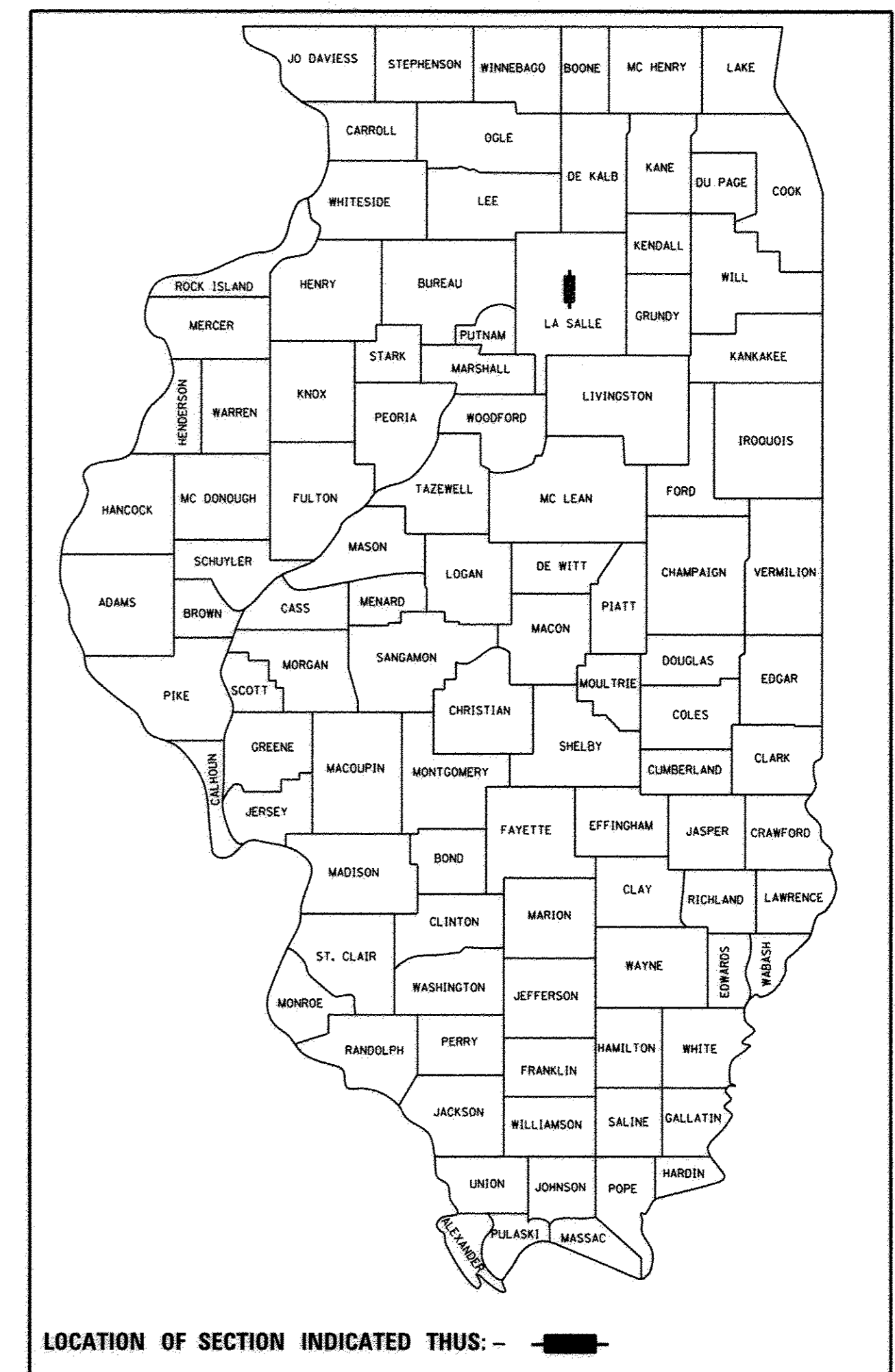


C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	1
WHA# 1018D16		CONTRACT NO. 87648		
ILLINOIS FED. AID PROJECT RS-0099(062)				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PLAN FOR PROPOSED
FEDERAL AID PROJECT
SURFACE TRANSPORTATION
RURAL**

**COUNTY HIGHWAY ROUTE 42 (TERRA COTTA ROAD)
WIDENING AND RESURFACING
SECTION 15-00348-00-WR
PROJECT NO. RS-0099(062)
LASALLE COUNTY**

C-93-049-16



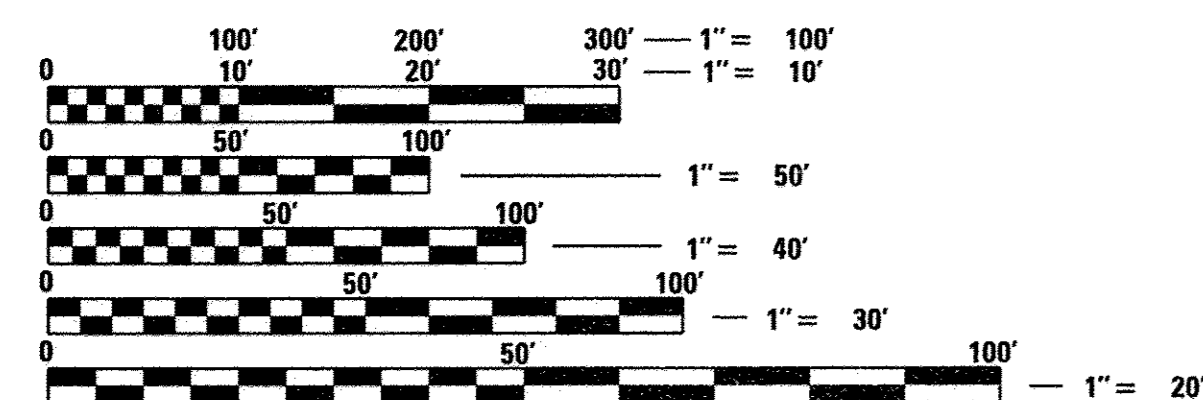
INDEX OF SHEETS:

- 1 COVER SHEET
- 2 GENERAL NOTES AND PROJECT CONTROL
- 3 SUMMARY OF QUANTITIES
- 4-6 TYPICAL SECTIONS
- 7 GABION DETAILS
- 8 INLETS, SPECIAL & INLETS, SPECIAL NO. 1 DETAILS
- 9 SLOPE WALL 6 INCH & TYPICAL ENTRANCE DETAILS
- 10-15 SCHEDULE OF QUANTITIES
- 16-26 PLAN AND PROFILE
- 27-32 EROSION CONTROL PLAN
- 33-34 CULVERT HEADWALL DETAILS - STA. 16+14.76
- 35 EAST SPECIAL CURB & GUTTER DETAILS STATION 16+14.76
- 36 WEST SPECIAL CURB & GUTTER DETAILS STATION 16+14.76
- 37 CULVERT HEADWALL AND SPECIAL CURB & GUTTER DETAILS STATION 16+14.76
- 38 EXISTING PLAN DETAILS STATION 16+14.76
- 39-40 SPECIAL CURB & GUTTER DETAILS STATION 19+54.95
- 41 EXISTING PLAN DETAILS STATION 19+54.95
- 42 CULVERT DETAILS STATION 38+15.00
- 43 CULVERT DETAILS STATION 52+19.00
- 44 STEEL RAILING, TYPE T-1 STATION 52+19.00
- 45-98 CROSS SECTIONS

STANDARDS:

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 606001-06 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 606006-03 OUTLETS FOR CONCRETE CURB & GUTTER TYPE B-6.24 (B-15.60)
- 630001-11 STEEL PLATE BEAM GUARDRAIL
- 630106-02 LONG-SPAN GUARDRAIL OVER CULVERT
- 630301-07 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 701901-06 TRAFFIC CONTROL DEVICES
- 725001-01 OBJECT AND TERMINAL MARKERS
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- 782006 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
- BLR 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
- BLR 22-7 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

**FOR LIST OF UTILITIES
SEE SHEET NO. 2**



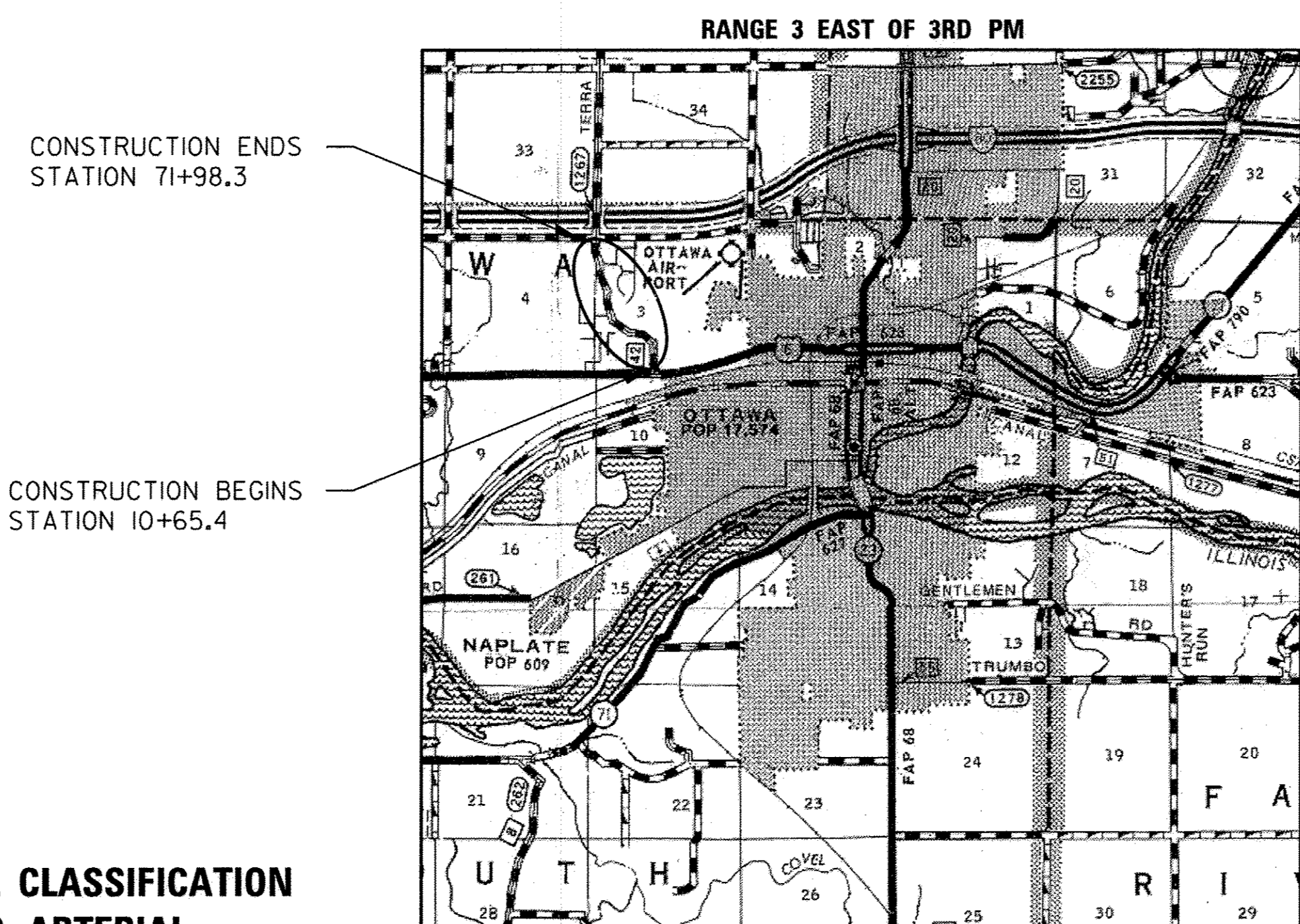
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

**PROJECT ENGINEER - MAH
PROJECT MANAGER - GFS**

CONTRACT NO. 87648

**FUNCTIONAL CLASSIFICATION
MINOR ARTERIAL
DESIGN SPEED 35 MPH
2017 ADT = 1,300
3R GUIDELINES**

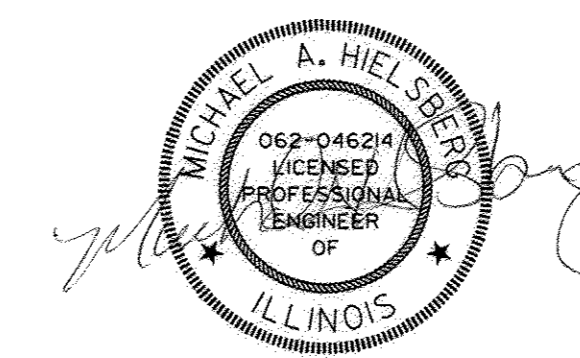


GROSS LENGTH = 6,132.9 FT = 1.162 MILE
NET LENGTH = 6,132.9 FT = 1.162 MILE



LASALLE COUNTY HIGHWAY DEPARTMENT		
APPROVED	<i>Christina G. Kamin</i> 2-26-2017	2017
LASALLE COUNTY ENGINEER		
PASSED	<i>David B. ...</i> 3-17-2017	2017
DISTRICT 3 LOCAL ROADS AND STREETS ENGINEER		
RELEASING FOR BID BASED ON LIMITED REVIEW	<i>Karin ...</i> 3-17-2017	2017
REGION 2 ENGINEER		

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**



DATE: 2/23/2017
MICHAEL A. HIELSBERG, P.E.
REGISTERED PROFESSIONAL ENGINEER
IN ILLINOIS, NO. 062-046214
LIC. EXPIRES 11/30/2017

**WILLETT HOFMANN
& ASSOCIATES INC**
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T. 815-284-3381 DESIGN FIRM: #184-000918

GENERAL NOTES

THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED APRIL 1, 2016 BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL GOVERN THE CONSTRUCTION OF THE IMPROVEMENTS.

THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY THE COUNTY. THE CONSTRUCTION DETAILS, AS PRESENTED ON THESE PLANS MUST BE FOLLOWED BY THE CONTRACTOR; IMPROVEMENT REPRESENTATIONS AS SHOWN ARE AS ACCURATE AS POSSIBLE FROM THE INFORMATION AVAILABLE. HOWEVER, SOME FIELD REVISIONS MAY BE REQUIRED TO ACCOMMODATE UNFORESEEN CIRCUMSTANCES. THE ENGINEER SHALL BE ADVISED OF ANY NECESSARY REVISIONS WITH SUFFICIENT LEAD TIME ALLOWED TO PROPERLY CONSIDER AND ACT UPON SAID REQUESTS. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED IN CONSTRUCTING THOSE IMPROVEMENTS AS DETAILED IN THIS ENGINEERING PLAN. EXTREME CAUTION MUST BE EXERCISED REGARDING THE COMPACTION OF ALL UTILITY TRENCHES.

THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKS, SECTION OR SUBSECTION MONUMENTS ENCOUNTERED, UNTIL AN OWNER OR AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. ANY PROPERTY MARKS, SECTION OR SUBSECTION MONUMENTS UNLESS REFERENCED, DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

THE CONTRACTOR SHALL COOPERATE WITH THE COUNT AND ADJACENT LANDOWNERS WITH REGARDS TO ACCESS TO PRIVATE PROPERTY, AS WELL AS THE U.S. POSTAL SERVICE FOR MAIL DELIVERY.

THE LOCATION AND ELEVATION OF UNDERGROUND UTILITIES, FIELD TILES, OR PRIVATE UTILITIES AS SHOWN ON THE PLANS ARE NOT TO BE TAKEN AS EXACT. THE CONTRACTOR SHALL VERIFY AND LOCATE ALL EXISTING UTILITIES ON OR ADJACENT TO THE SITE. PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES, CONTACT J.U.L.I.E. AT 1-800-892-0123 AND THE COUNTY FOR EXACT FIELD LOCATION OF UTILITIES. THE CONTRACTOR SHALL USE SPECIAL CARE WHEN CONDUCTING CONSTRUCTION OPERATIONS NEAR THEM TO PREVENT DAMAGE. DAMAGE, AND THE COST TO REPAIR SAID DAMAGE, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

THE UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS INCLUDE:

CORN BELT ENERGY CORP.
ATTN: IAN CARDOSI
1702 W. PERU STREET
PRINCETON, IL 61356
(815) 875-1885 EXT. 304

AT&T/DISTRIBUTION
ATTN: JOSEPH HONKISCZ
1000 COMMERCE DRIVE
OAK BROOK, IL 60523
(815) 727-0479

MEDIACOM LLC
ATTN: ROBERT BROWN
808 E. NORTH STREET
ELBURN, IL 60119
(815) 673-6829

AMEREN ILLINOIS
ATTN: JOHN LEWIS
340 RACCUGLIA DRIVE
LASALLE, IL 61301
(815) 224-6275

AGL RESOURCES
(FORMERLY NICOR)
ATTN: TOM BOYER
1844 FERRY ROAD
NAPERVILLE, IL 60563
(815) 262-0559

LASALLE COUNTY HIGHWAY DEPT.
ATTN: VIC WASHELESKY, P.E.
1400 N. 27TH ROAD
OTTAWA, IL 61350
(815) 434-0743

EXISTING TRAFFIC SIGNS THAT ARE WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED BY THE CONTRACTOR. COST OF REMOVAL TO BE INCLUDED IN THE CONTRACT UNIT PRICE BID PER CUBIC YARD FOR EARTH EXCAVATION (SPECIAL). ALL SIGNS SHALL REMAIN PROPERTY OF THE LASALLE COUNTY HIGHWAY DEPARTMENT. FINAL SIGN INSTALLATION SHALL BE DONE BY THE LASALLE COUNTY HIGHWAY DEPARTMENT.

SAW CUTTING AS STATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER, SHALL RESULT IN A NEAT, STRAIGHT LINE WITH NO DAMAGE TO THE EXISTING SURFACE. ANY DAMAGE TO THE EXISTING SURFACE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. METHOD OF REPAIR SHALL BE APPROVED BY THE ENGINEER. COST FOR SAW CUTTING SHALL BE INCIDENTAL TO THE CONTRACT.

THE FINAL TOP FOUR (4) INCHES OF SOIL PLACED IN ANY AREA DISTURBED BY THE CONTRACTOR MUST BE A COHESIVE SOIL CAPABLE OF SUPPORTING VEGETATION AND SHALL BE APPROVED BY THE ENGINEER.

ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTHMOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.

THE FOLLOWING ITEMS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT:

1. RELOCATION AND INSTALLATION OF EXISTING MAILBOXES DURING CONSTRUCTION AND FINAL INSTALLATION OF MAILBOXES AFTER CONSTRUCTION. ANY MAILBOXES DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

HORIZONTAL CONTROL

PT. #	STA.	N	E	EL.	DESCRIPTION
1	36.8' RT. OF STA. 12+79.08	1707826.77	837687.37	502.20	5/8" I.P. SET
2	50.4' RT. OF STA. 21+07.46	1708666.85	837609.15	516.19	5/8" I.P. SET
3	22.3' LT. OF STA. 26+06.46	1708869.18	837142.59	521.51	5/8" I.P. SET
4	25.7' LT. OF STA. 29+13.28	1708922.29	836839.31	526.64	5/8" I.P. SET
5	26.1' LT. OF STA. 34+38.22	1709177.15	836372.41	532.73	5/8" I.P. SET
6	26.0' LT. OF STA. 37+74.19	1709463.27	836180.85	538.26	5/8" I.P. SET
7	20.1' LT. OF STA. 43+11.66	1709981.52	836038.28	546.88	5/8" I.P. SET
8	19.4' RT. OF STA. 48+80.06	1710548.62	835981.14	557.52	5/8" I.P. SET
9	19.7' LT. OF STA. 53+52.37	1710979.96	835780.42	570.83	5/8" I.P. SET
10	47.7' RT. OF STA. 57+59.04	1711402.76	835792.13	580.04	5/8" I.P. SET
11	46.7' LT. OF STA. 60+69.92	1711671.44	835601.84	602.20	5/8" I.P. SET
12	33.2' RT. OF STA. 69+44.73	1712545.71	835702.05	632.62	PK NAIL
13	25.4' LT. OF STA. 15+26.82	1708074.99	837627.07	504.72	5/8" I.P. SET

BENCHMARKS

BM #	STA.	DESCRIPTION	ELEV.
1	31' LT. STA. 13+28	R.R. SPIKE IN P.P.	501.27
2	17' RT. STA. 16+51	CHIS "□" NE CORNER HEADWALL	508.94
3	32' RT. STA. 22+78	R.R. SPIKE IN P.P.	520.45
4	33' RT. STA. 26+17	SURVEY NAIL IN P.P.	524.89
5	19' RT. STA. 28+85	SURVEY NAIL IN P.P.	527.84
6	22' LT. STA. 32+42	SURVEY NAIL IN P.P.	531.51
7	30' LT. STA. 36+35	SURVEY NAIL IN P.P.	535.95
8	28' RT. STA. 40+52	SURVEY NAIL IN P.P.	543.61
9	24' LT. STA. 44+79	SURVEY NAIL IN P.P.	551.75
10	28' RT. STA. 47+30	SURVEY NAIL IN P.P.	554.61
11	31' RT. STA. 51+14	SURVEY NAIL IN P.P.	562.93
12	32' RT. STA. 56+57	SURVEY NAIL IN P.P.	573.88
13	22' LT. STA. 61+12	R.R. SPIKE IN P.P.	601.29
14	49' RT. STA. 63+80	SURVEY NAIL IN P.P.	611.19

PAVEMENT STRUCTURAL DESIGN

STRUCTURAL DESIGN TRAFFIC (S.D.T.) = YEAR 2027
 CLASS III ROAD
 80,000# TRUCK DESIGN

P.V. 1,468
 S.U. 132
 M.U. 50 } 1,650 ADT

E_{RI} = 2 KSI (POOR SUBGRADE)
 TF = 0.34
 HMA MIX TEMP. = 79.5
 HMA E_{AC} = 560
 HMA DESIGN STRAIN = 200

WIDENING AREAS USE:

- 1 1/2" Hot-Mix Asphalt Surface Course, Mix "C", N50
- 1 1/2" Hot-Mix Asphalt Binder Course, IL-19.0, N50
- 6 1/2" Hot-Mix Asphalt Base Course
- 4" Sub-Grade Granular Material, Type A

OVERLAY USE:

- 1 1/2" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
- 1 1/2" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50
- *2* LEVELING BINDER (MACHINE METHOD), N50

SEE SECTION 44-3.03(b) OF THE LOCAL ROADS AND STREETS MANUAL

HMA MIXTURE TABLE

	HMA BASE COURSE	HMA LEVEL BINDER	HMA BINDER	HMA SURFACE	INCIDENTAL HMA	HMA PATCHES
PG GRADE	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 19.0	IL 9.5 FG	IL 19.0	IL 9.5	IL 9.5	IL 19.0
FRICITION AGGREGATE				MIXTURE C	MIXTURE C	
DENSITY TEST METHOD	CORES	CORES/NUCLEAR	CORES	LR 1030 GROWTH CURVE	SATISFACTION OF ENGINEER	CORES
MIXTURE WEIGHT:	112 LBS/SY/IN	112 LBS/SY/IN	112 LBS/SY/IN	112 LBS/SY/IN	112 LBS/SY/IN	112 LBS/SY/IN
QUALITY MANAGEMENT PROGRAM	QC/OA	QC/OA	QC/OA	QC/OA	QC/OA	QC/OA

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REVISION	DATE	BY	REMARKS

DRAWN	L.G.N.
CHECKED	G.F.S.
APPROVED	M.A.H.

LASALLE COUNTY
 TERRA COTTA RD. (C.H. 42)
 2017



GENERAL NOTES AND PROJECT CONTROL

SHEET NO. 1 OF 1 SHEETS

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	2
WHA# 1018D16		CONTRACT NO. 87648		
ILLINOIS FED. AID PROJECT RS-00990621				

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SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	300
20400800	FURNISHED EXCAVATION	CU YD	576
20800150	TRENCH BACKFILL	CU YD	229
20700220	POROUS GRANULAR EMBANKMENT	CU YD	125
25100630	EROSION CONTROL BLANKET	SQ YD	14,472
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	598
28000305	TEMPORARY DITCH CHECKS	FOOT	360
28000400	PERIMETER EROSION BARRIER	FOOT	3,969
28000500	INLET AND PIPE PROTECTION	EACH	38
28100107	STONE RIPRAP, CLASS A4	SQ YD	1,195
28200200	FILTER FABRIC	SQ YD	1,195
28400100	GABIONS	CU YD	1,103
31100100	SUBBASE GRANULAR MATERIAL, TYPE A	TON	2,798
31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	615
35101400	AGGREGATE BASE COURSE, TYPE B	TON	722
35600702	HOT-MIX ASPHALT BASE COURSE WIDENING, 6 1/2"	SQ YD	5,558
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	13,975
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	9,761
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	918
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	1,920
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	1,920
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	110
42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SQ YD	73
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	2,935
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	551
44201729	CLASS D PATCHES, TYPE II, 7 INCH	SQ YD	113
44201733	CLASS D PATCHES, TYPE III, 7 INCH	SQ YD	64
44201735	CLASS D PATCHES, TYPE IV, 7 INCH	SQ YD	27
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	706
50100100*	REMOVAL OF EXISTING STRUCTURES	EACH	1
50102400	CONCRETE REMOVAL	CU YD	2.4
50105220	PIPE CULVERT REMOVAL	FOOT	360
50300225	CONCRETE STRUCTURES	CU YD	22.9
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	28,360
Δ 50900305	STEEL RAILING, TYPE T1	FOOT	26
54003000	CONCRETE BOX CULVERTS	CU YD	153.7
51100300*	SLOPE WALL 6 INCH	SQ YD	27

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
542D0220*	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	175
542D0223*	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	35
542D5473*	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 18"	FOOT	105
550B0050*	STORM SEWERS, CLASS B, TYPE 1 12"	FOOT	536
550B0070*	STORM SEWERS, CLASS B, TYPE 1 15"	FOOT	257
550B0090*	STORM SEWERS, CLASS B, TYPE 1 18"	FOOT	574
550B0120*	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	44
550B0140*	STORM SEWERS, CLASS A, TYPE 1 30"	FOOT	130
60255500	MANHOLES TO BE ADJUSTED	EACH	1
60260100	INLETS TO BE ADJUSTED	EACH	2
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	15.5
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	73
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	10,010
Δ 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	187.5
Δ 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	525
Δ 63000360	LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN	FOOT	44
Δ 63000370	LONG-SPAN GUARDRAIL OVER CULVERT, 25 FT SPAN	FOOT	100
Δ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2
Δ 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	6
Δ 63200310	GUARDRAIL REMOVAL	FOOT	1,473
67100100	MOBILIZATION	L SUM	1
Δ 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	8
Δ 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	13,926
Δ 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	10,167
Δ 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	130
Δ 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	24
X0322128*	MEMBRANE WATERPROOFING FOR BURIED STRUCTURES	SQ YD	150
X2020410*	EARTH EXCAVATION (SPECIAL)	CU YD	3,033
X2501000*	SEEDING, CLASS 2 (SPECIAL)	ACRE	2.99
X4401198*	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	1,708
X5015225*	PIPE CULVERT REMOVAL (SPECIAL)	FOOT	132
X6024240*	INLETS, SPECIAL	EACH	29
X6024242*	INLETS, SPECIAL, NO. 1	EACH	3
X6024244	INLETS, SPECIAL, NO. 2	EACH	1
X7010216*	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
Z0013798*	CONSTRUCTION LAYOUT	L SUM	1
Z0041500*	PLUG EXISTING CULVERTS	EACH	9


* SEE SPECIAL PROVISIONS
 Δ SPECIALTY ITEMS

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REVISION	DATE	BY	REMARKS

DRAWN	T.B.S.
CHECKED	L.G.N.
APPROVED	M.A.H.

LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
2017

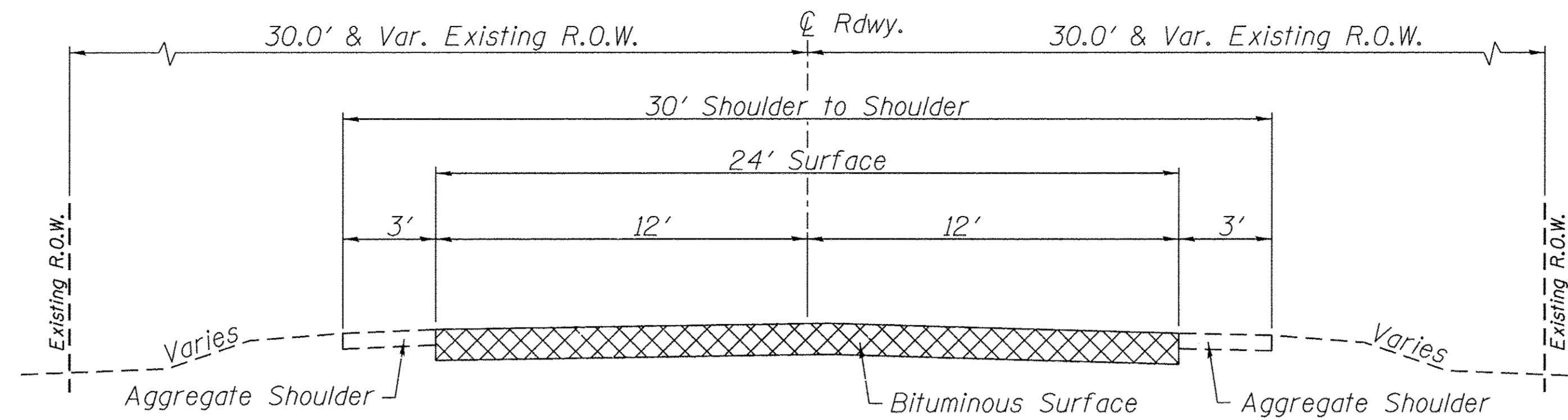


WILLET HOFMANN & ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T: 815-284-3381 DESIGN FIRM: #184-00918

SUMMARY OF QUANTITIES
SHEET NO. 1 OF 1 SHEETS

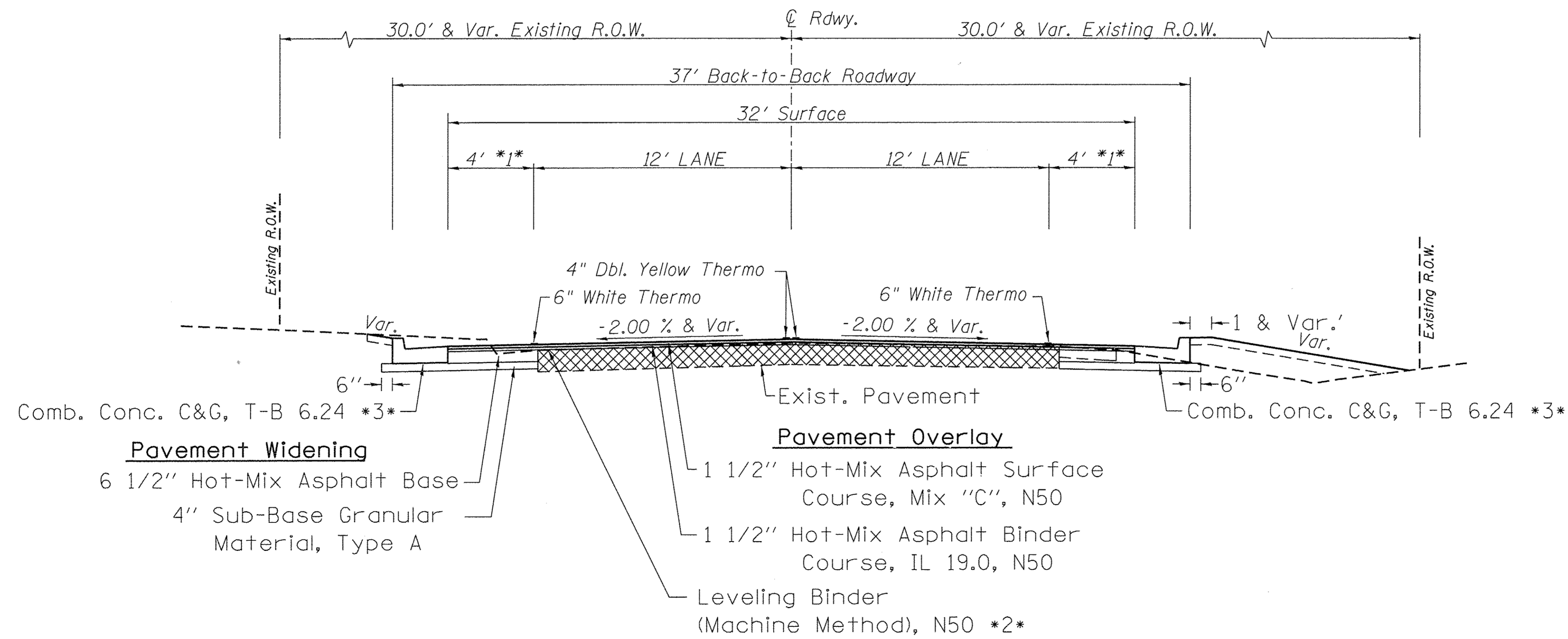
C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	3
WHA# 1018D16		CONTRACT NO. 87648		
ILLINOIS FED. AID PROJECT RS-0099062				

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EXISTING TYPICAL SECTION

Terra Cotta Road (C.H. 42)
 STA. 10+65.40 TO STA. 72+00.00



- *Note 1*
 Widening from 2" Inside Existing E.O.P. to inside of C&G.
 Min. width = 1.0'
- *Note 2*
 See Roadway Schedules Sheets for Depths and Locations of Leveling Binder (Machine Method), N50
- *Note 3*
 Sta. 10+65.40 - Sta. 62+11.00

PROPOSED TYPICAL SECTION

TERRA COTTA ROAD (LOOKING NORTH)

Normal Crown Stations
 STA. 10+65.40 TO STA. 17+27.28
 STA. 38+07.17 TO STA. 43+01.76
 STA. 48+83.85 TO STA. 51+10.49
 STA. 61+29.14 TO STA. 62+00.00

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REVISION	DATE	BY	REMARKS

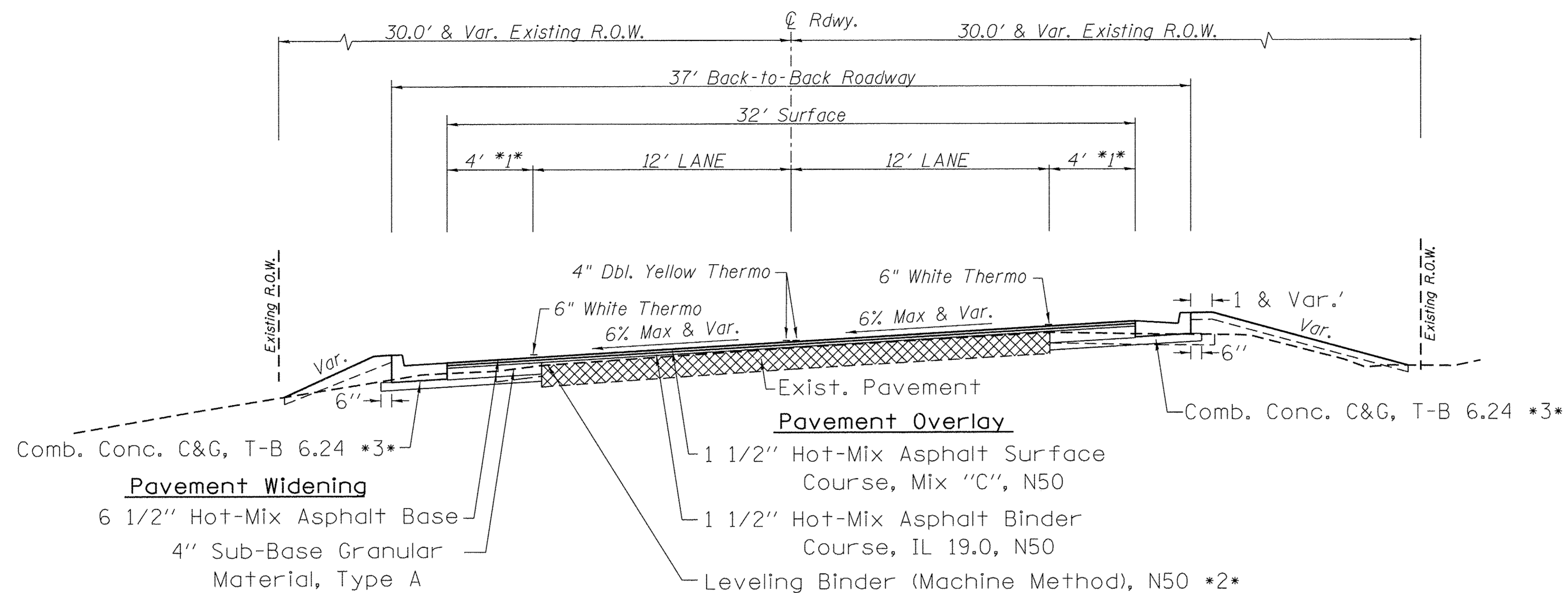
DRAWN	M.P.O.
CHECKED	G.F.S.
APPROVED	M.A.H.

LASALLE COUNTY
 TERRA COTTA RD. (C.H. 42)
 2017

TYPICAL SECTIONS	
SHEET NO. 1 OF 3 SHEETS	

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	4
WHA# 1018D16		CONTRACT NO. 87648		
ILLINOIS FED. AID PROJECT RS-0099062				

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Note 1
Widening from 2" Inside Existing E.O.P. to inside of C&G. Min. width = 1.0'

Note 2
See Roadway Schedules Sheets for Depths and Locations of Leveling Binder (Machine Method), N50

Note 3
Sta. 10+65.40 - Sta. 62+11.00

SUPERELEVATION SCHEDULE

Curve	PC Sta.	PI Sta.	PT Sta.	S.E.	Trans. Length		Normal Crown	TR	Reverse Crown	Full Super	Full Super	Reverse Crown	TR	Normal Crown	Reverse Curve - 0%	Trans. Super
					L ₁ (Ft.)	TR (Ft.)										
#1 - Lt.	18+24.03	20+63.28	22+63.82	6.0%	103	26	17+27.28	17+53.28	17+79.28	18+56.28						
#2 - Lt.	22+89.91	25+19.40	27+40.08	6.0%	103	26					27+07.83				27+79.69	
#3 - Rt.	27+98.04	28+99.41	29+98.88	2.0%	34	26				28+13.04						
#4 - Rt.	31+49.54	32+83.48	34+16.48	2.0%	34	26					34+01.48					34+47.37
#5 - Rt.	34+69.51	36+07.37	37+35.92	4.0%	69	26				34+93.26	37+12.17	37+55.17	37+81.17	38+07.17		
#6 - Rt.	43+72.51	44+73.66	45+72.92	4.0%	69	26	43+01.26	43+27.26	43+53.26	43+96.26	45+49.17				46+01.03	
#7 - Lt.	46+29.14	47+22.51	48+12.60	4.0%	69	26				46+52.89	47+88.85	48+31.85	48+57.85	48+83.85		
#8 - Rt.	51+81.74	53+10.49	54+35.64	4.0%	69	26	51+10.49	51+36.49	51+62.49	52+05.49	54+11.89				54+92.14	
#9 - Lt.	55+48.64	56+65.19	57+76.93	4.0%	69	26				55+72.39	57+53.18				58+32.82	
#10 - Rt.	58+68.10	59+78.57	60+84.14	2.0%	34	26				58+83.10	60+69.14	60+77.14	61+03.14	61+29.14		

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REVISION	DATE	BY	REMARKS

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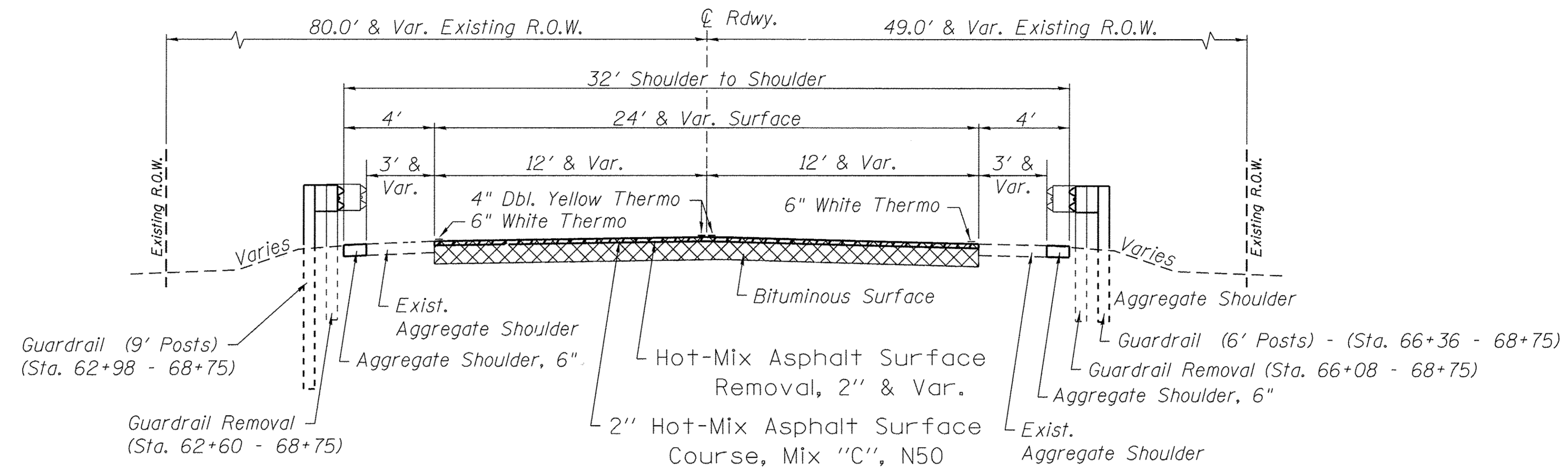
LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
2017



TYPICAL SECTIONS
SHEET NO. 2 OF 3 SHEETS

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	5
WHA# 1018D16		CONTRACT NO. 87648		
ILLINOIS FED. AID PROJECT R5-00990621				

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PROPOSED TYPICAL SECTION

Terra Cotta Road (C.H. 42)
 STA. 62+00 TO STA. 71+98.30

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 TERRA COTTA RD. (C.H. 42)
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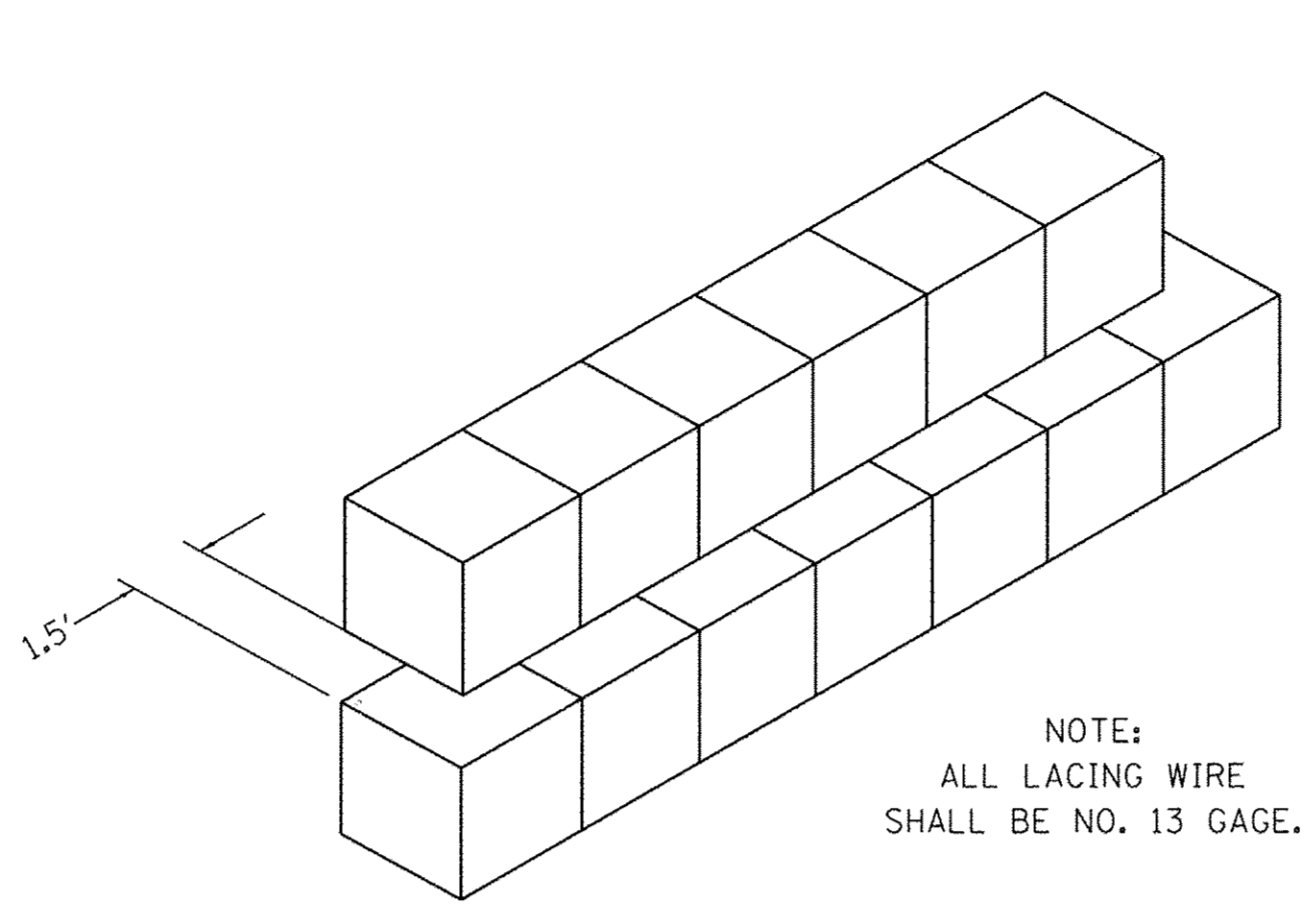
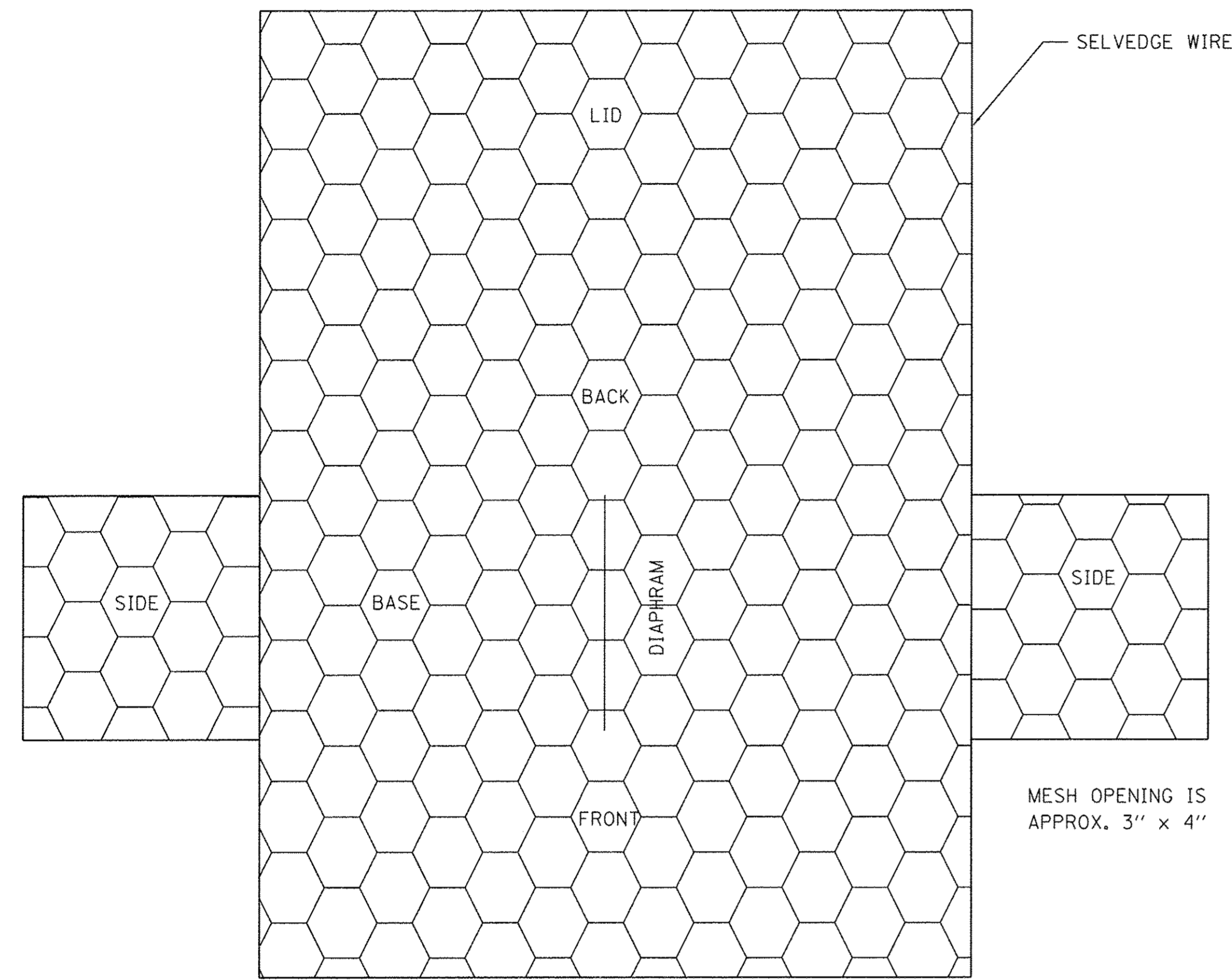
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TYPICAL SECTIONS	
SHEET NO. 3 OF 3 SHEETS	

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	6
WHA# 1018D16		CONTRACT NO. 87648		
ILLINOIS FED. AID PROJECT RS-00991062				

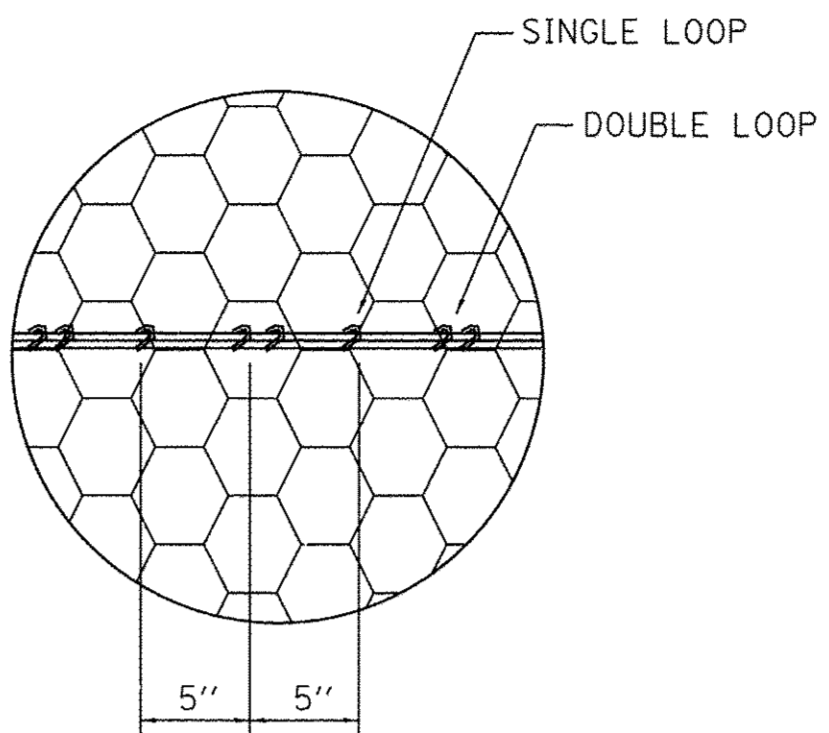
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TYPICAL GABION DETAIL



RETAINING WALL LACING DETAIL

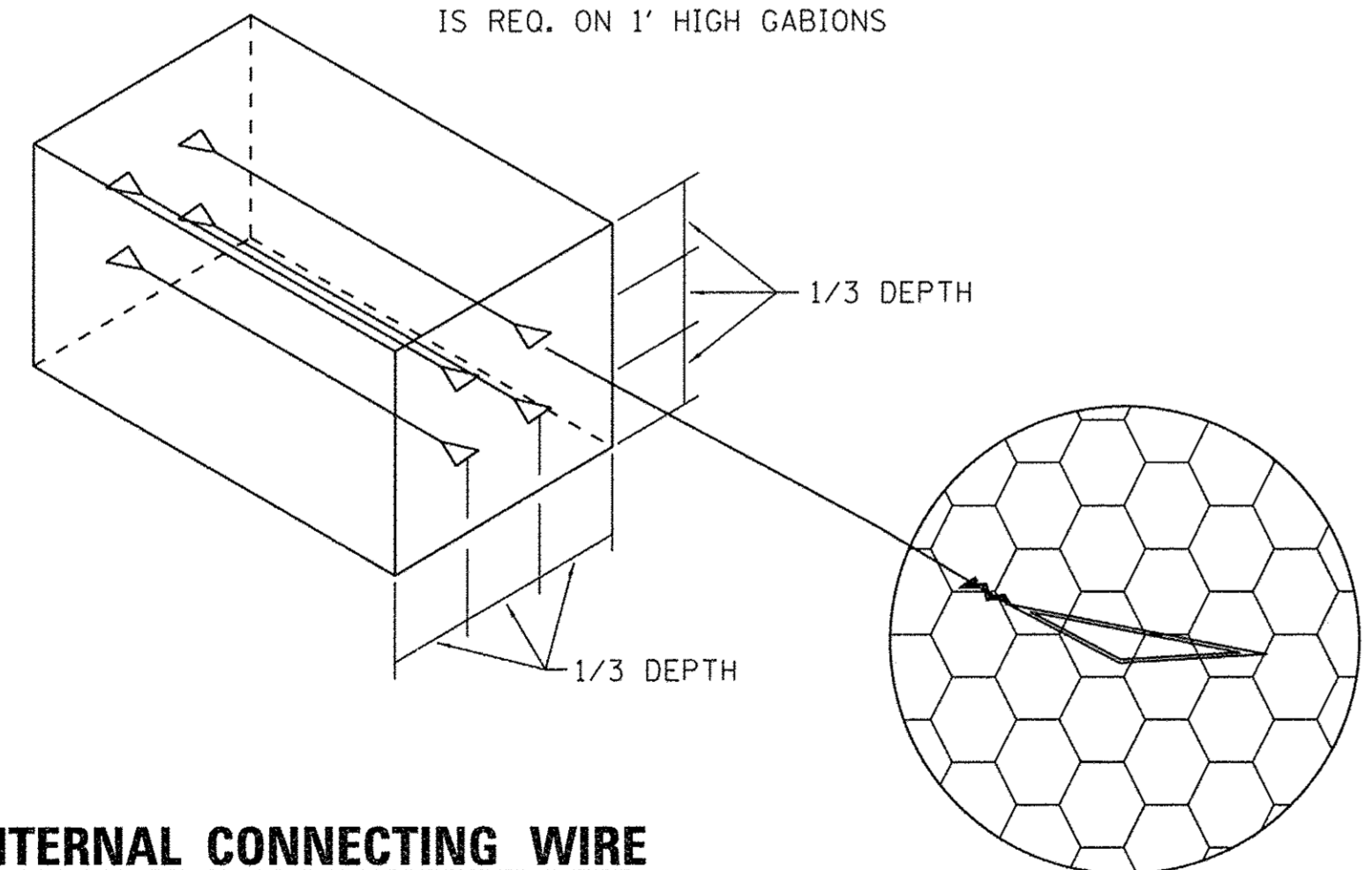
NOTE:
ALL LACING WIRE
SHALL BE NO. 13 GAGE.



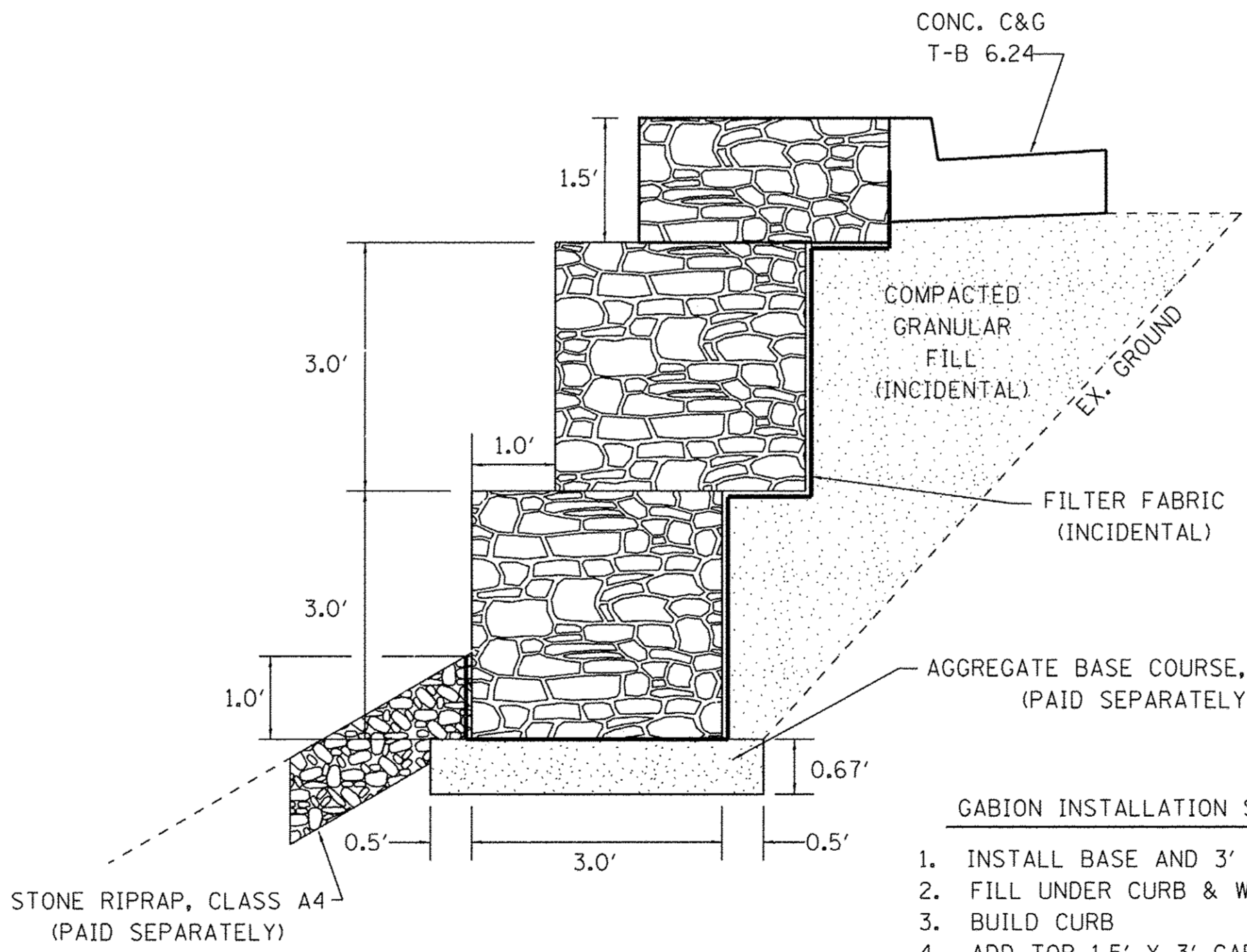
GENERAL NOTES

1. ALL GABIONS ARE SUPPLIED FOLDED FLAT AS SHOWN ON THE TYPICAL SECTIONS AT THE LEFT
2. GABIONS SHALL BE ASSEMBLED BY FOLDING AND WIRING THE EDGES TOGETHER, THE FRONT PANEL EXTENSIONS OF SELVEDGE WIRE SHALL BE BENT AND LOOPED TWICE ALONG THE SELVEDGE WIRE OF THE TOP END PANELS, THE END PANEL EXTENSIONS SHALL BE LOOPED ALONG THE SELVEDGE TOP OF THE FRONT PANEL, ALL EDGES SHALL BE WIRED TOGETHER.
3. GABIONS SHALL BE FILLED IN ONE (1) FOOT INCREMENTS, TWO CONNECTING WIRES SHALL BE PLACED AND LOOPED AROUND TWO MESHES OF THE GABION WALL BETWEEN INCREMENTS OF FILLS, THIS OPERATION SHALL BE REPEATED UNTIL THE GABION IS FILLED.
4. ADJOINING GABIONS SHALL BE WIRED TOGETHER BY THEIR VERTICAL EDGES; EMPTY GABIONS STACKED ON FILLED GABIONS SHALL BE LACED TO THE FILLED GABIONS AT THE FRONT, SIDE, AND BACK.
5. AFTER THE GABION IS FILLED, THE TOP SHALL BE FOLDED SHUT AND WIRED TO THE ENDS, SIDES, AND DIAPHRAMS. LACING ADJACENT LIDS TO THE VERTICAL PANELS IN ONE OPERATION WILL BE ACCEPTABLE PROVIDED THAT THE "TWO, ONE, TWO LOOP" LACING PROCEDURE IS STRICTLY FOLLOWED.
6. ALL SELVEDGE WIRES OF ENDS OF ADJACENT BASKETS SHALL BE LACED TOGETHER TIGHTLY.

NOTE:
NO INTERNAL CONNECTING WIRE
IS REQ. ON 1' HIGH GABIONS



**INTERNAL CONNECTING WIRE
DETAIL**



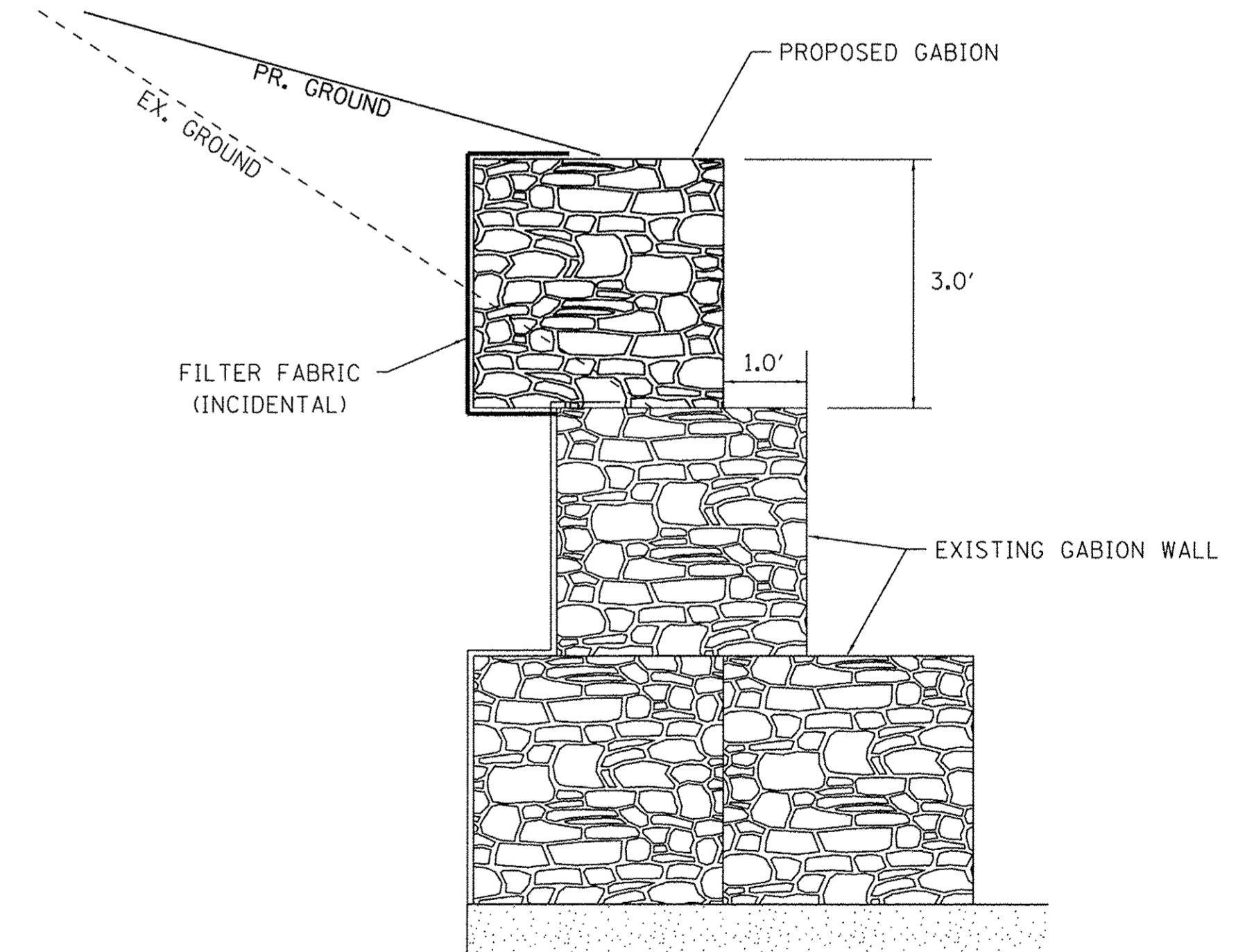
GABION INSTALLATION SEQUENCE:

1. INSTALL BASE AND 3' X 3' GABIONS
2. FILL UNDER CURB & WIDENING
3. BUILD CURB
4. ADD TOP 1.5' X 3' GABION & INSTALL RIPRAP

NOTE: SEE CROSS SECTIONS FOR WALL HEIGHT

LT. STA. 29+88 TO 57+40.5

NOTE: SEE PLAN FOR STA. LOCATIONS



RT. STA. 16+67 TO 19+12

GABION WALL DETAILS

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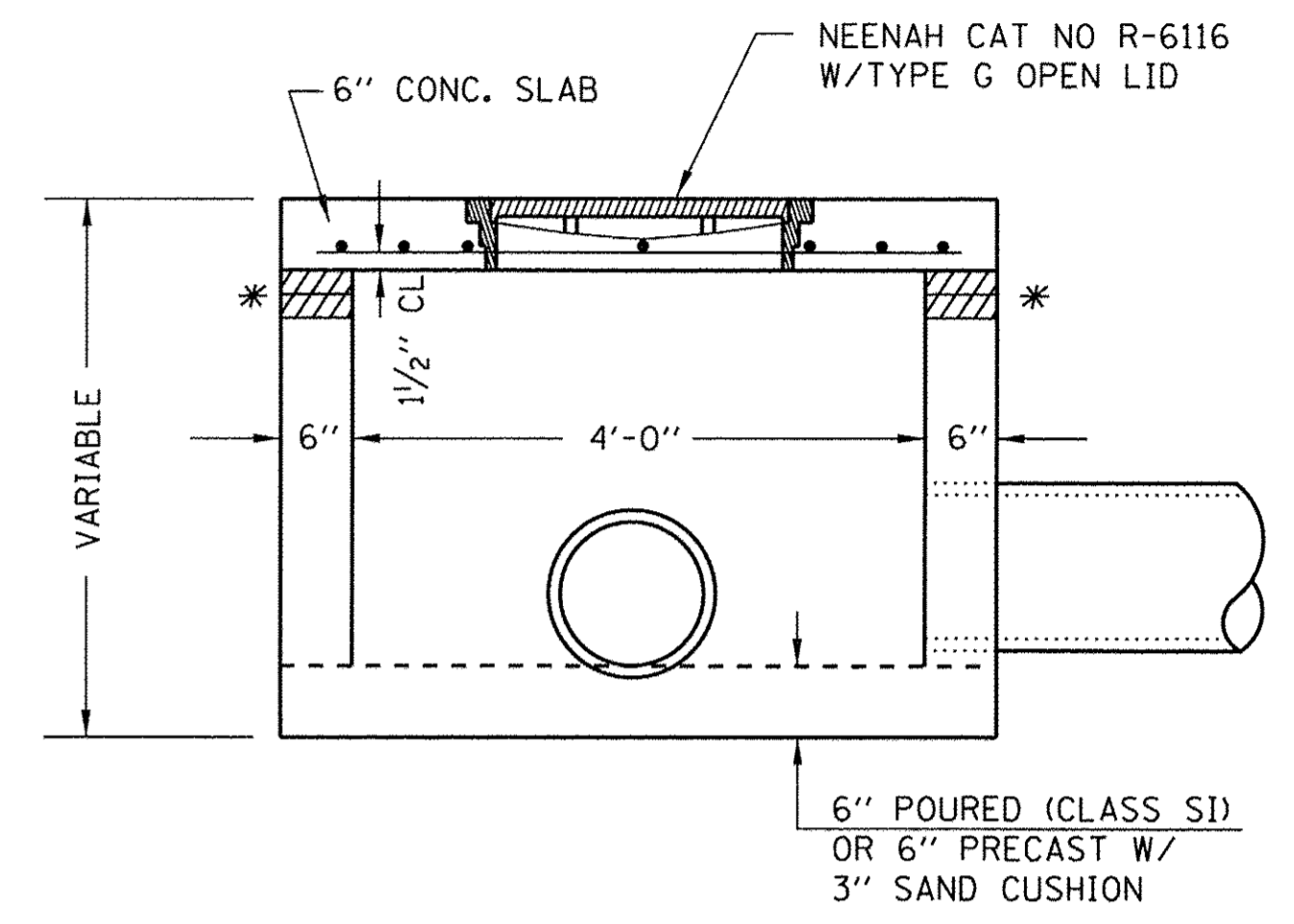
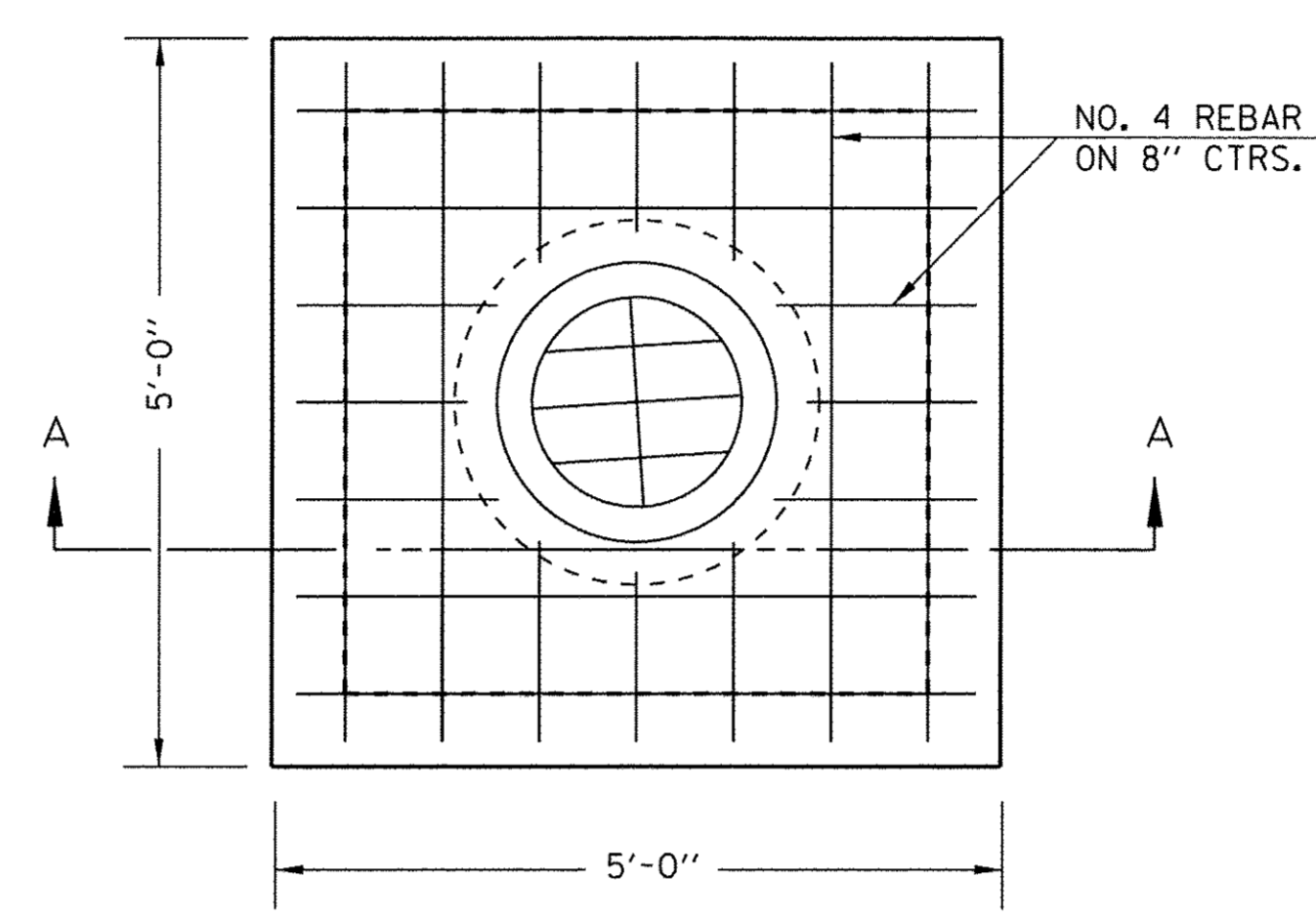
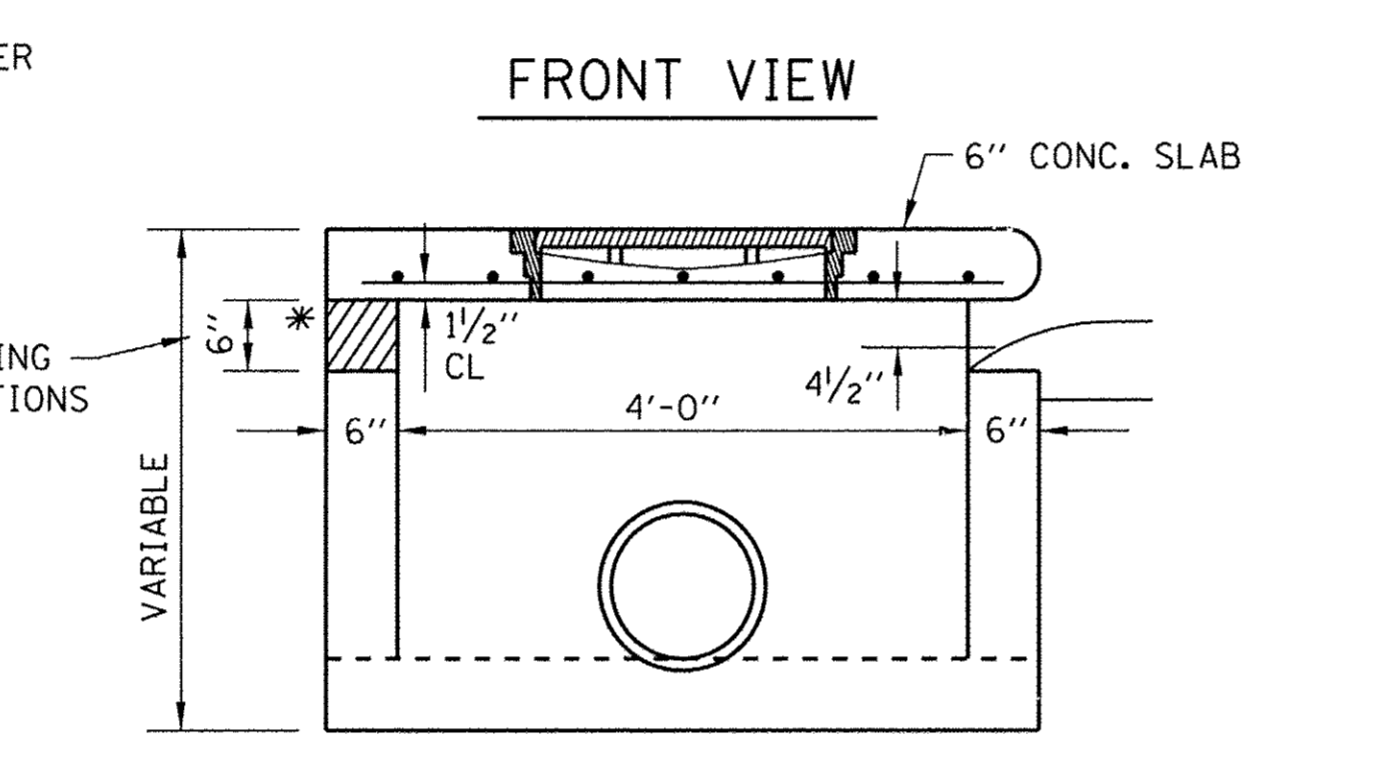
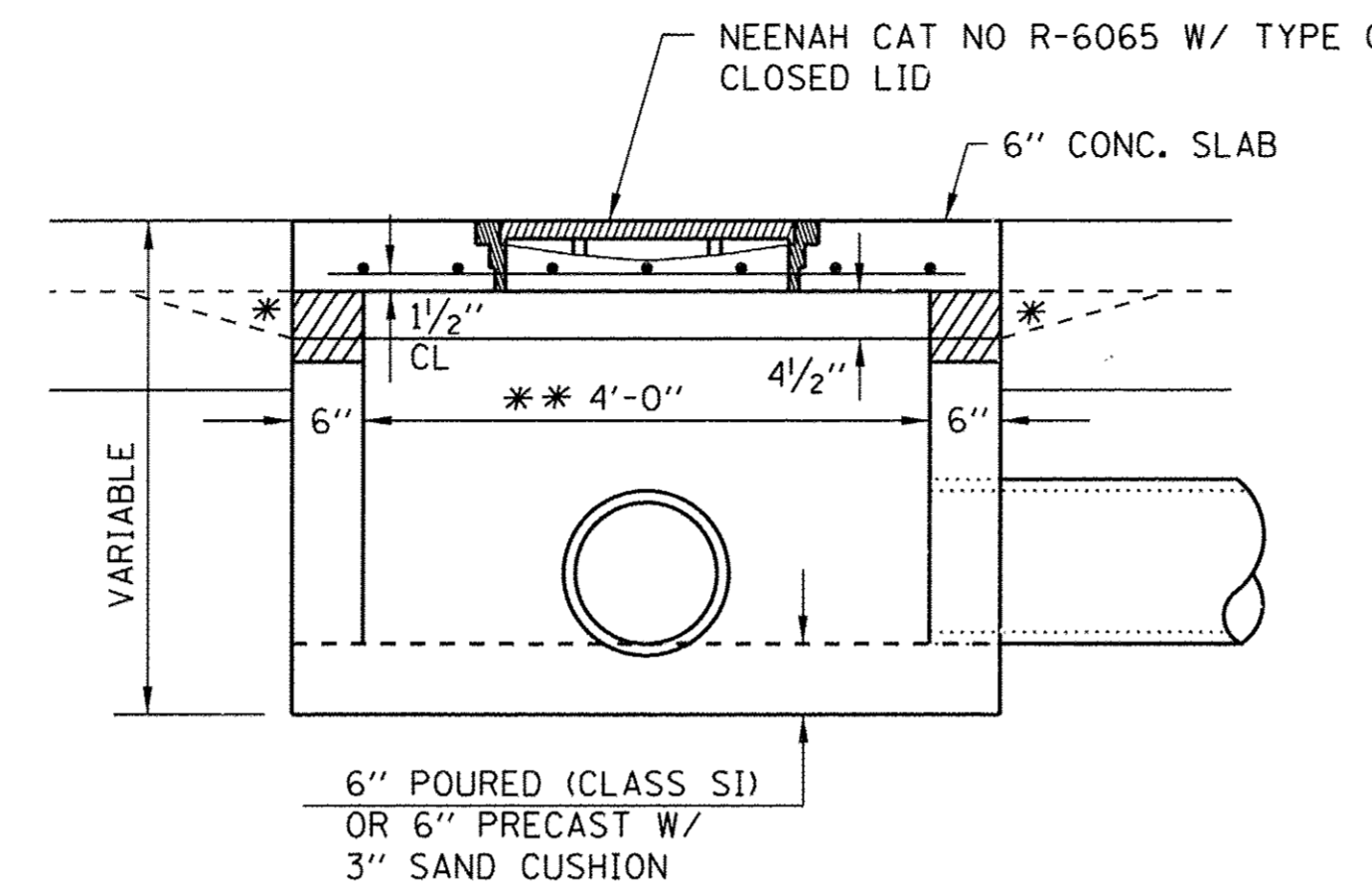
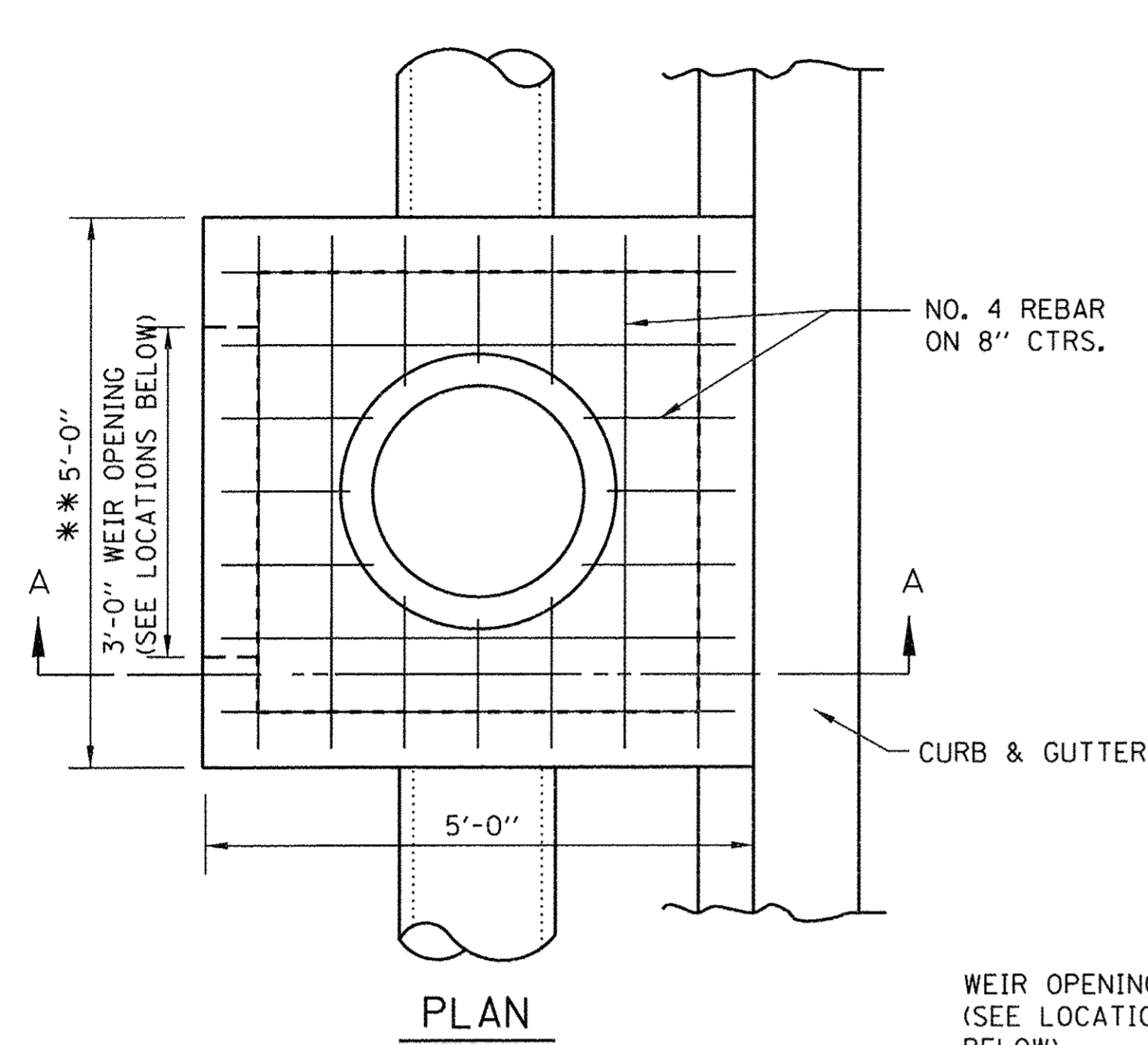
LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
2017

GABION DETAILS

SHEET NO. 1 OF 1 SHEETS

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	7
WHA# 1018D16			CONTRACT NO. 87648	
ILLINOIS FED. AID PROJECT RS-0099062				

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NOTES:

- SEE PLANS FOR PIPE SIZE AND LOCATIONS.
- THE INLETS, SPECIAL SHALL BE CAST IN-PLACE OR PRECAST.
- EXCEPT AS NOTED HEREON INLETS, SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED APRIL 1, 2016 BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.
- THE CONTRACT UNIT PRICE EACH FOR INLETS, SPECIAL SHALL INCLUDE THE COST OF FURNISHING AND INSTALLING THE FRAME, LID, REINFORCEMENT BARS, FLOOR AND TOP SLABS.
- CURB AND GUTTER WILL BE PAID FOR SEPARATELY AND WILL BE MEASURED THROUGH THE INLET.
- CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT.
- THE SIDE WALL MAY BE BUILT AS PRECAST SEGMENTAL SECTIONS.
- THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 6" SHORT TO ALLOW FOR FIELD ADJUSTMENTS.
- * THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE.
- ** INLETS, SPECIAL NO. 2 - LT. STA. 55+00
4 FT. x 7 FT. INSIDE DIMENSION
5 FT. x 8 FT. OUTSIDE DIMENSION

INLETS W/WEIR OPENING

STATION	WEIR ELEVATION
RT. 30+00	528.70
RT. 38+15	538.40
RT. 40+25	541.78
RT. 42+25	545.40
RT. 44+00	548.96

NOTES:

- THE INLET SHALL BE CAST IN-PLACE OR PRECAST.
- EXCEPT AS NOTED HEREON INLET SPECIAL NO. 1 SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACT PRICE FOR INLET SPECIAL NO. 1 SHALL INCLUDE THE COST OF FURNISHING AND INSTALLING THE FRAME, LID, REINFORCEMENT BARS, FLOOR AND TOP SLABS.
- CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT.
- THE SIDE WALL MAY BE BUILT AS PRECAST SEGMENTAL SECTIONS.
- THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 6" SHORT TO ALLOW FOR FIELD ADJUSTMENTS.
- * THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE.

INLETS, SPECIAL NO. 1

INLETS, SPECIAL

**** INLETS, SPECIAL NO. 2**

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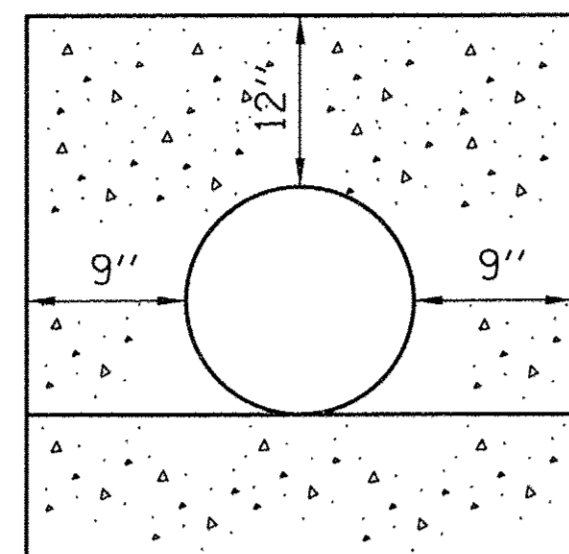
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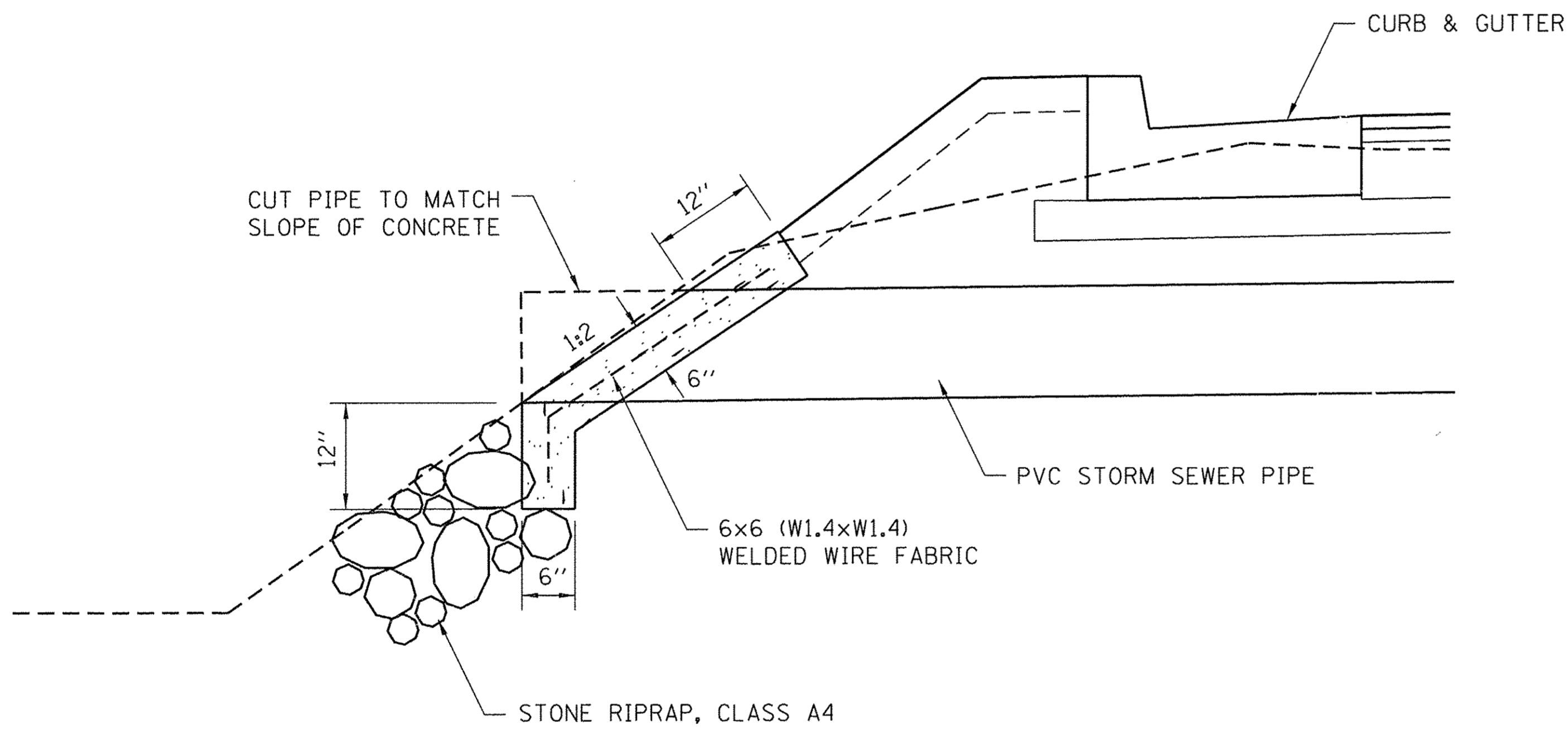
INLETS, SPECIAL & INLETS, SPECIAL NO. 1 DETAILS
SHEET NO. 1 OF 1 SHEETS

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	8
WHA# 1018D16			CONTRACT NO. 87648	
ILLINOIS FED. AID PROJECT RS-00990621				

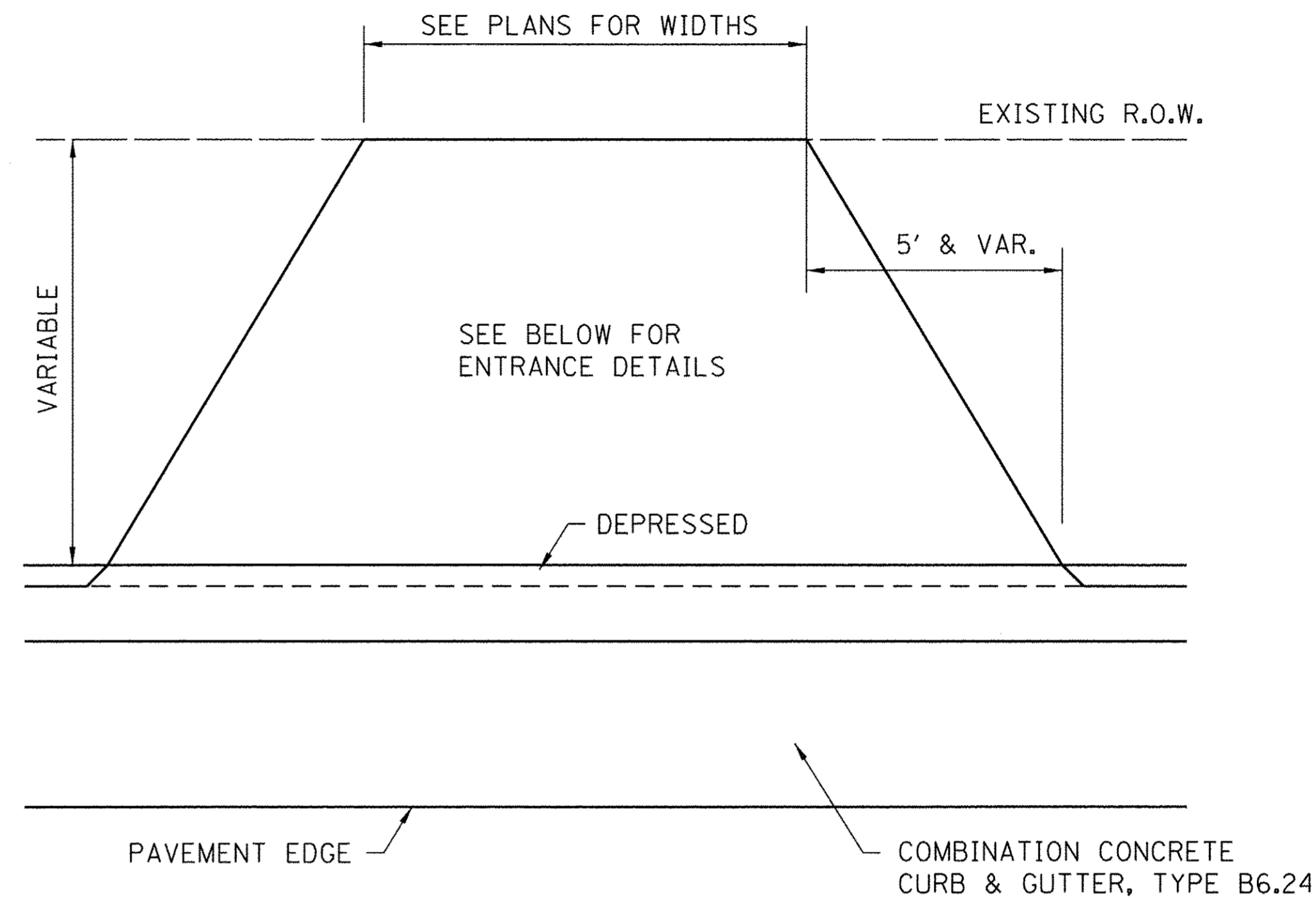
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FRONT VIEW



SLOPE WALL 6 INCH DETAIL



- AGGREGATE BASE COURSE, TYPE B - 8" — PER 12+35
- HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 - 3" — CER 15+45
- CER 19+79
- PER 20+63
- PER 21+93
- PER 24+58
- PER 26+83
- PER 28+53
- PER 29+58
- PEL 38+19
- PER 39+84
- PEL 52+21

- AGGREGATE BASE COURSE, TYPE B - 4" — PER 25+32
- P.C. CONCRETE DRIVEWAY PAVEMENT - 7" — PER 25+71
- PER 30+73

TYPICAL ENTRANCE DETAIL

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LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
2017

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ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

SLOPE WALL 6 INCH & TYPICAL ENTRANCE DETAILS

SHEET NO. 1 OF 1 SHEETS

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	9
WHA# 1018016		CONTRACT NO. 87648		
ILLINOIS FED. AID PROJECT RS-0099062				

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SCHEDULE OF QUANTITIES

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION (SPECIAL) X2020410*	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE 50%	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (FURNISHED EX.) 20400800
TERRA COTTA ROAD STA. 10+65.40 TO STA. 70+00.00	3,033	1,517	2,093	-576
TOTALS	3,033	1,517	2,093	-576

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS

STATION	CY YD	REMARKS
TERRA COTTA ROAD ENTIRE PROJECT	300	CONTINGENCY ITEM
PROJECT TOTAL	300	

TRENCH BACKFILL

STATION	CU YD	REMARKS
TERRA COTTA ROAD		
PER 12+35	4	15" CMP
15+58	9	12" STORM SEWER
18+00	11	15" STORM SEWER
PER 20+63	3	15" CMP
PER 21+93	3	15" CMP
PER 24+58	4	18" EOS CMP
PER 25+32 & 25+71	12	18" EOS CMP
PER 26+83	3	EXISTING 24" CMP REM
PER 26+83	3	18" CMP
PER 29+58	3	EXISTING 24" CONC REM
27+87	8	18" STORM SEWER
30+00	9	15" STORM SEWER
PER 30+73	20	EXISTING 24" CMP REM
32+00	16	15" STORM SEWER
34+00	10	15" STORM SEWER
36+26	16	15" STORM SEWER
RT 36+26 - 36+48	2	15" STORM SEWER
RT 37+90 - 38+14	4	15" STORM SEWER
PER 39+84	4	EXISTING 15" CMP REM
40+28	5	18" STORM SEWER
RT 41+23 - 41+77	8	18" STORM SEWER
RT 42+03 - 42+35	5	18" STORM SEWER
RT 43+78 - 44+00	3	15" STORM SEWER
48+76	4	15" STORM SEWER
50+76	6	15" STORM SEWER
RT 53+03 - 53+16	2	15" STORM SEWER
54+27	33	24" STORM SEWER
58+52	5	15" STORM SEWER
RT 58+50 - 59+75	14	15" STORM SEWER
PROJECT TOTAL	229	

EROSION CONTROL BLANKET

STATION	SQ YD	REMARKS
TERRA COTTA ROAD		
ALL SEEDING AREAS	14,472	
PROJECT TOTAL	14,472	

TEMPORARY EROSION CONTROL SEEDING

STATION	POUND	REMARKS
TERRA COTTA ROAD		
ALL SEEDING AREAS	598	2 APPLICATIONS @ 100 LBS / ACRE
PROJECT TOTAL	598	

TEMPORARY DITCH CHECKS

STATION	FOOT	REMARKS
TERRA COTTA ROAD		
RT 11+50	9	
RT 21+25	9	
RT 22+50 - 23+50	18	2 @ 9' EACH
RT 26+25	9	
RT 27+50	9	
RT 32+50 - 38+50	54	6 @ 9' EACH 1/4" 100' SPACING
RT 41+00 - 49+50	81	9 @ 9' EACH 1/4" 100' SPACING
RT 50+00 - 52+50	54	6 @ 9' EACH 1/4" 50' SPACING
RT 53+50 - 55+50	27	3 @ 9' EACH 1/4" 100' SPACING
RT 56+00 - 60+50	90	10 @ 9' EACH 1/4" 50' SPACING
PROJECT TOTAL	360	

PERIMETER EROSION BARRIER

STATION	FOOT	REMARKS
TERRA COTTA ROAD		
LT 10+66 - LT 15+56	490	
LT 16+05 - LT 16+75	71	
LT 19+94 - LT 29+89	968	
LT 36+61 - LT 38+01	145	
LT 38+38 - LT 38+65	27	
LT 41+33 - LT 42+91	158	
LT 50+63 - LT 51+83	120	
LT 52+33 - LT 54+62	240	
LT 55+67 - LT 56+66	95	
LT 57+42 - LT 59+75	241	
LT 61+85 - LT 68+01	731	
RT 62+40 - RT 69+16	678	
PROJECT TOTAL	3,969	

INLET AND PIPE PROTECTION

STATION	EACH	REMARKS
TERRA COTTA ROAD		
RT 12+00	1	
RT 12+61	1	
LT 15+48	1	
RT 15+70	1	
LT 18+00	1	
LT 20+60	1	
RT 20+85	1	
LT 22+74	1	
RT 24+80	1	
LT 25+29	1	
RT 25+91	1	
RT 26+00	1	
RT 27+97	1	
RT 30+00	1	
RT 32+00	1	
RT 34+00	1	
RT 36+26	1	
RT 36+51	1	
RT 37+51	1	
LT 37+76	1	
RT 38+16	1	
LT 39+51	1	
RT 40+26	1	
LT 41+51	1	
RT 42+26	1	
RT 43+01	1	
RT 44+01	1	
LT 46+27	1	
LT 47+52	1	
LT 48+76	1	
RT 48+76	1	
LT 50+01	1	
RT 50+76	1	
LT 52+76	1	
LT 55+02	1	
LT 56+52	1	
RT 58+52	1	
RT 59+77	1	
PROJECT TOTAL	38	

STONE RIPRAP, CLASS A4

STATION	SQ YD	REMARKS
TERRA COTTA ROAD		
RT 12+00	3	5'X5'
LT 15+50	3	5'X5'
LT 20+60	3	5'X5'
LT 22+75	3	5'X5'
LT 25+30	3	5'X5'
LT 27+97.5	3	5'X5'
LT 29+88 - LT 36+61	381	ALONG GABION
LT 30+00	3	5'X5'
LT 32+00	3	5'X5'
LT 36+25	3	5'X5'
LT 37+75	3	5'X5'
LT 38+67 - LT 41+33	134	ALONG GABION
LT 41+50	3	5'X5'
LT 42+89 - LT 50+63	504	ALONG GABION
LT 50+75	3	5'X5'
LT 51+81 - LT 52+06	12	ALONG GABION
LT 51+93 - LT 52+10	30	S. END OF BOX CULVERT
LT 52+36 - 52+49	6	ALONG GABION
LT 52+75	3	5'X5'
LT 54+25	3	5'X5'
LT 54+66 - 55+65	51	ALONG GABION
LT 56+50	3	5'X5'
LT 56+64 - LT 57+42	32	ALONG GABION
LT 58+50	3	5'X5'
PROJECT TOTAL	1,195	

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LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
2017

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ENGINEERING ARCHITECTURE LAND SURVEYING
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SCHEDULE OF QUANTITIES
SHEET NO. 1 OF 6 SHEETS

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	10
WHA# 1018D16		CONTRACT NO. 87648		
ILLINOIS FED. AID PROJECT RS-009910621				

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SCHEDULE OF QUANTITIES

FILTER FABRIC		
STATION	SQ YD	REMARKS
TERRA COTTA ROAD		
RT 12+00	3	5'X5'
LT 15+50	3	5'X5'
LT 20+60	3	5'X5'
LT 22+75	3	5'X5'
LT 25+30	3	5'X5'
LT 27+97.5	3	5'X5'
LT 29+88 - LT 36+61	381	ALONG GABION
LT 30+00	3	5'X5'
LT 32+00	3	5'X5'
LT 36+25	3	5'X5'
LT 37+75	3	5'X5'
LT 38+67 - LT 41+33	134	ALONG GABION
LT 41+50	3	5'X5'
LT 42+89 - LT 50+63	504	ALONG GABION
LT 50+75	3	5'X5'
LT 51+81 - LT 52+06	12	ALONG GABION
LT 51+93 - LT 52+10	30	S. END OF BOX CULVERT
LT 52+75	3	5'X5'
LT 52+36 - 52+49	6	ALONG GABION
LT 54+25	3	5'X5'
LT 54+66 - 55+65	51	ALONG GABION
LT 56+50	3	5'X5'
LT 56+64 - LT 57+42	32	ALONG GABION
LT 58+50	3	5'X5'
PROJECT TOTAL	1,195	

28200200

GABIONS		
STATION	CY YD	REMARKS
TERRA COTTA ROAD		
RT 16+66 - 19+12	84	
LT 29+88 - 36+61	342	
LT 38+65- 41+33	134	
LT 42+91 - 50+63	433	
LT 51+81- 52+06	12	
LT 52+36 - 52+48	6	
LT 54+62- 55+67	48	
LT 56+65- 57+42	44	
PROJECT TOTAL	1,103	

28400100

SUBBASE GRANULAR MATERIAL, TYPE A		
STATION	TONS	REMARKS
TERRA COTTA ROAD		
LT 10+66 - LT 62+10	909	4" UNDER WIDENING TO 6" OUTSIDE CURB
RT 10+66 - RT 62+10	1,139	4" UNDER WIDENING TO 6" OUTSIDE CURB
LT & RT 10+66 - 62+10	750	FILL UNDERNEATH WIDENING & CURB
PROJECT TOTAL	2,798	

31100100

SUBBASE GRANULAR MATERIAL, TYPE B		
STATION	TON	REMARKS
TERRA COTTA ROAD		
ENTIRE PROJECT	615	CONTINGENCY ITEM FOR REMOVAL OF UNSUITABLE MATERIAL
PROJECT TOTAL	615	

31101000

AGGREGATE BASE COURSE, TYPE B		
STATION	TON	REMARKS
TERRA COTTA ROAD		
PER 12+35	30	8"
CER 15+45	24	8"
CER 19+79	42	8"
PER 20+63	25	8"
PER 21+93	16	8"
PER 24+58	18	8"
PER 25+32	6	4"
PER 25+71	8	4"
PER 26+83	20	8"
PER 28+53	6	8"
PER 29+58	6	8"
LT 29+88 - 36+60	136	8" GABION BASE
PER 30+73	2	4"
PER 38+19	87	12"
LT 38+68 - 41+32	53	8" GABION BASE
PER 39+84	11	8"
LT 42+90 - 50+62	156	8" GABION BASE
LT 51+81 - 52+05	5	8" GABION BASE
LT 54+66 - 55+61	19	8" GABION BASE
LT 56+65 - 57+41	15	8" GABION BASE
PER 52+21	37	8"
PROJECT TOTAL	722	

35101400

HOT-MIX ASPHALT BASE COURSE WIDENING, 6 1/2"		
STATION	SQ YD	REMARKS
TERRA COTTA ROAD		
LT 10+66 - LT 62+10	2,269	
RT 10+66 - RT 62+10	3,289	
PROJECT TOTAL	5,558	

35600702

BITUMINOUS MATERIALS (PRIME COAT)		
STATION	POUNDS	REMARKS
TERRA COTTA ROAD		
LT 10+66 - LT 62+10	5,105	WIDENING 0.25 LBS / SF 1 APP ON AGG
RT 10+66 - RT 62+10	7,400	WIDENING 0.25 LBS / SF 1 APP ON AGG
PER 12+35	137	ENTRANCE 0.25 LBS / SF 1 APP ON AGG
PER 13+68	128	ENTRANCE 0.25 LBS / SF 1 APP ON AGG
PER 15+45	141	ENTRANCE 0.25 LBS / SF 1 APP ON AGG
PER 19+79	135	ENTRANCE 0.25 LBS / SF 1 APP ON AGG
CER 20+63	144	ENTRANCE 0.25 LBS / SF 1 APP ON AGG
PER 21+93	92	ENTRANCE 0.25 LBS / SF 1 APP ON AGG
PER 24+58	82	ENTRANCE 0.25 LBS / SF 1 APP ON AGG
PER 26+83	78	ENTRANCE 0.25 LBS / SF 1 APP ON AGG
PER 28+53	25	ENTRANCE 0.25 LBS / SF 1 APP ON AGG
PER 29+58	30	ENTRANCE 0.25 LBS / SF 1 APP ON AGG
PER 38+19	286	ENTRANCE 0.25 LBS / SF 1 APP ON AGG
PER 39+84	51	ENTRANCE 0.25 LBS / SF 1 APP ON AGG
PER 52+21	141	ENTRANCE 0.25 LBS / SF 1 APP ON AGG
PROJECT TOTAL	13,975	

40600275

BITUMINOUS MATERIALS (TACK COAT)		
STATION	POUNDS	REMARKS
TERRA COTTA ROAD		
LT & RT 10+66 - 72+00	9,761	MAINLINE 0.025 LBS / SF 2 APPS ON HMA
PROJECT TOTAL	9,761	

40600290

LEVELING BINDER (MACHINE METHOD), N50		
STATION	TON	REMARKS
TERRA COTTA ROAD		
LT 10+66 - LT 62+10	274	UNDERNEATH BINDER COURSE
RT 10+66 - RT 62+10	644	INSIDE OF WIDENING
PROJECT TOTAL	918	

40600625

HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50		
STATION	TON	REMARKS
TERRA COTTA ROAD		
LT & RT 10+66 - 72+00	1,920	1 1/2" DEPTH
PROJECT TOTAL	1,920	

40603080

HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50		
STATION	TON	REMARKS
TERRA COTTA ROAD		
LT & RT 10+66 - 72+00	1,920	1 1/2" DEPTH
PROJECT TOTAL	1,920	

40603310

INCIDENTAL HOT-MIX ASPHALT SURFACING		
STATION	TON	REMARKS
TERRA COTTA ROAD		
PER 12+35	11	3"
CER 15+45	9	3"
CER 19+79	16	3"
PER 20+63	10	3"
PER 21+93	6	3"
PER 24+58	7	3"
PER 26+83	7	3"
PER 28+53	2	3"
PER 29+58	2	3"
PER 38+19	22	3"
PER 39+84	4	3"
PER 52+21	14	3"
PROJECT TOTAL	110	

40800050

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REVISION	DATE	BY	REMARKS

DRAWN T.B.S.
CHECKED L.G.N.
APPROVED M.A.H.

LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
2017

WILLET HOFMANN
ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

SCHEDULE OF QUANTITIES
SHEET NO. 2 OF 6 SHEETS

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	11
WHA# 1018D16			CONTRACT NO. 87648	
[ILLINOIS] FED. AID PROJECT RS-00991062				

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SCHEDULE OF QUANTITIES

PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH		
STATION	SQ YD	REMARKS
TERRA COTTA ROAD		
PER 25+32	28	
PER 25+71	35	
PER 30+73	10	
PROJECT TOTAL	73	

42300300

HOT-MIX ASPHALT SURFACE REMOVAL, 2"		
STATION	SQ YD	REMARKS
TERRA COTTA ROAD		
LT & RT 62+10 - 72+00	2,935	
PROJECT TOTAL	2,935	

44000157

COMBINATION CURB AND GUTTER REMOVAL		
STATION	FOOT	REMARKS
TERRA COTTA ROAD		
LT 16+09 - LT 19+26	316	
RT 60+99 - RT 61+40	64	
LT 61+05 - LT 61+41	55	
RT 61+69 - RT 62+10	63	
LT 61+75 - LT 61+98	53	
PROJECT TOTAL	551	

44000500

CLASS D PATCHES, TYPE II, 7 INCH		
STATION	SQ YD	REMARKS
TERRA COTTA ROAD		
LT & RT 30+00	14	6' WIDE
LT & RT 32+00	14	6' WIDE
LT & RT 34+00	14	6' WIDE
LT & RT 36+25	14	6' WIDE
LT & RT 48+75	14	6' WIDE
LT & RT 50+75	14	6' WIDE
LT & RT 52+75	14	6' WIDE
LT & RT 58+50	14	6' WIDE
PROJECT TOTAL	113	

44201729

CLASS D PATCHES, TYPE III, 7 INCH		
STATION	SQ YD	REMARKS
TERRA COTTA ROAD		
LT 15+50 - RT 15+65	19	6' WIDE
LT & RT 18+00	16	6' WIDE
LT & RT 27+97.5	15	6' WIDE
LT & RT 40+25	15	6' WIDE
PROJECT TOTAL	64	

44201733

CLASS D PATCHES, TYPE IV, 7 INCH		
STATION	SQ YD	REMARKS
TERRA COTTA ROAD		
LT 55+03 - RT 55+13	27	10' WIDE
PROJECT TOTAL	27	

44201735

AGGREGATE SHOULDERS, TYPE B 6"		
STATION	SQ YD	REMARKS
TERRA COTTA ROAD		
LT 62+02 - 68+99	372	
RT 62+11 - 68+89	334	
PROJECT TOTAL	706	

48101500

REMOVAL OF EXISTING STRUCTURES		
STATION	EACH	REMARKS
TERRA COTTA ROAD		
LT 52+19	1	
PROJECT TOTAL	1	

50100100*

PIPE CULVERT REMOVAL		
STATION	FOOT	REMARKS
TERRA COTTA ROAD		
RT 12+35	34	12" CMP
RT 19+79	35	15" CMP
RT 20+63	34	15" CMP
RT 24+58	28	15" X 21
RT 25+32	29	15" X 21
RT 25+71	28	15" X 21
RT 26+83	32	24" CMP
RT 29+58	24	24" CONCRETE
RT 30+84	49	24" CMP
RT 39+72	67	15" CMP
PROJECT TOTAL	360	

50105220

SLOPE WALL 6 INCH		
STATION	SQ YD	REMARKS
TERRA COTTA ROAD		
RT12+00	0.83	
LT 15+50	0.92	
LT 20+60	0.83	
LT 22+75	0.83	
LT 25+30	0.83	
LT 27+97.5	0.83	
LT 30+00	0.53	
LT 32+00	0.83	
RT 32+00	1.25	
LT 34+00	0.52	
LT 36+25	0.83	
LT 37+75	0.83	
LT 39+50	0.83	
LT 40+25	0.83	
LT 41+50	0.83	
LT 46+25	0.83	
LT 47+50	0.83	
LT 48+75	0.83	
LT 50+00	0.83	
LT 50+75	0.83	
LT 52+75	0.83	
LT 55+00	0.83	
RT 55+25	4.06	
LT 56+50	4.29	
LT 58+50	0.83	
PROJECT TOTAL	27	

51100300*

PIPE CULVERTS, CLASS D, TYPE 1 15"		
STATION	FOOT	REMARKS
TERRA COTTA ROAD		
RT 12+18 - RT 12+58	40	LENGTH OF PIPE ONLY
RT 19+68 - RT 19+99	35	
RT 20+46 - RT 20+83	40	
RT 21+60 - 22+16	60	
PROJECT TOTAL	175	

54200220

PIPE CULVERTS, CLASS D, TYPE 1 18"		
STATION	FOOT	REMARKS
TERRA COTTA ROAD		
RT 26+65 - 26+99	35	LENGTH OF PIPE ONLY
PROJECT TOTAL	35	

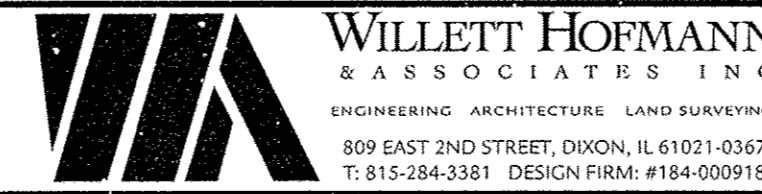
54200223

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REVISION	DATE	BY	REMARKS

DRAWN
T.B.S.
CHECKED
L.G.N.
APPROVED
M.A.H.

LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
2017



SCHEDULE OF QUANTITIES
SHEET NO. 3 OF 6 SHEETS

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	12
WHA# 1018D16		CONTRACT NO. 87648		
ILLINOIS FED. AID PROJECT RS-00990621				

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SCHEDULE OF QUANTITIES

PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 18"		
STATION	FOOT	REMARKS
TERRA COTTA ROAD		
RT 24+42 - RT 24+76	35	LENGTH OF PIPE ONLY
RT 25+20 - RT 25+87	70	
PROJECT TOTAL	105	

STORM SEWERS, CLASS B, TYPE 1 12"		
STATION	FOOT	REMARKS
TERRA COTTA ROAD		
RT 12+00	9	
LT 15+48 - RT 15+70	41	
LT & RT 18+00	51	
LT 20+60	12	
LT 22+75	11	
LT 25+30	11	
LT 37+75	10	
RT 37+50 - 38+15	61	
LT 39+50	4	
LT 41+50	7	
RT 43+00 - 44+00	95	
LT 46+25	5	
LT 47+50	6	
LT & RT 48+75	37	
LT 50+00	6	
LT & RT 50+75	47	
LT 56+50	7	
RT 58+50 - 59+75	116	
PROJECT TOTAL	536	

STORM SEWERS, CLASS B, TYPE 1 15"		
STATION	FOOT	REMARKS
TERRA COTTA ROAD		
LT 15+48	8	
LT & RT 30+00	46	
RT 32+00	5	
LT & RT 34+00	43	
LT 48+75	4	
RT 52+75 - 53+75	95	
LT & RT 58+50	56	
PROJECT TOTAL	257	

STORM SEWERS, CLASS B, TYPE 1 18"		
STATION	FOOT	REMARKS
TERRA COTTA ROAD		
LT & RT 27+97.5	49	
LT & RT 32+00	46	
LT & RT 36+25	48	
RT 36+25 - RT 36+50	20	
RT 36+50 - RT 37+50	91	
RT 40+25 - RT 42+25	196	
RT 42+25 - RT 43+00	71	
LT & RT 52+75	53	
PROJECT TOTAL	574	

STORM SEWERS, CLASS B, TYPE 2 24"		
STATION	FOOT	REMARKS
TERRA COTTA ROAD		
LT & RT 40+25	44	
PROJECT TOTAL	44	

STORM SEWERS, CLASS B, TYPE 1 30"		
STATION	FOOT	REMARKS
TERRA COTTA ROAD		
LT 55+00	14	
LT 55+00 - RT 55+25	116	
PROJECT TOTAL	130	

MANHOLES TO BE ADJUSTED		
STATION	EACH	REMARKS
TERRA COTTA ROAD		
LT 61+62	1	
PROJECT TOTAL	1	

INLETS TO BE ADJUSTED		
STATION	FOOT	REMARKS
TERRA COTTA ROAD		
RT 61+40	1	
RT 61+74	1	
PROJECT TOTAL	2	

CLASS SI CONCRETE (OUTLET)		
STATION	CU YD	REMARKS
TERRA COTTA ROAD		
RT 11+01 - RT 11+25	7.75	
LT 11+01 - RT 11+25	7.75	
PROJECT TOTAL	15.5	

COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12		
STATION	FOOT	REMARKS
TERRA COTTA ROAD		
LT 38+05	37	
LT 38+25	36	
PROJECT TOTAL	73	

COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24		
STATION	FOOT	REMARKS
TERRA COTTA ROAD		
LT 11+25 - LT 15+51	426	
RT 11+25 - RT 16+22	497	
LT 16+08 - LT 19+55	347	
RT 16+72 - RT 61+00	4,405	
LT 20+01 - LT 61+21	4,127	
RT 61+00 - RT 61+41	64	
LT 61+21 - LT 61+42	40	
RT 61+72 - RT 62+13	64	
LT 61+78 - LT 61+99	40	
PROJECT TOTAL	10,010	

STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS		
STATION	FOOT	REMARKS
TERRA COTTA ROAD		
RT 66+88 - RT 68+75	187.5	
PROJECT TOTAL	187.5	

STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS		
STATION	FOOT	REMARKS
TERRA COTTA ROAD		
LT 63+64 - LT 68+75	525	
PROJECT TOTAL	525	

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REVISION	DATE	BY	REMARKS

DRAWN T.B.S.
CHECKED L.G.N.
APPROVED M.A.H.

**LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
2017**

**WILLET HOFMANN
& ASSOCIATES INC.**
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

**SCHEDULE OF QUANTITIES
SHEET NO. 4 OF 6 SHEETS**

C.H. RTE. 42	SECTION 15-00348-00-WR	COUNTY LASALLE	TOTAL SHEETS 98	SHEET NO. 13
WHA# 1018D16		CONTRACT NO. 87648		
ILLINOIS FED. AID PROJECT RS-0099062				

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SCHEDULE OF QUANTITIES

LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN		
STATION	FOOT	REMARKS
TERRA COTTA ROAD		
LT 19+52 - LT 19+97	44	
PROJECT TOTAL	44	
63000360		

GUARDRAIL REMOVAL		
STATION	FOOT	REMARKS
TERRA COTTA ROAD		
LT 15+35 - LT 16+40	104	
RT 15+90 - RT 19+65	391	
LT 19+23 - LT 20+24	96	
LT 62+60 - LT 68+75	615	
RT 66+08 - RT 68+75	267	
PROJECT TOTAL	1,473	
63200310		

GUARDRAIL REFLECTORS, TYPE A		
STATION	EACH	REMARKS
TERRA COTTA ROAD		
LT 15+12 - LT 16+65	4	
RT 15+65 - RT 17+17	4	
LT 18+98 - LT 20+51	4	
LT 62+99 - LT 68+75	8	
RT 66+36 - RT 68+75	4	
PROJECT TOTAL	24	
78200005		

LONG-SPAN GUARDRAIL OVER CULVERT, 25 FT SPAN		
STATION	FOOT	REMARKS
TERRA COTTA ROAD		
LT 15+64 - LT 16+14	50	
RT 16+16 - RT 16+66	50	
PROJECT TOTAL	100	
63000370		

TERMINAL MARKER - DIRECT APPLIED		
STATION	EACH	REMARKS
TERRA COTTA ROAD		
LT 52+99	1	
RT 66+36	1	
LT 15+12	1	
RT 15+65	1	
LT 16+65	1	
RT 17+17	1	
LT 18+98	1	
LT 20+51	1	
PROJECT TOTAL	8	
72501000		

SEEDING, CLASS 2 (SPECIAL)		
STATION	ACRE	REMARKS
TERRA COTTA ROAD		
LT 10+66 - LT 29+88	0.64	
RT 10+65 - RT 12+27	0.06	
RT 12+50 - RT 13+56	0.03	
RT 13+80 - RT 15+33	0.05	
RT 15+57 - RT 19+69	0.12	
RT 19+90 - RT 20+55	0.03	
RT 20+70 - RT 21+84	0.05	
RT 22+01 - RT 24+49	0.09	
RT 24+68 - RT 25+25	0.01	
RT 25+38 - RT 25+62	0.01	
RT 25+81 - RT 26+79	0.03	
RT 26+92 - RT 28+49	0.04	
RT 28+59 - RT 29+52	0.02	
RT 29+63 - RT 30+67	0.02	
RT 30+67 - RT 39+71	0.19	
LT 36+61 - LT 38+01	0.04	
LT 38+38 - RT 38+65	0.01	
RT 39+91 - RT 61+40	0.77	
LT 41+33 - LT 42+91	0.04	
LT 50+63 - LT 51+83	0.03	
LT 52+33 - LT 54+62	0.09	
LT 55+67 - LT 56+66	0.02	
LT 57+42 - LT 61+41	0.11	
RT 61+73 - RT 69+18	0.34	
LT 61+79 - LT 68+01	0.15	
PROJECT TOTAL	2.99	
K2501000*		

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT		
STATION	EACH	REMARKS
TERRA COTTA ROAD		
LT 62+99 - LT 63+64	1	
RT 66+36 - RT 66+88	1	
PROJECT TOTAL	2	
63100167		

THERMOPLASTIC PAVEMENT MARKING - LINE 4"		
STATION	EACH	REMARKS
TERRA COTTA ROAD		
10+65 - 71+98	12,266	DOUBLE YELLOW CENTERLINE
RT 61+69 - RT 68+39	670	SOLID WHITE EDGE LINE
LT 61+75 - LT 69+12	737	SOLID WHITE EDGE LINE
LT 70+51 - LT 71+98	147	SOLID WHITE EDGE LINE
RT 70+92 - RT 71+98	106	SOLID WHITE EDGE LINE
PROJECT TOTAL	13,926	
78000200		

HOT-MIX ASPHALT SURFACE REMOVAL VARIABLE DEPTH		
STATION	SQ YD	REMARKS
TERRA COTTA ROAD		
LT & RT 10+60 - 10+82	56	BUTT JOINT
LT & RT 10+82 - 11+50	177	1 1/2" DEPTH
LT 15+00 - 16+00	131	1" DEPTH
RT 17+00 - 18+00	150	1 1/2" DEPTH
RT 19+00 - 22+25	405	1" DEPTH
LT 38+00 - 38+50	68	1" DEPTH
RT 39+00 - 40+00	104	1 1/2" DEPTH
LT 42+25 - 43+25	133	1 1/2" DEPTH
LT 46+00 - 46+50	69	1 1/2" DEPTH
LT 58+50 - 61+20	311	VAR. DEPTH
LT 61+50	56	BUTT JOINT
RT 61+50	48	BUTT JOINT
PROJECT TOTAL	1,708	
X4401198*		

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED		
STATION	EACH	REMARKS
TERRA COTTA ROAD		
LT 15+12 - LT 15+64	1	
RT 15+65 - RT 16+16	1	
LT 16+14 - LT 16+65	1	
RT 16+66 - RT 17+17	1	
LT 18+98 - LT 19+52	1	
LT 19+97 - LT 20+51	1	
PROJECT TOTAL	6	
63100169		

THERMOPLASTIC PAVEMENT MARKING - LINE 6"		
STATION	FOOT	REMARKS
TERRA COTTA ROAD		
RT 10+65 - RT 61+40	5,091	SOLID WHITE EDGE LINE
LT 10+65 - LT 61+41	5,076	SOLID WHITE EDGE LINE
PROJECT TOTAL	10,167	
78000400		

RAISED REFLECTIVE PAVEMENT MARKER		
STATION	EACH	REMARKS
TERRA COTTA ROAD		
10+66 - 62+10	130	
PROJECT TOTAL	130	
78100100		

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REVISION	DATE	BY	REMARKS

DRAWN T.B.S.
CHECKED L.G.N.
APPROVED M.A.H.

LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
2017



SCHEDULE OF QUANTITIES
SHEET NO. 5 OF 6 SHEETS

C.H. RTE. 42	SECTION 15-00348-00-WR	COUNTY LASALLE	TOTAL SHEETS 98	SHEET NO. 14
WHA# 1018D16		CONTRACT NO. 87648		
[ILLINOIS] FED. AID PROJECT RS-00990621				

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SCHEDULE OF QUANTITIES

PIPE CULVERT REMOVAL (SPECIAL)		
STATION	FOOT	REMARKS
TERRA COTTA ROAD		
LT 37+95 - LT 38+39	44	4.5' X 6' CMP
LT 37+95 - LT 38+39	44	4.5' X 6' CMP
LT 37+95 - LT 38+39	44	4.5' X 6' CMP
PROJECT TOTAL	132	

INLETS, SPECIAL		
STATION	EACH	REMARKS
TERRA COTTA ROAD		
RT 12+00	1	
LT 15+48	1	
RT 15+70	1	
LT 18+00	1	
LT 20+60	1	
LT 22+75	1	
LT 25+30	1	
RT 27+97.5	1	W/ WEIR OPENING
RT 30+00	1	
RT 32+00	1	
RT 34+00	1	
RT 36+25	1	
LT 37+75	1	
RT 38+15	1	W/ WEIR OPENING
LT 39+50	1	
RT 40+25	1	W/ WEIR OPENING
LT 41+50	1	
RT 42+25	1	W/ WEIR OPENING
RT 44+00	1	W/ WEIR OPENING
LT 46+25	1	
LT 47+50	1	
LT 48+75	1	
RT 48+75	1	
LT 50+00	1	
RT 50+75	1	
RT 52+75	1	
LT 56+50	1	
RT 58+50	1	
RT 59+75	1	
PROJECT TOTAL	29	

INLETS, SPECIAL, NO. 1		
STATION	EACH	REMARKS
TERRA COTTA ROAD		
RT 36+50	1	
RT 37+50	1	
RT 43+00	1	
PROJECT TOTAL	3	

INLETS, SPECIAL, NO. 2		
STATION	EACH	REMARKS
TERRA COTTA ROAD		
LT 55+00	1	
PROJECT TOTAL	1	

PLUG EXISTING CULVERTS		
STATION	EACH	REMARKS
TERRA COTTA ROAD		
22+09	1	18" CMP
28+65	1	18" CMP
35+35	1	18" CMP
37+48	1	18" CMP
43+66	1	24" CMP
45+93	1	18" CMP
49+88	1	18" CMP
53+86	1	18" CMP
55+25	1	30" CMP
PROJECT TOTAL	9	

FILE = S:\PROJECTS\2016\1018D16.LCH_TC\DESIGN\TRANS\1018D16_Schedules.dgn

REVISION	DATE	BY	REMARKS

DRAWN	T.B.S.
CHECKED	L.G.N.
APPROVED	M.A.H.

LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
2017

WILLET HOFMANN & ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T: 815-284-3381 DESIGN FIRM: #184-00918

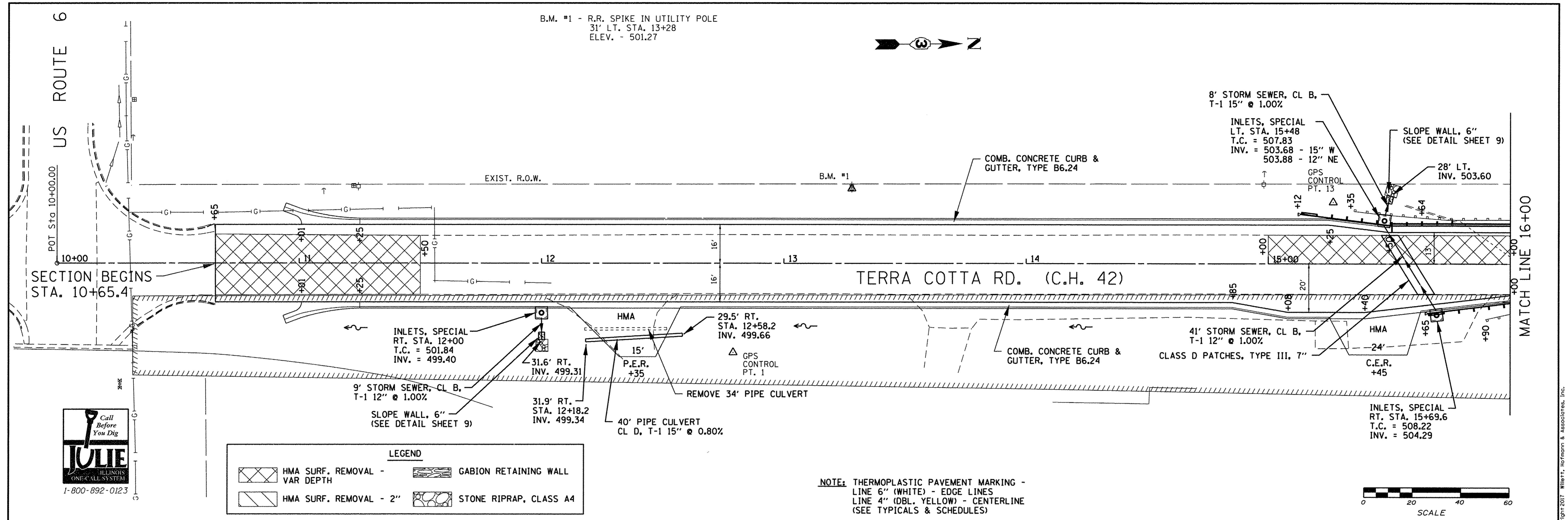
SCHEDULE OF QUANTITIES

SHEET NO. 6 OF 6 SHEETS

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	15
WHA# 1018D16		CONTRACT NO. 87648		
ILLINOIS FED. AID PROJECT RS-0099062				

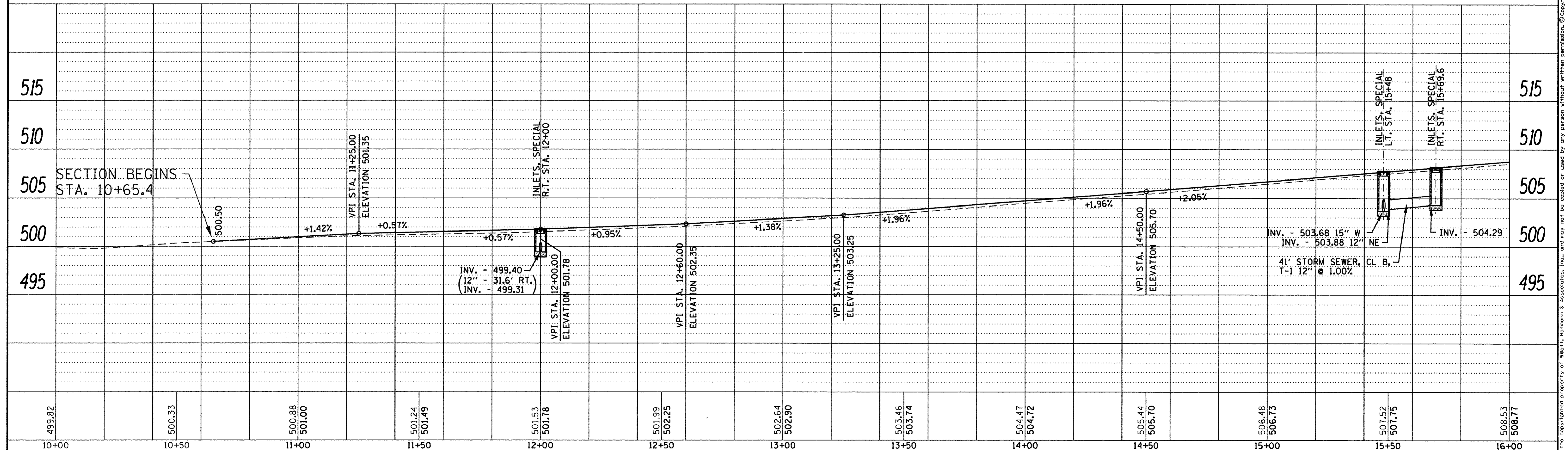
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LEGEND	
	HMA SURF. REMOVAL - VAR DEPTH
	HMA SURF. REMOVAL - 2"
	GABION RETAINING WALL
	STONE RIPRAP, CLASS A4

NOTE: THERMOPLASTIC PAVEMENT MARKING -
 LINE 6" (WHITE) - EDGE LINES
 LINE 4" (DBL. YELLOW) - CENTERLINE
 (SEE TYPICALS & SCHEDULES)



REVISION	DATE	BY	REMARKS

DRAWN T.B.S.
 CHECKED L.G.N.
 APPROVED M.A.H.

LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
 2017

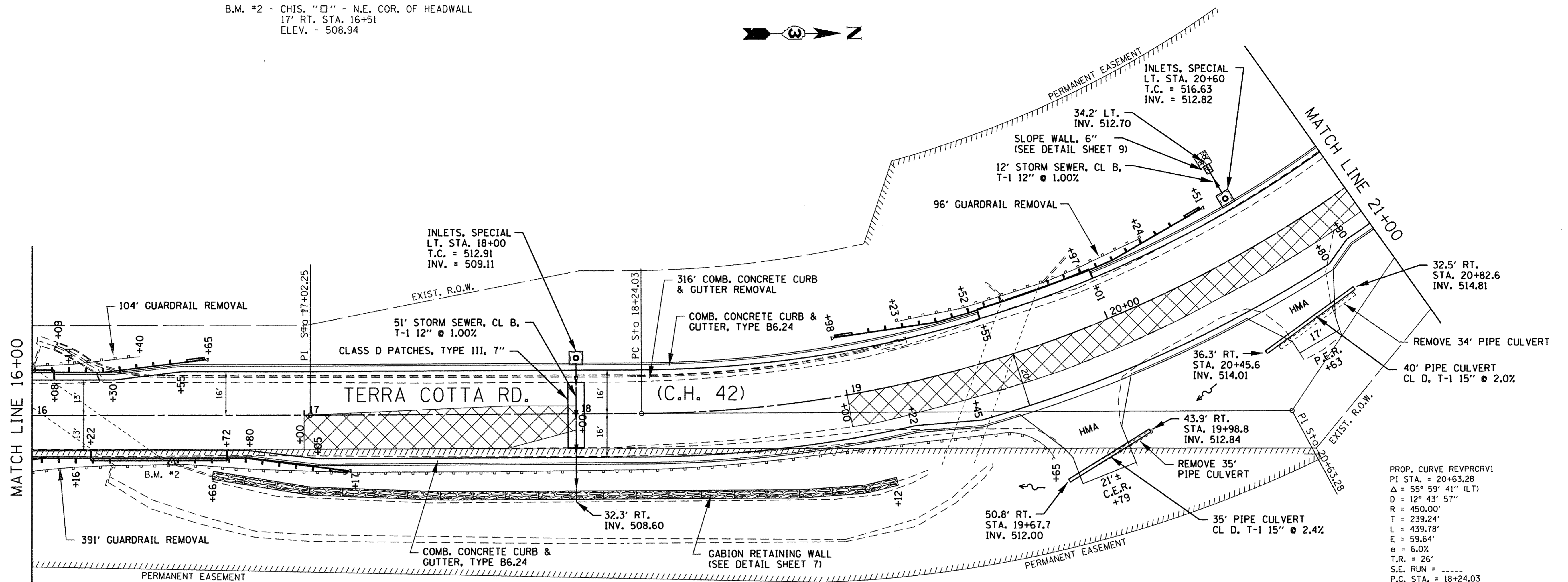


PLAN AND PROFILE
 STA. 10+00 TO STA. 16+00

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	16
WHA# 1018D16		CONTRACT NO. 87648		
ILLINOIS FED. AID PROJECT RS-00910621				

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B.M. #2 - CHIS. "□" - N.E. COR. OF HEADWALL
 17' RT. STA. 16+51
 ELEV. - 508.94

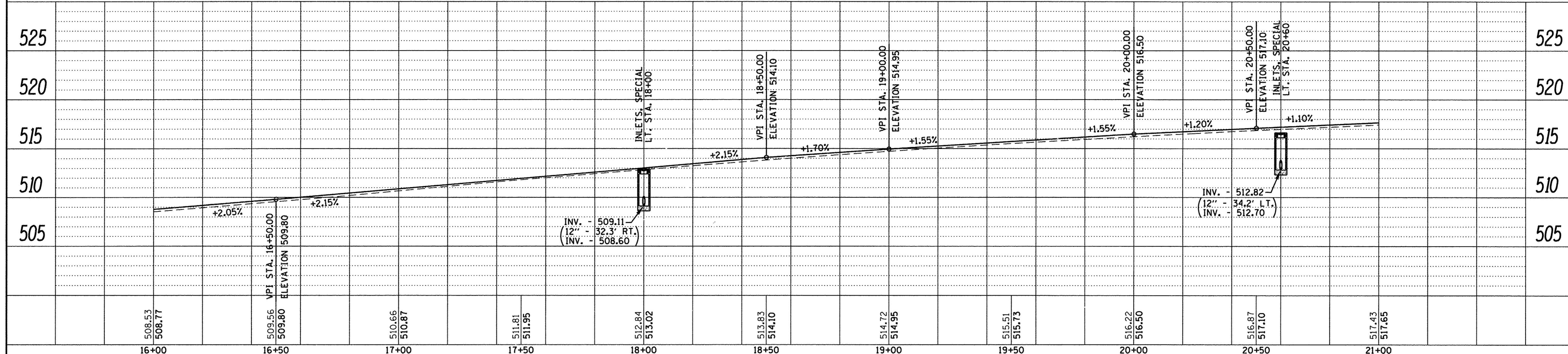
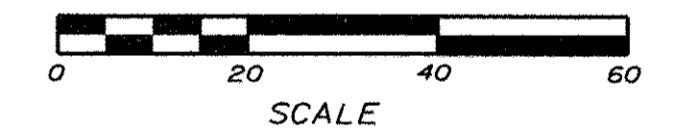


PROP. CURVE REVPCRV1
 PI STA. = 20+63.28
 $\Delta = 55^\circ 59' 41''$ (LT)
 $D = 12^\circ 43' 57''$
 $R = 450.00'$
 $T = 239.24'$
 $L = 439.78'$
 $E = 59.64'$
 $e = 6.0\%$
 $T.R. = 26'$
 $S.E. RUN = \dots$
 $P.C. STA. = 18+24.03$
 $P.T. STA. = 22+63.82$



LEGEND	
	HMA SURF. REMOVAL - VAR DEPTH
	HMA SURF. REMOVAL - 2"
	GABION RETAINING WALL
	STONE RIPRAP, CLASS A4

NOTE: THERMOPLASTIC PAVEMENT MARKING -
 LINE 6" (WHITE) - EDGE LINES
 LINE 4" (DBL. YELLOW) - CENTERLINE
 (SEE TYPICALS & SCHEDULES)



REVISION	DATE	BY	REMARKS

LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
 2017

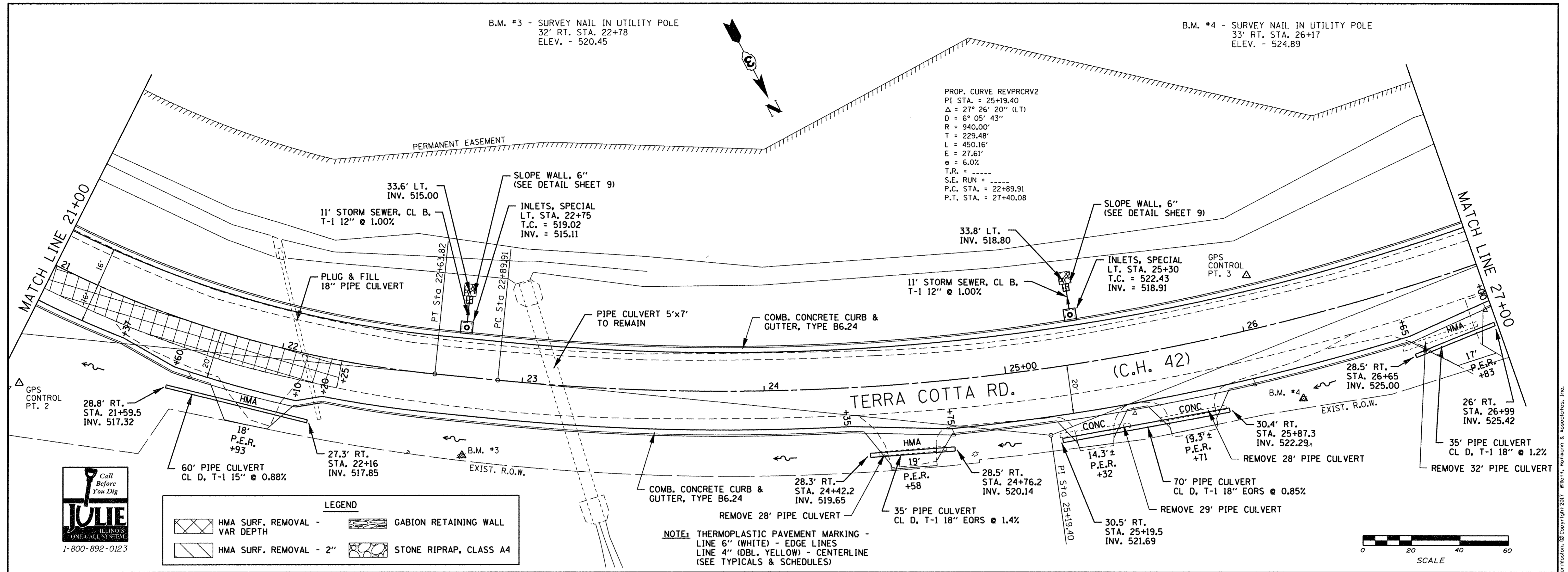
WILLET HOFMANN & ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T. 815-284-3381 DESIGN FIRM: #184-000918

PLAN AND PROFILE
 STA. 16+00 TO STA. 21+00

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	17
WHA* 1018D16			CONTRACT NO. 87648	
[ILLINOIS] FED. AID PROJECT RS-00990621				

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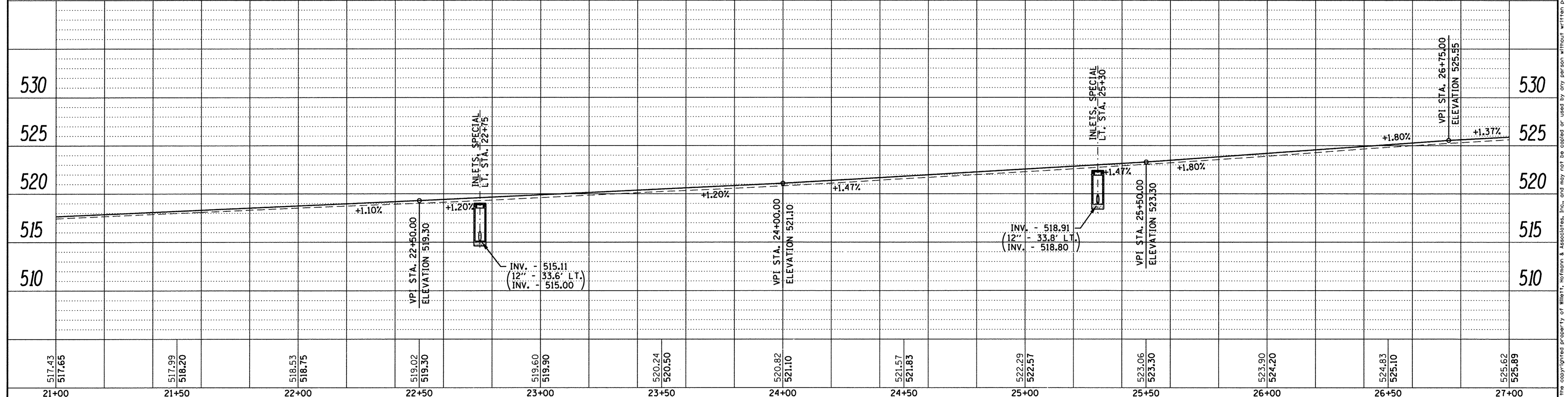
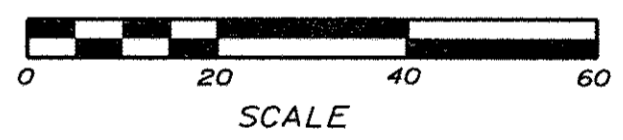
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LEGEND

	HMA SURF. REMOVAL - VAR DEPTH		GABION RETAINING WALL
	HMA SURF. REMOVAL - 2"		STONE RIPRAP, CLASS A4

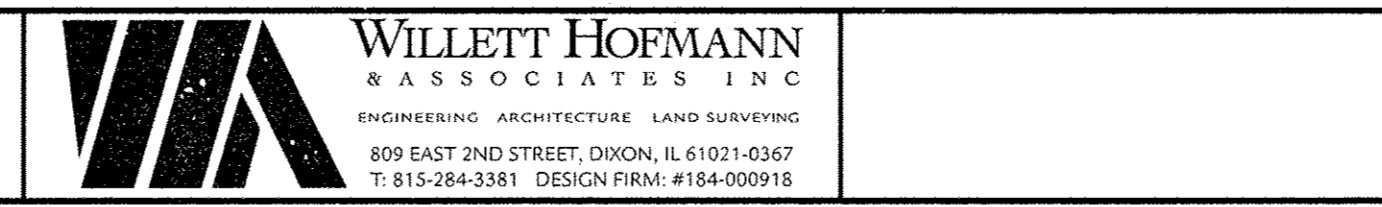
NOTE: THERMOPLASTIC PAVEMENT MARKING -
LINE 6" (WHITE) - EDGE LINES
LINE 4" (DBL. YELLOW) - CENTERLINE
(SEE TYPICALS & SCHEDULES)



REVISION	DATE	BY	REMARKS

DRAWN T.B.S.
CHECKED L.G.N.
APPROVED M.A.H.

LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
2017



PLAN AND PROFILE
STA. 21+00 TO STA. 27+00

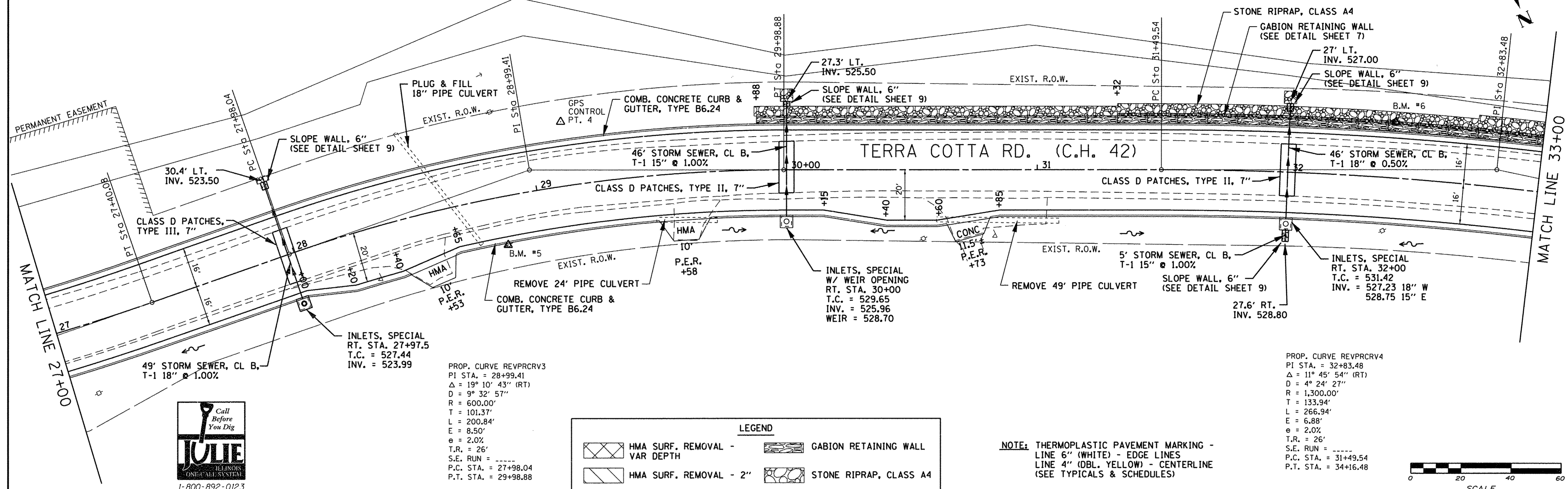
C.H. RTE. 42	SECTION 15-00348-00-WR	COUNTY LASALLE	TOTAL SHEETS 98	SHEET NO. 18
WHA# 1018D16		CONTRACT NO. 87648		
ILLINOIS FED. AID PROJECT RS-0091062				

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B.M. #5 - SURVEY NAIL IN UTILITY POLE
19' RT. STA. 28+85
ELEV. - 527.84

B.M. #6 - SURVEY NAIL IN UTILITY POLE
22' LT. STA. 32+42
ELEV. - 531.51

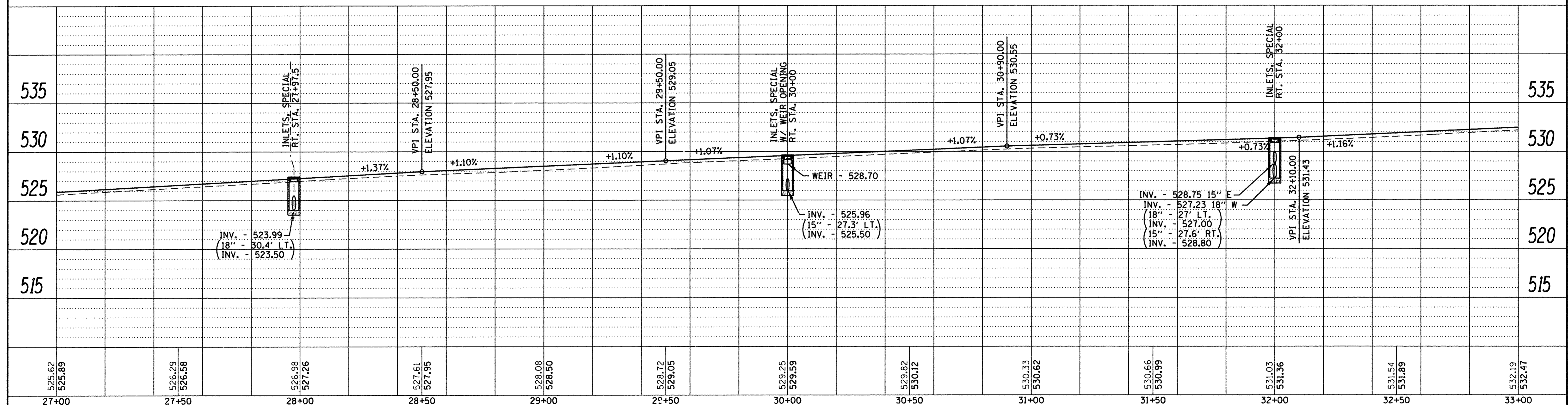
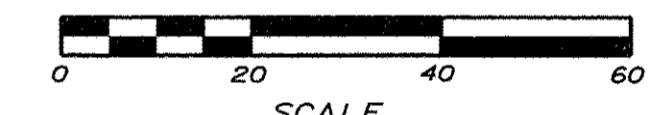


PROP. CURVE REVP/CRV3
PI STA. = 28+99.41
Δ = 19° 10' 43" (RT)
D = 9° 32' 57"
R = 600.00'
T = 101.37'
L = 200.84'
E = 8.50'
e = 2.0%
T.R. = 26'
S.E. RUN = -----
P.C. STA. = 27+98.04
P.T. STA. = 29+98.88

PROP. CURVE REVP/CRV4
PI STA. = 32+83.48
Δ = 11° 45' 54" (RT)
D = 4° 24' 27"
R = 1,300.00'
T = 133.94'
L = 266.94'
E = 6.88'
e = 2.0%
T.R. = 26'
S.E. RUN = -----
P.C. STA. = 31+49.54
P.T. STA. = 34+16.48

LEGEND	
	HMA SURF. REMOVAL - VAR DEPTH
	HMA SURF. REMOVAL - 2"
	GABION RETAINING WALL
	STONE RIPRAP, CLASS A4

NOTE: THERMOPLASTIC PAVEMENT MARKING -
LINE 6" (WHITE) - EDGE LINES
LINE 4" (DBL. YELLOW) - CENTERLINE
(SEE TYPICALS & SCHEDULES)



REVISION	DATE	BY	REMARKS	DRAWN	CHECKED	APPROVED
				T.B.S.	L.G.N.	M.A.H.

LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
2017



PLAN AND PROFILE

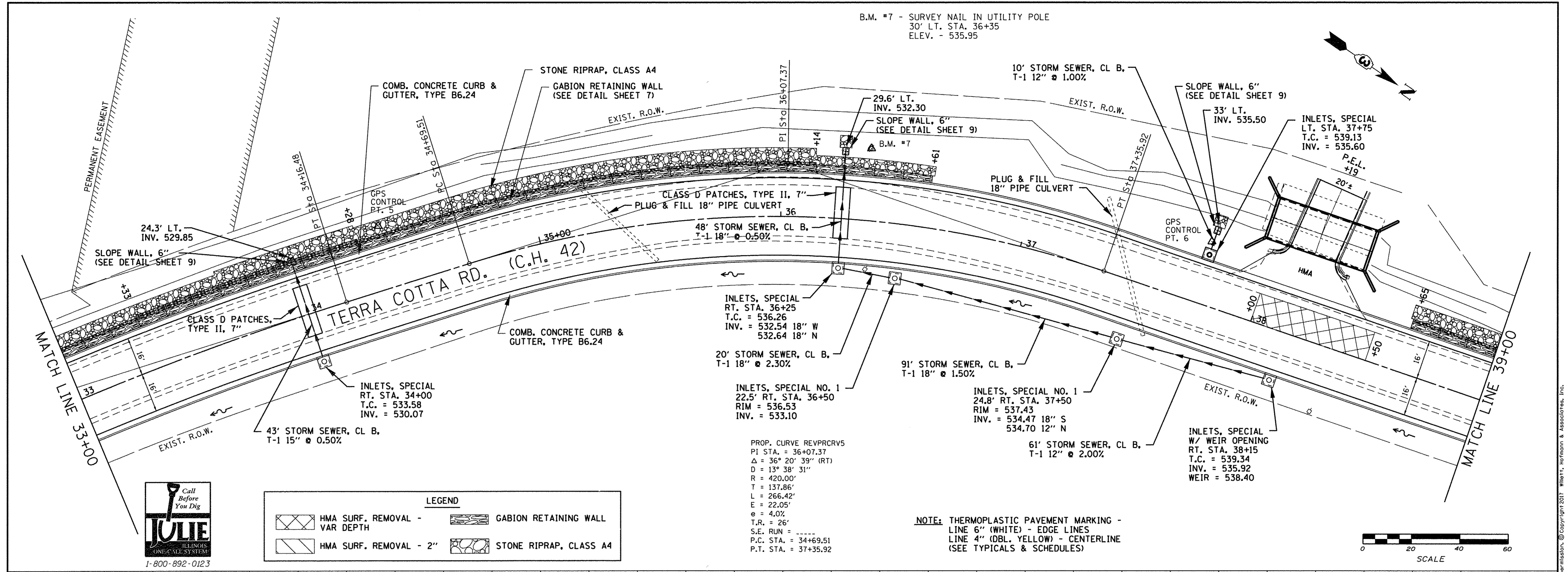
STA. 27+00 TO STA. 33+00

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	19

WHA# 1018016 CONTRACT NO. 87648

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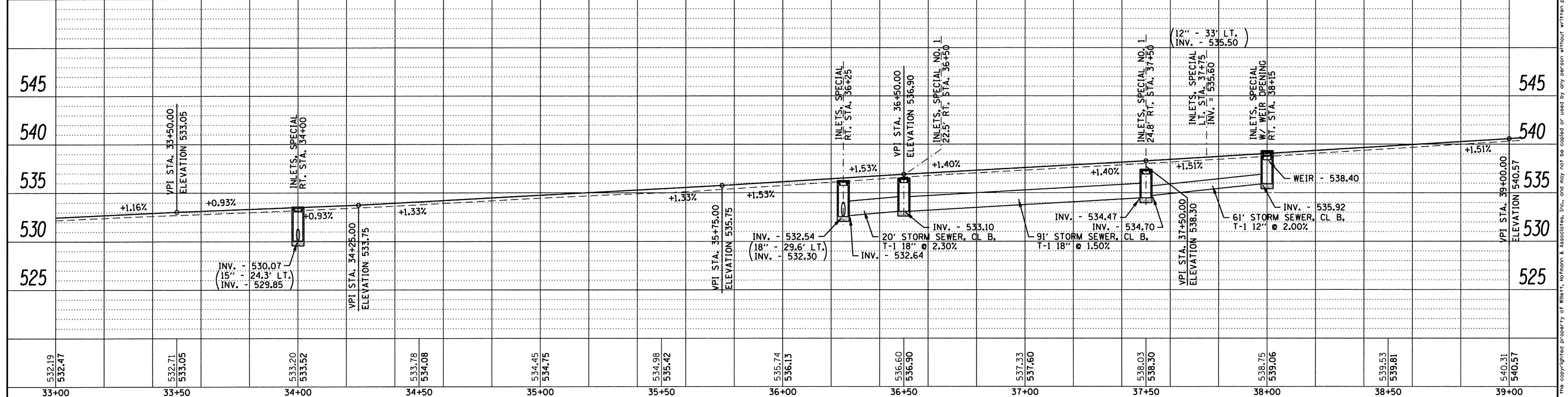
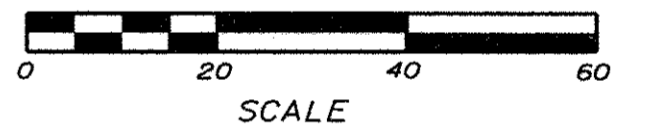
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LEGEND	
	HMA SURF. REMOVAL - VAR DEPTH
	HMA SURF. REMOVAL - 2"
	GABION RETAINING WALL
	STONE RIPRAP, CLASS A4

PROP. CURVE REVPCRV5
 PI STA. = 36+07.37
 Δ = 36° 20' 39" (RT)
 D = 13° 38' 31"
 R = 420.00'
 T = 137.86'
 L = 266.42'
 E = 22.05'
 e = 4.0%
 T.R. = 26'
 S.E. RUN = -----
 P.C. STA. = 34+69.51
 P.T. STA. = 37+35.92

NOTE: THERMOPLASTIC PAVEMENT MARKING -
 LINE 6" (WHITE) - EDGE LINES
 LINE 4" (DBL. YELLOW) - CENTERLINE
 (SEE TYPICALS & SCHEDULES)



REVISION	DATE	BY	REMARKS

DRAWN T.B.S.
 CHECKED L.G.N.
 APPROVED M.A.H.

LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
 2017

WILLET HOFMANN & ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T. 815-284-3381 DESIGN FIRM #184-000918

PLAN AND PROFILE
 STA. 33+00 TO STA. 39+00

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	20

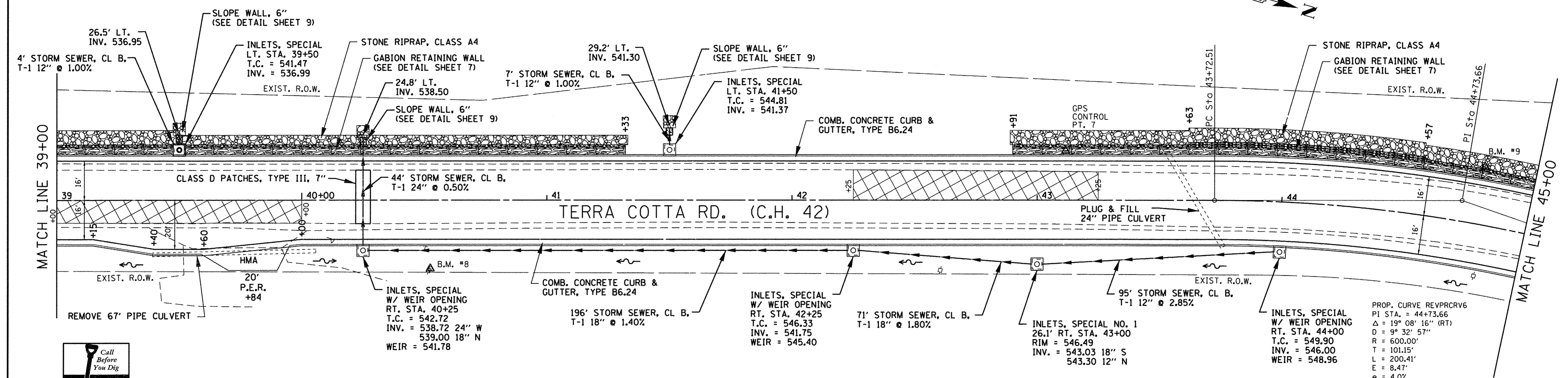
WHA# 1018D16 CONTRACT NO. 87648
 ILLINOIS FED. AID PROJECT RS-00990621

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B.M. #8 - SURVEY NAIL IN UTILITY POLE
28' RT. STA. 40+52
ELEV. - 543.61

B.M. #9 - SURVEY NAIL IN UTILITY POLE
24' LT. STA. 44+79
ELEV. - 551.75

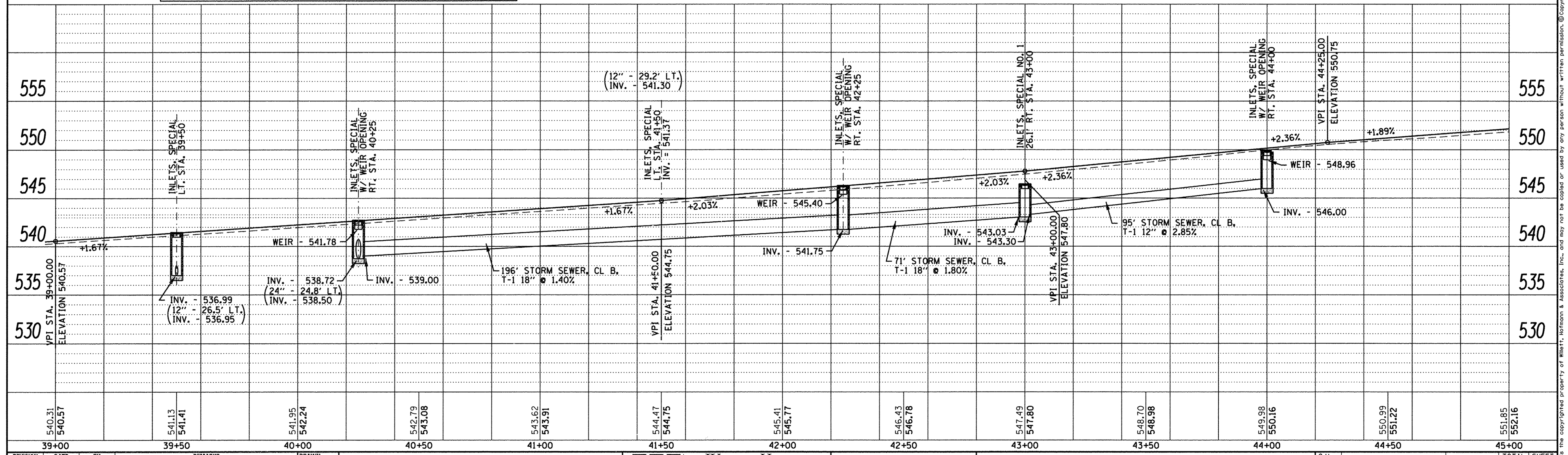


LEGEND	
	HMA SURF. REMOVAL - VAR DEPTH
	HMA SURF. REMOVAL - 2"
	GABION RETAINING WALL
	STONE RIPRAP, CLASS A4

NOTE: THERMOPLASTIC PAVEMENT MARKING -
LINE 6" (WHITE) - EDGE LINES
LINE 4" (DBL. YELLOW) - CENTERLINE
(SEE TYPICALS & SCHEDULES)

PROP. CURVE REVP/RCRV6
PI STA. = 44+73.66
Δ = 19° 08' 16" (RT)
D = 9° 32' 57"
R = 600.00'
T = 101.15'
L = 200.41'
E = 8.47'
e = 4.02'
T.R. = 26'
S.E. RUN = -----
P.C. STA. = 43+72.51
P.T. STA. = 45+72.92

SCALE
0 20 40 60



REVISION	DATE	BY	REMARKS

DRAWN
T.B.S.
CHECKED
L.G.N.
APPROVED
M.A.H.

LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
2017

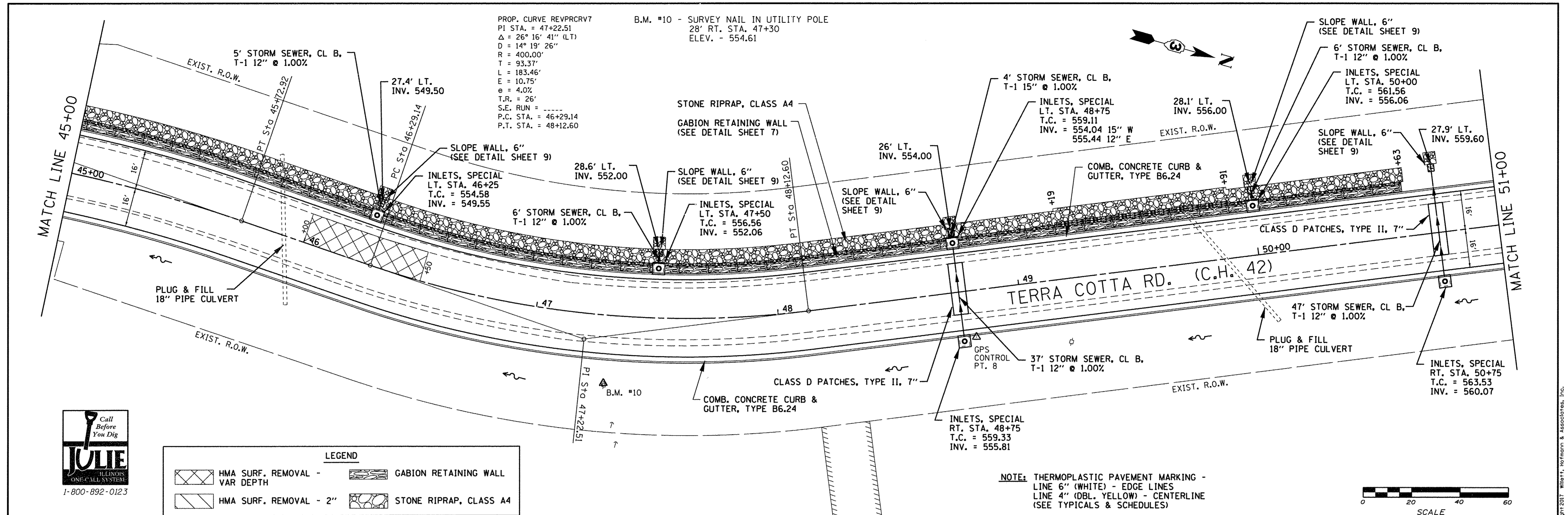


PLAN AND PROFILE
STA. 39+00 TO STA. 45+00

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	21
WHA# 1018D16			CONTRACT NO. 87648	
ILLINOIS FED. AID PROJECT RS-0091062				

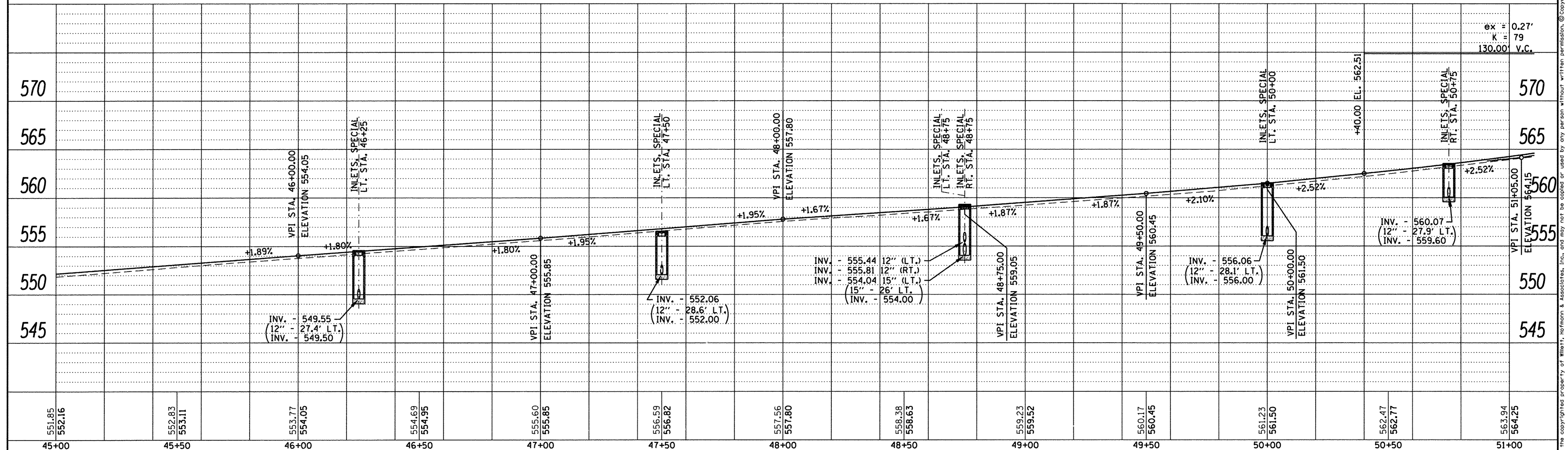
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LEGEND	
	HMA SURF. REMOVAL - VAR DEPTH
	HMA SURF. REMOVAL - 2"
	GABION RETAINING WALL
	STONE RIPRAP, CLASS A4

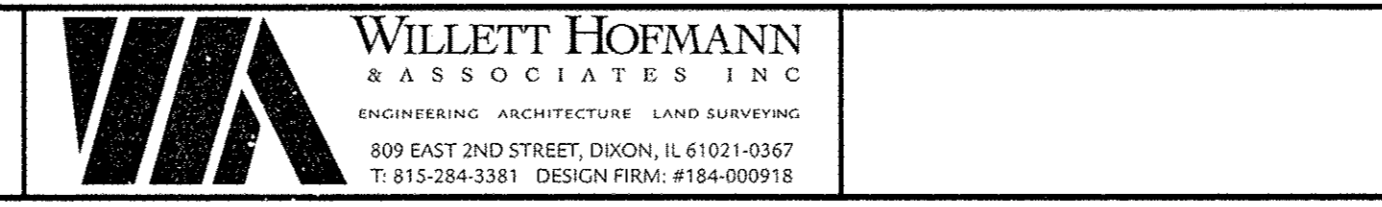
NOTE: THERMOPLASTIC PAVEMENT MARKING -
 LINE 6" (WHITE) - EDGE LINES
 LINE 4" (DBL. YELLOW) - CENTERLINE
 (SEE TYPICALS & SCHEDULES)



REVISION	DATE	BY	REMARKS

DRAWN T.B.S.
 CHECKED L.G.N.
 APPROVED M.A.H.

LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
2017



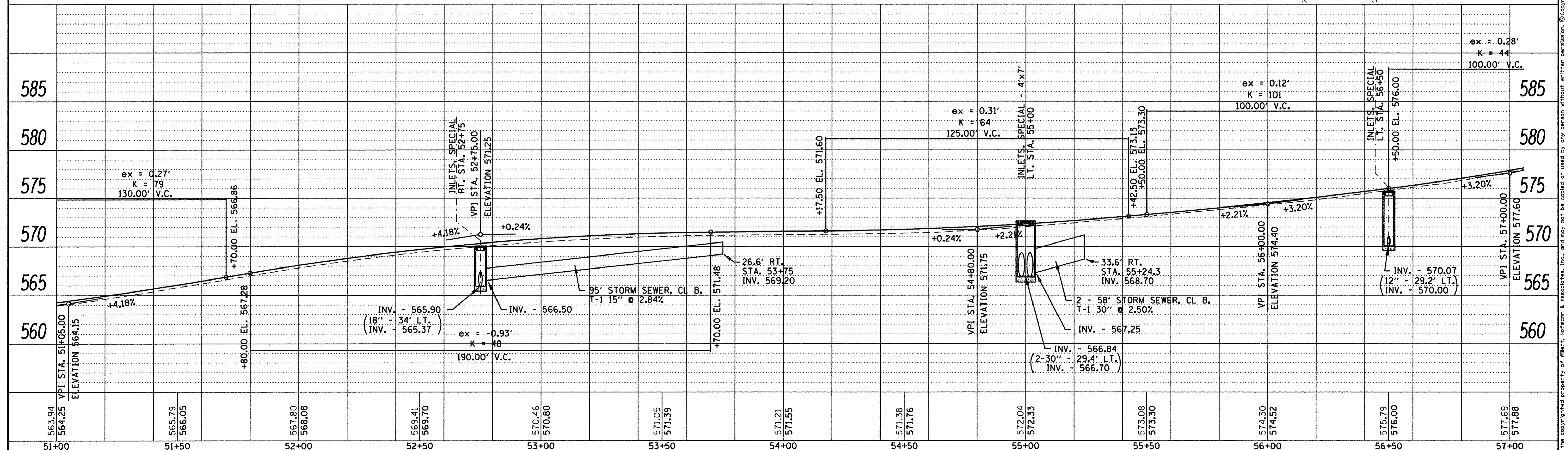
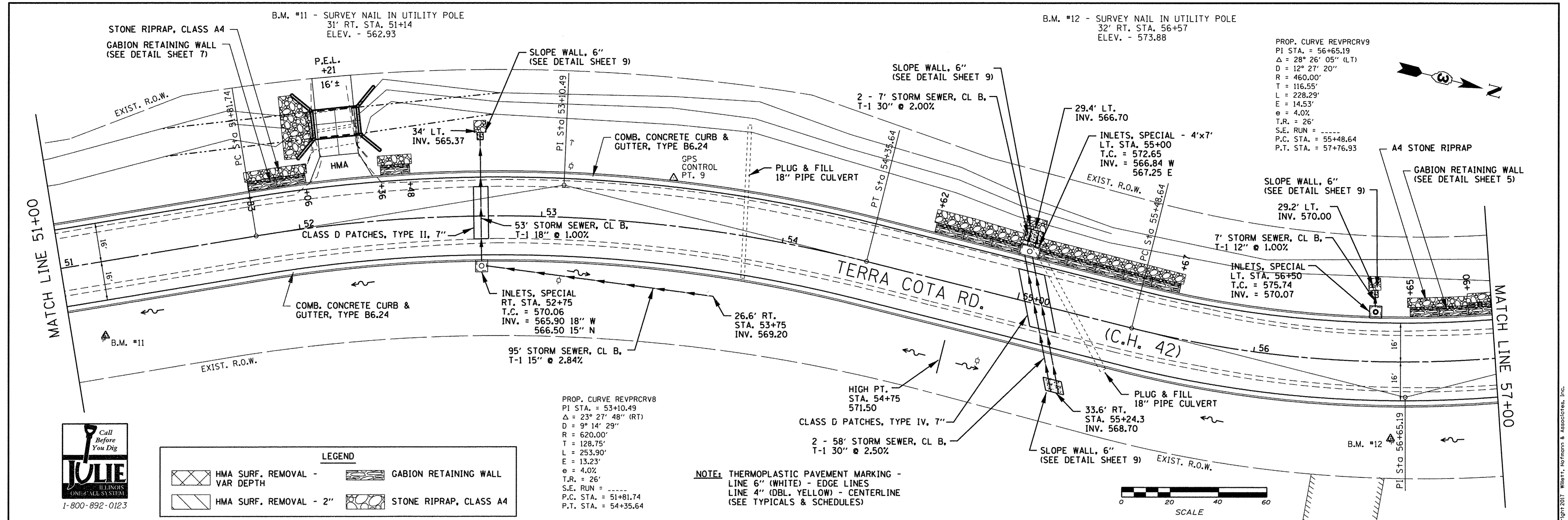
PLAN AND PROFILE
STA. 45+00 TO STA. 51+00

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	22

CONTRACT NO. 87648
 ILLINOIS FED. AID PROJECT RS-00990621

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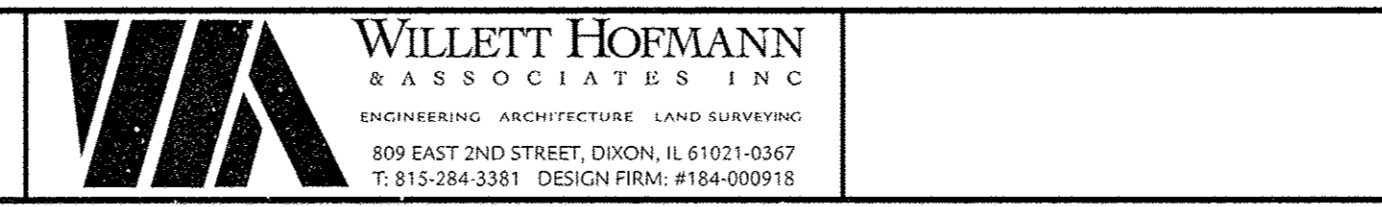
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REVISION	DATE	BY	REMARKS

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CHECKED L.G.N.
APPROVED M.A.H.

LASALLE COUNTY
TERRA COTA RD. (C.H. 42)
2017

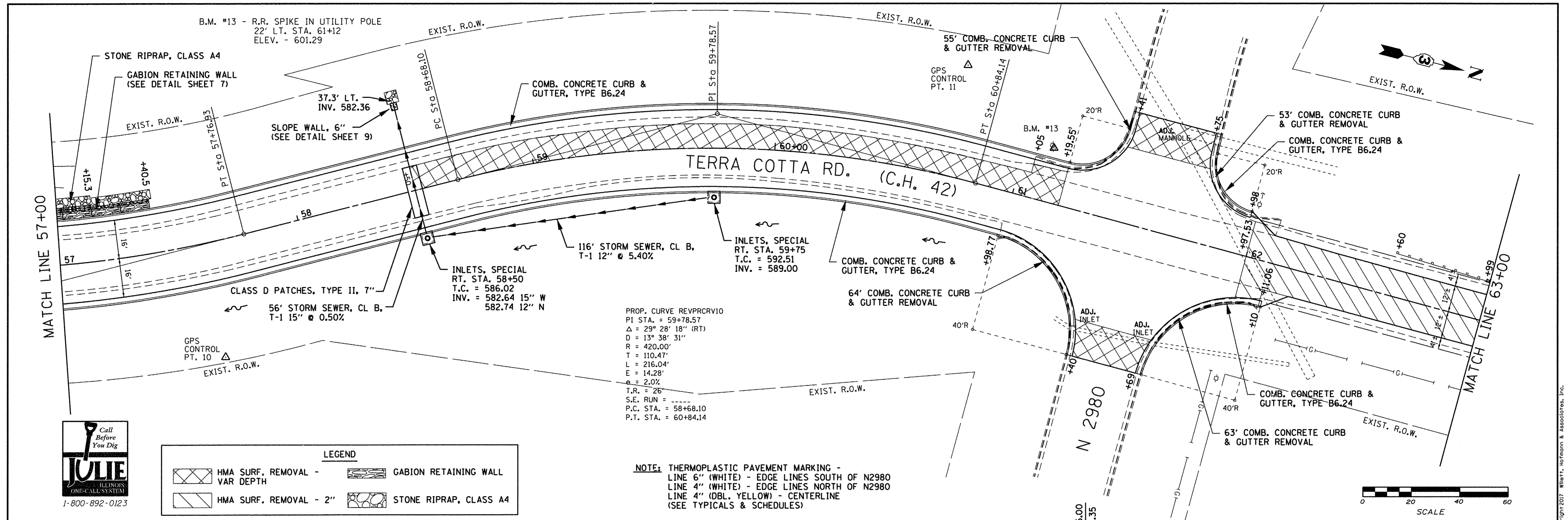


PLAN AND PROFILE
STA. 51+00 TO STA. 57+00

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	23
WHA# 1018D16		CONTRACT NO. 87648		
ILLINOIS		FED. AID PROJECT RS-00990621		

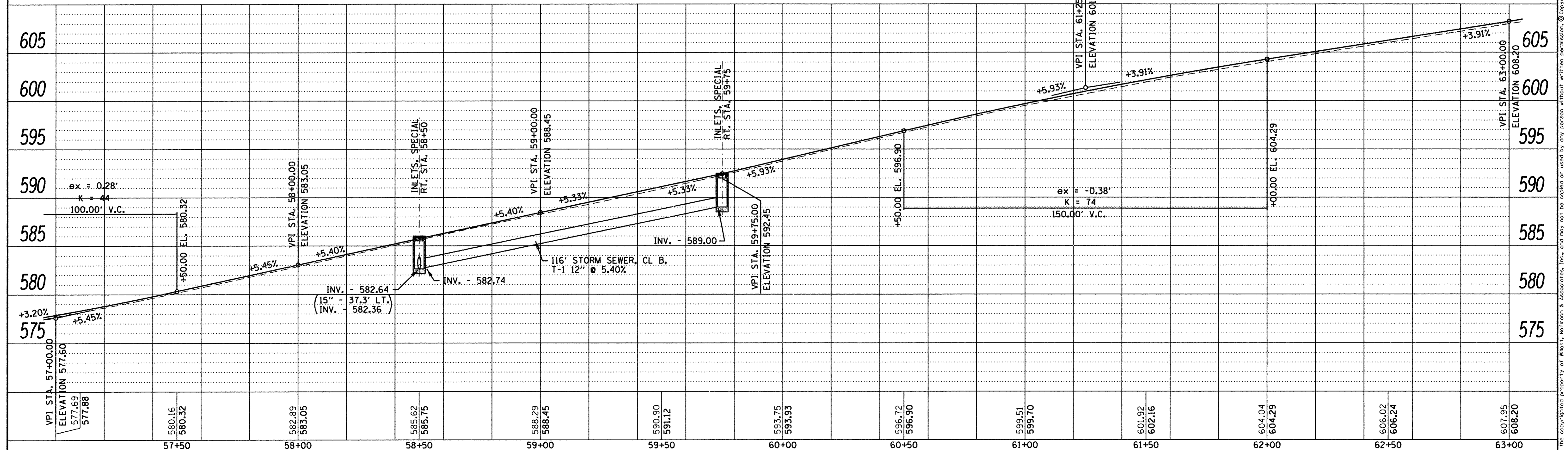
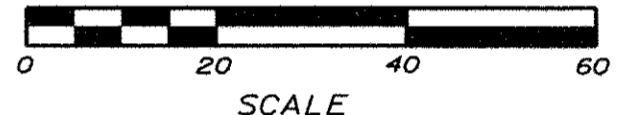
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LEGEND

	HMA SURF. REMOVAL - VAR DEPTH		GABION RETAINING WALL
	HMA SURF. REMOVAL - 2"		STONE RIPRAP, CLASS A4



REVISION	DATE	BY	REMARKS

DRAWN T.B.S.
 CHECKED L.G.N.
 APPROVED M.A.H.

LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
2017



PLAN AND PROFILE

STA. 57+00 TO STA. 63+00

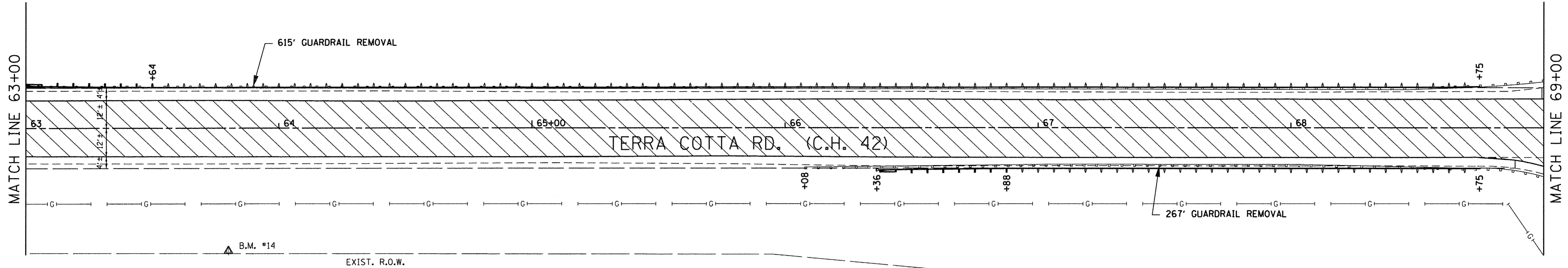
C.H. RTE. 42	SECTION 15-00348-00-WR	COUNTY LASALLE	TOTAL SHEETS 98	SHEET NO. 24
WHA# 1018D16		CONTRACT NO. 87648		
ILLINOIS FED. AID PROJECT RS-00990621				

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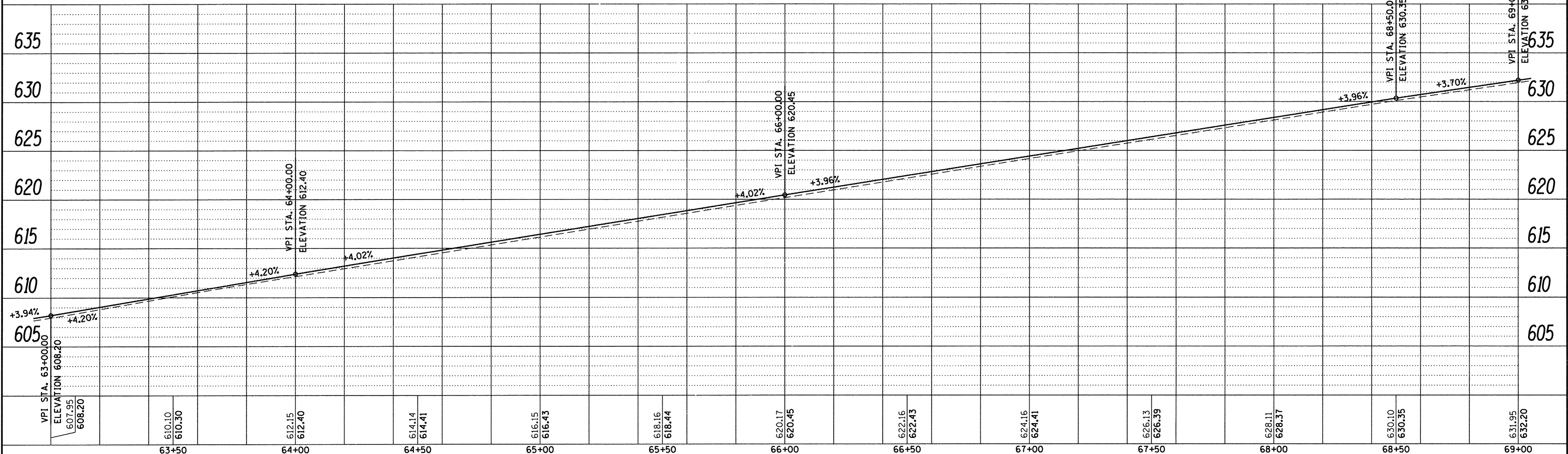
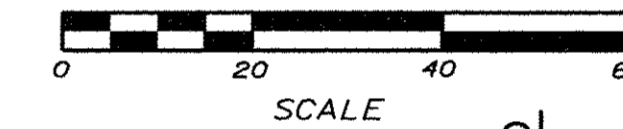
B.M. #14 - SURVEY NAIL IN UTILITY POLE
49' RT. STA. 63+80
ELEV. - 611.19

EXIST. R.O.W.



LEGEND	
	HMA SURF. REMOVAL - VAR DEPTH
	GABION RETAINING WALL
	HMA SURF. REMOVAL - 2"
	STONE RIPRAP, CLASS A4

NOTE: THERMOPLASTIC PAVEMENT MARKING -
LINE 4" (WHITE) - EDGE LINES
LINE 4" (DBL. YELLOW) - CENTERLINE
(SEE TYPICALS & SCHEDULES)



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REVISION	DATE	BY	REMARKS

DRAWN T.B.S.
CHECKED L.G.N.
APPROVED M.A.H.

LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
2017



PLAN AND PROFILE
STA. 63+00 TO STA. 69+00

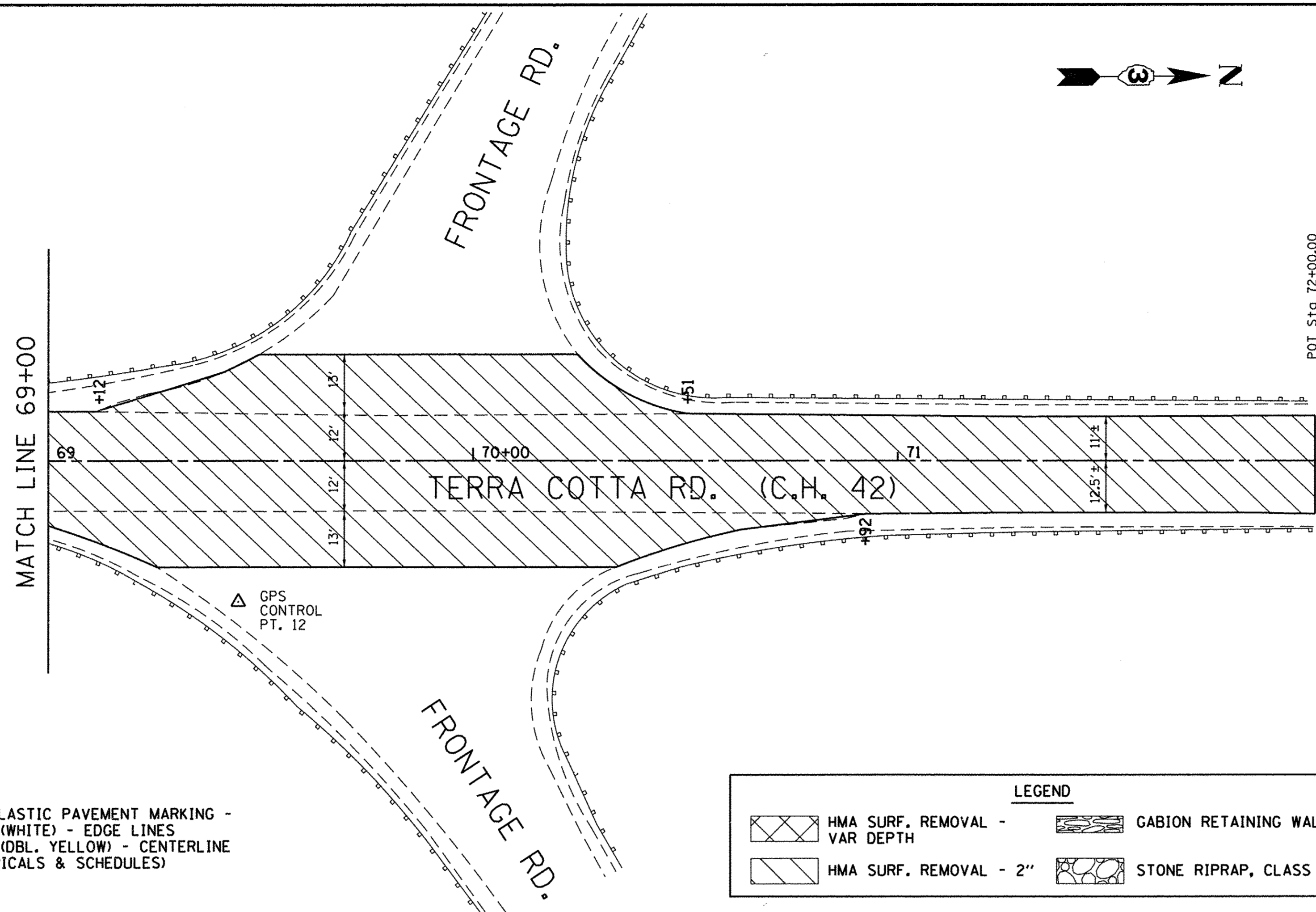
C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	25
WHA# 1018D16		CONTRACT NO. 87648		
ILLINOIS		FED. AID PROJECT RS-00990621		

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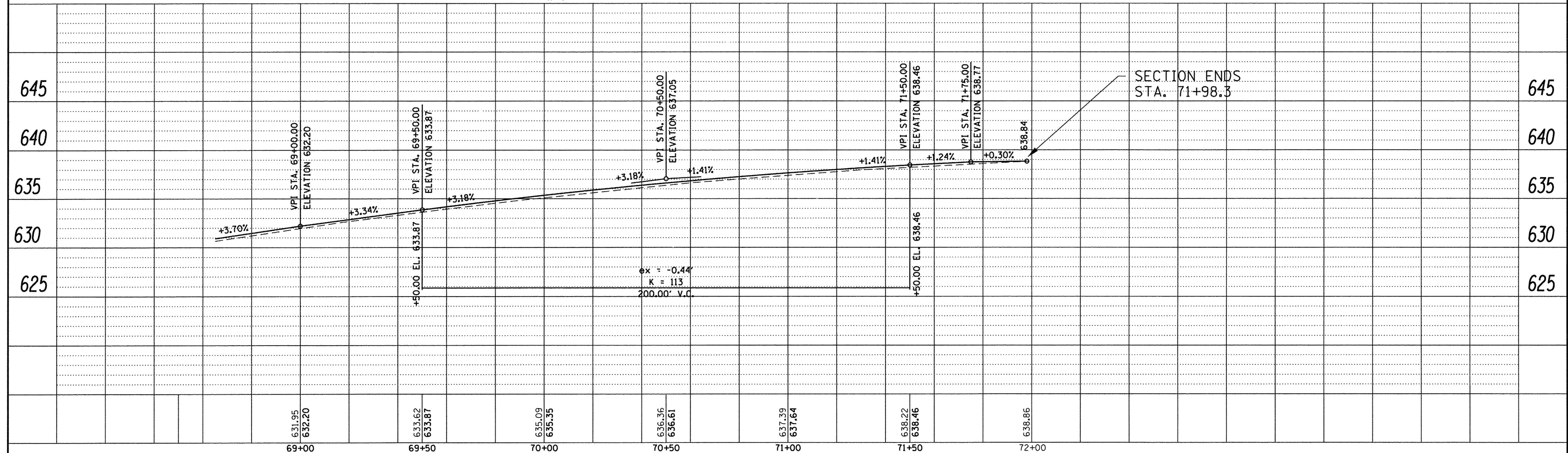
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NOTE: THERMOPLASTIC PAVEMENT MARKING -
 LINE 4" (WHITE) - EDGE LINES
 LINE 4" (DBL. YELLOW) - CENTERLINE
 (SEE TYPICALS & SCHEDULES)



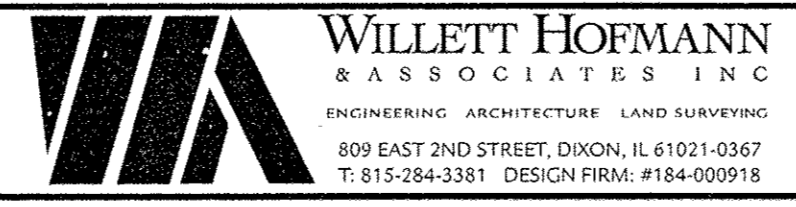
LEGEND	
	HMA SURF. REMOVAL - VAR DEPTH
	HMA SURF. REMOVAL - 2"
	GABION RETAINING WALL
	STONE RIPRAP, CLASS A4



REVISION	DATE	BY	REMARKS

DRAWN T.B.S.
 CHECKED L.G.N.
 APPROVED M.A.H.

LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
2017

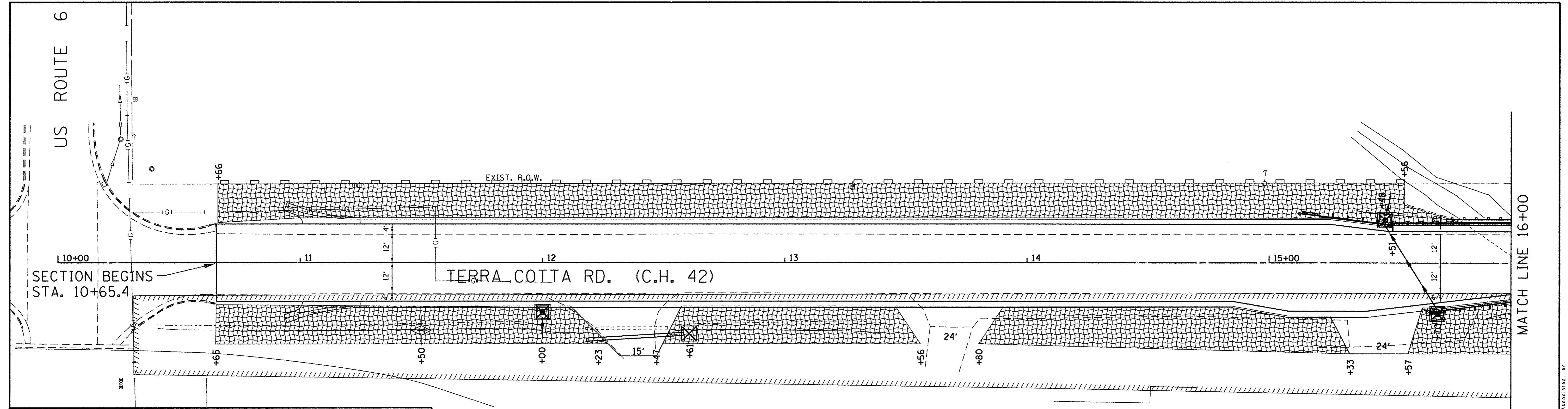


PLAN AND PROFILE
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C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	26
WHA# 1018D16			CONTRACT NO. 87648	
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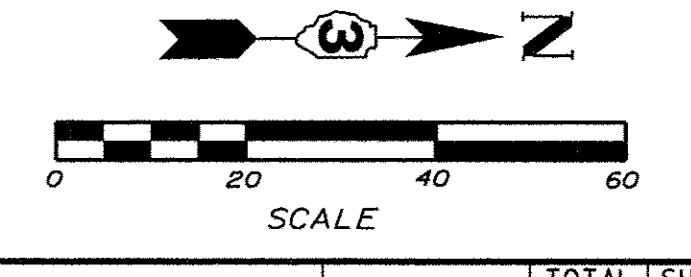
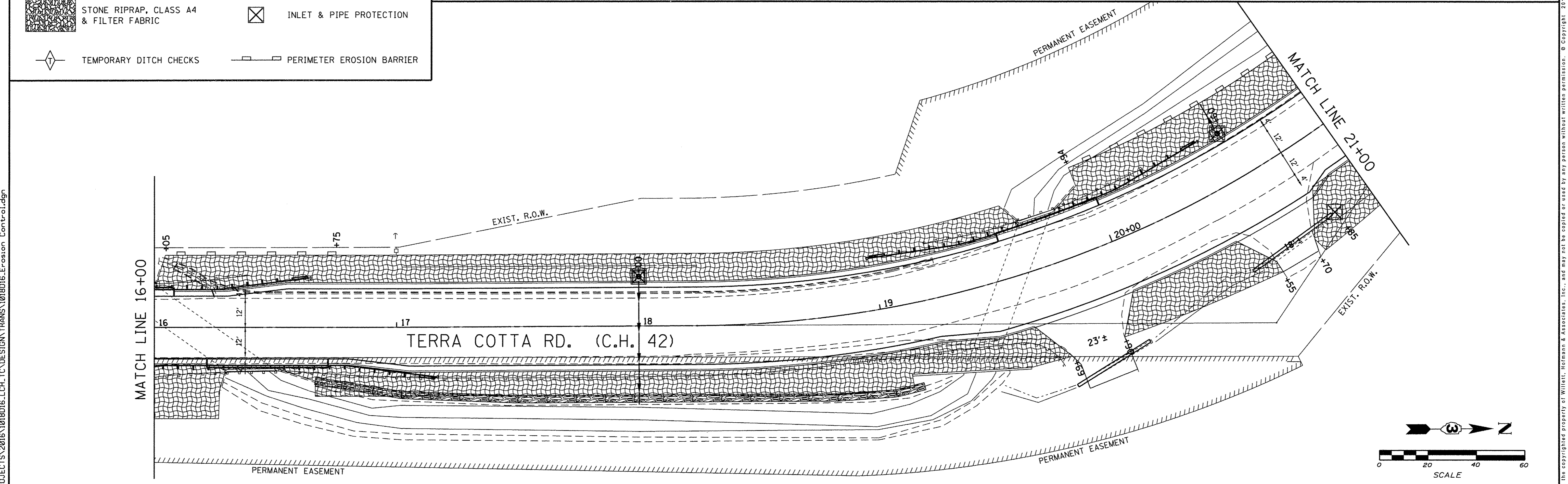
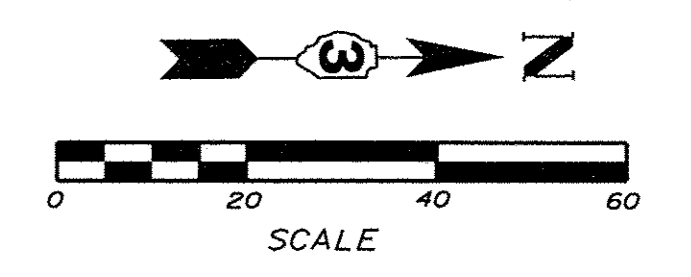
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LEGEND

- SEEDING, CLASS 2 (SPECIAL) & EROSION CONTROL BLANKET
- STONE RIPRAP, CLASS A4 & FILTER FABRIC
- TEMPORARY DITCH CHECKS
- RUNOFF FLOW DIRECTION
- INLET & PIPE PROTECTION
- PERIMETER EROSION BARRIER



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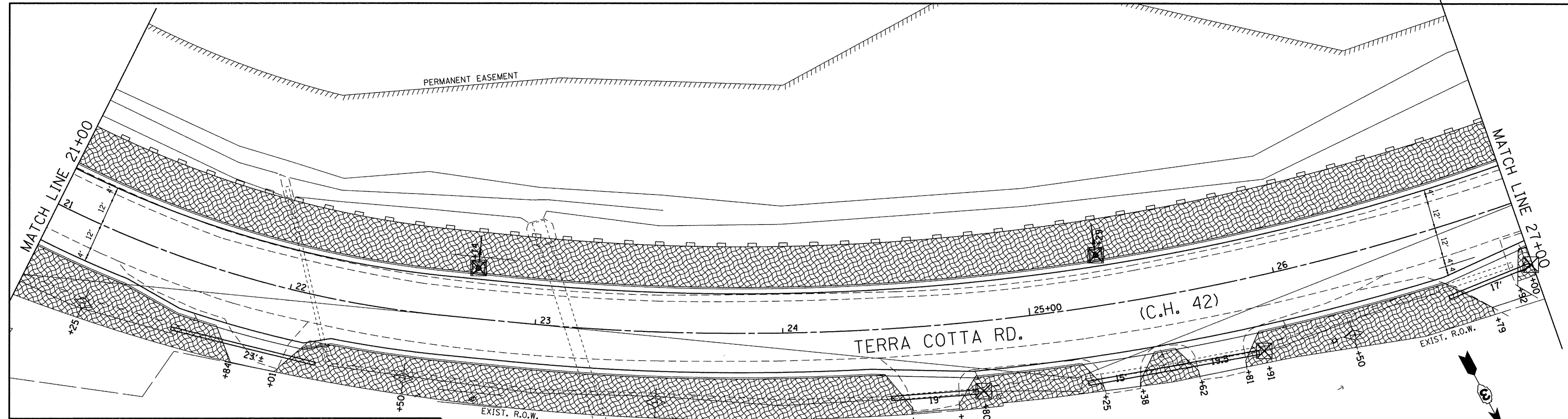
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EROSION CONTROL PLAN
SHEET NO. 1 OF 6 SHEETS

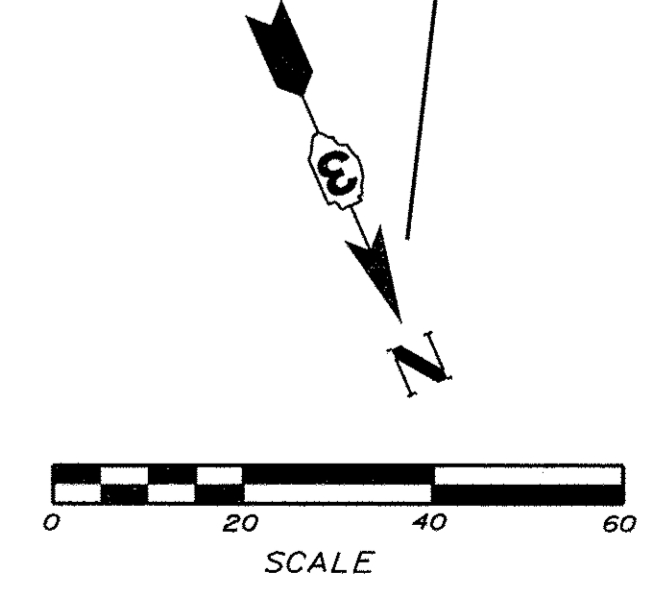
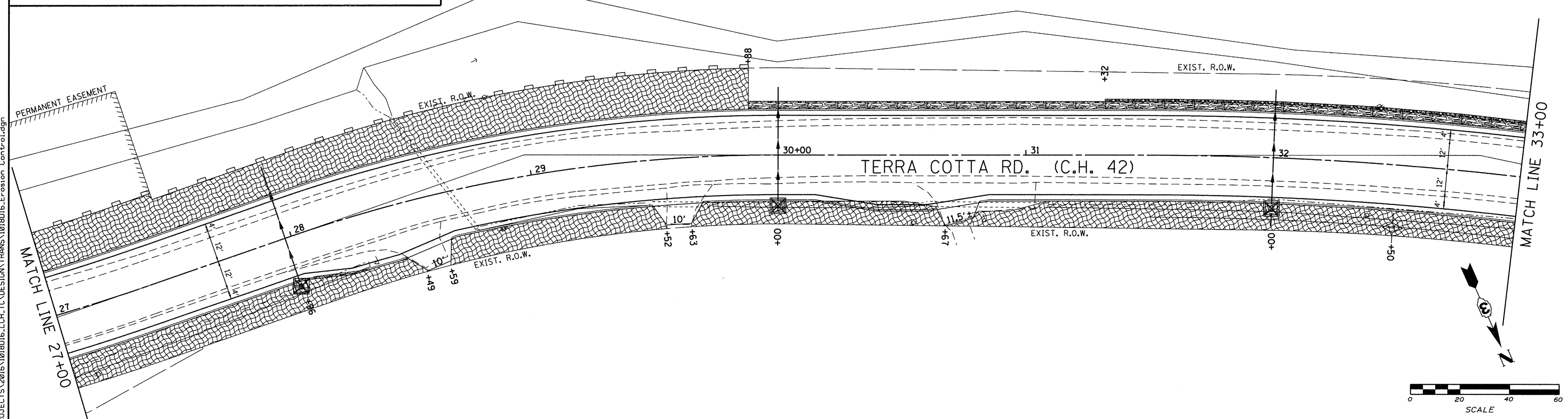
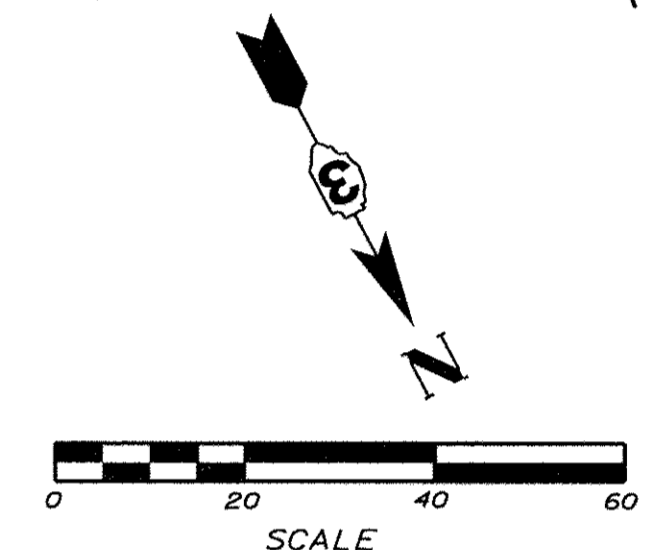
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42	15-00348-00-WR	LASALLE	98	27
WHA# 1018D16		CONTRACT NO. 87648		
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LEGEND

	SEEDING, CLASS 2 (SPECIAL) & EROSION CONTROL BLANKET		RUNOFF FLOW DIRECTION
	STONE RIPRAP, CLASS A4 & FILTER FABRIC		INLET & PIPE PROTECTION
	TEMPORARY DITCH CHECKS		PERIMETER EROSION BARRIER



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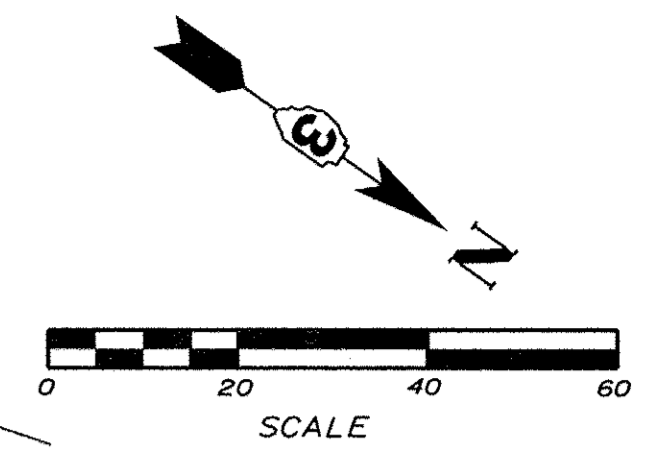
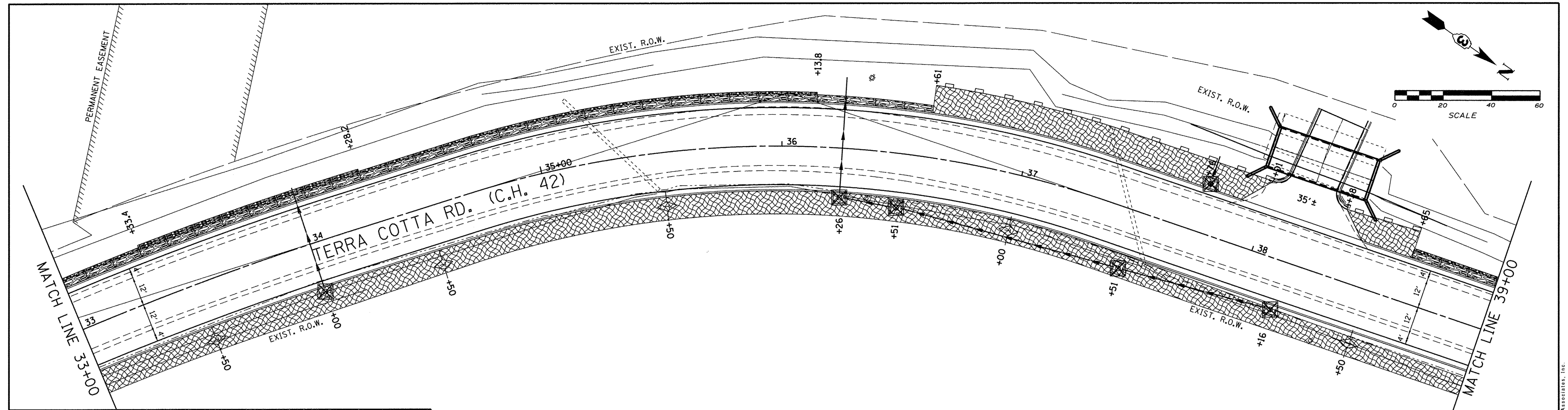
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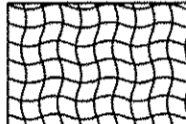

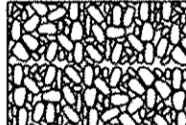

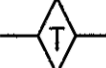
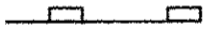
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SHEET NO. 2 OF 6 SHEETS

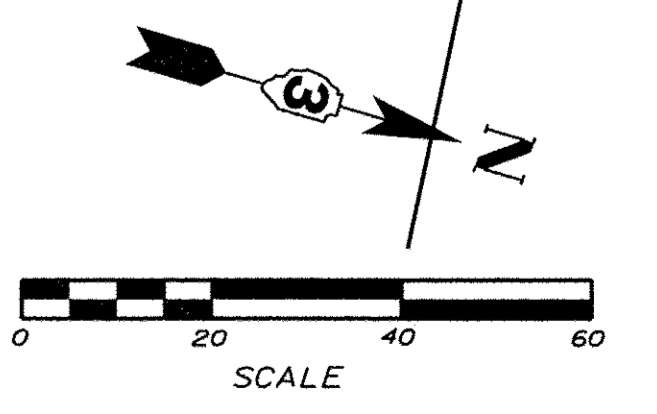
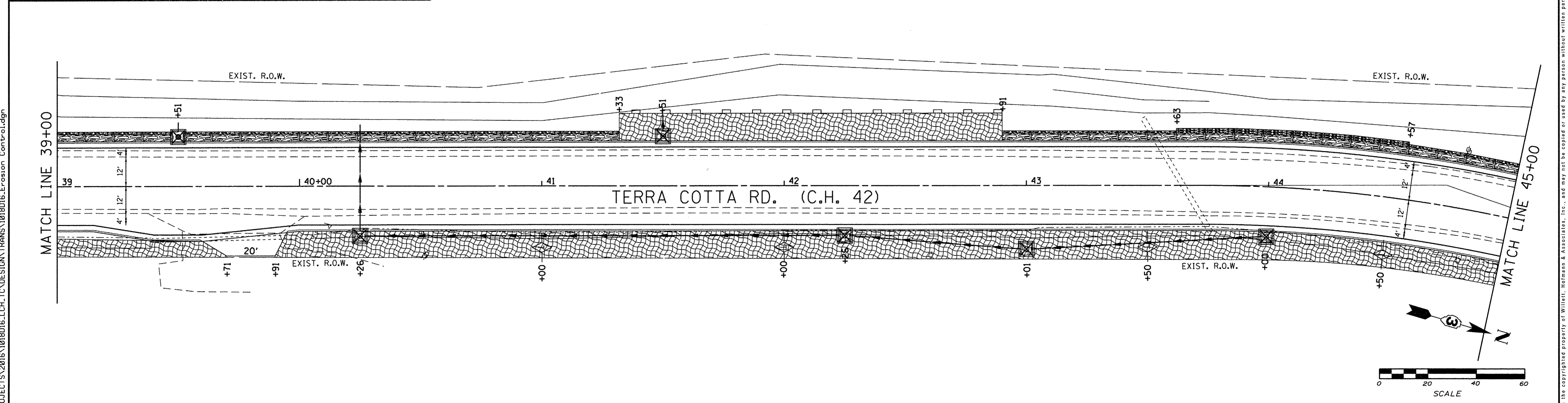
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WHA# 1018D16		CONTRACT NO. 87648		
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	SEEDING, CLASS 2 (SPECIAL) & EROSION CONTROL BLANKET		RUNOFF FLOW DIRECTION
	STONE RIPRAP, CLASS A4 & FILTER FABRIC		INLET & PIPE PROTECTION
	TEMPORARY DITCH CHECKS		PERIMETER EROSION BARRIER




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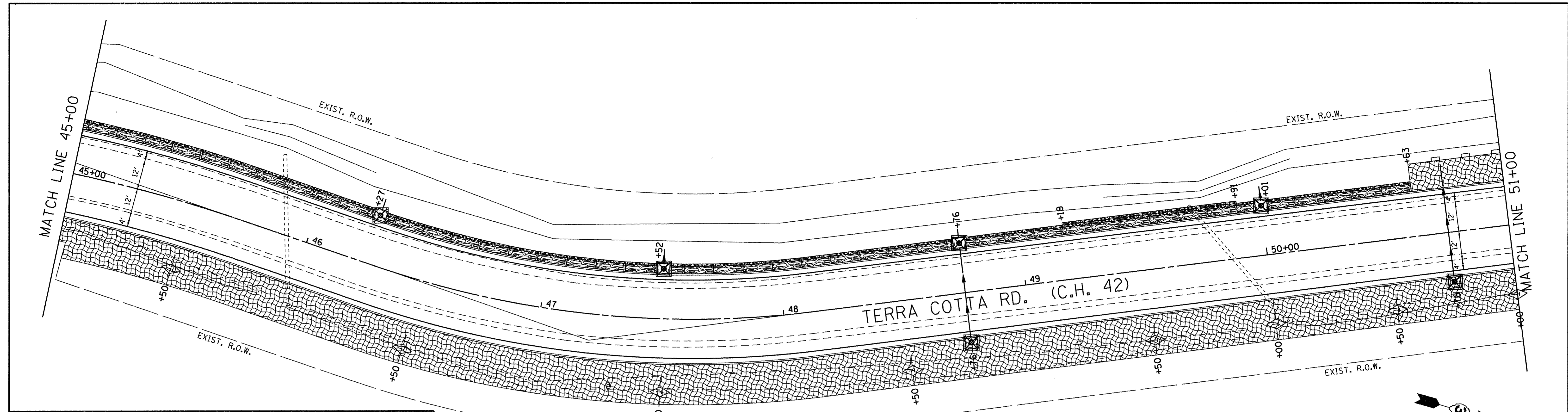


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EROSION CONTROL PLAN
 SHEET NO. 3 OF 6 SHEETS

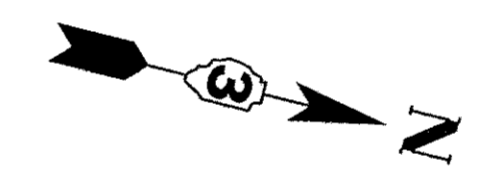
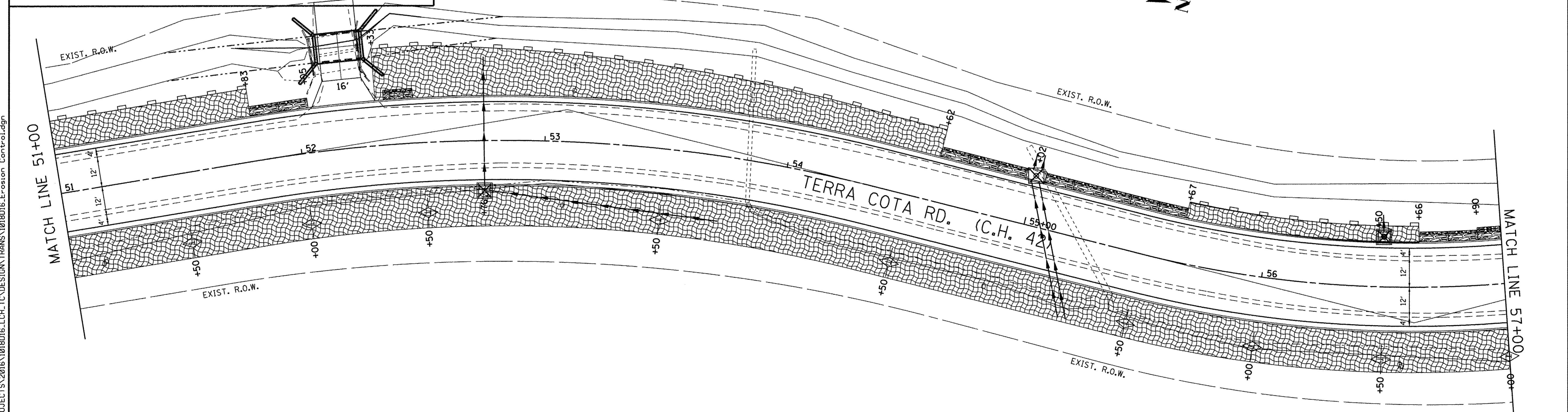
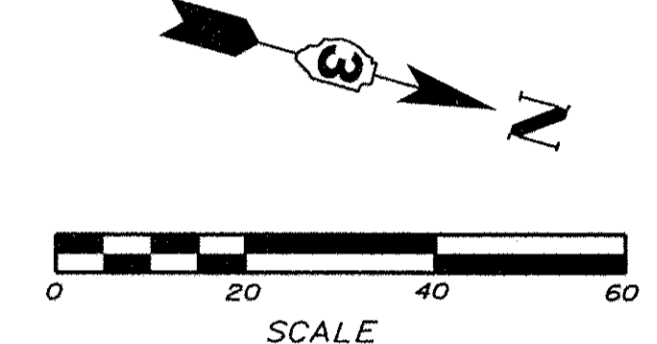
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42	15-00348-00-WR	LASALLE	98	29
WHA# 1018D16		CONTRACT NO. 87648		
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- SEEDING, CLASS 2 (SPECIAL) & EROSION CONTROL BLANKET
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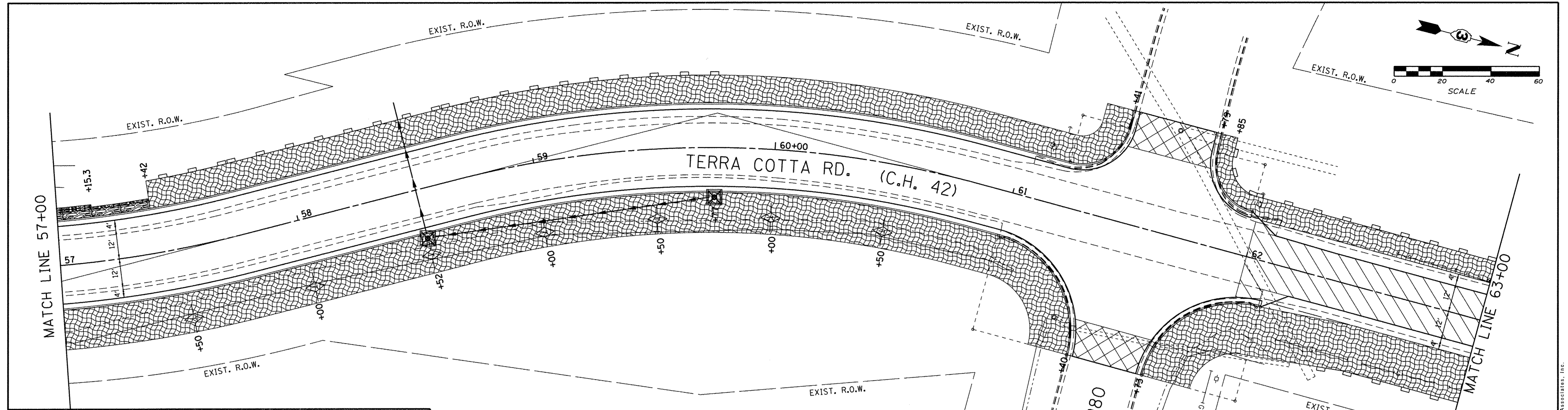
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EROSION CONTROL PLAN
 SHEET NO. 4 OF 6 SHEETS

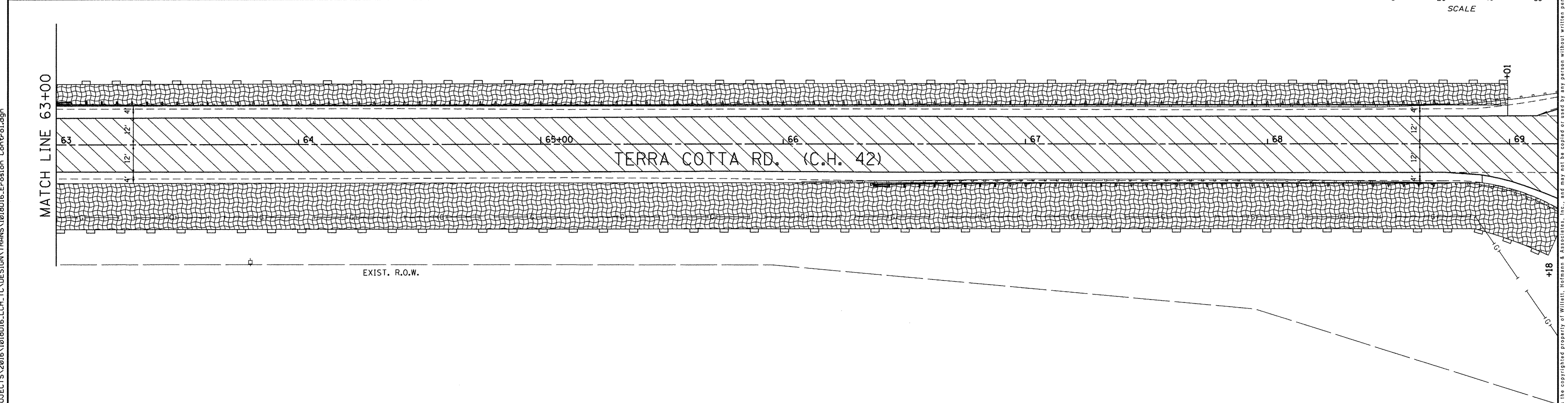
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EROSION CONTROL PLAN
SHEET NO. 5 OF 6 SHEETS

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	31
WHA# 1018D16		CONTRACT NO. 87648		
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STORM WATER POLLUTION PREVENTION PLAN

THE FOLLOWING PLAN IS ESTABLISHED AND INCORPORATED IN THE PROJECT TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM SEWER WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE EROSION WITHIN THE CONSTRUCTION SITE AND TO LIMIT SEDIMENTS FROM LEAVING THE CONSTRUCTION SITE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN EROSION CONTROL FACILITIES SHALL BE INSTALLED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION DEPENDING ON THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL INSTALL PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A TIME FRAME SPECIFIED HEREIN AND AS DIRECTED BY THE ENGINEER, THEREFORE MINIMIZING THE AMOUNT OF AREA SUSCEPTIBLE TO EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE ENGINEER WILL DETERMINE IF ANY TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS, WHICH ARE NOT INCLUDED IN THIS PLAN, SHALL BE ADDED. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 OF THE PLANS.

SECTION 280, TEMPORARY EROSION CONTROL, OF THE STANDARD SPECIFICATIONS ADDITIONALLY SUPPLEMENTS THIS PLAN.

SITE DESCRIPTION

DESCRIPTION OF CONSTRUCTION ACTIVITY:

1. THE PROJECT CONSISTS OF ROADWAY WIDENING, DRAINAGE IMPROVEMENTS, AND RESURFACING ON TERRA COTTA ROAD FROM US ROUTE 6 TO INTERSTATE 80.
2. CONSTRUCTION INCLUDES EARTH EXCAVATION, VARIOUS PAVEMENT ITEMS, CULVERT ITEMS, STORM SEWER ITEMS, AND OTHER MISCELLANEOUS ITEMS OF CONSTRUCTION.

DESCRIPTION OF INTENDED SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE:

1. INSTALL PERIMETER EROSION BARRIER AS DIRECTED BY THE ENGINEER.
2. PIPE CULVERT AND STORM SEWER INSTALLATION.
3. AGGREGATE BASE, CURB AND GUTTER, BITUMINOUS PAVING AND RELATED APPURTENANCES.
4. EARTH EXCAVATION, SHAPING OF DITCHES AND PLACEMENT OF TEMPORARY DITCH CHECKS.
5. PLACEMENT OF PERMANENT EROSION CONTROL INCLUDING SEEDING, AND EROSION CONTROL BLANKET.

AREA OF CONSTRUCTION SITE:

THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 10.1 ACRES OF WHICH 5.1 ACRES WILL BE DISTURBED BY EXCAVATION, GRADING, AND OTHER ACTIVITIES.

OTHER REPORTS, STUDIES AND PLANS WHICH AID IN THE DEVELOPMENT OF THE STORM WATER POLLUTION PREVENTION PLAN AS REFERENCED DOCUMENTS:

1. INFORMATION OF THE SOILS AND TERRAIN WITHIN THE SITE WAS OBTAINED FROM NATIONAL COOPERATIVE SOIL SURVEY MAPS THAT WERE UTILIZED FOR THE DEVELOPMENT OF THE PROPOSED TEMPORARY EROSION CONTROL SYSTEMS.
2. PROJECT PLAN DOCUMENTS, SPECIFICATIONS AND SPECIAL PROVISIONS, AND PLAN DRAWINGS INDICATING DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER GRADING ACTIVITIES WERE UTILIZED FOR THE PROPOSED PLACEMENT OF THE TEMPORARY EROSION CONTROL SYSTEMS.

DRAINAGE TRIBUTARIES AND SENSITIVE AREAS RECEIVING RUNOFF FROM THIS CONSTRUCTION SITE:

A TRIBUTARY TO THE ILLINOIS RIVER.

CONTROLS - EROSION CONTROLS AND SEDIMENT CONTROL

DESCRIPTION OF STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION:

1. THE DRAWINGS, SPECIFICATIONS AND SPECIAL PROVISIONS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. STABILIZATION PRACTICES INCLUDE: TEMPORARY SEEDING, PERMANENT SEEDING, PERIMETER EROSION BARRIER, AND OTHER APPROPRIATE MEASURES AS DIRECTED BY THE ENGINEER. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
 - (A) AREAS OF EXISTING VEGETATION (WOOD AND GRASSLANDS) OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE IDENTIFIED BY THE ENGINEER FOR PRESERVING AND SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES.
 - (B) DEAD, DISEASED, OR UNSUITABLE VEGETATION WITHIN THE SITE SHALL BE REMOVED AS DIRECTED BY THE ENGINEER, ALONG WITH REQUIRED TREE REMOVAL.
 - (C) AS SOON AS REASONABLE ACCESS IS AVAILABLE TO ALL LOCATIONS WHERE WATER DRAINS AWAY FROM THE PROJECT, TEMPORARY DITCH CHECKS AND PERIMETER EROSION BARRIER SHALL BE INSTALLED AS CALLED OUT IN THIS PLAN AND DIRECTED BY THE ENGINEER.

- (D) BARE AND SPARSELY VEGETATED GROUND IN HIGHLY ERODIBLE AREAS AS DETERMINED BY THE ENGINEER SHALL BE TEMPORARILY SEEDED AT THE BEGINNING OF CONSTRUCTION WHERE NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN 7 DAYS.
 - (E) AT LOCATIONS WHERE A SIGNIFICANT AMOUNT OF WATER DRAINS INTO THE CONSTRUCTION ZONE FROM OUTSIDE AREAS (ADJACENT LANDOWNERS), TEMPORARY DITCH CHECKS WILL BE UTILIZED TO LOCALLY DIVERT WATER, REDUCE FLOW RATES, AND COLLECT OUTSIDE SILTATION INSIDE THE RIGHT-OF-WAY LINE.
2. ESTABLISHMENT OF THESE TEMPORARY EROSION CONTROL MEASURES WILL HAVE ADDITIONAL BENEFITS TO THE PROJECT. DESIRABLE GRASS SEED WILL BECOME ESTABLISHED IN THESE AREAS AND WILL SPREAD SEEDS ONTO THE CONSTRUCTION SITE UNTIL PERMANENT SEEDING/MOWING AND OVER SEEDING CAN BE COMPLETED.

DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION:

1. DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS AS OUTLINED PREVIOUSLY HEREIN SHALL BE PROTECTED. THE CONTRACTOR SHALL NOT USE THIS AREA FOR STAGING (EXCEPT AS DESCRIBED ON THE PLANS AND DIRECTED BY THE ENGINEER), PARKING OF VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS, OR OTHER CONSTRUCTION RELATED ACTIVITIES.
 - (A) WITHIN THE CONSTRUCTION LIMITS, AREAS WHICH MAY BE SUSCEPTIBLE TO EROSION AS DETERMINED BY THE ENGINEER SHALL REMAIN UNDISTURBED UNTIL FULL SCALE CONSTRUCTION IS UNDERWAY TO PREVENT UNNECESSARY SOIL EROSION.
 - (B) EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN 14 DAYS.
 - (C) AS CONSTRUCTION PROCEEDS, THE CONTRACTOR SHALL INSTITUTE THE FOLLOWING AS DIRECTED BY THE ENGINEER:
 - I. PLACE TEMPORARY EROSION CONTROL FACILITIES AT LOCATIONS SHOWN ON THE PLANS.
 - II. TEMPORARILY SEED ERODIBLE BARE EARTH ON A WEEKLY BASIS TO MINIMIZE THE AMOUNT OF ERODIBLE SURFACE AREA WITHIN THE CONTRACT LIMITS.
 - (D) EXCAVATED AREAS AND EMBANKMENT SHALL BE PERMANENTLY SEEDED IMMEDIATELY AFTER FINAL GRADING. IF NOT, THEY SHALL BE TEMPORARILY SEEDED IF NO CONSTRUCTION ACTIVITY IN THE AREA IS PLANNED FOR 7 DAYS.
 - (E) CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNATED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR OTHER POLLUTANT IN ACCORDANCE WITH EPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
 - (F) THE RESIDENT ENGINEER SHALL INSPECT THE PROJECT DAILY DURING CONSTRUCTION ACTIVITIES. INSPECTION SHALL ALSO BE DONE WEEKLY AND AFTER RAINS OF 1/2 INCH OR GREATER OR EQUIVALENT SNOWFALL DURING THE WINTER SHUTDOWN PERIOD. THE PROJECT SHALL ADDITIONALLY BE INSPECTED BY THE CONSTRUCTION FIELD ENGINEER ON A BI-WEEKLY BASIS TO DETERMINE THAT EROSION CONTROL EFFORTS ARE IN PLACE AND EFFECTIVE AND IF OTHER EROSION CONTROL WORK IS NECESSARY.
 - (G) SEDIMENT COLLECTED DURING CONSTRUCTION OF THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS AS DIRECTED BY THE ENGINEER. THE COST OF THIS MAINTENANCE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR VARIOUS TEMPORARY EROSION CONTROL PAY ITEMS.
 - (H) THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AFTER USE IS NO LONGER NEEDED OR NO LONGER FUNCTIONING. THE COST OF THIS REMOVAL SHALL BE INCLUDED IN THE UNIT BID PRICE FOR VARIOUS TEMPORARY EROSION CONTROL PAY ITEMS.

DESCRIPTION OF STRUCTURAL PRACTICES AFTER FINAL GRADING

1. TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDED AND ESTABLISHED.
2. ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP, AND DISTURBED TURF RESEEDDED.

MAINTENANCE AFTER CONSTRUCTION

1. CONSTRUCTION IS COMPLETE AFTER ACCEPTANCE BY THE ENGINEER'S FINAL INSPECTION. MAINTENANCE UP TO THIS DATE WILL BE BY THE CONTRACTOR.

MISCELLANEOUS

ALL EROSION CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE SPECIFIED IN THE EROSION CONTROL PLAN. PRIOR TO THE APPROVAL AND USE OF THE PRODUCT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A NOTARIZED CERTIFICATION BY THE PRODUCER STATING THE INTENDED USE OF THE PRODUCT AND THAT THE PHYSICAL PROPERTIES REQUIRED FOR THIS APPLICATION ARE MET OR EXCEEDED. THE CONTRACTOR SHALL PROVIDE MANUFACTURER INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.

EROSION CONTROL NOTES

- TEMPORARY EROSION CONTROL SEEDING SHALL BE APPLIED AT A RATE OF 100 LBS. /ACRES.
- EROSION CONTROL BLANKET SHALL BE INSTALLED TO ALL DISTURBED AREAS WITH SLOPES EQUAL TO OR GREATER THAN 1V:5H AND IN CRITICAL AREAS (I.E. DETENTION BASIN PERIMETERS, STREAMBANKS, BERMS, ETC.) IMMEDIATELY UPON FINAL GRADING.
- ALL ADJACENT STREETS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY AND CLEANED WHEN NECESSARY.
- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE REFERENCED FROM THE ILLINOIS URBAN MANUAL.
- TEMPORARY DITCH CHECKS SHALL COMPLY WITH SECTION 280 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STANDARD 280001 LOCATED IN THE PROPOSAL.
- EROSION CONTROL BLANKET SHALL BE PLACED IN DITCHES AS SHOWN ON THIS EROSION CONTROL PLAN SHEET AND IN ACCORDANCE WITH SECTION 251 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- THE USE OF GREEN DYE IN THE EROSION CONTROL BLANKET IS NOT ACCEPTABLE.
- THE USE OF ASPHALT AS A BINDER IS NOT ACCEPTABLE.
- ALL ITEMS SHALL BE CONSTRUCTED AS SHOWN ON STANDARD 280001 AND AS DIRECTED BY THE ENGINEER. MAINTENANCE AND CLEANING OF THE EROSION CONTROL ITEMS SHALL BE INCLUDED IN THE RESPECTIVE EROSION CONTROL PAY ITEM.

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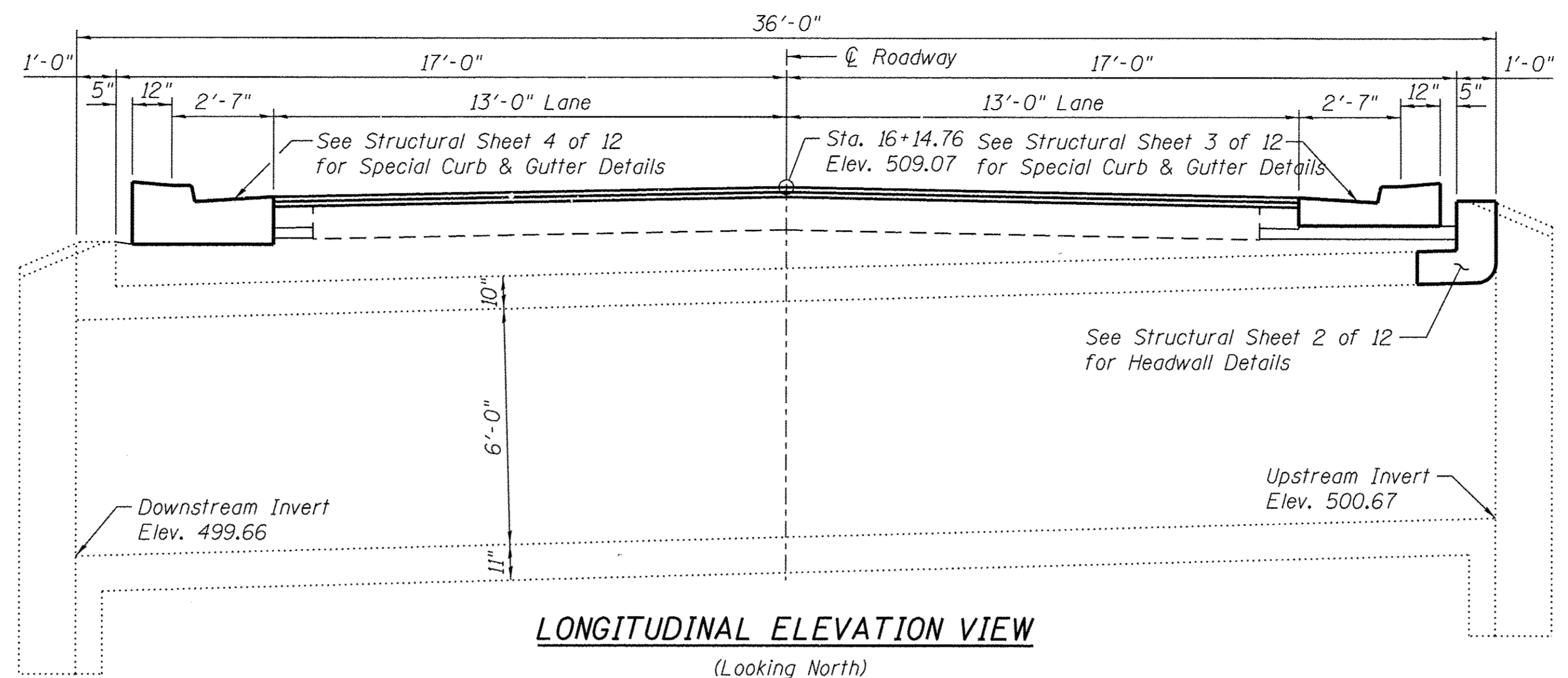


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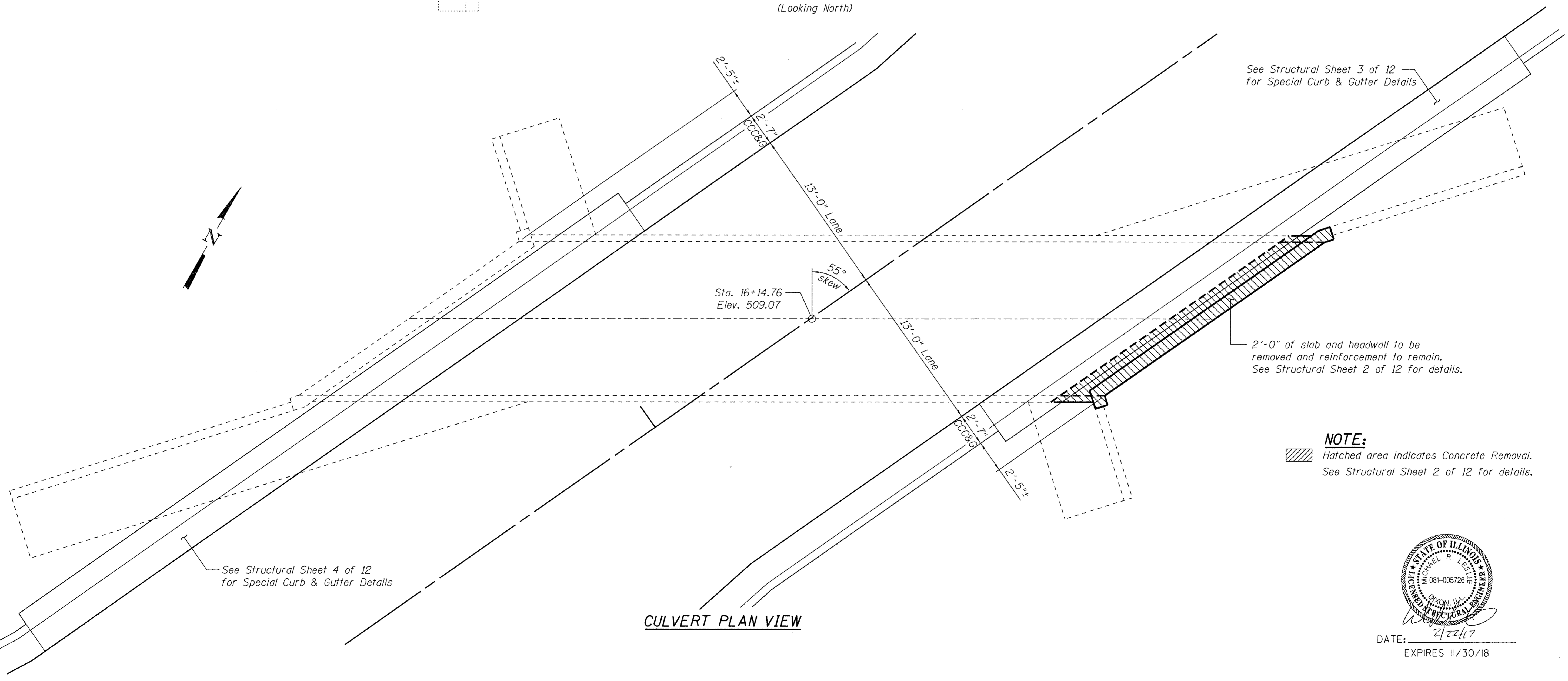
EROSION CONTROL PLAN
SHEET NO. 6 OF 6 SHEETS

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	32
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ILLINOIS FED. AID PROJECT RS-00990621				

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LONGITUDINAL ELEVATION VIEW
(Looking North)



CULVERT PLAN VIEW

NOTE:
Hatched area indicates Concrete Removal.
See Structural Sheet 2 of 12 for details.



DATE: 2/22/17
EXPIRES 11/30/18

FILE = S:\PROJECTS\2016\1018D16.LCH.TC.DESIGN\STRUCT\2D.Dr\Drawings\1018D16.Culvert.Sta. 16+14.76.dgn

REVISION	DATE	BY	REMARKS

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CHECKED
M.C.W.
APPROVED
M.R.L.

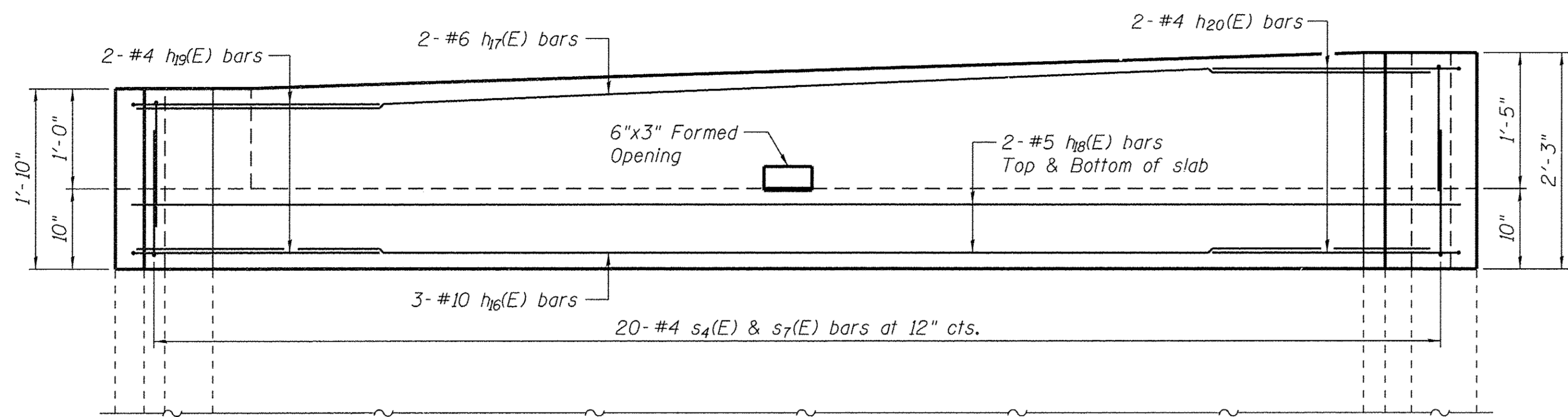
LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
2017

WILLET HOFMANN & ASSOCIATES INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

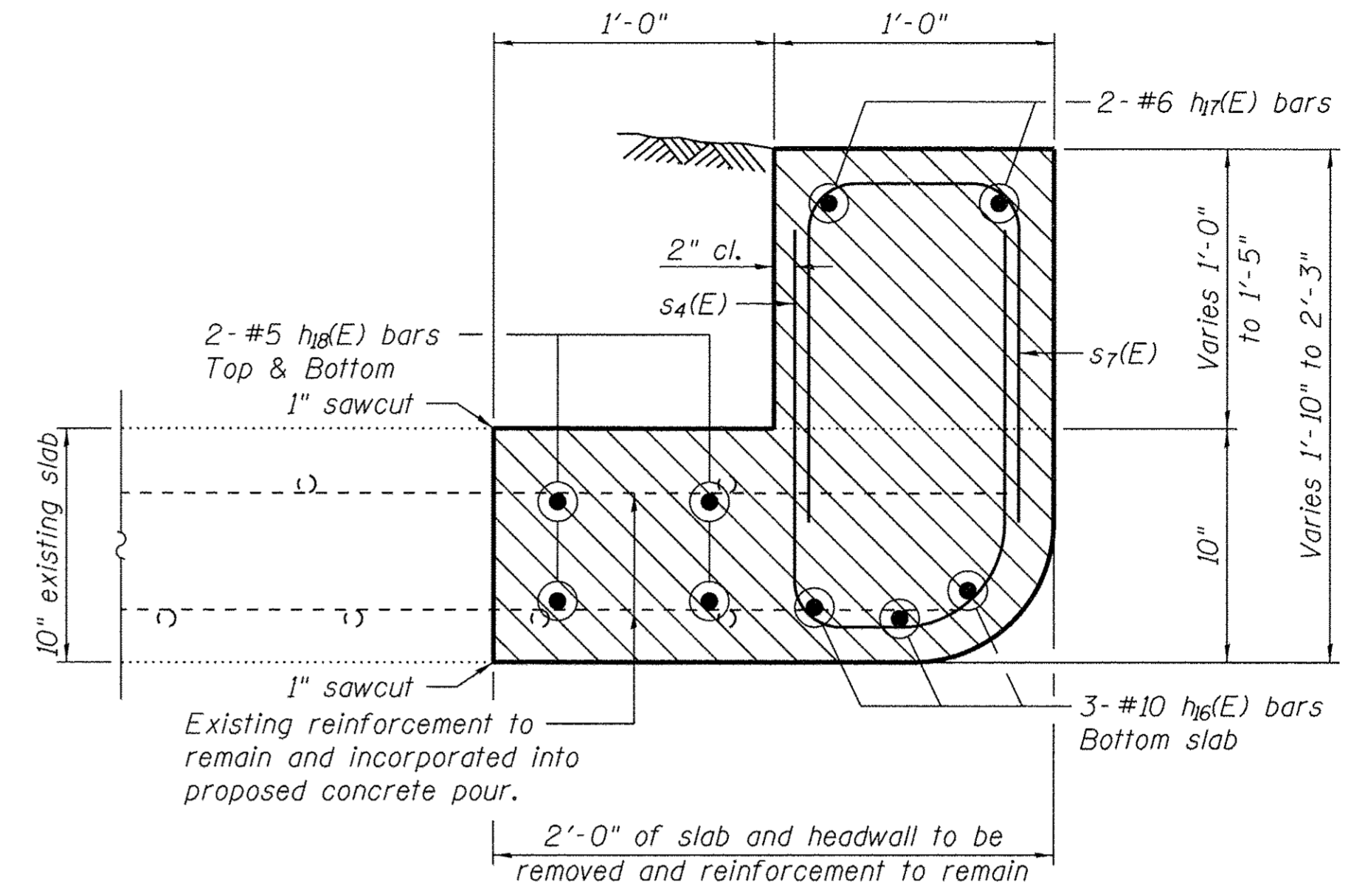
CULVERT DETAILS
STATION 16+14.76
STRUCTURAL SHEET 1 OF 12

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	33
WHA# 1018D16			CONTRACT NO. 87648	
ILLINOIS FED. AID PROJECT RS-00990621				

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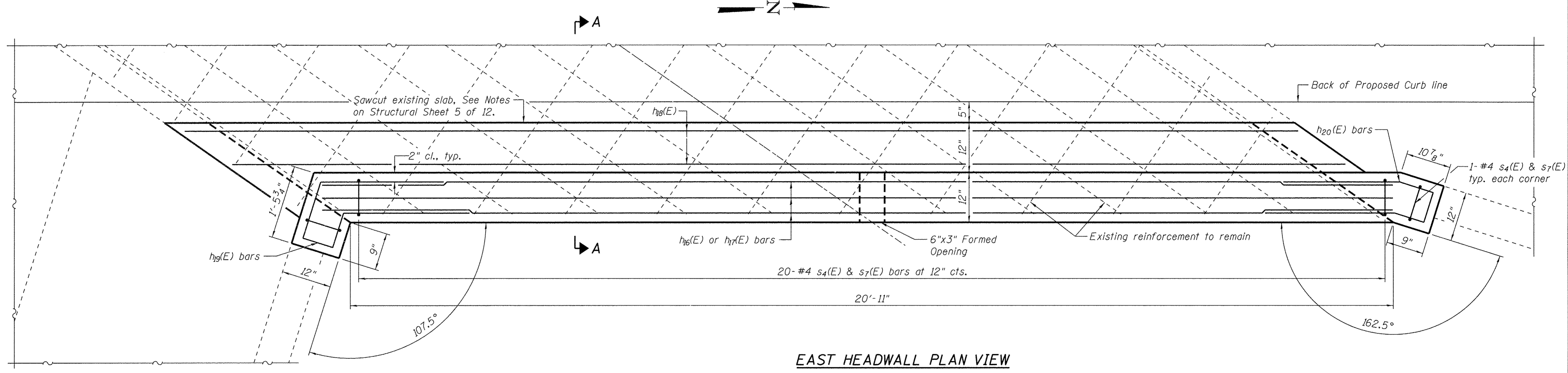


EAST HEADWALL ELEVATION VIEW
(Shown Perpendicular to the culvert opening)



SECTION A-A

NOTES:
 Hatched area indicates Concrete Removal



EAST HEADWALL PLAN VIEW

FILE = S:\PROJECTS\2016\1018D16.LCH-TC\DESIGN STRUCT\20.Dr\swings\1018D16.Culvert.Ste.16+14.76\1018D16.Culvert.Ste.16+14.76.dgn

REVISION	DATE	BY	REMARKS

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M.C.W.
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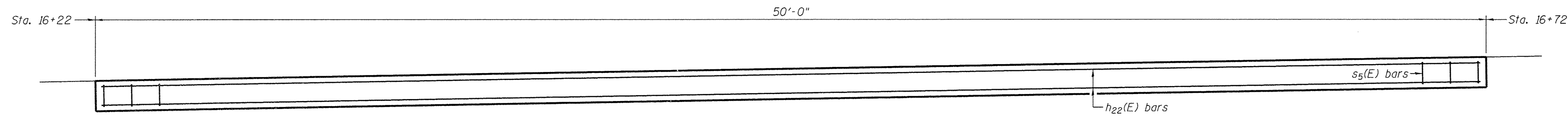
LASALLE COUNTY
 TERRA COTTA RD. (C.H. 42)
 2017

WILLET HOFMANN & ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T: 815-284-3381 DESIGN FIRM: #184-000918

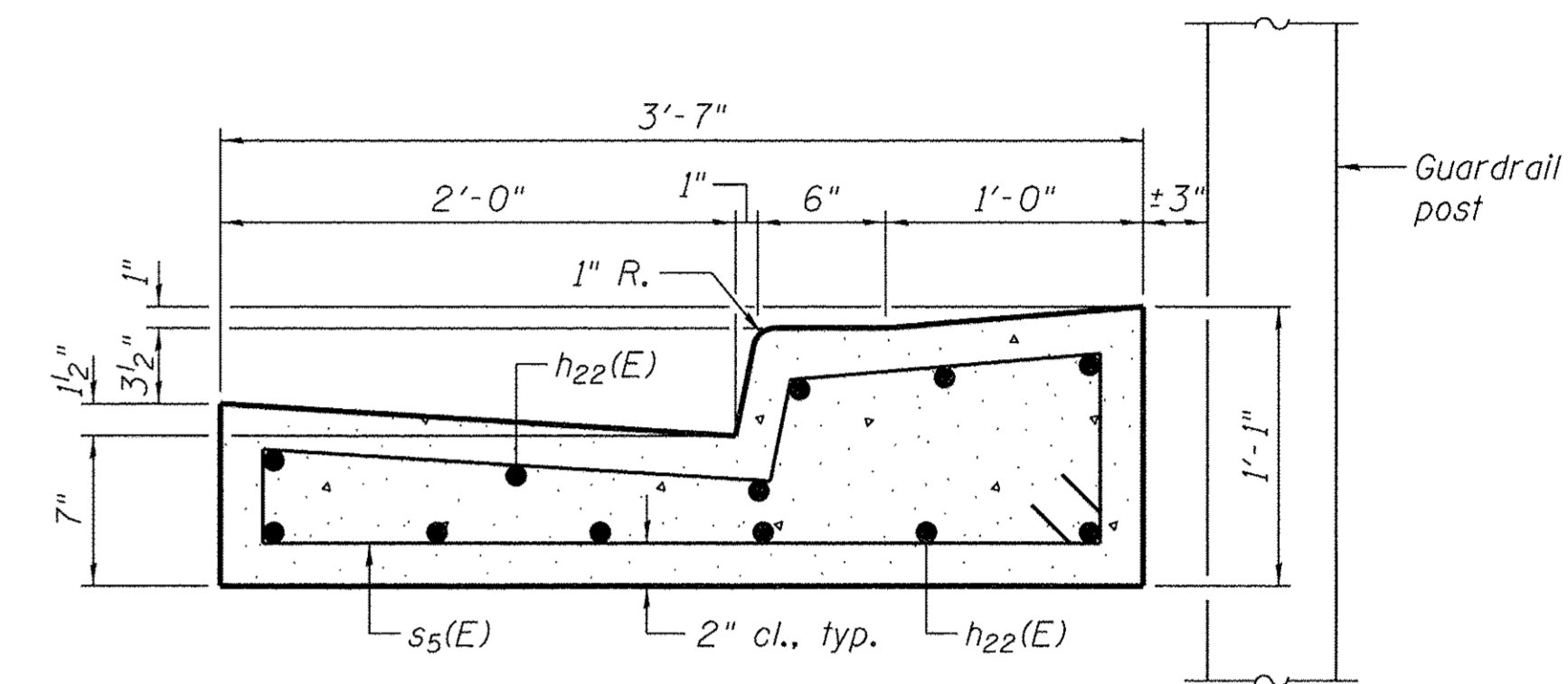
CULVERT HEADWALL DETAILS
 STATION 16+14.76
 STRUCTURAL SHEET 2 OF 12

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	34
WHA # 1018D16		CONTRACT NO. 87648		
ILLINOIS FED. AID PROJECT RS-00990621				

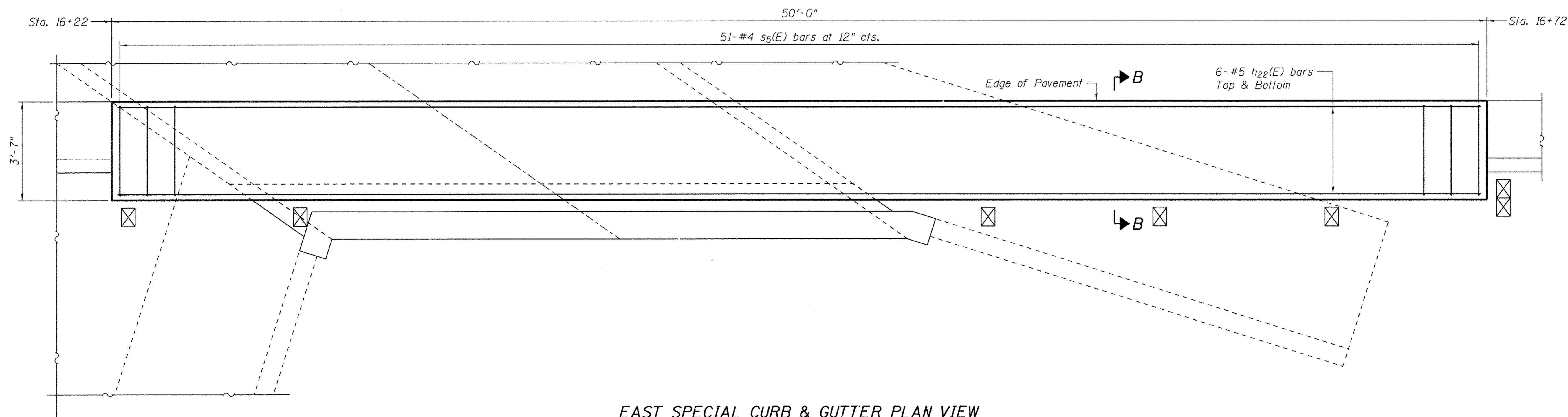
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ELEVATION VIEW
(Looking West)



SECTION B-B



EAST SPECIAL CURB & GUTTER PLAN VIEW

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APPROVED	M.R.L.

LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
2017



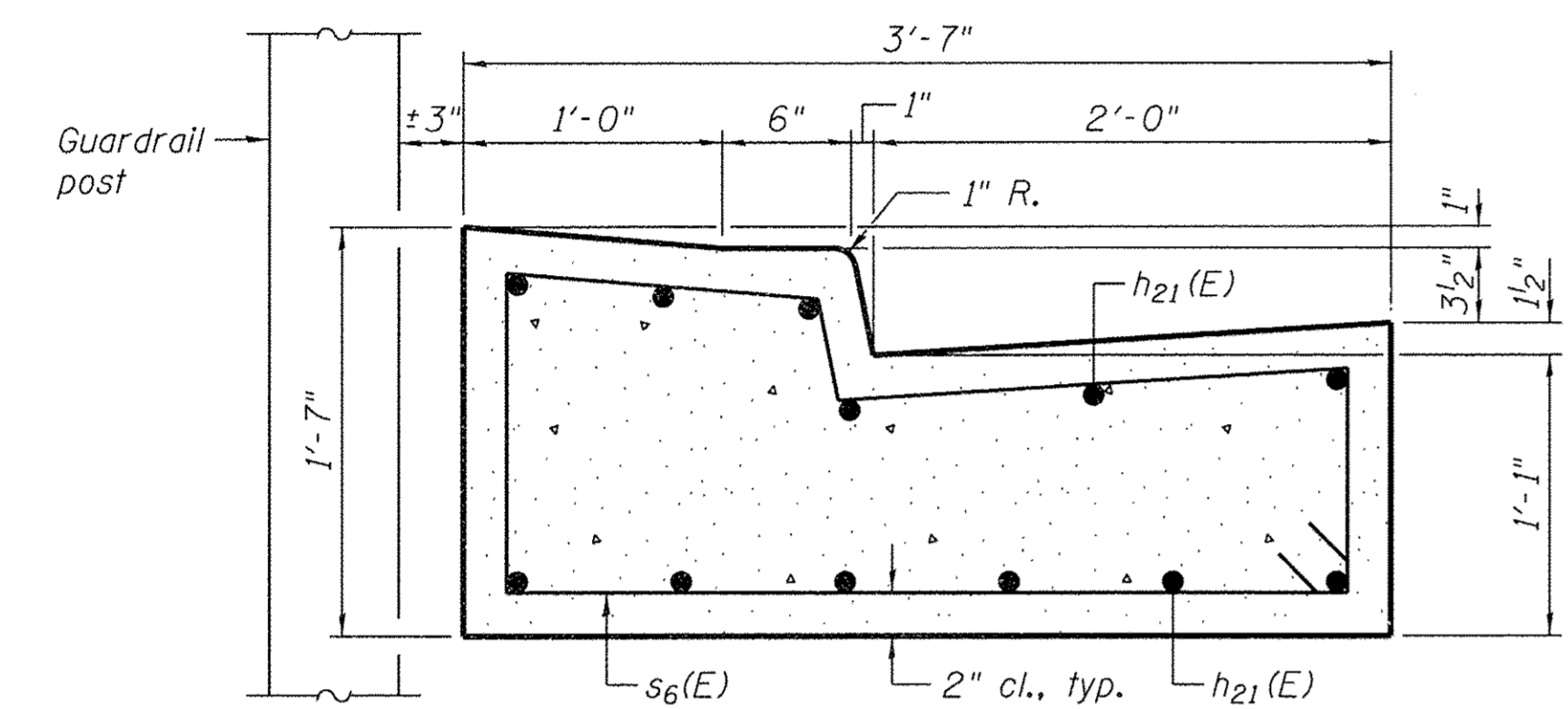
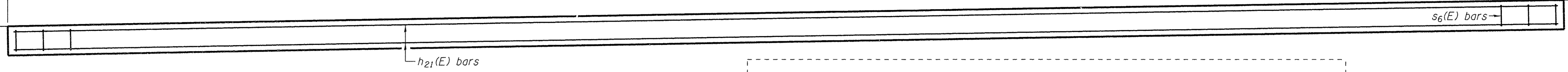
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EAST SPECIAL CURB & GUTTER DETAILS
STATION 16+14.76
STRUCTURAL SHEET 3 OF 12

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	35
WHA# 1018D16		CONTRACT NO. 87648		
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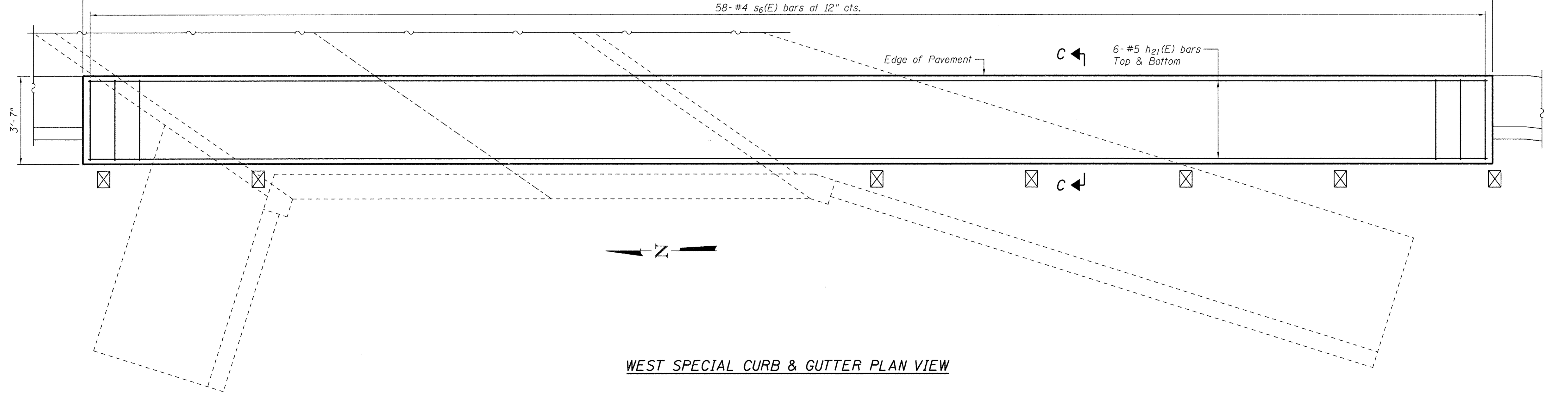
Sta. 16+08 57'-0" Sta. 15+51



SECTION C-C

ELEVATION VIEW
(Looking East)

Sta. 16+08 57'-0" Sta. 15+51



WEST SPECIAL CURB & GUTTER PLAN VIEW

FILE = S:\PROJECTS\2016\1018D16.LCH-TC\DESIGN\STRUCT\2D\Drawings\1018D16_Culvert_Sec_16+14.76.dgn

REVISION	DATE	BY	REMARKS

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APPROVED	M.R.L.

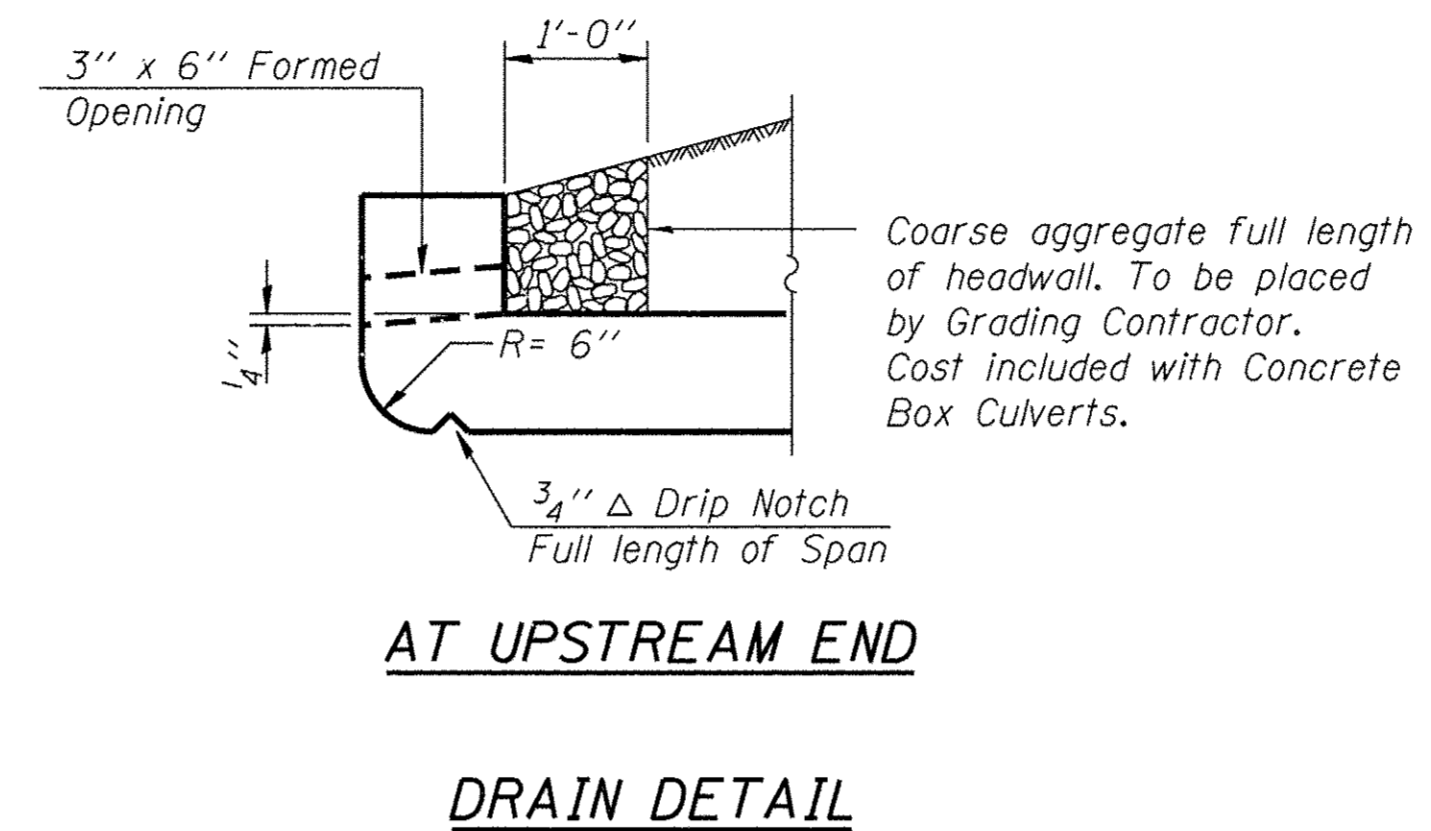
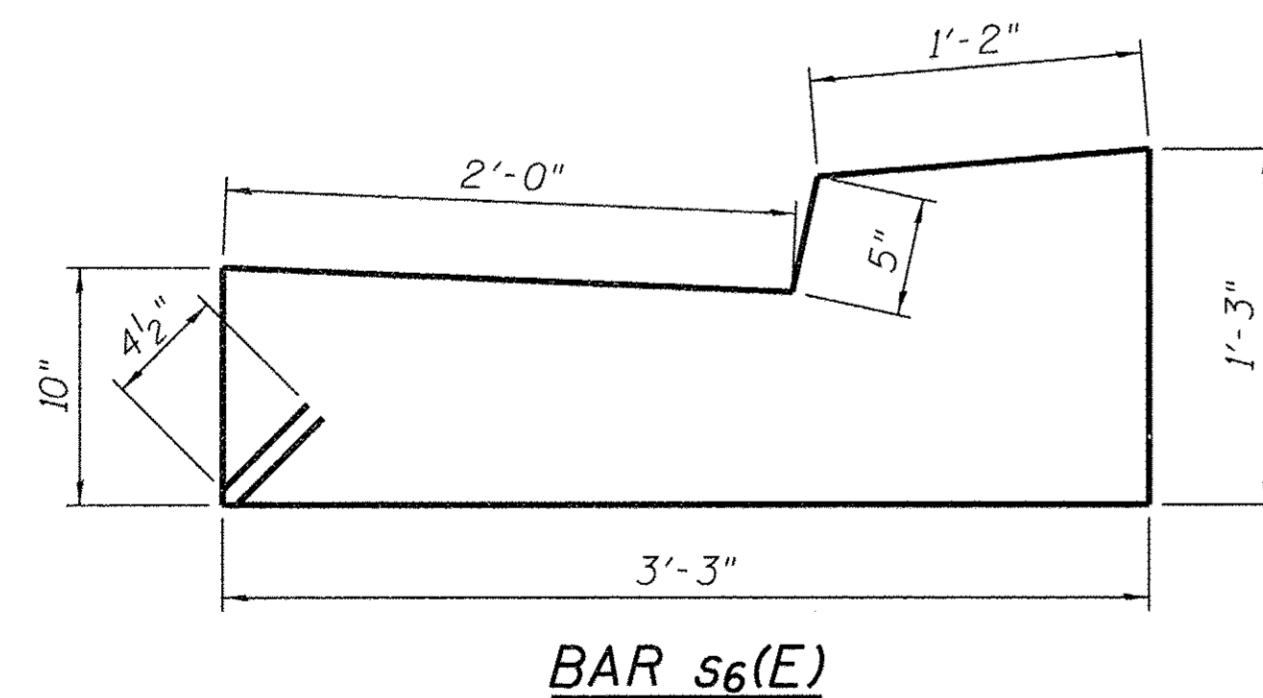
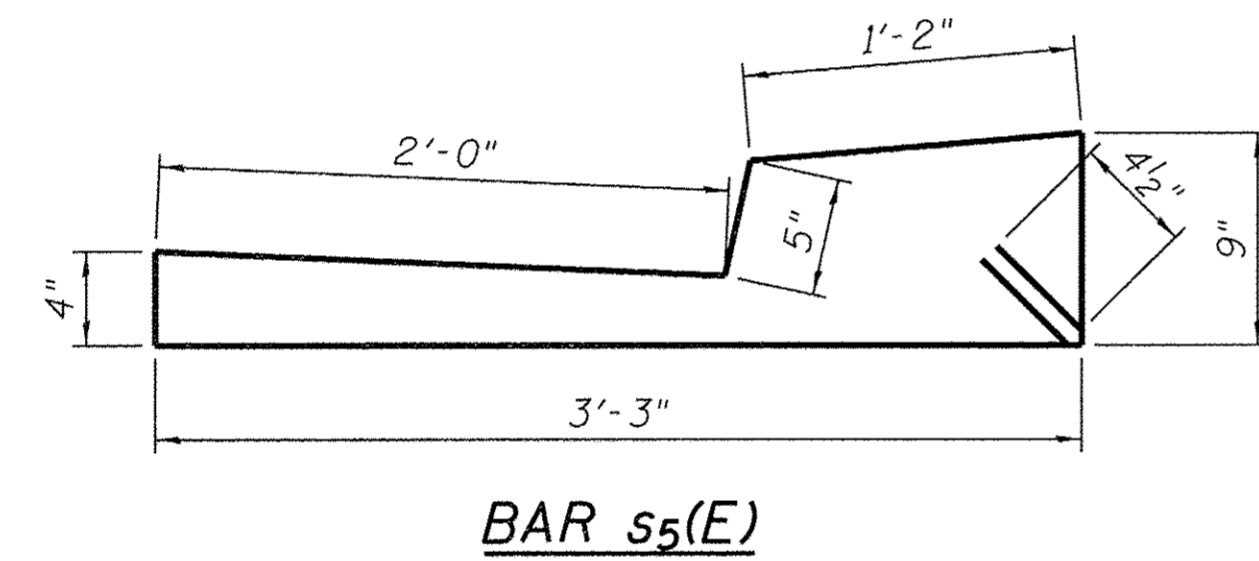
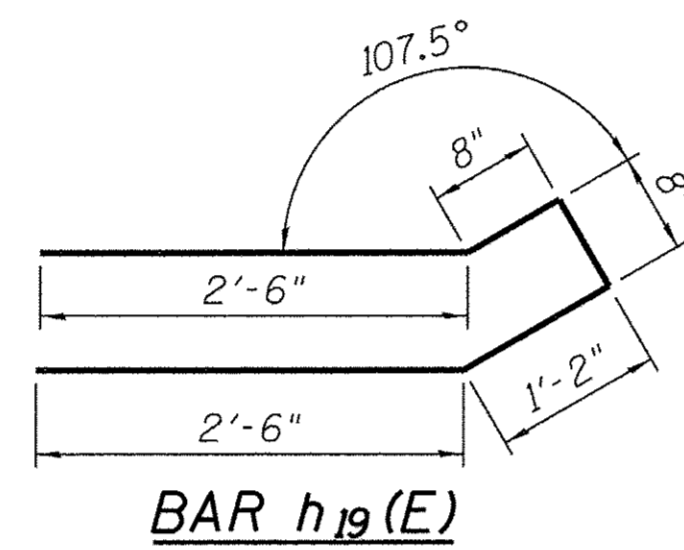
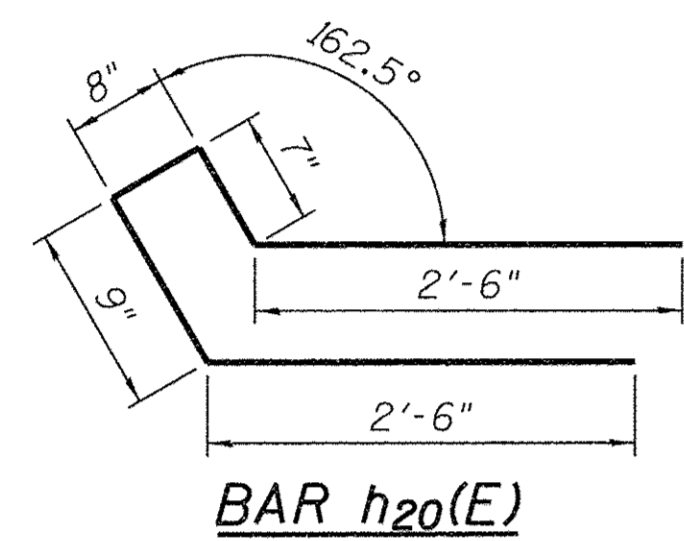
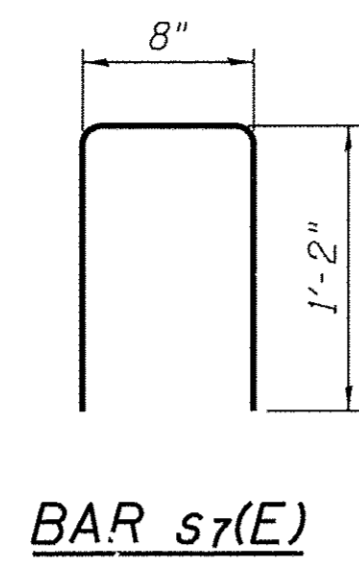
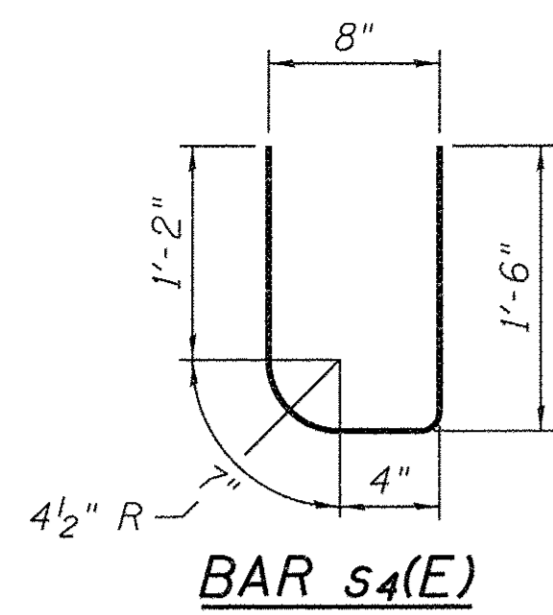
LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
2017

WILLET HOFMANN
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WEST SPECIAL CURB & GUTTER DETAILS
STATION 16+14.76
STRUCTURAL SHEET 4 OF 12

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	36
WHA# 1018D16		CONTRACT NO. 87648		
ILLINOIS FED. AID PROJECT RS-00990621				

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BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h16(E)	3	#10	21'-7"	—
h17(E)	2	#6	21'-7"	—
h18(E)	4	#5	22'-1"	—
h19(E)	2	#4	7'-6"	U
h20(E)	2	#4	7'-0"	U
h21(E)	12	#5	56'-8"	—
h22(E)	12	#5	49'-8"	—
s4(E)	22	#4	3'-7"	U
s5(E)	51	#4	8'-8"	U
s6(E)	58	#4	9'-8"	U
s7(E)	22	#4	3'-0"	U
Concrete Removal			Cu. Yd.	2.4
Concrete Structures			Cu. Yd.	15.3
Concrete Box Culverts			Cu. Yd.	2.4
Reinforcement Bars, Epoxy Coated			Pound	2,550

NOTES:

Contractor shall sawcut 1" deep into existing concrete along removal line, Top and Bottom of slab prior to removal of existing concrete.

Contractor shall exercise care when removing existing concrete. Existing reinforcement bars protruding from existing concrete shall remain and be cast into proposed concrete pour.

Reinforcement bars designated (E) shall be epoxy coated.

All exposed edges shall be chamfered 3/4" unless otherwise noted.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

LOADING HS 20-44

DESIGN STRESSES (PROPOSED)

f'c = 4,000 psi
fy = 60,000 psi (Reinforcement)

DESIGN SPECIFICATIONS

Designed in Accordance with 2002 AASHTO Design Specifications, 17th Edition

FILE = S:\PROJECTS\2016\1018D16.LCH-TC\DESIGN\STRUCT\20-D\Drawings\1018D16-Culvert-Ste. 16+14.76.dgn

REVISION	DATE	BY	REMARKS

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CHECKED M.C.W.
APPROVED M.R.L.

**LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
2017**

WILLET HOFMANN & ASSOCIATES INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

**CULVERT HEADWALL AND SPECIAL CURB & GUTTER DETAILS
STATION 16+14.76**

STRUCTURAL SHEET 5 OF 12

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	37
WHA# 1018D16			CONTRACT NO. 87648	
ILLINOIS FED. AID PROJECT RS-00990621				

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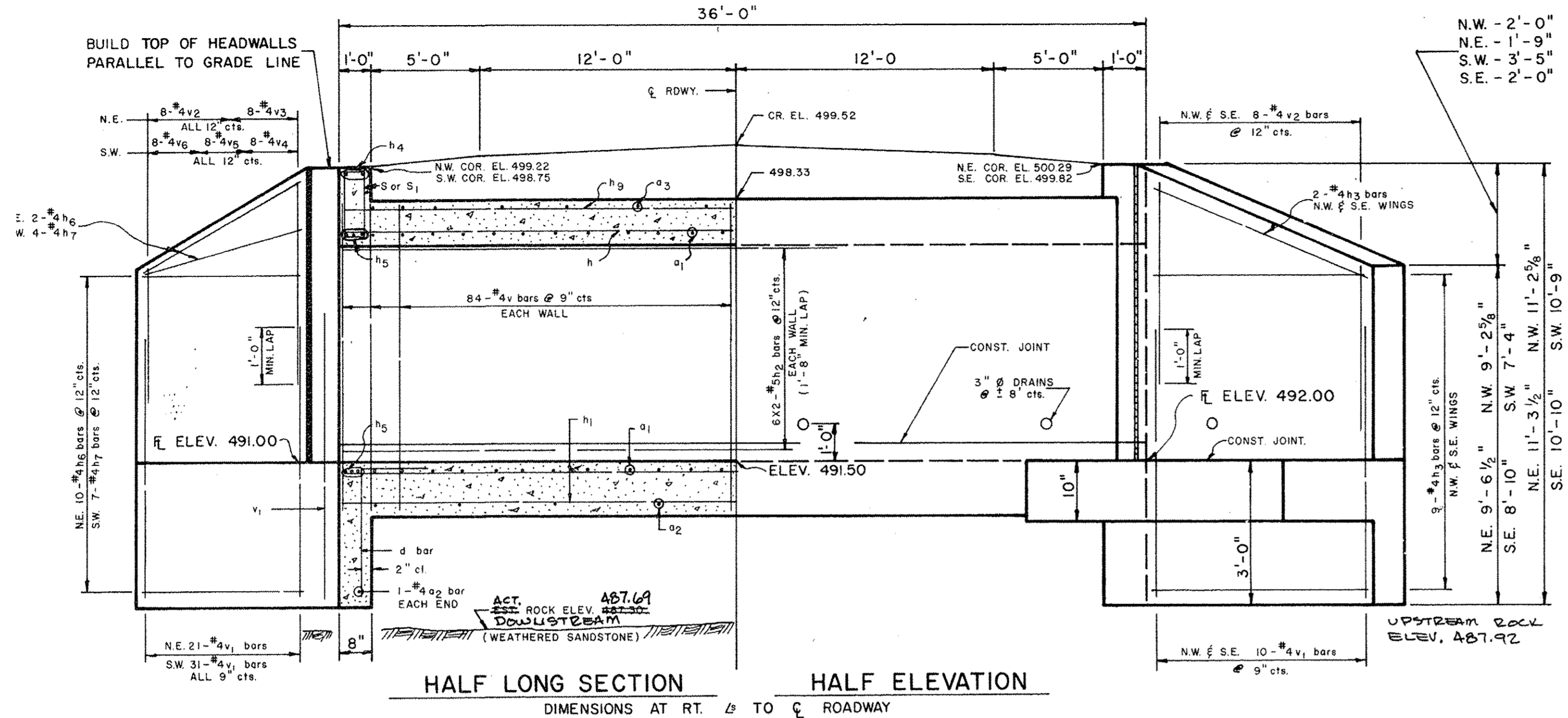
D.M. 3-107/1000 W. SIDE OF POST, S. SIDE OF DATE
 STATION 4+96 - 53' RT.
 ELEVATION - 496.80

Section 81-00329-00-BR
 LaSalle County
 Sheet 7 of 21

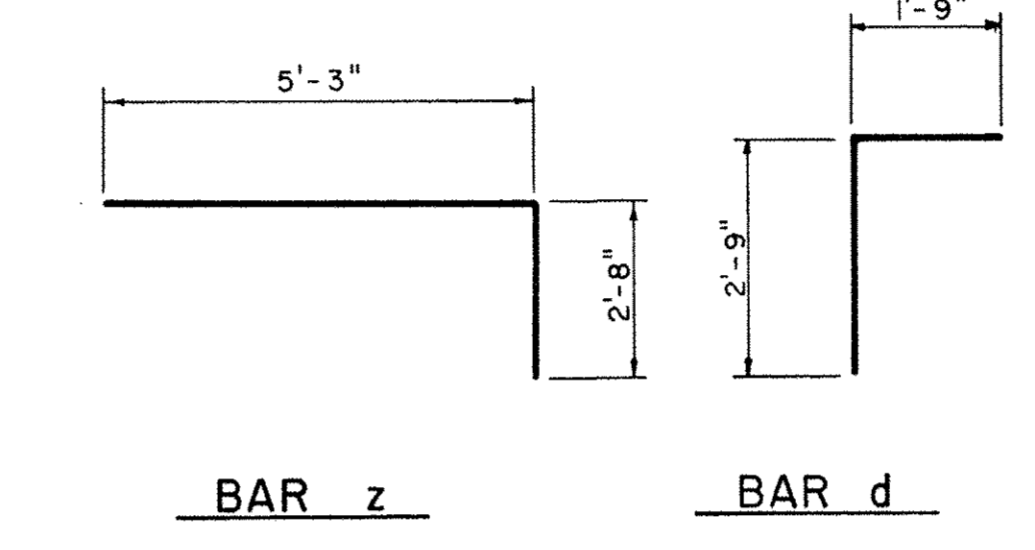
GENERAL NOTES

CLASS X CONCRETE SHALL BE USED THROUGHOUT.
 EXPOSED EDGES SHALL BE BEVELED 3/4".
 FOR BACKFILLING AND EMBANKMENT SEE STD.
 SPECS.
 REINFORCEMENT BARS SHALL CONFORM TO THE
 REQUIREMENTS OF A.A.S.H.T.O. M-31 OR
 M-33, GRADE 60.
 BARS INDICATED THUS 12 x 4 - #5 INDICATES
 12 LINES OF BARS WITH 4 LENGTHS PER LINE.
 WINGWALL DIMENSIONS REFER TO THE SPECIFIED
 DIRECTIONAL CORNER OF THE STRUCTURE.
 NONMETALLIC WATER SEAL USED IN THE WINGWALL
 JOINTS SHALL EXTEND FROM THE TOP OF THE
 FOOTING TO WITHIN 6" OF THE TOP OF THE
 HEADWALL.

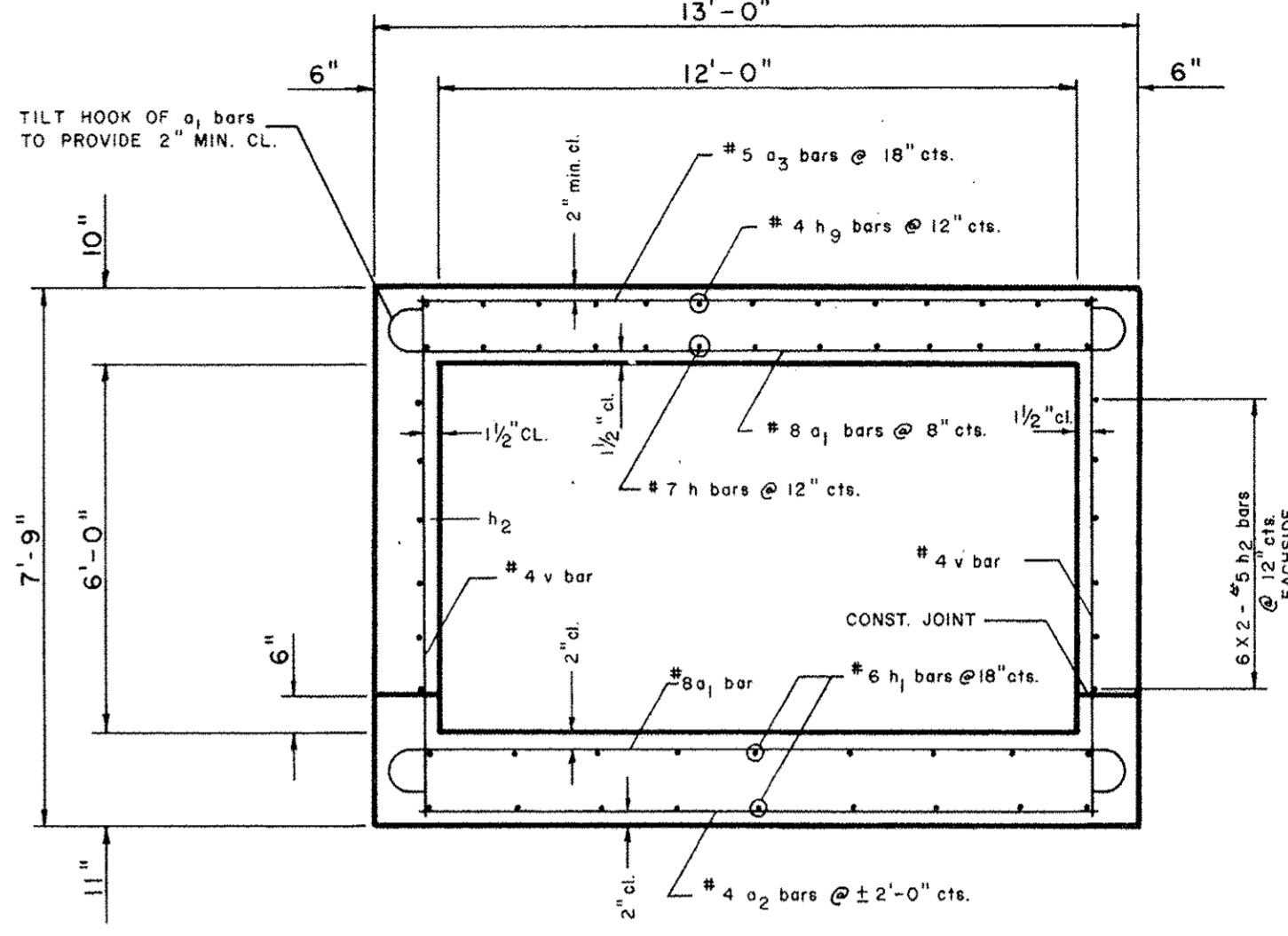
*SEE SHEET 9A FOR DETAIL OF STEEL
 RAILING, TY-S-1 AND POST SPACING.



HALF LONG SECTION HALF ELEVATION
 DIMENSIONS AT RT. B TO C ROADWAY



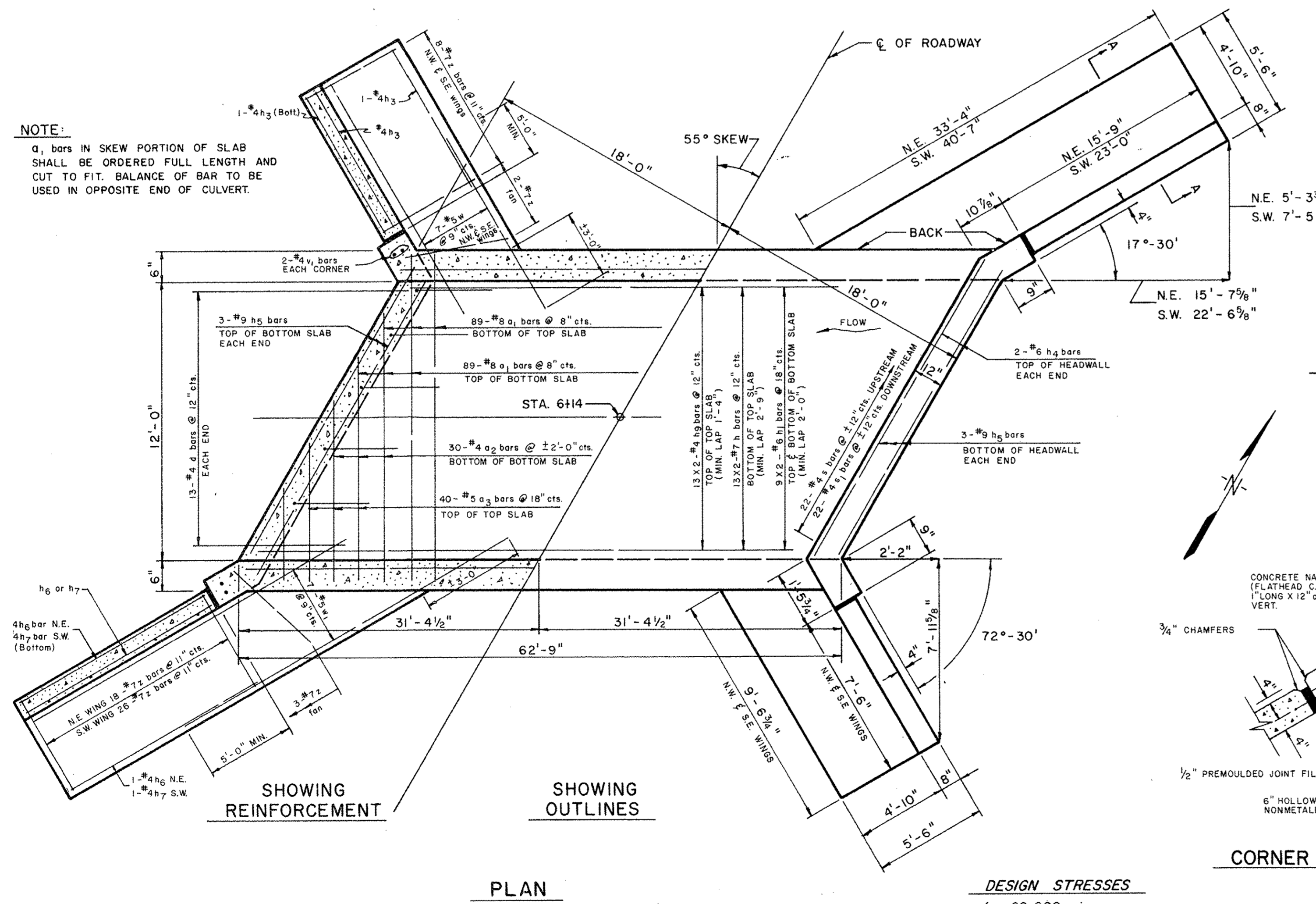
BAR z BAR d



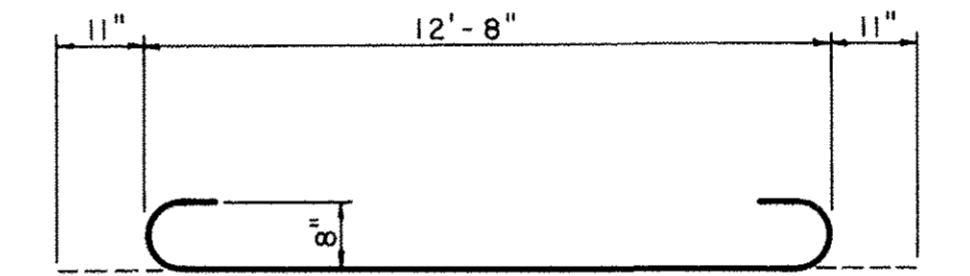
SECTION THRU BARREL

FOR INFORMATION ONLY

NOTE:
 a1 bars IN SKEW PORTION OF SLAB
 SHALL BE ORDERED FULL LENGTH AND
 CUT TO FIT. BALANCE OF BAR TO BE
 USED IN OPPOSITE END OF CULVERT.

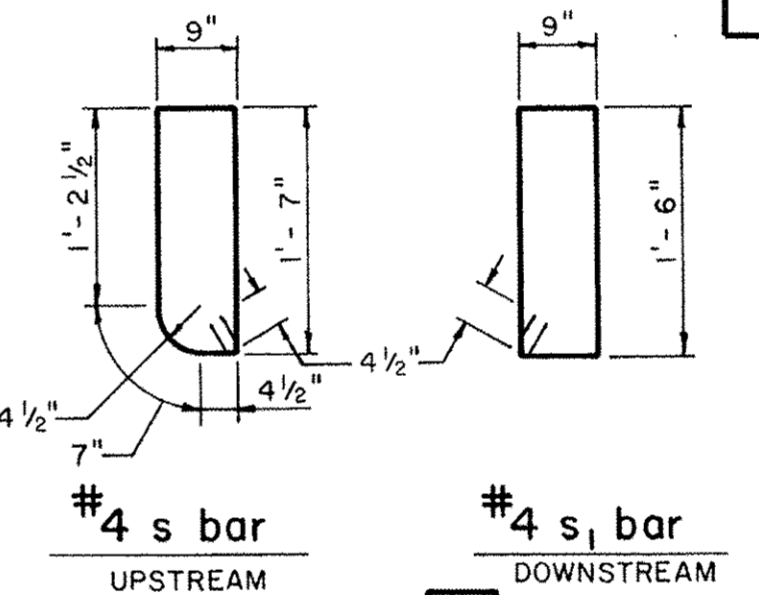


PLAN



BAR a1

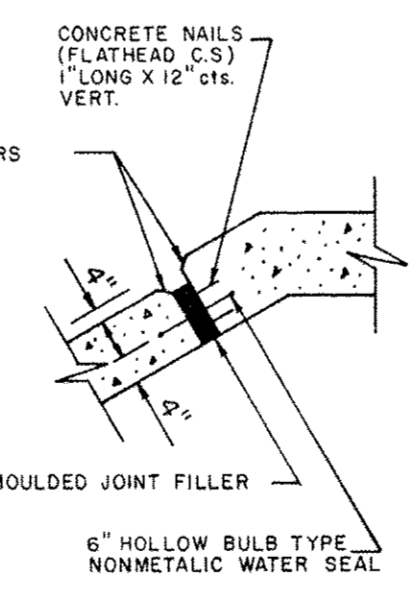
SECTION THRU HEADWALL (UPSTREAM END ONLY)



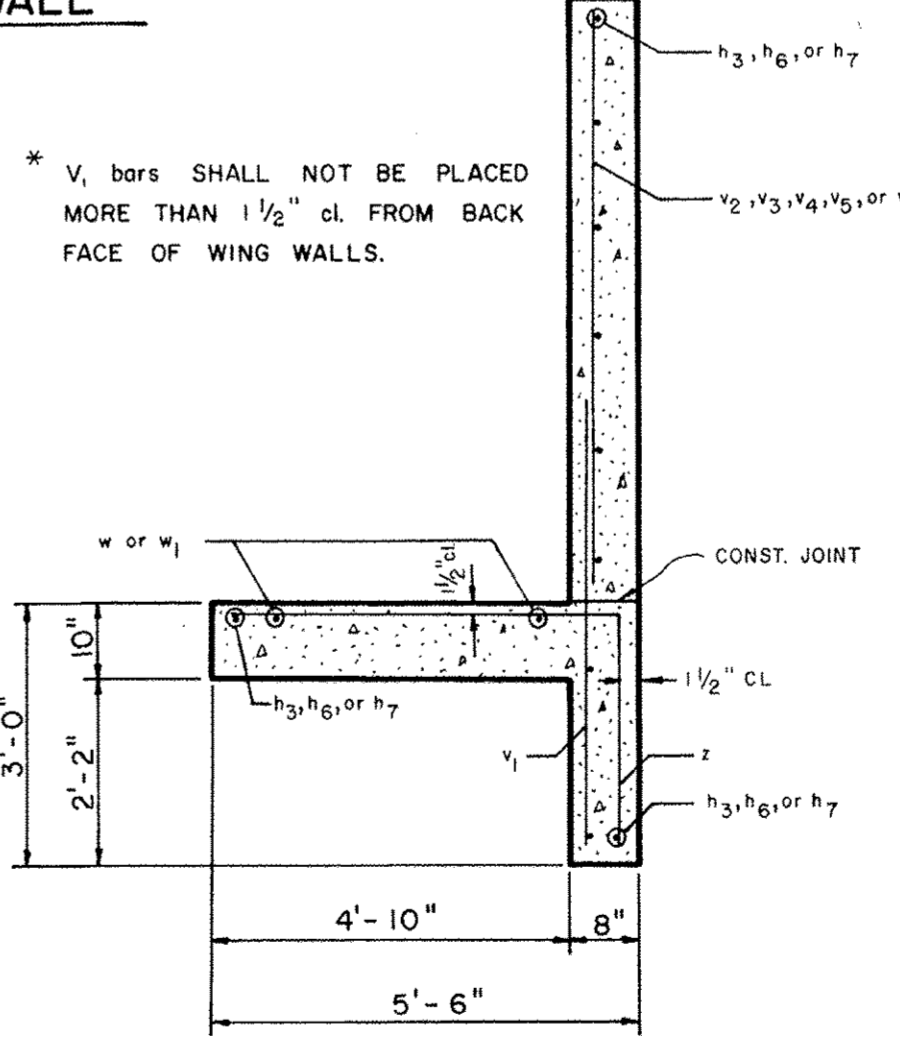
#4 s bar

#4 s1 bar

* V1 bars SHALL NOT BE PLACED
 MORE THAN 1 1/2" CL. FROM BACK
 FACE OF WING WALLS.



CORNER DETAIL



SECTION A-A

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH
a1	178	#8	14'-6"
a2	32	#4	12'-6"
a3	40	#5	12'-6"
d	26	#4	4'-6"
h	26	#7	32'-9"
h1	36	#6	32'-6"
h2	24	#5	32'-3"
h3	26	#4	7'-3"
h4	4	#6	21'-8"
h5	12	#9	22'-3"
h6	14	#4	15'-6"
h7	13	#4	22'-9"
h9	26	#4	32'-0"
S	22	#4	5'-3"
S1	22	#4	5'-3"
V	168	#4	7'-5"
V1	80	#4	6'-0"
V2	24	#4	6'-0"
V3	8	#4	6'-9"
V4	8	#4	5'-6"
V5	8	#4	4'-6"
V6	8	#4	3'-3"
W	14	#5	10'-0"
W1	14	#5	25'-6"
Z	70	#7	7'-11"
CLASS X CONC.	CU. YDS.		96.2
REINFORCEMENT BARS	LBS.		17,287

DESIGN STRESSES
 fy = 60,000 psi
 f'c = 3,500 psi
 MAX SOIL PRESSURE UNDER
 FOOTING = 2778 PSF

LOADING HS20 - 44 & ALT.

FILE = S:\PROJECTS\2016\1018016.LCH.TC\DESIGN STRUCT\2D.Dr\swings\1018016.Culvert_Sct.16+14.76.dgn

REVISION	DATE	BY	REMARKS

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 APPROVED M.R.L.

LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
2017

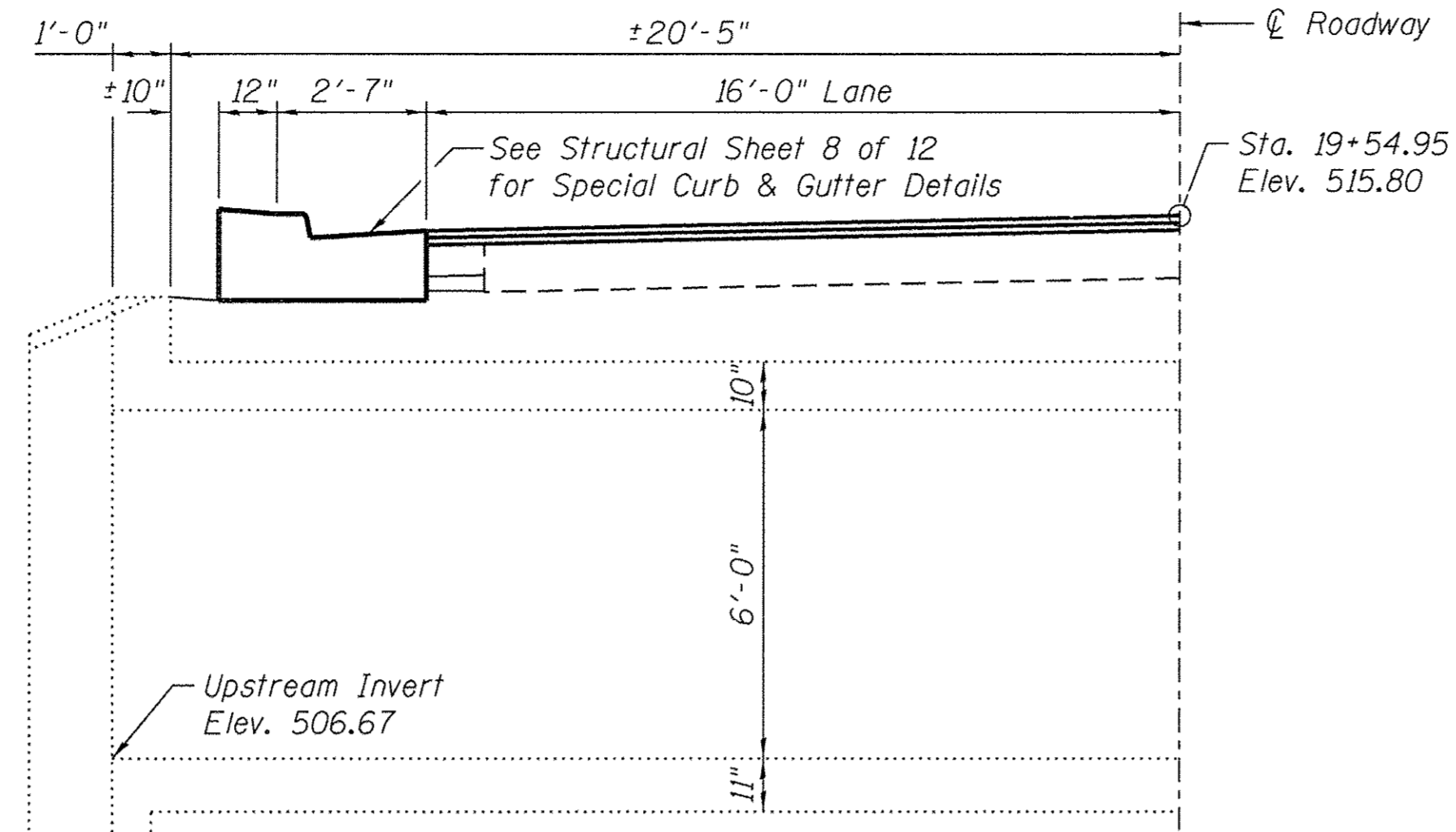
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 809 EAST 2ND STREET, DIXON, IL 61021-0367
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EXISTING PLAN DETAILS
STATION 16+14.76
STRUCTURAL SHEET 6 OF 12

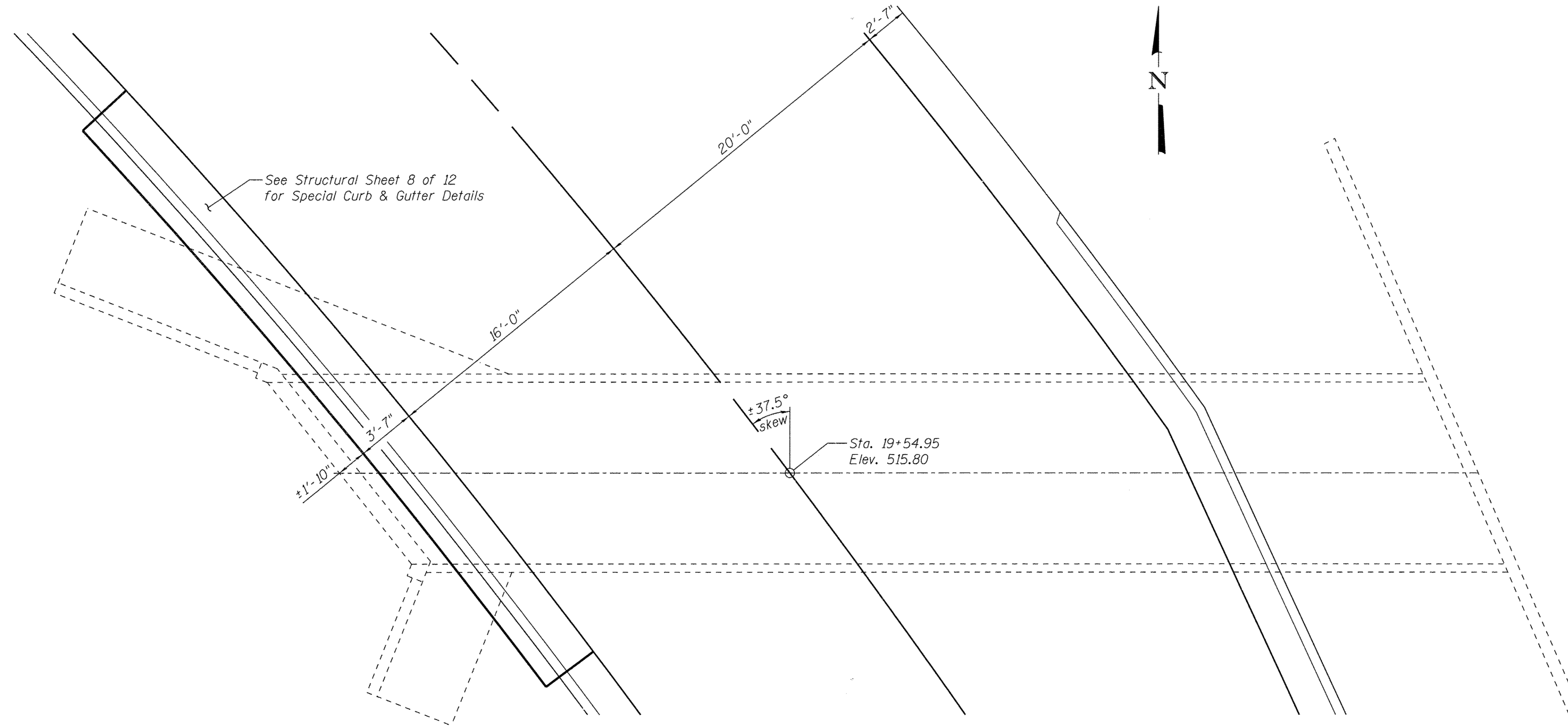
C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	38

WHA# 1018016 CONTRACT NO. 87648
 ILLINOIS FED. AID PROJECT RS-00990621

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LONGITUDINAL HALF ELEVATION VIEW
(Looking North)



CULVERT PLAN VIEW

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REVISION	DATE	BY	REMARKS

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APPROVED	M.R.L.

LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
2017



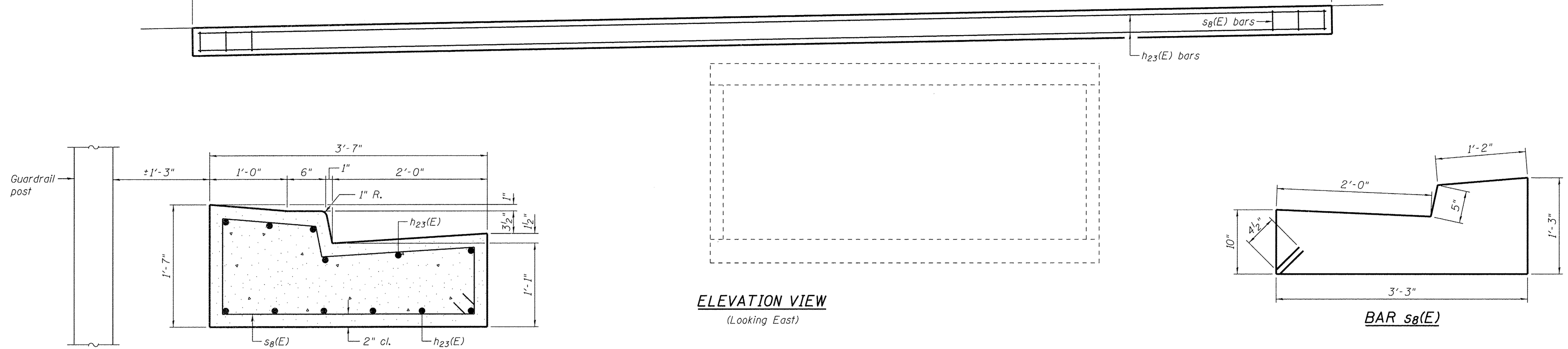
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SPECIAL CURB & GUTTER DETAILS
STATION 19+54.95
STRUCTURAL SHEET 7 OF 12

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	39
WHA# 1018D16		CONTRACT NO. 87648		
ILLINOIS FED. AID PROJECT RS-00990621				

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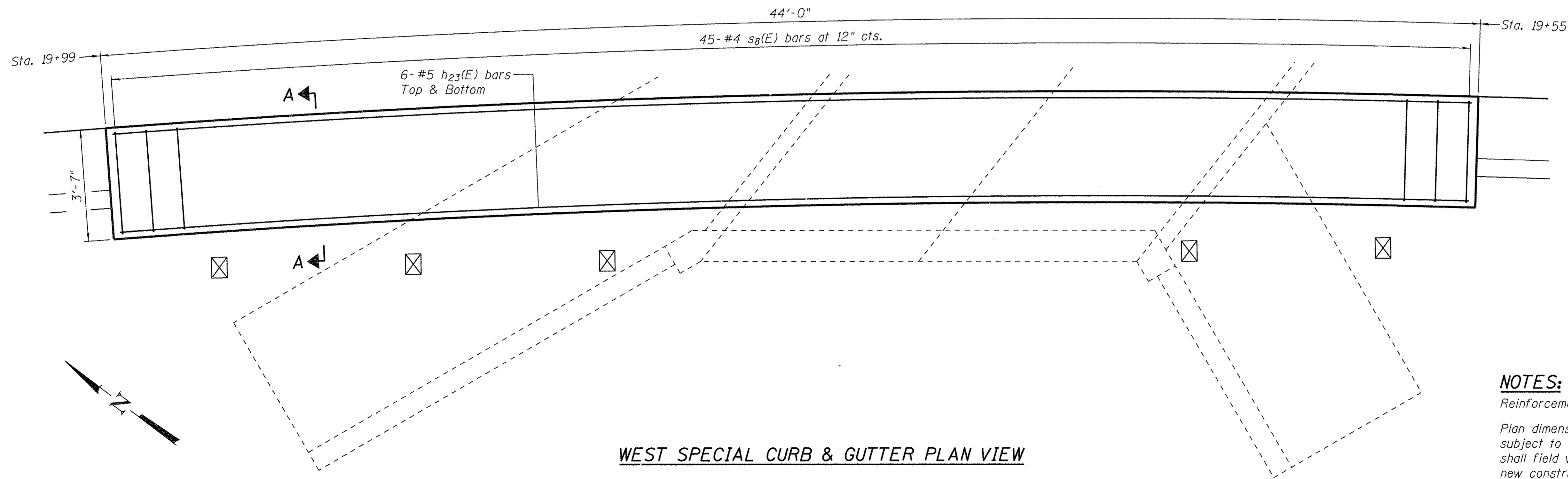
Sta. 19+99 44'-0" Sta. 19+55



ELEVATION VIEW
(Looking East)

SECTION A-A

BAR s8(E)



WEST SPECIAL CURB & GUTTER PLAN VIEW

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₂₃ (E)	12	#5	43'-8"	—
s ₈ (E)	45	#4	9'-8"	L
Concrete Structures			Cu. Yd.	7.6
Reinforcement Bars, Epoxy Coated			Pound	840

NOTES:

Reinforcement bars designated (E) shall be epoxy coated.
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

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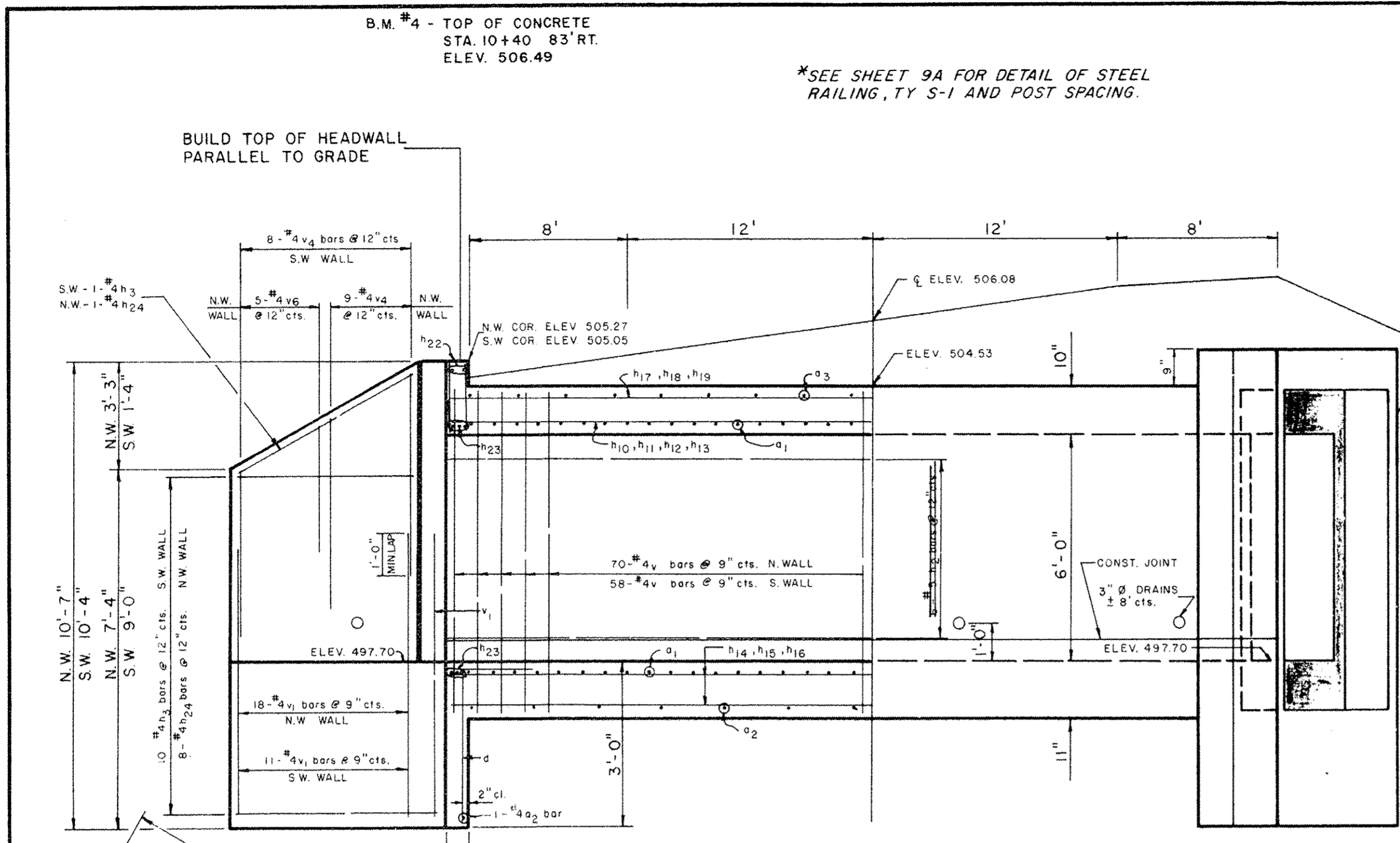
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LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
2017

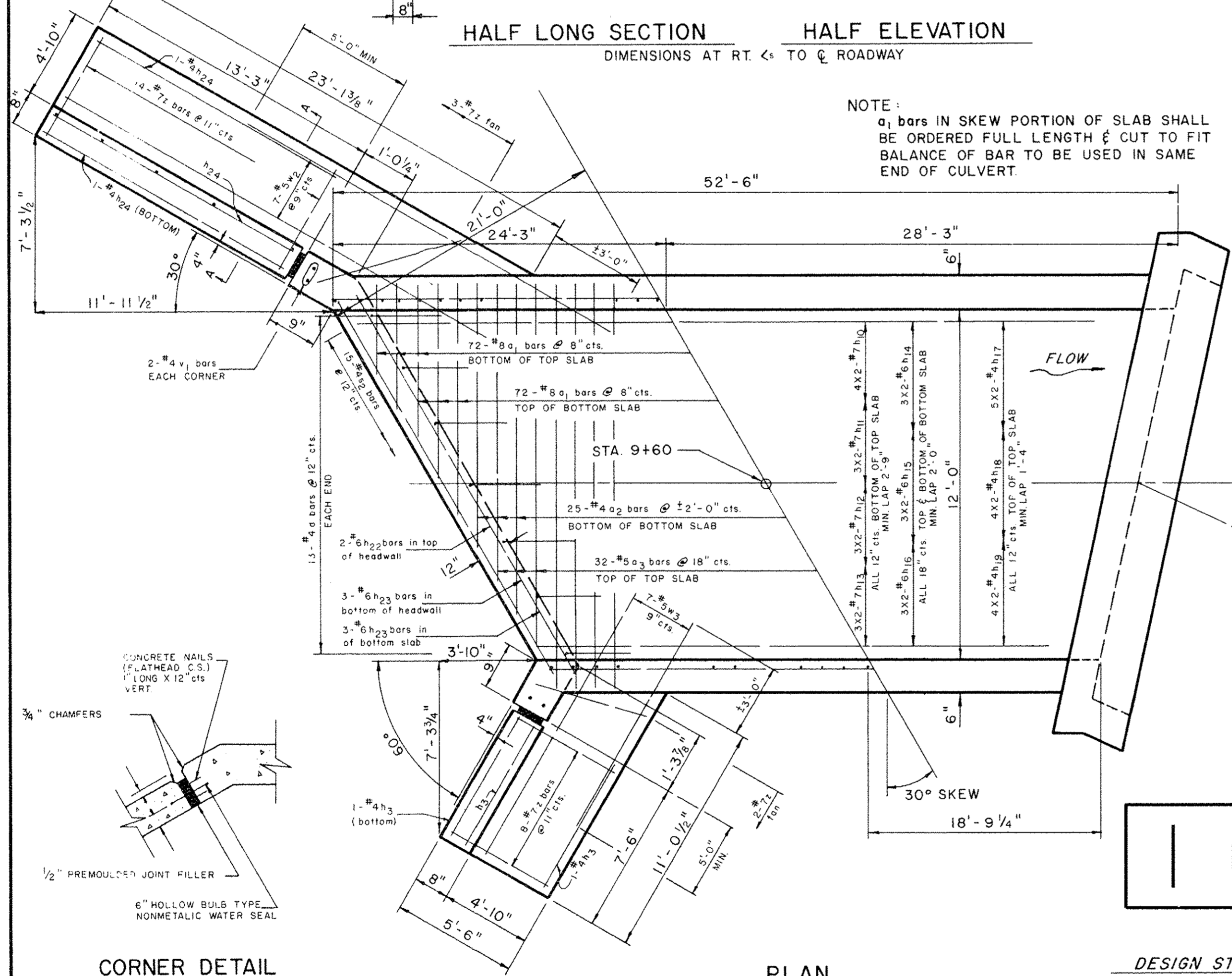
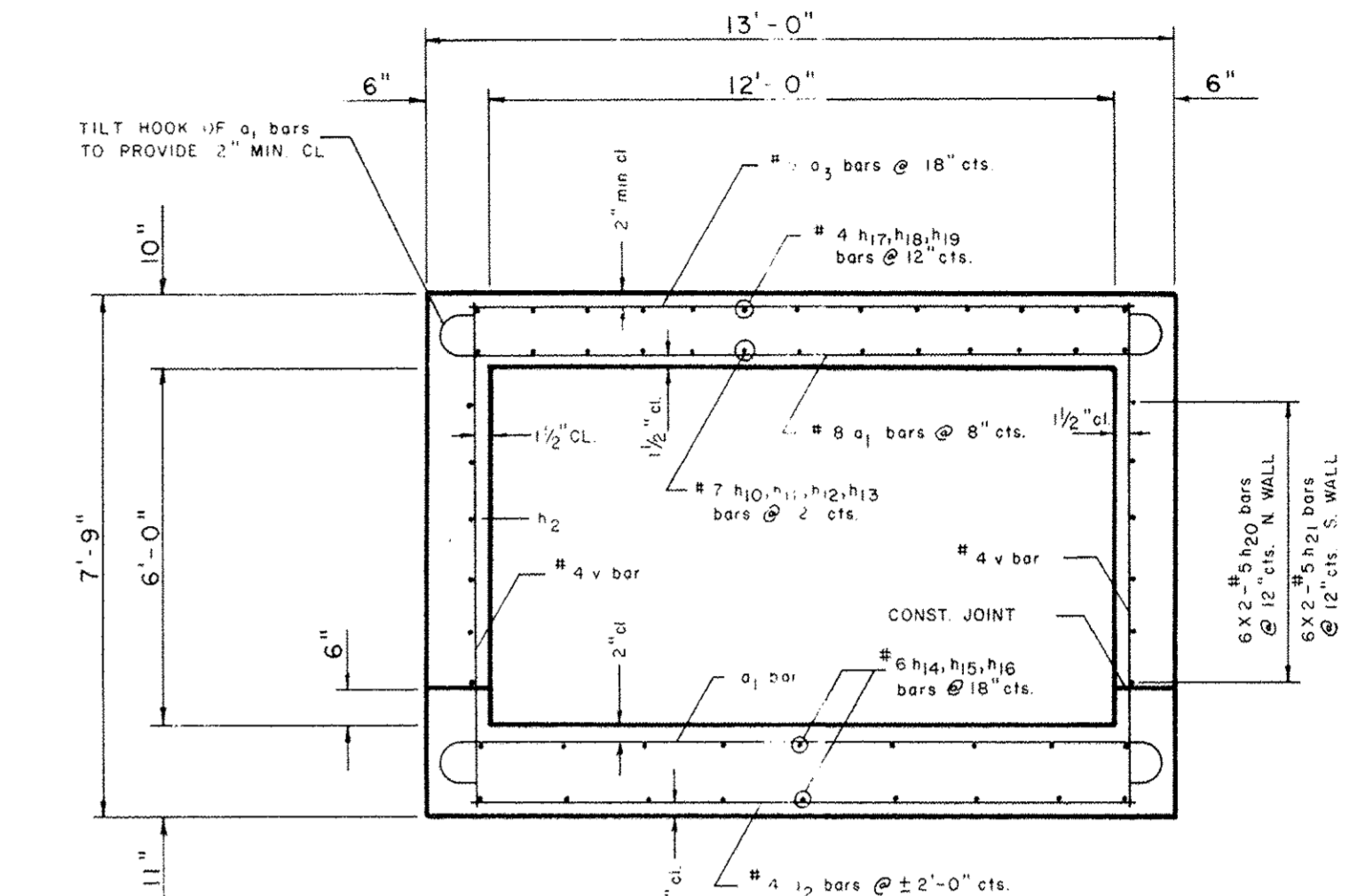
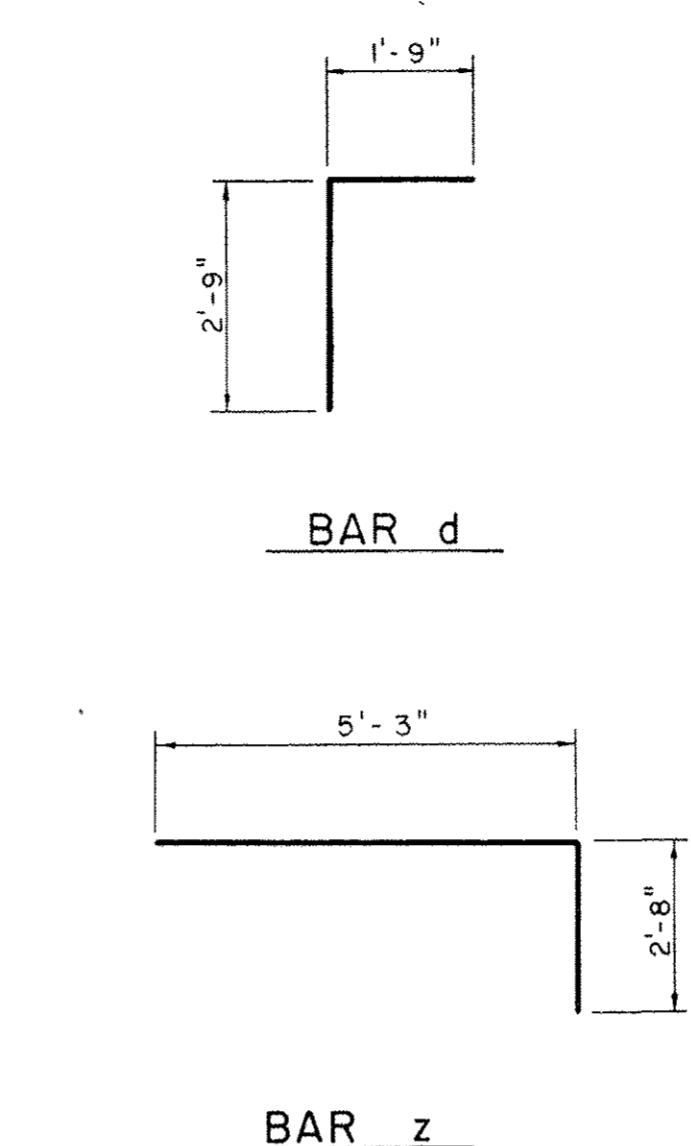
SPECIAL CURB & GUTTER DETAILS
STATION 19+54.95
STRUCTURAL SHEET 8 OF 12

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	40
WHA# 1018016		CONTRACT NO. 87648		
ILLINOIS FED. AID PROJECT RS-00990621				

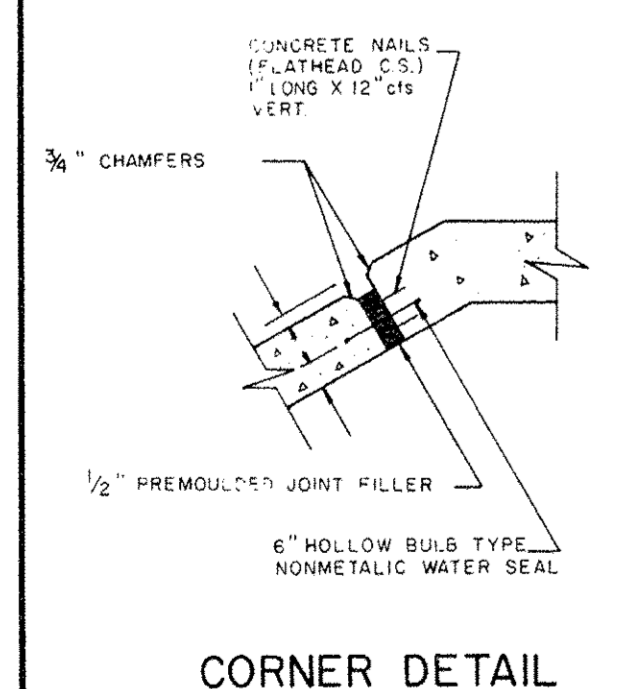
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SEE SHEET 9 FOR COLLAR DETAIL



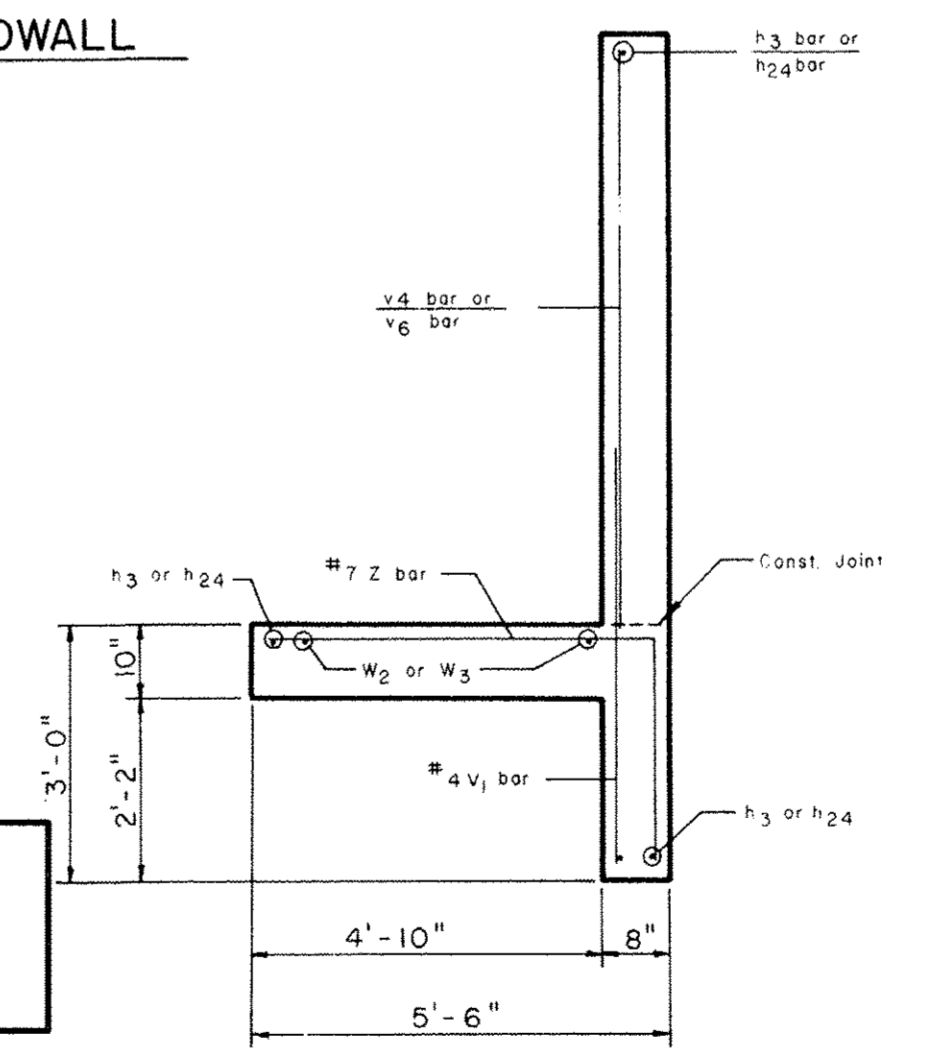
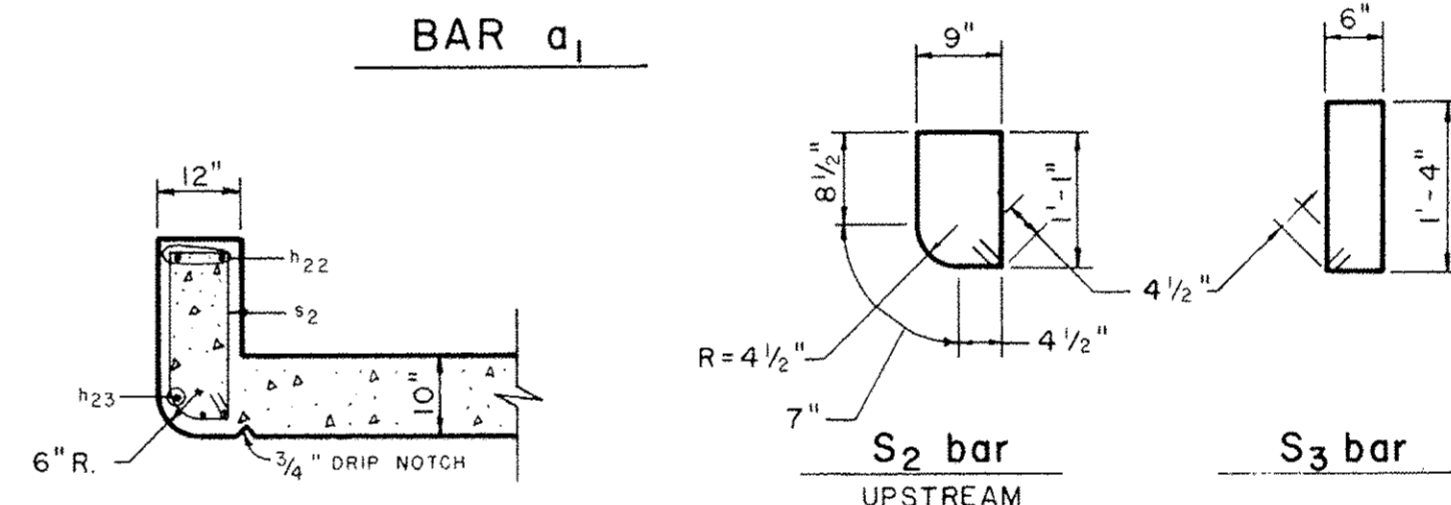
NOTE:
 #6 bars in SKEW PORTION OF SLAB SHALL BE ORDERED FULL LENGTH & CUT TO FIT BALANCE OF BAR TO BE USED IN SAME END OF CULVERT



FOR INFORMATION ONLY

DESIGN STRESSES
 $f_y = 60,000$ psi
 $f'_c = 3,500$ psi
 MAX. SOIL PRESSURE UNDER FOOTINGS = 2,778 psf

LOADING HS 20-44 & ALT.



BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH
a ₁	144	#8	14'-6"
a ₂	26	#4	12'-6"
a ₃	32	#5	12'-6"
d	26	#4	4'-6"
h ₃	13	#4	7'-3"
h ₁₀	8	#7	28'-0"
h ₁₁	6	#7	26'-6"
h ₁₂	6	#7	25'-3"
h ₁₃	6	#7	24'-0"
h ₁₄	12	#6	27'-6"
h ₁₅	12	#6	25'-9"
h ₁₆	12	#6	24'-0"
h ₁₇	10	#4	27'-3"
h ₁₈	8	#4	25'-3"
h ₁₉	8	#4	23'-9"
h ₂₀	12	#5	27'-6"
h ₂₁	12	#5	22'-9"
h ₂₂	2	#6	14'-6"
h ₂₃	16	#6	15'-0"
h ₂₄	15	#4	13'-0"
s ₂	15	#4	3'-6"
s ₃	35	#4	4'-5"
v	128	#4	7'-5"
v ₁	45	#4	6'-0"
v ₄	29	#4	5'-6"
v ₆	5	#4	3'-3"
w ₂	7	#5	18'-0"
w ₃	7	#5	11'-6"
z	27	#7	7'-11"
CLASS X CONCRETE		CU. YDS	65.2
REINFORCEMENT BARS		LBS.	12,442

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REVISION	DATE	BY	REMARKS

DRAWN: D.A.N.
 CHECKED: M.C.W.
 APPROVED: M.R.L.

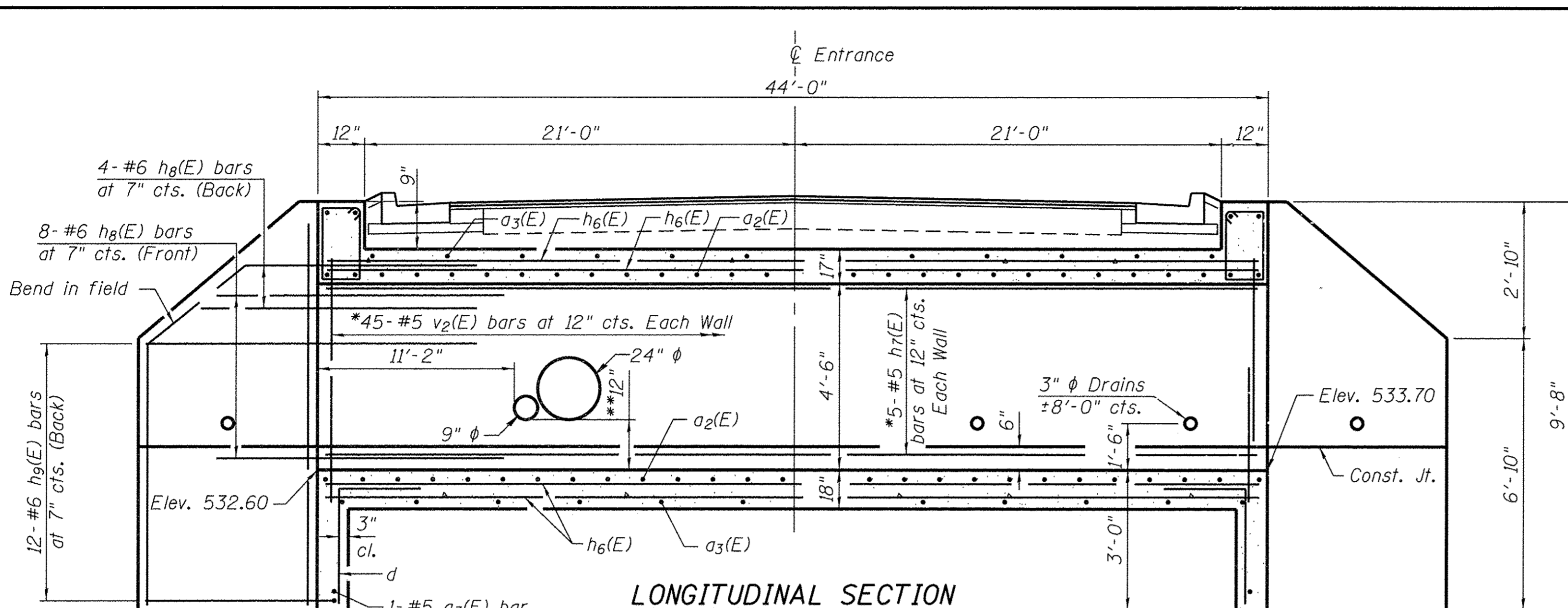
LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
2017



EXISTING PLAN DETAILS
STATION 19+54.95
STRUCTURAL SHEET 9 OF 12

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	41
WHA# 1018016		CONTRACT NO. 87648		
ILLINOIS FED. AID PROJECT RS-0099062				

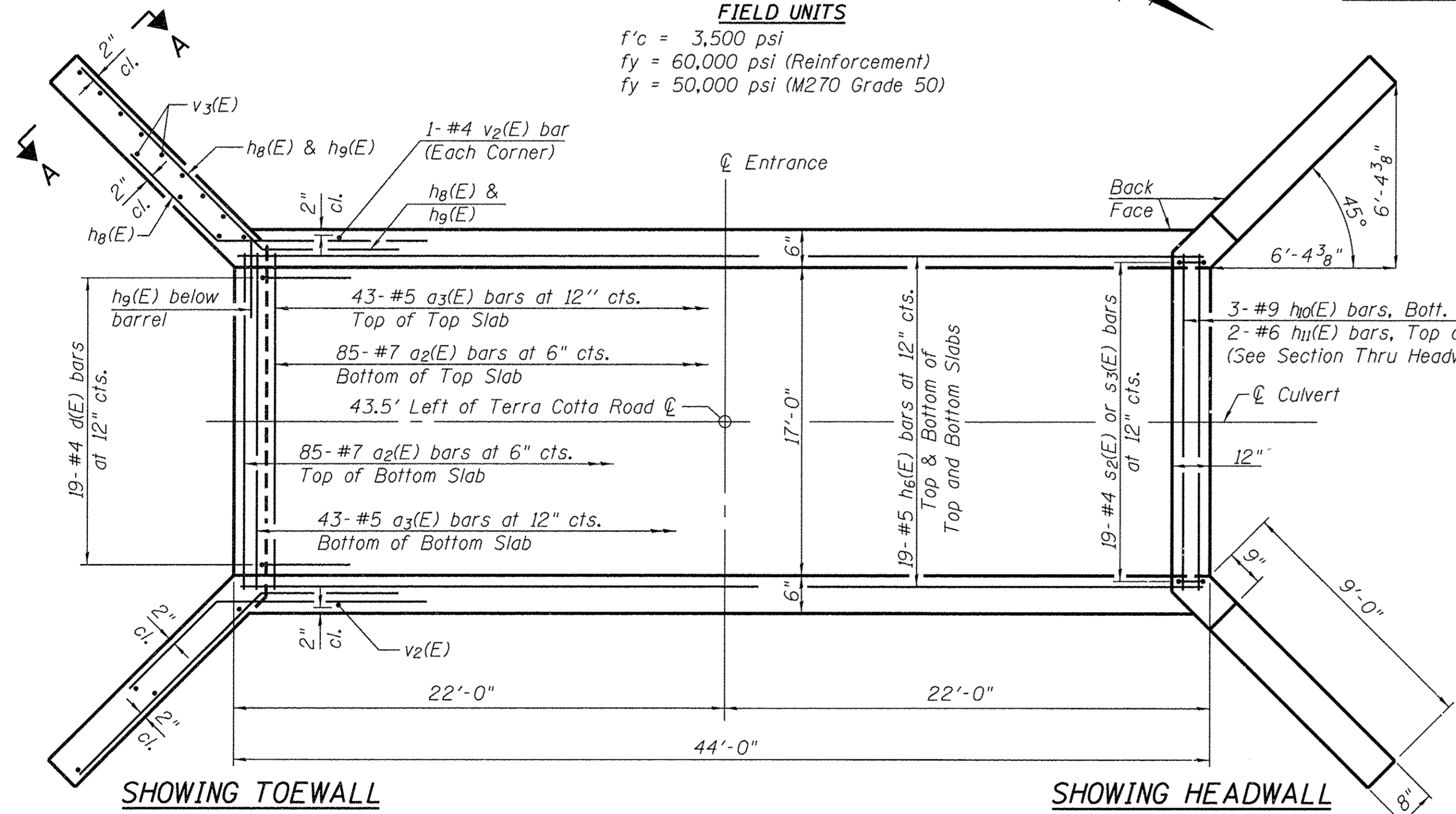
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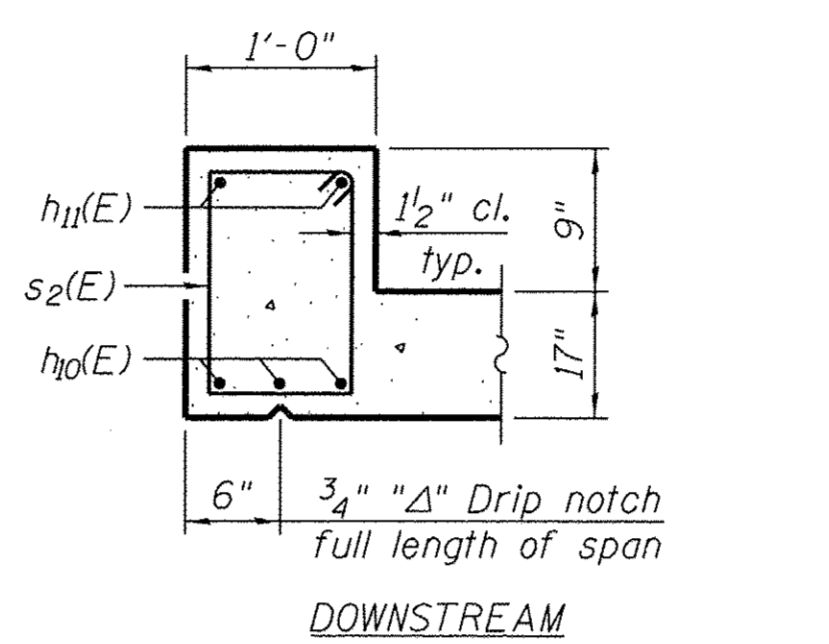
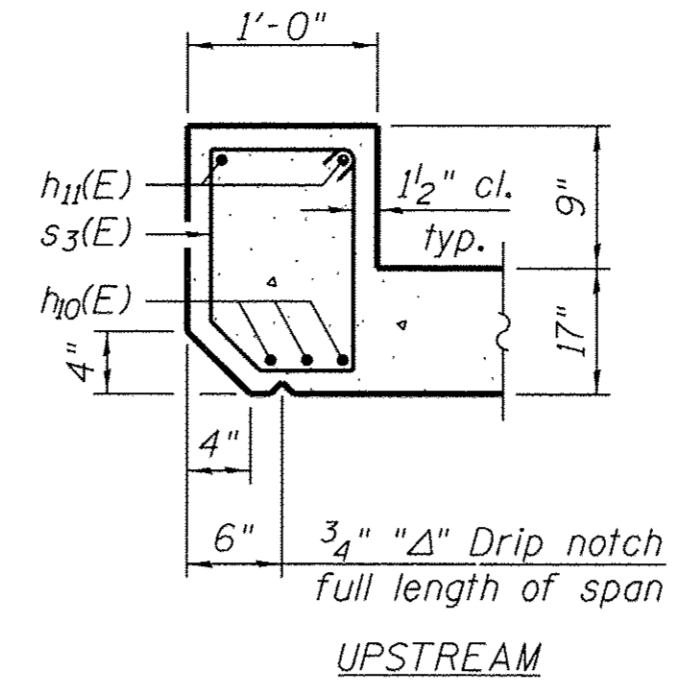
LONGITUDINAL SECTION
 *h7(E) and v2(E) bars shall be cut to fit in field around wall penetrations. Ends shall be painted with epoxy point.
 **Assumed dimensions. Field verify.

DESIGN STRESSES
 FIELD UNITS

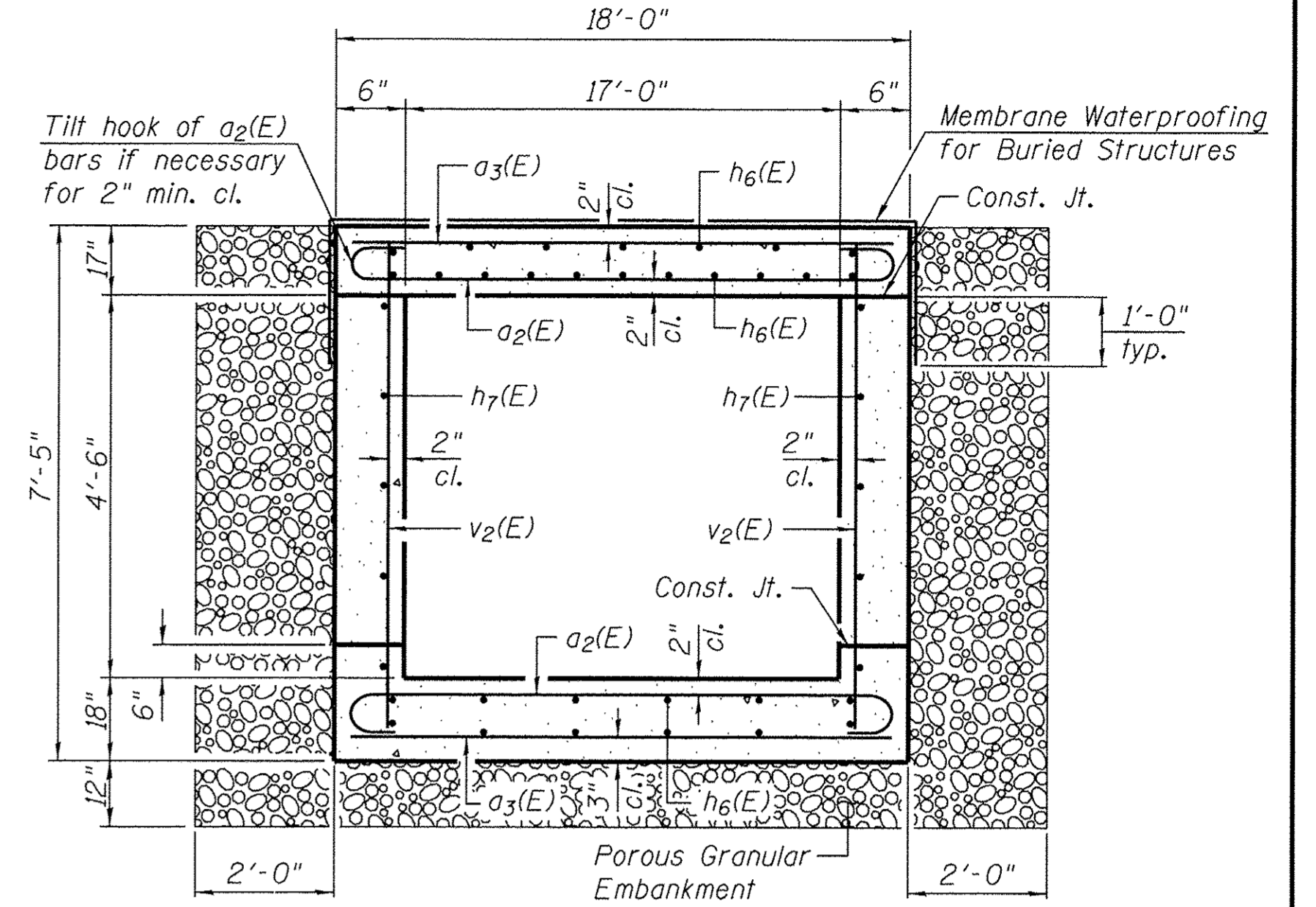
$f'c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50)



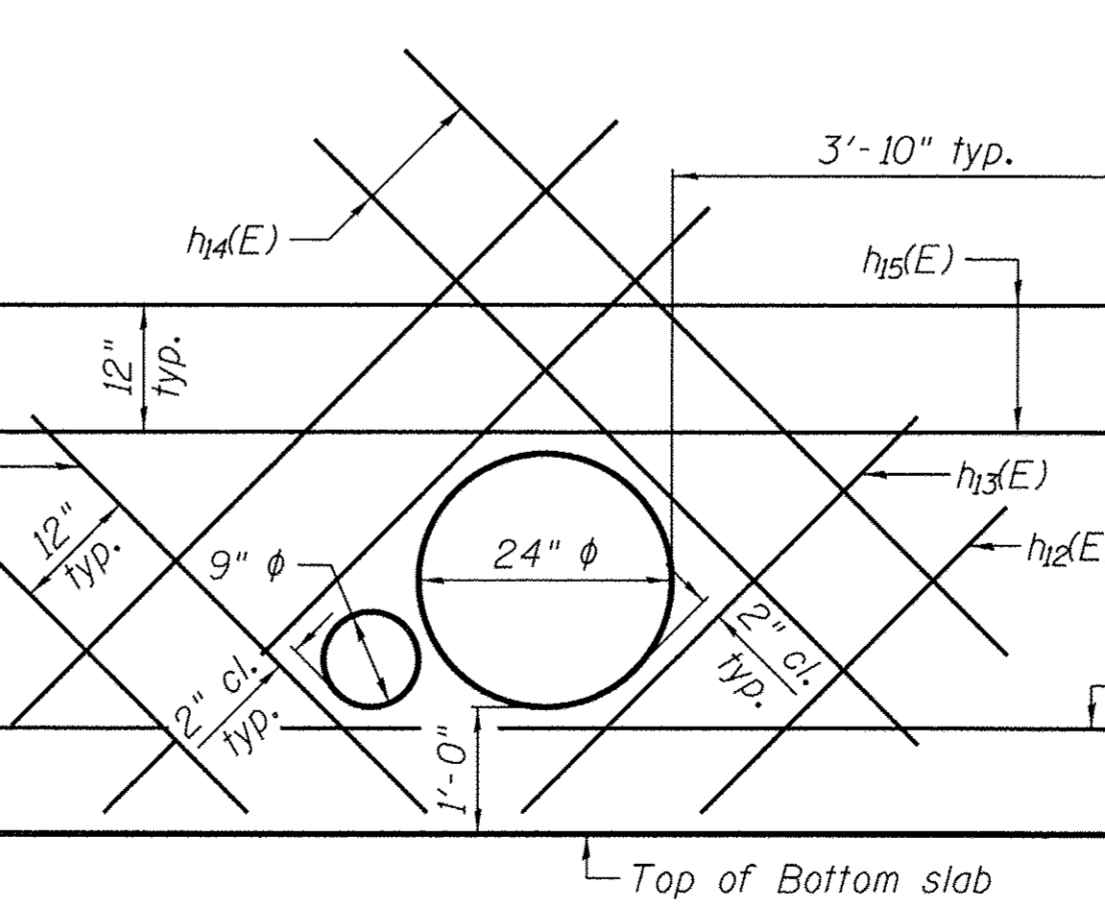
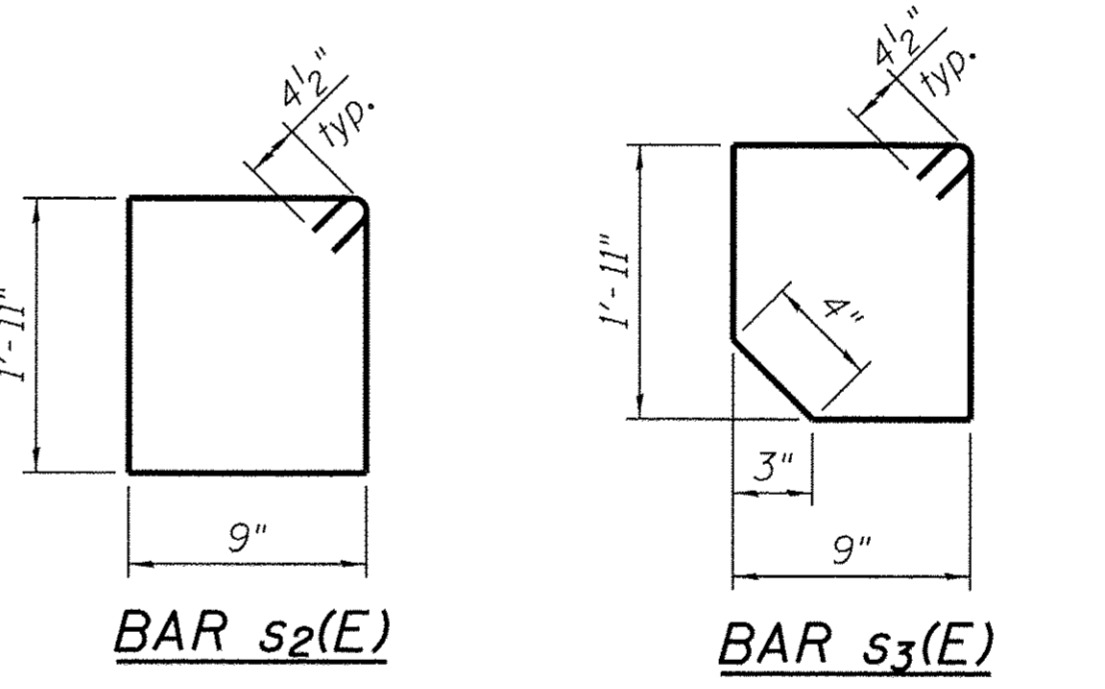
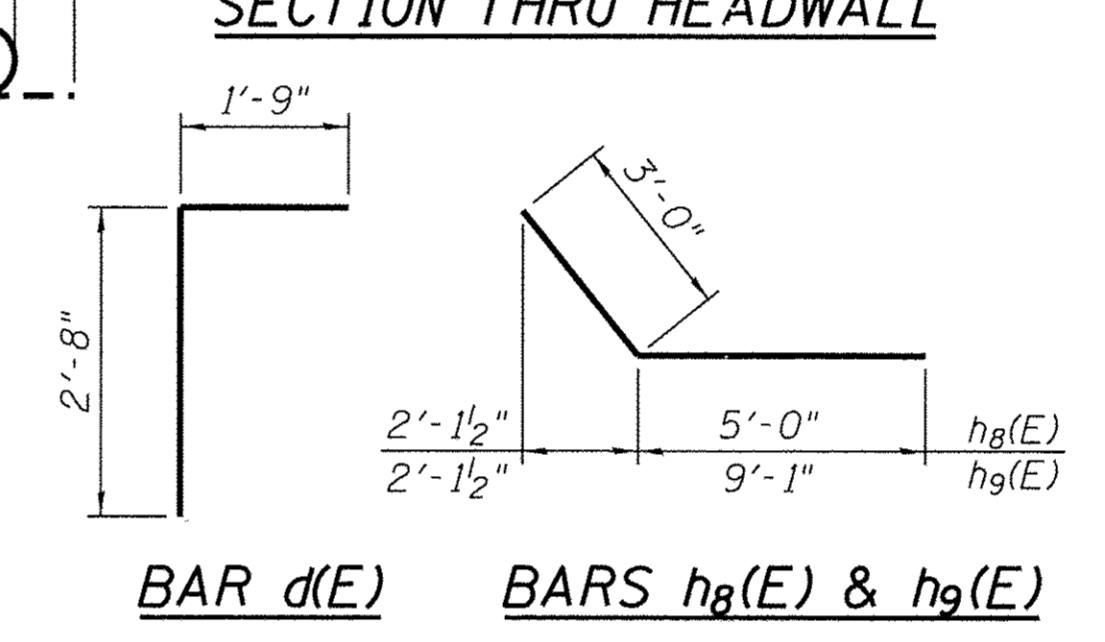
PLAN



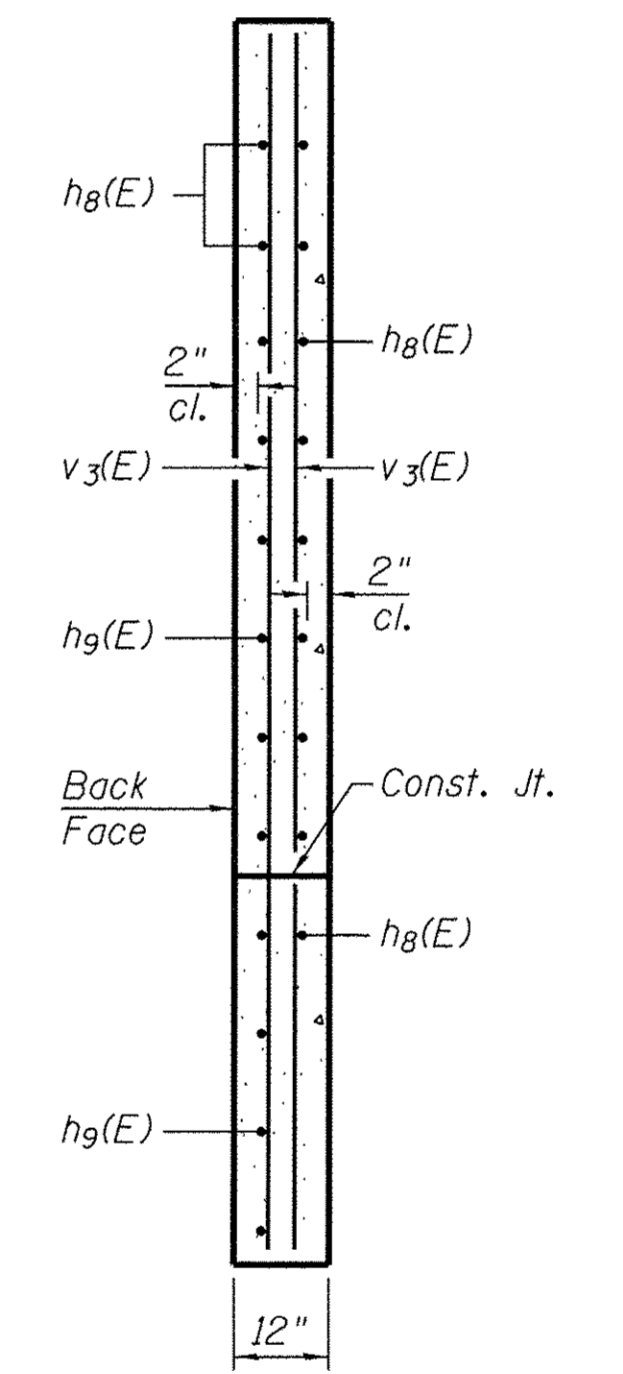
SECTION THRU HEADWALL



SECTION THRU BARREL



WEST WALL PENETRATION DETAIL



SECTION A-A

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a2(E)	170	#7	19'-4"	
a3(E)	88	#5	17'-8"	
d(E)	38	#4	4'-5"	
h6(E)	76	#5	43'-8"	
h7(E)	10	#5	43'-8"	
h8(E)	48	#6	8'-0"	
h9(E)	48	#6	12'-1"	
h10(E)	6	#9	17'-4"	
h11(E)	4	#6	17'-4"	
h12(E)	2	#5	3'-5"	
h13(E)	2	#5	4'-5"	
h14(E)	4	#5	6'-9"	
h15(E)	3	#5	10'-5"	
s2(E)	19	#4	6'-1"	
s3(E)	19	#4	5'-11"	
v2(E)	94	#5	7'-1"	
v3(E)	48	#4	9'-4"	
Concrete Box Culverts		Cu. Yd.	102.5	
Reinforcement Bars, Epoxy Coated		Pound	15,500	
Porous Granular Embankment		Cu. Yd.	85	
Membrane Waterproofing for Buried Structures		Sq. Yd.	110	

NOTES
 NO PRECAST OPTION ALLOWED.

A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
 All exposed edges shall be chamfered 3/4" unless otherwise noted.

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 Interims

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.



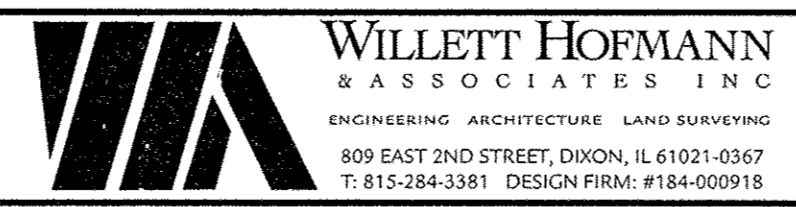
DATE: 2/22/17
 EXPIRES 11/30/18

"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 Standard Specifications for Highway Bridges."

REVISION	DATE	BY	REMARKS

DRAWN: F.D.L.
 CHECKED: M.C.W.
 APPROVED: M.R.L.

LASALLE COUNTY
 TERRA COTTA RD. (C.H. 42)
 2017

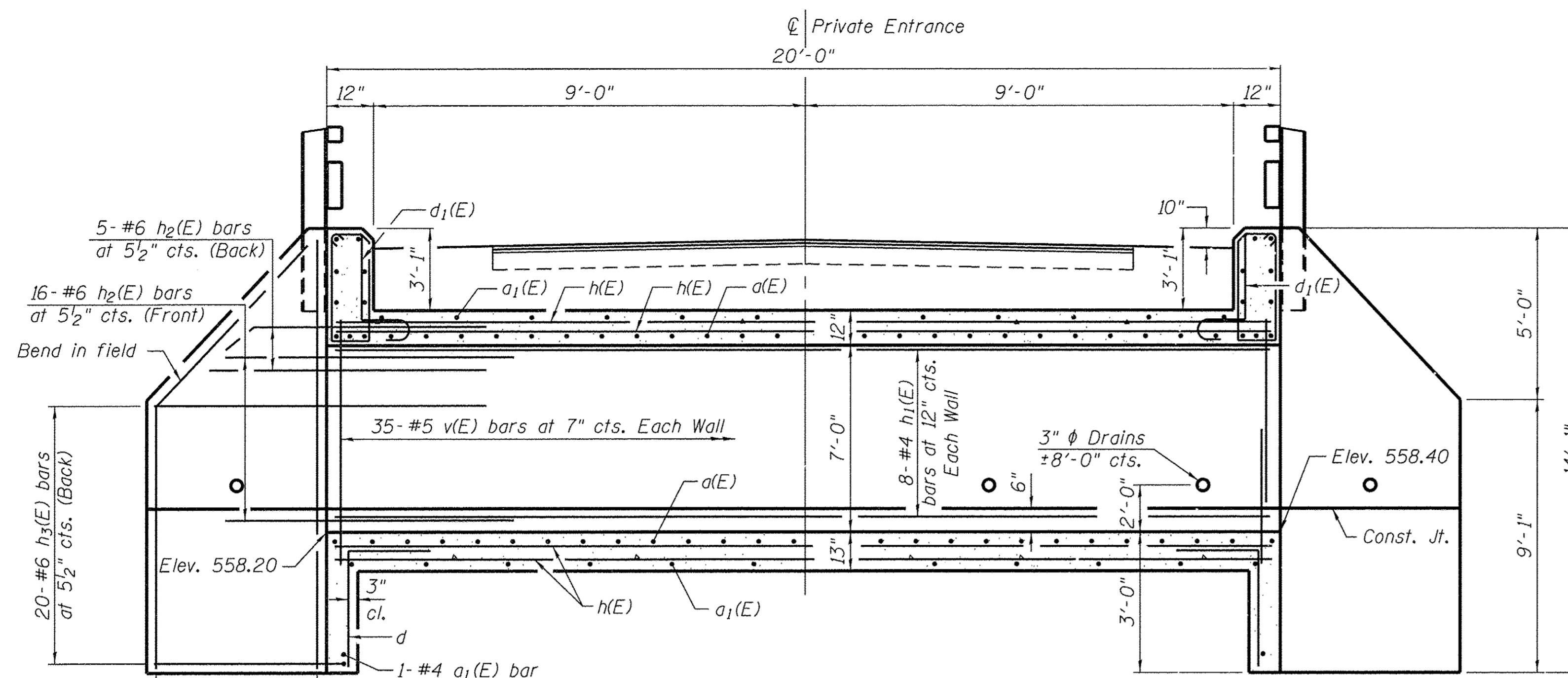


CULVERT DETAILS
 STATION 38+15.00
 STRUCTURAL SHEET 10 OF 12

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	42
WHA# 1018D16			CONTRACT NO. 87648	
ILLINOIS FED. AID PROJECT RS-0090621				

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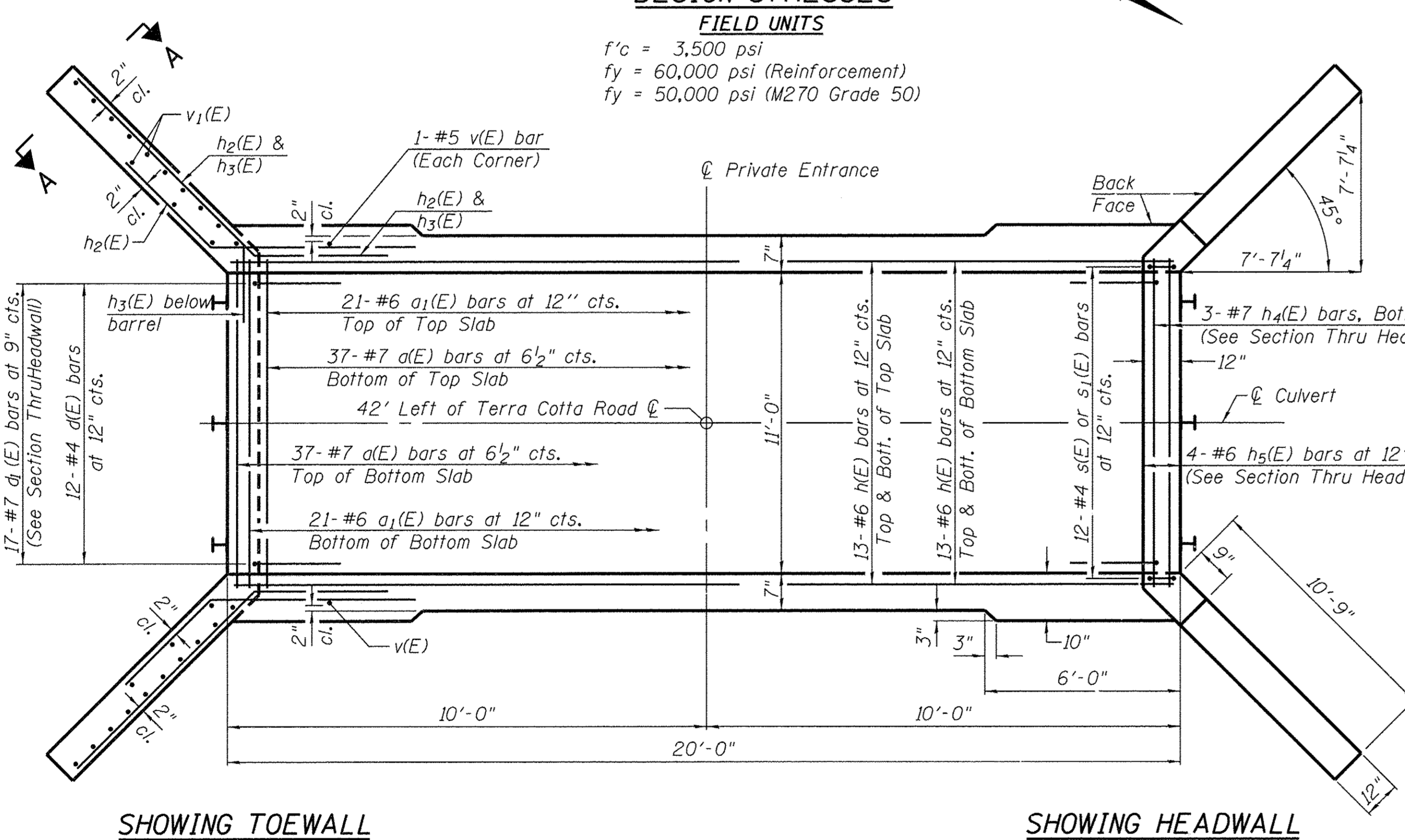
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LONGITUDINAL SECTION

DESIGN STRESSES
FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50)



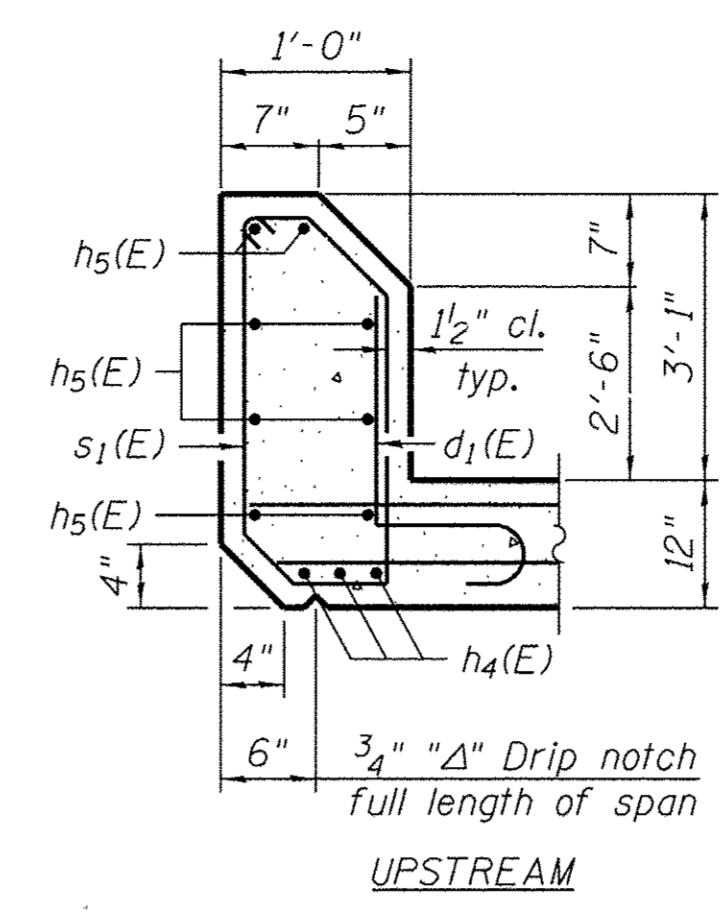
SHOWING TOEWALL

PLAN

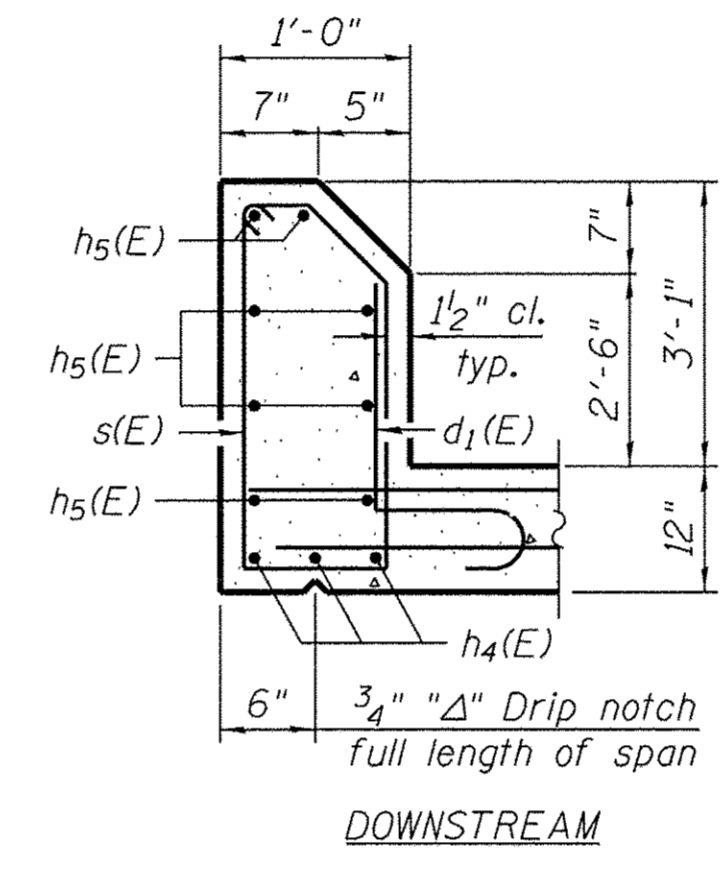
SHOWING HEADWALL

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

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

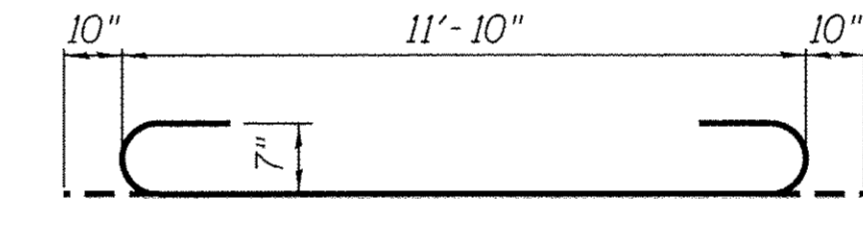


UPSTREAM

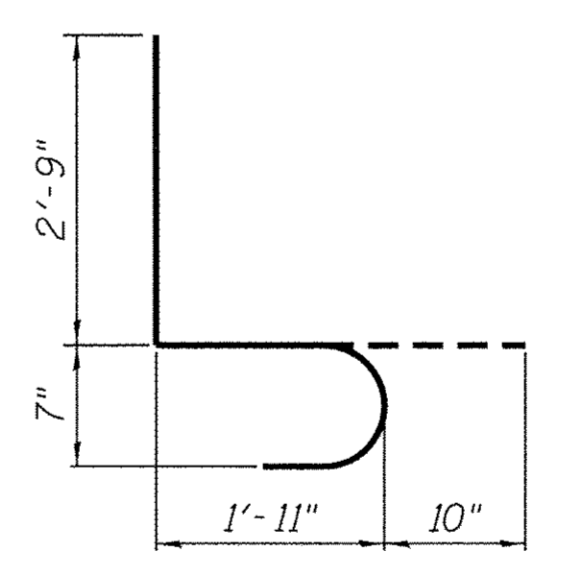


DOWNSTREAM

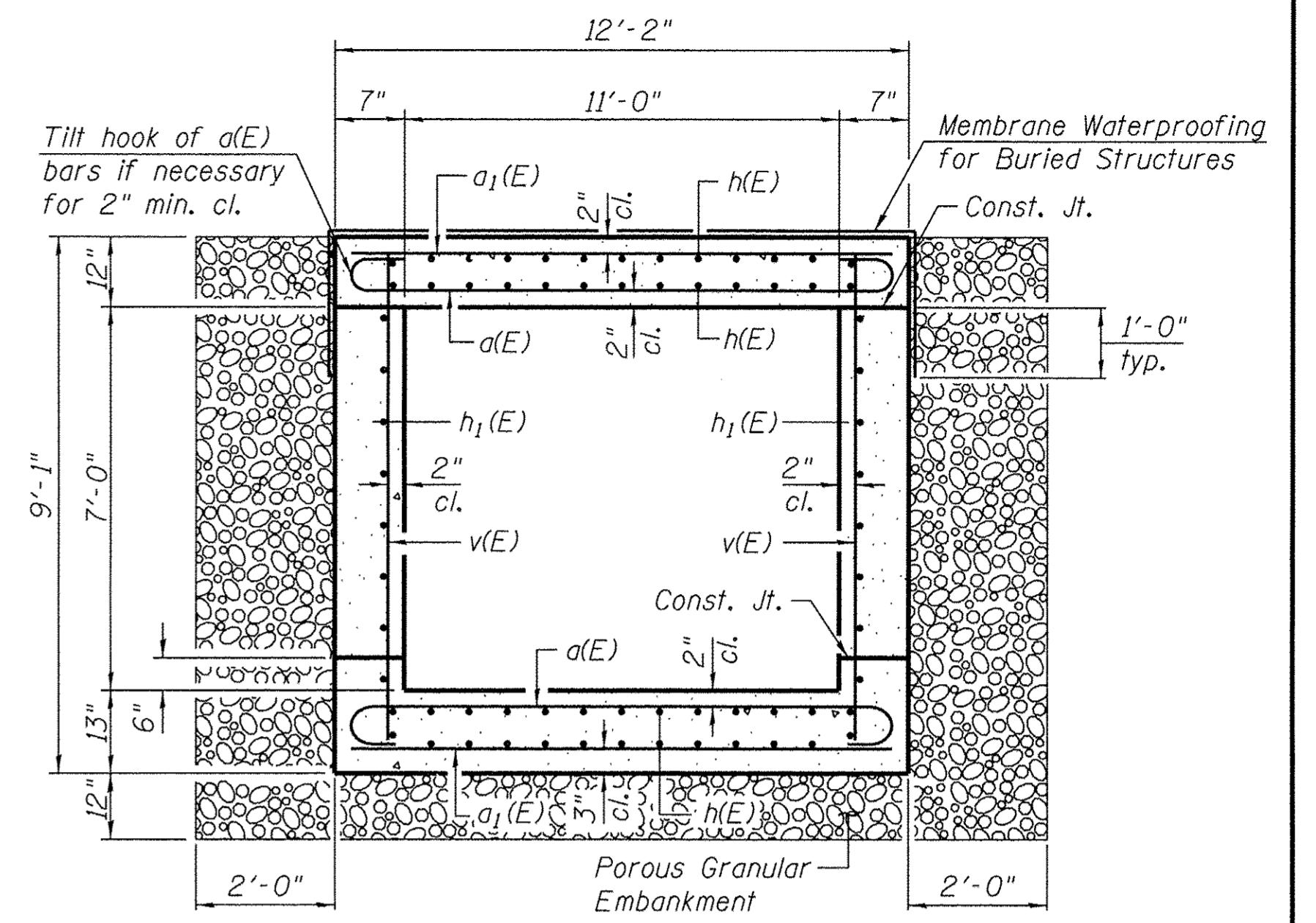
SECTION THRU HEADWALL



BAR d1(E)



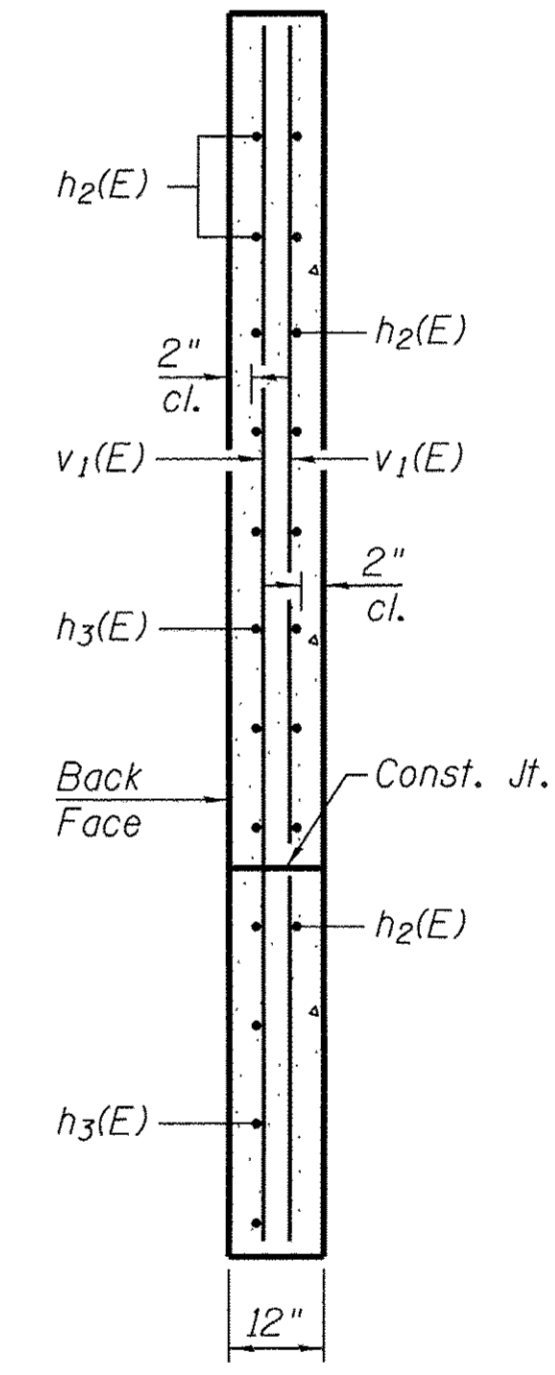
BAR d1(E)



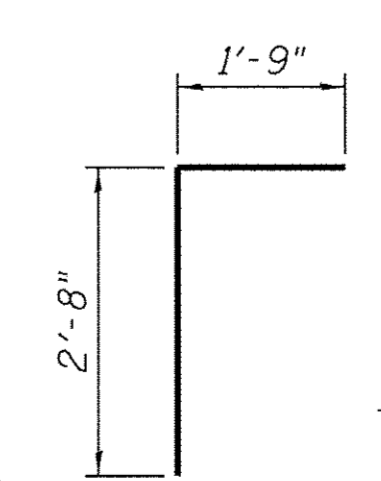
SECTION THRU BARREL

BILL OF MATERIAL

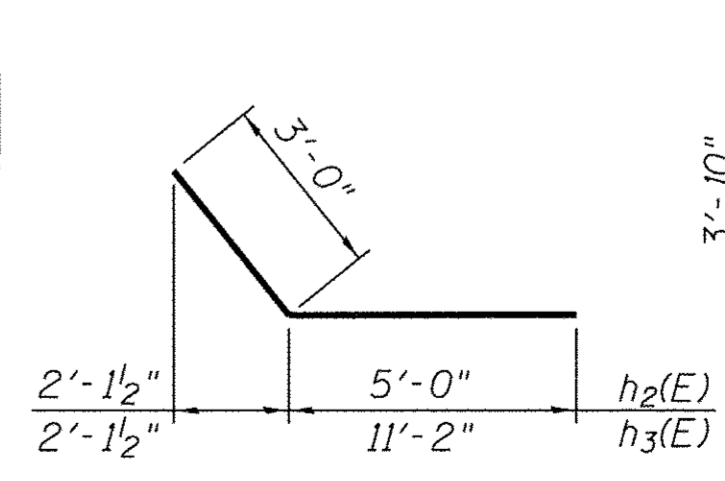
Bar	No.	Size	Length	Shape
a(E)	74	#7	13'-6"	U
a1(E)	44	#6	11'-10"	U
d(E)	24	#4	4'-5"	U
d1(E)	34	#7	5'-6"	U
h(E)	52	#6	19'-8"	U
h1(E)	16	#4	19'-8"	U
h2(E)	84	#6	8'-0"	U
h3(E)	80	#6	14'-2"	U
h4(E)	6	#7	11'-10"	U
h5(E)	16	#6	11'-10"	U
s(E)	12	#4	9'-8"	U
s1(E)	12	#4	9'-6"	U
v(E)	74	#5	8'-9"	U
v1(E)	52	#4	13'-9"	U
Concrete Box Culverts				Cu. Yd. 48.8
Reinforcement Bars, Epoxy Coated				Pound 9,470
Porous Granular Embankment				Cu. Yd. 40
Membrane Waterproofing for Buried Structures				Sq. Yd. 40



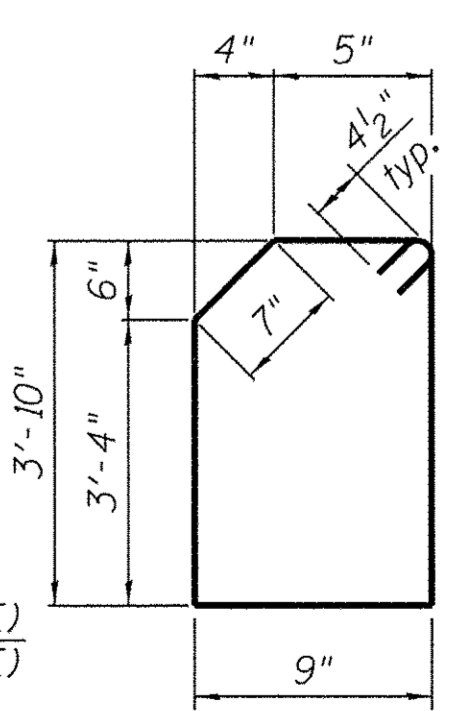
SECTION A-A



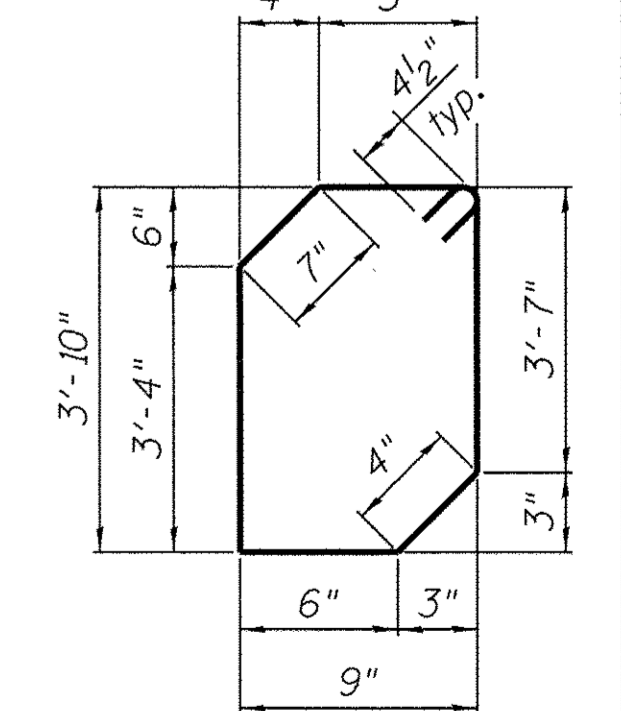
BAR d(E)



BARS h2(E) & h3(E)



BAR s(E)



BAR s1(E)

NOTES

NO PRECAST OPTION ALLOWED.
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
All exposed edges shall be chamfered 3/4" unless otherwise noted.



DATE: 2/22/17
EXPIRES 11/30/18

"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 Standard Specifications for Highway Bridges."

REVISION	DATE	BY	REMARKS

DRAWN F.D.L.
CHECKED M.C.W.
APPROVED M.R.L.

LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
2017

WILLETT HOFMANN & ASSOCIATES INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T. 815-284-3381 DESIGN FIRM: #184-000918

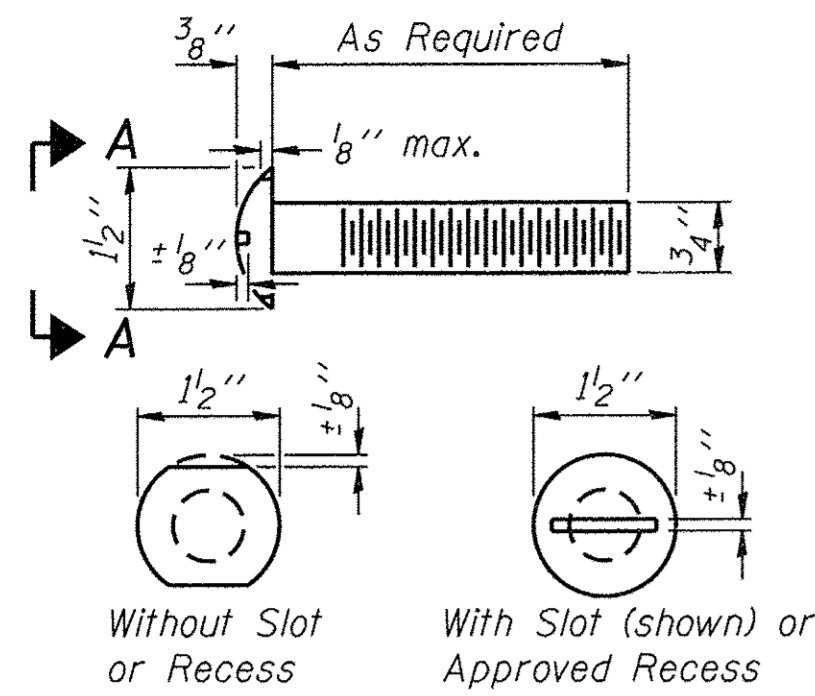
CULVERT DETAILS
STATION 52+19.00
STRUCTURAL SHEET 11 OF 12

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	43

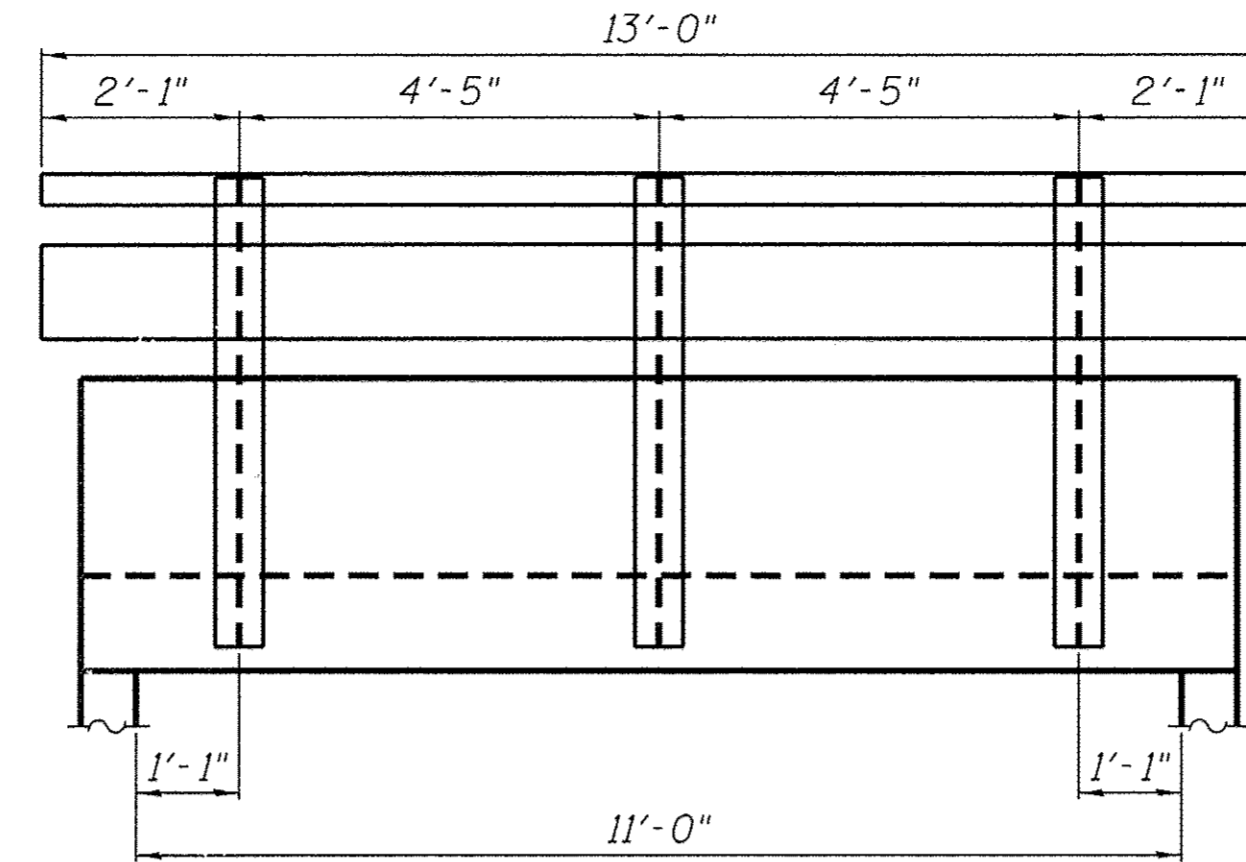
WHA# 1018D16 CONTRACT NO. 87648
ILLINOIS FED. AID PROJECT RS-00990621

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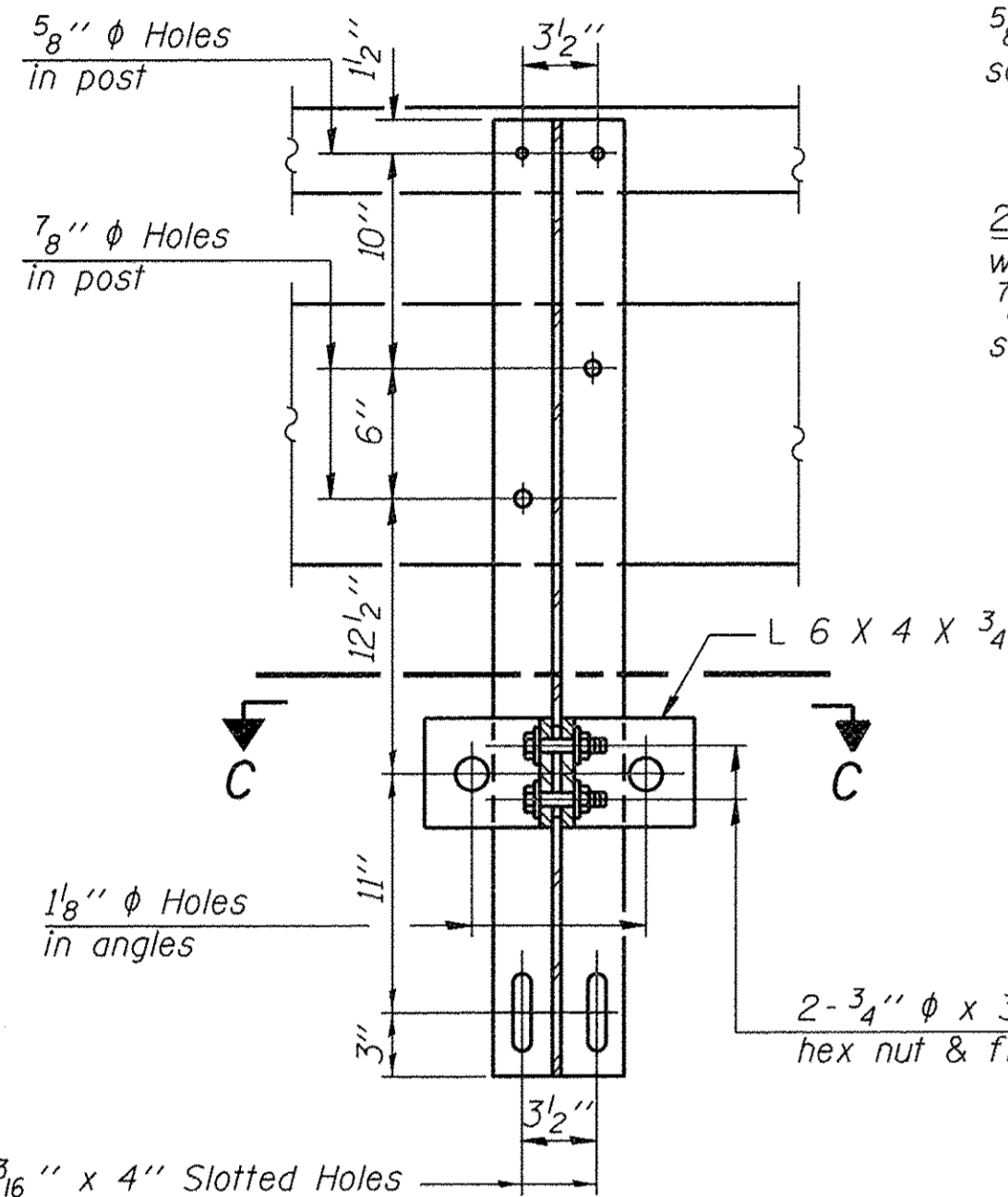


**VIEW A-A
ROUND HEAD BOLT**

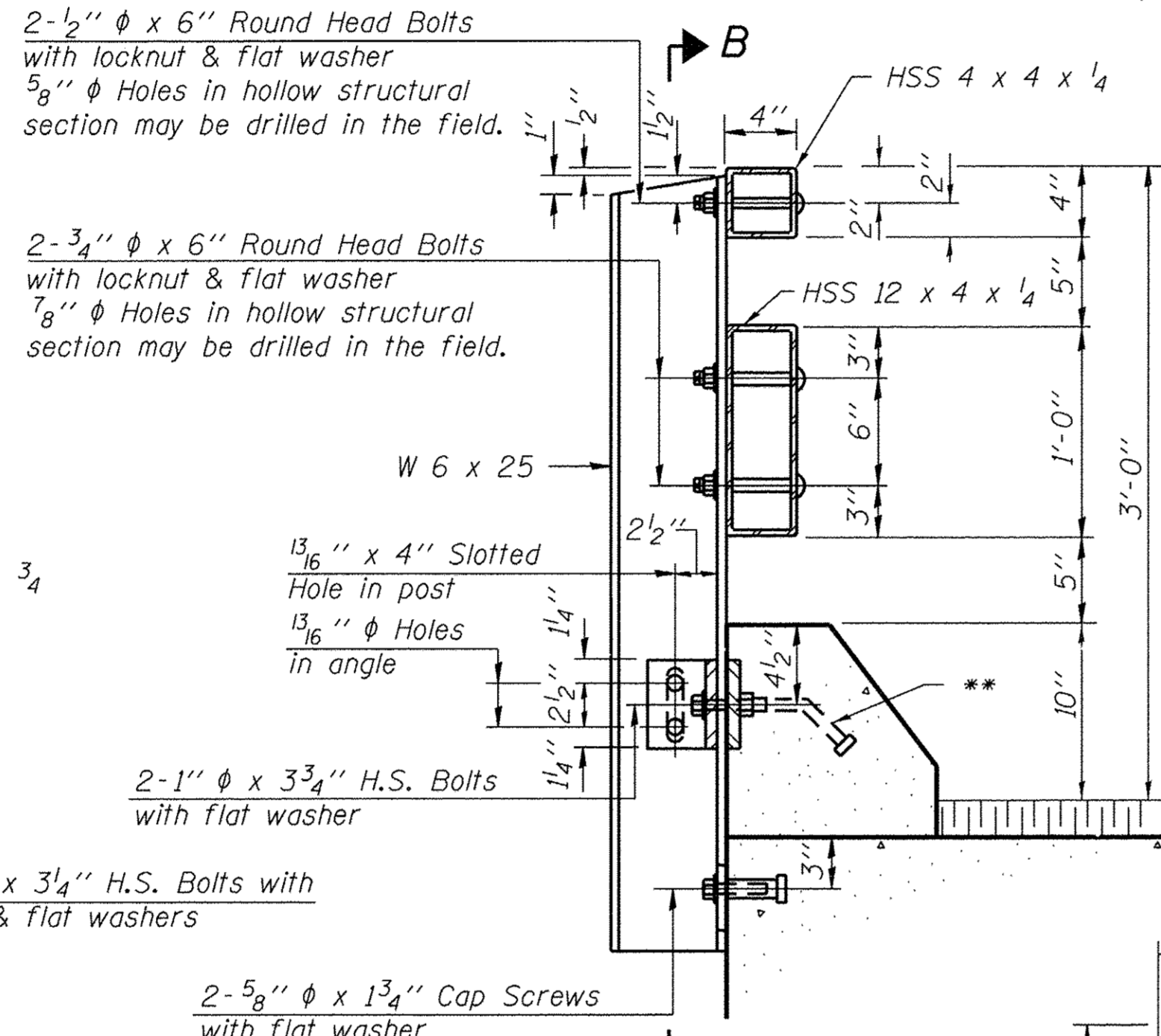


ELEVATION VIEW

Notes:
 For multi-span bridges, sufficient 1/4" x 6" x 1'-5" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type T-1.
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
 ** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.



SECTION B-B



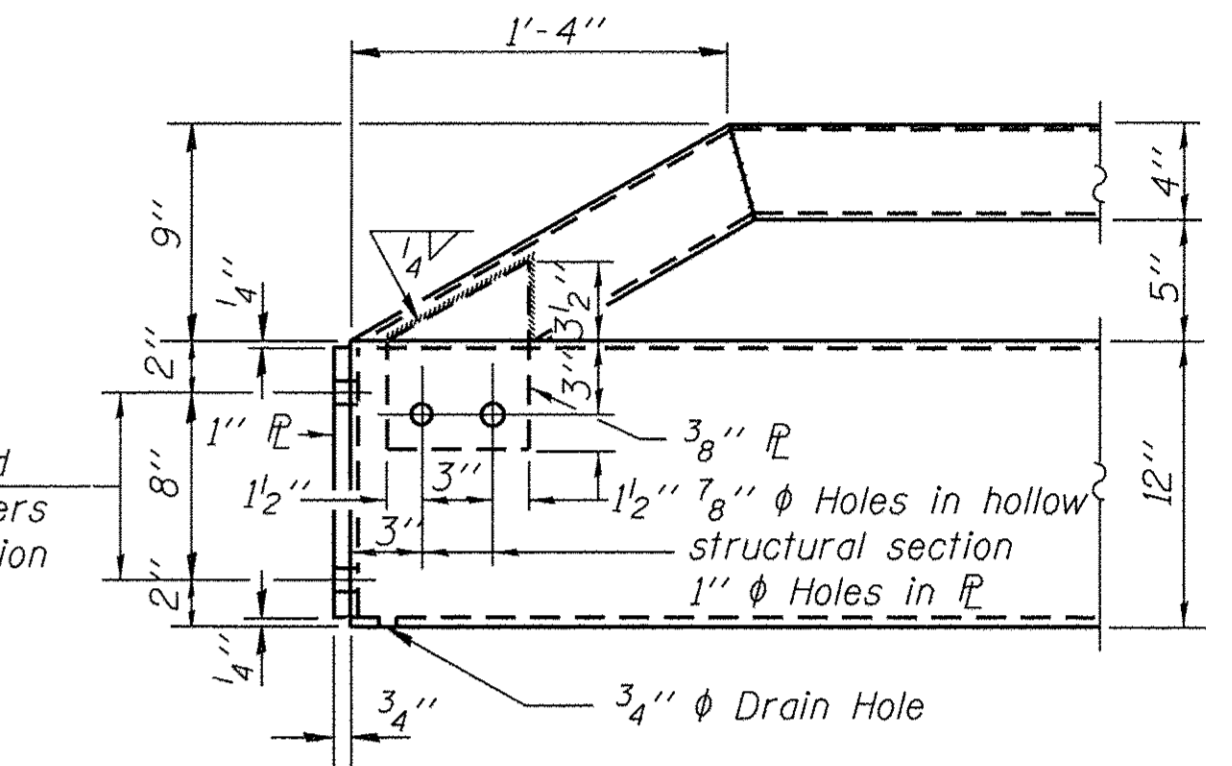
SECTION AT RAIL POST

SPLICE DIMENSIONS

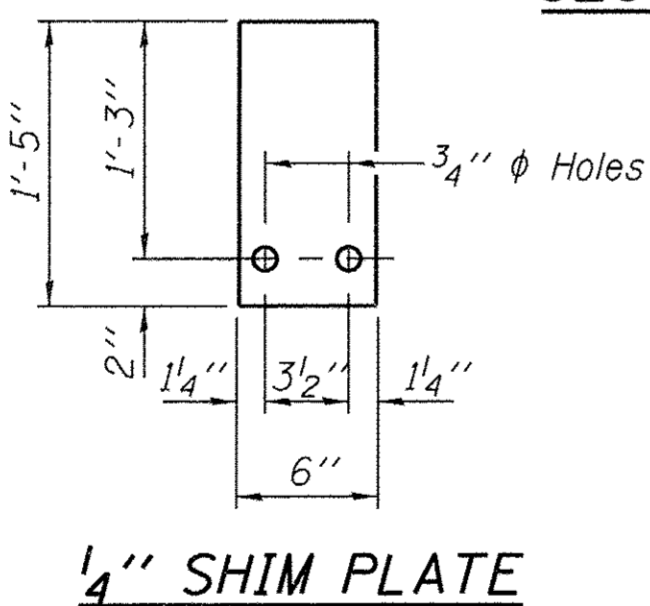
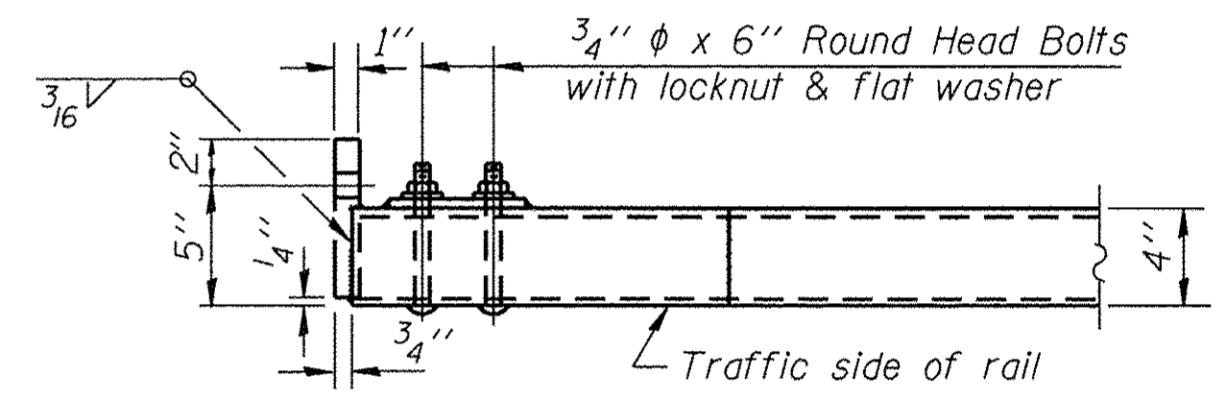
T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	

T = Total movement at expansion joint as shown on the design plans.

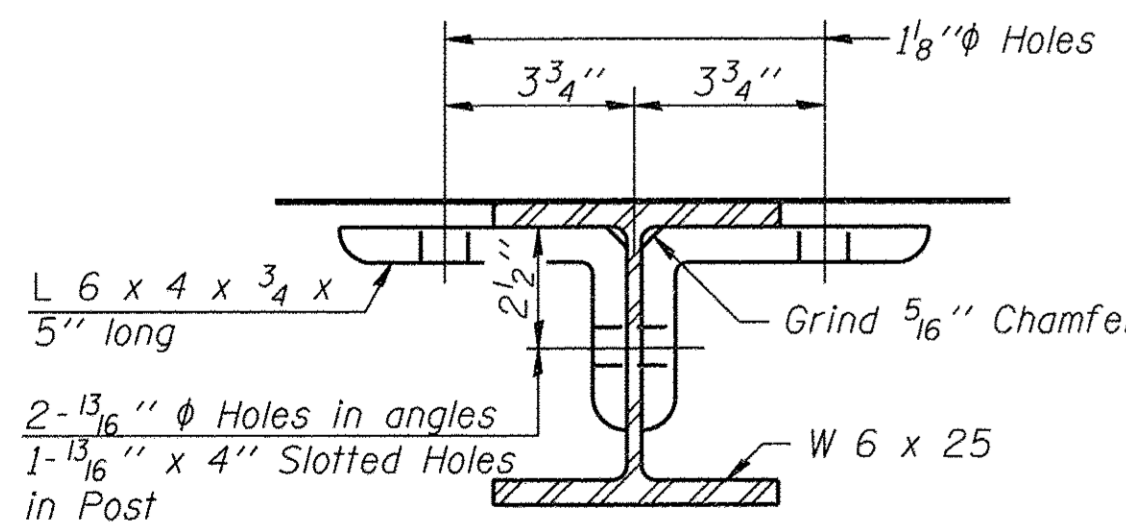
1/8" diameter Holes for 1" diameter x 4" Round Head Bolts. Provide 2 flat washers & locknuts for guard rail connection shown on Hwy. Std. 631026 or BLR 27-1.



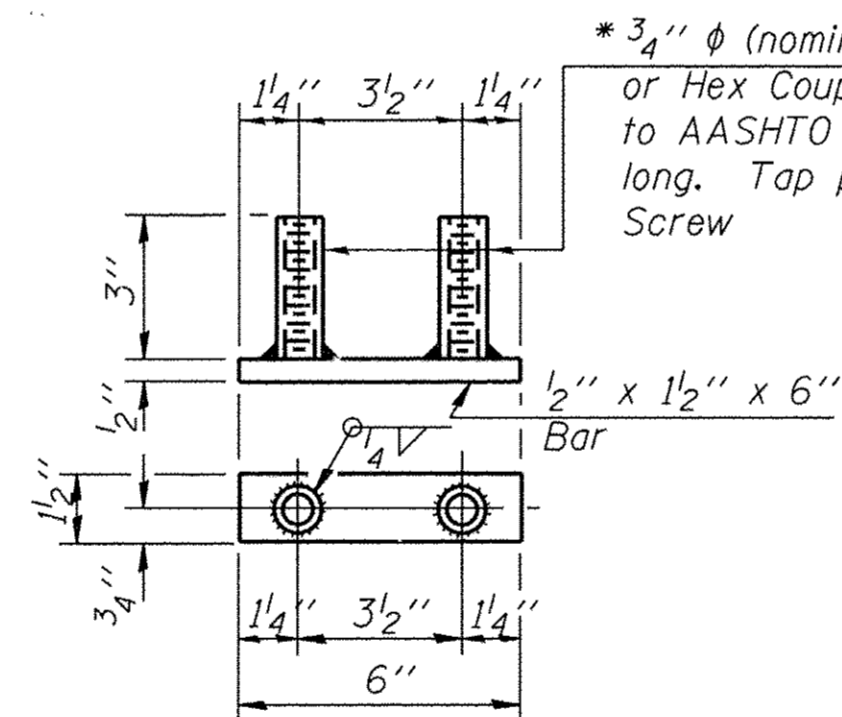
END OF RAIL DETAILS



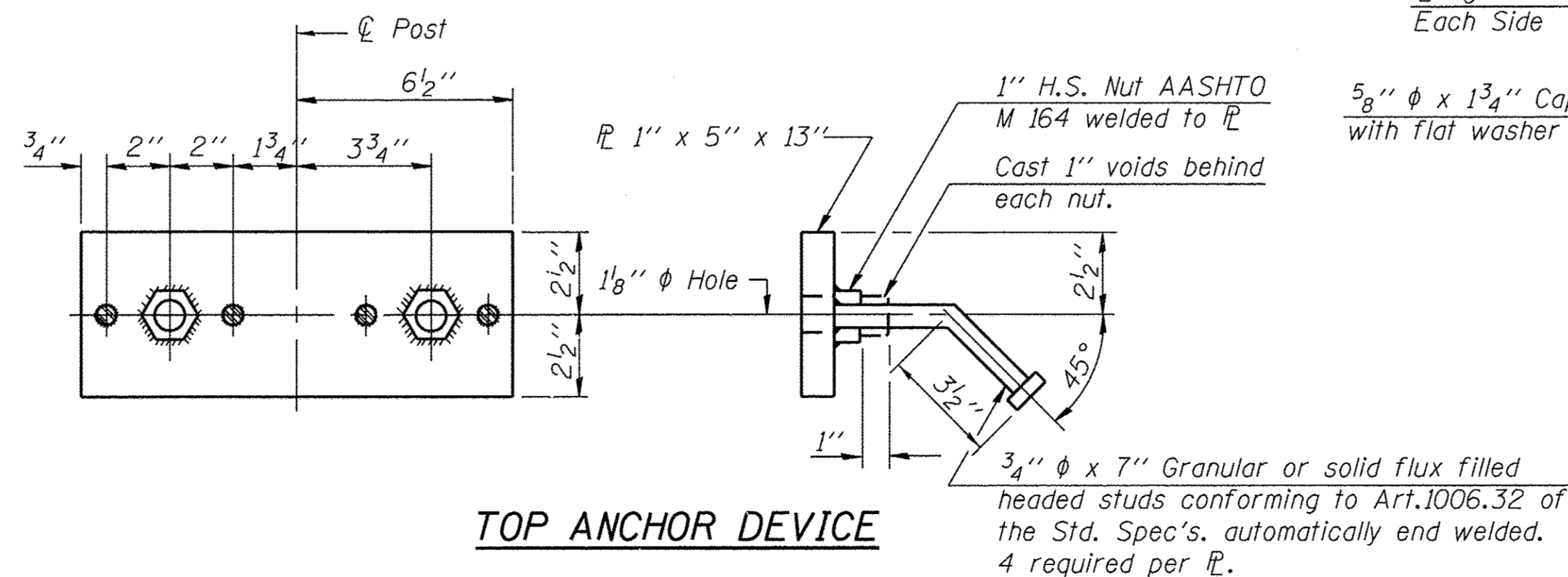
1/4" SHIM PLATE



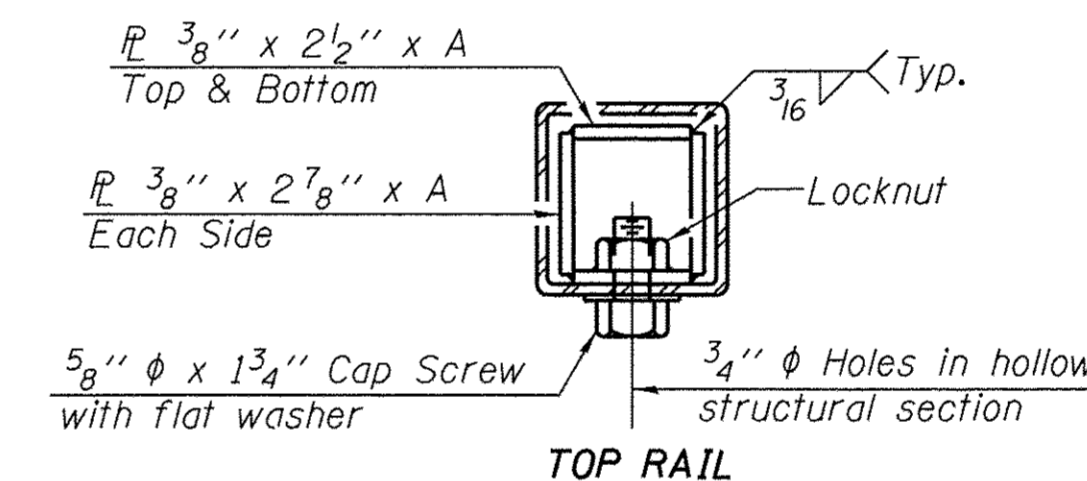
SECTION C-C



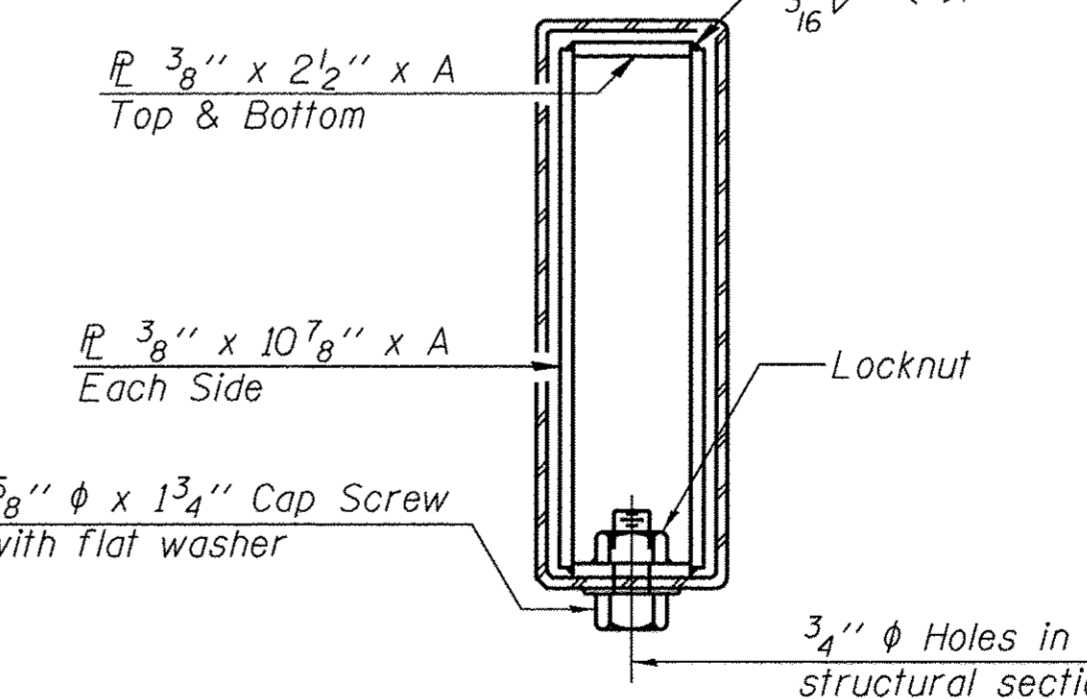
BOTTOM ANCHOR DEVICE



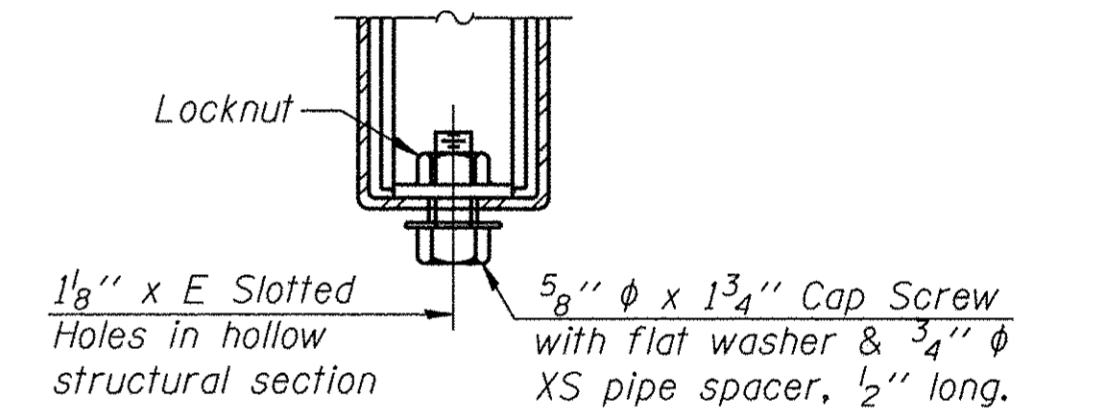
TOP ANCHOR DEVICE



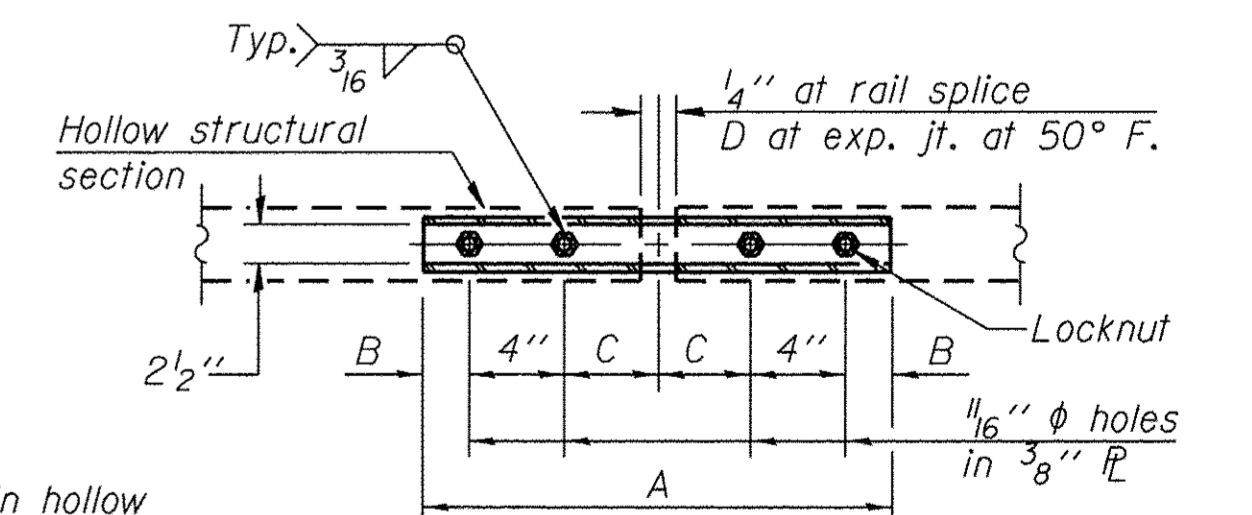
TOP RAIL



**BOTTOM RAIL
SECTIONS AT RAIL SPLICE**



**RAIL SPLICE CONNECTION
AT EXPANSION JT.**



**PLAN-BOTT. SPLICE R
TYPICAL**

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type T-1	Foot	26

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REVISION	DATE	BY	REMARKS

DRAWN
D.A.N.
CHECKED
X.X.X.
APPROVED
X.X.X.

**LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
2017**

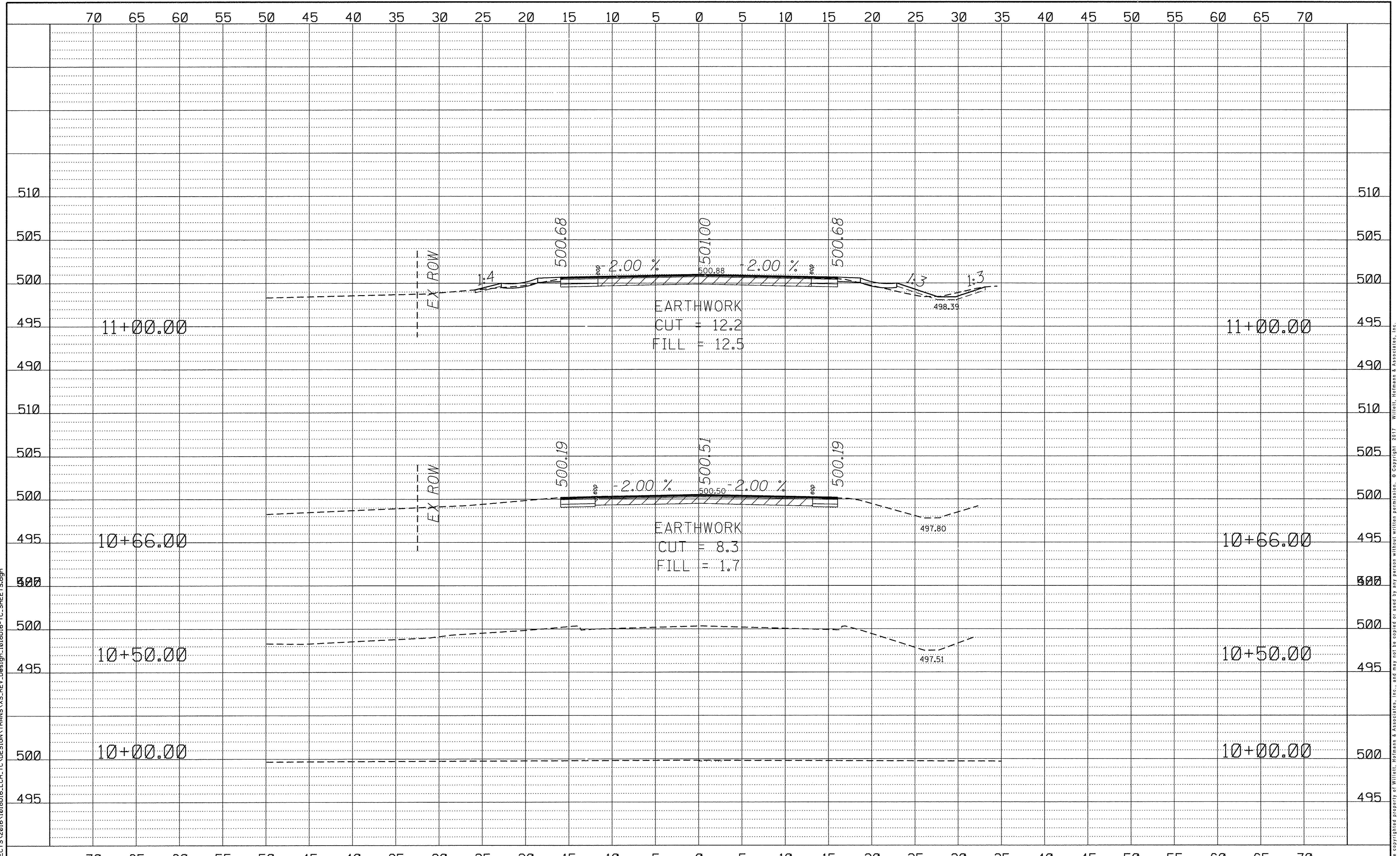


**WILLET HOFMANN
& ASSOCIATES INC.**
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

**STEEL RAILING, TYPE T-1
STATION 52+19.00
STRUCTURAL SHEET 12 OF 12**

C.H. RTEL	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	44
WHA# 1018016		CONTRACT NO. 87648		
ILLINOIS FED. AID PROJECT RS-00990621				

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REVISION	DATE	BY	REMARKS

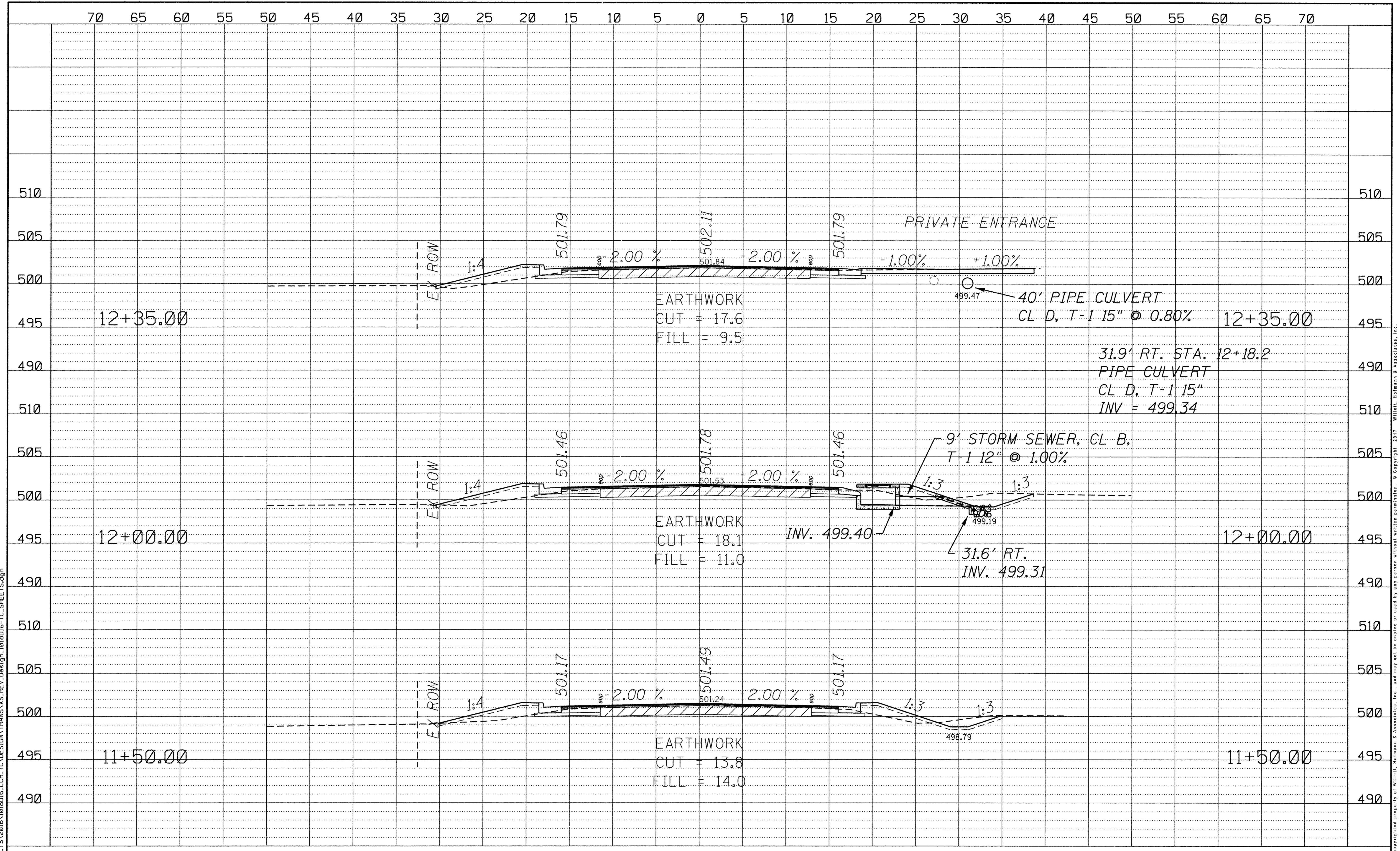
DRAWN
M.P.O.
CHECKED
G.F.S.
APPROVED
M.A.H.

LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
2017



CROSS SECTIONS
STA. 10+00 TO STA. 11+00

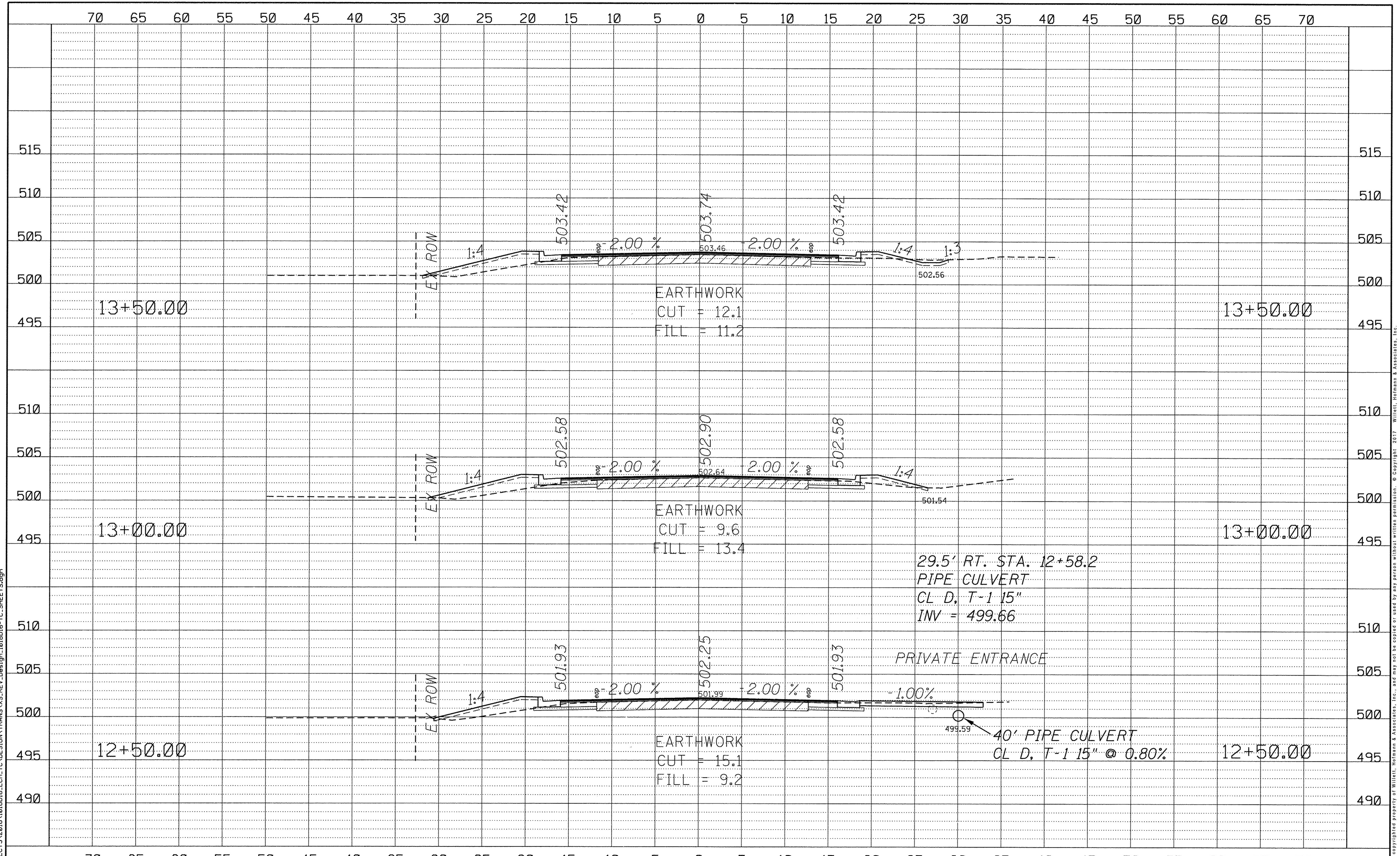
C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	45
WHA* 1018D16		CONTRACT NO. 87648		
ILLINOIS FED. AID PROJECT RS-0099062				



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<table border="1"> <thead> <tr> <th>REVISION</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				REVISION	DATE	BY	REMARKS													<table border="1"> <tr> <td>DRAWN</td> <td>M.P.O.</td> </tr> <tr> <td>CHECKED</td> <td>C.F.S.</td> </tr> <tr> <td>APPROVED</td> <td>M.A.H.</td> </tr> </table>		DRAWN	M.P.O.	CHECKED	C.F.S.	APPROVED	M.A.H.	<p align="center">LASALLE COUNTY TERRA COTTA RD. (C.H. 42) 2017</p>			<p align="center">WILLET-HOFMANN & ASSOCIATES INC. ENGINEERING ARCHITECTURE LAND SURVEYING 809 EAST 2ND STREET, DIXON, IL 61021-0367 T: 815-284-3381 DESIGN FIRM: #184-000918</p>			<p align="center">CROSS SECTIONS</p> <p align="center">STA. 11+50 TO STA. 12+35</p>				<table border="1"> <tr> <td>C.H. RTE.</td> <td>SECTION</td> <td>COUNTY</td> <td>TOTAL SHEETS</td> <td>SHEET NO.</td> </tr> <tr> <td>42</td> <td>15-00348-00-WR</td> <td>LASALLE</td> <td>98</td> <td>46</td> </tr> <tr> <td colspan="2">WHA# 1018D16</td> <td colspan="3">CONTRACT NO. 87648</td> </tr> <tr> <td colspan="5">ILLINOIS FED. AID PROJECT RS-0099062</td> </tr> </table>				C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	42	15-00348-00-WR	LASALLE	98	46	WHA# 1018D16		CONTRACT NO. 87648			ILLINOIS FED. AID PROJECT RS-0099062				
REVISION	DATE	BY	REMARKS																																																										
DRAWN	M.P.O.																																																												
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C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																																																									
42	15-00348-00-WR	LASALLE	98	46																																																									
WHA# 1018D16		CONTRACT NO. 87648																																																											
ILLINOIS FED. AID PROJECT RS-0099062																																																													

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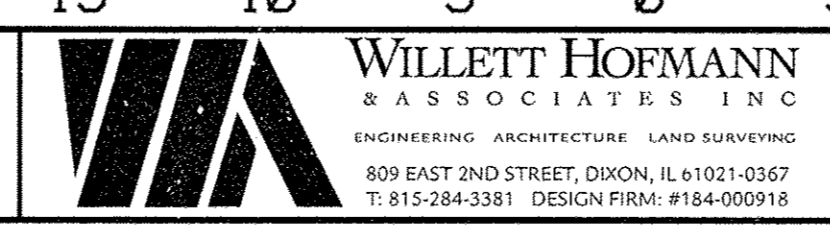


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REVISION	DATE	BY	REMARKS

DRAWN
M.P.O.
CHECKED
G.F.S.
APPROVED
M.A.H.

LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
2017

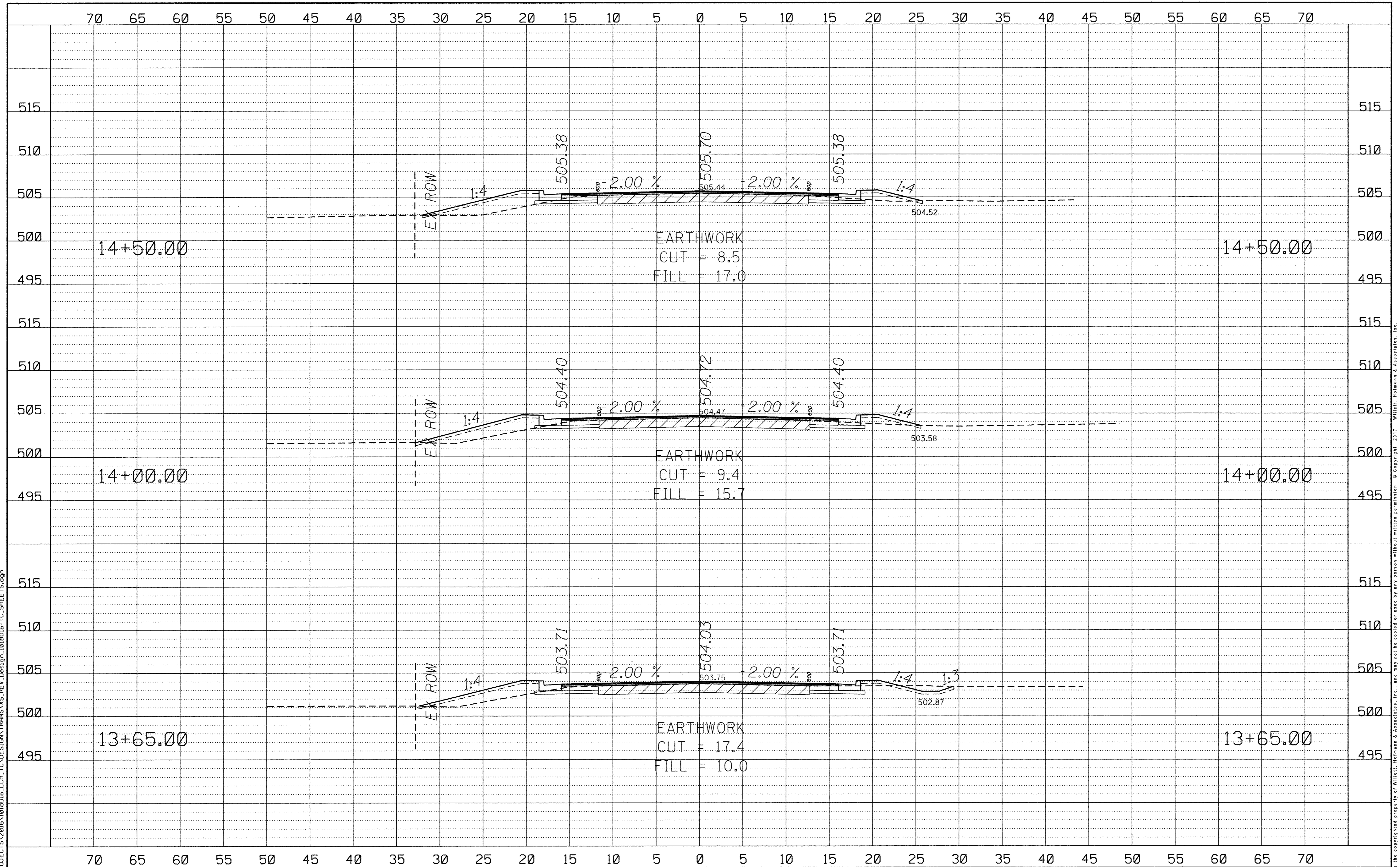


CROSS SECTIONS
STA. 12+50 TO STA. 13+50

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	47
WHA# 1018D16			CONTRACT NO. 87648	
[ILLINOIS] FED. AID PROJECT RS-00990621				

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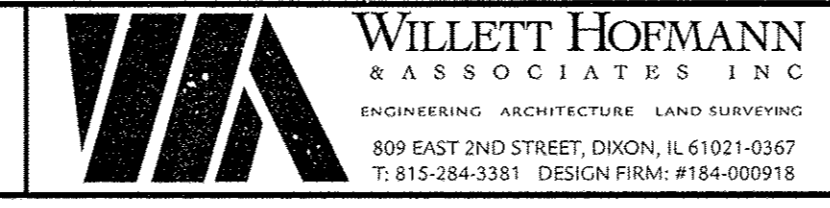
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REVISION	DATE	BY	REMARKS

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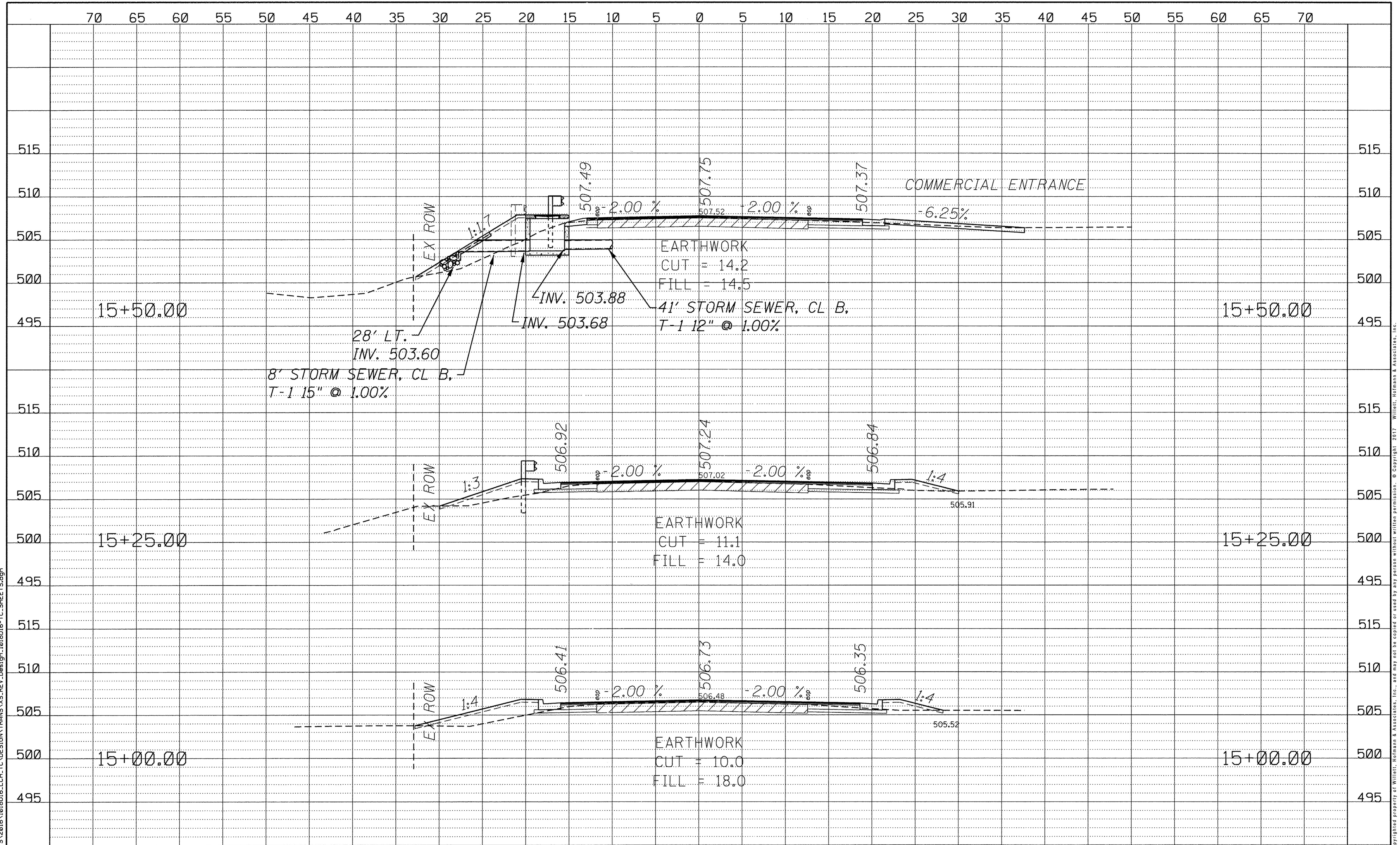
LASALLE COUNTY
TERRA COTTA RD. (C.H. 42)
2017



CROSS SECTIONS
STA. 13+65 TO STA. 14+50

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42	15-00348-00-WR	LASALLE	98	48
WHA* 1018D16		CONTRACT NO. 87648		
ILLINOIS FED. AID PROJECT RS-00990621				

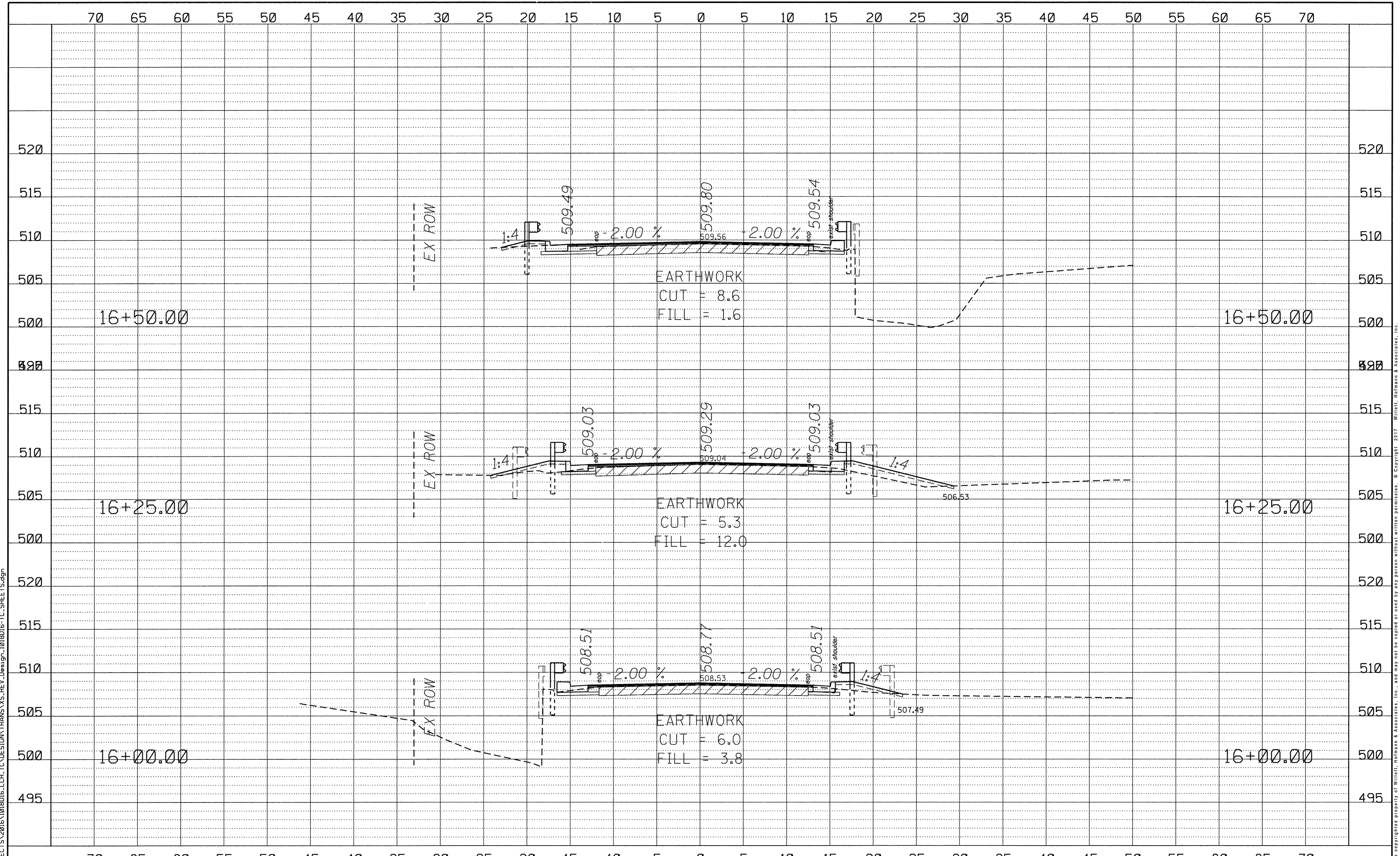
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REVISION	DATE	BY	REMARKS	DRAWN M.P.O.	LASALLE COUNTY TERRA COTTA RD. (C.H. 42) 2017	WILLET HOFMANN & ASSOCIATES INC. <small>ENGINEERING ARCHITECTURE LAND SURVEYING</small> <small>809 EAST 2ND STREET, DIXON, IL 61021-0367</small> <small>T. 815-284-3381 DESIGN FIRM #184-000918</small>	CROSS SECTIONS	C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				CHECKED G.F.S.			STA. 15+00 TO STA. 15+50	42	15-00348-00-WR	LASALLE	98	49
				APPROVED M.A.H.			WHA# 1018D16	CONTRACT NO. 87648	ILLINOIS FED. AID PROJECT RS-0099062			

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<table border="1"> <tr><th>REVISION</th><th>DATE</th><th>BY</th><th>REMARKS</th></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>				REVISION	DATE	BY	REMARKS													<table border="1"> <tr><td>DRAWN</td><td>M.P.O.</td></tr> <tr><td>CHECKED</td><td>G.F.S.</td></tr> <tr><td>APPROVED</td><td>M.A.H.</td></tr> </table>		DRAWN	M.P.O.	CHECKED	G.F.S.	APPROVED	M.A.H.	<p>LASALLE COUNTY TERRA COTTA RD. (C.H. 42) 2017</p>		<p>WILLET HOFMANN & ASSOCIATES INC ENGINEERING ARCHITECTURE LAND SURVEYING 809 EAST 2ND STREET, DIXON, IL 61021-0367 T: 815-284-3381 DESIGN FIRM: #184-000918</p>		<p>CROSS SECTIONS</p> <p>STA. 16+00 TO STA. 16+50</p>				<table border="1"> <tr><th>C.H. RTE.</th><th>SECTION</th><th>COUNTY</th><th>TOTAL SHEETS</th><th>SHEET NO.</th></tr> <tr><td>42</td><td>15-00348-00-WR</td><td>LASALLE</td><td>98</td><td>50</td></tr> <tr><td colspan="2">WHA* 1018D16</td><td colspan="3">CONTRACT NO. 87648</td></tr> <tr><td colspan="5">ILLINOIS FED. AID PROJECT RS-009910621</td></tr> </table>		C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	42	15-00348-00-WR	LASALLE	98	50	WHA* 1018D16		CONTRACT NO. 87648			ILLINOIS FED. AID PROJECT RS-009910621				
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