

FOR UTILITY LOCATION PURPOSES, THIS PROJECT IS LOCATED IN SW. QUARTER OF SECTION 16 AND NW. QUARTER OF SECTION 16, TOWNSHIP 5 NORTH, RANGE 9 WEST OF THE THIRD PRINCIPAL MERIDIAN.

UTILITY INFORMATION CAN BE OBTAINED BY CALLING J.U.L.I.E. AT (800) 892-0123

THE FOLLOWING UTILITY COMPANIES HAVE FACILITIES WITHIN THE LIMITS OF THIS PROJECT:

AMEREN IP
2600 N. CENTER STREET
MARYVILLE, ILLINOIS 62062
(618) 346-1273 (GAS)

AMERITECH
203 GOETHE
COLLINSVILLE, ILLINOIS 62234
(618) 346-6400

AMEREN UE
700 OAKWOOD AVENUE
ALTON, ILLINOIS 62002
(618) 463-4051 (ELECTRIC)

VILLAGE OF EAST ALTON STREET DEPT.
119 WEST MAIN
EAST ALTON, ILLINOIS 62024
(618) 259-7522

CHARTER COMMUNICATIONS
4787 SIGNATURE INDUSTRIAL DR.
EDWARDSVILLE, ILLINOIS 62025
(618) 778-4179

VILLAGE OF EAST ALTON WATER DEPT.
119 WEST MAIN
EAST ALTON, ILLINOIS 62024
(618) 259-4646

OLIN CORPORATION
427 N. SHAMROCK
EAST ALTON, ILLINOIS 62024
(618) 258-2000 (GAS & WATER)

VILLAGE OF EAST ALTON SEWER DEPT.
119 WEST MAIN
EAST ALTON, ILLINOIS 62024
(618) 254-2728

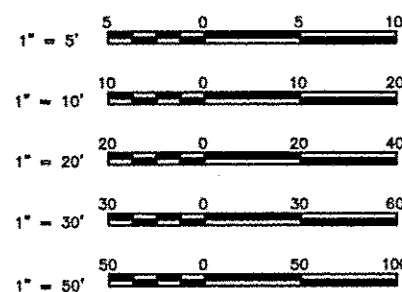
INDEX TO SHEETS

1. COVER SHEET
2. GENERAL NOTES, LEGENDS & CONTROL POINTS
3. SUMMARY OF QUANTITIES
4. PROPOSED TYPICAL SECTIONS & SCHEDULES
- 5.-10. PLAN AND PROFILE
11. GENERAL TRAFFIC CONTROL PLAN
12. PAVEMENT MARKING & SIGNING PLAN
13. TRAFFIC SIGNAL PLAN
14. EXISTING TRAFFIC SIGNAL PLAN (FOR INFO. ONLY)
- 15.-17. CONSTRUCTION DETAILS

HIGHWAY STANDARDS

424001-08	701801-06
424006-02	701901-05
424011-02	720001-01
424016-02	720006-04
424021-03	728001-01
424026-01	780001-05
442101-07	814001-03
606001-06	873001-02
701006-05	876001-04
701011-04	880006-01
701301-04	886001-01
701427-04	886006-01
701501-06	

SCALES



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.

FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR
DESIGN SPEED = 30 M.P.H.
ADT (2011) = 5,400

STATE OF ILLINOIS 04-22-2016 LETTING ITEM 138

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

FEDERAL AID HIGHWAY

SHAMROCK STREET

SECTION 12-00048-00-RS

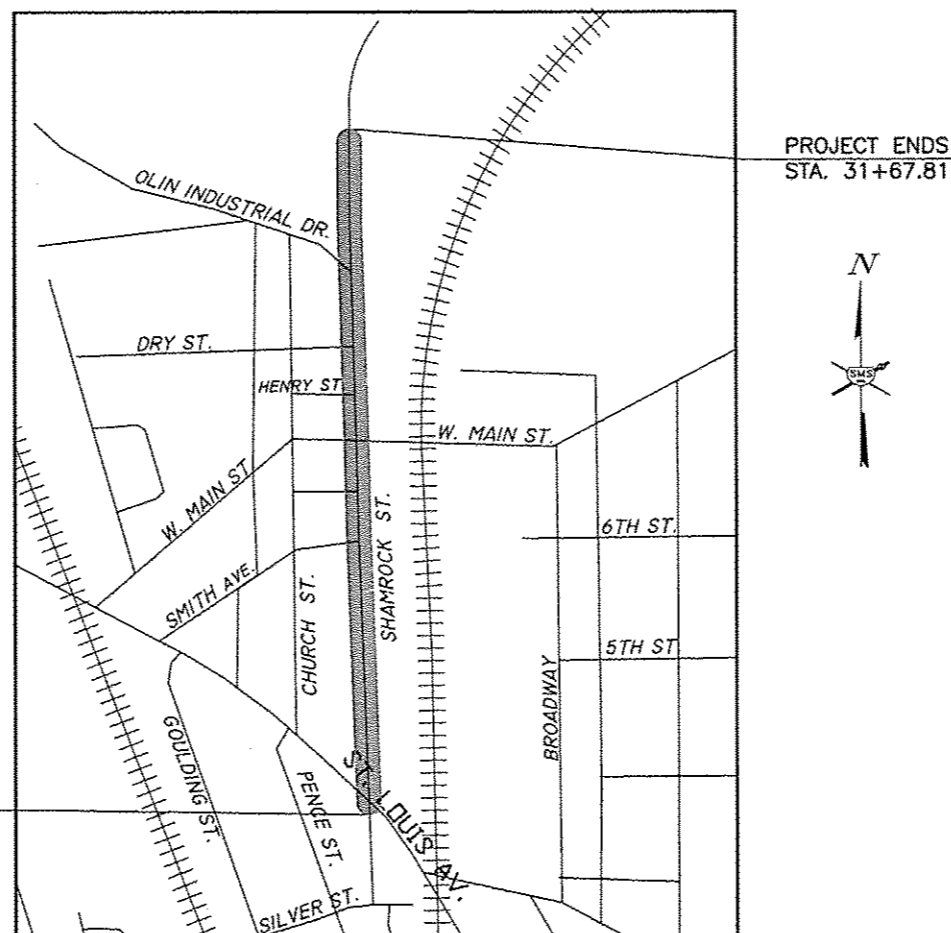
FAU ROUTE 9003

PROJECT M-5011 (386)

VILLAGE OF EAST ALTON, ILLINOIS

MADISON COUNTY

JOB C-98-360-12



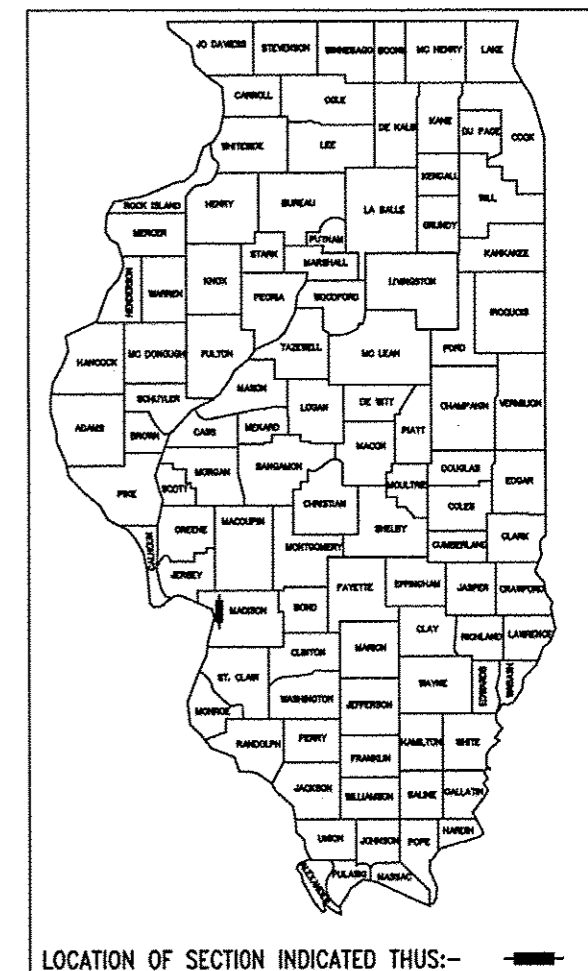
LOCATION MAP
SCALE IN FEET
0 400 800

LENGTH OF PROJECT = 2,751.81 FEET = 0.52 MILES



Sheppard Morgan & Schwaab, Inc.
CONSULTING ENGINEERS & LAND SURVEYORS
215 Market Street
Alton, Illinois 62002
P.O. Box 2
618/482-9766

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12-00048-00-RS	MADISON	17	1
FEDERAL AID PROJECT		CONTRACT NO. 97616	



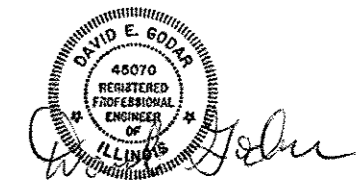
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED: *Joe Silkwood* 7-15 2016
MAYOR JOE SILKWOOD

PASSED: *Jefferson* 2-26 2016
acting DISTRICT & ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
BASED UPON LIMITED
REVIEW: *Jeffrey Keirn* 2/26 2016
JEFFREY KEIRN, P.E.
DEPUTY DIRECTOR OF HIGHWAYS
REGION FIVE ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS



DATE SIGNED 2-12-16
EXPIRATION DATE 11-30-17

STANDARD SYMBOL LEGEND

EXISTING

- EXISTING GUY POLE --○
- EXISTING LIGHT POLE --X
- EXISTING POWER POLE --○
- EXISTING TELEPHONE POLE --○
- EXISTING GUY WIRE --←
- EXISTING TRANSMISSION TOWER --□
- EXISTING ELECTRIC SPLICE BOX --□^E
- EXISTING TELEPHONE SPLICE BOX --□^{TV}
- EXISTING CABLE SPLICE BOX --□^{TV}
- EXISTING WATER HYDRANT --⊕
- EXISTING GAS METER --⊕
- EXISTING WATER METER --⊕
- EXISTING WATER VALVE --⊕
- EXISTING GAS VALVE --⊕
- EXISTING FIRE HYDRANT --⊕^{FH}
- EXISTING SANITARY MANHOLE TOP --⊕
- EXISTING STORM MANHOLE TOP --○
- EXISTING TELEPHONE MANHOLE TOP --⊕
- EXISTING SANITARY CLEAN OUT --⊕
- CONTROL POINT --△^{XXX}
- BENCHMARK --B.M.
- TEST PIT / NUMBER --T.P.# X
- BORING / NUMBER --B.# X
- RIGHT-OF-WAY MARKER --MON
- AXLE FOUND --AXLE
- BOLT FOUND --BOLT
- CHISELED "X" FOUND --X
- PIN FOUND --IP
- PINCH PIPE FOUND --IP
- PK NAIL FOUND --PK
- RAILROAD SPIKE FOUND --RR
- STONE FOUND --STONE
- BRASS MONUMENT FOUND --MON
- IRON PIPE FOUND --IP
- MONUMENT FOUND --MON
- REBAR FOUND --RBR
- EXISTING MAILBOX --F
- EXISTING FENCE POST --⊕
- EXISTING GATE POST --⊕
- EXISTING FLAG POLE --○
- EXISTING GUARD POST --GP
- EXISTING ADVERTISING SIGN --V
- EXISTING TRAFFIC SIGN --T
- EXISTING PARKING METER --⊕
- EXISTING RAILROAD MILE POST --MP
- EXISTING RAILROAD SIGNAL CONTROLLER --S
- EXISTING RAILROAD CROSSING GATE --X
- EXISTING TRAFFIC SIGNAL --T
- EXISTING TRAFFIC SIGNAL CONTROLLER --S
- EXISTING HANDHOLE --H
- EXISTING DOUBLE HANDHOLE --H
- EXISTING MAST ARM BASE --MA
- EXISTING DECIDUOUS TREE / SIZE --XX"
- EXISTING EVERGREEN TREE / SIZE --XX"
- EXISTING STUMP / SIZE --XX"
- EXISTING BUSH --B
- EXISTING SHRUB --S
- EXISTING TREE TO BE REMOVED --XX"

PROPOSED

- PROPOSED GUY POLE --○
- PROPOSED LIGHT POLE --X
- PROPOSED POWER POLE --○
- PROPOSED TELEPHONE POLE --○
- PROPOSED GUY WIRE --←
- PROPOSED TRANSMISSION TOWER --□
- PROPOSED ELECTRIC SPLICE BOX --□^E
- PROPOSED TELEPHONE SPLICE BOX --□^{TV}
- PROPOSED CABLE SPLICE BOX --□^{TV}
- PROPOSED WATER HYDRANT --⊕
- PROPOSED GAS METER --⊕
- PROPOSED WATER METER --⊕
- PROPOSED WATER VALVE --⊕
- PROPOSED GAS VALVE --⊕
- PROPOSED FIRE HYDRANT --⊕^{FH}
- PROPOSED SANITARY MANHOLE TOP --⊕
- PROPOSED STORM MANHOLE TOP --○
- PROPOSED TELEPHONE MANHOLE TOP --⊕
- PROPOSED SANITARY CLEAN OUT --⊕
- PROPOSED MAILBOX --F
- PROPOSED GUARD POST --GP
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- PROPOSED RAILROAD MILE POST --MP
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- PROPOSED RAILROAD CROSSING GATE --X
- PROPOSED TRAFFIC SIGNAL --T
- PROPOSED TRAFFIC SIGNAL CONTROLLER --S
- PROPOSED HANDHOLE --H
- PROPOSED DOUBLE HANDHOLE --H
- PROPOSED MAST ARM BASE --MA
- PROPOSED DECIDUOUS TREE / SIZE --XX"
- PROPOSED EVERGREEN TREE / SIZE --XX"
- PROPOSED BUSH --B
- PROPOSED PLANT --P
- PROPOSED EDGE OF PAVEMENT ELEVATION --+ 512.00 EP
- PROPOSED PAVEMENT ELEVATION --+ 505.50 P
- PROPOSED CURB ELEVATION --+ 550.25 TC
- PROPOSED SIDEWALK ELEVATION --+ 515.15 SW
- PROPOSED FLOWLINE ELEVATION --+ 501.58 FL

SIDEWALK LEGEND

- RAMP -- MAX. SLOPE = 12:1 OR MAX. LENGTH REQUIRED = 15'
- DETECTABLE WARNING
- L -- LANDING -- MIN. SIZE 4' X 4' MAX. SLOPE IN EITHER DIRECTION = 2.0%
- BT -- BLENDED TRANSITION -- MAX. CROSS SLOPE = 2.0%, MAX. RUNNING SLOPE = 5.0%
- T -- TRANSITION TO MEET EXISTING SIDEWALK
- P -- PASSING SPACE -- MIN. SIZE 5' X 5', MAX CROSS SLOPE = 2.0%

STANDARD LINE TYPE LEGEND

EXISTING FEATURES

- EXISTING CENTERLINE
- EXISTING BASELINE
- EXISTING RIGHT-OF-WAY
- EXISTING SECTION LINE
- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING SETBACK
- EXISTING MAJOR CONTOUR --500
- EXISTING MINOR CONTOUR --501
- EXISTING DITCH
- EXISTING POND, LAKE, BODY OF WATER, ETC.
- EXISTING RAILROAD
- EXISTING BRUSH / HEDGE / TREE LINE
- EXISTING FENCE
- EXISTING GUARDRAIL
- EXISTING CULVERT
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING FORCEMAIN
- EXISTING WATER
- EXISTING UNDERGROUND ELECTRIC
- EXISTING GAS
- EXISTING UNDERGROUND TELEPHONE
- EXISTING FIBER OPTIC
- EXISTING UNDERGROUND CABLE TV
- EXISTING OVERHEAD TELEPHONE
- EXISTING OVERHEAD ELECTRIC
- EXISTING OVERHEAD CABLE TV

PROPOSED FEATURES

- PROPOSED CENTERLINE
- PROPOSED BASELINE
- PROPOSED RIGHT-OF-WAY
- PROPOSED LOT LINE
- PROPOSED EASEMENT
- PROPOSED CONSTRUCTION EASEMENT OR TEMPORARY USE PERMIT
- PROPOSED CONSTRUCTION LIMITS
- PROPOSED SETBACK
- PROPOSED MAJOR CONTOUR --500
- PROPOSED MINOR CONTOUR --501
- PROPOSED DITCH
- PROPOSED POND, LAKE, BODY OF WATER, ETC.
- PROPOSED RAILROAD
- PROPOSED FENCE
- PROPOSED GUARDRAIL
- PROPOSED PERIMETER EROSION BARRIER
- PROPOSED CULVERT
- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER
- PROPOSED FORCEMAIN
- PROPOSED WATER
- PROPOSED UNDERGROUND ELECTRIC
- PROPOSED GAS
- PROPOSED UNDERGROUND TELEPHONE
- PROPOSED FIBER OPTIC
- PROPOSED UNDERGROUND CABLE TV
- PROPOSED OVERHEAD TELEPHONE
- PROPOSED OVERHEAD ELECTRIC
- PROPOSED OVERHEAD CABLE TV

ABBREVIATIONS

ADT	AVERAGE DAILY TRAFFIC	OL	OPEN UD
BK	BACK	PC	POINT OF CURVE
BM	BENCH MARK	PE	PRIVATE ENTRANCE
BVCE	BEGIN VERTICAL CURVE ELEVATION	PI	POINT OF INTERSECTION
BVCS	BEGIN VERTICAL CURVE STATION	PK	PK NAIL
C&G	CURB AND GUTTER	PP	POWER POLE
C/L	CENTER LINE	PRCF	PRECAST REINFORCED CONCRETE FLARED
CE	COMMERCIAL ENTRANCE	PT	POINT OF TANGENT
CI	CAST IRON	PVC	POINT OF VERTICAL CURVE
CL	CLOSED UD	R	RADIUS
CM	CONCRETE MONUMENT	RBR	REBAR
CMP	CORRUGATED METAL PIPE	RDMH	RESTRICTED DEPTH MANHOLE
CONC	CONCRETE	ROW	RIGHT OF WAY
CT	CRIMP TOP PIPE	RR	RAIL ROAD
CU YD	CUBIC YARD	RAPM	RAISED REFLECTIVE PAVEMENT MARKER
DE	DRAINAGE EASEMENT	RT	RIGHT
DIP	DUCTILE IRON PIPE	S	SOUTH
E	EAST	SE	SOUTHEAST
ELEV	ELEVATION	SL	SECTION LINE
EP	EDGE OF PAVEMENT	SS1	STORM SEWER TYPE 1
EQN STA	EQUATION STATION	SS2	STORM SEWER TYPE 2
ES	EDGE OF SHOULDER	SS3	STORM SEWER TYPE 3
FE	FIELD ENTRANCE	STA	STATION
FH	FIRE HYDRANT	SW	SOUTHWEST
FL	FLOW LINE	TB	TRENCH BACKFILL
FT	FOOT	TBR	TO BE REMOVED
FWD	FORWARD	TC	TOP OF CURB
GP	GUARD POST	TCE	TEMPORARY CONSTRUCTION EASEMENT
HDPE	HIGH DENSITY POLYETHYLENE	TPM	TEMPORARY PAVEMENT MARKING
HMA	HOT-MIX ASPHALT	TPPM	THERMOPLASTIC PAVEMENT MARKING
IP	IRON PIPE	TUP	TEMPORARY USE PERMIT
LT	LEFT	TY	TYPE
MON	MONUMENT	TYP	TYPICAL
MP	MILE PIPE	VC	VERTICAL CURVE
N	NORTH	VCP	VITRIFIED CLAY PIPE
NE	NORTHEAST	W	WEST
NW	NORTHWEST	WMA	WATER MAIN QUALITY
O&C	OIL AND CHIP		

GENERAL NOTES

- THIS PROJECT SHALL BE CONSTRUCTED ACCORDING TO THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED APRIL 1, 2016 AND THE SPECIAL PROVISIONS OF THE PROJECT CONTRACT.
- THE PLANS SHOW THE APPROXIMATE LOCATION OF KNOWN UTILITIES, BUT DO NOT SHOW HOUSE OR SERVICE CONNECTIONS. UTILITY INFORMATION PROVIDED IS BASED ON INFORMATION OBTAINED FROM UTILITY COMPANIES AND SHALL NOT BE CONSIDERED TO BE ACCURATE OR COMPLETE. THE CONTRACTOR SHALL USE ALL DUE PRECAUTION NOT TO DAMAGE OR DISTURB ANY UTILITIES AND THE ENTIRE COST OF MAKING REPAIRS TO, OR REPLACEMENT OF, ANY DAMAGED LINE WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- PROPOSED ELEVATIONS SHOWN ON THE PLANS AS +/- ARE APPROXIMATE, EXACT ELEVATIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. IF APPLICABLE, ELEVATIONS SHALL BE DETERMINED PRIOR TO FABRICATION OF THE DRAINAGE STRUCTURES.
- SEE TYPICAL SECTION SHEETS FOR TYPICAL SECTION NOTES.
- PLAN QUANTITIES FOR HOT-MIX ASPHALT ITEMS WERE CALCULATED BASED ON USING 112 LBS. / SQ. YD. / IN.
- UNLESS OTHERWISE PROVIDED FOR HEREIN, THE CONTRACTOR SHALL PROTECT AND RESTORE EXISTING TRAFFIC SIGNS IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS. AT LOCATIONS WHERE NEW SIGNS REPLACE EXISTING SIGNS, THE CONTRACTOR SHALL REMOVE THE EXISTING SIGNS AND DELIVER THEM TO THE VILLAGE OF EAST ALTON STREET DEPARTMENT. THE COST OF THIS WORK WILL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ALL CONSTRUCTION ON THIS PROJECT SHALL COMPLY WITH THE REQUIREMENTS OF THE "PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES" (PROWAG) WITHIN THE PEDESTRIAN ACCESS ROUTE (PAR). THE PAR IS A SPACE WITH A MINIMUM WIDTH OF 4 FEET WITHIN SIDEWALKS, CURB RAMPS, DRIVEWAY PAVEMENTS AND PAVEMENT SURFACE WITHIN CROSSWALKS.
- AT LOCATIONS WHERE CONCRETE CURB, TYPE B OR COMBINATION CONCRETE CURB AND GUTTER IS REMOVED AND REPLACED ADJACENT TO AREAS WHERE THE HOT MIX ASPHALT RESURFACING EXTENDS TO THE CURB, DEPRESSED CURBS FOR DRIVEWAYS OR CURB RAMPS SHALL BE PLACED AT THE PROPER HEIGHT REQUIRED TO MEET THE PROPOSED FINAL PAVEMENT SURFACE.
- CURB PREVIOUSLY PLACED MONOLITHIC W / SIDEWALK WILL BE PAID SEPARATELY FOR CURB REMOVAL.

COMMITMENTS

NONE

BENCHMARK INFORMATION

SITE BENCHMARK:
CUT CROSS IN THE SIDEWALK, LOCATED NEXT TO A CONCRETE ENTRANCE EAST OF THE RAILROAD TRACKS, 59'± EAST OF THE C/L OF TRACKS AND 21'± SOUTH OF THE C/L OF MAIN ST.
ELEV. = 439.19

SURVEY CONTROL POINTS

VERTICAL CONTROL (BENCH MARKS)			
CONTROL POINT	LOCATION	ELEVATION	DESCRIPTION
2007	STA. 8+73.78, 23.21 RT.	444.26	R.R. SPIKE IN POWER POLE
2010	STA. 13+21.28, 22.22 RT.	442.87	R.R. SPIKE IN POWER POLE

HORIZONTAL CONTROL				
CONTROL POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
2000	807598.422	2312551.305	440.50	CUT CROSS
2001	807909.565	2312499.687	439.98	CUT CROSS
2002	808245.441	2312555.299	440.98	RE-BAR W / CAP
2003	808471.144	2312492.156	435.25	CUT CROSS E. RIM OF M.H.
2004	806791.802	2312574.313	442.61	CUT CROSS
2005	806538.574	2312534.005	441.695	MAG NAIL
2006	806200.052	2312597.812	442.760	CUT CROSS
2008	805888.598	2312584.181	434.890	CUT CROSS
2009	805675.748	2312605.838	429.865	R.R. SPIKE WITH CROSS

* ELEVATIONS SHOULD BE CHECKED FROM A BENCHMARK.

REVISIONS	
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SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
CONSULTING ENGINEERS AND LAND SURVEYORS
213 Main Street, P.O. Box E, Alton, IL 62002 618-462-9155 Email: ms@smsengineers.com
DESIGN FIRM # 184-000992

VILLAGE OF EAST ALTON, ILLINOIS
SECTION 12-00048-00-RS
SHAMROCK STREET
GENERAL NOTES, LEGENDS & CONTROL POINTS

CONTRACT NO.	97616
EA SHAMROCK GEN NOTES.DWG	
REF. BK.	PG.
JOB NO.	228653.1
DSN. BY:	DEG
DWN. BY:	CDP
CHK. BY:	DEG
DATE:	OCTOBER, 2015
SCALE:	NONE
SHEET	2 OF 17

SUMMARY OF QUANTITIES

CODE NO.	CONSTRUCTION TYPE CODE ITEM	0005	
		UNIT	QUANTITY
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	10
31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	20
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	6
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	4,921
40600990	TEMPORARY RAMP	SQ YD	217
40603540	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	919
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	9
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	12
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	3,456
42400800	DETECTABLE WARNINGS	SQ FT	200
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	10,935
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	13
44000300	CURB REMOVAL	FOOT	584
44000600	SIDEWALK REMOVAL	SQ FT	3,391
44200956	CLASS B PATCHES, TYPE II, 9 INCH	SQ YD	118
44200962	CLASS B PATCHES, TYPE III, 9 INCH	SQ YD	69
44200964	CLASS B PATCHES, TYPE IV, 9 INCH	SQ YD	202
44201299	DOWEL BARS 1 1/2"	EACH	516
44213100	PAVEMENT FABRIC	SQ YD	271
44213200	SAW CUTS	FOOT	931
44213204	TIE BARS 3/4"	EACH	78
60600605	CONCRETE CURB, TYPE B	FOOT	646
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	3
67100100	MOBILIZATION	LSUM	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	480
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	160
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	61.2
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	6,430

CODE NO.	CONSTRUCTION TYPE CODE ITEM	0005	
		UNIT	QUANTITY
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	1,473
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	352
72000100	SIGN PANEL - TYPE 1	SQ FT	39
72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	3.75
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	62
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	61.2
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	6,430
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1,473
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	352
78300100	PAVEMENT MARKING REMOVAL	SQ FT	538
* 81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	100
* 81400100	HANDHOLE	EACH	1
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	132
* 87600100	PEDESTRIAN PUSH-BUTTON POST, TYPE I	EACH	2
* 87900200	DRILL EXISTING HANDHOLE	EACH	2
* 88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	8
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	294
* 88800100	PEDESTRIAN PUSH-BUTTON	EACH	8
X0322024	TRENCH DRAIN	EACH	1
* X0326773	MODIFY EXISTING TRAFFIC SIGNAL POST FOUNDATION	EACH	1
X1200034	INLET TO BE ADJUSTED WITH NEW LID - SPECIAL	EACH	4
* X1400031	REMOVE PEDESTRIAN PUSH-BUTTON	EACH	8
X4400196	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL	SQ YD	48
X6026056	SANITARY MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	4
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1
* X8950307	REMOVE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	8
XX008221	TRENCH DRAIN REMOVAL	FOOT	5

* DENOTES SPECIALTY ITEM

REVISIONS					
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SMS Sheppard, Morgan & Schwaab, Inc.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 215 Maple Street, P.O. Box E, Alton, IL 62002 618-462-9755 Email: ms@smssheppard.com
ENGINEERS DESIGN FIRM # 184-000992

VILLAGE OF EAST ALTON, ILLINOIS
 SECTION 12-00048-00-RS
 SHAMROCK STREET
 SUMMARY OF QUANTITIES

CONTRACT NO.	97616
EA SHAMROCK SUM QUAN DWG	
REF. BK.	PG.
JOB NO.	22853.1
DSN. BY:	DEG
DWN. BY:	CDP
CHK. BY:	DEG
DATE:	OCTOBER, 2015
SCALE:	NONE
SHEET	3 OF 17

SIGNING SCHEDULE

LOCATION STATION	LEGEND OR TYPE	MUTCD SIGN DESIGNATION	SIZE	SIGN PANEL - TYPE 1 (SQ. FT.)	TELESCOPING STEEL SIGN SUPPORT (FT.)
ST. LOUIS/ SHAMROCK AVE.	PEDESTRIAN PUSH BUTTON	R10-3	9" X 12"	6.00 (8 EACH)	N/A
27+55 RT.	PEDESTRIAN "AHEAD"	W11-2 W16-9P	30" X 30" 24" X 12"	6.25 2.00	15.5
29+35 RT.	PEDESTRIAN DOWNWARD DIAGONAL ARROW	W11-2 W16-7P	30" X 30" 24" X 12"	6.25 2.00	15.5
29+50 LT.	PEDESTRIAN DOWNWARD DIAGONAL ARROW	W11-2 W16-7P	30" X 30" 24" X 12"	6.25 2.00	15.5
31+35 LT.	PEDESTRIAN "AHEAD"	W11-2 W16-9P	30" X 30" 24" X 12"	6.25 2.00	15.5
TOTALS				39.0	62.0

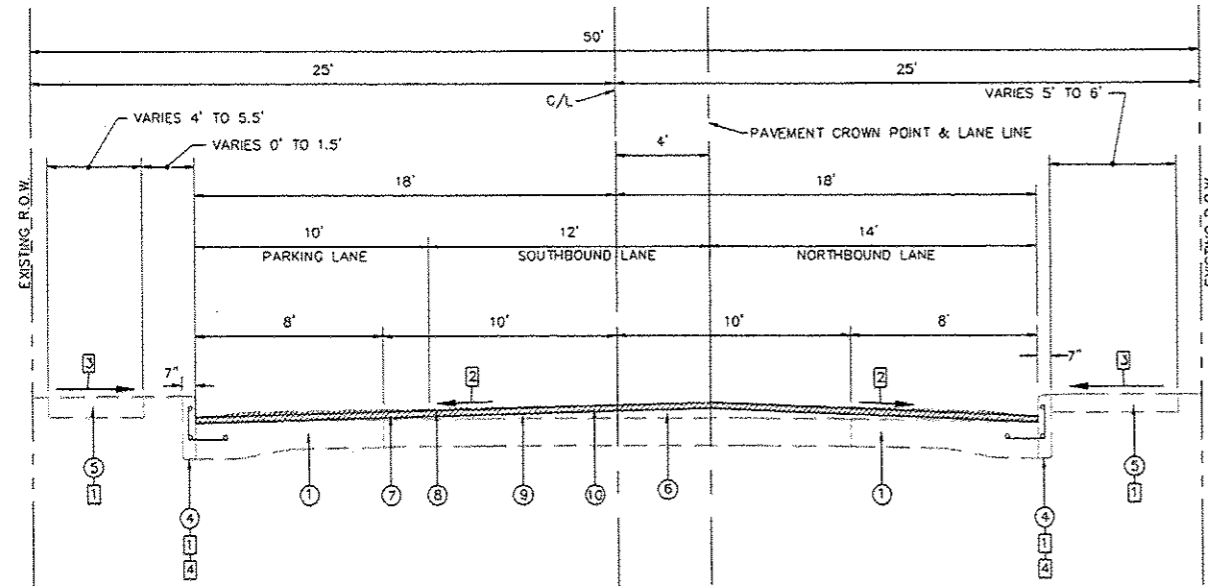
PAVEMENT PATCHING SCHEDULE

STATION TO STATION	LENGTH (FEET)	WIDTH (FEET)	CLASS "B" PATCHES, 9 INCH (SQ. YD.)			DOWEL BARS 1-1/2" (EACH)	PAVEMENT FABRIC (SQ. YD.)	TIE BARS 3/4" (EACH)	SAW CUTS (FOOT)
			TYPE II	TYPE III	TYPE IV				
5+38.80	5+99 LT	VAR	VAR			52	112	30	123
6+50	6+56 LT	6.0	18.0	12.0		32			48
6+50	6+56 RT	6.0	18.0	12.0		32			42
6+82	6+88 LT	6.0	18.0	12.0		32			48
6+82	6+88 RT	6.0	18.0	12.0		32			42
7+43	7+49 LT	6.0	10.0	6.7		16			32
7+43	7+49 RT	6.0	9.0	6.0		16			24
7+68	7+86 RT	VAR	VAR		24.0	32	24		72
7+77	7+83 LT	6.0	10.0	6.7		16			26
8+06	8+12 LT	6.0	10.0	6.7		16			32
8+06	8+12 RT	6.0	18.0	12.0		32			42
8+22	8+52 RT	VAR	VAR		36.0	32	36	15	84
8+37	8+43 LT	6.0	18.0	12.0		32			42
8+68	8+76 RT	8.0	9.0	8.0		16			31
8+19	9+44 RT	25.0	9.0		25.0	16	25	12	43
9+58	9+81 RT	VAR	VAR		29.0	32	29	11	59
9+64	9+70 LT	6.0	18.0	12.0		32			42
10+20	10+32 RT	12.0	18.0		24.0	32	24		60
11+35	11+56 RT	21.0	9.0		21.0	16	21	10	39
TOTALS:			118	69	202	516	271	78	931

MIX DESIGNS

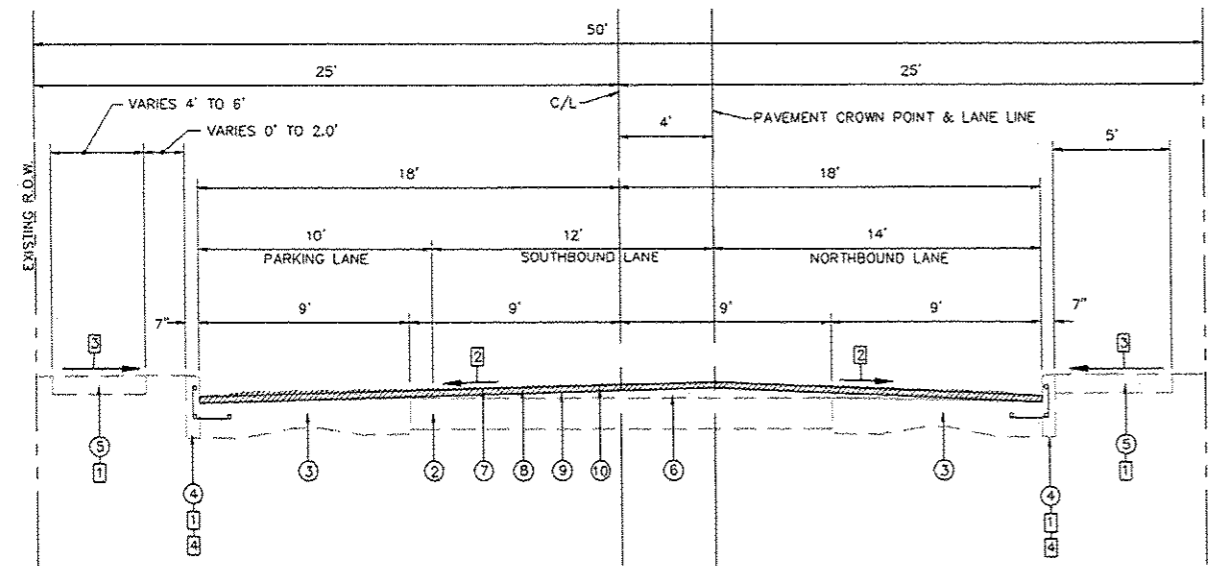
MIXTURE USE	POLY SURFACE	INCIDENTAL
AC/PG	5B5 PG 76-22	PG 64-22
MAX. RAP %	*	*
DESIGN AIR VOIDS	4% @ NDES = 70	4% @ NDES = 70
MIX COMPOSITION (GRADATION MIXTURE)	IL-9.5 OR IL-12.5	----
FRICITION AGG.	MIX D	MIX C

* SEE SPECIAL PROVISIONS



PROPOSED TYPICAL SECTION SHAMROCK ST.

STA. 5+38.80 TO STA. 15+54



PROPOSED TYPICAL SECTION SHAMROCK ST.

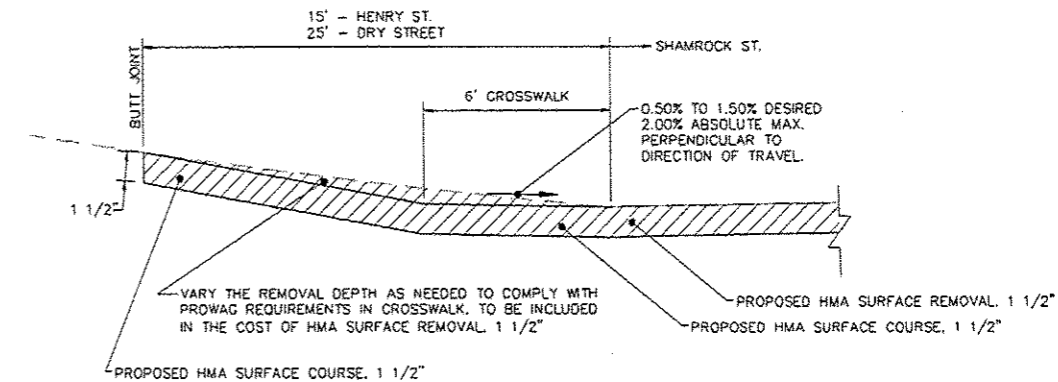
STA. 15+54 TO STA. 31+67.81

TYPICAL SECTION NOTES

- 1 SEE PLANS FOR LOCATIONS TO BE REMOVED AND REPLACED.
- 2 MATCH EXISTING CROSS SLOPE. (1/2" REMOVAL DEPTH AT FACE OF CURB AND AT CROWN POINT)
- 3 NEW SIDEWALK CROSS SLOPE PERPENDICULAR TO THE DIRECTION OF TRAVEL SHALL BE 1.00% DESIRED WITH 2.00% ABSOLUTE MAXIMUM. THE ONLY EXCEPTION IS TRANSITION PANELS THAT MEET EXISTING SIDEWALK.
- 4 2 NO.5 LONGITUDINAL BARS SHALL BE PROVIDED IN CONCRETE CURB, TYPE B TO MATCH EXISTING CONSTRUCTION. THE BARS SHALL BE "L" BARS ROTATED TO PROVIDE 3" OF CLEARANCE. THE BARS SHALL BE DRILLED AND GROUTED AT 24" CENTERS.

PAVING LEGEND

- 1 EXISTING P.C.C. PAVEMENT, 7" THICKENED TO 9" AT OUTER EDGES
- 2 EXISTING P.C.C. PAVEMENT, 8"
- 3 EXISTING P.C.C. PAVEMENT WIDENING, 9"-7"-9" DESIGN
- 4 EXISTING CONCRETE CURB, TYPE B (DOWELED AND WITH 2 NO.5 LONGITUDINAL BARS)
- 5 EXISTING P.C.C. SIDEWALK
- 6 EXISTING HMA LEVELING BINDER CONSTRUCTED IN 1989 TO RELOCATE PAVEMENT CROWN
- 7 EXISTING HMA (1" BINDER + 1 1/2" SURFACE)
- 8 PROPOSED HMA SURFACE REMOVAL, 1 1/2"
- 9 PROPOSED POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)
- 10 PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "D", N 70 (1 1/2")



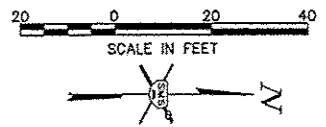
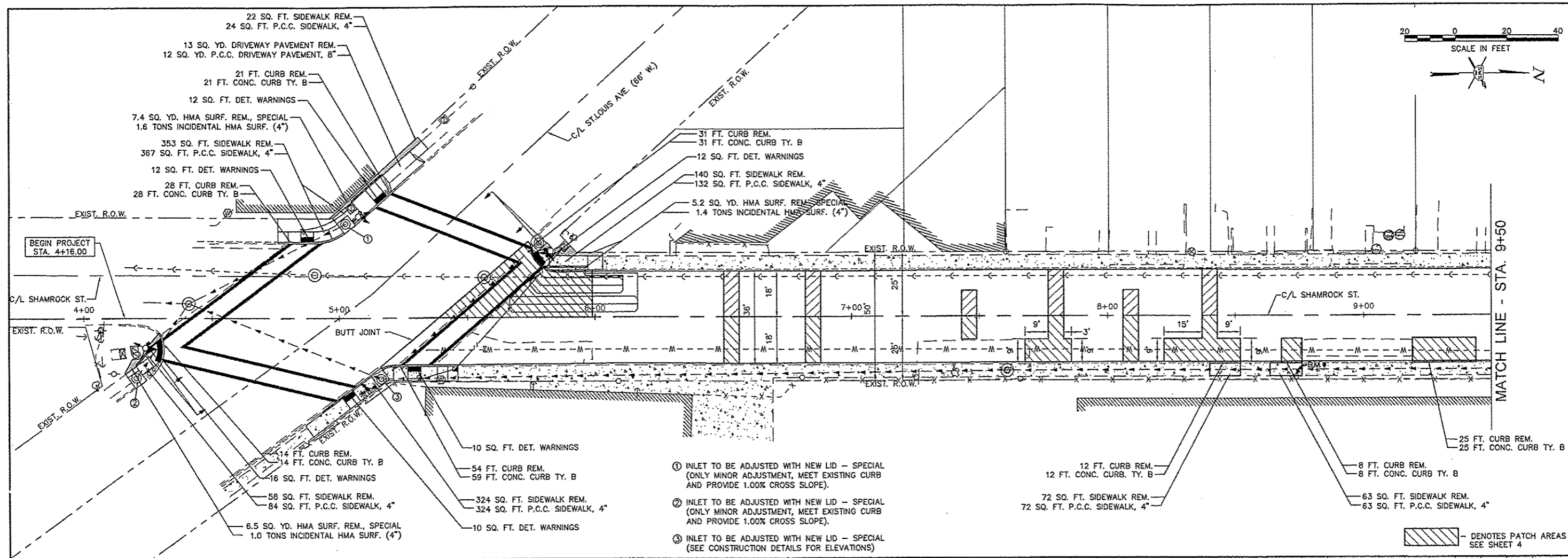
PROPOSED TYPICAL SECTION AT SIDE ROAD

HENRY ST.
DRY ST.

SMS Sheppard, Morgan & Schwaab, Inc.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 215 Main Street, P.O. Box E, Alton, IL 62002 618-293-9155 Email: mal@smssheppard.com
 DESIGN FIRM # 184-000992

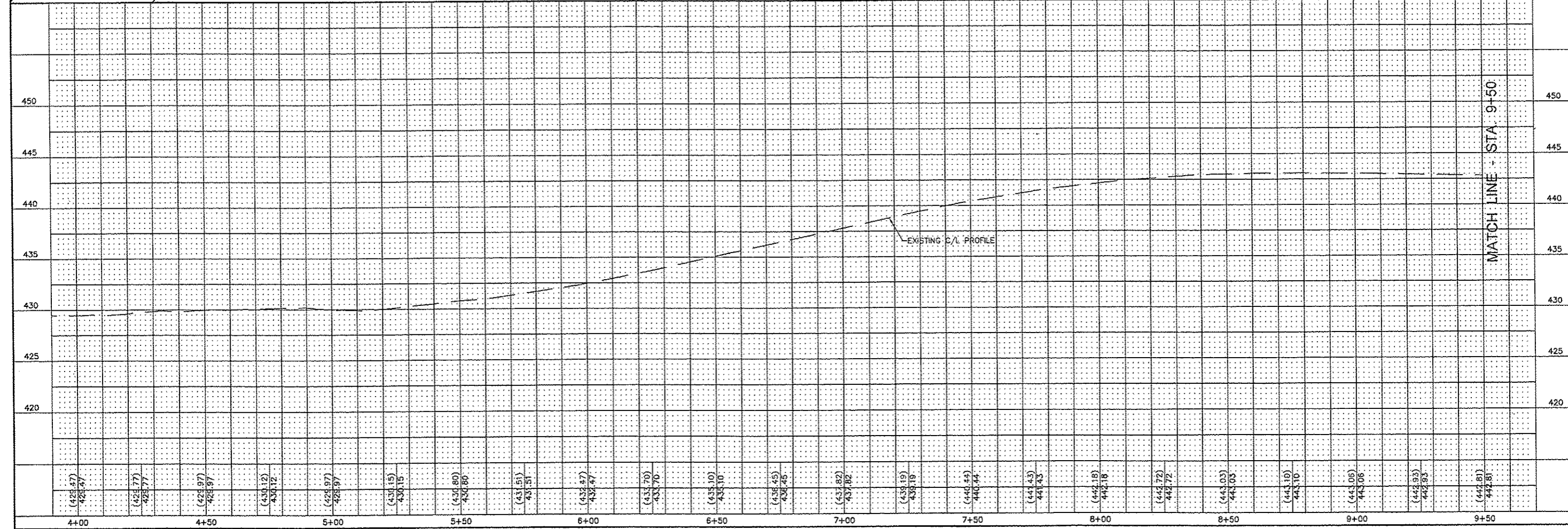
VILLAGE OF EAST ALTON, ILLINOIS
 SECTION 12-00048-00-RS
 SHAMROCK STREET
 PROPOSED TYPICAL SECTIONS AND SCHEDULES

CONTRACT NO. 97616
 EA SHAMROCK TYP.DWG
 REF. BK. PG.
 JOB NO. 228653.1
 DSN. BY: DEC
 DWN. BY: COP
 CHK. BY: DEC
 DATE: OCTOBER, 2015
 SCALE: 1"=4'
 SHEET 4 OF 17



- ① INLET TO BE ADJUSTED WITH NEW LID - SPECIAL (ONLY MINOR ADJUSTMENT, MEET EXISTING CURB AND PROVIDE 1.00% CROSS SLOPE).
- ② INLET TO BE ADJUSTED WITH NEW LID - SPECIAL (ONLY MINOR ADJUSTMENT, MEET EXISTING CURB AND PROVIDE 1.00% CROSS SLOPE).
- ③ INLET TO BE ADJUSTED WITH NEW LID - SPECIAL (SEE CONSTRUCTION DETAILS FOR ELEVATIONS)

DENOTES PATCH AREAS SEE SHEET 4



REVISIONS

SMS ENGINEERS
 Sheppard, Morgan & Schwaab, Inc.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 215 Market Street, P.O. Box E, Alton, IL 62802 618-242-8725 E-mail: ms@smsengineers.com
 DESIGN FIRM # 184-000992

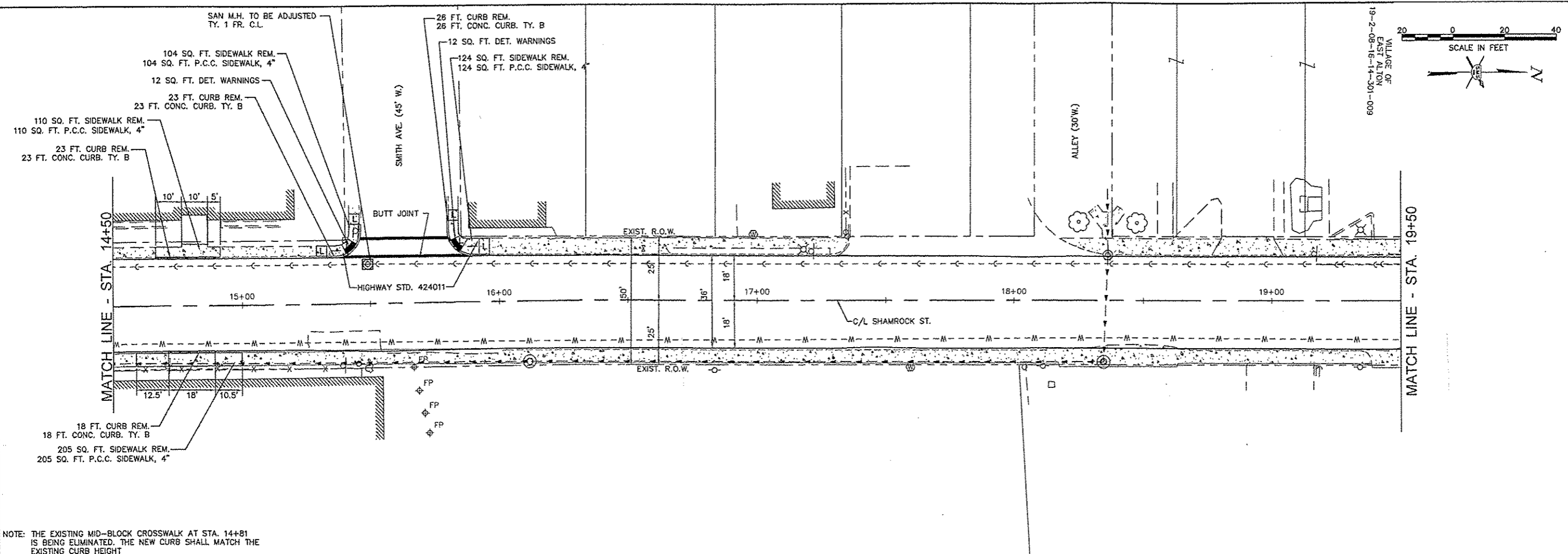
VILLAGE OF EAST ALTON, ILLINOIS
 SECTION 12-00048-00-RS
 SHAMROCK STREET
 PLAN AND PROFILE

CONTRACT NO. 97616
 EA SHAMROCK BASE.DWG

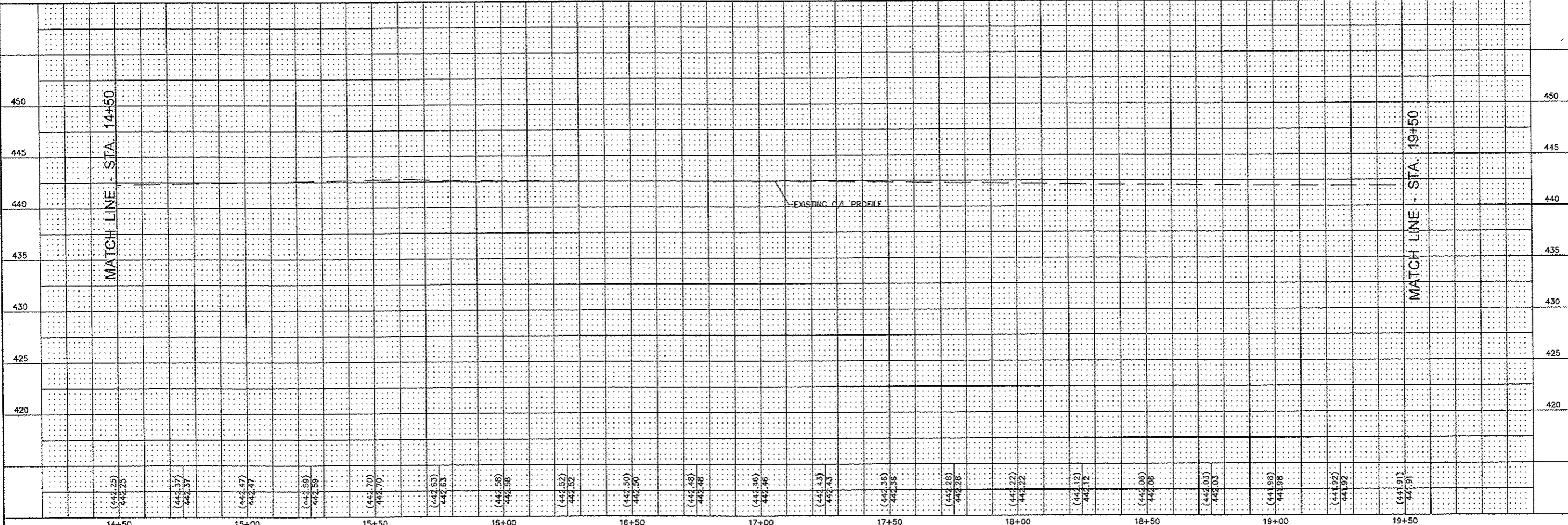
REF. BR. PG.
 JOB NO. 228653.1
 DSN. BY: DEG
 DWN. BY: CDP
 CHK. BY: DEG
 DATE: OCTOBER, 2015

SCALE: HORZ: 1"=20'
 VERT: 1"=5'

SHEET 5 OF 17



NOTE: THE EXISTING MID-BLOCK CROSSWALK AT STA. 14+81 IS BEING ELIMINATED. THE NEW CURB SHALL MATCH THE EXISTING CURB HEIGHT

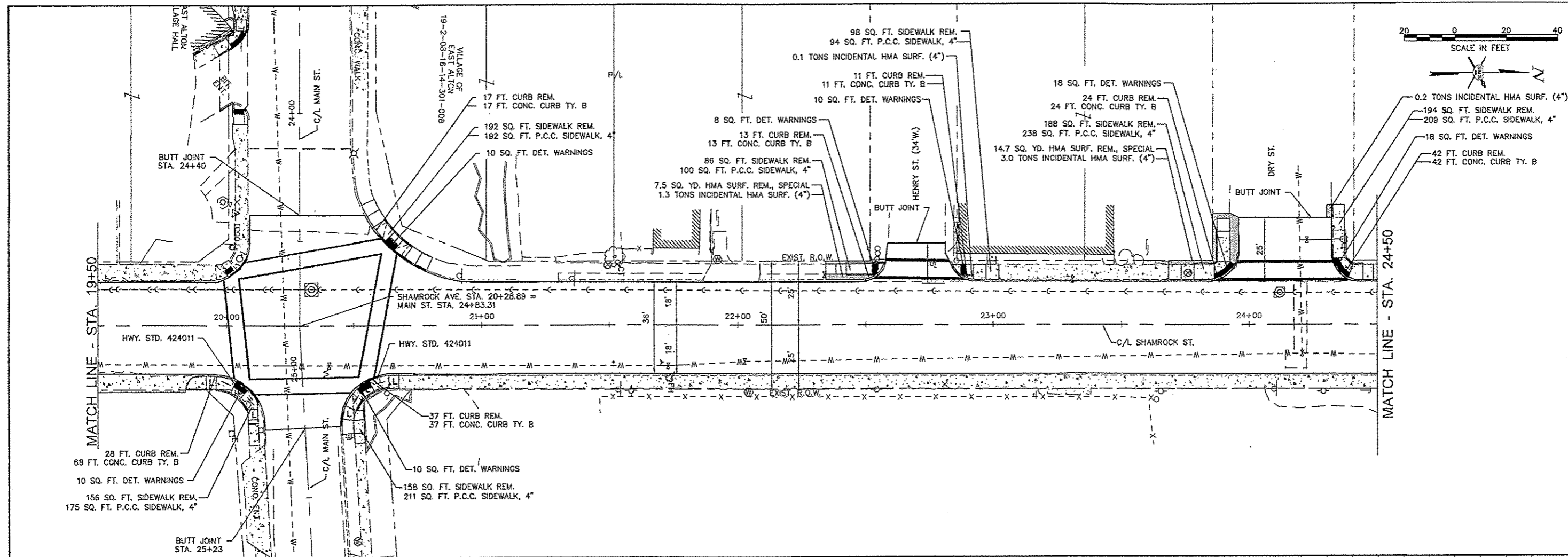


NO.	DESCRIPTION

SMS ENGINEERS
 Sheppard, Morgan & Schwaab, Inc.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 216 Market Street, S.O. East, Alton, IL 62002 618/262-0753 E-mail: ms@smsengineers.com
 DESIGN FIRM # 184-000992

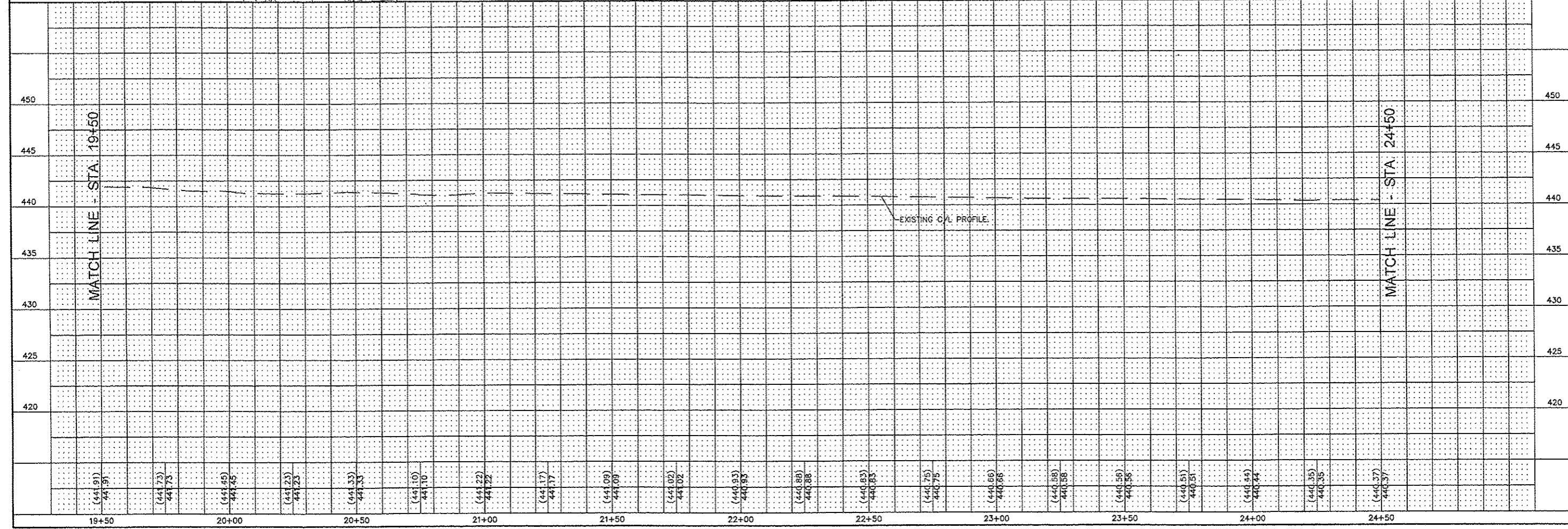
VILLAGE OF EAST ALTON, ILLINOIS
 SECTION 12-00048-00-RS
 SHAMROCK STREET
 PLAN AND PROFILE

CONTRACT NO.	97616
EA SHAMROCK BASE.DWG	
REF. BK.	PG.
JOB NO.	22853.1
DSN. BY:	DEG
DWN. BY:	CDP
CHK. BY:	DEG
DATE:	OCTOBER, 2015
SCALE:	HORZ: 1"=20' VERT: 1"=5'
SHEET	7 OF 17



REVISIONS

SMS ENGINEERS
Sheppard, Morgan & Schwaab, Inc.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 213 Market Street, P.O. Box E, Alton, IL 62002 618-282-2755 E-mail: ms@smsengineers.com
 DESIGN FIRM # 184-000992



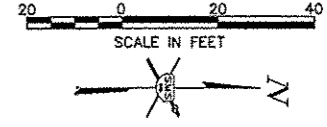
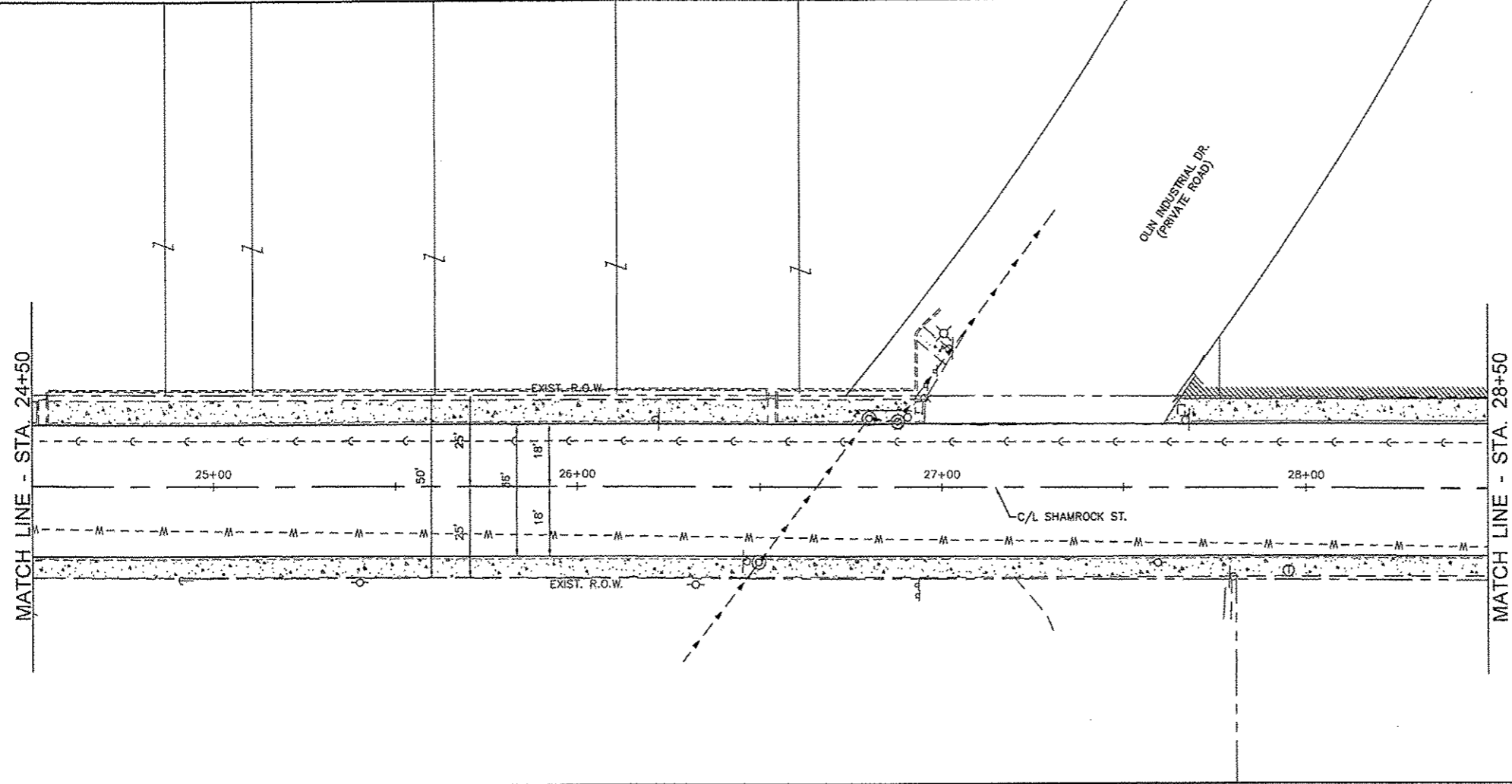
VILLAGE OF EAST ALTON, ILLINOIS
 SECTION 12-00048-00-RS
 SHAMROCK STREET
 PLAN AND PROFILE

CONTRACT NO. 97616
 EA SHAMROCK BASE.DWG

REF. BK. PG.
 JOB NO. 228653.1
 DSN. BY: DEG
 DWN. BY: DEG
 CHK. BY: DEG
 DATE: OCTOBER, 2015

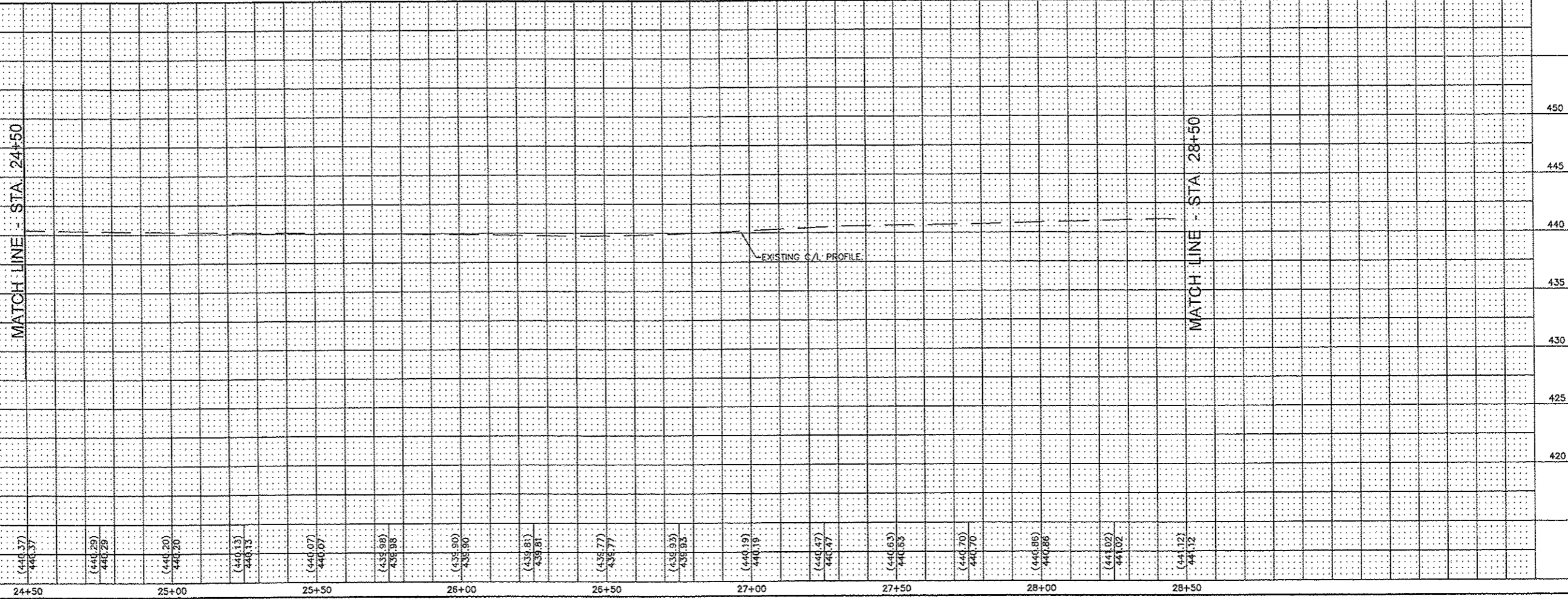
SCALE: HORZ: 1"=20'
 VERT: 1"=5'

SHEET 8 OF 17



REVISIONS

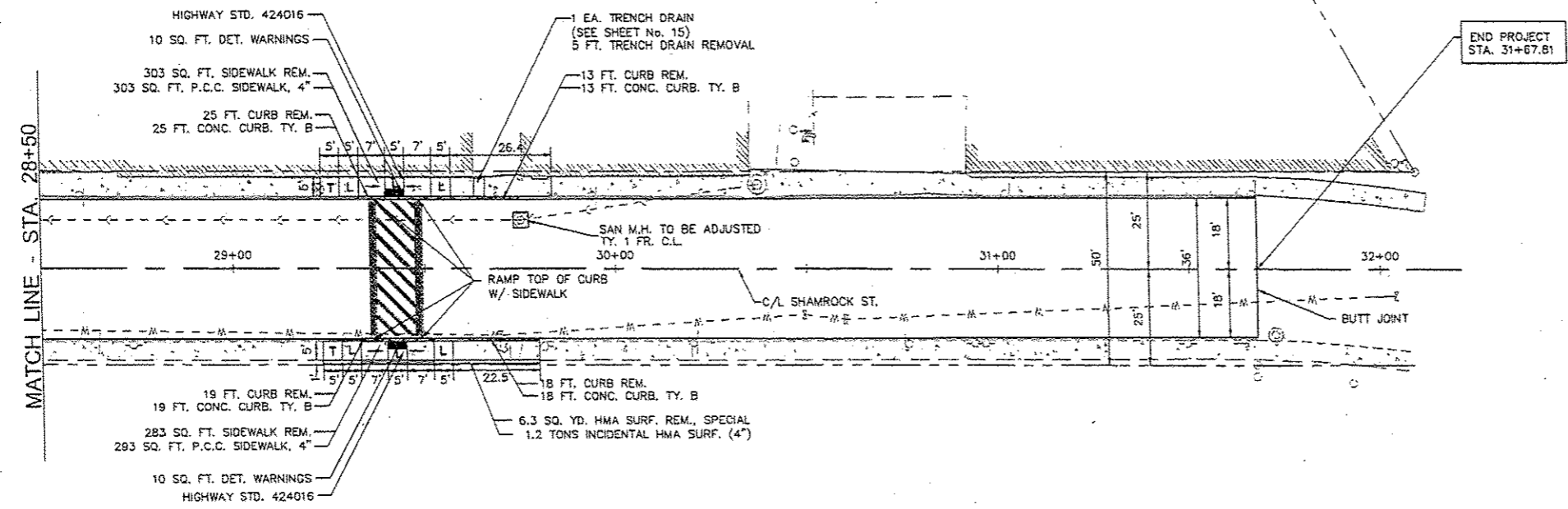
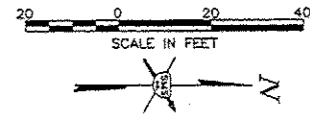
SMS ENGINEERS
 Sheppard, Morgan & Schwaab, Inc.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 215 Market Street, P.O. Box E, Alton, IL 62002 618/662-9755 E-mail: mail@smsengineers.com
 DESIGN FIRM # 184-000992



VILLAGE OF EAST ALTON, ILLINOIS
 SECTION 12-00048-00-RS
 SHAMROCK STREET
 PLAN AND PROFILE

CONTRACT NO. 97616
 EA SHAMROCK BASE.DWG
 REF. BK. PG.
 JOB NO. 228653.1
 DSN. BY: DEG
 DWN. BY: DEG
 CHK. BY: DEG
 DATE: OCTOBER, 2015
 SCALE: HORZ: 1"=20'
 VERT: 1"=5'
 SHEET 9 OF 17

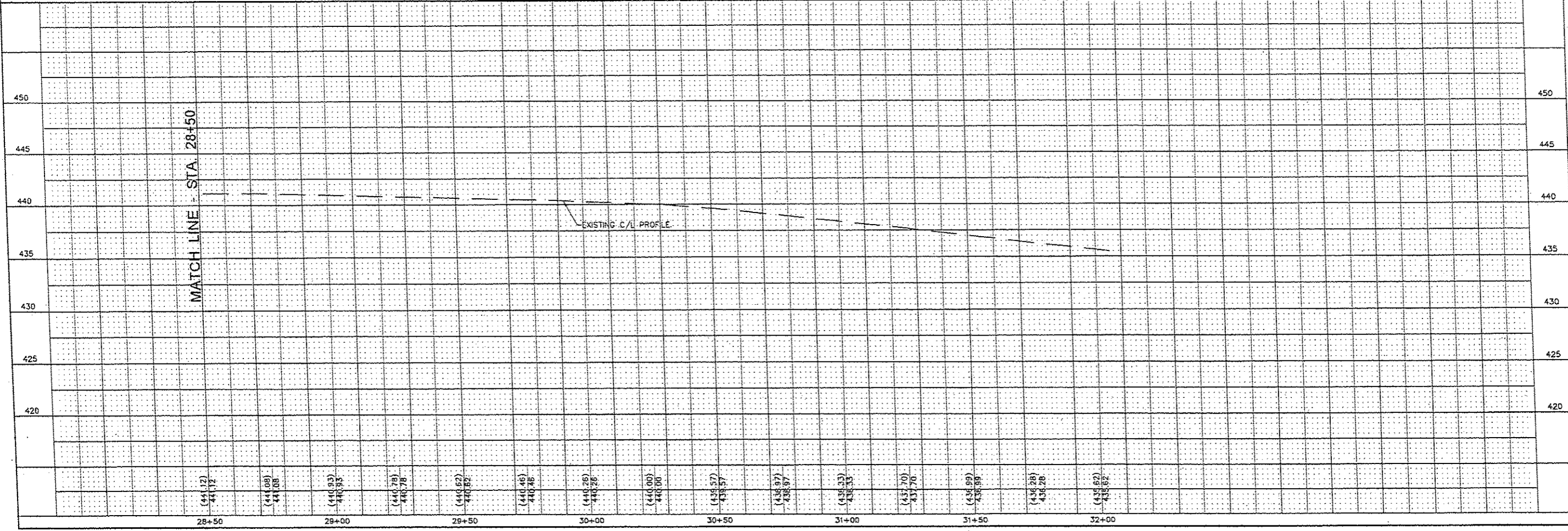
24+50 25+00 25+50 26+00 26+50 27+00 27+50 28+00 28+50



END PROJECT
STA. 31+67.81

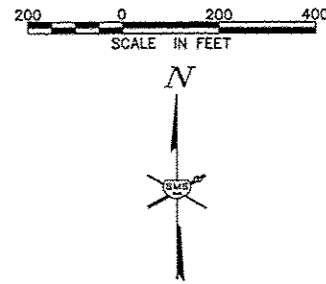
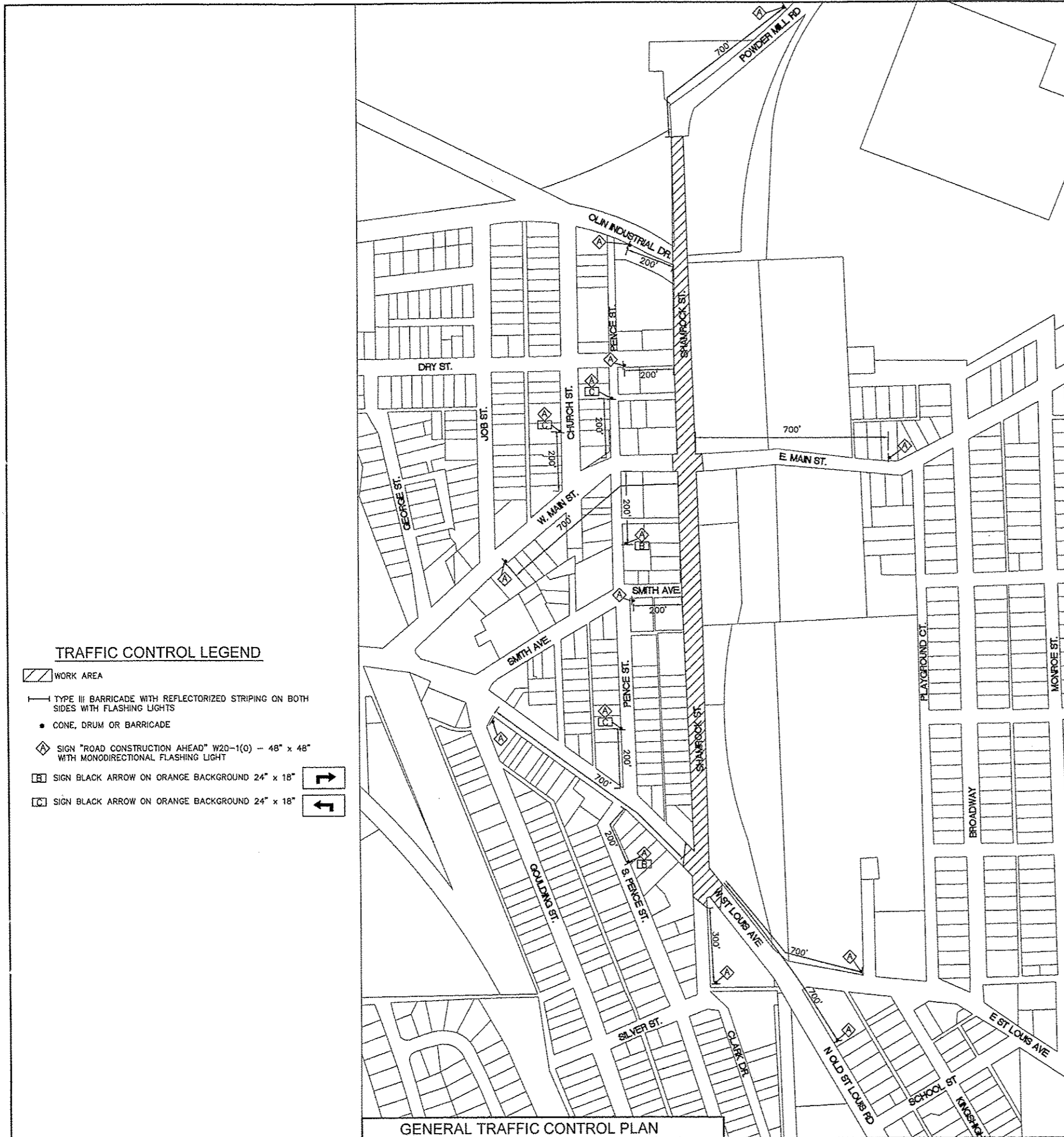
REVISIONS

SMS ENGINEERS
 Sheppard, Morgan & Schwaab, Inc.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 115 Market Street, P.O. Box 5, Alton, IL 62902 618/622-9155 E-mail: smse@smsengineers.com
 DESIGN FIRM # 184-000992



VILLAGE OF EAST ALTON, ILLINOIS
 SECTION 12-00048-00-RS
 SHAMROCK STREET
 PLAN AND PROFILE

CONTRACT NO.	97616
EA SHAMROCK BASE.DWG	
REF. BK	PG
JOB NO.	228653.1
DSN. BY:	DEG
OWN. BY:	CDP
CHK. BY:	DEG
DATE:	OCTOBER 2015
SCALE:	HORZ: 1"=20' VERT: 1"=5'
SHEET	10 OF 17



TRAFFIC CONTROL NOTES

1. THE CONTRACTOR SHALL PROVIDE THE TRAFFIC CONTROL SHOWN ON THE GENERAL TRAFFIC CONTROL PLAN AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT. ADDITIONAL TRAFFIC CONTROL SHALL BE PROVIDED AS SPECIFIED BELOW AND IN ACCORDANCE WITH THE SPECIFIED HIGHWAY STANDARDS.
2. AT TIMES WHEN ALL TRAFFIC LANES ARE OPEN, PROVIDE TRAFFIC CONTROL AS NEEDED PER HIGHWAY STANDARD 701006 AND 701011.
3. ONE TRAFFIC LANE ON SHAMROCK STREET WILL BE ALLOWED TO BE CLOSED AS NEEDED DURING DAY TIME HOURS AS DESCRIBED BELOW:
 - A. FOR SPOT LOCATIONS THAT ARE LESS THAN 1 BLOCK LONG AND FOR 1 HOUR OR LESS, PROVIDE TRAFFIC CONTROL PER HIGHWAY STANDARD 701301.
 - B. FOR SPOT LOCATIONS THAT ARE LESS THAN 1 BLOCK LONG AND MORE THAN 1 HOUR, PROVIDE TRAFFIC CONTROL PER HIGHWAY STANDARD 701501.
 - C. THE EAST ALTON STREET DEPT. WILL POST TEMPORARY "NO PARKING" SIGNS AS NEEDED TO PREVENT PARKING IN WORK AREAS. THE CONTRACTOR SHALL NOTIFY THE STREET DEPT. AND ENGINEER AT LEAST 2 DAYS IN ADVANCE OF THE NEED FOR "NO PARKING" SIGNS.
 - D. DURING PAVEMENT PATCHING OPERATIONS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL CONES, DRUMS OR BARRICADES TO PROTECT EACH PATCH AS DIRECTED BY THE ENGINEER.
4. SIDE STREETS AND ALLEYS SHALL REMAIN OPEN TO TRAFFIC AT ALL TIMES, WITH TRAFFIC CONTROL PROVIDED IN ACCORDANCE WITH THE SPECIFIED HIGHWAY STANDARDS.
5. FOR SIDEWALK REMOVAL AND REPLACEMENT, TRAFFIC CONTROL FOR SIDEWALK CLOSURES SHALL BE PROVIDED PER HIGHWAY STANDARD 701801. SIDEWALK REMOVAL AND REPLACEMENT SHALL BE SEQUENCED AS NEEDED TO ALWAYS ALLOW AN ACCESSIBLE ROUTE TO PRIVATE PROPERTY AND BUSINESSES.
6. WHERE A HIGHWAY STANDARD REQUIRES A "ROAD CONSTRUCTION AHEAD" SIGN, THIS REQUIREMENT WILL BE CONSIDERED FULFILLED BY THE SIGNS REQUIRED ON THE GENERAL TRAFFIC CONTROL PLAN.
7. ALL HAZARDS WITHIN WORK ZONES OPEN TO TRAFFIC SHALL BE PROTECTED WITH TYPE I BARRICADES OR DRUMS WITH FLASHING LIGHTS IF LESS THAN 100' IN LENGTH. IF GREATER THAN 100' IN LENGTH, LIGHTS SHALL BE STEADY BURN.
8. ALL CONSTRUCTION SIGNS SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS".
9. IF THE CONTRACTOR WISHES TO DEVIATE FROM THIS TRAFFIC CONTROL PLAN, HE SHALL PROVIDE A REVISED TRAFFIC CONTROL PLAN IN WRITING FOR THE REVIEW AND APPROVAL OF THE ENGINEER.
10. FOR PAVEMENT PATCHING, THE CONTRACTOR SHALL HAVE THE OPTION OF USING SMITH AVE. FOR A DETOUR ROUTE. DETOUR SIGNING AND DURATION SHALL BE APPROVED BY THE ENGINEER AND THE VILLAGE OF EAST ALTON PRIOR TO DETOURING TRAFFIC FROM SHAMROCK ST. TRAFFIC CONTROL FOR ANY DETOURING SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL, SPECIAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
11. THE EAST ALTON FIRE AND POLICE DEPARTMENTS ARE LOCATED AT 209 AND 211 N. SHAMROCK ST., RESPECTIVELY. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENTS AND COORDINATE ANY CONSTRUCTION ACTIVITIES THAT MAY AFFECT THEIR EMERGENCY RESPONSE EFFORTS, ESPECIALLY DURING MILLING AND PAVING OPERATIONS, SO THAT SPECIAL ACCOMMODATIONS CAN BE TAKEN, IF NECESSARY. THE DEPARTMENTS CAN BE CONTACTED AT (618) 259-2984 (FIRE) AND (618) 259-6212 (POLICE).

TRAFFIC CONTROL LEGEND

- WORK AREA
- TYPE III BARRICADE WITH REFLECTORIZED STRIPING ON BOTH SIDES WITH FLASHING LIGHTS
- CONE, DRUM OR BARRICADE
- SIGN "ROAD CONSTRUCTION AHEAD" W20-1(0) - 48" x 48" WITH MONODIRECTIONAL FLASHING LIGHT
- SIGN BLACK ARROW ON ORANGE BACKGROUND 24" x 18"
- SIGN BLACK ARROW ON ORANGE BACKGROUND 24" x 18"

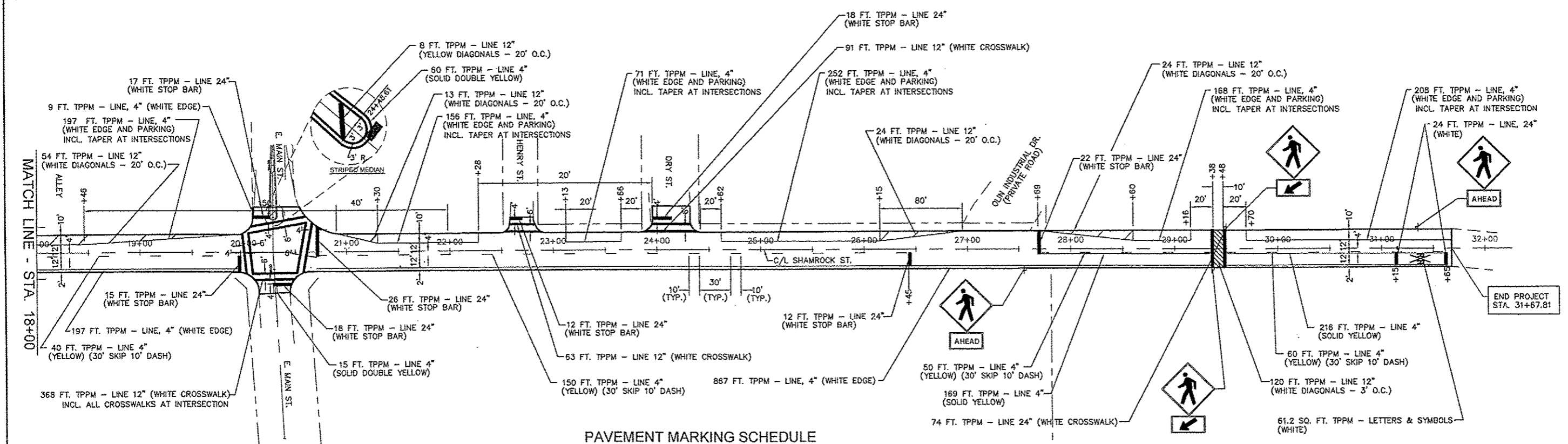
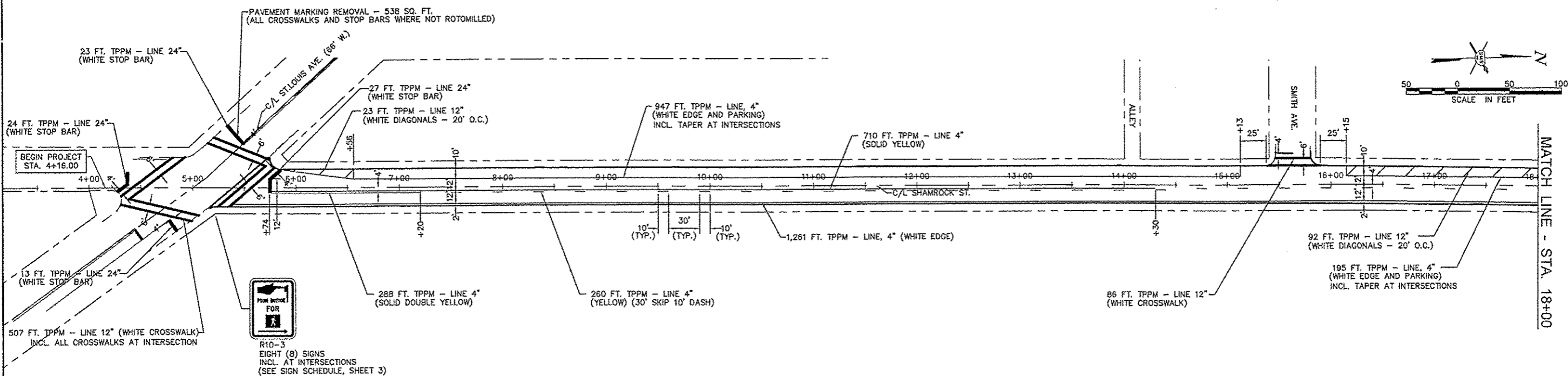
GENERAL TRAFFIC CONTROL PLAN

REVISIONS

SMS ENGINEERS
 Sheppard, Morgan & Schwaab, Inc.
 CONSULTING ENGINEERS AND LAND SURVEYORS
216 West Street, P.O. Box E, Alton, IL 62002 618-259-2984 E-mail: mail@smsengineers.com
DESIGN FIRM # 184-000992

VILLAGE OF EAST ALTON, ILLINOIS
 SECTION 12-00048-00-RS
 SHAMROCK STREET
 TRAFFIC CONTROL PLAN

CONTRACT NO.	97616
EA SHAMROCK TRAF.DWG	
REF. BK.	PG.
JOB NO.	228653.1
DSN. BY:	DEG
DNW. BY:	CDP
CHK. BY:	DEG
DATE:	OCTOBER, 2015
SCALE:	1"=200'
SHEET	11 OF 17



PAVEMENT MARKING SCHEDULE

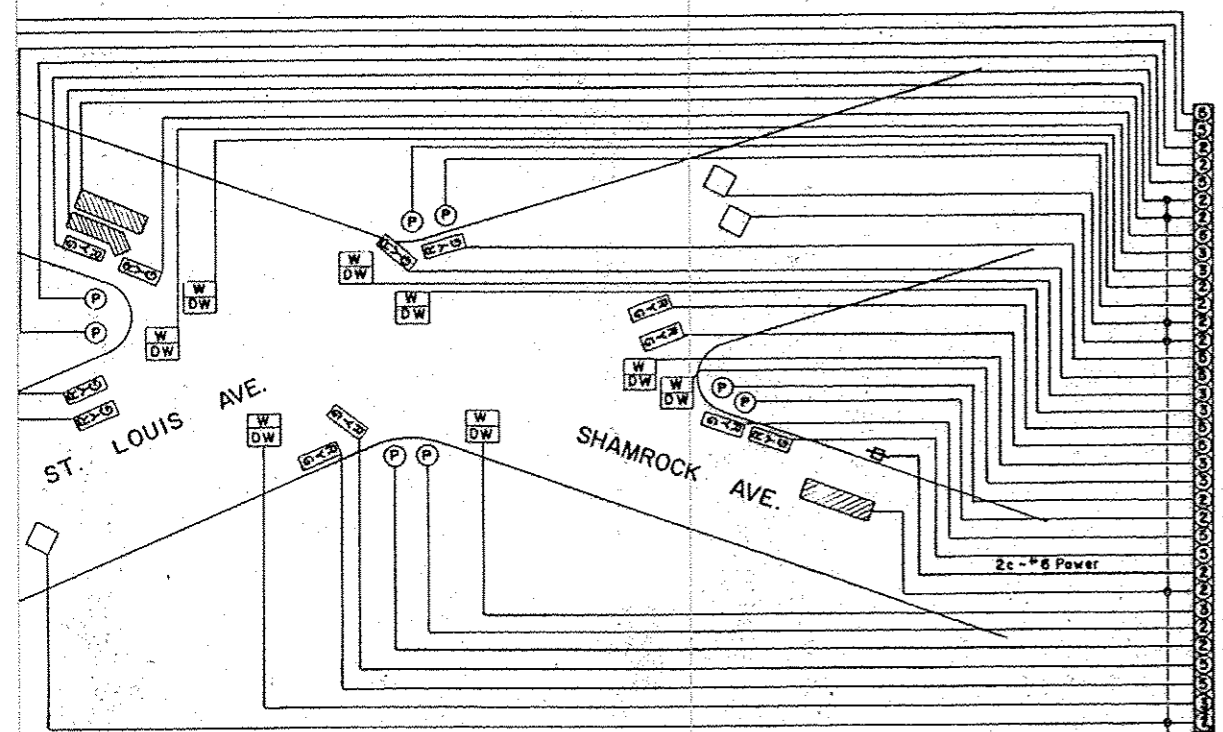
ITEM	QUANTITY	UNIT
THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE)	4,412	FOOT
THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW)	2,018	FOOT
TOTAL 4"	6,430	FOOT
THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW)	8	FOOT
THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE)	1,465	FOOT
TOTAL 12"	1,473	FOOT
THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE)	352	FOOT
TOTAL 24"	352	FOOT
THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE)	265	FOOT
TOTAL 24"	265	FOOT

REVISIONS

SMS ENGINEERS
 Sheppard, Morgan & Schwaab, Inc.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 215 Market Street, P.O. Box E, Alton, IL 62002 618/462-9755 E-mail: smse@smsengineers.com
 DESIGN FIRM # 184-000992

VILLAGE OF EAST ALTON, ILLINOIS
 SECTION 12-00048-00-RS
 SHAMROCK STREET
 PAVEMENT MARKING & SIGNING PLAN

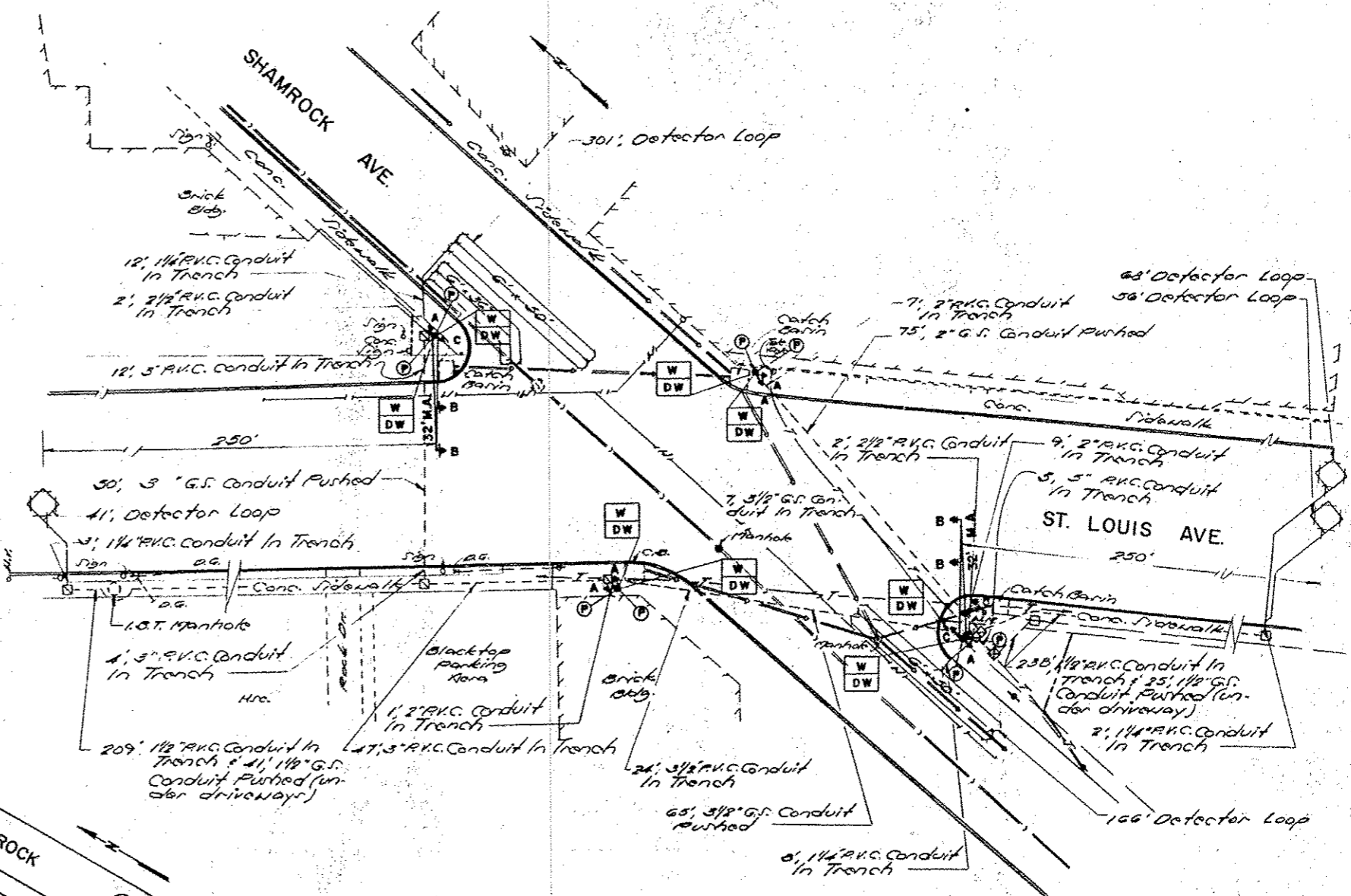
CONTRACT NO. 97616
 EA SHAMROCK PAVE MARK.DWG
 REF. BK. PG.
 JOB NO. 228653.1
 DSN. BY: DEG
 DWN. BY: CDG
 CHK. BY: DEG
 DATE: OCTOBER, 2015
 SCALE: 1"=50'
 SHEET 12 OF 17



NOTE: DETECTOR LOOPS WITH CALL DELAY SHOWN THUS.....

SCHEMATIC-CABLE PLAN

NO SCALE



PLAN

SCALE: 1" = 20'

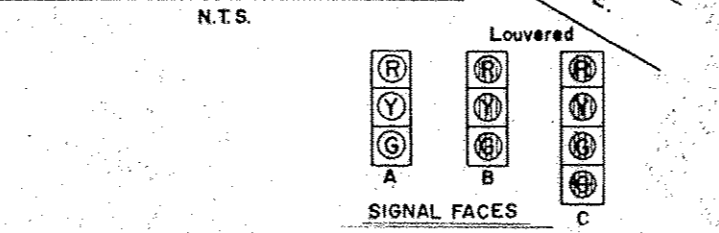
CONTROLLER SPECIAL SEQUENCE, 4 PHASES

PHASE Ø	PROPOSED OPERATION							
	1	2	3	4	5	6	7	8
MOVEMENT		↔	↕	↕		↔		
CONCURRENT MOVEMENT PERMITTED	NOT USED	6	NONE	NONE	NOT USED	2	NOT USED	NOT USED

NOTES

- Vehicular and pedestrian phases used will be designated in the Phase Designation Diagram.
- Termination of all phases shall be with a circular yellow.
- In flashing mode, St. Louis Ave. signal faces shall flash yellow, Shamrock Ave. signal faces shall flash red and all pedestrian signal faces shall be dark.

PHASE DESIGNATION DIAGRAM



All Heads Are 12" Lens w/Vitons

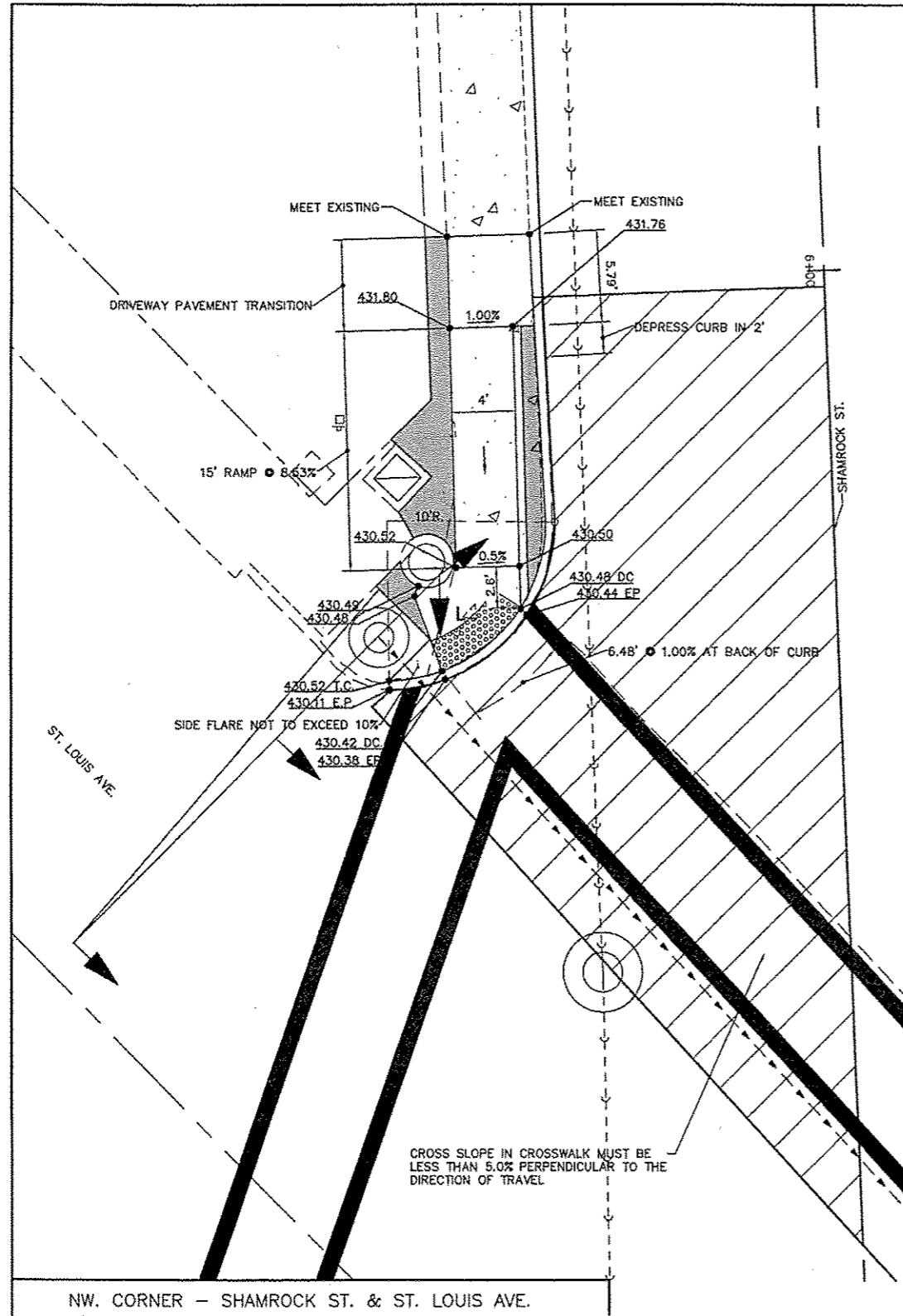
NOTE:

- ALL PRESENCE LOOPS SHALL BE QUADRUPOLE LOOP WITH CALL DELAY.
- SIGNAL HEADS SHALL HAVE ALL 12" SECTIONS. MOUNTING HARDWARE SHALL BE UNPAINTED ALUMINUM.
- BACKPLATES SHALL BE ABS PLASTIC.
- SIGNAL POSTS AND BASES AND TYPE IV CONTROLLER CABINET SHALL BE UNPAINTED ALUMINUM.
- THE LOCATIONS OF MAST ARM SUPPORTS SHALL BE APPROVED BY THE ENGINEER BEFORE THE FOUNDATIONS ARE CONSTRUCTED.
- THE LOCATIONS OF ALL DETECTOR LOOPS SHALL BE APPROVED BY THE ENGINEER BEFORE ANY SLOTS ARE SAWED IN THE PAVEMENT.
- ALL TRAFFIC SIGNAL CABLE SHALL BE #14 AWG, STRANDED COPPER UNLESS OTHERWISE INDICATED. TERMINAL ENDS SHALL HAVE CRIMPED-ON FULL TONGUE CONNECTORS.
- PIER DEPTHS FOR THE MAST ARM SUPPORT FOUNDATIONS SHALL BE 110"
- ALL UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY ATTEMPT TO CONSTRUCT ANY COMPONENT OF THIS TRAFFIC SIGNAL SYSTEM.
- CONTRACTOR SHALL INSTALL DETECTOR LOOPS PRIOR TO PROPOSED BITUMINOUS OVERLAYS.
- SEE SHEET NO. 14 FOR LIMITS OF SURFACE TO BE REMOVED AND REPLACED.

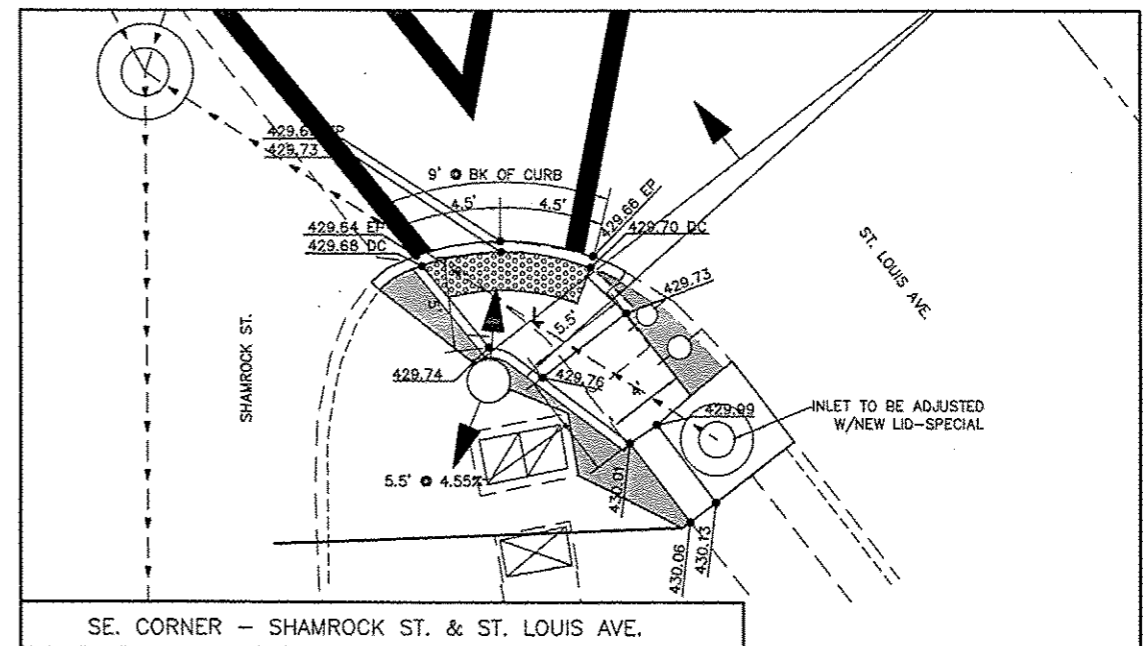
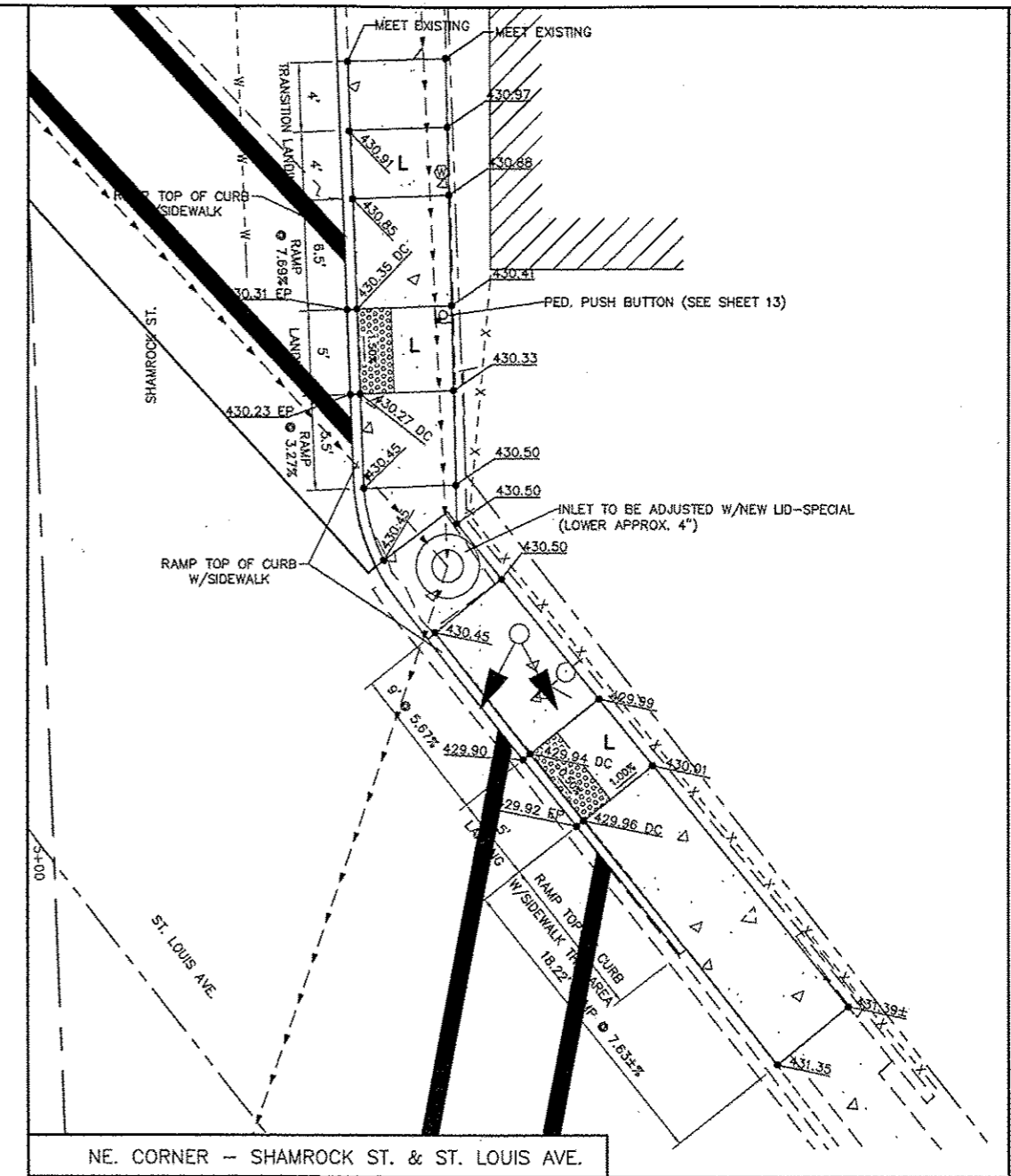
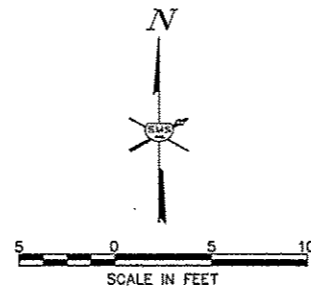
LEGEND

- CONTROLLER ... ☒
- SERVICE INSTALLATION ... ☐
- MAST ARM ASSEMBLY & POLE ... ⚡
- SIGNAL HEAD ... ⬆
- HANDHOLE ... ☑
- CONDUIT ... ---
- DETECTOR LOOP & LEAD IN ... ---
- PEDESTRIAN PUSH BUTTON ... (P)
- PEDESTRIAN HEAD ... (W/DW)
- FIRE HYDRANT ... ⚡
- POWER POLE ... ⚡
- WATER LINE ... ---
- STORM SEWER ... ---
- SANITARY SEWER ... ---

REVISIONS
SMS
 Sheppard, Morgan & Schwab, Inc.
 215 Market Street - Alton, Illinois 62002
 618/462-9756
 EAST ALTON, ILLINOIS
SECTION 87-00032-02-RS
 TRAFFIC SIGNAL PLAN
 ST. LOUIS AVENUE / SHAMROCK AVE.
 FOR INFORMATION ONLY
 CONTRACT NO. 97616
 DWG. NO. 12729
 JOB NO. 12729
 DSN BY: JH/CG
 OWN BY: JH/CG
 CHK BY: JH/CG
 DATE: 11/89
 SCALE: As Shown
 SHEET 15 OF 28
 SHEET 14 OF 17



SHOWS AREA OF PAVEMENT PATCH REQUIRED FOR GRADE CHANGES FOR NEW CURB RAMP

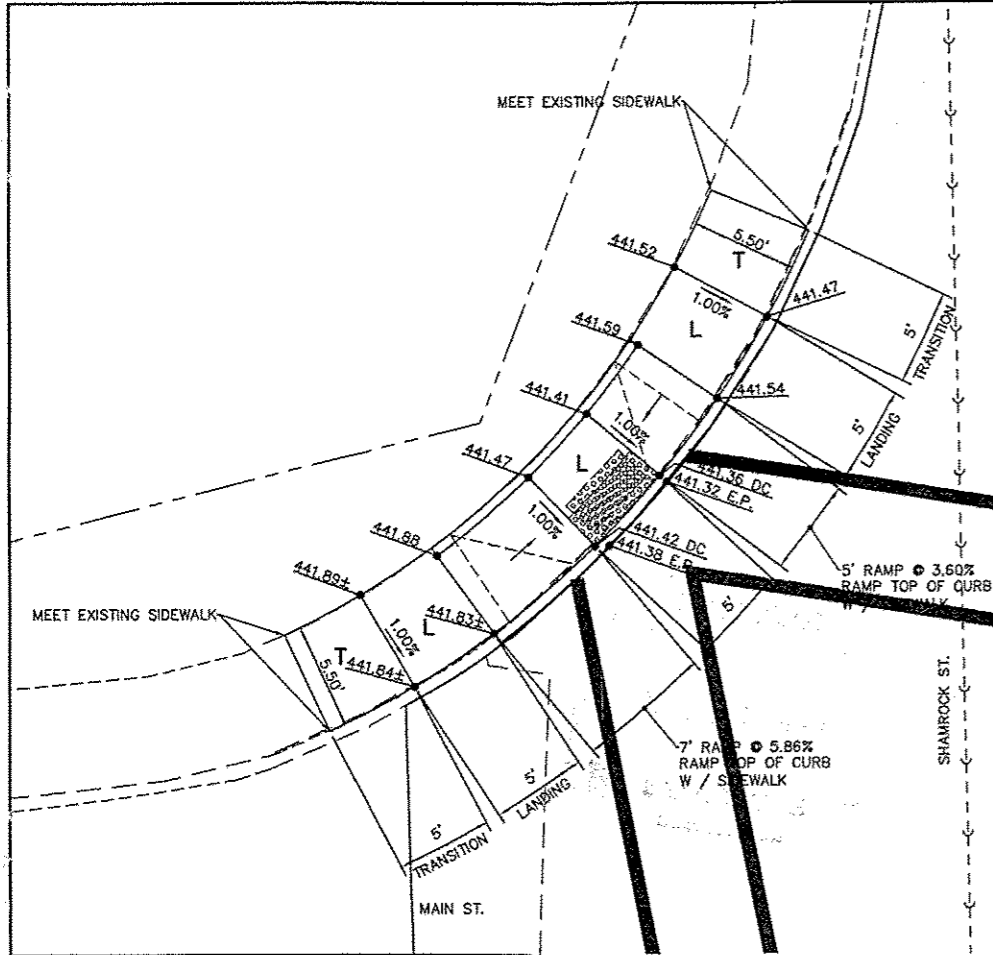


REVISIONS

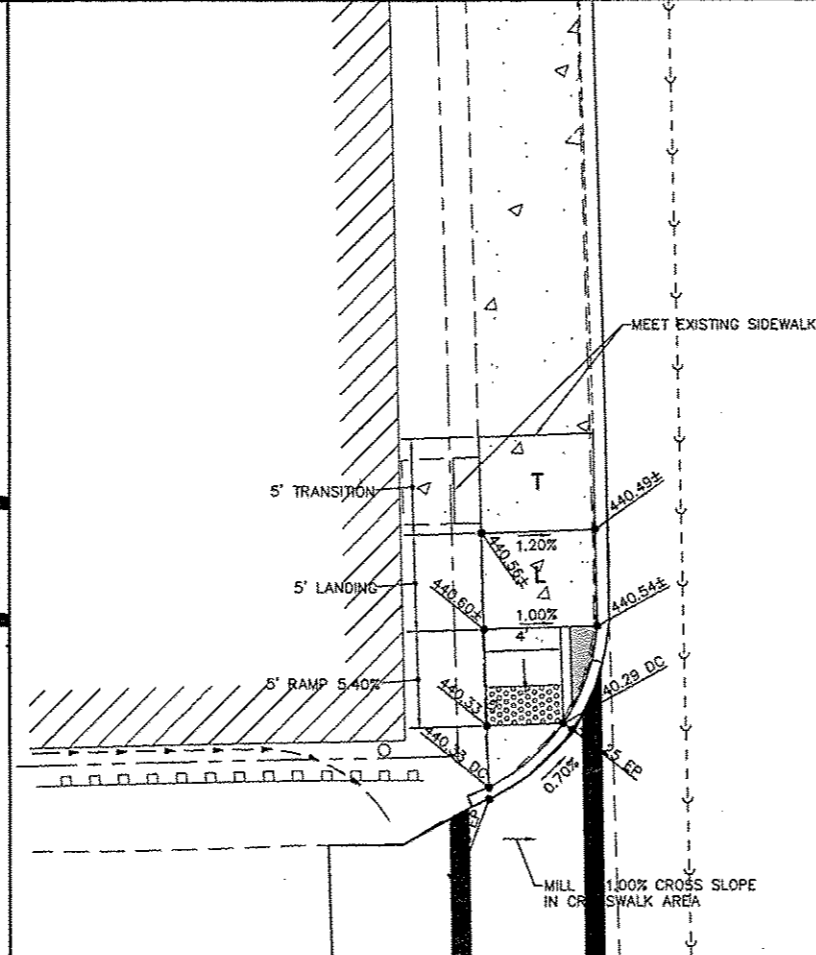
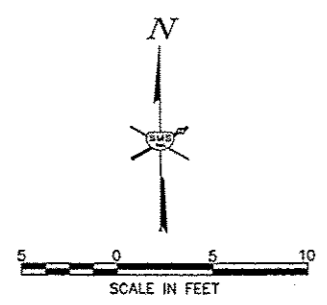
SMS Sheppard, Morgan & Schwaab, Inc.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 215 Market Street, P.O. Box E, Alton, IL 62002 618/462-6755 E-mail: mail@smsmpe.com
ENGINEERS DESIGN FIRM # 184-000892

VILLAGE OF EAST ALTON, ILLINOIS
 SECTION 12-00048-00-RS
 SHAMROCK STREET
 CONSTRUCTION DETAILS

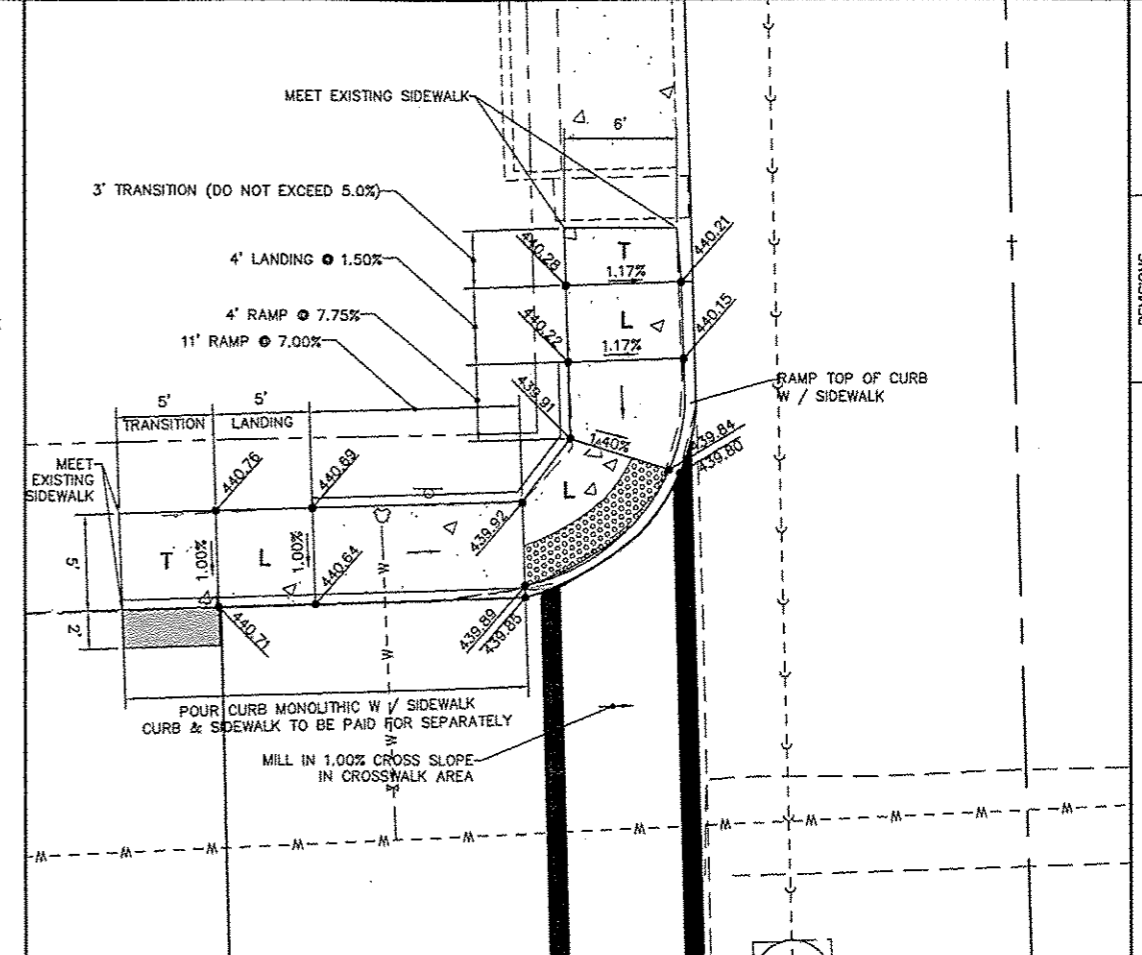
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REF. BK.	PG.
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DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: OCTOBER, 2015	
SCALE: 1"=5'	
SHEET 16 OF 17	



NW. CORNER - SHAMROCK ST. & MAIN ST.



SHAMROCK ST. & HENRY ST.



SHAMROCK ST. & DRY ST.

NO.	DESCRIPTION

SMS Sheppard, Morgan & Schwaab, Inc.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 215 Market Street, P.O. Box E, Alton, IL 62002 618462-9755 Email: mail@smssheppard.com
ENGINEERS DESIGN FIRM # 184-000992

VILLAGE OF EAST ALTON, ILLINOIS
 SECTION 12-00048-00-RS
 SHAMROCK STREET
 CONSTRUCTION DETAILS

CONTRACT NO. 97616	
EA SHAMROCK DETAILS2.DWG	
REF. BK.	PG.
JOB NO. 228653.1	
DSN. BY: DEG	
DWN. BY: CDP	
CHK. BY: DEG	
DATE: OCTOBER, 2015	
SCALE: 1"=5'	
SHEET 17 OF 17	