COUNTY

COVER SHEET

ILLINOIS

340 06-00048-00-RS COOK

WOODFORD

CLINTON

LOCATION OF SECTION INDICATED THUS:

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

MC LEAN

ROCK ISLAND

MERCER

CASS

TOTAL SHEETS

36

KANKAKEE

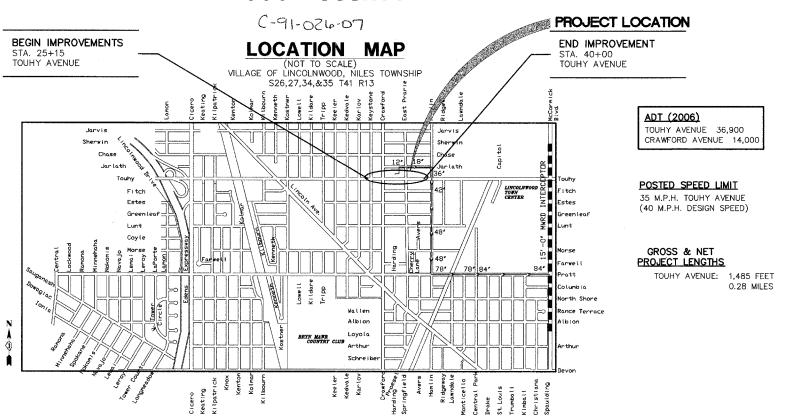
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FEDERAL

SHEET NO. INDEX OF SHEETS TITLE SHEET GENERAL NOTES SUMMARY OF QUANTITIES TYPICAL CROSS SECTIONS TRAFFIC CONTROL PLAN EXISTING CONDITIONS / DEMOLITION PLAN IMPROVEMENTS PLAN STA. 20+15 TO STA. 30+50 IMPROVEMENTS PLAN STA. 30+50 TO STA. 36+00 IMPROVEMENTS PLAN STA. 36+00 TO STA. 40+00 PAVEMENT MARKING PLAN 12 13-17 DETAILS 18-25 LIGHTING PLAN AND DETAILS 26-33 LANDSCAPE PLAN AND DETAILS 34-36 IRRIGATION PLAN AND DETAILS

> THIS PROJECT IS LOCATED IN HE VILLAGE OF LINCOLNWOOD

STATE OF ILLINOIS DEPARTMENT OF TRANSPORATION **DIVISION OF HIGHWAYS** PLANS FOR PROPOSED FEDERAL AID HIGHWAY FAU# 1340 TOUHY AVE. KEYSTONE AVE. TO EAST PRAIRIE AVE. SECTION# 06 - 00048 - 00 -RS **PROJECT* TE-00D1(702)** RESURFACING, LANDSCAPING & SCENIC BEAUTIFICATION **COOK COUNTY**

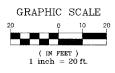


SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR



CONTRACT NO. <u>83902</u>

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BENCHMARK INFORMATION:

VILLAGE OF LINCOLNWOOD BENCHMARK AT NORTH END CONCRETE BASE OF LIGHT POLE AT SOUTHEAST CORNER OF KARLOV & TOUHY ELEVATION: 605,530

VILLAGE OF LINCOLNWOOD BENCHMARK AT UPPER NORTHWEST FLANGE BOLT ON HYDRANT AT NORTHWEST CORNER OF CRAWFORD & TOUHY ELEVATION: 604.655

VILLAGE OF LINCOLNWOOD BENCHMARK AT EAST END CONCRETE BASE OF LIGHT POLE AT NORTHEAST CORNER OF SHERWIN & EAST PRAIRIE FLEVATION: 603 202

VILLAGE OF LINCOLNWOOD BENCHMARK AT NORTHWEST FLANGE BOLT ON HYDRANT AT NORTHWEST CORNER OF EAST PRAIRIE & ESTES

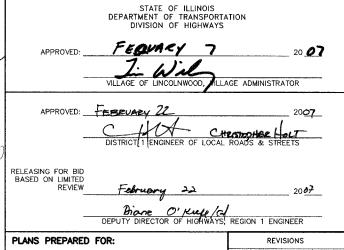
Consulting Engineers & Surveyors 850 Forest Edge Drive Vernon Hills, IL 60061 847-478-9700 FAX: 847-478-9701 SIGNATURE NAME: STEVEN D. BERECZ, P.E. LICENSE EXPIRES: 11/30/2007 **ELECTRICAL ENGINEERING PLANS BY:** SHEETS 18 THRU 25 KJWW Engineering Consultants 062-053154 1771 West Diehl Road, Suite 300 Nanerville II 60563 630-527-2320 SIGNATURE: NAME: JEFFREY C. PRATT LICENSE EXPIRES: NOVEMBER 30, 2007 LANDSCAPE ARCHITECTURE PLANS BY: SHEETS 26 THRU 36 Land Design Collaborative, Inc James C. Gamble 5142 Main Street Skokie, Illinois 60077 847-329-9777 SIGNATURE: SIGNATURE: JAMES C. GAMBLE LANDSCAPE ARCHITECT ILLINOIS LICENSE NO. 157-000002 NAME:

SHEETS 1 THRU 17

ROADWAY PLANS PREPARED BY:

GEWALT HAMILTON

LICENSE EXPIRES: 6/3//07



VILLAGE OF LINCOLNWOOD 6900 LINCOLN AVENUE LINCOLNWOOD, ILLINOIS 60712 PHONE: (847) 745-4717 APPROVED: TIMOTHY C. WIBEI

SIGNATURE:

LD.O.T. GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES (48 HOUR NOTIFICATION IS REQUIRED).

10 FEET (3 METER) TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN IED FOR FORK TO EXISTING CURBS & GUTTERS AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF LINCOLNWOOD.

E CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD FICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE PARTMENT.

BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SANDBAGS ON EACH TYPE ! OR TYPE II BARRICADE USED-ONE (1) WEIGHTED SANDBAG ACROSS EACH BOTTOM RAIL.

ALL STORM SEWER CONNECTIONS WITH PIPES 27 INCHES (675 MM)
DIAMETER AND SMALLER SHALL BE MADE WITH PRECAST "TEE" OR "WYE"
PIPES. FOR PROPOSED STORM SEWER PIPES LARGER THAN 27 INCHES (675 MM) DIAMETER, OPENINGS OF THE SPECIFIED DIAMETER SHALL BE MADE IN THE PIPE AT THE TIME IT IS MANUFACTURED. PRECAST "TEE" AND "WYC" PIPE CONNECTIONS FOR PROPOSED STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST FOR THE STORM SEWERS.

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 ½ INCHES (40 MM WHERE THE SPEED LIMIT IS 45 MPH (80 KM/H) OR LESS AND 1 INCH (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (80 KM/H). WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

TYPE II BARRICADES WHEN USED FOR APPROACH TAPERS, AS INDICATED ON THE STATE STANDARDS OR SHOWN ON THE PLANS SHALL BE SAFETYCADE DIRECTION INDICATOR BARRICADES MANUFACTURED BY WLI INDUSTRIES, INC. 880 N. ADDISON, P.O. BOX 7050, VILLA PARK, IL. 60181-7050 OR EQUIVALENT. THE CONTRACTORS BID PRICES FOR TRAFFIC CONTROL ITEMS SHALL INCLUDE THE COST OF THESE BARRICADES.

THE CONTRACTOR SHALL CONTACT THE IDOT TRAFFIC FIELD ENGINEER (WALTER CZARNY AT 773-685-8386) A MINIMUM OF TWO WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS. ALL TYPICAL PAVEMENT MARKINGS SHALL CONFORM TO IDOT DISTRICT ONE STANDARDS.

HIGHWAY STANDARD LIST

CURB RAMPS FOR SIDEWALK CLASS C & D PATCHING 442201-02 CATCH BASIN TYPE A 602301-01 INLET - TYPE A FRAME AND LIDS TYPE 1
FRAME AND GRATE TYPE 23
CONCRETE CURB, TYPE B AND COMBINATION CONCRETE CURB AND GUTTER 604001-02 701601-04 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W, WITH NON TRAVERSABLE MEDIAN. FOR SPEEDS < 45 MPH

PCC PAVEMENT JOINTS

MEDIAN, FOR SPEEDS < 45 MPH
URBAN LANE CLOSURE, MULTILANE, 2W, WITH BI-DIRECTION LEFT TURN LANE
URBAN LANE CLOSURE, MULTILANE, 2W, WITH MOUNTABLE MEDIAN
URBAN LANE CLOSURE MULTILANE INTERSECTION
URBAN LANE CLOSURE, MULTILANE, 1W OR 2W, CROSSWALK OR SIDEWALK CLOSURE, 701602-02 701701-04

701801-03

FOR SPEEDS < 45 MPH TRAFFIC CONTROL DEVICES SIGN PANEL MOUNTING DETAILS 720001 TYPICAL PAVEMENT MARKINGS 781001-02 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

HANDHOLES DOUBLE HANDHOLES

DOUBLE HANDHOLES
STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
STEEL MAST ARM ASSEMBLY AND POLE
CONCRETE FOUNDATION DETAILS
SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
TRAFFIC SIGNAL MOUNTING DETAILS - POST AND BRACKET MOUNT 880006

DETECTOR LOOP INSTALLATIONS

GENERAL NOTES

- A-1. THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" LATEST EDITION, THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" LATEST EDITION, PROJECT SPECIFICATIONS, ALL APPLICABLE REQUIREMENTS OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, THE VILLAGE OF INICOLINWOOD, THE METROPOLITAN WATER RECLAMATION DISTRICT, ALL APPLICABLE REQUIREMENTS OF THE ORDINANGES OF AUTHORITIES HAVING JURISDICTION AND ALL ADDENDA THERETO SHALL GOVERN THIS WORK.
- A-2. THE STANDARD SPECIFICATIONS, PROJECT SPECIFICATIONS, CONSTRUCTION PLANS AND SUBSEQUENT DETAILS ARE ALL TO BE CONSIDERED AS PART OF THE CONTRACT. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE TO BE CONSIDERED A PART OF THE CONTRACT.
- NO CONSTRUCTION PLANS SHALL BE USED FOR CONSTRUCTION UNLESS SPECIFICALLY MARKED FOR CONSTRUCTION. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERHEY ALL DIMENSIONS AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL COMBITIONS AT THE USE SITE. IN ADDITION, THE CONTRACTOR MUST VERHEY THE ENGINEER'S LINE AND GRADES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONSTRUCTION SHALL SECURE WRITERN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSION OR DISCREPANCIES. FILLING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR OURSTOON ARISING WITH RESPECT TO THE TWOE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.
- A-4. BEFORE ACCEPTANCE BY THE OWNER AND FINAL PAYMENT, ALL WORK SHALL BE INSPECTED AND APPROVED BY THE OWNER OR HIS REPRESENTATIVES. FINAL PAYMENT WILL BE MADE AFTER ALL OF THE CONTRACTOR'S WORK HAS BEEN APPROVED AND ACCEPTED.
- WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED. THE LOOSE MATERIAL WILL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE CONTRACTOR'S FALURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENA OF ADEQUATE SIGNS, TRAFFIC CONTROL DEVICES, AND WARNING DEVICES INFORM AND PROTECT THE PUBLIC DURING ALL PHASES OF CONSTRUCTION.
- A-7. WHENEVER THE PERFORMANCE OF WORK IS INDICATED ON THE PLANS AND NO ITEM IS INCLUDED IN THE CONTRACT FOR PAYMENT, THE WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- A-B. DURING CONSTRUCTION OPERATIONS THE CONTRACTOR SHALL ENSURE POSITIVE SITE DRAINAGE AT THE CONCLUSION OF EACH DAY. SITE DRAINAGE MAY BE ACHIEVED BY DITCHING, PUMPING OR ANY OTHER METHOD ACCEPTABLE TO THE ENGINEER AND THE VILLAGE.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE FROM THE SITE ANY AND ALL MATERIALS AND DEBRIS WHICH RESULT FROM HIS CONSTRUCTION OPERATIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.
- A-10. CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL AREAS AFFECTED BY EQUIPMENT OR LABORERS TO EXISTING CONDITIONS. CONTRACTOR IS ALSO RESPONSIBLE FOR PROTECTING ALL NEW WORK UNTIL COMPLETION OF THIS CONTRACT.
- A-11, EXISTING UTILITIES: WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION INFORMATION REPRESENTS ONLY THE OPINION OF THE EMONEER AS TO THE LOCATION OF SUCH UTILITIES AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE CONTRACTORY OF THE INFORMATION SHOWN ON THE PLANS RELATIVE TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES OR THE MANNER IN WHICH THEY ARE TO BE REMOVED OR ADJUSTED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES. HE SHALL ALSO OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES, JULLIE, DETAILED INFORMATION RELATIVE TO THE LOCATION OF THEIR FACILITIES.

 AND THE WORKING SCHEDULES OF THE UTILITY COMPANIES FOR REMOVING OR ADJUSTING THEM.
- A-12. THE VILLAGE OF LINCOLNWOOD SHOULD BE CONTACTED 48 HOURS PRIOR TO THE START OF ANY EXCAVATION. (847-675-0888)
- A-13. AGGREGATE SPECIFIED ON THESE PLANS SHALL BE CONSIDERED CRUSHED STONE MEETING THE GRADATION SPECIFIED. CRUSHED CONCRETE MAY NOT BE SUBSTITUTED FOR CRUSHED STONE, UNLESS APPROVED BY THE ENGINEER.
- A-14. EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES EASEMENTS FOR THE EXISTING UILTIES, BOY ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.
- A-15. REMOVED PAYEMENT, SIDEWALK, CURB AND GUTTER, ETC. SHALL BE DISPOSED OF OFFSITE AT LOCATIONS PROVIDED BY THE CONTRACTOR AT HIS EXPENSE.

PAVING AND GRADING NOTES

- C-1. ALL PAVEMENT DIMENSIONS ARE TO THE EDGE OF PAVEMENT, UNLESS OTHERWISE INDICATED.
- AND ALL RELATED WORK.

 PAVEMENT DESIGN SHALL BE AS DETAILED. PRIOR TO THE PLACEMENT OF ANY STONE BASE ALL SUBBASE SHALL BE COMPACTED WITH A SELF-PROPELLED SHEEPSFOOT COMPACTOR (CAT 815 OR LARGER) TO A MINIMUM DENSITY OF 95% MODIFIED PROCTOR. TESTING SHALL BE BY NUCLEAR DENSITY ITEST AND PROOF ROLLING. THE CONTRACTOR SHALL PROOF ROLL THE SUBGRADE BEFORE PAVEMENT CONSTRUCTION PROCEEDS. THE PROOF ROLL MUST BE WITNESSED BY THE ENGINEER AND A REPRESENTATIVE OF THE VILLAGE. THE SUBGRADE WILL NOT BE APPROVED AND ACCEPTED WITHOUT ROOF ROLLING SHALL BE DONE BY A FULLY LOADED THREE-AXLE DUMP TRUCK TOCETHER WITH LOAD SHALL BE DONE BY A FULLY LOADED THREE-AXLE DUMP TRUCK TOCETHER WITH LOAD OF PROOF MODIFIED SHALL BE SUBGRADE OR BASE HAS FAILURE OR PUMPING AS INDICATED BY PROOF ROLLING, THE ABEA OF FAILURE OR PUMPING SHALL BE SUBJECTATED AND RECOMPACTED IN ACCORDANCE WITH THE STANDARD SHECIPITATION, SUBSEQUENT PROOF ROLL MILL BE CONDUCTED UNTIL THE SUBGRADE IS FOUND TO BE ACCEPTABLE TO THE ENGINEER.
- ALL DISTURBED NON-PAVEMENT AREAS SHALL BE ROUGH GRADED. THE CONTRACTOR IS RESPONSIBLE FOR ALL EROSION PREVENTION AND REPAIR.
- C-5. PRIME COAT FOR THE SURFACE COURSE SHALL BE APPLIED TO THE BINDER AT A RATE OF 0.07 GAL/SY (SS-1). PRIME COAT FOR THE BINDER COURSE SHALL BE APPLIED TO THE SUBBASE AT A RATE OF 0.25 GAL/SY (P.E.P.).
- ALL CURB AND SIDEWALK SHALL BE REINFORCED WITH TWO #4 REBARS (THREE EQUALLY SPACED REBAR FOR SIDEWALK) WHENEVER THE CURB OR SIDEWALK CROSSES A UTILITY TRENCH. EXTEND THE REBAR TEN FEET BEYOND THE TRENCH ON BOTH SIDES.
- C-7. ALL SIGN POSTS SHALL CONFORM TO VILLAGE STANDARDS.
- ALL MAILBOXES AND OTHER PRIVATE PROPERTY DISTURBED AS PART OF THIS PROJECT SHALL BE RELOCATED OR REPLACED. THIS WORK IS CONSIDERED INCIDENTAL TO THE CONTRACT AS NOTED WITHIN ARTICLE 107.20, OF THE 'STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2007.
- C-9. EXTRA CARE SHALL BE EXERCISED WHEN OPERATING EQUIPMENT AROUND TREES AND SHRUBS. INJURED BRANCHES OR ROOTS SHALL BE PRUNED IN A MANNER SATISFACTORY TO THE ENGINEER AND SHALL BE PAINTED WHERE THE CUT WAS MADE. ROOTS EXPOSED DURING EXCAVATING OPERATIONS SHALL BE NEATLY PRUNED AND COVERED WITH TOPSOIL. THIS WORK SHALL BE DONE AS SOON AS POSSIBLE AND SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

EXISTING UTILITIES: WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER AS TO THE LOCATION OF SUCH UTILITIES AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATEVER IN RESPECT TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS RELATIVE TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES OR THE MANNER IN WHICH THEY ARE TO BE REMOVED OR ADJUSTED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES. HE SHALL ALSO OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES, DETAILED INFORMATION RELATIVE TO THE LOCATION OF THE STACILITIES AND THE WORKING SCHEDULES OF THE UTILITY COMPANIES FOR REMOVING OR ADJUSTING THEM. OF THE UTILITY COMPANIES FOR REMOVING OR ADJUSTING THEM.

CONTRACTOR IS RESPONSIBLE FOR CONTACTING J.U.L.I.E. AT 1-800-892-0123 AND MUST ACQUIRE A DIG NUMBER A MINIMUM OF 72 HOURS PRIOR TO ANY WORK BEING DONE.

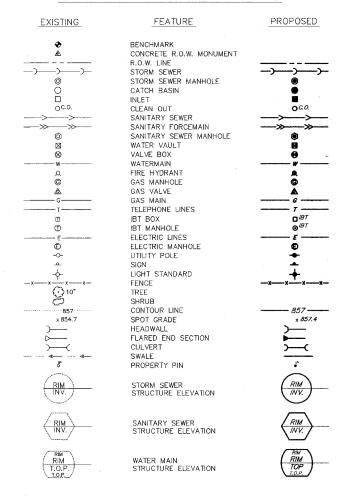
NOTE: THE VILLAGE OF LINCOLNWOOD OWNS ALL COMBINED SEWERS FROM THE SITE TO THE MWRD INTERCEPTOR

DENOTES A REFERENCE TO A PAY ITEM INCIDENTENTAL TO THE CONTRACT OR ANOTHER PAY ITEM WITHIN THE CONTRACT

WASTE DISPOSAL: THE CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK (LUST) CLEANUPS OR THAT IS PREQUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

TOTAL SHEETS 1340 06-00048-00-RS COOK 36 2 GENERAL NOTES ILLINOIS

STANDARD SYMBOLS



HMA MIXTURE REQUIREMENTS

LTEM	AC TYPE	VOIDS
POLY. HOT-MIX ASPHALT SURFACE COURSE, MIX "F" N90	SBS/SBR PG 70-22	4% @ 90 GYR
HOT-MIX ASPHALT SURFACE COURSE, MIX "C" N50	PG 64-22	4% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	PG 64-22/58-22	4% @ 50 GYR
POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75 N50	SBS/SBR PG 76-28/-22	4% @ 50 GYR
CLASS D PATCHES, TYPE I,II&III, 7", IL-19mm	PG 64-22/58-22	4% @ 70 GYR
HOT-MIX ASPHALT BASE COURSE, 10"	PG 64-22/58-22	4% @ 50 GYR
HOT-MIX ASPHALT REPLACEMENT OVER PATCHES, IL-19mm	PG 64-22/58-22	4% @ 70 GYR
INCIDENTAL HOT-MIX ASPHALT SURFACING:		
HOT-MIX ASPHALT SURFACE COURSE, MIX "C" N50	PG 64-22	4% @ 50 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT MIXTURE QUANTITIES IS 112lbs/sq yd/in

* WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22

PLANS PREPARED BY: REVISIONS GEWALT HAMILTON ASSOCIATES, INC.

ILLINOIS DEPARTMENT OF TRANSPORTATION **GENERAL NOTES**

BUSINESS DISTRICT IMPROVEMENTS TOUHY AVE. AND CRAWFORD AVE. SECTION # 06-00048-00-RS

DRAWN BY: DSM CHECKED BY: SDB

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET. NO.
1340	06-00048-00-RS	соок	36	3
	SUMMARY	OF QUA	NTITIES	A

ILLINOIS

Other	STRUCTURE	LOCA	TION	PAY ITEM DESCRIPTION	DRAINAGE
0	TYPE	STA	O/S (FT)		STR CLEAN
0	1	TOUHY AVE	. ;		
0	MANHOLE	27+43	30 L	N/A	Х
0	MANHOLE	27+46	30 R	N/A	X
0	MANHOLE	27+94	26 L	FR & LIDS ADJUST SPL	-
	VALVE VAULT	27+98	43 R	FR & LIDS ADJUST SPL	
0	MANHOLE	28+10	23 R	FR & LD ADJ T1F CLSP	
0	, MANHOLE	28+67	29 L	INLETS ADJ NEW T23F&G	X
0	MANHOLE	28+67	29 R	MAN RECON NEW T23F&G	X
300	MANHOLE	29+01	36 L	MAN ADJUST	
0	VALVE BOX	29+46	34 L	DOM WAT SER BOX ADJ	
0	MANHOLE	30+24	37 L	MAN ADJUST	
0	VALVE BOX	30+39	32 R	DOM WAT SER BOX ADJ	
ō	VALVE BOX	30+41	33 L	DOM WAT SER BOX ADJ	
0	MANHOLE	30+72	29 L	INLETS ADJ NEW T23F&G	Х
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	MANHOLE	30+72	29:R	MAN RECON NEW T23F&G	Х
0	MANHOLE	30+87	22 R	FR & LIDS ADJUST SPL	
0	VALVE BOX	30+94	32 L	DOM WAT SER BOX ADJ	
0	VALVE VAULT	30+98	28 L	FR & LIDS ADJUST SPL	
0	MANHOLE	31+11	22 R	MAN RECONST	
0	VALVE VAULT	31+16	40 R	FR & LD ADJ T1F CLSP	
0	VALVE VAULT	31+16	44 L	FR & LIDS ADJUST SPL	Antonia antonia di Controlia di
0	MANHOLE	31+53	26 R	MAN RECONST	
	VALVE BOX	31+77	33 R	DOM WAT SER BOX ADJ	
0	VALVE VAULT	31+79	29 L	WRECONST	
0	INLET	31+85	29 R	INLETS TAT23F&G	
0	MANHOLE	32+74	30 R	INLETS ADJ NEW T23F&G	Х
0	CATCH BASIN	33+03	29 L	CB TA 4 DIA T23F&G	
0	MANHOLE	33+11	25 L	MAN RECONST	
0	VALVE VAULT	33+52	46 L	WADJUST	
ō	INLET	34+26	45 L	REMOVINLETS	
	INLET	34+26	40 L	INLETS TAT23F&G	
0	MANHOLE	34+43	43 L	REMOV MANHOLES	<u> </u>
0	CATCH BASIN	34+44	40 L	CB TA 4 DIA T23F&G	
0	METER VAULT	34+47	32 L	DOM MET VLTS ADJ	ļ
	INLET	34+56	29 L	INLETS TAT23F&G	
	INLET	34+56	29 R	INLETS TAT23F&G	·
	CATCH BASIN	34+56	0 R	CB TA 4 DIA T1F OL	
	METER VAULT	34+75	32.L	DOM MET VLTS ADJ	
3	VALVE BOX	35+04	39 R	DOM WAT SER BOX ADJ	ļ
0	METER VAULT	35+25	32 L	DOM MET VLTS ADJ	-
	MANHOLE	35+41	30 R	MAN ADJ NEW T23F&G	X
	VALVE VAULT	35+51	44 L	WRECONST	
	VALVE BOX	35+96	32 R	DOM WAT SER BOX ADJ	ļ
)	MANHOLE	36+04	41 L	MAN ADJUST	
)	INLET	36+22	29 L	INLETS TAT23F&G	ļ
)	VALVE BOX	36+57	32 L	DOM WAT SER BOX ADJ	
<u></u>	VALVE BOX	36+60	32 L	DOM WAT SER BOX ADJ	ļ
0	VALVE BOX	36+88	32 L	DOM WAT SER BOX ADJ	
		36+88	32 L 32 L	DOM WAT SER BOX ADJ	
)	VALVE BOX MANHOLE	L		MAN ADJ NEW T23F&G	Х
		37+12	30 L	MAN ADJ NEW 123F&G MAN ADJ NEW 123F&G	
)	MANHOLE	37+13 37+50	30 R 25 R	FR & LIDS ADJUST SPL	Х
	MANHOLE	37+50 37+54			
			39 L	FR & LD ADJ T1F CLSP	<u> </u>
	VALVE VAULT	37+58 37+70	51 L	FR & LIDS ADJUST SPL	ļ
	MANHOLE		32 L	FR & LIDS ADJUST SPL	
	MANHOLE	37+77	38 R	FR & LD ADJ T1F CLSP	ļ
	MANHOLE	37+83	42 L	FR & LD ADJ T1F CLSP	
	MANHOLE	37+85	40 R	FR & LIDS ADJUST SPL	
	MANHOLE MANHOLE	38+34	29 R	MAN RECON NEW T23F&G	X
	TOP	38+34	29 L	N/A	X
	VALVE VAULT	39+63	26 L	FR & LIDS ADJUST SPL	
		AWFORD A			į
	VALVE BOX	10+49	32 R	DOM WAT SER BOX ADJ	
	MANHOLE	11+22	29 L	MAN ADJ NEW T23F&G	X
	MANHOLE	11+23	29 R	MAN RECON NEW T23F&G	X
	MANHOLE	11+41	1 R	FR & LIDS ADJUST SPL	ļ
_	MANHOLE	12+72	32 R	MAN ADJUST	
	MANHOLE	12+96	32 R	MAN ADJUST	
_	MANHOLE	13+18	32 R	MAN ADJUST	
	MANHOLE	13+29	36 R	MAN ADJUST	
	MANHOLE	13+48	32 R	MAN ADJUST	
	MANHOLE	13+48	29 L	MAN ADJ NEW T23F&G	Х
	MANHOLE	13+49	29 R	MAN ADJ NEW T23F&G	X
	MANHOLE	13+63	34 R	MAN ADJUST	
_	MANHOLE	13+80	1 L	FR & LD ADJ T1F CLSP	
	MANHOLE	13+92	22 R	FR & LD ADJ T1F CLSP	
	MANHOLE	13+93	15 L	FR & LIDS ADJUST SPL	

0 0	23 36	29 8		ANHOLE ANHOLE	13+92
	36	8	M	ANUIOLE 1	
0			1 2	WHOLE	13+93
	U	0			
0	0	0			
0	0	0			
WALT I S S O C I A Consulting Engin 850 Fores' Vernon Hill (847)	A TES, INC neers & Surveyors t Rige Brive lls, H. 6006i 478-9700		REVISION NAME	S DATE	SCAI DATE
	O REPARED WALT S S O C 1 A Consulting Engi 850 Pores Vernou 188 (847)	0 0 0 REPARED BY: WALT HAMILTO	O O O REPARED BY: WALT HAMILTON S S O C I A T E S, I N C. Consulting Engineers & Surveyors 860 Perset Kige Brive Verson Hills, II. 8006i (347) 47-57000	REPARED BY: WALT HAMILTON S O C LA T E S, I N C. Consulting Engineers & Surveyors 850 Forest Edge Brive Verson HBM, IL 80061 (267) 478-7000	REPARED BY: WALT HAMILTON S O CLA TE S, IN C. Consulting Engineers & Surveyors 850 Forest Edge Brive Verson (IBM), IL 60061 (2671) 478-7070

				SSD	OTA	670	07C
				ITEP	State		
			Total	80%/20	95%/5%	No.	Non
			Project	% Code	Code:	Non-	Non-
Hom #	Description	Unit	Quantity	1603	1000-2A	participating	Other
Item #						Village	
	Earth Excavation	CY	900	850	0	0	50
	Trench Backfill	CY	40	0	0	40	0
	Topsoil, Furnish and Place, 6"	SY	50	50	0	0	0
	Topsoil, Furnish and Place, 24"	SY	1400	1200	0	100	100
	Compost, Furnish and Place, 3"	SY	535	375	0	80	80
	Nitrogen Fertilizer Nutrient	LB	11	11	0	0	0
	Phosphorus Fertilizer Nutrient	LB	11	11	0	0	0
25000600	Potassium Fertilizer Nutrient	LB	11	11	0	0	0
25200110	Sodding, Salt Tolerant	SY	850	850	0	0	0
25200200	Supplemental Watering	Unit	20	20	0	0	0
31101200	Sub-base Granular Material, Type B 4"	SY	769	260	509	0	0
31101600	Sub-base Granular Material, Type B 8"	SY	540	0	0	293	247
	Aggregate Base Course, Type B 4"	SY	1600	1423	0	35	142
35101800	Aggregate Base Course, Type B 6"	SY	260	260	0	0	0
	Portland Cement Concrete Base Course Widening 10"	SY	210	0	0	210	Ō
	Hot-Mix Asphalt Base Course, 10"	SY	509	Õ	509	0	0
	Aggregate for Temporary Access	TN	600	0	0	600	0
	Bituminous Materials (Prime Coat)	GAL	12	1	10	0	1
	Aggregate (Prime Coat)	TN	26	2	23	0	1
	Mixture for Cracks, Joints, and Flangeways	TN	4	0	4	0	0
	Hot-Mix Asphalt Surface Removal - Butt Joint	SY	192	0	192	0	0
						0	
	Hot-Mix Asphalt Replacement Over Patches	TN	55	9	46		0
	Hot-Mix Asphalt Surface Course, Mix "C", N50	TN	160	0	0	91	69
	Polymerized Hot-Mix Asphalt Surface Course, Mix "F", N90	TN	1187	0	1187	0	0
	Hot-Mix Asphalt Binder Course, IL-19.0, N50	TN	226	0	0	117	109
	Incidental Hot-Mix Asphalt Surfacing	TN	20	20	0	0	0
	Portland Cement Concrete Driveway Pavement, 8"	SY	271	0	271	0	0
	Portland Cement Concrete Sidewalk, 5"	SF	1190	0	438	62	690
	Portland Cement Concrete Sidewalk, 8"	SF	3400	3400	0	0	0
42400800	Detectable Warnings	SF	100	40	0	40	20
14000100	Pavement Removal	SY	2583	1430	509	260	384
44000159	Hot-Mix Asphalt Surface Removal 2 1/2"	SY	11501	0	11501	0	0
44000163	Hot-Mix Asphalt Surface Removal 3 1/2"	SY	1456	1110	0	0	346
44000200	Driveway Pavement Removal	SY	711	406	271	34	0
	Sidewalk Removal	SF	10288	8821	438	296	733
	Combination Concrete Curb and Gutter Removal	FT	2592	581	1713	298	0
	Hot-Mix Asphalt Removal Over Patches, 2 1/2"	SY	382	64	318	0	0
	Class D Patches, Type I, 7"	SY	20	0	0	20	0
	Class D Patches, Type II, 7"	SY	120	0	0	120	ō
	Class D Patches, Type III, 7"	SY	315	0	315	0	Ö
	Saw Cuts	FT	4972	2640	2050	0	282
	Storm Sewers, Class A, Type I, 8"	FT	137	0	0	137	0
	Storm Sewers, Class A, Type I, 12"	† FT	26	0	0	26	0
	Storm Sewers to be Cleaned	FT	390	0	390	0	0
	Storm Sewer Removal 12"	FT	18				
				0	0	18	
	Water Service Line, 2"	FT	80	80	0	0	0
	Fire Hydrants to be Relocated	EA	1	1	0	0	0
	Domestic Meter Vaults to be Adjusted	EA	3	1	0	0	2
	Domestic Water Service Boxes to be Adjusted	EA	12	12	0	0	0
	Pipe Underdrains, Fabric Lined Trench, 4"	FT	1950	1950	0	0	0
50200105	Catch Basins, Type A, 4' Diameter, Type 1 Frame, Open Lid	EA	1 1	1 1	0	0	0
50201330	Catch Basins, Type A, 4' Diameter, Type 23 Frame & Grate	EA	2	1	0	11	0
0237460	Inlets, Type A, Type 23 Frame and Grate	EA	5	4	0	1	0
	Manholes to be Adjusted	EA	10	10	0	0	0
	Manholes to be Adjusted with New Type 23 Frame and Grate	EA	5	3	2	0	0
	Manholes to be Reconstructed	EA	3	3	0	0	0
	Manholes to be Reconstructed with New Type 23 Frame and Grate	EA	4	4	0	0	0
30261530	Inlets to be Adjusted with New Type 23 Frame and Grate	EA	3	1	2	0	0
	Valve Vaults to be Adjusted	EA	1	1	0	0	0
	Valve Vaults to be Reconstructed	EA	2	2	0	0	0
	Frames and Lids to be Adjusted (Special)	EA	12	0	12	0	0
	Removing Manholes	EA	1	1	0	Ö	Ö
	Removing Inlets	EA	1	1	ō	0	0
	Concrete Curb, Type B	FT	1132	ö	ō	1132	 0
	Combination Concrete Curb & Gutter, Type B-6.12	FT	4310	1600	1960	350	400
	P.C.C. Ramped Median Terminal	EA	6	6			
	Non-Special Waste Disposal	CY			180	0	0
			180	0	180	0	0
	Special Waste Plans and Reports	LS	1 1	0	1	0	0
	Backfill Plugs	CY	15	0	15	0	0
	Soil Disposal Analysis	EA	4	0	4	0	0
	Mobilization	LS	1	0.7	0.3	0	0
	Traffic Control and Protection	LS	1	0.7	0.3	0	0
	Short-Term Pavement Marking	FT	288	0	288	0	0

		Itom #	Description	1 Init	Total Project	ITEP 80%/20 % Code:	State 95%/5% Code: 1000-2A	Non- participating Village	Non- participating Other
	*	Item #	Description Temporary Paint Payament Marking - Letters and Symbols	Unit		Y00.3			
170000005 Temporary Parla Pavement Marking Line - 6" FT 1990 0 1990 0 0 0 0 0 0 0 0 0	*								
170000005 Temporary Parta Pavement Marking Line - 12"	*								
	*								
T2000100 Sign Parel - Type 1	÷								
P2000100 Metal Post - Type A FT 108 108 0 0 0 0 0 0 0 0 0	*								
78000100 Thermoplastic Pavement Marring, Letters & Symbols SF 317 0 182 135 0 00 78000200 Thermoplastic Pavement Marring Line - 6" FT 1999 0 1990 0 0 0 0 0 0 0 0 0	*								
PRO000200 Thermoplastic Parament Maring Line - 4" FT 9590 0 8590 640 300 78000000 Thermoplastic Parament Maring Line - 12" FT 445 0 446 0 0 0 0 78000000 Thermoplastic Parament Maring Line - 12" FT 445 0 446 0 0 0 0 78000000 Thermoplastic Parament Maring Line - 12" FT 445 0 446 0 0 0 0 0 0 0 0 0	*								
PRODUCADO Thermoplastic Pavement Marring Line - 6"	*								
78000000 Thermoplastic Pavement Marring Line - 12"	*							0	0
P8101000 Reised Reflective Pawement Marker EA 137 0 137 0 0 0 0 18700000 Conduit in Trench, 1" Diameter, Galvanized Steel FT 85 25 0 60 0 0 181000000 Conduit in Trench, 2" Diameter, Galvanized Steel FT 85 25 0 60 0 0 0 181000000 Conduit in Trench, 2" Diameter, Galvanized Steel FT 132 40 0 92 0 0 181000000 Conduit in Trench, 2" Diameter, Galvanized Steel FT 4393 1318 0 3075 0 0 181000000 Conduit in Trench, 2" Diameter, Galvanized Steel FT 4393 1318 0 3075 0 0 20 0 181000000 Conduit Brobeded in Structure, 2" Dia, Galvanized Steel FT 4393 1318 0 3075 0 20 0 181000000 Conduit Brobeded in Structure, 2" Dia, Galvanized Steel FT 590 177 0 413 0 181001000 Conduit Brobeded in Structure, 2" Dia, Galvanized Steel FT 590 177 0 413 0 181701145 Electric Catelie in Conduit, 500V (AIP-Type Use) if CN 0 FT 590 177 0 413 0 181701145 Electric Catelie in Conduit, 500V (AIP-Type Use) if CN 0 FT 590 177 0 413 0 181701145 Electric Catelie in Conduit, 500V (AIP-Type Use) if CN 0 FT 590 177 0 413 0 181701145 Electric Catelie in Conduit, 500V (AIP-Type Use) if CN 0 FT 590 177 0 413 0 181701145 Electric Catelie in Conduit, 500V (AIP-Type Use) if CN 0 FT 590 179 0 18300000 FT 590 18000000 FT 590 180000000000000000000000000000000000	*	78000600	Thermoplastic Pavement Marking Line - 12"	FT	445	0	445	0	0
178000200 Raised Reflective Pavement Marker Removal EA 46 0 0 0 0 101000300 Conduit in Trench, 17 Diameter, Galvanized Steel FT 85 25 0 60 0 0 10100000 Conduit in Trench, 27 Diameter, Galvanized Steel FT 132 40 0 92 0 10100000 Conduit in Trench, 27 Diameter, Galvanized Steel FT 132 40 0 92 0 0 10100000 Conduit Pushed, 27 Diameter, Galvanized Steel FT 4393 3118 0 3075 0 101000000 Conduit Futher 27 Diameter, Galvanized Steel FT 4393 3118 0 3075 0 0 2 0 0 2 0 0 2 0 0	*	78000650	Thermoplastic Pavement Marking Line - 24"	FT	266	0	266	0	0
810009300 Conduit in Trench, 1" Diameter, Galvanized Steel FT 435 25 0 60 0 0 810105000 Conduit in Trench, 2" Diameter, Galvanized Steel FT 4333 318 0 3076 0 810105000 Conduit in Trench, 2" Diameter, Galvanized Steel FT 4333 318 0 3076 0 81030000 Conduit Embedded on Structure, 2" Dia., Galvanized Steel FT 4393 318 0 3076 0 81030010 Conduit Embedded in Structure, 2" Dia., Galvanized Steel FT 590 177 0 413 0 81700110 Electric Cable in Conduit, 6000 V (XLP-Type Use) I/C No. 10 FT 510 153 0 357 0 81701143 Electric Cable in Conduit, 6000 V (XLP-Type Use) I/C No. 6 FT 29130 6739 0 20391 0 81702130 Electric Cable in Conduit, 6000 V (XLP-Type Use) I/C No. 6 FT 29130 6739 0 20391 0 81702130 Electric Cable in Conduit, 6000 V (XLP-Type Use) I/C No. 6 FT 29130 6739 0 20391 0 81702130 Electric Cable in Conduit, 6000 V (XLP-Type Use) I/C No. 6 FT 29130 6739 0 20391 0 81702130 Electric Cable in Conduit, 6000 V (XLP-Type Use) I/C No. 30 FT 282 85 0 197 0 819002001 Front-on and Backfill for Electrical Work FT 217 65 0 152 0 82000505 Lighting Controller, Special EA 1 0 0 0 0 0 0 0 0 0	*	78100100	Raised Reflective Pavement Marker	EΑ	137	0 -	137	0	0
B1000600 Conduit in Trench, Z' Diameter, Galvanized Steel FT 132 40 0 92 0 81018500 Conduit Pushed, Z' Diameter, Galvanized Steel FT 4303 318 0 3075 0 81030000 Cleaning Existing Conduit FT 200 0 0 20 0 0 181030100 Conduit Splice EA 2 0 0 2 0 0 181030100 Conduit Splice EA 2 0 0 2 0 0 181030100 Conduit Splice EA 2 0 0 2 0 0 181030100 Conduit Splice EA 2 0 0 2 0 0 181030100 Conduit Splice EA 2 0 0 2 0 0 181030100 Conduit Splice EA 2 0 0 2 0 0 181030100 Conduit Splice EA 2 0 0 2 0 0 181701145 Electric Cable in Conduit, 6000 (VIZP-Type Use) I/C No. 10 FT 510 153 0 357 0 181701145 Electric Cable in Conduit, 6000 (VIZP-Type Use) I/C No. 6 FT 29130 8739 0 20391 0 181702130 Electric Cable in Conduit, 6000 (VIZP-Type Use) I/C No. 30 FT 282 85 0 197 0 18100200 Trench and Backfill for Electrical Work FT 217 65 0 152 0 282000505 Lighting Controller Special EA 1 0 0 0 0 0 383000700 Brancava Existing Lighting Units Salvage EA 19 0 0 19 0 34200000 Existing Lighting Units Salvage EA 19 0 0 19 0 34200000 Existing Lighting Units Salvage EA 19 0 0 19 0 34200000 Existing Lighting Units Salvage EA 19 0 0 19 0 34200000 Existing Lighting Units Salvage EA 19 0 0 19 0 34200000 Existing Lighting Units Salvage EA 19 0 0 19 0 34200000 Existing Lighting Units Salvage EA 19 0 0 19 0 342000000 Existing Lighting Units Salvage EA 19 0 0 19 0 342000000 Existing Lighting Units Salvage EA 19 0 0 19 0 342000000 Existing Lighting Units Salvage EA 19 0 0 19 0 0 0 0 0 0 0 0 0	*	78300200	Raised Reflective Pavement Marker Removal	EA	46	0	46	0	0
B1015500 Conduit Pushed.	*			FT	85	25	0	60	0
B1030010 Cleaning Existing Conduit	*	81000600	Conduit in Trench, 2" Diameter, Galvanized Steel	FT	132	40	0	92	0
Bit Bit	*								
B1200120 Conduit Embedded in Structure, 2" Dia, Galvanized Steel FT 590 177 0 413 0 B1700110 Eschetic Caple in Conduit, 600 / IXP. Type Use) 17.0 No. 10 FT 510 153 0 557 0 B1701145 Electric Caple in Conduit, 600 / IXP. Type Use) 17.0 No. 6 FT 29130 8739 0 20391 0 B1900200 Trench and Backfill for Electrical Work FT 217 65 0 152 0 B1900200 Trench and Backfill for Electrical Work FT 217 65 0 152 0 B1900200 Trench and Backfill for Electrical Work FT 217 65 0 152 0 B1900200 Trench and Backfill for Electrical Work FT 217 65 0 152 0 B1900200 Trench and Backfill for Electrical Work FT 217 65 0 152 0 B1900200 Trench and Backfill for Electrical Work FT 217 65 0 152 0 B1900200 Trench and Backfill for Electrical Work FT 217 65 0 152 0 B1900200 Trench and Backfill for Electrical Work FT 217 65 0 152 0 B1900200 Trench and Backfill for Electrical Work FT 217 65 0 152 0 B1900200 Trench and Backfill for Electrical Work FT 217 65 0 152 0 B1900200 Trench and Backfill for Electrical Work FT 217 65 0 152 0 B1900200 Trench and Backfill for Electrical Work FT 217 65 0 152 0 B1900200 Trench and Backfill for Electrical Work FT 217 65 0 152 0 B1900200 Trench and Backfill for Electrical Work FT 248 0 0 0 19 0 B1900200 Trench and Backfill for Electrical Work FT 248 0 0 0 1 0 B1900200 Trench and Backfill for Electrical Work FT 217 65 0 0 0 0 0 B1900200 Trench and Backfill for Electrical Work FT 274 0 734 0 0 0 0 0 0 0 0 0	*								
B317001140 Electric Cable in Conduit, 600V (XLP-Type Use) 1/C No. 10	*								
B1701145 Electric Cable in Conduit. 600V (XIP—Type Use) 1/C No. 3/0	*								
B1702130 Electric Cable in Conduit, 600V (XLP-Type Use) 1/C No. 3/0 FT 282 85 0 197 0 0 181900200 Trench and Backfill for Electrical Work FT 217 65 0 152 0 0 22 0 0 0 0 0 0 0	*								
81900200 Trench and Backfill for Electrical Work	*								
82500505 Lighting Controller. Special EA 1 0.3 0 0.7 0	*								
838007200 Light Pole Foundation, 24" Diameter FT 496 96 0 400 0 0 0 0 0 0 0	<u>.</u>								
83800700 Breakaway Device, Aluminum Coupling 1"	<u>.</u>								
B4200500 Removal of Existing Lighting Unit, Salvage	-								
B4200800 Pole Foundation, Removed									
B4500110 Removal of Lighting Controller									
B4500120 Removal of Electric Service Installation EA 2 0 0 2 0 0 87002200 Cancrete Foundation, Type D FT 4 0 70 4 0 0 0 1 0 0 0 0 0 0	*								
B450130 Removal of Lighting Controller Foundation EA 1 0 0 1 0 0 1 0 87800200 Concrete Foundation, Type D FT 4 0 0 4 0 0 0 0 0 0									
87800200 Concrete Foundation, Type D	*								
88600300 Detector Loop Replacement FT 734 0 734 0 0 0 0 0 0 0 0 0	*								
Septication Performance Performing Performance P	*								
C2CO5624 Shrub, Rhus Aromatica Grow-Low (Grow-Low Fragrant Sumac), 2' Width, Contail EA 64 0 0 34 30 E2009073 Vine-Euorymus Fortunei Var. Coloratus (Purple Leaf Wintercreeper), 3" Pot EA 81 81 0 0 0 0 0	*								
E20090P3 Vine-Eurrymus Fortunel Var Coloratus (Purple Leaf Wintercreeper), 3" Pot	*								
K0030450 Perennial Plants, Daffodil Bulbs Unit 1.3 1.3 0 0 0 0 0 0 0 0 0	*								
X0301407 Perennial Plants, Gallon Pot	*								
X0321766 Light Pole, Special (Decorative Ornamental)	*								
X0324062 Entrance Sign	*								
X0444100 Benches EA 9 9 0 0 0 0 0 X0539800 Tree Grates EA 34 34 34 0 0 0 0 0 X400100 Porland Cement Concrete Surface Removal (Variable Depth) SY 1000 1000 0 0 0 0 0 0	*								
X0539800 Tree Grates EA 34 34 0 0 0 0 0 X4067107 Polymerized Leveling Binder (Machine Method), IL-4.75, N50 TN 509 0 509 0 0 0 0 0 0 0 0 0	*								
XA400100 Portland Cement Concrete Surface Removal (Variable Depth) SY 1000 1000 0 0 0 0 0 0	*			EA	34	34	0	0	0
XA400100 Portland Cement Concrete Surface Removal (Variable Depth) SY 1000 1000 0 0 0 0 0 0				TN	509	0	509	0	0
X8950200 Rebuild Existing Handhole EA 3 0 0 3 0 0 0 0 0 0				SY	1000	1000	0	0	0
XX000959 Trash Receptacles EA 13 13 0 0 0 0 0		X7240500	Relocate Existing Signs						
XX001011 Bicycle Racks	*	X8950200	Rebuild Existing Handhole						
XX001136 Light Pole, Special EA 40 0 0 40 0	*								
XX003219 Unit Pavers SF 11100 11100 0 0 0 0 0 0	*								
XX003885 Irrigation System LS 1 1 0 0 0	*								
XX004385 Frames and Lids to be Adjusted, With New Type 1 Frame, Closed Lid (Special) EA 7 0 0 7 0	*								
XX004869 Unit Pavers, Tactile SF 800 800 0 0 0 0 0 0 0	"								
XX004895 Pipe Underdrain Cleanout, Complete EA 24 24 0 0 0 0 0 0 0 0 0	.								
XX004997 Water Sevice Connection 2"	١.								
XX005617 Connect to Existing Manholes by Core Drilling									
XX005661 Remove and Relocate Sign No. 1 EA 1 0 0 1 0									
XX006697 Luminaire (Special) EA 40 0 0 40 0									
Z0013798 Construction Layout LS 1 1 0 0 0									
20018500 Drainage Structures to be Cleaned EA 16 3 13 0 0 20076600 Trainees HR 500 0 500 0 0 20076600 Trainees HR 500 0 0 0 20076600 Trainees HR 500 0 0 0 20076600 Tree, Skyline Honeylocust, 4" Cal. EA 26 23 0 0 0 20076600 Tree, Skyline Honeylocust, 4" Cal. EA 7 7 0 0 0 20076600 Tree, Skyline Honeylocust, 4" Cal. EA 1 1 0 0 0 20076600 Tree, State Street Miyabe Maple, 4" Cal. EA 1 1 0 0 0 20076600 Tree, State Street Miyabe Maple, 4" Cal. EA 6 4 0 2 0 20076600 Tree, State Street Miyabe Maple, 4" Cal. EA 6 4 0 0 0 20076600 Tree, State Street Miyabe Maple, 4" Cal. EA 6 4 0 0 0 20076600 Tree, State Street Miyabe Maple, 4" Cal. EA 6 4 0 0 0 20076600 Trainees Tree, State Street Miyabe Maple, 4" Cal. EA 2 2 0 0 0 20076600 Trainees Tree, State Street Miyabe Maple, 4" Cal. EA 2 2 0 0 0 20076600 Trainees Tree, State Street Miyabe Maple, 4" Cal. EA 4 0 0 0 20076600 Trainees Tree, State Street Miyabe Maple, 4" Cal. EA 1 1 0 0 0 20076600 Trainees Tree, State Street Miyabe Maple, 4" Cal. EA 1 1 0 0 0 20076600 Traines Tree, State Street Miyabe Maple, 4" Cal. EA 1 1 0 0 0 20076600 Traines Tree, State Street Miyabe Maple, 4" Cal. EA 2 2 0 0 0 20076600 Traines Tree, State Street Miyabe Maple, 4" Cal. EA 2 2 0 0 0 20076600 Traines Tree, State Street Miyabe Maple, 4" Cal. EA 2 2 0 0 0 20076600 Traines Tree, State Street Miyabe Maple, 4" Cal. EA 2 2 0 0 0 20076600 Traine	-								
Z0076600 Trainees	*								
Pyramidal European Hornbeam, 3" Cal.									
Tree, Skyline Honeylocust, 4" Cal.	* -								
Tree, State Street Miyabe Maple, 4" Cal. EA 7 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	*								
Tree, Baumann Common Horsechestnut, 4" Cal.	*								
* XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	*]	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Tree, Baumann Common Horsechestnut. 4" Cal.						
Tree, Accolade Elm, 4" Cal. EA 2 2 0 0 0 Cal.	*	21 P 1000X	Tree, Windy City Common Hackberry, 4" Cal.						
* ** ** ** ** ** ** ** ** ** ** ** ** *	*	XX00L91/-	Tree, Accolade Elm, 4" Cal.				0	0	0
* * * * * * * * * * * * * * * * * * *	*	LiferooxX	Shrub, Anthony Waterer Spirea, 30" Ht., Balled and Burlaped						29
* Shrub, Buffalo Juniper, 24" Sprd., Balled and Burlaped	*	SIB KONX	Shrub, Pfitzer Creeping Juniper, 24" Sprd., Balled and Burlaped						
* XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	*	PiRJOPKK	Shrub, Buffalo Juniper, 24" Sprd., Balled and Burlaped	EA	42	42	0	0	0
	*	05PJ00xX	News Stand Screen						
	*		Precast Medallions	EA	4	4 ·	0	0	0

ILLINOIS DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES

BUSINESS DISTRICT IMPROVEMENTS TOUHY AVE. AND CRAWFORD AVE. SECTION # 06-00048-00-RS

SCALE: N.T.S. DATE: 11-2-06 DRAWN BY: DSM DESIGNED BY: DSM CHECKED BY: SDB

LEGEND

(3-3/4") (AVERAGE)

4. HOT-MIX ASPHALT SURFACE REMOVAL, 2-1/2"

5. COMB. CONC. CURB & GUTTER

TYPE, B.6-12

TYPE B. 4"

1. EXISTING COMB. CONC. CURB & GUTTER

TYPE B6.12 (VARIABLE HEIGHT)
2. EXISTING P.C.C. BASE COURSE (7") +/3. EXISTING BITUMINOUS OVERLAY

6. COMB. CONC. CURB & GUTTER TYPE, B.6--12 (PITCH OUT)7. POLYMERIZED HOT-MIX ASPHALT

8. POLYMERIZED LEVELING BINDER

10. PORTLAND CEMENT CONCRETE

BASE COURSE WIDENING 10"

11. SUB-BASE GRANULAR MATERIAL,

12. EARTH EXCAVATION AND

MIX "C", N50, 2"

IL-19, N50, 3"

21. EXISTING PCC SIDEWALK

SURFACE COURSE, MIX "F", N90, 1-3/4"

(MACHINE METHOD), IL-4.75, N50, 3/4"

9. HOT-MIX ASPHALT BASE COURSE 10"

TOPSOIL FURNISH AND PLACE, 24"

(INCIDENTAL TO COMB. CONC. CURB AND GUTTER)

14.6# TIE BARS 24" LONG, 24" O/C

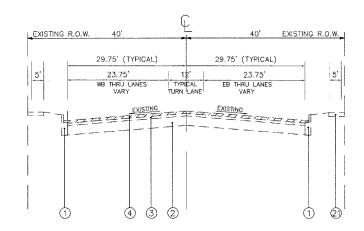
15. PCC SIDEWALK, 8" OR UNIT PAVERS
16. AGGREGATE BASE COURSE, TYPE B, 4"
17. HOT-MIX ASPHALT SURFACE COURSE

18. HOT-MIX ASPHALT BINDER COURSE,

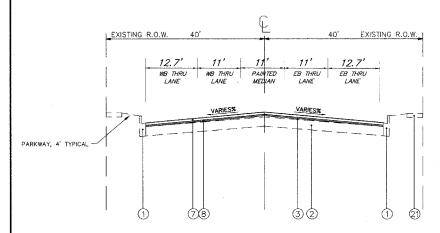
20. PIPE UNDERDRAINS, FABRIC LINED TRENCH, 4"

19. SUB-BASE GRANULAR MATERIAL, TYPE B, 8" (2 LIFTS)

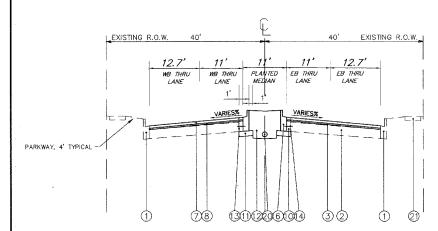
F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SKEETS	SHEET. NO.
1340	06-00048-00-RS	COOK	36	4
	TYPICAL (CROSS SI	CTIONS	



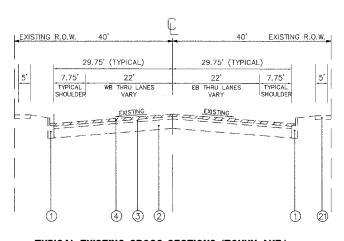
TYPICAL EXISTING CROSS SECTIONS (TOUHY AVE.)
FROM STA. 29+20 TO STA. 33+60



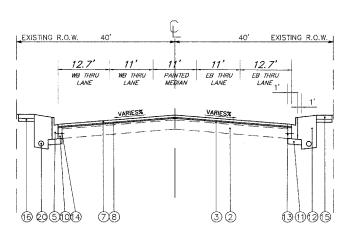
TYPICAL PROPOSED CROSS SECTIONS (TOUHY AVE.)
FROM STA. 25+15 TO STA. 26+62
FROM STA. 39+18 TO STA. 40+00



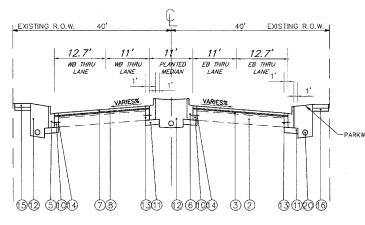
TYPICAL PROPOSED CROSS SECTIONS (TOUHY AVE.)
FROM STA. 26+62 TO STA. 27+73
FROM STA. 38+06 TO STA. 39+18 (NORTH SIDE ROW ONLY)



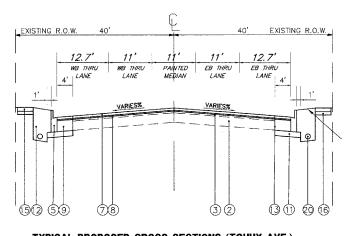
TYPICAL EXISTING CROSS SECTIONS (TOUHY AVE.)
FROM STA. 25+15 TO STA. 29+20
FROM STA. 33+60 TO STA. 40+00



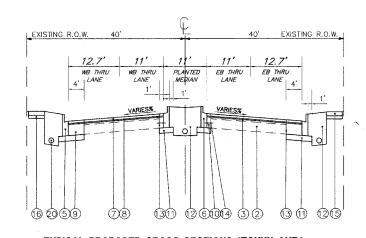
TYPICAL PROPOSED CROSS SECTIONS (TOUHY AVE.)
FROM STA. 28+45 TO STA. 31+00



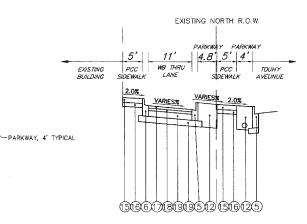
TYPICAL PROPOSED CROSS SECTIONS (TOUHY AVE.)
FROM STA. 38+06 TO STA. 39+18 (SOUTH SIDE ROW ONLY)



TYPICAL PROPOSED CROSS SECTIONS (TOUHY AVE.)
FROM STA. 31+67 TO STA. 33+10
FROM STA. 35+65 TO STA. 37+56



TYPICAL PROPOSED CROSS SECTIONS (TOUHY AVE.)
FROM STA. 33+10 TO STA. 35+65



PROPOSED CROSS SECTION (PARKING ACCESS)

SAMPLED AT STA. 35+00

PLANS PREPARED BY:

CEWALT HAMILTON

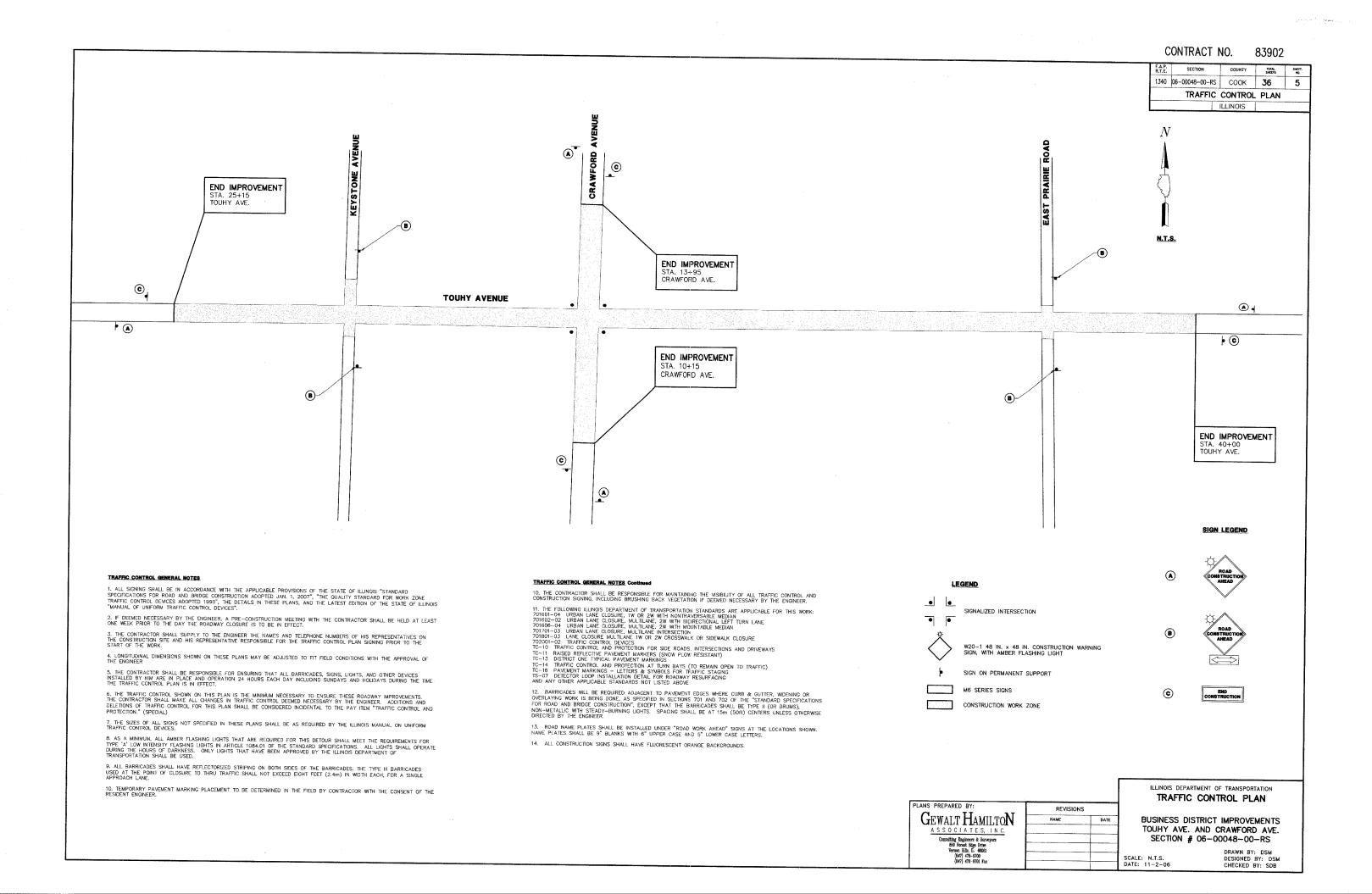
ASSOCIATES, INC.

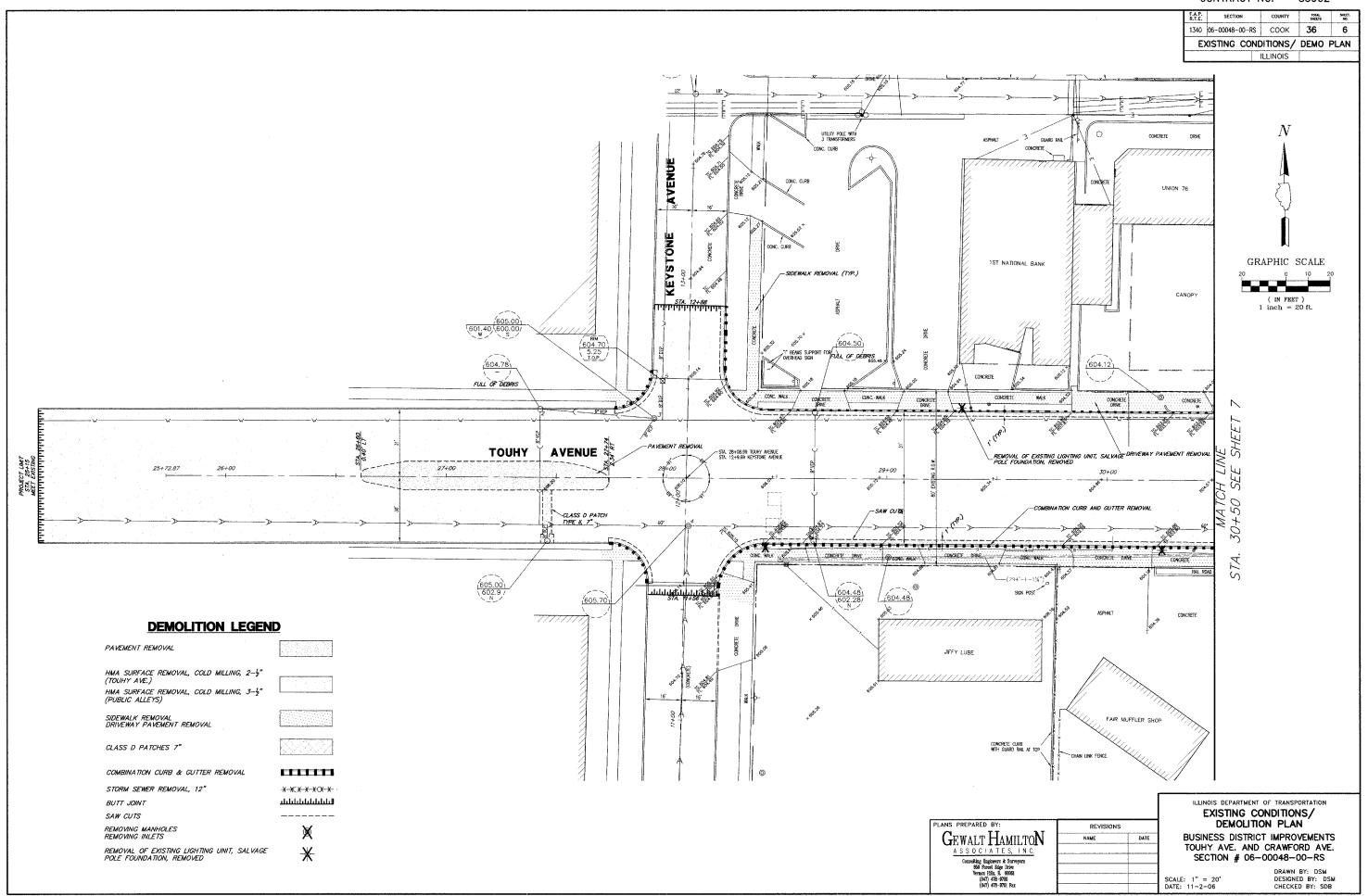
Consulting Engineers & Surveyors
600 Forcet Edge Drive
lement Hills, IL 80861
(847) 478-9701 Fax

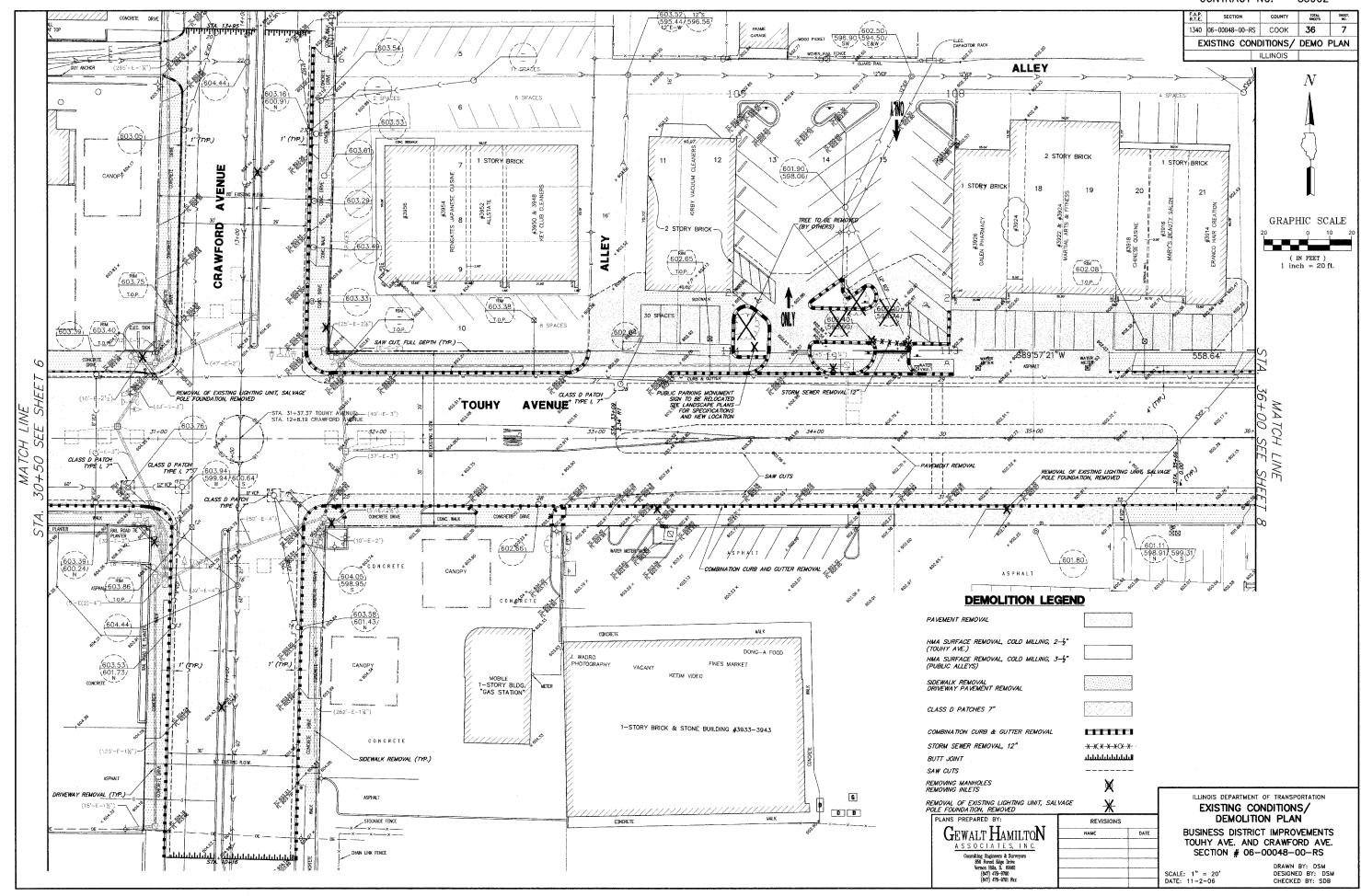
TYPICAL CROSS SECTIONS

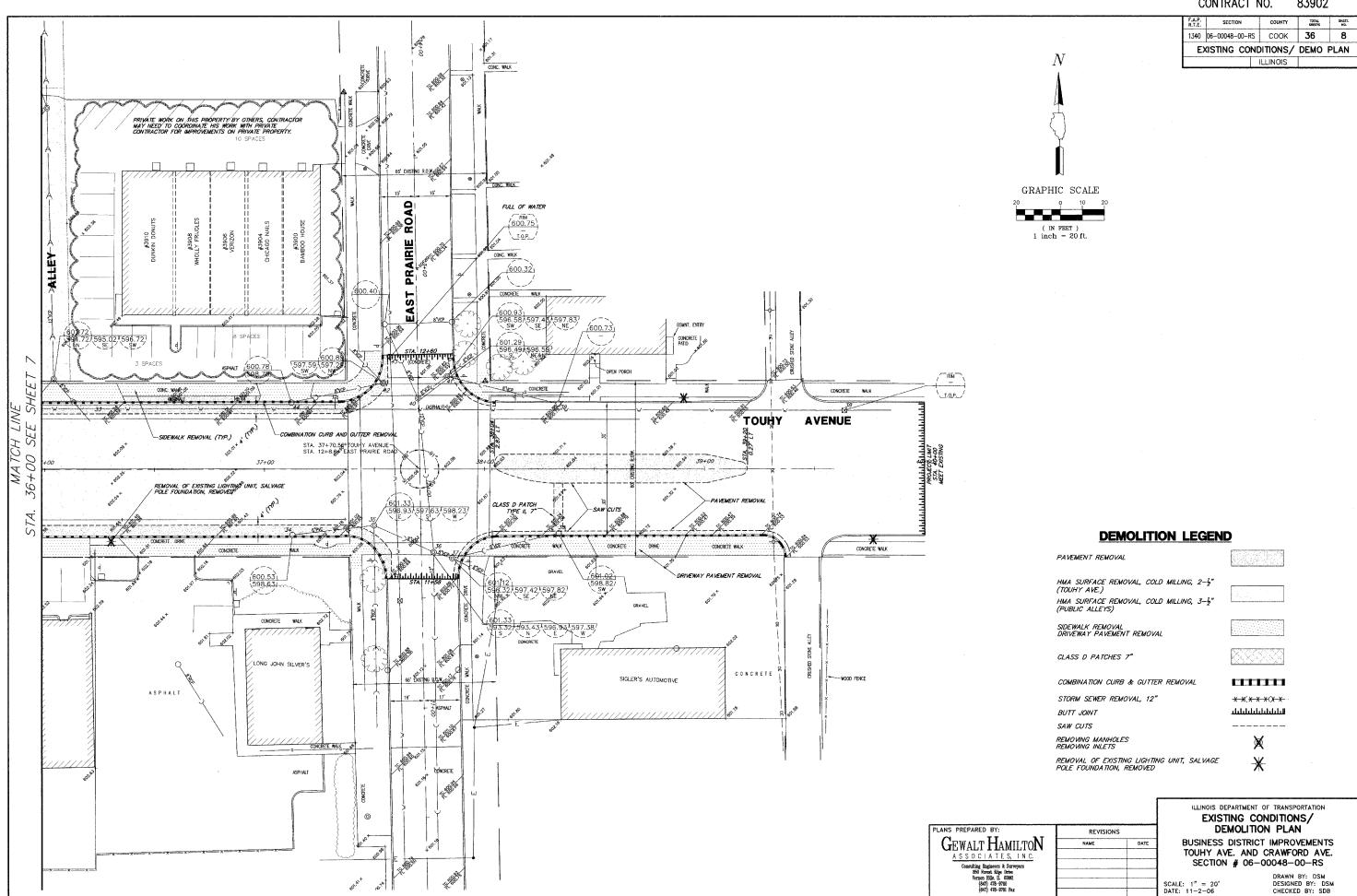
BUSINESS DISTRICT IMPROVEMENTS TOUHY AVE. AND CRAWFORD AVE. SECTION # 06-00048-00-RS

SCALE: N.T.S. DATE: 11-2-06 DRAWN BY: DSM DESIGNED BY: DSM CHECKED BY: SDB

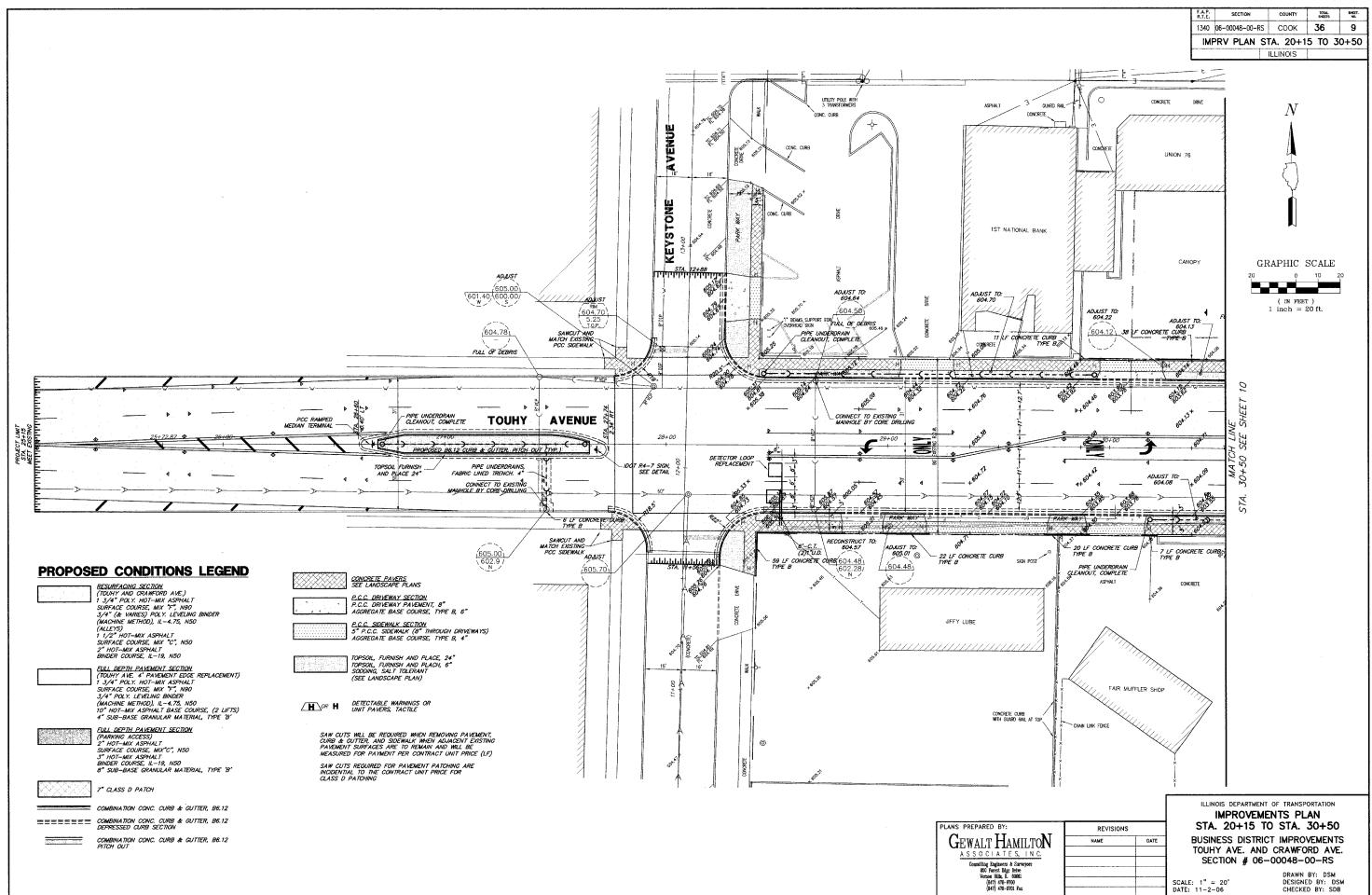


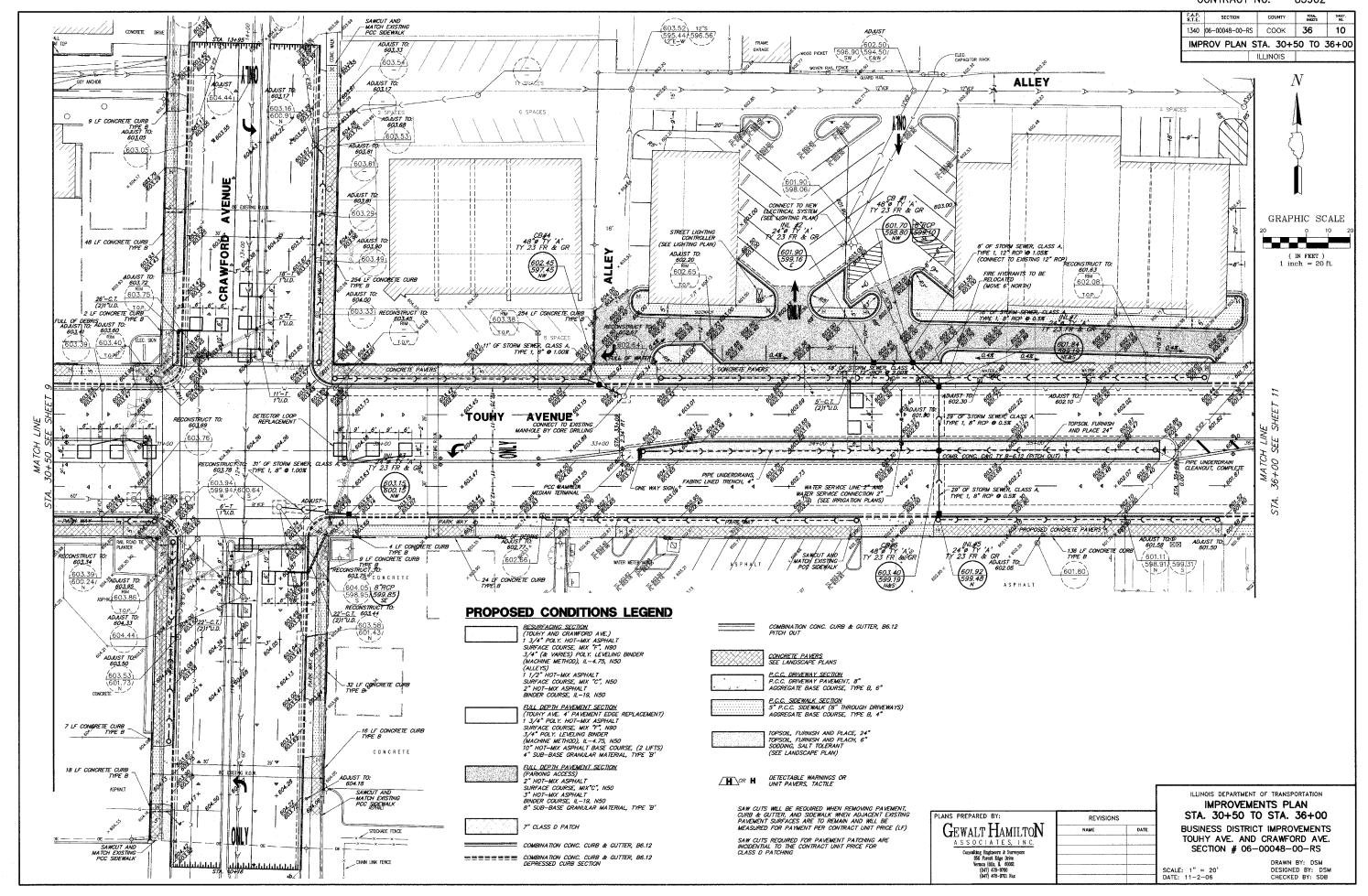






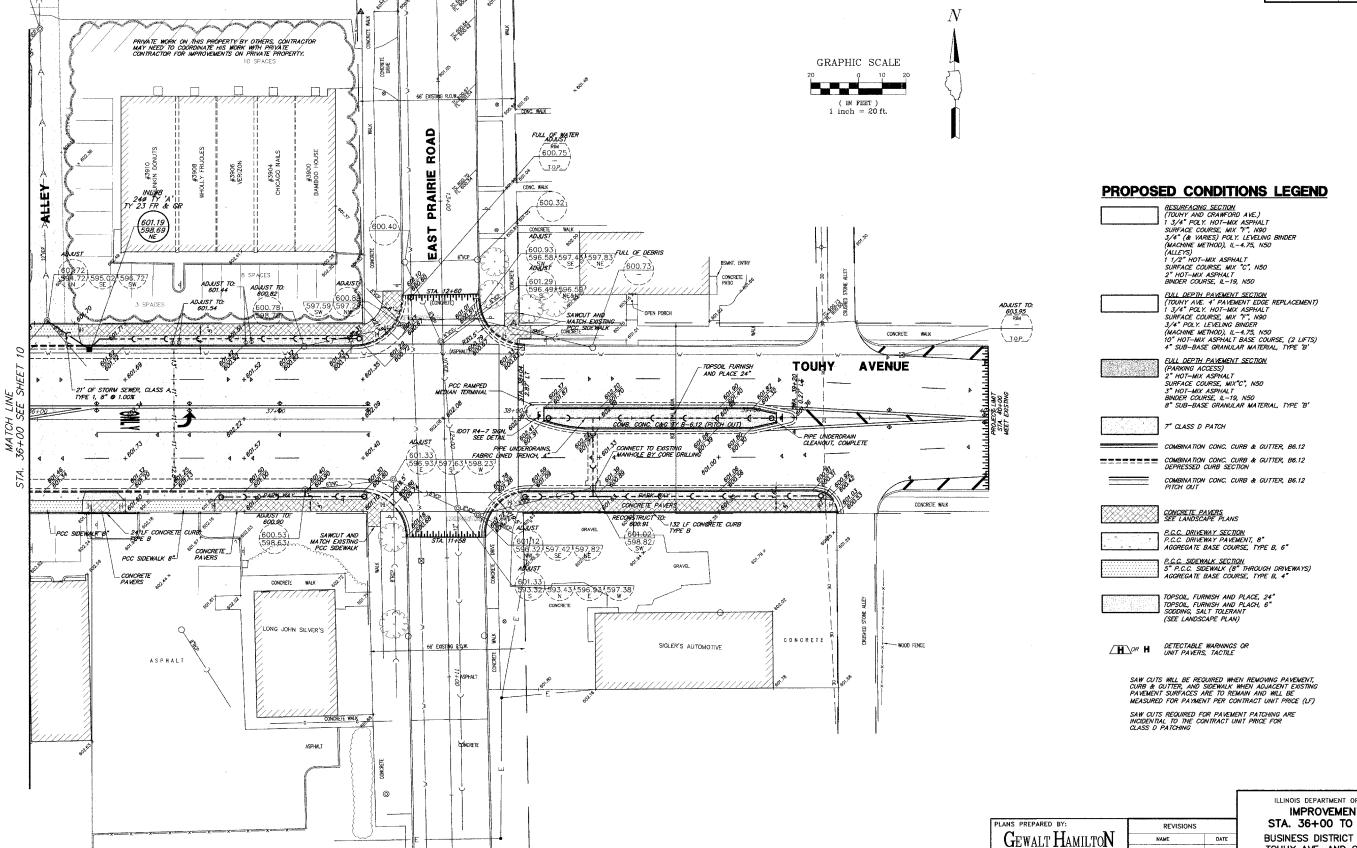
CONTRACT NO. 83902 TOTAL SHEET. SHEETS NO. 1340 06-00048-00-RS COOK 36 9 IMPRV PLAN STA. 20+15 TO 30+50 ILLINOIS NUNION 76 CANOPY GRAPHIC SCALE (IN FEET) 1 inch = 20 ft. ADJUST TO: 7 LF CONCRETE CURB CONCRETE ILLINOIS DEPARTMENT OF TRANSPORTATION IMPROVEMENTS PLAN STA. 20+15 TO STA. 30+50 BUSINESS DISTRICT IMPROVEMENTS DATE TOUHY AVE. AND CRAWFORD AVE. SECTION # 06-00048-00-RS





83902

SECTION COUNTY TOTAL SHEETS 1340 06-00048-00-RS COOK 36 IMPRV PLAN STA. 36+00 TO 40+00 ILLINOIS

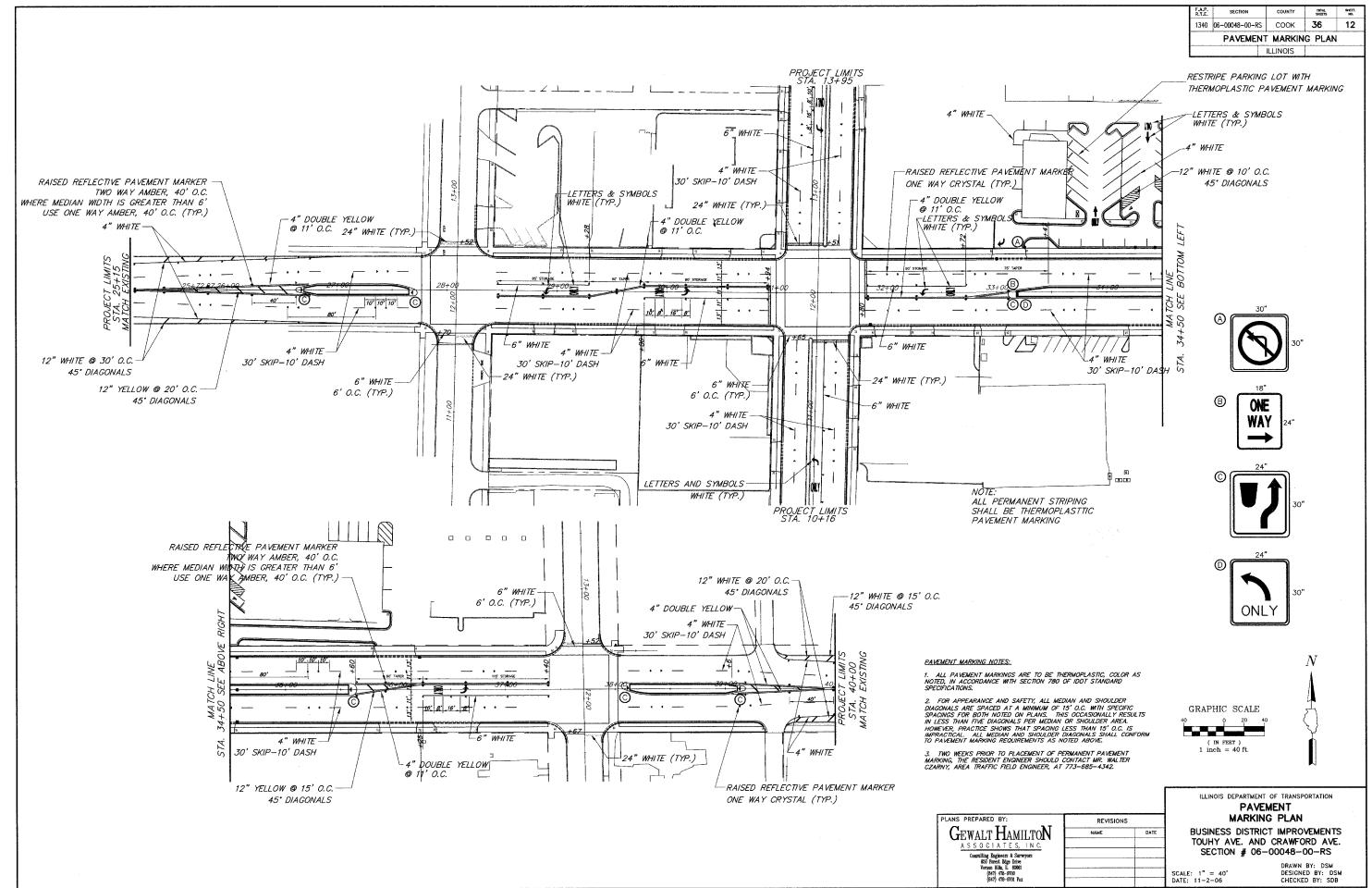


ILLINOIS DEPARTMENT OF TRANSPORTATION IMPROVEMENTS PLAN STA. 36+00 TO STA. 40+00 BUSINESS DISTRICT IMPROVEMENTS TOUHY AVE. AND CRAWFORD AVE. SECTION # 06-00048-00-RS

SCALE: 1" = 20'

Consulting Engineers & Surveyors 850 Forest Edge Drive Vernon Hills, H. 60061 (847) 478-9700 (847) 478-9701 Fax

DRAWN BY: DSM DESIGNED BY: DSM CHECKED BY: SDB



COUNTY

DETAILS

ILLINOIS

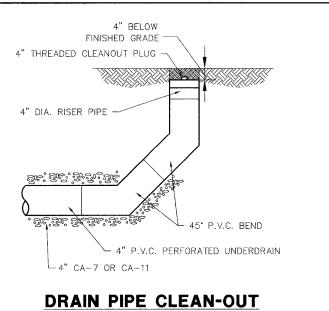
TOTAL SHEETS

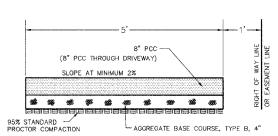
36

13

SECTION

1340 06-00048-00-RS COOK





NOTE.

- SET 3/4" EXPANSION JOINTS AT POINTS ABUTTING CURB OR PAVEMENT AND AT 45" MAX. INTERVALS.
- CONTROL JOINTS SHALL BE 1/8" TO 1/4" WIDE AND 1/4 OF THE SIDEWALK THICKNESS DEEP. THE EDGE OF THE CONTROL JOINTS SHALL BE GIVEN A 1/4" RADIUS.
- TWO #5 DEFORMED STEEL BARS SHALL BE INSTALLED IN THE SIDEWALK CENTERED OVER ALL TRENCH CROSSINGS. THEY SHALL EXTEND 10 FEET BEYOND THE EDGES OF THE TRENCH.

PCC SIDEWALK 8"

#4 DEFORMED TIE BARS © 24" O.C. WHITE EPOXY JOINT FILLER

#4 DOWEL BARS © 24" O.C. (EXPANSION JOINT)

5" PCC SIDEWALK

SLOPE AT MINIMUM 2%
OR AS SHOWN ON PLANS

OR AS SHOWN ON PLANS

PCC CURB

PROCTOR COMPACTION

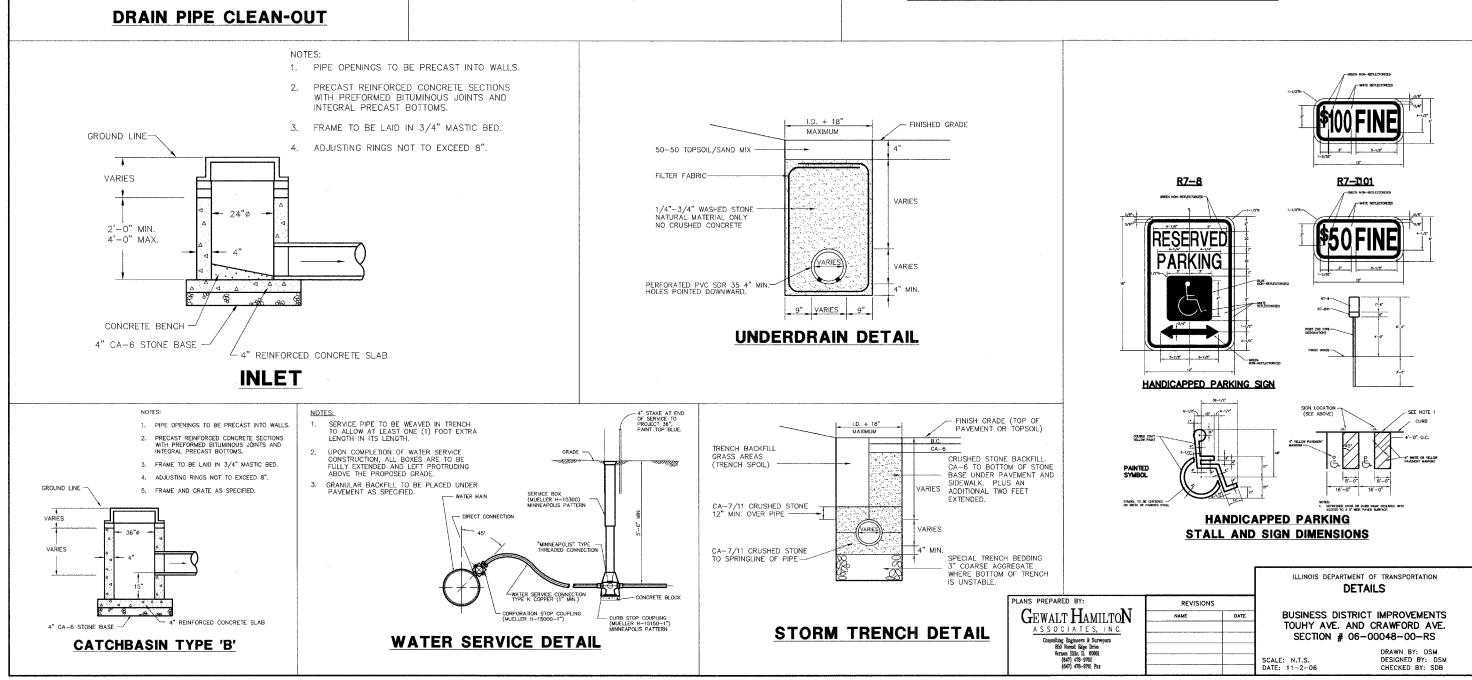
AGGREGATE BASE COURSE, TYPE B, 4"

 SET 3/4" WHITE EPOXY EXPANSION JOINTS AT POINTS ABUTTING CURB OR PAYEMENT AND AT 60' MAX. INTERVALS.

 CONTROL JOINTS SHALL BE 1/8" TO 1/4" WIDE AND 1/4 OF THE SIDEWALK THICKNESS DEEP. THE EDGE OF THE CONTROL JOINTS SHALL BE GIVEN A 1/4" RADIUS.

- 3. SIDEWALK WIDTH AS SHOWN ON PLANS.
- 3. ALL STEEL BARS SHOWN ARE EPOXY COATED

PCC SIDEWALK 5" (ADJACENT TO BUILDINGS)



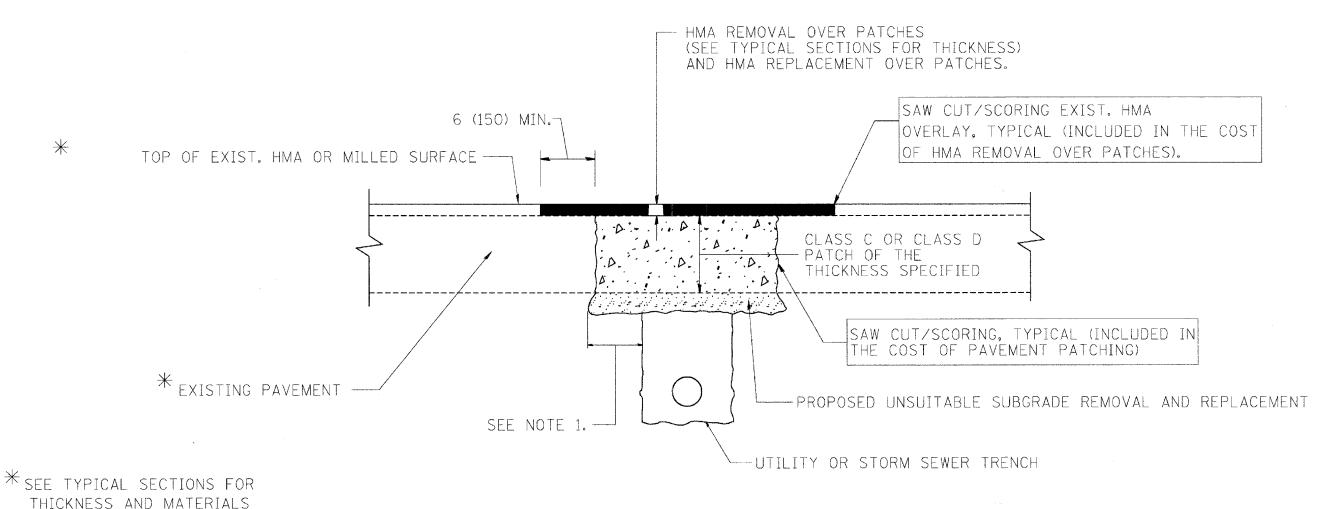
CONTRACT NO. 30 31

RTE. SECTION COUNTY TOTAL SHEETS NO.

1340 06-00048-00-RS COOK 36 14

STA. TO STA.

FED. ROND DIST. NO. I ILLINOIS FED. AID PROJECT



NOTES:

- 1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
- 2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION

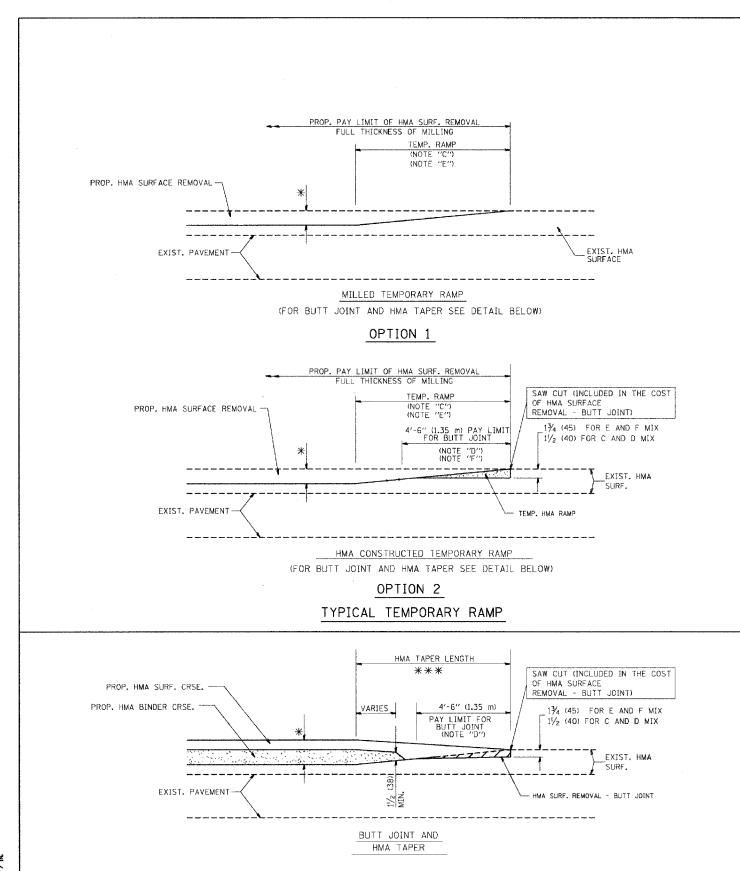
- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE FULL DEPTH PATCHES
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS

REVISION	ONS	ILLINOIS DEPARTMENT	OF TRANSPORTATION
NAME	DATE	ILLINOIS DE ANTIQUA	OF TRANSFORTATION
R. SHAH	10/25/94		
R. SHAH	01/14/95		
R. SHAH	03/23/95	PAVEMENT PA	ATCHING FOR
R. SHAH	04/24/95	HMA SUF	
A. HOUSEH	03/15/96		
A. ABBAS	03/21/97	PAVEN	MENT
A. ABBAS	01/20/98		•
ART ABBAS	04/27/98	CCALE, VERT. NONE	DDAWN DV
R, BORO	01/01/07	SCALE: VERT. NONE	DRAWN BY
		PLOT DATE: 10/31/2006	CHECKED BY

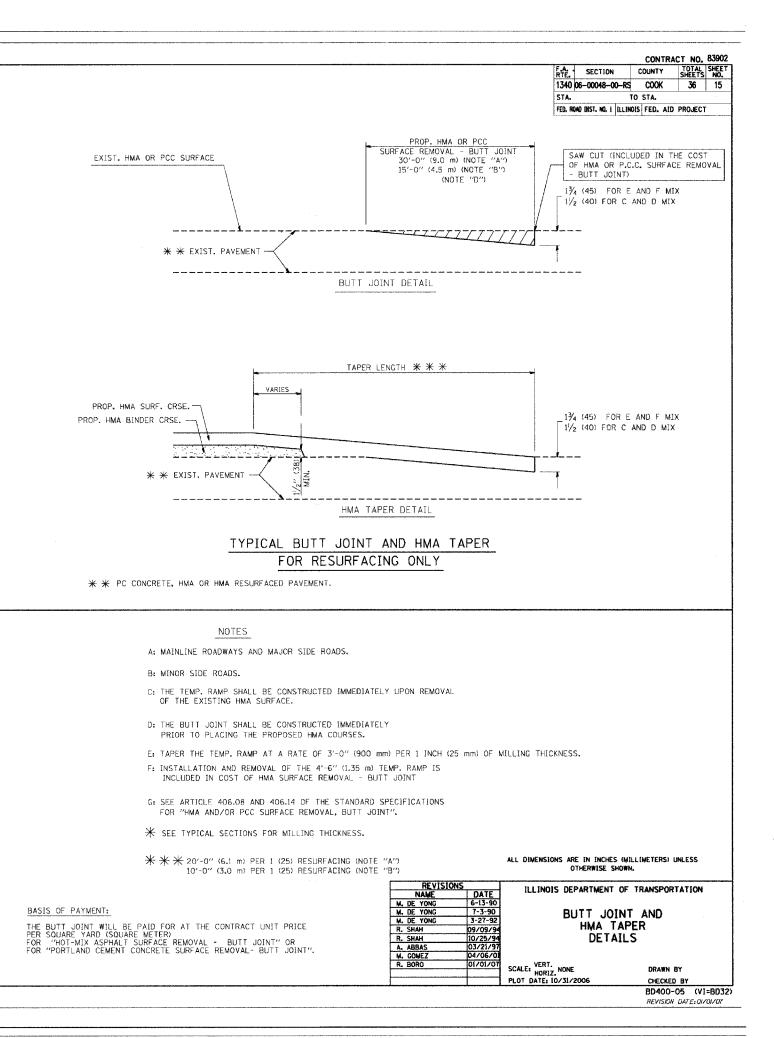
DATE = (8/3)/20 NAME = Ki\dista SCALE = 58.889 '

BD400-04 (BD



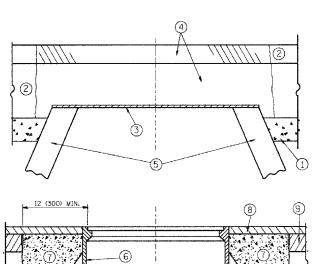
TYPICAL BUTT JOINT AND HMA TAPER

FOR MILLING AND RESURFACING



CONTRACT NO. 83902

 F.A.		SECT	ION		C	OUNT:	Y	TOT/ SHEE	AL TS	SHEET NO.
1340	06-	0004	8-0	0-RS		COO	<	36		16
STA.				1	O	STA.				
FED. R	QAD D	IST. N	Q. I	ILLIN	OIS	FED.	AID	PROJE	СТ	



PROPOSED

_PROPOSED

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

NOTES:

BRICK, MORTAR, OR CONC.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 11/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS SI CONCRETE, OR HMA SURFACE COURSE OR HMA BINDER COURSE TO THE LEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS,

LEGEND

- SUB-BASE GRANULAR
 MATERIAL
 - 6 FRAME AND LID (SEE NOTES)
- 2 EXISTING PAVEMENT
- (7) CLASS SI CONCRETE, HMA SURFACE COURSE OR HMA BINDER COURSE
- 3 36 (900) DIAMETER METAL PLATE PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- 8 PROPOSED HMA SURFACE COURSE
- 5 EXISTING STRUCTURE
- 9 PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK. THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL"

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT

WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS

NAME	DATE
	DAIL
R. SHAH	10/25/94
R. SHAH	01/30/95
R, SHAH	03/10/95
A. ABBAS	03/21/97
R. WIEDEMAN	05/14/04
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION DETAILS FOR

FRAMES AND LIDS ADJUSTMENT WITH MILLING

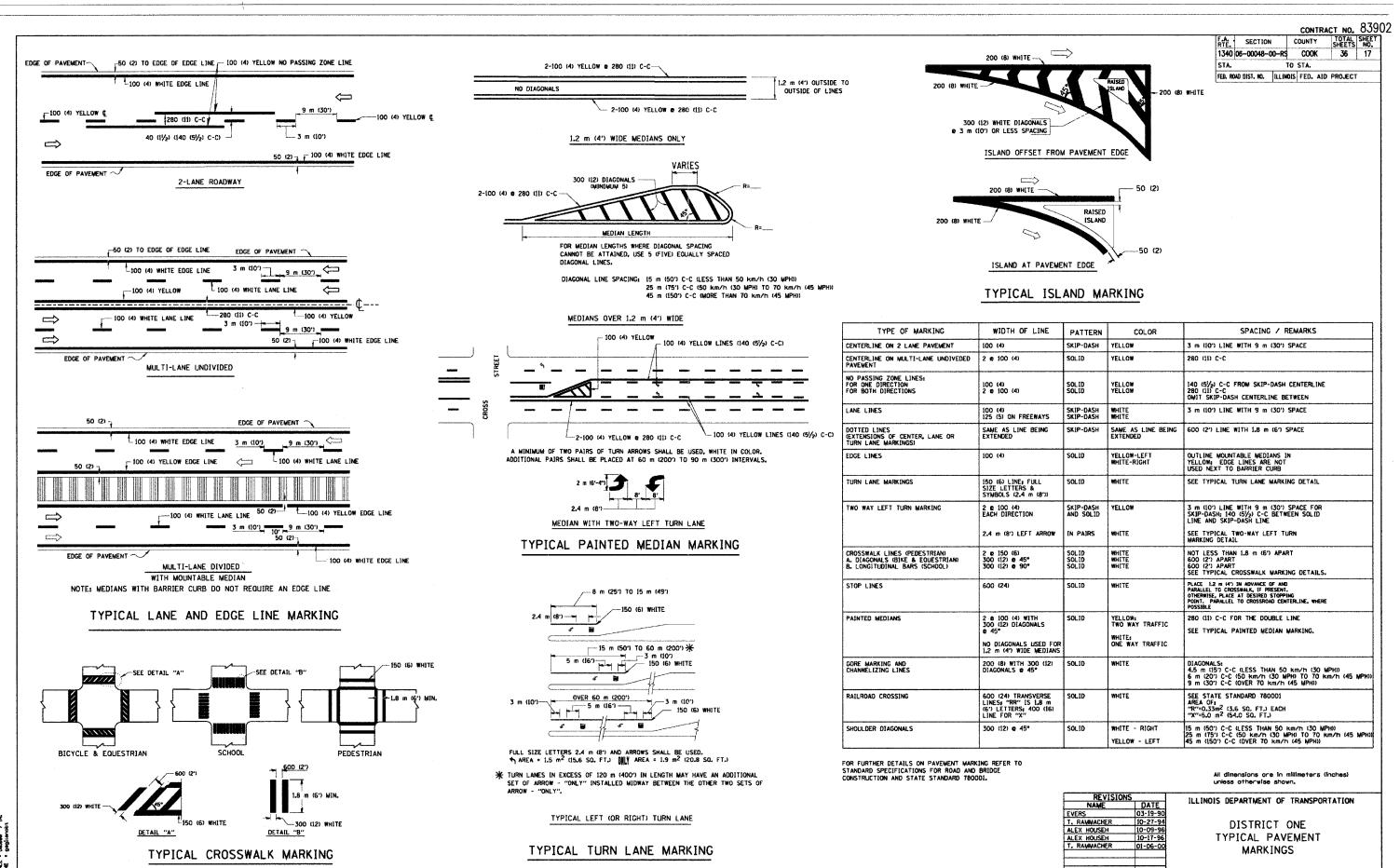
SCALE: VERT. NONE HORIZ. PLOT DATE: 10/31/2006

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BD600-03 (BD-8)

DATE NAME SCALE NAME

REVISION DATE: 01/01/07



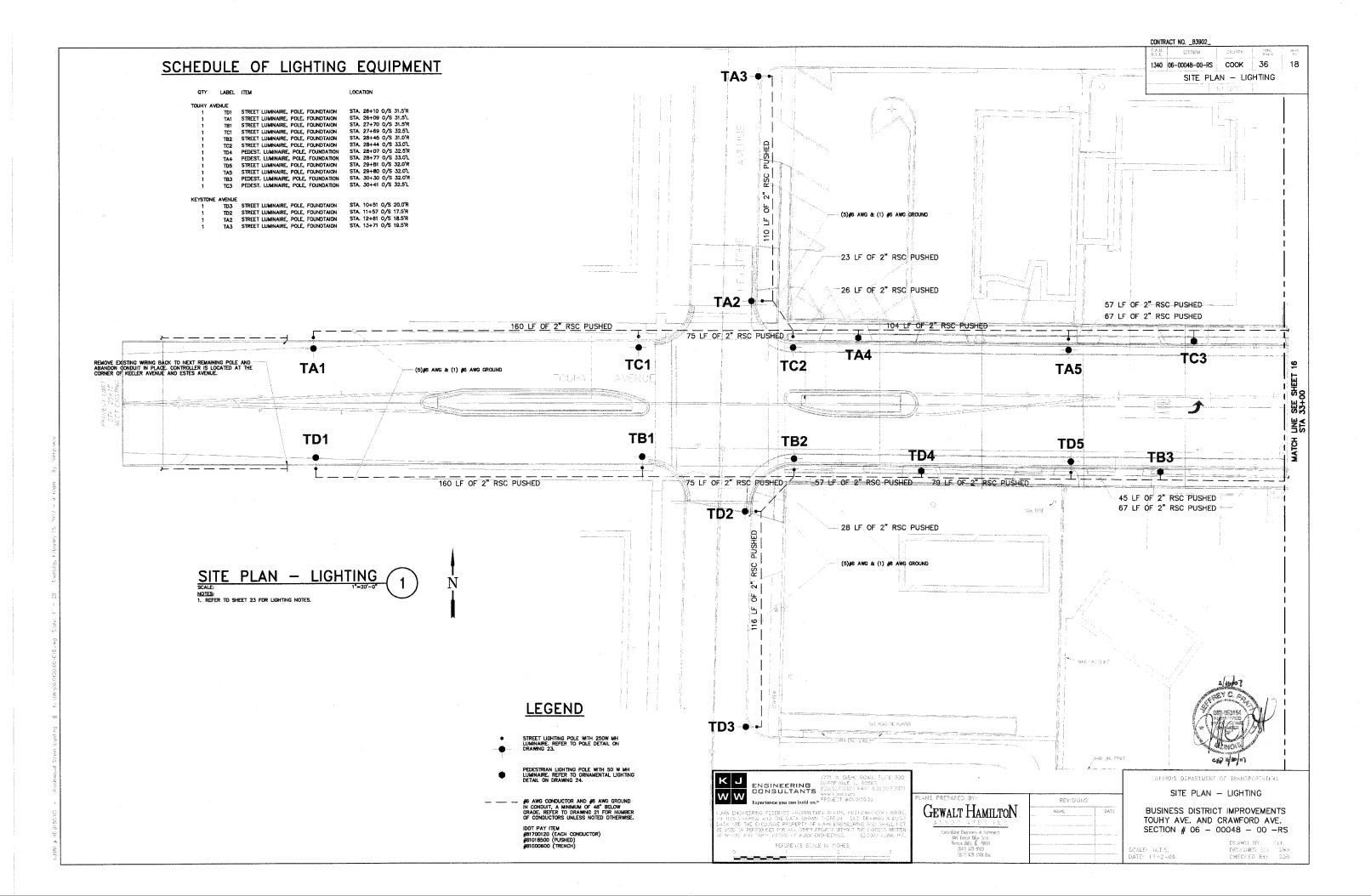
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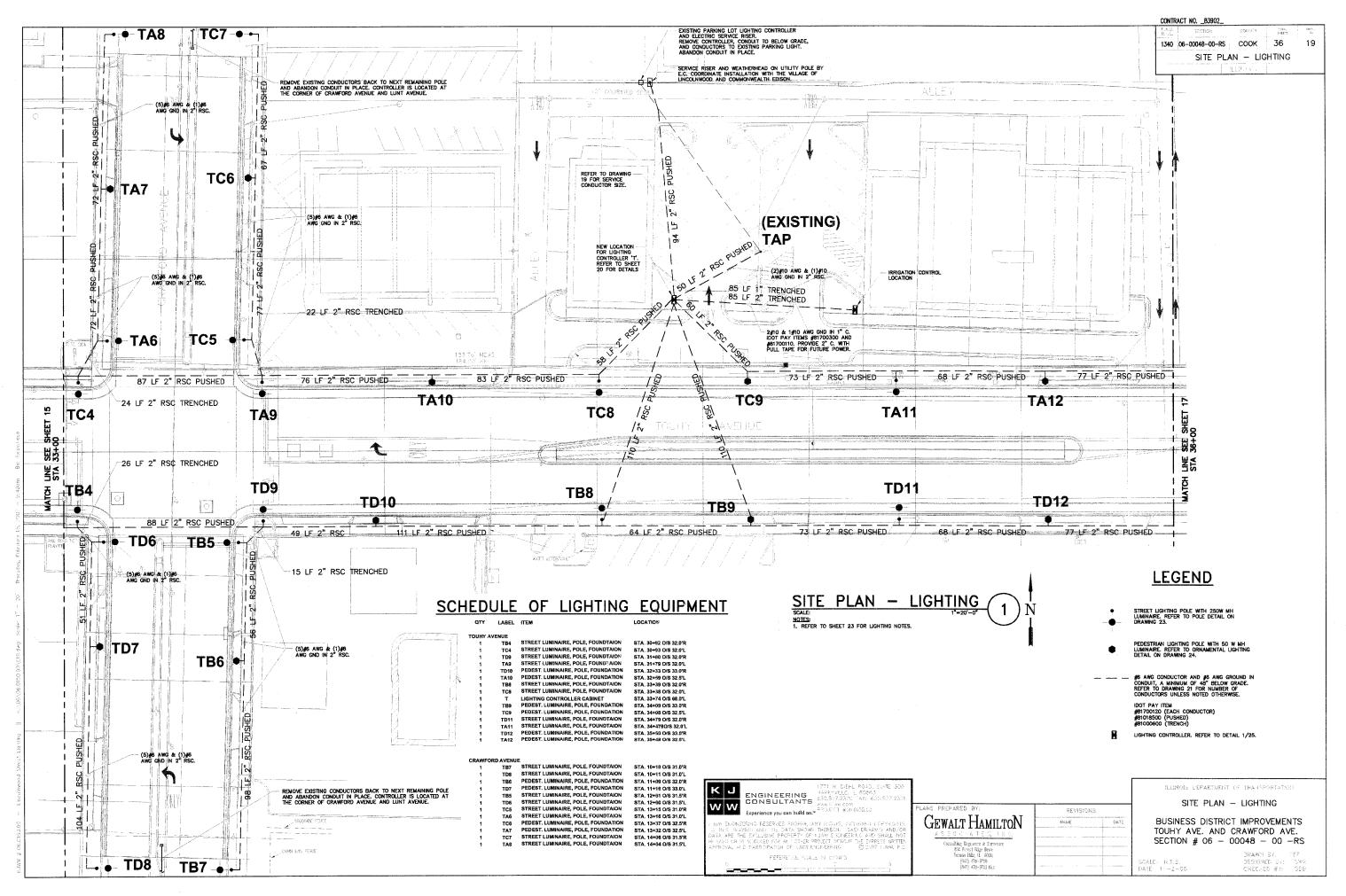
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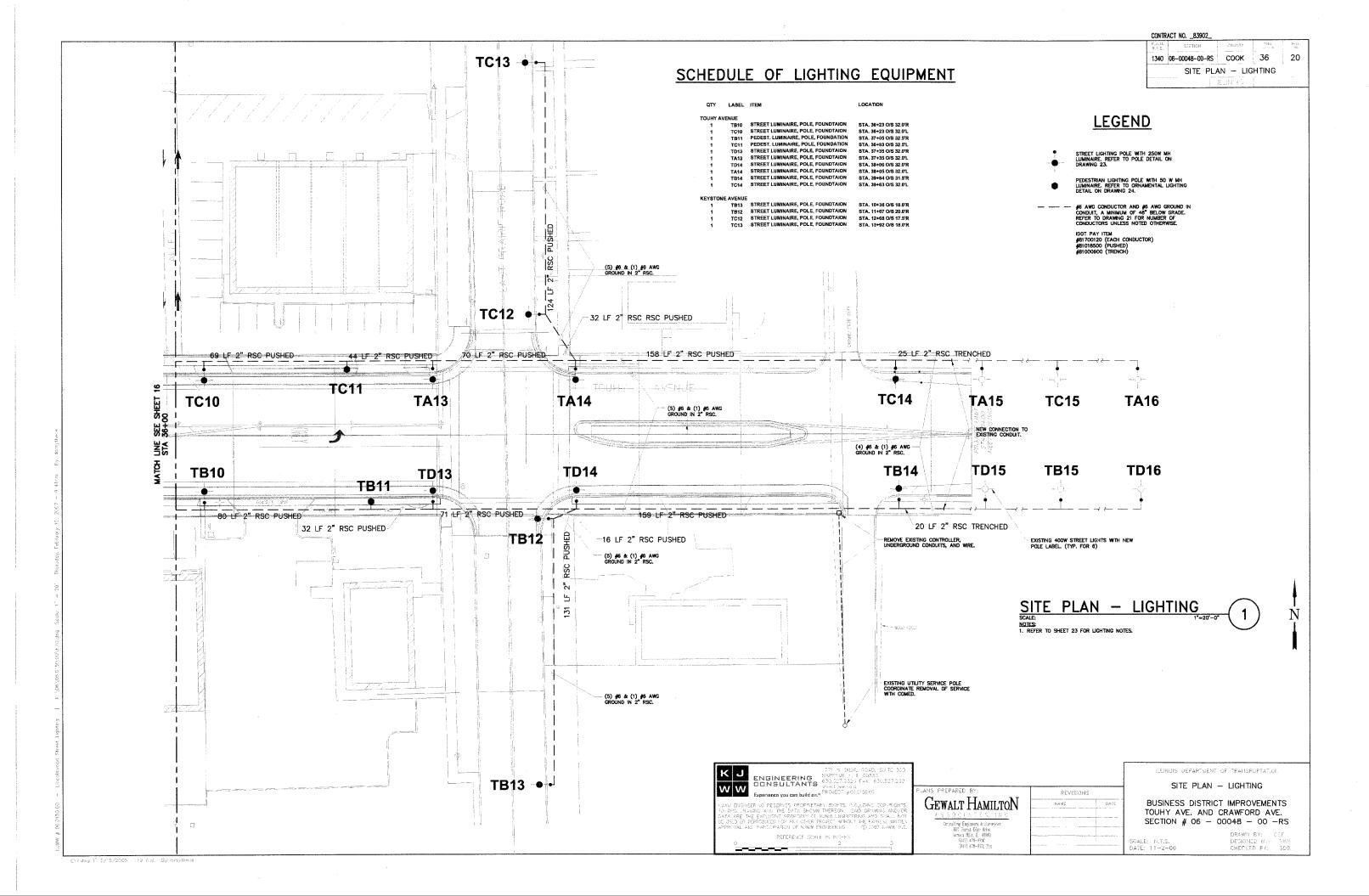
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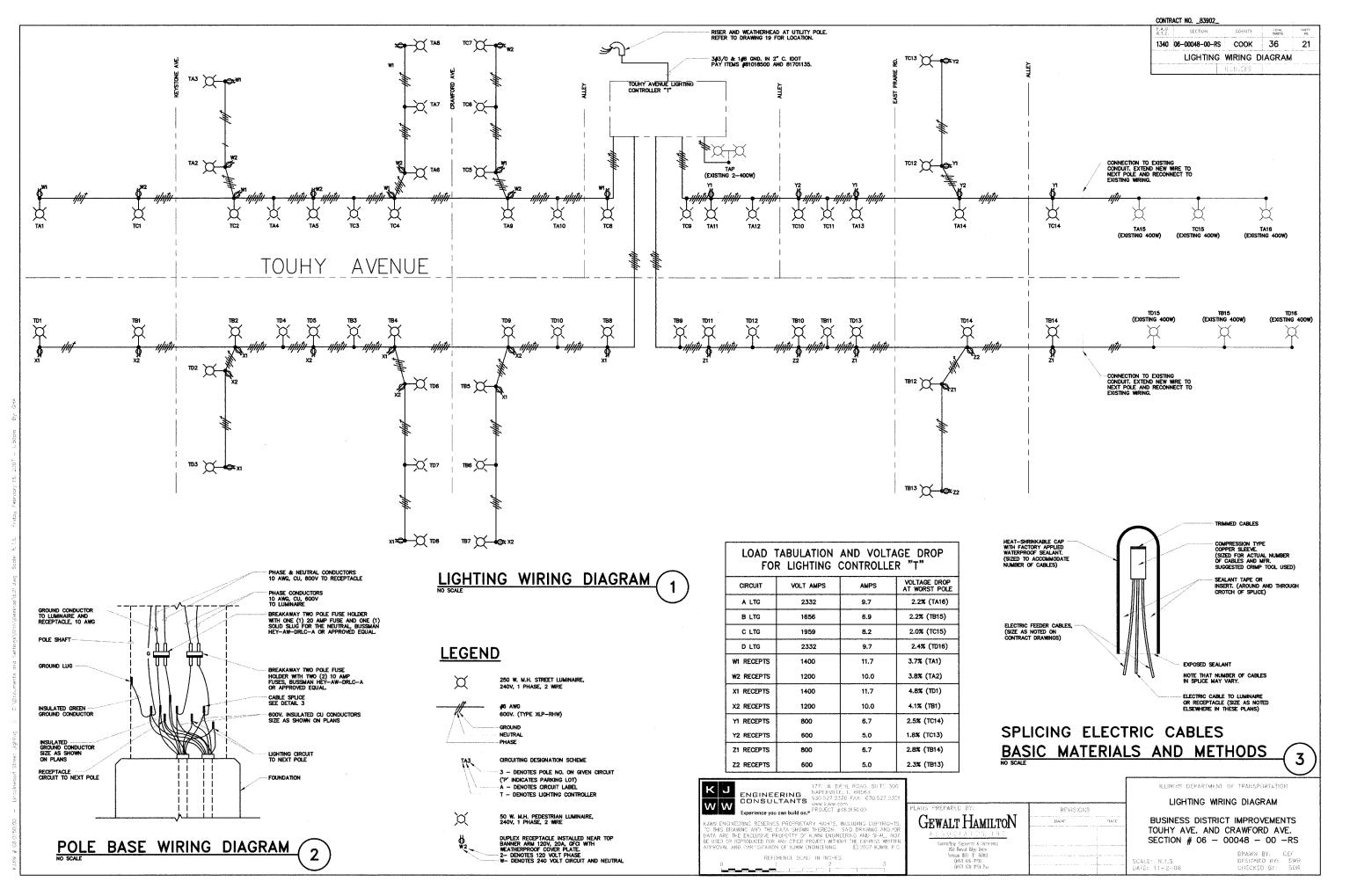
TC-13

PLOT DATE = 2/15/2086 FILE MARE = oxyrespects distately tal3,dgn PLOT SCALE = 06,880 // 1M, USER MAME = 9,09,1 annote.







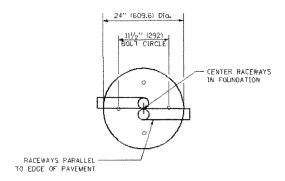


1340 06-00048-00-RS COOK 36

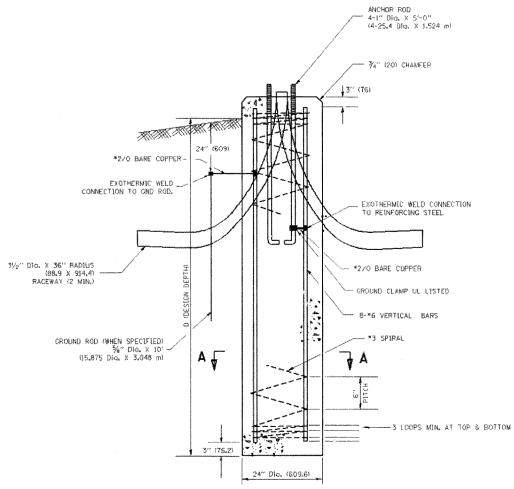
LIGHTING DETAILS & NOTES

22

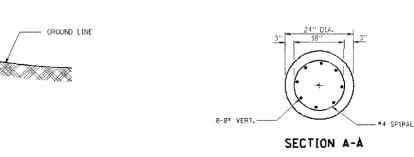
CAN PAUNITIANS	DESIGN DEFTH "D" OF FOUNDATION				
SDIL CONDITIONS	SINGLE ARM POLE	TWIN ARM POLE			
SOFT CLÁY	11'-0''	12'-8"			
I = 0,375 TON/SO, FT.	(3.35)	(3.85M)			
WEDIUM CLÂY	9′-0′′	141-1011			
HU = 0.75 TON/SOJFT	(2.74M)	(4.52M)			
STIFF CLÁY u = 1.50 TON/SO. FT.	1°-6"	8"-7" (2.61M)			
LODSE SÁND	9'-6''	10'-7"			
Ø = 34*	(2.90M)	(3.22M)			
WEDJUM SÅND	9′-0″	9'-10"			
Ø = 37.5°	(2,74M)	(2 . 99M)			
DENSE SÁND	8'-3''	9'-7"			
Ø = 40*	(2.51M)	(2 . 91M)			



TOP VIEW



FOUNDATION DETAIL





REFERENCE SCALE IN HOMES

NOTES

- 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IN PLACED.
- 3. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 4 IN. (100MM) ABOVE THE FINISHED CRADE WITHIN A 60 IN, 0.5M) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED. IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED,
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL, A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION, FOUNDATION TOP SHALL BE CHAMFERED %-IN. (20MM).
- 6. THE CONCRETE SHALL BE CLASS SL. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13
- 7. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE
- 8. THE ANCHOR RODS SHALL BE ACCORDENG TO ASTM F1954 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- 9. ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 288. CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UMIG MILS) OR THE ELECTROLYTIC
- 10. THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 MM) WITH A MINIMUM OF 3 INCHES (75 MM) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- 11. ANCHOR RODS SHALL PROJECT 23/2" (69.9MM) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- 12. THE CONTRACTOR SHALL USE A *3 SPIRAL AT 6" (152.4MM) PITCH OR MAY SUBSTITUTE *3 TIES AT 12" (304.8MM) O.C. WITH THE APPROVAL OF THE ENGINEER.
- 13. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.

REVISIONS

GEWALT HAMILTON

14. THE RACEWAYS SHALL PROJECT I" (25.4MM) ABOVE THE TOP OF THE FOUNDATION.

IDOT PAY ITEM #83600200

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS & NOTES

BUSINESS DISTRICT IMPROVEMENTS TOUHY AVE. AND CRAWFORD AVE. SECTION # 06 - 00048 - 00 -RS

DRAWN BUT OFF

E19.dwg 1" 11/17/2006 11:25 AML By pracijo

THREADED

5% T. X 4" DIA-WASHER, TACK WELDED

6" (152.4)

01Å.

5" (127.0)

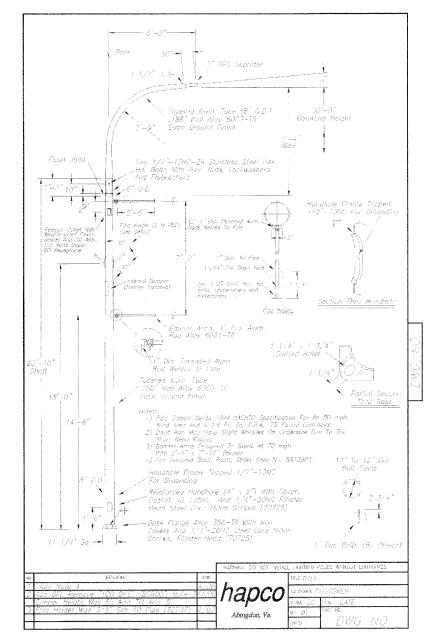
TOP OF ANCHOR ROD

4" (100) MAX.

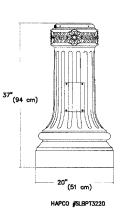
ANCHOR BOLT DETAIL

-- 60" (1500) ...

FOUNDATION EXTENSION DETAIL



IDOT PAY ITEM #XX001136



IDOT PAY ITEM #XX001136

LIGHTING NOTES

- 1. THE OWNER OF THE PROPOSED ROADWAY LIGHTING SYSTEM SHALL BE THE CITY OF LINCOLNWOOD.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLES AND THE LIGHTING CONTROLLER FOR EXAMINATION AND CONFIRMATION WITH THE ENGINEER AT THE PRECONSTRUCTION INSPECTION. THE EXACT LOCATIONS OF ALL ITEMS SHALL BE CONFIRMED WITH THE ENGINEER PRIOR TO STARTING WORK.
- 3. THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR GROUNDING, GROUNDING CONNECTIONS AT THE FOUNDATION SHALL BE EXCITHERMICALLY WELDED, AS SPECIFIED, AND SHALL BE INSPECITED AND APPROVED BY THE RESIDENT ENGINEER PRIOR TO POURING CONCRETE OR BACKFILLING, AS APPLICABLE.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE. THE ENGINEER MAY ASSIST THE CONTRACTOR AS APPLICABLE, BUT THE RESPONSIBILITY FOR COORDINATING FINISHED GRADE ELEVATION WITH THE TOP OF THE FOUNDATION HEIGHTS SHALL REMAIN WITH THE CONTRACTOR.
- ALL LIGHT POLES SHALL BE LOCATED WITHIN THE CORRECT SET BACK IDOT REQUIREMENTS FROM THE BACK OF CURB TO THE FACE OF THE PROPOSED LIGHT POLE.
- 6. NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, AS APPROVED BY THE ENGINEER.
- TO MAINTAIN THE STRUCTURAL INTEGRITY OF POLES WITH MAST ARMS, THEY SHALL NOT BE ERECTED AND LEFT TO STAND WITHOUT LUMINIANES. NOTE THAT THE PROPOSED LIGHT POLES WILL NOT BE CONSIDERED COMPLETE WITHOUT THE LUMINIANES INSTALLED.
- 8. UNLESS OTHERWISE NOTED, ALL CONDUIT PROVIDED BY THIS CONTRACT SHALL BE RIGID CALVANIZED STEEL CONDUIT (RSC) CONFORMING TO IDOT SSRB SECTION 1085.15 (a)
- UNLESS OTHERWISE NOTED, ALL CONVENTIONAL POLES SHALL BE FRANGIBLE WITH BREAKAWAY COUPLINGS AS SPECIFIED.
- THE CONTRACTOR SHALL MAKE NOTE OF THE SPECIAL CONTROL CABINET, AUXILIARY CABINET AND LIGHTING UNIT IDENTIFICATION REQUIREMENTS NOTED ON THE DRAWINGS.
- ALL WIRING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE. PARTICULAR ATTENTION IS DIRECTED TO THE REQUIREMENTS FOR ELECTRIC SERVICE, GROUNDING, AND OVERCURRENT PROTECTION.
- 12. THE ELECTRICAL SUPPLY SHALL BE A PROPERLY GROUNDED AC SYSTEM. DC SERIES WIRING WILL NOT BE PERMITTED.
- 13. THE AC SYSTEM SHALL BE PROPERLY GROUNDED AT THE ASSOCIATED SERVICE DISCONNECTING MEANS. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXTENDED CONTINUOUS WITH ALL CIRCUIT WRING AND SHALL BE BONDED TO THE SYSTEM GROUND AT THE SERVICE DISCONNECTING MEANS. IT IS RECOMMENDED THAT THE EQUIPMENT GROUNDING CONDUCTOR BE INSULATED. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE AN INTERRAL PART OF ANY MULTI-CONDUCTOR CABLE OR SHALL BE RUN WITH THE CIRCUIT CONDUCTORS IN THE SAME RACEWAY. A SEPARATE GROUNDING CONDUCTOR WILL NOT BE PERMITTED. THE EQUIPMENT GROUNDING CONDUCTOR WILL NOT BE PERMITTED. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE SPLICED AND BONDED VIA A PIGTAIL CONNECTION AT EACH POLE.
- 14. ALL CONDUCTORS AND EQUIPMENT SHALL HAVE PROPER OVERCURRENT PROTECTION, OVERCURRENT PROTECTION SHALL BE PROVIDED FOR EACH LUMINAIRE AND ITS ASSOCIATED BRANCH CIRCUIT EITHER BY THE USE OF MODIVIDUAL POLE BASE FUSING, FUSING WITHIN THE LUMINAIRE, OR OTHER MEANS AS APPROVED BY THE ENGINEER.
- 15. THE ANCHOR BOLTS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORMS
- 16. EXCAVATION FOR THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24 INCHES IN DIAMETER
- 17. ALL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE, THE LATEST EDITION OF THE ILLINOIS BEPT. OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ANY APPLICABLE CODES.
- 18. BEFORE INSTALLING LIGHT STANDARDS NEAR OVERHEAD UTILITIES CALL LOCAL UTILITY FOR LOCATION APPROVAL.
- LOCATION OF CONTROLLER CABINET SHALL BE VERIFIED IN THE FIELD BY THE ENGINEER BEFORE FOUNDATION IS EXCAVATED OR POURED.
- 20. NO MATERIALS SHALL BE DELIVERED TO THE JOB SITE UNTIL ALL PERTINENT EQUIPMENT SUBMITTALS HAVE BEEN APPROVED BY THE ENGINEER.
- 21. CONTRACTOR TO COORDINATE ALL SERVICE CONNECTIONS WITH LOCAL UTILITY COMPANY.
- 22. UPON COMPLETION OF THE PERMANENT LIGHTING SYSTEMS THE CONTRACTOR SHALL SUBMIT IN WEITING A REQUEST FOR PRE-FINAL INSPECTION WITH A MINIMUM OF THREE DAYS NOTICE TO THE CITY OF LINCOLINGOD.
- 23. ALL UNDERGROUND CONDUIT SHALL BE INSTALLED BY DIRECTIONAL BORING UNLESS NOTED OTHERWISE ON THE PLAN SHEETS.
- 24. PROVIDE EACH POLE WITH ALUMINUM BREAK AWAY COUPLINGS, IDOT PAY ITEM #83800700



WY ENGINEER NO PESERVES PROPPETARY RIGHTS, HOLUDING COPEPIDITS THIS ERANGES AND THE EATS SHOWN THEREIGH, SAND DRAWING AND/OR THE ARE THE FOLL SINE PRINCE BY OF MANY ELGINEETING AND SHALL HAT USED OF REPRODUCED THIS ANY OTHER PROJECT OF THOU THE EXPRESS WATTER PROVING AND PARTICIPATOR OF NEW ENGINEERING. \$2,700 NAMES, F.C.

REFERENCE SCALE IN INCHES

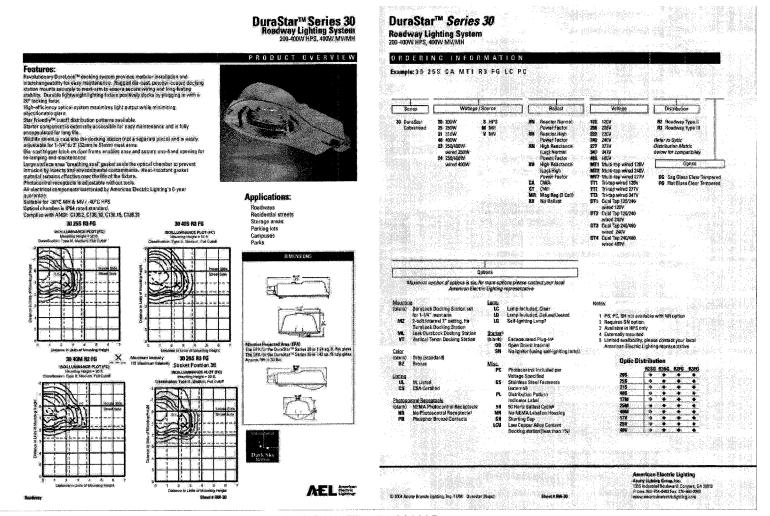
GEWALT HAMILTON Consulting Engineers & Surveyors 250 Forest Edge Detro Vernor Hills, IL 50061 (847) 478-9700 (847) 476-9701 Fax

ILLINOIS DEPARTMENT OF TRANSPORTATION

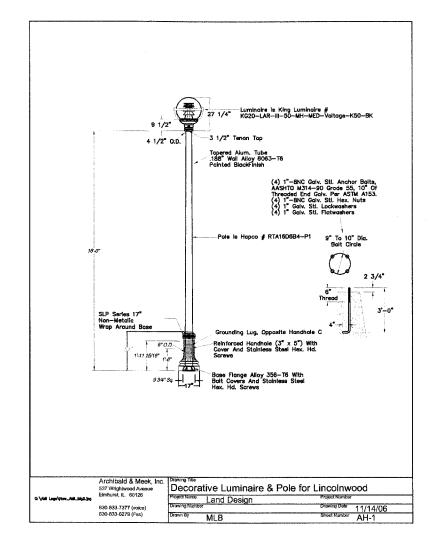
LIGHTING DETAILS & NOTES

BUSINESS DISTRICT IMPROVEMENTS TOUHY AVE. AND CRAWFORD AVE. SECTION # 06 - 00048 - 00 -RS

DRAWN 84: CEF DESIGNED BY: SWR CHECKED BY: SDR



IDOT PAY ITEM #XX006697



IDOT PAY ITEM #X0321766
ALTERNATE BID: SIMILAR TO THE ABOVE
FROM SUN VALLEY: #7-1035T-16FT-PT27/RCGN22-CA-OPT-050MH-MT-PT-BKM
OR APPROVED EQUAL FROM ANOTHER MANUFACTURER.



IS PREPARED BY:	REVISIONS		
GEWALT HAMILTON	NAWE.	STAO	
ASSOC ATES, IAC.			
Consulting Daglowers & Surveyors 200 Forest Edge Brove			
Vernon Eills, ⊈ 60981 (842) 475–9700			
(847) 475-97C1 Tex			

ELLINOIS DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS & NOTES

BUSINESS DISTRICT IMPROVEMENTS TOUHY AVE. AND CRAWFORD AVE. SECTION # 06 - 00048 - 00 -RS

DRAWN BY: CEF
CALE: HUTS. DECIGNED BY: SWR
CYET 11-2-06 CHECKED BY: SDE

CONTROLLER ELECTRICAL NOTES:

- 1. ALL CONTROL CABINET ITEMS SHALL HAVE SUITABLE IDENTIFICATION. OPEN CIRCUIT BREAKERS, CONTACTORS AND OTHER OPEN DEWICES SHALL HAVE PERMANENT SELF STICKING TAGS. DEWICES IN ENCLOSURES SHALL HAVE ENGRAVED 2-COLOR LAMINATED PLASTIC NAMPPLATES ATTACHED TO ENCLOSURES WITH SCEWS. MAMEPLATES SHALL BE ENGRAVED TO CORRESPOND TO DESIGNATIONS ON THE DRAWINGS. INSTERNAL CABINET WIRING SHALL BE IDENTIFIED AS INDICATED OR AS DIRECTED BY THE ENGINEER BY MEANS OF SELF-STICKING TAGS APPLIED AT EACH CONNECTED END. IDENTIFICATION SHALL BE MADE BY THE CABINET MANUFACTURER.
- CABINET SHALL BE FABRICATED FROM 3.175 (0.125-INCH) SHEET ALUMINUM # 3003H14, FORMED AND ARC WELDED ASSEMBLY.
- ALL SCREWS AND HARDWARE SHALL BE PLATED, GALVANIZED, OR MADE OF BRASS, ALUMINUM OR STAINLESS STEEL
- ONE INCH THICK POLYISOCYANURATE INSULATION SHALL BE INSTALLED AND PERMANENTLY CEMENTED ON ALL SIDES OF THE CABINET AND DOORS.
- ELECTRIC UTILITY METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET AS SHOWN ON THE PANEL LAYOUT DIAGRAM.
- THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL". ASSEMBLED PANEL SHALL BE IDOT APPROVED.
- METAL MOUNTING PANEL SHALL BE #10 GUAGE GALVANIZED SHEET STEEL FLANGED BACK 0.75-INCHES I.D. ON 4 SIDES.
- 8. CIRCUIT BREAKERS AND CONTACTORS AND OTHER COMPONENTS SHALL BE MOUNTED ON 3.175 (0.125-INCH) THICK GLASTIC INSULATION BACK PANEL.
- 9. ALL DEVICES SHALL BE FRONT REMOVEABLE.
- Bus bars shall have 22 lug terminals sized to accomposite required wire sizes. Neutral bus shall be painted white, ground bus shall be painted green.
- 11. ALL LUGS SHALL BE OF COPPER SCREWS AND CONNECTORS, SPRING HELD.
- 12. ALL WIRING TERMINATIONS SHALL BE RATED NOT LESS THAN 75 DEGREE CENTIGRADE.
- 13. ALL CONTROL WIRING SHALL BE 600V MACHINE TOOL WIRE TYPE MTW.
- 14. ALL POWER WIRING SHALL BE 600V TYPE RHH/RHW.
- 15. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED USING THESE ABREVIATIONS:
 - R RED Y YELLOW
 B BLACK W WHITE
 BL BLUE G GREEN
- ELEMENTARY DIAGRAMS SHOWN WITH BREAKER OPEN, CONTACTOR OPEN, CABINET DOOR CLOSED,
- 17. A LAMINATED COPY OF THE CIRCUIT SCHEMATIC DIAGRAM SHALL BE ATTACHED TO THE INSIDE OF THE CONTROLLER.
- PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
- 19. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

20A/1P	©.	© ©
CIRCUIT 25		
204 49		
20A/1P	®	eee (S
CIRCUIT 27	7-1-	

2 CABINET ELEMENTARY DIAGRAM NO SCALE

TY	PE:	BOLT-ON	B) F	PAN	EL NA	AME:		TOU	HY	AVE	N	AIN:	CONNECTED 4	4.5 KVA
MOUNTI	NG:	SURFACE - INTERIOR ONLY				SOLID	NEL	ITRAL		1	vo	LTS:	240/120	
FED FRO	DM-	UTILTIY				GROU	ND E	SUS		1	PH	ASE:	1	
IC RATI											٧	IRE:	3	
CKT	Τ-		- 1	WIRE	LOAD	BREA	KER	BREAL	KER	LOAD	WIRE			СКТ
NO.		LOAD DESCRIPTION	ε	SIZE	KVA	AMP	P	AMP	P	KVA	SIZE		LOAD DESCRIPTION	NO.
1	A	NORTH SIDE, 10-250W, 4-50W,4-400W	- T	*5	5.3	35	2	40	2	6.5	*5	W1	7 RECEPATCLES NW POLES	2
3	:							1		T		W2	6 RECEPTACLES NM POLES	4
5	В	SOUTH SIDE, 10-250W, 4-50W,1-400W		*8	3.8	25	2	25	2	3.5	*5	Y1	4 RECEPTACLES NE POLES	6
7		*****				-	-	1			-	Y2	3 RECEPTACLES NE POLES	8
9	C	NORTH SIDE, 16-250W, 4-50W, 1-400W		*5	3.8	25	2	40	2	6.5	*8	X1	7 RECEPATCLES SE POLES	10
11		erene.	i	**		-				1	·	X2	6 RECEPATCLES SE POLES	12
13	D	SOUTH SIDE, 10-250W, 4-50W, 2-400W	- 1	*S	4.2	30	2	25	2	3.5	*5	Z 1	4 RECEPTACLES SW POLES	14
15	T					-		1	-	1		Z2	3 RECEPTACLES SW POLES	16
17	Т	SPARE				: 30	2	25	2	1	-		SPARE	18
19	1	manur					-	_		-	-			20
21	Т	SPARE (FUTURE IRR PUMP)			6.5	35	2	40	2				SPARE	22
23	Т	manufaction of the second of t		-		-	1	T -		-				24
25	1	LTG, RECEPTACLES		12	0.3	20	1	20	1	0.1	10		IRRIGATION CONTROL	26
27	Ī	CABINET HEATER		12	0.4	20	1	20	1				SPARE	28
29	1	LTG CONTROL	-	12	0.1	20	1	20	1		T	!	SPARE	30

R

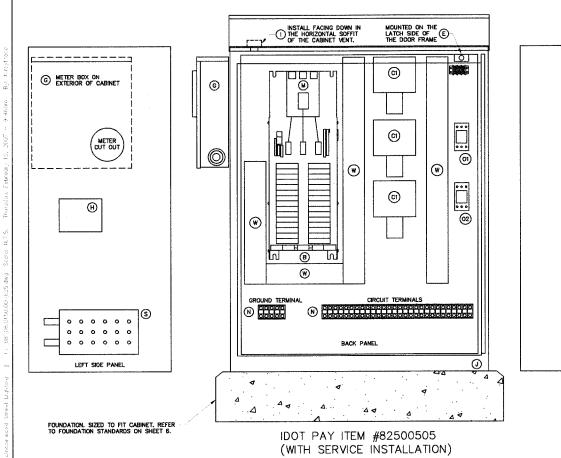
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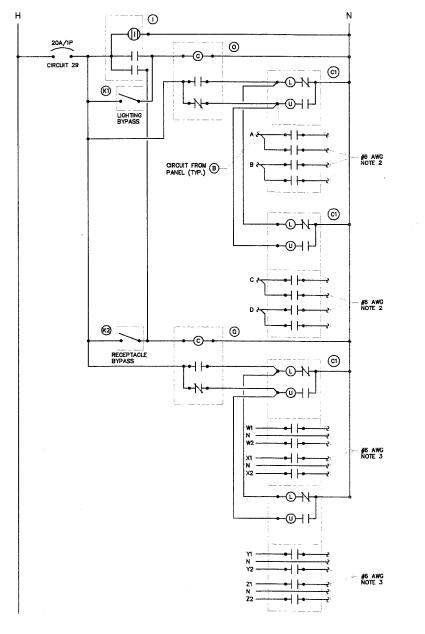
Õ

RIGHT SIDE PANEL

(K1)



1 LIGHTING CONTROL CABINET LAYOUT



FOR LIGHTING CONTROLLER "T" ITEM 🕖 QUANTITY DESCRIPTION BRANCH CIRCUIT PANEL INTERIOR, 200A COPPER BUS, 240/120/GLT, MOLDED CASS HERMAIL MAINETIC CIRCUIT BREAKERS, GOLT ON TYPE, AIC RATING OF 10,000 AMPS AT 240 VOLTS. SCILARE D 1830—NQ0020L 10004 OR APPROVED EQUAL MECHANICAL CONTACTOR 4 POLE 30 AMP 120V COIL, SQUARE D 8903-LGX40V02 OR APPROVED EQUAL C1 GFI RECEPTACLE 120V 20A PREMIUM SPEC. GRADE, NEMA REFERENCE 5-20R IN WEATHER- PROOF BOX WITH FLAP-TYPE COVER, HUBBELL GF5362A, WP28 COVER, OR APPROVED EQUAL 20A SPDT MICRO SWITCH (MOUNT WITH ACTUATOR TO SWITCH WHEN DOOR OPENED), 120 VOLT, 15 AMP CONTACTS, SQUARE D XCKL110, OR APPROVED EQUAL 60 WATT LIGHT FIXTURE, VAPOR TIGHT WITH GLOBE AND GUARD AND MOUNTING BOX METER FITTING, 1 PHASE, 3 WIRE, 200 AMP SURGE ARRESTOR, BRACKET MOUNTED, 120/240 VOLT SERVICE, G.E. TRANQUELL SUSEBOOL OR APPROVED EQUAL. PHOTOCELL, 120V, 1500 VA RATED, DOUBLE POLE, SINGLE THROW CONTACT, WEATHERPROOF AND CORROSION PROOF ENCLOSURE. U.L. LISTED. TORK 3000 OR APPROVED EQUAL. ENCLOSURE PAD MOUNTED, STAINLESS STEEL, N.E.M.A. 4 CONSTRUCTION WITH KEY LOCKING DOOR, KEY CYLINGER SHALL MATCH EXISTING VILLAGE LIGHTING CONTROLLER LOCKS. HOFFMAN, OR APPROVED EQUAL TOGGLE SWITCH, SPST, 20 AMP, 240 VOLT, SPECIFICATION GRADE MOUNTED IN SURFACE BOX. HUBBELL HBL1221 OR APPROVED EQUAL. 2 K1 K2 MAIN CIRCUIT BREAKER, MOLDED CASE THERMAL MAGNETIC, SERVICE ENTRANCE DUTY RATED 240 VOLT, 200 AMP, 2 POLE, AIC RATING OF 14,000 AMPS AT 240 VOLTS, INTEGRAL TO BRANCH PANEL. COPPER LOAD TERMINAL BLOCK FOR AWG#6 AND AWG#12 FORM TYPE C RELAY, ELECTRICALLY HELD, ONE NORMALLY OPEN (N.O.) AND ONE NORMALLY CLOSED (N.C.) CONTACTS, 800V CONTINUOUS DUTY COIL, 30 AMP CONTACT RATING, SQUARE D CLASS 8501 OR APPROVED EQUAL

CONTRACT NO. _83902_

1340 06-00048-00-RS COOK 36

BILL OF MATERIALS

CONTROLLER "T" DETAILS

T STALL SHEETE

25

3 LIGHTING CONTROL ELEMENTARY DIAGRAM

NOTES:
1. ALL CABINET INTERIOR WIRING SHALL BE STRANDED COPPER \$12 AWG THWN UNLESS NOTED OTHERWISE.

- 2. ROUTE TO STREET LIGHTING LUMINAIRES VIA TERMINAL BLOCK (N).
- 3. ROUTE TO POLE MOUNTED RECEPTACLES WA TERMINAL BLOCK (N).

w w	ENGINEERING GONSULTANTS Experience you can build on:	9771 W DIEHL ROAD, CHTE 300 MARETMILLE, N. 80965 500 3 70209 FAM 631 027,2321 WAWAYW JOHN 631 027,2321 PROJECT 808,01500)
TO THE DEA UNIA ARE DE BE UNIO GET	MUNIC MUD THE DATA SHOWS SE EXCLUSIVE HACHFRIM OF G-HOUNGEL FIRE AND OTHER F	APT RIGHTS, DELLUPING GERYPEARTS I THEFFOR PAID DRAWES AND OF LAWY 240 NETRIC A DOTTACT INTO PROJECT WITHOUT THE EXPLANCE OF PERING 2007 LAWY P.C.
	REFIRSTICE SCAL	LE TI B-CHES

ALT HAMILTON STATE OF THE STAT	PREPARED BY:	REVISIONS	
undling Engineers & Nurseyons ESS Forest Edge Divise	EWALT HAMILTON	None	SIAU
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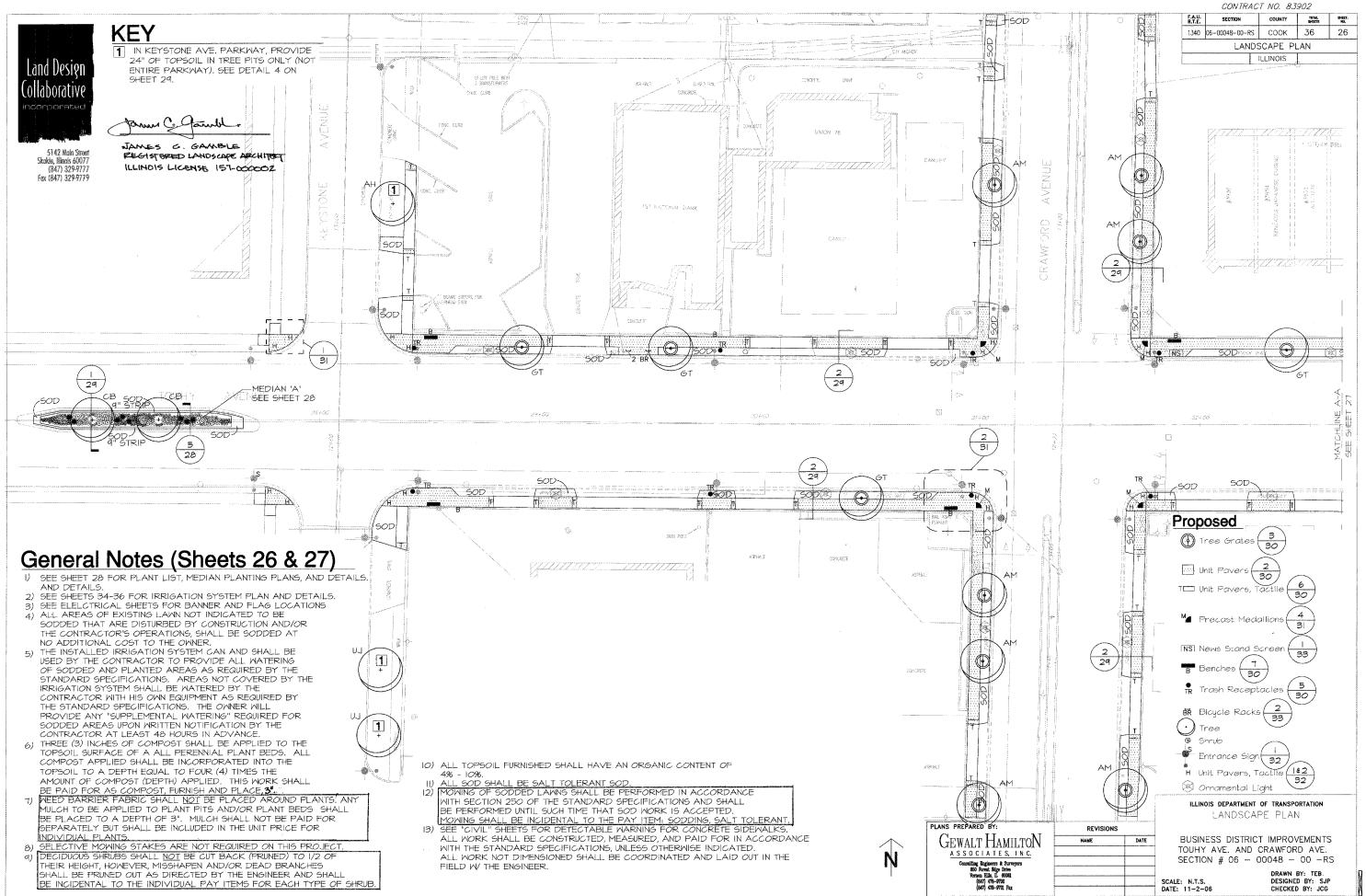
CONTROLLER "T" DETAILS

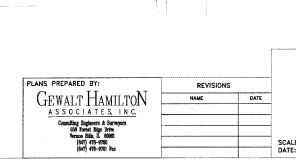
HEATER, 120 VOLT, 375 WATT, PERFORATED METAL HOUSING, CHROMALUX 276-10 OR APPROVED EQUAL.

WIRE MANAGEMENT RACE WAY

BUSINESS DISTRICT IMPROVEMENTS TOUHY AVE. AND CRAWFORD AVE. SECTION # 06 - 00048 - 00 -RS

| DPAWN B: 0FF | SCALE N.T.S. | DESIGNED B: UWA | DATE: 11-2-06 | CALCEED BY: 503





ILLINOIS DEPARTMENT OF TRANSPORTATION
LANDSCAPE PLAN

BUSINESS DISTRICT IMPROVEMENTS TOUHY AVE. AND CRAWFORD AVE. SECTION # 06 - 00048 - 00 -RS

SCALE: N.T.S. DATE: 11-2-06 DRAWN BY: TEB DESIGNED BY: SJP CHECKED BY: JCG

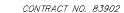
-6 SB _6 SB ,-II SB -14 RA A-A 26 -MEDIAN 'B' SEE SHEET 28 26 SOD CONCRETE DOME-A FOOD AVENUE TOURY KEEM WHAT 5 28 SOD 1-STORY BRICK A: STOME SUILDING #3933-3943 -MEDIAN 'C' ASPHALT SEE SHEET 28 26

RELOCATED
PARKING SIGN
(PAID FOR AS
REMOVE AND
RELOCATE SIGN

NO. 1)

-)17 SB

7771177777





BUFFALO JUNIPER, TYP.

ILLINOIS

SOD

MEDIAN B

Scale: 1" = 10'-0"

CB CB CBCB SOD STRI 911 SOD SOD 9" STRIP 9" STRIP - BUFFALO JUNIPER, TYP.

BUFFALO JUNIPER, TYP.

MEDIAN C 3

Scale: 1" = 10'-0"

No Scale

PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	QTY.	SIZE	REMARKS	MATURE HT.
	Trees (Paid for as Individual trees)					
ΑМ	Acer miyabel 'Morton'	State Street Miyabe Maple	7	4" Cal.	B≰B	
ΑН	Aesculus hippocastanum 'Baumannii'	Baumann Common Horsechestnut	1	4" cal.	B∉B	
co	Celtis occidentalis 'Windy City'	Windy City Common Hackberry	6	4" cal.	B≰B	
GT	Gleditsia triancanthos var. inermis 'Skyline'	Skyline Honeylocust	26	4" cal.	B≰B	
св	Carpinus betulus 'Fastigiata'	Pyramidal European Hornbeam	9	3" cal.	B&B, matched	**
LU	Ulmus japonica x wilsoniana 'Morton'	Accolade Elm	2	4" cal.	В≰В	
	Shrubs (Paid for as individual shrubs)					
j	Juniperus sabina 'Buffalo'	Buffalo Juniper	42	24" Spd.	36" O.C.	24"
RA	Rhus aromatica 'Gro-Low'	Gro-Low Sumac	64	24" sprd	36" O.C.	24"
SB	Spirea bumalda 'Anthony Waterer'	Anthony Waterer Spirea	52	30" hgt	36" O.C.	
JC	Juniperus chinensis 'Pfitzeriana'	Pfitzer Creeping Juniper	44	24" sprd	36" O.C.	
	Perennials (Paid for as PERENNIAL PLANT	S, GALLON POT)	L	L		
а	Achillea x 'Coronation Gold'	Coronation Gold Yarrow	26	I Gal.	18" O.C.	24" \
ь	Astilbe chinensis 'Pumila'	Dwarf Chinensis False Spirea	109	I Gal.	12" 0.0.	8-12"
c	Coreopsis verticillata 'Moonbeam'	Moonbeam Coreopsis	45	I Gal.	18" O.C.	18-24"
р	Echinacea purpurea 'Alba'	White Coneflower	45	I Gal.	24" O.C.	8-24"
е	Eragrostis spectabilis	Purple Love Grass	114	l Gal.	18" O.C.	24"
k	Koeleria cristata	June Grass	39	l Gal.	24" O.C.	18"
t	Liatris spicata	Gayfeather	62	I Gal.	18" O.C.	8-24 ¹¹
Τ	Liriope spicata	Creeping Lilyturf	15	l Gal.	18" O.C.	12"
r	Rosa 'Flower Carpet Appleblossom'	Floral Carpet Coral Rose	8	I Gal.	24" O.C.	
~	Salvia x superba 'East Friesland'	Perennial Salvia	78	I Gal.	18" O.C.	18"
υ	Sedum x Ruby Glow	Stonecrop	200	l Gal.	12" 0.0.	12"
5	Stachys byzantina 'Silver Carpet'	Lamb's Ear	59	l Gal.	15" O.C.	6-8"
	Ground Cover (See pay Item No. E20090P	3)				
n	Euonymus fortunei var. 'Coloratus'	Purple Leaf Wintercreeper	81	3" Pot	12" 0.0.	12"
	Bulbs (Paid for as PERENNIAL PLANTS, DA	FFQDIL BULBS)				
LN	Narcissus 'Jack Snipe' *	Jack Snipe Daffodil	130	Top Size	8" O.C.	8-10"

SOD/ 9" STRIP

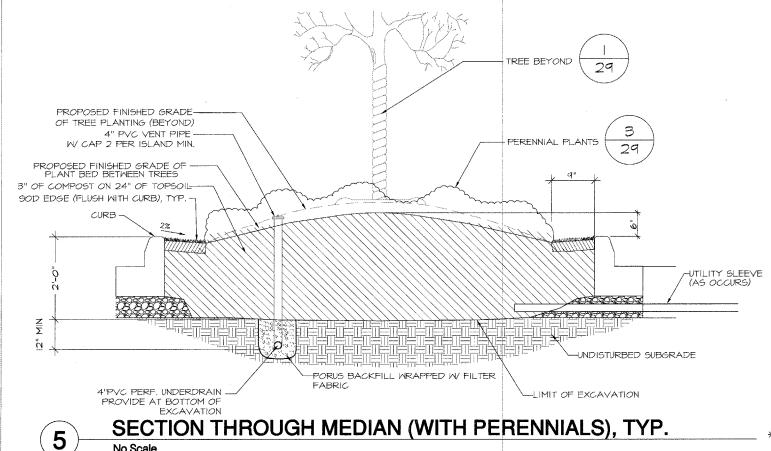
* Plant all Narcissus 8" O.C. between perennials in 13 groups (10 bulbs in each group) at locations indicated in the field

₩₩ Trim lower branches to a minimum height of 4' above pavement level PLANS PREPARED BY: REVISIONS GEWALT HAMILTON ASSOCIATES, INC.

ILLINOIS DEPARTMENT OF TRANSPORTATION LANDSCAPE PLANS

BUSINESS DISTRICT IMPROVEMENTS TOUHY AVE. AND CRAWFORD AVE. SECTION # 06 - 00048 - 00 -RS

DRAWN BY: TEB DESIGNED BY: SJP CHECKED BY: JCG



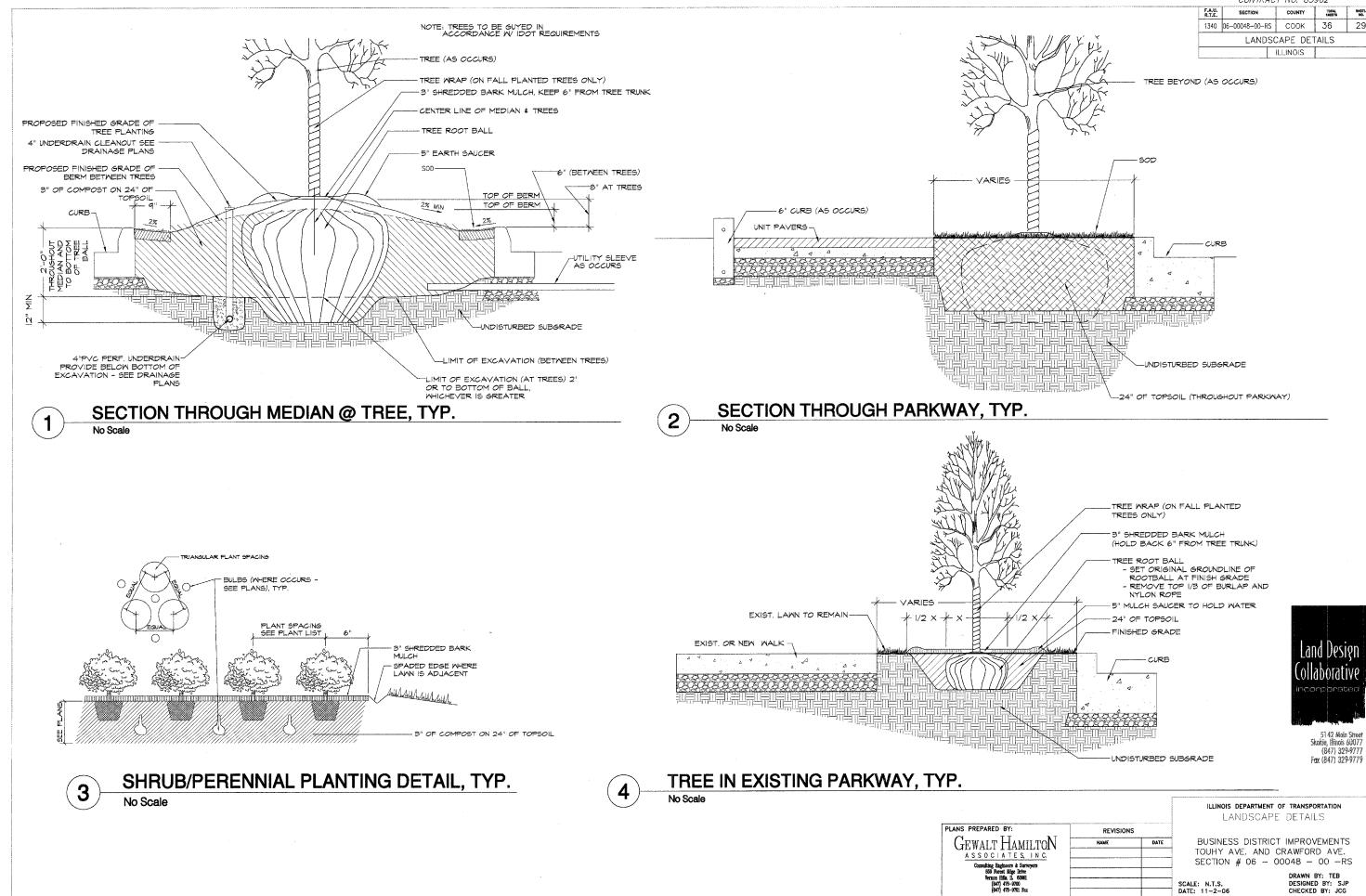
9" STRIP

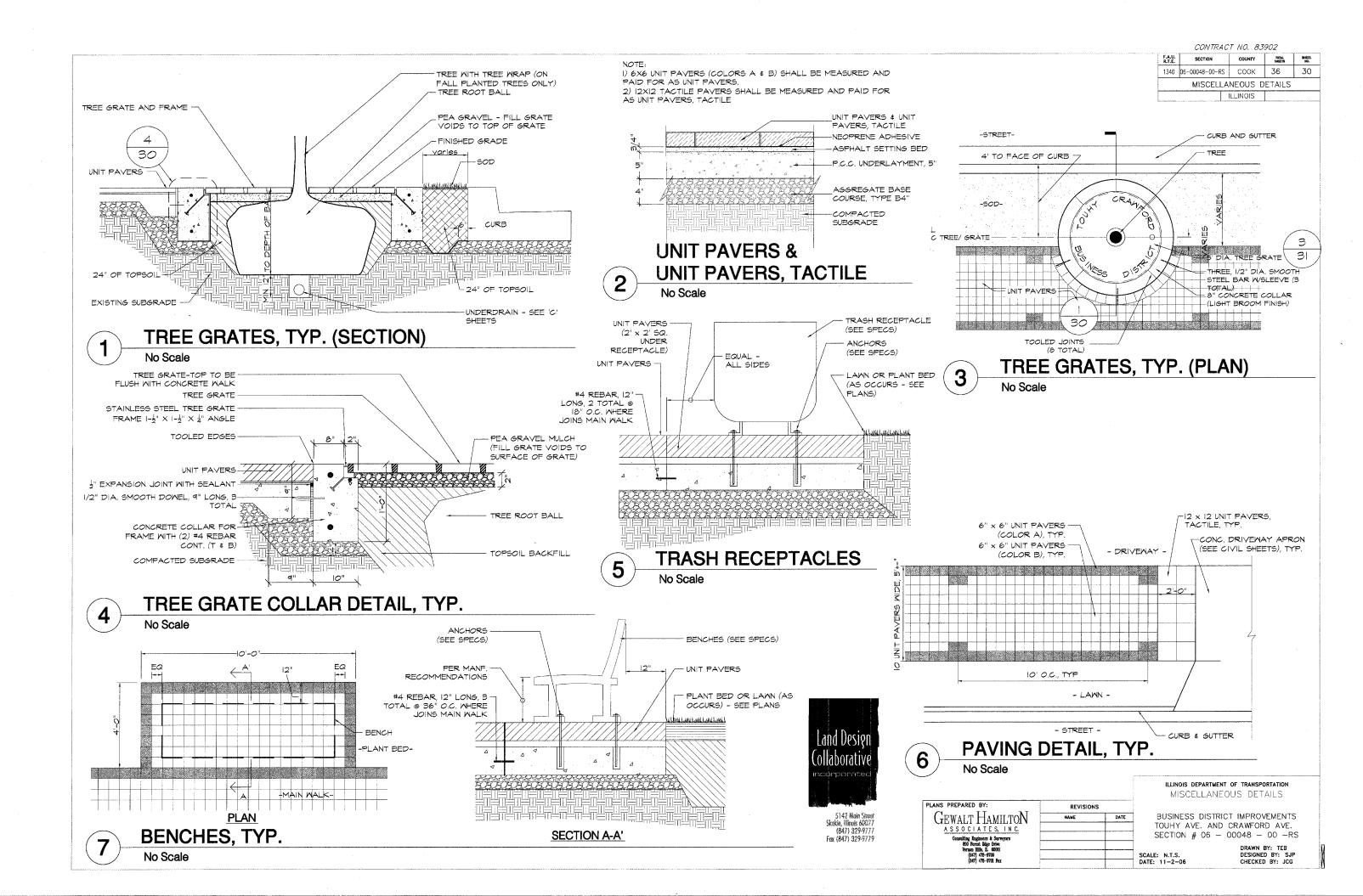
MEDIAN A

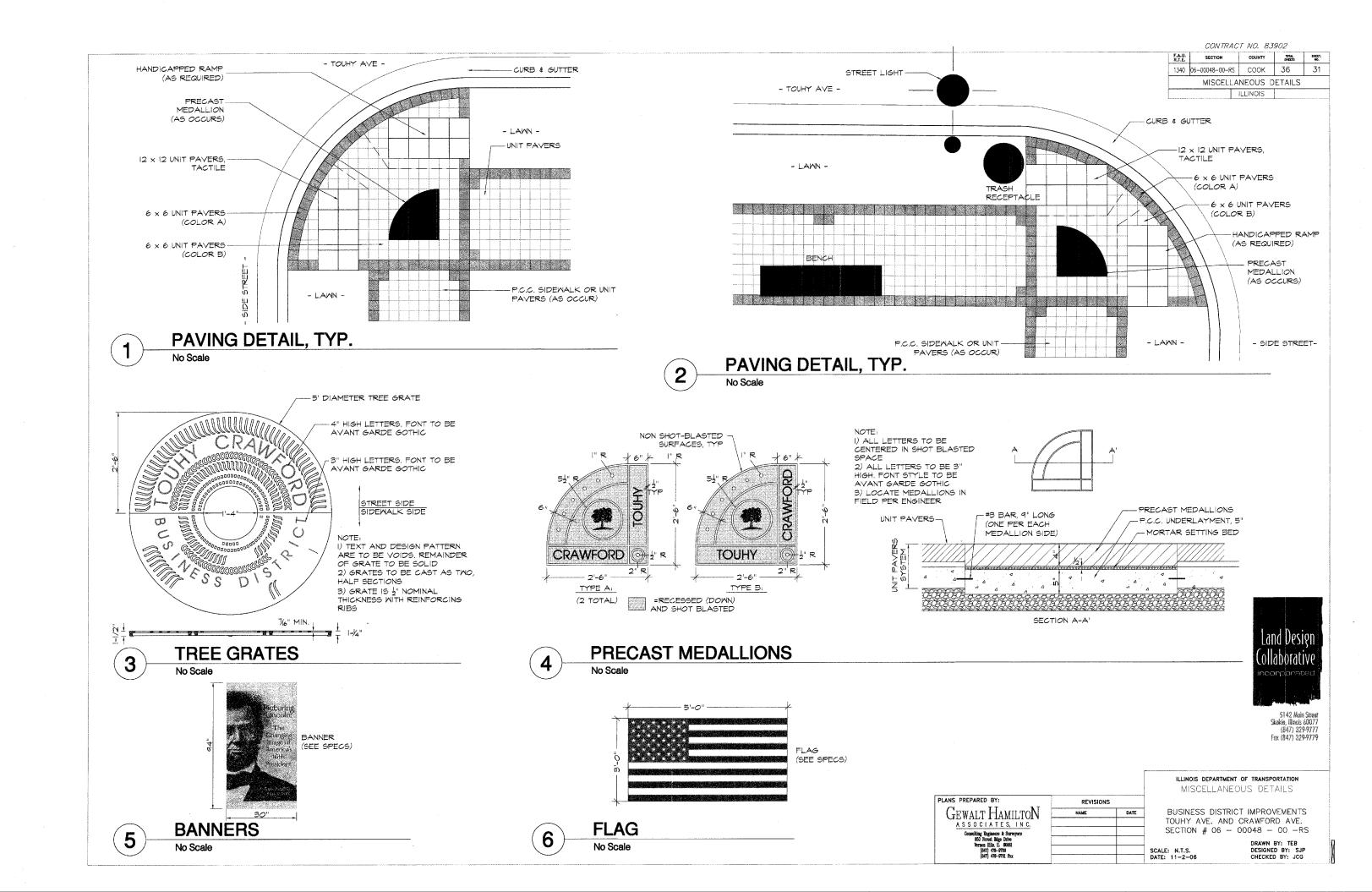
Scale: 1" = 10'-0"

51 42 Main Street Skokie, Illinois 60077 (847) 329-9777 Fax (847) 329-9779

DESIGNED BY: SJF CHECKED BY: JCG







F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SNEET. NO.
1340	06-00048-00-RS	COOK	36	32
	ENTRANCI	E SIGN	DETAILS	

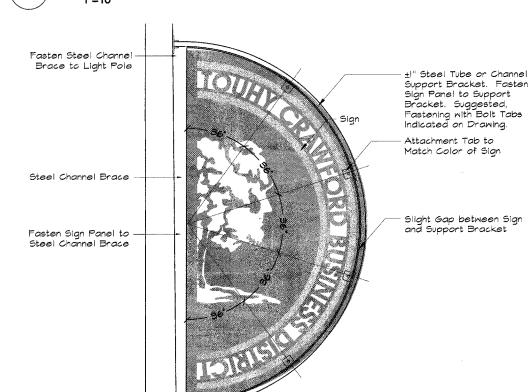
NOTE: Contractor shall provide a detailed engineering shop drawing for the fastening and structural support, signed and sealed by an Illinois licensed structural engineer and in accordance with the light pole manufacturer's requirements. -Slots Cut through Metal Di-Cut 1/8" Metal - Painted or vinyl letters and image- reflective copy to match Drylac "Taupe" #28-70070. Letters to be Avant Garde Gothic

> Painted Sign-painted MAP Acrylic Polyurethane to match Drylac "Redwood" #28-30040

> > PLANS PREPARED BY:

 $G_{\underbrace{\text{EWALT}}_{\text{ASSOCIATES, INC.}}} \\ \\ \text{HamiltoN}$

ENTRANCE SIGN MATERIALS 2



5142 Meen Street Skokie, Illinois 60077 (847) 329-9777 Fox (847) 329-9779

ILLINOIS DEPARTMENT OF TRANSPORTATION ENTRANCE SIGN DETAILS

BUSINESS DISTRICT IMPROVEMENTS TOUHY AVE. AND CRAWFORD AVE. SECTION # 06 - 00048 - 00 -RS

REVISIONS

DRAWN BY: TEB DESIGNED BY: SJP CHECKED BY: JCG

SIGN ATTACHMENT DETAIL

3

- SIDEWALK SIDE -

STREET LIGHT-

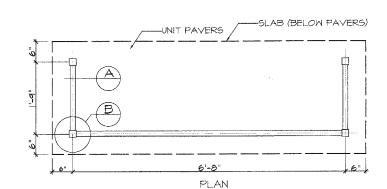
ENTRANCE SIGN

FINISHED GRADE

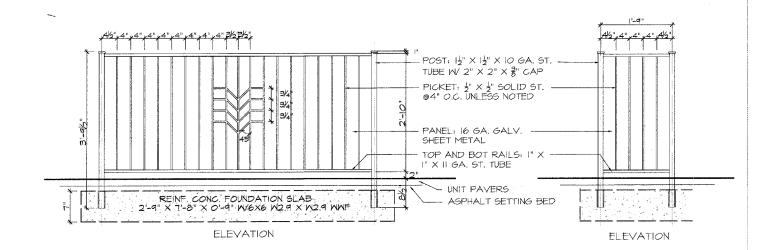
- TOUHY AVE -

ENTRANCE SIGN DETAIL

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET. NO.
1340	06-00048-00-RS	соок	36	33
	MISCELLAI	NEOUS D	ETAILS	
	1 '	LLINOIS		



-POST, TOP AND BOT. RAILS & PICKETS TO BE FULL MELD ALL AROUND, GALAVANIZE AFTER FABRICATION -TACK WELD PANEL TO TOP & BOT. RAILS AND PICKETS (MAX SPACING 6" -PRIME & FINISH COATS PER SPECS



NEWS STAND SCREEN DETAIL

BICYCLE RACKS LOOP (FURNISHED AND INSTALLED BY CONTRACTOR), AFTER PAVER INSTALLATION CORE PAVERS AND BASE TO RECIEVE POST AND GROUT $30" \times 15" \times 9"$ DEEP CONCRETE BASE, SET TOP OF BASE AT BOTTOM OF UNIT PAVING SYSTEM (CONC. BASE TO BE MEASURED AND PAID FOR AS PART OF UNIT PAVERS PAY ITEM) NON-SHRINK SETTING GROUT -UNIT PAVERS ASPHALT SETTING BED COMPACTED SUBGRADE

Skokie, Illinois 60077 (847) 329-9777 Fax (847) 329-9779

PLANS PREPARED BY: REVISIONS GEWALT HAMILTON ASSOCIATES, INC.

ILLINOIS DEPARTMENT OF TRANSPORTATION MISC. DETAILS

BUSINESS DISTRICT IMPROVEMENTS TOUHY AVE. AND CRAWFORD AVE. SECTION # 06 - 00048 - 00 -RS

DRAWN BY: TEB DESIGNED BY: SJP CHECKED BY: JCG

BICYCLE RACKS DETAIL

No Scale

-UNIT PAVERS AND CONCRETE SLAB SHALL BE CORED TO ACCEPT SCREEN POSTS AND SET WITH NON-SHRINK, NON-METALLIC SETTING GROUT -SETTING BED-_CONC. FOUNDATION SLAB...

- 2" X 2" X 3" ST. CAP WELD TO POSTS

 $\frac{1}{2}$ " \times $\frac{1}{2}$ " SOLID ST. PICKET WELD TO TOP AND BOT. RAIL ALL AROUND

WELDS (TYP.)

-1" X |" X || GA. ST. TOP & BOT. RAIL,

WELD TO POST ALL AROUND (TYP.)

TACK WELD @ 6" O.C. BOTH SIDES, ALTERNATE WELDS (TYP.)

SETTING GROUT FIN GR.

-- UNIT PAYERS

TACK WELD PANEL @ 6" O.C. BOTH SIDES, ALTERNATE

- LX LX IO GA. ST. TUBE POST

16 GA. GALV. SHEET METAL PANEL, TACK WELD TO TOP AND BOT RAILS,

PICKETS, AND POST @ 6" O.C. (TYP)

PLAN

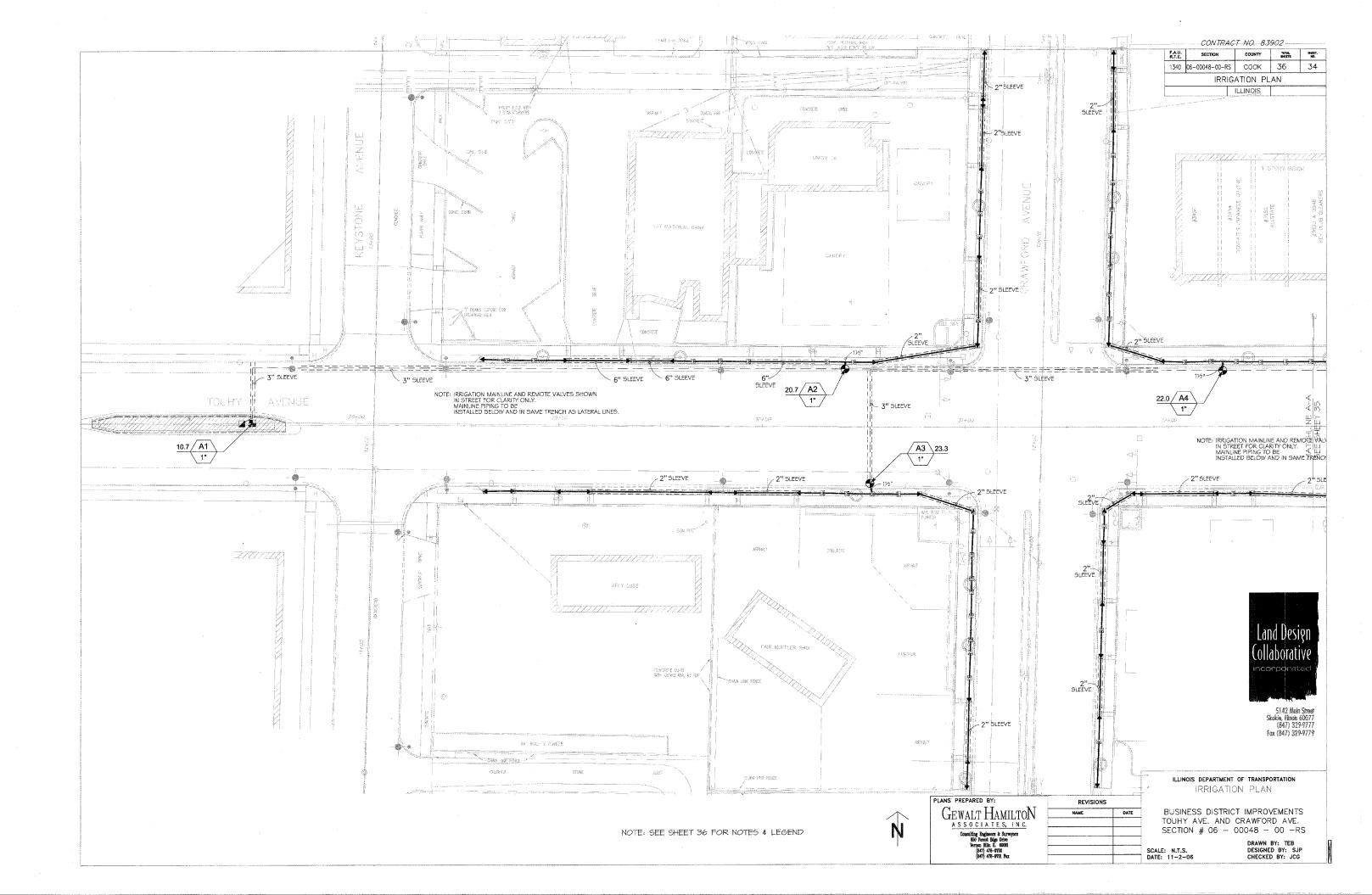
NOTES:
-NEWS STAND SCREEN SHALL BE INSTALLED AFTER INSTALLATION OF NEW CONCRETE SLAB AND

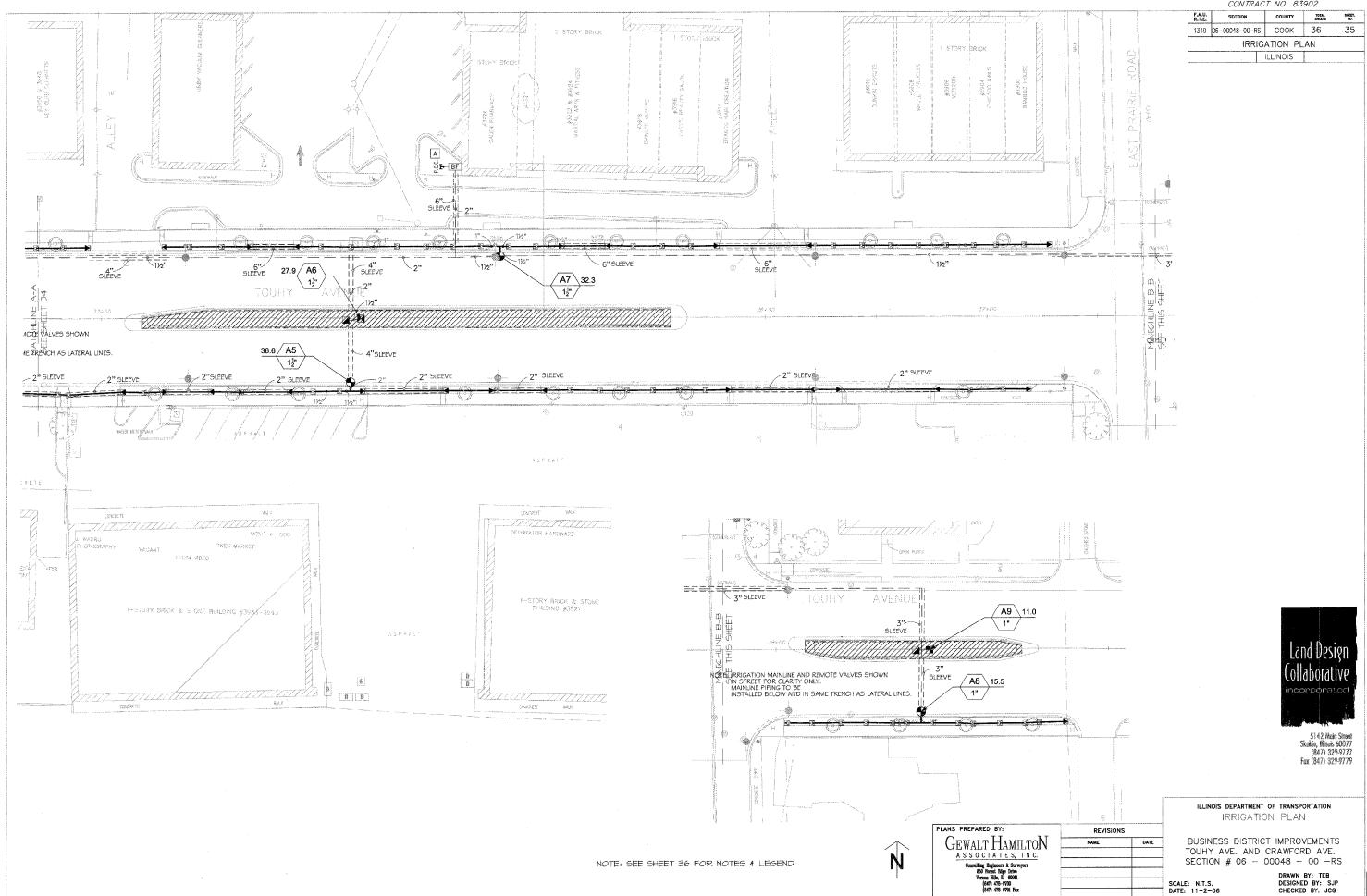
REINSTALLATION OF EXISTING UNIT PAVERS

CORE SLAB FOR 1 SQ. POST

SECTION

No Scale





1340 06-00048-00-RS COOK 36 36

IRRIGATION PLAN/DETAILS/NOTES

ILLINOIS

COUNTY TOTAL SHEET, NO.

SECTION

(1) FINISH GRADE/TOP OF MULCH 2 POP-UP SPRAY SPRINKLER:

(3) PVC LATERAL PIPE WING ASSEMBLY:
RAIN BIRD MODEL SA 6050

POP-UP SPRAY SPRINKLER

1806 WITH SWING PIPE

①

1) LATERAL AND EMITTER SPACING DEPENDS ON SOIL TYPE.

LANDSCAPE DRIPLINE LATERALS

1 1/2" COMMERCIAL CONTROL ZONE KIT

WITH 2 BASKET FILTERS

XCZ-150-CEM

POTABLE SYSTEM

5 PVC SCH 40 TEE OR ELL

AIN BIRD EASY FIT COMPRESSION ADAPTER

EASY FIT COMPRESSION COUPLING: RAIN BIRD MDCFCOUP

ANDSCAPE DRIPLINE TUBING: RAIN BIRD LANDSCAPE DRIPLINE LD-XX-XX

/2-INCH POLYETHYLENE PIPE: RAIN BIRD XBS BLACK STRIPE TUBING

- EASY FIT COMPRESSION COUPLING: RAIN BIRD MDCFCOUP

PVC \$CH 40 ELL PVC \$CH 80 1 1/2' NIPPLE (LENGTH AS REGUIRED)

39-INCH LINEAR LENGTH OF WIRE, COILED WATER PROOF CONNECTIONS RAIN BIRD SPLICE-1 CLOF 2)

ID TAG RAIN BIRD VID SERIES

VALVE BOX WITH COVER RAIN BIRD VS-JMB

PVC LATERALS

PVC SCH 48 MALE ADAPTER (2)

PVC SCH BO NIPPLE, CLUSE (2)

3-INCH MINIHUM DEPTH OF 3/4-INCH WASHED GRAVEL

PVC SCH 80 1' UNION (2) FOR SERVICING ASSEMBLY

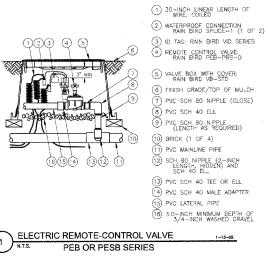
BLECK (1 OF 4)

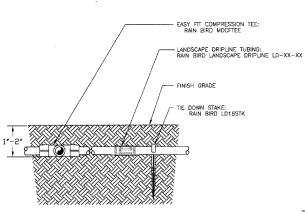
PVC MAINLINE

	IRRIGATION SCHEDULE		
	MANUFACTURER/MODEL/DESCRIPTION	QTY	<u>PSL</u>
EST CST SST	Rain Bird 1806-U-PRS 4' strip Turf Spray 6' popup with pressure regulator	147	30
0 D 0 B	Rain Bird 1806-U-PR5 8' radius Turf Spray 6" popup with pressure regulator	2	
	MANUFACTURER/MODEL/DESCRIPTION	QTY	
E	Rain Bird XCZ-100-B-COM Drip 1" Rain Bird PEBS valve, $2-1$ " filters and $2-40psi$ pressure regulators	2	
×	Rain Bird XCZ-150-COM High flow control zone kit w/ $1\frac{1}{2}$ PESB valve, 2-1* filters, and 2-40ps pressure regulators	1	
	Area to recieve dripline Rain Bird LD-09-12 Landscape dripline with 0.92gph emitters at 12" apart, with emitters offset for triangular pattern	3,311:	5.f.
	MANUFACTURER/MODEL/DESCRIPTION	QTY	
•	Rain Bird PGA-NP-HAN Electric remote control valve with non-potable handle	6	
	Rain Bird 3RC ³⁴ Quick Coupler valve, one piece body	2	
A	Rain Bird ESP-LXM-95 ESP-LXM in stainless steel pedestal as provided by RBSC	ı	
BF	Watts 909 2" Reduced pressure backflow preventer	1	
	Imagation lateral line: PVC class 200 Only lateral transition pipe sizes $1\frac{1}{4}$ and above are indicated on the plan, with all others being 1 ° in size	2,298	.f.
	Irrigation mainline: PVC class 200	1,379	.f.
	Pipe sleeve: PVC class 200 Typical pipe sleeve for imagation pipe. Pipe sleeve size shall allow for imagation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18' beyond edges of paving or construction	1,3771	.f.
	Valve Callout Valve Number		
# # # •	Valve GPM		
#"•	Valve Size		

GENERAL IRRIGATION NOTES

- THIS IRRIGATION DESIGN IS DIAGRAMMATIC. ACTUAL LAYOUT OF PIPING, SPRINKLER HEADS, VALVES, CONTROLLERS AND RELATED EQUIPMENT SHALL BE DETERMINED ON SITE. MINOR FIELD ADJUSTMENTS SHALL SE MADE AT NO ADDITIONAL COST TO THE
- 2. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO BE FAMILIAR WITH ALL GRADE DIFFERENCES, LOCATIONS OF WALLS, STRUCTURES AND UTILES AND MAKE THE NECESSARY ADJUSTMENTS TO ACCOMMODATE THE IRRIGATION SYSTEM AS DESIGNED, DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN AS WELL AS KNOWN OBSTRUCTIONS, GRADES OR DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING, SUCH OBSTRUCTIONS OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE THE EVENT THAT THIS NOTIFICATION IS NOT PROVIDED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS AND COSTS NECESSARY FOR THE UNOBSTRUCTED OPERATION OF THE SPRINKLER SYSTEM.
- 3. THE IRRIGATION SYSTEM DESIGN IS BASED ON A MINIMUM OPERATING PRESSURE OF SOPSI AT THE POINT OF CONNECTION AND A MAXIMUM FLOW DEMAND OF 400PV. THE IRRIGATION CONTRACTOR SHALL VERIEV WATER PRESSURES FRIOR TO CONSTRUCTION. REPORT DIFFERENCES BETWEEN REQUIREMENTS AND ACTUAL READINGS TO THE OWNERS AUTHORIZED REPRESENTATIVE, THE FLOW DEMAND FOR INDIVIDUAL MAINLINES SHALL NOT EXCEED THE FOLLOWING GUIDELINES. 2" CLASS 200=36-55GPM
- 4. THE CONTRACTOR SHALL PROVIDE 1 20V-AC 3PHASE POWER SOURCE AT THE CONTROLLER LOCATION. THE IRRIGATION CONTRACTOR SHALL MAKE THE FINAL CONNECTION FROM THE ELECTRICAL SOURCE TO THE CONTROLLER.
- 5. A RAIN SENSOR SHALL BE INSTALLED IN THE VICINITY OF THE CONTROLLER. SEE SPECIFICATIONS
- 6. A QUICX COUPLING VALVE SHALL BE LOCATED AT THE IRRIGATION WATER SUPPLY POINT OF CONNECTION TO PROVIDE FOR A POINT OF INJECTION OF COMPRESSED AIR TO PURGE THE SYSTEM OF RETAINED WATER FOR WINTERZATION.
- 7. PIPE SIZE SHALL CONFORM TO THOSE SHOWN ON DRAWINGS, NO SUBSTITUTIONS OF SMALLER PIPE SIZES SHALL BE PERMITTED, BUT SUBSTITUTIONS FOR LARGER SIZES MAY BE APPROVED. MINIMUM PIPE SHALL BE 11.
- 8. ALL LATERAL ZONES SHALL BE CONNECTED TO THE MAINLINE WITH PVC PIPE AND SIZED AS FOLLOWS: (* CLASS 200=0-17GPM | 1.25* CLASS 200=16-28GPM
 - i.5" CLASS 200=29-35GPM 2.5" CLASS 200=56-85GPM
- 21 CLASS 200=36-55GPM
- 3" CLASS 200=56-85GPM
- 9. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR AND FLUSH TO FINISH GRADE AND WITH A CLEARENCE OF 2" (MIN.) FROM THE EDGE OF ANY HARD SURFACE UNLESS OTHERWISE SPECIFIED.
- 10. CHECK VALVES SHALL BE INSTALLED ON ALL IRRIGATION HEADS IN AREAS WHERE FINISH GRADE EXCEEDS 4:1, WHERE POST VALVE SHUTOFF DRAINING OF THE IRRIGATION HEAD OCCURS OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE
- LI ALL SPRINK FR HEADS AND VALVES SHALL BE FLUSHED AND ADJUSTED FOR OPTIMUM COVERAGE WITH MINIMUM OVER SPRAY ON
- WALKS, STREETS, WALLS, ETC .. 12. ALL WIRES SPLICES TO BE MADE IN VALVE BOX.
- 13. ALL VALVE BOXES TO BE INSTALLED WITH METAL DETECTION IN VALVE BOX LID.
- 14. INSTALL TWO SPARE WIRES PER CONTROLLER, WIRE TO BE RUN TO FURTHEST ZONE VALVE LOCATION FOR EACH CONTROLLER.
- 15. ALL IRRIGATION EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS, INSTALL IRRIGATION SYSTEM IN ACCORDANCE WITH ALL LOCAL AND STATE GOVERNING CODES OF ILLINOIS
- 16. REFER TO THE SPECIFICATIONS FOR ADDITIONAL DETAILED INFORMATION.
- 17. GENERAL CONTRACTOR TO INSTALL IRRIGATION SLEEVES AS SHOWN NO DEEPER THAN 24" WHEREVER POSSIBLE.
- 18. GENERAL CONTRACTOR TO PROVIDE 120VAC TO IRRIGATION CONTROLLER.
- 19. ALL IRRIGATION WORK (SHEETS 34-36) IS PAID FOR THE CONTRACT UNIT PRICE: IRRIGATION SYSTEM





NOTE(S): If PUTTING LANDSCAPE DRIPLINE UNDER SOIL, DO NOT BURY MORE THAN $2^{\prime\prime}$ BELLOW GRADE AND INCLUDE AIR RELIEF VALVE (SEE DRAWING-"AIR RELIEF VALVE KIT-AR VALVE K- $7^{\prime\prime}$).

(1)TOP OF MULCH

(2) FINISH GRADE

± 1/2" ±1/2"4 1/4"±1 1/4" LANDSCAPE DRIPLINE 2" BELOW GRADE N.T.S. WITH EASY FIT TEE - POTABLE SYSTEM

XCZ-100-B-COM

PLANS PREPARED BY: REVISIONS GEWALT HAMILTON ASSOCIATES, INC. Consulting Engineers & Surveyors 850 Furest Edge Drive Vernou Ells, IL 60061 (847) 478-9700 (847) 478-9701 Fax

ILLINOIS DEPARTMENT OF TRANSPORTATION IRRIGATION PLAN/DETAILS/NOTES

BUSINESS DISTRICT IMPROVEMENTS TOUHY AVE. AND CRAWFORD AVE. SECTION # 06 - 00048 - 00 -RS

DRAWN BY: TEB DESIGNED BY: SJP CHECKED BY: JCG

6606 ⓐ€

330-INCH LINEAR LENGTH OF WIRE, COILED A WATERPROOF CONNECTION
RAIN BIRD SPLICE-1

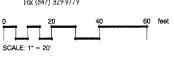
OF PROPERTY OF THE PROPERTY O (5)ID TAG RAIN BIRD VID SERIES 6 VALVE BOX WITH COVERINATION BIRD VB-JMB
7 PVC SCH 80 NIPPLE, CLOSE
1 DF 3) (1 OF 3)

B PVC SCH 80 NIPPLE

(LENGTH AS REQUIRED)

PVC SCH 40 ELL 11)PVC SCH 40 TEE DR ELL (2) BRICK (1 (1F 4) (3)3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL (4)PVC MAINLINE SCENTROL ZONE KIT: RAIN BIRD MODEL XCZ-100COM 6 PVC SCH 80 UNION FOR SERVICING ASSEMBLY 7)PVC SCH 40 MALE ADAPTER BPVC LATERAL PIPE

1" COMMERCIAL CONTROL ZONE KIT WITH BASKET FILTER







5142 Main Street Skokie, Illimois 60077 (847) 329-9777 Fox (847) 329-9779

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