TITLE SHEET

GENERAL NOTES AND TYPICAL CROSS SECTIONS

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM WASHINGTON STREET AT TESKE BOULEVARD

TRAFFIC SIGNAL MODERNIZATION PLAN
WASHINGTON STREET AT IL RTE 131 (GREEN BAY ROAD)
SCHEDULE OF QUANTIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM
WASHINGTON STREET AT IL RTE 131 (GREEN BAY ROAD)

TEMPORARY TRAFFIC INSTALLATION PLAN AND REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT WASHINGTON STREET AT WASHINGTON TERRACE

TEMPORARY CABLE PLAN AND TEMPORARY PHASE DESIGNATION DIAGRAM WASHINGTON STREET AT WASHINGTON TERRACE
TRAFFIC SIGNAL MODERNIZATION PLAN
WASHINGTON STREET AT WASHINGTON TERRACE

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM WASHINGTON STREET AT WASHINGTON TERRACE

TEMPORARY TRAFFIC INSTALLATION PLAN AND REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT WASHINGTON STREET MCAREE ROAD/KELLER AVENUE

TEMPORARY CABLE PLAN AND TEMPORARY PHASE DESIGNATION DIAGRAM WASHINGTON STREET AT MCAREE ROAD/KELLER AVENUE

TRAFFIC SIGNAL MODERNIZATION PLAN
WASHINGTON STREET AT MCAREE ROAD/KELLER AVENUE
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM
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TEMPORARY TRAFFIC INSTALLATION PLAN AND REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT WASHINGTON STREET AT LEWIS AVENUE

TEMPORARY CABLE PLAN AND TEMPORARY PHASE DESIGNATION DIAGRAM WASHINGTON STREET AT LEWIS AVENUE

GEOMETRIC PLAN
WASHINGTON STREET AT LEWIS AVENUE

TRAFFIC SIGNAL MODERNIZATION PLAN WASHINGTON STREET AT LEWIS AVENUE - SHEET 1 OF 2

TRAFFIC SIGNAL MODERNIZATION PLAN
WASHINGTON STREET AT LEWIS AVENUE - SHEET 2 OF 2

SCHEDULE OF QUANTITES, CABLE PLAN, PHASE DESIGNATION DIAGRAM WASHINGTON STREET AT LEWIS AVENUE

WASHINGTON TREET INSTALLATION PLAN AND REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT WASHINGTON STREET AT BUTRICK AVENUE

TEMPORARY CABLE PLAN AND TEMPORARY PHASE DESIGNATION DIAGRAM WASHINGTON STREET AT BUTRICK AVENUE

GEOMETRIC PLAN WASHINGTON STREET AT BUTRICK AVENUE

TRAFFIC SIGNAL MODERNIZATION PLAN WASHINGTON STREET AT BUTRICK AVENUE

WASHINGTON STREET AT BUTRICK AVENUE
SCHEDULE OF QUANTITES, CABLE PLAN, PHASE DESIGNATION DIAGRAM
WASHINGTON STREET AT BUTRICK AVENUE
TEMPORARY TRAFFIC INSTALLATION PLAN AND
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT
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WASHINGTON STREET AT JACKSON STREET
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM
WASHINGTON STREET AT JACKSON STREET
TEMPORARY TRAFFIC INSTALLATION PLAN AND

TEMPORARY TRAFFIC INSTALLATION PLAN AND REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT WASHINGTON STREET AT WEST STREET

TEMPORARY CABLE PLAN AND TEMPORARY PHASE DESIGNATION DIAGRAM WASHINGTON STREET AT WEST STREET

TRAFFIC SIGNAL MODERNIZATION PLAN WASHINGTON STREET AT WEST STREET

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM WASHINGTON STREET AT WEST STREET

TEMPORARY TRAFFIC INSTALLATION PLAN AND REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT WASHINGTON STREET AT MARTIN LUTHER KING JR. AVENUE

TEMPORARY CABLE PLAN AND TEMPORARY PHASE DESIGNATION DIAGRAM WASHINGTON STREET AT MARTIN LUTHER KING JR. AVENUE

38. TRAFFIC SIGNAL MODERNIZATION PLAN WASHINGTON STREET AT MARTIN LUTHER KING JR. AVENUE

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM WASHINGTON STREET AT MARTIN LUTHER KING JR. AVENUE

TEMPORARY TRAFFIC INSTALLATION PLAN AND REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT WASHINGTON STREET AT COUNTY STREET

TEMPORARY CABLE PLAN AND TEMPORARY PHASE DESIGNATION DIAGRAM WASHINGTON STREET AT COUNTY STREET

TRAFFIC SIGNAL MODERNIZATION PLAN WASHINGTON STREET AT COUNTY STREET

MASHINGTON STREET AT COUNT STREET

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM
WASHINGTON STREET AT COUNTY STREET

EMPORARY TRAFFIC INSTALLATION PLAN AND
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT
WASHINGTON STREET AT GENESEE STREET

REMOVED TO STREET AT GENESEE STREET

45. TEMPORARY CABLE PLAN AND TEMPORARY PHASE DESIGNATION DIAGRAM WASHINGTON STREET AT GENESEE STREET

46. TRAFFIC SIGNAL MODERNIZATION PLAN WASHINGTON STREET AT GENESEE STREET

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM WASHINGTON STREET AT GENESEE STREET

48. TRAFFIC SIGNAL MODERNIZATION PLAN WASHINGTON STREET AT SHERIDAN ROAD

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM WASHINGTON STREET AT SHERIDAN ROAD

INTERCONNECT PLAN — SHEET 1 OF 5
INTERCONNECT PLAN — SHEET 2 OF 5
INTERCONNECT PLAN — SHEET 3 OF 5

INTERCONNECT PLAN - SHEET 4 OF 5

INTERCONNECT PLAN - SHEET 5 OF 5 INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITES WASHINGTON STREET FROM TESKE BOULEVARD TO SHERIDAN ROAD

MID-BLOCK PEDESTRIAN CROSSING
WASHINGTON STREET AT ROBERT MCLORY BIKEPATH

WASHINGTON STREET AT ROBERT MCLORY BIKEPA:
LCDOT MAST ARM MOUNTED STREET NAME SIGNS
LCDOT MAST ARM MOUNTED STREET NAME SIGNS
LCDOT MAST ARM MOUNTED STREET NAME SIGNS
VIDEO SYSTEM SCHEMATIC - SHEET 1 OF 2
VIDEO SYSTEM SCHEMATIC - SHEET 2 OF 2

VICEO STSTEM SCHEMINTO - STEEL 2 OF 2 LCDDT STANDARD TRAFFIC SIGNAL DESIGN DETAILS - SHEET 1 OF 2 LCDDT STANDARD TRAFFIC SIGNAL DESIGN DETAILS - SHEET 2 OF 2 LCDDT CURB RAMPS WITH TRAFFIC SIGNAL POSTS & MAST ARMS - SHEE TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS - SHEET 1 OF 3

TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS - SHEET 2 OF 3

TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS - SHEET 3 OF 3

DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS — 1 OF 4
DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS — 2 OF 4
DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS — 3 OF 4
DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS — 3 OF 4
DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS — 4 OF 4 LCDOT DRIVEWAY DETAIL, DISTANCE BETWEEN ROW & F.O.C. < 15'

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS**

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

WASHINGTON STREET (FAU 1223) TESKE BOULEVARD TO SHERIDAN ROAD (FAU 2736) FIBER OPTICS COMMUNICATIONS NETWORK SECTION 04-00272-00-TL PROJECT NO. CMM-8003(508) LAKE COUNTY DIVISION OF TRANSPORTATION C-91-189-05

BEGIN IMPROVEMENT STA. 22+00 TESKE BOULEVARD

EXISTING POSTED SPEED LIMIT ON WASHINGTON ST.

35 M.P.H. (WEST OF LEWIS AVE.) 30 M.P.H. (EAST OF LEWIS AVE.)

DESIGN SPEED LIMIT ON WASHINGTON ST.

40 M.P.H. (WEST OF LEWIS AVE.) 35 M.P.H. (EAST OF LEWIS AVE.)

TRAFFIC DATA ON WASHINGTON ST.

CURRENT 2006 A.D.T.= 31,700 (AT TESKE BLVD) CURRENT 2006 A.D.T.= 16,500 (AT LEWIS AVE) CURRENT 2006 A.D.T.= 4,800 (AT GENESEE ST) DESIGN YEAR 2016 A.D.T.= 36.510 (AT TESKE BLVD) DESIGN YEAR 2016 A.D.T.= 18,150 (AT LEWIS AVE) DESIGN YEAR 2016 A.D.T.= 5.525 (AT GENESEE ST)



LOCATING NFORMATION FOR

(Excluding Sat., Sun., & Holidays) 1-800-892-0123

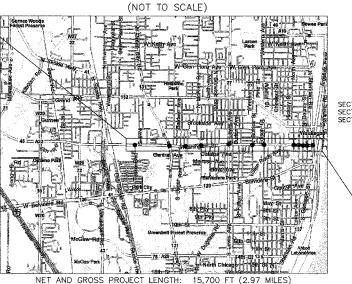
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CONTRACT NO: <u>83932</u>

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 DETERNINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES. HE SHALL ALSO OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES, DETAILED INFORMATION RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULES 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.

LOCATION MAP



TRAFFIC SIGNAL MODIFICATION PLAN

INTERCONNECT PLAN

GRAPHIC SCALE

(IN FEET)

GRAPHIC SCALE

END IMPROVEMENT STA 179+00 SHERIDAN ROAD (FAU 2736)

IDOT STANDARDS

000001-04 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

000001-04 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-04 CURB RAMPS FOR SIOEWALKS
701006-02 OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-01 OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-01 OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701301-02 LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
701501-03 URBAN LANE CLOSURE 2L, 2W WITH BI-DIRECTIONAL LEFT TURN LANE
701606-04 URBAN LANE CLOSURE 2L, 2W WITH BI-DIRECTIONAL LEFT TURN LANE
701606-04 URBAN LANE CLOSURE MULTILANE 2W WITH MOUNTABLE MEDIAN
701701-04 URBAN LANE CLOSURE MULTILANE INTERSECTION
701801-03 LANE CLOSURE MULTILANE INTERSECTION
701801-03 LANE CLOSURE MULTILANE INTERSECTION
701801-05 TRAFFIC CONTROL DEVICES

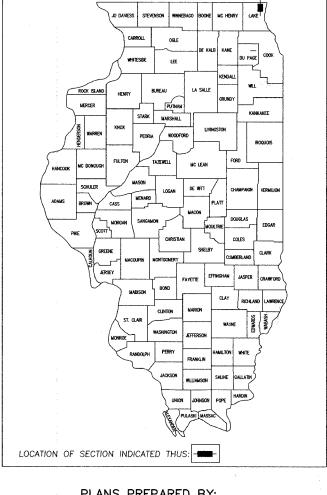
701801-03 LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CL 702201-06 TRAFFIC CONTROL DEVICES 814001-01 HANDHOLE 814006-01 DOUBLE HANDHOLE 857001 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES 862001 UNNITERRUPTABLE POWER SUPPLY (UPS)

873001-01 TRAFFIC SIGNAL GROUNDING

377001-07 TRAFFIC SIGNAL GROONDING

877011-02 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 878001-05 CONCRETE FOUNDATION DETAILS 880001 SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION 880006 TRAFFIC SIGNAL MOUNTING DETAILS 886001 DETECTOR LOOP INSTALLATIONS



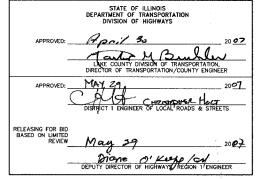


PLANS PREPARED BY:



Consulting Engineers & Surveyors 850 Forest Edge Drive Vernon Hills, IL 60061 847-478-9700 FAX: 847-478-9701

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS





DATE

4/6/07

5/1/07



SPECIAL CONDITIONS FOR CONSTRUCTION WITHIN A LAKE COUNTY HIGHWAY RIGHT-OF-WAY

Work Notification

Prior to starting construction, the Maintenance Section, 847—362—3960, and the Permit Section, 847—362—3950, shall be called and given the construction start date.

Specifications

The construction and restoration methods and procedures, materials used and construction signing and traffic control shall, when applicable, conform or meet the standards and requirements set forth in the current "Manual on Uniform Traffic Control Devices for Street and Highways," 'Standard Specifications for Road and Bridge Construction', "Standard's Specification for Traffic Control Items", and the "Highway Standards" manual as published or adopted by the Illinois Department of Transportation.

No changes to the depth or location of the watermain or sewer as shown on these plans due to unforeseen field conditions or conflicts can be made unless prior approval has been obtained from the Permit Section of the Lake County Division of Transportation.

Additions, Extensions or Deletions for the Watermain or Sewer

No additions, extensions or deletions can be made to the watermain or sewer as shown on these plans unless prior approval has been obtained from the Permit Section of the Lake County Division of Transportation.

Measures shall be taken to prevent or protect the public from hazards caused by the construction operations.

Parking of Vehicles, Equipment and Starage of Materials

Construction worker's vehicles and construction equipment shall be parked in areas outside of the County Highway right-of-way or in areas where there will be no interference with the normal use of the highway or vehicle sight distance. Construction materials shall be located at least 12 feet from a through traffic lane or outside of the County Highway right-of-way.

Maintaining Existing Traffic Control Devices

Existing traffic control devices that are removed shall be re-erected as soon as possible. Damaged or lost traffic control signs shall be reported to the Sign Shop 847—362—3962 of the Lake County Division of Transportation for replacement.

Regulatory and warning traffic signs shall be kept in view of the highway traffic.

Existing Drainage and Access

Disturbed highway drainage facilities shall be re-established at the close of each workday. Occupants of adjacent properties having access to the County Highway shall be notified prior to being blocked and suitable arrangements made with the occupants. Adjacent property occess shall be re-established as soon as possible.

Care shall be taken not the break, crack or damage the highway povement with equipment operating on it. Also, any dir of debris tracked onto the highway povement shall be removed. Equipment with grozzer pods, cleats or studs are not permitted to operate on the highway povement.

If, due to construction operations, the highway povement becomes damaged or undermined, all construction work in that area shall be stopped and the highway povement repaired as directed by the Lake County Division of Transportation. Alternate construction massures shall then be used to prevent further highway povement damage.

Excavations, Trenches and Bore Pits

Excovated material shall, when practical, be piled on the near traffic side of the excovation, trenche or bore pits remaining after working hours shall not exceed 50 feet in length and shall be properly protected (feeding, covered, etc.) and marked (Type I or Il barriades). If barriades are used in series, only steady burning lights shall be used. Bore pits shall be located no closer than 10 feet to the highway powement, back of curb or gutter, or shoulder break line, whichever is further. If cosing pipes are used, the voids in the casing pipe shall be filled and/or the ends sealed so there will be no silication into the casing pipe.

Manholes, Valves, Valve Vaults and Appurtenances

The top of the frame and lid or cover of a manhole, valve, or valve vault shall be flush and contoured to the surrounding ground. If this is not possible due to an excessive slope, the surrounding ground shall be regraded or the frame and lid or cover partially buried to provide for a gradual transition slope so the area can be safely mowed and no hazard to the public will result. The top of the frame and lid or cover that is located within the grovel shoulder shall have a asphalt apron installed around the frame or cover as directed by the Lake County Division of Transportation. Any frame and lid or cover located in a proved erac shall be contaured and ki, inch below the surface of the surrounding povement. The top of frame and lid or cover shall not be located within the area of 27.5 feet to 30.5 feet from the highway povement

Surface appartenances that extend above the surrounding ground surface shall be located within two feet of the County Highway right—of—way.

Tile Lines and Storm Sewers

Existing tile lines and storm sewers that are encountered during construction operations shall be replaced if broken with like size and kind of material. Tile line and storm sewer crossings of the excavation shall be bridged with rigid materials such as wood or steel. The location and depth of any encountered tile lines and storm sewers shall be recorded and a copy given to the Lake County Division of Transportation.

Winter Construction Work

Snow and ice removal operations of the Lake County Division of Transportation shall have precedence over the construction operations. A 12 foot wide (minimum) clear area from the highway povement edge shall be maintained for the roadelide storage of snow and ice. No construction equipment or materials shall be stored in this 12 foot wide (minimum) clear are nor shall any piles of dirt or excavated, materials be left in this area.

Restoration and Clean-Up

The area of the County Highway right-of-way disturbed by construction operations shall be kept to a minimum and shall be restored as promptly as weather and soil conditions permit. If restoration is not accomplished voluntarily, the Lake County Division of Transportation may set a final date for the completion of the startation work.

Turf areas of the right—of—way disturbed by construction operations shall be compacted and regraded to an equal or better condition than existed before construction. Sod shall be used in high erosion areas. This restoration work will not be considered completed until the furf cover is established.

Gravel and paved shoulders that are damoged shall be replaced as directed by the Lake County Division of Transportation. Driveways, side roads and other accesses, which are damaged, shall be restored with similar materials and thickness. The edges of excavated poved surfaces shall be sawaut prior to repair. Culverts, storm sever systems and other drainage facilities including ditches lines shall be cleaned of slitchion and debris due to the construction operations. Other areas of the right-of-way that have been disturbed such as curb and gutters shall be restored with similar materials.

Any damaged property of the County of Lake, its Division of Transportation, or of others (including utility companies) shall be repaired or replaced or the owner of the damaged property reimbursed for the costs of repairing the damaged property by the owner.

Restoration Guarantee

Any restoration work that fails within one year of completion shall be redone. Also, any settlement that occurs within one year of completion of the surface restoration work shall be filled and the surface area restored.

All roads shall remain open to traffic. The Contractor may close one lane because of construction only between the hours of 8-00 A.M. and 3:00 P.M. The Contractor shall maintain traffic during these restricted hours as shown on the Traffic Control Standards. Two lanes of traffic will be maintained between 3:00 P.M. and 9:00 A.M. and when no construction activities are being carried out. Traffic routed around construction areas shall be over paved surfaces and not over grovel shoulders.

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).

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF WAUKEGAN.

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

BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SANDBAGS ON EACH 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 "WYE" PIPE CONNECTIONS FOR PROPOSED STORM SEWER MULL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST FOR THE STORM SEWERS.

(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.

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 CITY OF WAVECON, LAKE COUNTY DIVISION OF TRANSPORATION, ALL APPLICABLE REQUIREMENTS OF THE ORDINANCES OF AUTHORIES HAVING JURISDICTION AND ALL ADDENDA THERETO SHALL GOVERN THIS WORK.
- 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.
- BE SPECIFICALLY NOTICE BOT 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 VERIFY ALL DIMENSIONS AND CONDITIONS
 AFFECTION THEIR: HURN'S WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IN
 ADMINISTRACT OF THEIR PROPERTY OF THE FRONT BEHONDERS LINE AND CONTRACTOR
 APPEARS. STANDARD SPECIAL SPECIAL SHOP STEELED FOR SHALL SCOURS WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING
 WITH ANY PART OF THE WORK AFFECTED BY COMPSSION OR DISCREPANCES.
 FAILING TO SECURE SUCH INSTRUCTION. THE CONTRACTOR WILL BE CONSIDERED TO
 HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUGHT
 OR QUESTION ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION
 PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND
 CONCLUSIVE.
- 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.
- A-6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIONS, TRAFFIC CONTROL DEVICES, AND WARRING DEVICES TO INFORM AND PROTECT THE PUBLIC DURING ALL PHASES OF CONSTRUCTION.
- SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE FROM THE TANY AND ALL MATERIALS AND DEBRIS WHICH RESULT FROM HIS CONSTRUCTION ERATIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.
- CONTRACT.

 A-10. ENSTRING LITHLITIES: WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND LITHLITY FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ROINEER AS TO THE LOCATION OF SUCH LITHLITIES AND IS ONLY MICLUPED FOR THE CONVENIENCE OF THE CONTRACTOR. THE RESINEER AND OWNER ASSIME NO RESPONSIBILITY WHATSOEVER IN RESPECT TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS RELATIVE TO THE LOCATION OF UNDERGROUND LITHLITY 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 LITHLY COMPANIES FOR REMOVING OR ADJUSTING THEM.
- A-12. 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 EMBINEER.
- A-13. EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHTS—OF—WAY ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECOPORS. THE CONTRACTOR SHALL BE RESONDBLE 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 CONFILCT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT MAY BE RESQUEED.

I.D.O.T. GENERAL NOTES

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

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING

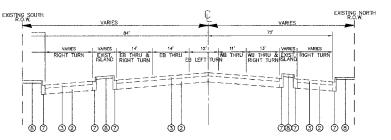
THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847)705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

- WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRANNAGE STRUCTURES, DITOMES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WAIRER IS OBSTRUCTED, THE LOOSE MATERIAL WILL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRANNAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED NOIDENTAL TO THE CONTRACTOR'S FAULRE TO PROVIDE THE ABOVE WILL PRECUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OF INSUTTABLE MATERIALS CREATED AS A RESULT THEREOF.
- A-7. 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 MILLAGE.
- A-9. CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL AREAS AFFECTED EQUIPMENT OR LABORERS TO EXISTING CONDITIONS. CONTRACTOR IS A RESPONSIBLE FOR PROTECTING ALL NEW WORK UNTIL COMPLETION OF CONTRACT.
- A-11. THE CITY OF WAUKEGAN SHOULD BE CONTACTED 48 HOURS PRIOR TO THE START OF ANY EXCAVATION. (847-625-6827)

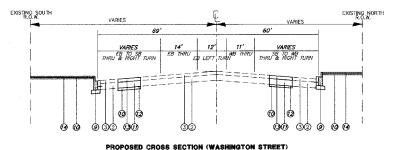
- A-15. ALL PROPOSED SIDEWALK REMOVAL, COMBINATION CURB AND GUTTER REMOVAL, PCC SIDEWALK, 5" AND COMBINATION CONCRETE CURB AND GUTTER B6.12 OR 86.24 [DENTRIED ON THE TEMPORARY TRAFFIC SIGNAL INSTALLATION OR THE TRAFFIC SIGNAL MODERNIZATION PLANS SHALL BE MARKED IN THE FIELD BY THE RESIDENT ENGINEER.

IMPORTANT NOTE: ALL CROSS SECTIONS ARE LOOKING WEST.

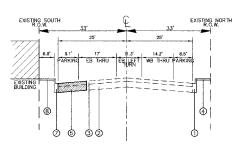




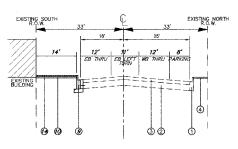
EXISTING CROSS SECTION (WASHINGTON STREET) STA. 104+00 TO 107+00



STA. 104+00 TO 107+00 **WASHINGTON STREET AT LEWIS AVENUE**



EXISTING CROSS SECTION (WASHINGTON STREET) STA. 124+50 TO 126+50



PROPOSED CROSS SECTION (WASHINGTON STREET) STA, 124+50 TO 126+50

WASHINGTON STREET AT BUTRICK STREET

LEGEND

- (1) EXISTING COMBINATION CURB & GUTTER
- 2 EXISTING P.C.C. BASE COURSE
- (3) EXISTING BITUMINOUS OVERLAY
- (4) EXISTING P.C.C. SIDEWALK (5) PAVEMENT REMOVAL
- 6 DRIVEWAY PAVEMENT REMOVAL
- (7) COMBINATION CURB AND GUTTER REMOVAL
- (8) SIDEWALK REMOVAL
- (9) COMBINATION CONCRETE CURB AND GUTTER, B6.12
- (O) AGGREGATE BASE COURSE, TYPE A, 4" (17) PORTLAND CONCRETE CEMENT BASE COURSE, 8"
- (2) BITUMINOUS MATERIALS (PRIME COAT)
- (3) HOT-MIX SURFACE COURSE, MIX "D" N70 (4) PORTLAND CEMENT CONCRETE SIDEWALK, 5"

LANS PREPARED BY:

GEWALT HAMILTON

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

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

C-2. PAVING WORK SHALL INCLUDE FINAL SUB-GRADE SHAPING AND PREPARATION, FORMING, PLACEMENT OF BASE COURSE MATERIALS, AND SUBSEQUENT BINDER AND YOR SUBFACE COURSES, FINISHING AND CURING OF CONCRETE, FINAL CLEAN-UP AND ALL RELATED WORK.

DENOTES A REFERENCE TO A PAY ITEM INCIDENTAL TO THE CONTRACT OR ANOTHER PAY ITEM WITHIN THE CONTRACT.

PAVING AND GRADING NOTES

- AND ALL RELATED WORK.

 C. 3. PAVENENT DESIGN SHALL BE AS DETAILED PRIOR TO THE PLACEMENT OF ANY STONE BASE ALL SUBBASE SHALL BE COMPACTED WITH A SELF-PROPELLED SHEEPFOOT OF MARKOTOR (CAT 15 OR LARGER) TO A MINIMUM DEPOSITY OF SEX MODIFIED PROCTOR. TESTING SHALL BE BY NUCLEAR DENSITY TEST AND PROOF PROLING. THE CONTRACTOR SHALL PROOF ROLL THE SUBGRADE BEFORE PAYMENT CONSTRUCTION PROCEDS. THE PROOF ROLL MUST BE WITNESSED BY THE ENGINEER AND ACCEPTED WITHOUT PROOF ROLLING. THE PROOF ROLLING WILL NOT BE APPROVED AND ACCEPTED WITHOUT PROOF ROLLING. THE PROOF ROLLING SHALL BE DONE BY A FULLY LOADED THREE—FALLE DUMP TRUCK TOCKTHER WITH LOAD WISIGHING AT LEAST TWENTY-FIVE (25) TONS. IF THE SUBGRADE OR BASE HAS FAILURE OR PUMPING SHALL BE SCARIFED AND RECOMPACTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, SUBSEQUENT PROOF ROLLING, THE AREA OF FAILURE OR PUMPING SHALL BE SCARIFED AND RECOMPACTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, SUBSEQUENT PROOF ROLLING IBE CONDUCTED UNTIL THE SUBGRADE IS FOUND TO BE ACCEPTABLE TO THE ENGINEER.
- C-4. ALL DISTURBED NON-PAYEMENT 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 CAL/SY (SS-1). PRIME COAT FOR THE BINDER COURSE SHALL BE APPLIED TO THE SUBBASE AT A RATE OF 0.25 CAL/SY (P.E.).
- C-6. 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.
- 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 FORMERER AND SHALL BE PAINTED WHERE THE CUT WAS MADE. ROOTS EXPOSED DURING EXCAVATING OPERATIONS SHALL BE NEATLY PRUNED AND COXERED 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.

HMA MIXTURE REQUIREMENTS

ITEM
HOT MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"

AC TYPE
PG 64-22

4% ◎ 70 GYR.

NAME

NOTES:
• THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ.YD./IN.
• WHEN RAP EXCEEDS 20% THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58—22

GENERAL NOTES AND TYPICAL CROSS-SECTIONS REVISIONS WASHINGTON STREET DATE TESKE BOULEVARD TO SHERIDAN ROAD

LAKE COUNTY DIVISION OF TRANSPORTATION

SCALE: NONE DATE: MAY 1, 2007

DRAWN BY: PJS DESIGNED BY: JRD CHECKED BY: BLS

 CONTRACT NO: 83932

 F.A.U. R.T.E. SECTION
 COUNTY
 TOTAL SHIETS NO.

 1223
 04-00272-00-TL
 LAKE
 72
 3

SUMMARY OF QUANTITIES ILLINOIS

LAKE COUNTY STA. 22+00 TO STA. 179+00

				<u> </u>					22100	10 317.	70100						122.11	-
									TRAFFIC	C SIGNALS	3							
								T	110/31/10	<u> </u>		T	T	T	· · · · · · · · · · · · · · · · · · ·		T	
				l .		WASHINGTON												
				WASHINGTON	WASHINGTON	STREET	WASHINGTON	WASHINGTON	WASHINGTON	WASHINGTON	WASHINGTON	WASHINGTON	WASHINGTON	WASHINGTON	WASHINGTON	INTERCONNECT	PEDESTRIAN	
				STREET	STREET	AT	STREET	STREET	STREET	STREET	STREET	STREET	STREET	STREET	STREET	FROM TESKE	CROSSING	PACE NORT
				AT	ΑT	WASHINGTON	AT	AT	AT	AT	AT	AT	· AT	AT	AT	BOULEVARD TO	AT	DIVISION
				TESKE	IL RTE 131	TERRACE /	McAREE ROAD /	LEWIS AVENUE	BUTRICK STREET	JACKSON STREET	WEST STREET	MARTIN LUTHER	COUNTY STREET	GENESEE STREET	IL RTE 137	IL RTE 137	ROBERT McCLORY	
				BOULEVARD	(GREEN BAY ROAD)	ST. THERESA	KELLER AVENUE					KING JR. AVENUE			(SHERIDAN ROAD)	(SHERIDAN ROAD)	BIKE PATH	
					1'	BOULEVARD											1	
					L										<u> </u>			<u> </u>
1	SUMMARY OF QUANTITIES								CONSTRUC	CTION CODES								
<u></u>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~											, , , , , , , , , , , , , , , , , , , 						· · · · · · · · · · · · · · · · · · ·
CODE NUMBER	ITEM	UNIT	TOTAL	1000-2A Y031-11	F 1000-2A Y031-1F	1000-2A Y031-	1F 1000-2A Y031-1	1000-2A Y031-11	F 1000-2A Y031-1	1F 1000-2A Y031-1	F 1000-2A Y031-1	F 1000-2A Y031-1F	1000-2A Y031-1F	1000-2A Y031-11	F 1000-2A 14031-1F	F 1000-2A Y031-1F	1000-2A Y031-1F	Y031-18
20200100	EARTH EXCAVATION	CU.YD.	52			7	1		30		15							1
}				<u> </u>		 		200			+ '			-		1,000		
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ.YD.	1,200					200									+	
25200110	SODDING, SALT TOLERANT	SQ.YD.	1,200				1	200								1,000		
25200200	SUPPLEMENTAL WATERING	UNIT	10													10	1 '	İ
35100300	AGGREGATE BASE COURSE, TYPE A, 4"	SQ.YD.	775					675	100									
of all the Production and the contract of the				 		ļ											1	
35300300	PORTLAND CONCRETE CEMENT BASE COURSE, 8"	SQ.YD.	775					675	100								+ '	
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	30				1	25	5									
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D" N70	TON	85					80	5								1 '	
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8"	SQ.YD.	40	1 1	 			40						1				
	A PROPERTY AND A PROP)	<u> </u>				0.500	7.050		POO.	1-300	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK, 5"	SQ.FT.	20,510		130	670	1,135	3,700	1,815	2,260	2,000	2,250	2,500	3,050		800	200	
42400800	DETECTABLE WARNING	SQ.FT.	896			96	96	96	96	96	96	96	96	96			32	
44000100	PAVEMENT REMOVAL	SQ.YD.	610					510	100								1 '	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ.YD.	110		1		20	40			50							
		1	-	 	1	 			 	1 000		050	1 075	1 270	1	+	40	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	2,845			110	195	950	200	280	275	250	275	270				
44000600	SIDEWALK REMOVAL	SQ.FT.	19,325		130	595	1,025	3,350	1,315	2,260	1,850	2,250	2,500	3,050		800	200	
550B0050	STORM SEWERS, CLASS B, TYPE 1 12"	FOOT	40					30	10						1 1			<u> </u>
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	13			t	3	3	1	1	1		5	2				
60406000	FRAME AND LIDS, TYPE 1, OPEN LID	EACH	21	 	 	2	4	+	3	2	· · · · · · · · · · · · · · · · · · ·	3	1 1	6				
		4			+	-	7	 				<u>"</u>	<u> </u>	<u> </u>				
60234700	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID (30" DEPTH)	EACH	5					4	1								+ 40	
60603800	COMBINATION CONCRETE CURB AND GUTTER, B6.12	FOOT	2,590			60	140	750	250	280	275	250	275	270			40	***************************************
60605000	COMBINATION CONCRETE CURB AND GUTTER, B6.24	FOOT	105			50	55	i i					-					
67100100	MOBILIZATION	LSUM	1									T T					'	
70101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	LSUM	1 1	A		······································												
		***************************************				135.5	0400		040.4	 	 			<u> </u>	-			
78000100	THERMOPLASTIC PAVEMENT MARKING — LETTERS AND SYMBOLS	SQ.FT.	563.9			135.5	210.0		218.4					<u> </u>	 			
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2,180		1				2,180									
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	530						530									
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	4,555		1 1	476	372	768	739	372	378	450	456	408			136	
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	650			100	100	195	105	100	20	30						
78300100	PAVEMENT MARKING REMOVAL	SQ.FT.	4,200			320	450	930	1,180	250	300	300	250	220				
									1,100		1 500	1 000	1 200	1		4,180		
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	4,519		98	105		20		11					-	4,100		-
81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	387			47	62	46	5	45	60	34	43	45				
81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	435			54	27	77	47	47	49	33	44	57				
81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	112		22	10	10	10	10	10	10	10	10	10			1	ł
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	11,286				105	63	59		86	197	230	336		10,210		
		FOOT	2,341		127	237		368	198		230	249	253	249				
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL				127	232		- Contraction of the contraction						3		1.5		
81400100	HANDHOLE	EACH	38			2	2	2	2	2	2	3	2			18	+	
81400300	DOUBLE HANDHOLE	EACH	18			2	2	2	2	2	2	2	2	2				
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	5,314		103	204	209	121	57	124	105	22	82	107		4,180		
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3	1	1										1			
85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, (SPECIAL)	EACH	9	<u> </u>	 	1	1	1	1	1 1	1 1	1	1	1				
1				 		ļ	1	+	 	1	1	1 1	1	1	1			
86400100	TRANSCEIVER - FIBER OPTIC	EACH	9	 		1 1		1 0.740					1	<u> </u>			 	
87301215	ELECTRICAL CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	16,451	1	ļ	1,72		2,318		·····	1,789		1,856	1,885		 	 	
87301225	ELECTRICAL CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	14,614		20 8	1,53	5 1,484	1,914	1,318		1,544		1,526	1,556			1	
87301245	ELECTRICAL CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	6,446			710	645	926	478	722	710	735	757	763				
87301255	ELECTRICAL CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	11,790			124		1,641			1,286	1,304	1,350	1,354				
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	1,537		104	123		81					248	348				
		-	1,557	 	107	† † 'Z	2+3	 	1 1		+ + +	1	1	1 1 1 1 1 1				
87701180	STEEL MAST ARM ASSEMBLY AND POLE 28 FT. (SPECIAL)	EACH		1	<u> </u>	 		 	1	+		 		1		1	+	
87704050	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 24 FT. (SPECIAL)	EACH	1	-		 	1						1	1		 		
87704060	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT. (SPECIAL)	EACH	1			L	1											
87704070	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 28 FT. (SPECIAL)	EACH	5				2		1	2								
87704080	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT. (SPECIAL)	EACH	5	1		1				1	2			1				
87704090	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT. (SPECIAL)	EACH	4	+		1 1			1		T			2				
		-		1		·		 		 	+	 	 		+ + -			†
87704100	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT. (SPECIAL)	EACH	7			1		1 1	1		2	11	 	1 1			 	
87704110	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT. (SPECIAL)	EACH	7									2	4	1		1		
87704120	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT. (SPECIAL)	EACH	3					2				1						
87704140	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT. (SPECIAL)	EACH	1					1										
87704150	STEEL COMBINATION WAST ARM ASSEMBLY AND POLE 44 FT. (SPECIAL)	EACH	 	 		1		<u> </u>						1				
07704100	STEEL COMMUNATION WAS ALIM ASSEMBLE AND FOLL THIS. (SELVIAL)	LAUIT		+		 	1	1	1		1	 	 		-			t
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* SPECIALTY ITEM

PLANS PREPARED BY: REVISIONS CEWALT HAMILTON

ASSOCIATES, INC.

Consulting Engineers & Surveyors

800 Forest Edge Drive

Vernon Hills, IL 60061

(847) 478-9701 Fax NAME

LAKE COUNTY DIVISION OF TRANSPORTATION

SUMMARY OF QUANTITIES

WASHINGTON STREET
TESKE BOULEVARD TO SHERIDAN ROAD

DRAWN BY: PJS DESIGNED BY: JRD CHECKED BY: BLS SCALE: NONE DATE: MAY 1, 2007

CONTRACT NO: 83932

F.A.U. SECTION COUNTY 107% SHEETS 146.

1223 04-00272-00-TL LAKE 72 4 LAKE COUNTY STA. 22+00 TO STA. 179+00 SUMMARY OF QUANTITIES

ILLINOIS

														ILL	INOIS				
										TRAFFIC	SIGNALS	5						·	
				WASHINGTON STREET AT TESKE BOULEVARD	WASHINGTON STREET AT IL RTE 131 (GREEN BAY ROAD)	WASHINGTON STREET AT WASHINGTON TERRACE / ST. THERESA BOULEVARD	WASHINGTO STREET AT MCAREE ROAL KELLER AVEN	STRI A LEWIS A	AT	WASHINGTON STREET AT BUTRICK STREET	WASHINGTON STREET AT JACKSON STREET	WASHINGTON STREET AT WEST STREET	WASHINGTON STREET AT MARTIN LUTHER KING JR. AVENUE		WASHINGTON STREET AT GENESEE STREE	WASHINGTON STREET AT T IL RTE 137 (SHERIDAN RO	FROM TES BOULEVARD IL RTE 1	KE CROSSING TO AT ROBERT McCLO	PACE NORTH DIVISION DRY
	SUMMARY OF QUANTITIES				<u> </u>		.1			L	CONSTRUCTI	ON CODES			1				
CODE NUMBER		UNIT	TOTAL	1000-2A Y031-1F	1000-2A Y031-1F	1000-2A Y031-1	F1000-2A Y03	-1F 1000-2A	Y031-1F	1000-2A Y031-1F			F1000-2A Y031-1F	F 1000-2A Y031-1F	1000-2A Y031-	1F 1000-2A Y031	-1F 1000-2A YO	31-1F 1000-2A Y031	-1F Y031-1F
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	140	1		16	1		16	4	16	16	16	16	16			8	
<u> </u>	CONCRETE FOUNDATION, TYPE C	FOOT	36			4			4	4	4	4	4	4	4				
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	4		4		1			15				+					
87800400 87800415	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15 525			60		0	60	15 45	60	60	60	60	60				
87900200	DRILL EXISTING HANDHOLE	EACH	8	1	3		†		- 55	10	00		1			-		4	
88030020	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	54			6		1	4	6	6	. 6	7	7	8				
88030050	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	18			2				2	2	2	3	3	4				
88030100 88030110	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, BRACKET MOUNTED SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH .	18			2			4	2 2	2	2	1 1	1 1					
88102717	PEDESTRIAN SIGNAL HEAD, L.E.D., 1—FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	66	 		8		3	8	2	8	8	8	8	8				
88102747	PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	3							3									
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	72			8			8	8	8	8	8	8	8				
88700200	LIGHT DETECTOR	EACH	18	 		2	-	2	2	2	2	2	2	2	2	- 			
88700300 88800100	LIGHT DETECTOR AMPLIFIER PEDESTRIAN PUSH-BUTTON	EACH EACH	74			1 8			1 8	1 8	8	8	8	8	8	+		2	
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	9			1	 		1	1 1	1	1	1	1	1				
89100400	illuminated sign, l.e.d.	EACH	4								4								
	MODIFY EXISTING CONTROLLER	EACH	2		11		_									1			
89502375 89502380	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE EXISTING HANDHOLE	EACH EACH	9			1			1 13	9	1	1 1	10	1 8	9				
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	72	 		8 9		,	13	8	9	6 9	5	5	5				
X0322925	ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1C	FOOT	16,202														16	3,202	
X0322929	CAMERA MOUNTING ASSEMBLY	EACH	1 1		1														
	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1-1-	ļ			<u> </u>							-				1	
X0329851 X6700405	FIBER OPTIC PATCH PANEL ENGINEER'S FIELD OFFICE, TYPE A (MODIFIED)	EACH CAL MO	6	1.	1								-						
X8050015	SERVICE INSTALLATION, POLE MOUNT	EACH	10		1	1		1	1	1	1	1	1	1 1	1				
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	4,614			471	58	32	602	350	382	472	556	600	599				
X8730250	ELECTRIC CABLE IN CONDUIT, NO. 20 3C, TWISTED, SHIELDED	FOOT	3,696		208	439	4		453	340	356	396	369	355	362				
XX003661 XX005723	ELECTRIC CABLE IN CONDUIT, COAXIAL VIDEO DETECTION SYSTEM, (COMPLETE INTERSECTION)	FOOT EACH	1,260		208	182	15	58	111	81	95	153	89	87	96				
XX005723	ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 16, 5 1/2 PAIR	FOOT	6,951			756		72	954	598	772	772	737	785	805				
XX005931	TRAFFIC SIGNAL POST 16 FT. (SPECIAL)	EACH	33			4		1	4	1	2	4	4	4	4			2	
XX005932	TRAFFIC SIGNAL POST 18 FT. (SPECIAL)	EACH	2								2					<u> </u>			
XX005937 XX005940	L.E.D. INTERNALLY ILLUMINATED STREET NAME SIGN REMOTE—CONTROLLED VIDEO SYSTEM	EACH EACH	36		1	4	4		1	4	1	4	4	4	4				
XX006390	VIDEO COMMUNICATIONS SYSTEM AND CABINET	EACH	10		1	,	 		 	1					 				
XX006654	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125 MM12F SM24F	FOOT	16,202														16	5,202	
XX006655	LAYER II (DATA LINK) SWITCH	EACH	9			111			1	1	1	1	1111	1	1 1				
XX006661 Δ Z0076600	UNINTERRUPTABLE POWER SUPPLY TRAINEES	EACH HOUR	1,000	1		1			1	11		1	1 1	1	1 1				
	TERMINATE FIBER IN CABINET	EACH	30		12									-	 	18			
SICLOCXX	LAYER III (NETWORK) SWITCH	EACH	1		1														
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* SPECIALTY ITEM

PLANS PREPARED BY:

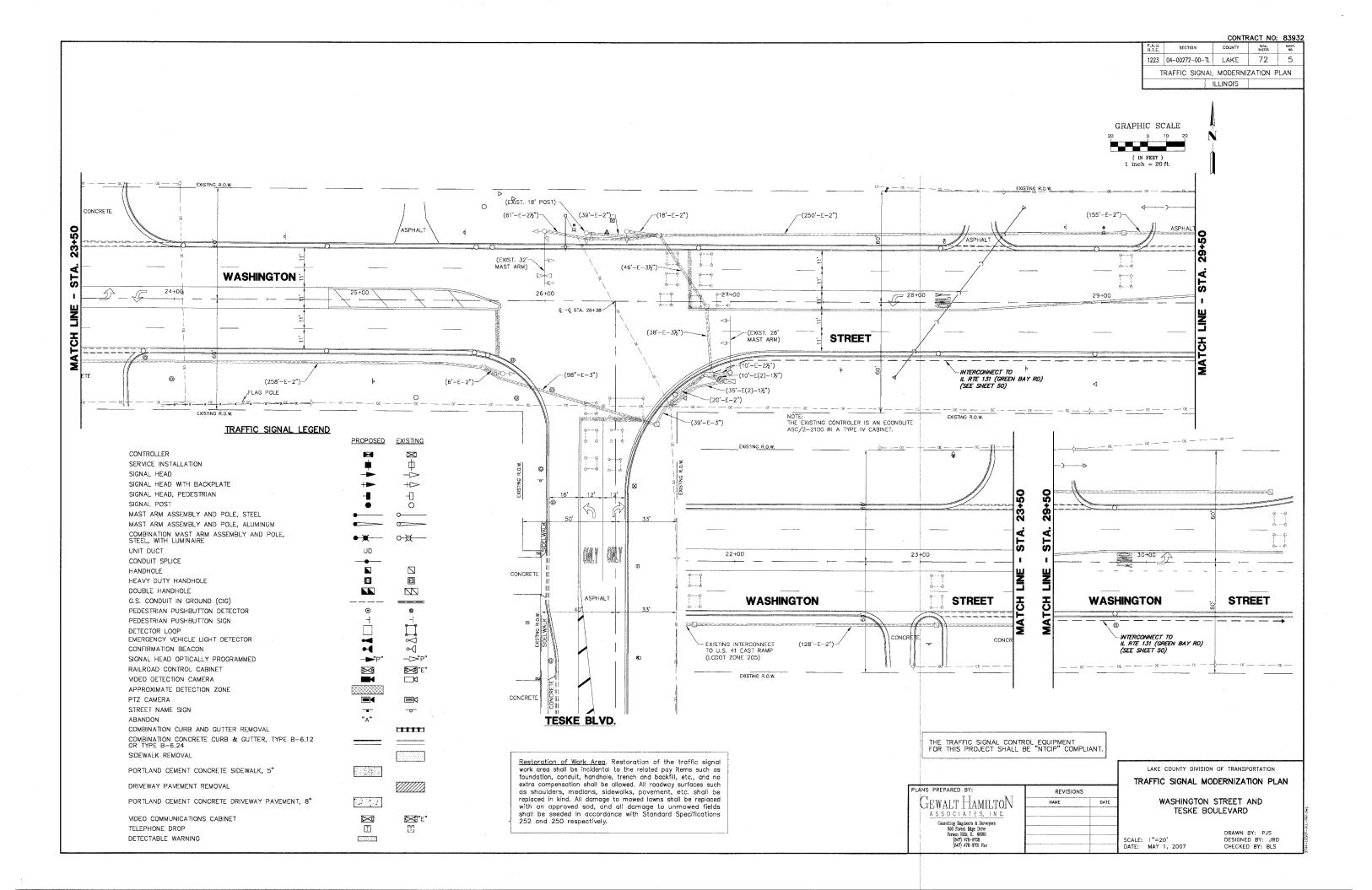
GEWALT HAMILTON

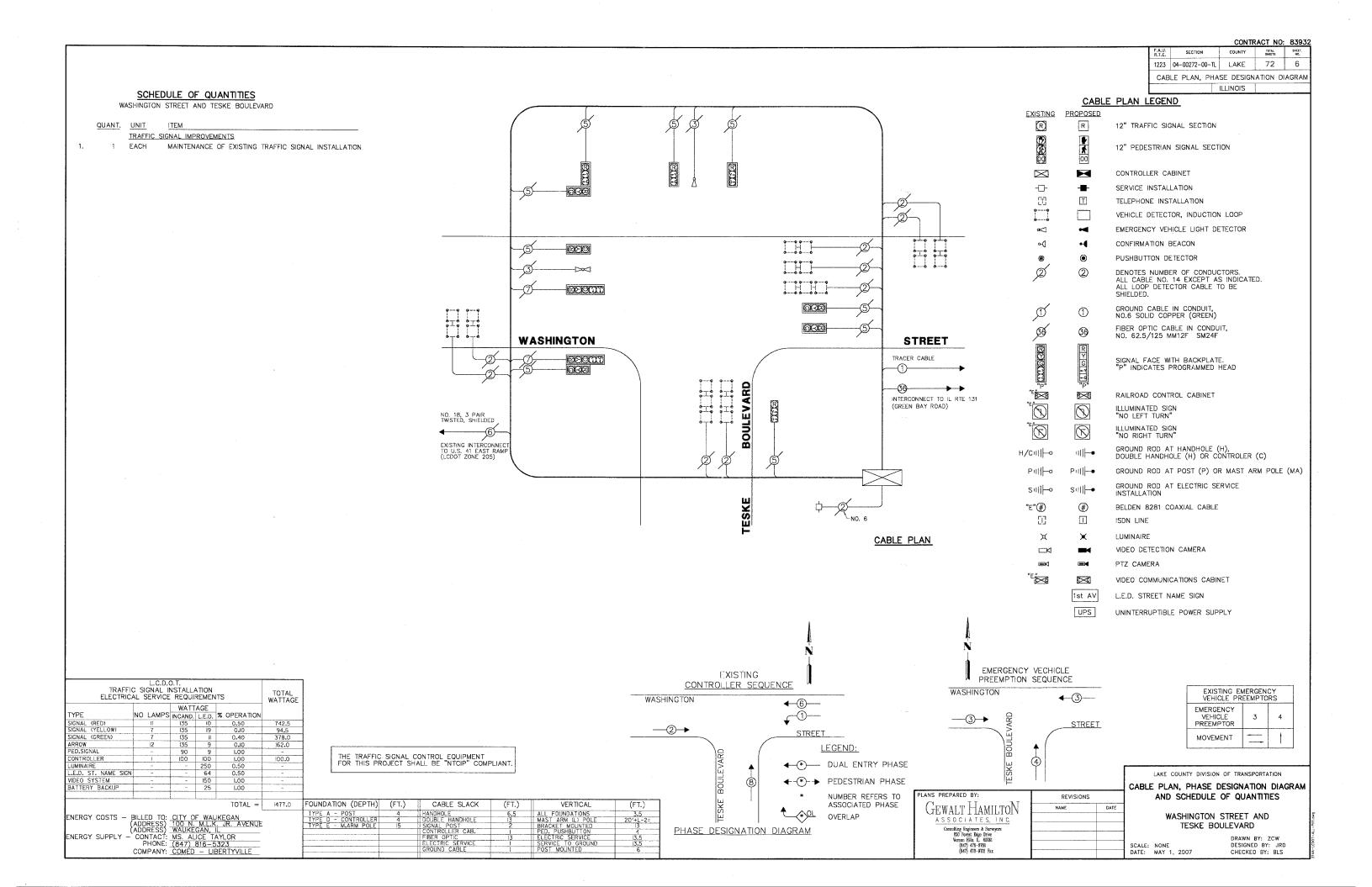
ASSOCIATES, INC. REVISIONS LAKE COUNTY DIVISION OF TRANSPORTATION SUMMARY OF QUANTITIES

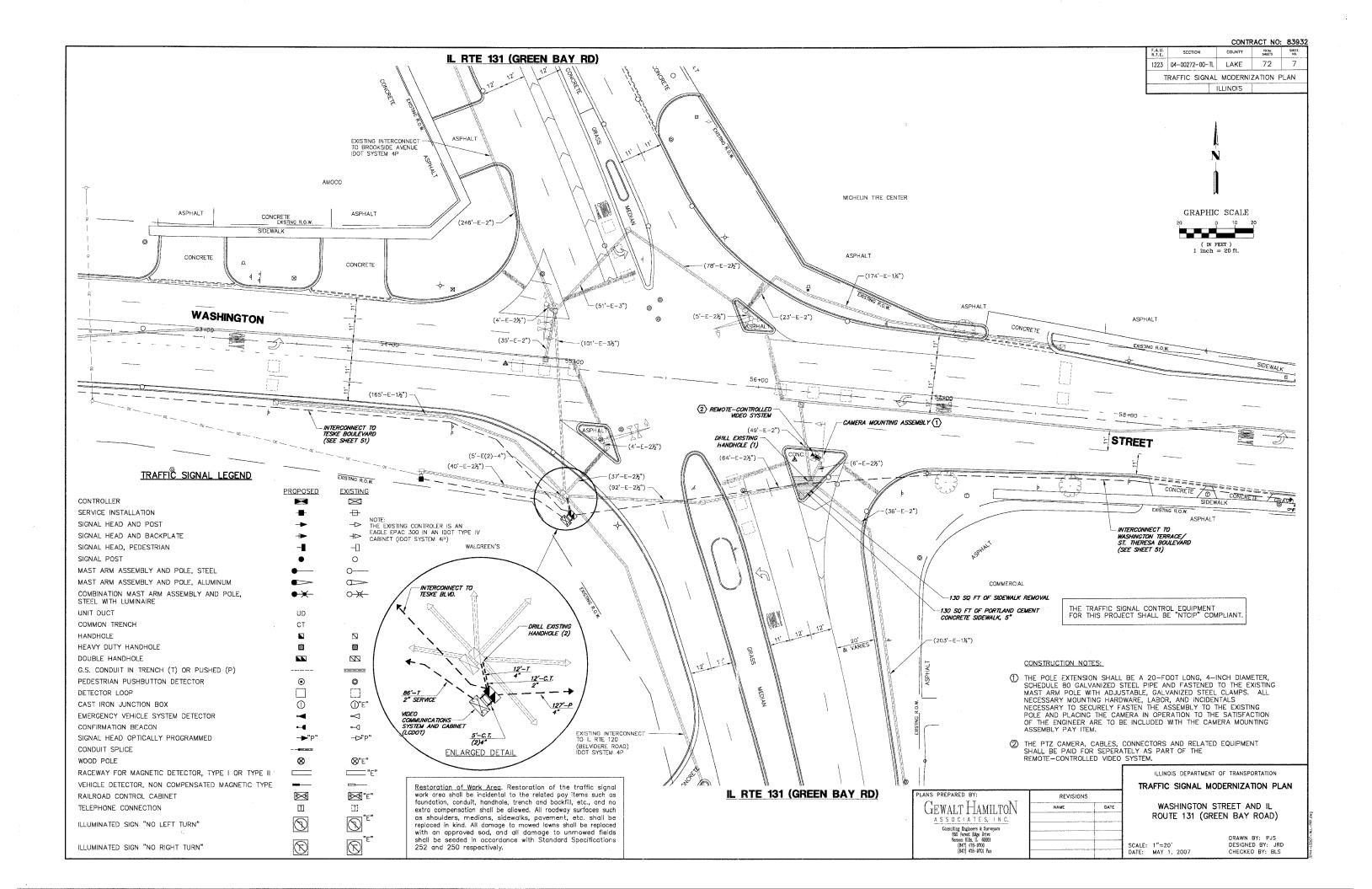
WASHINGTON STREET
TESKE BOULEVARD TO SHERIDAN ROAD

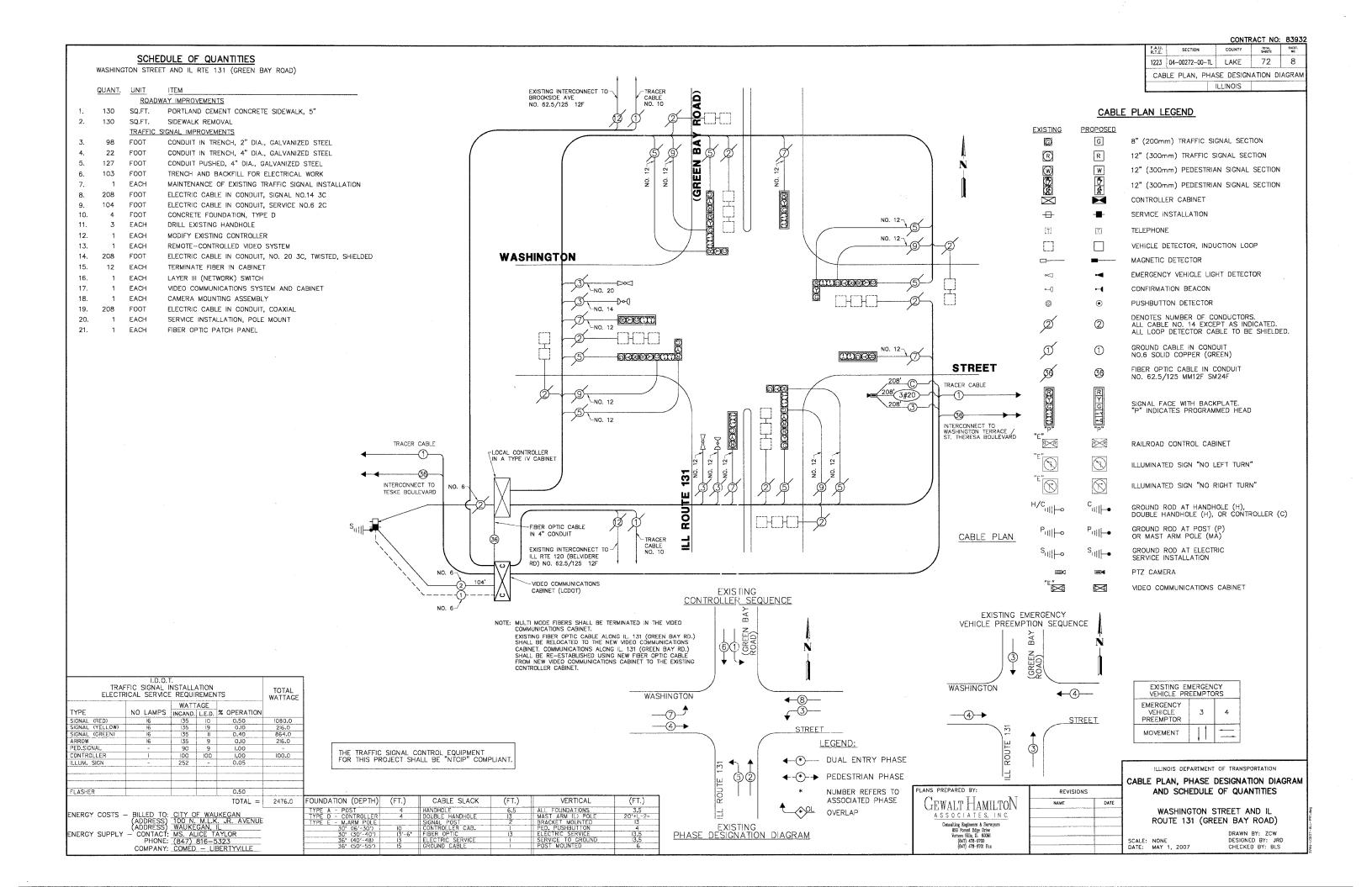
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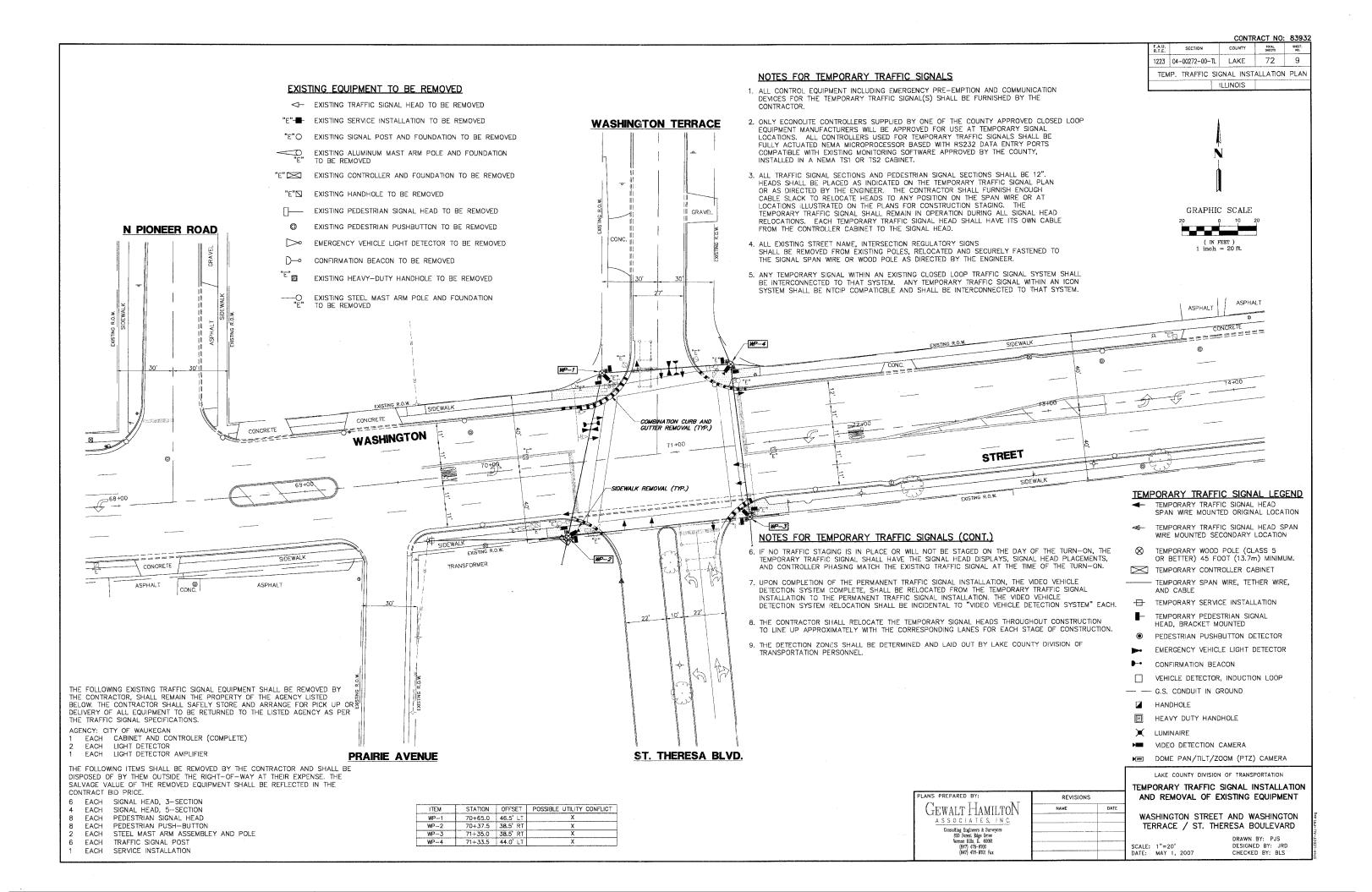
DRAWN BY: PJS DESIGNED BY: JRD CHECKED BY: BLS

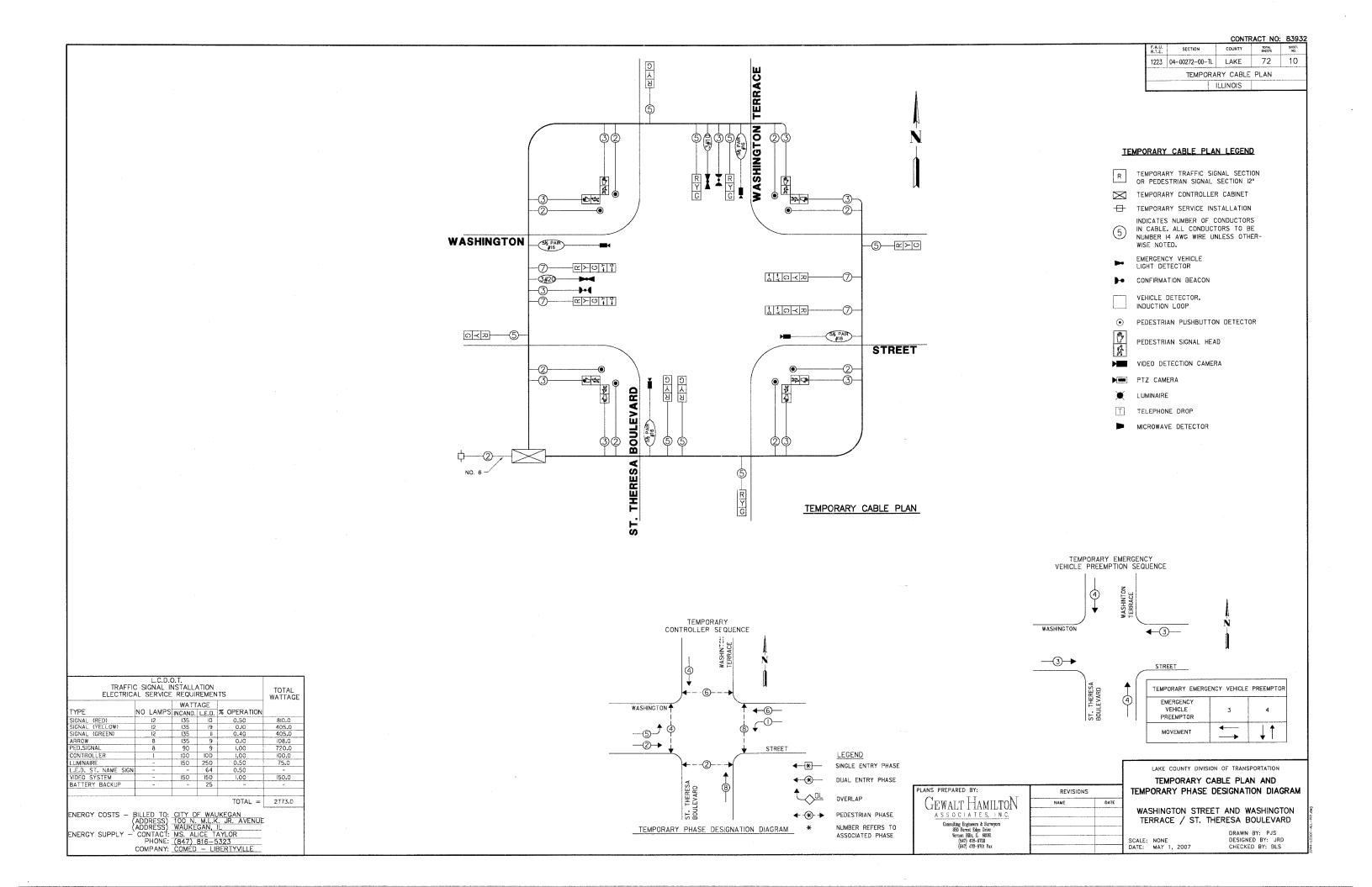


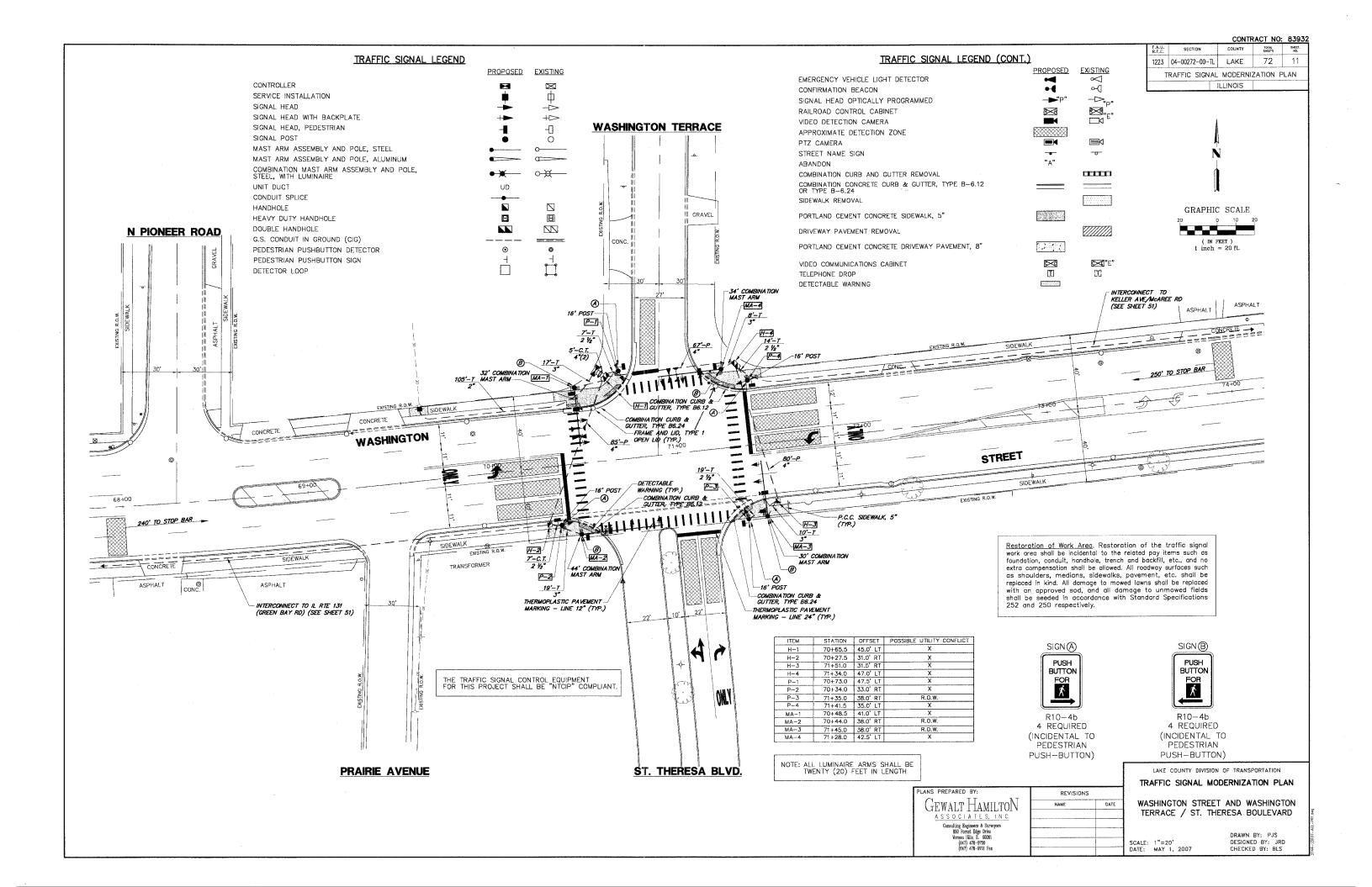


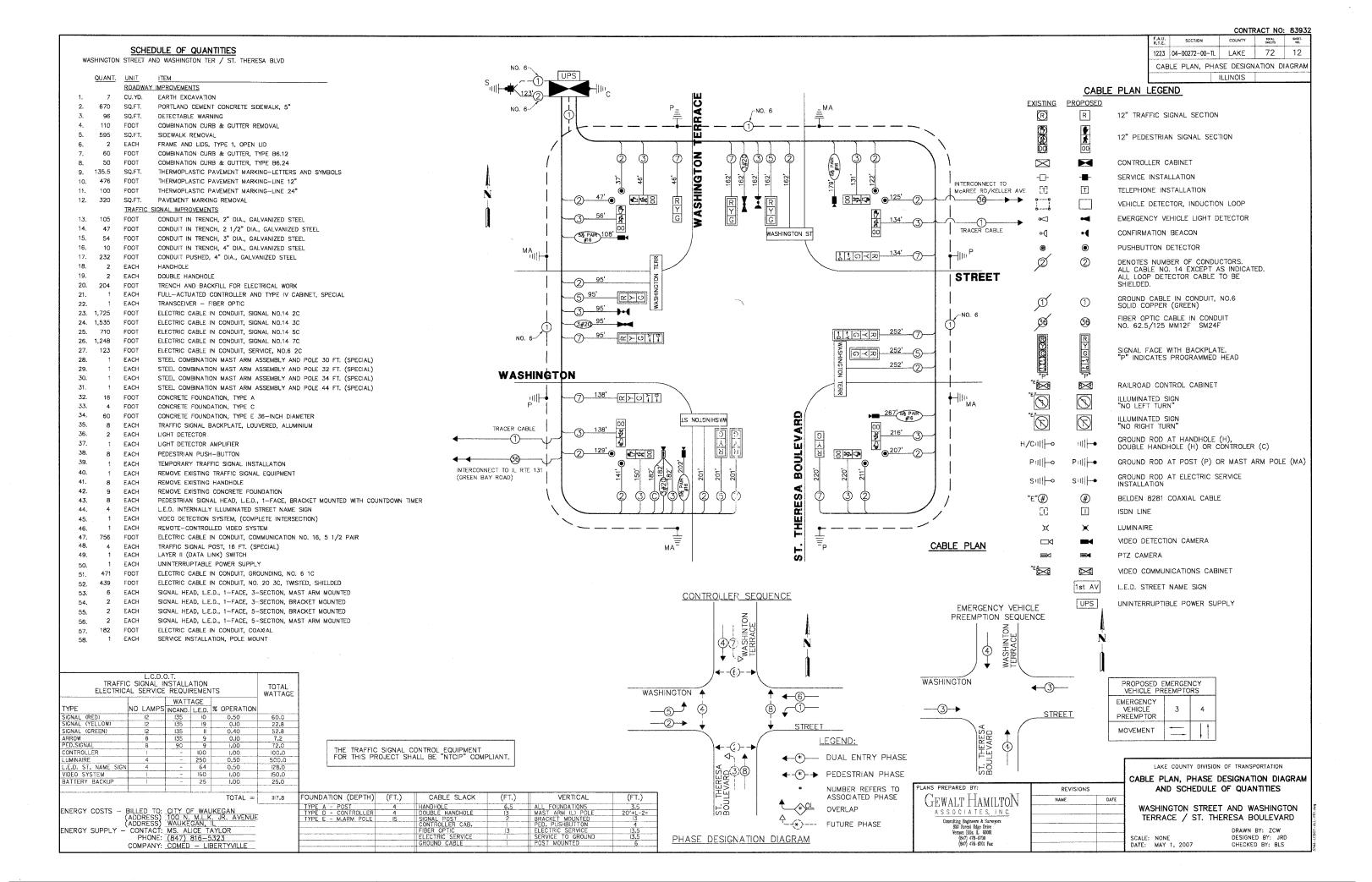


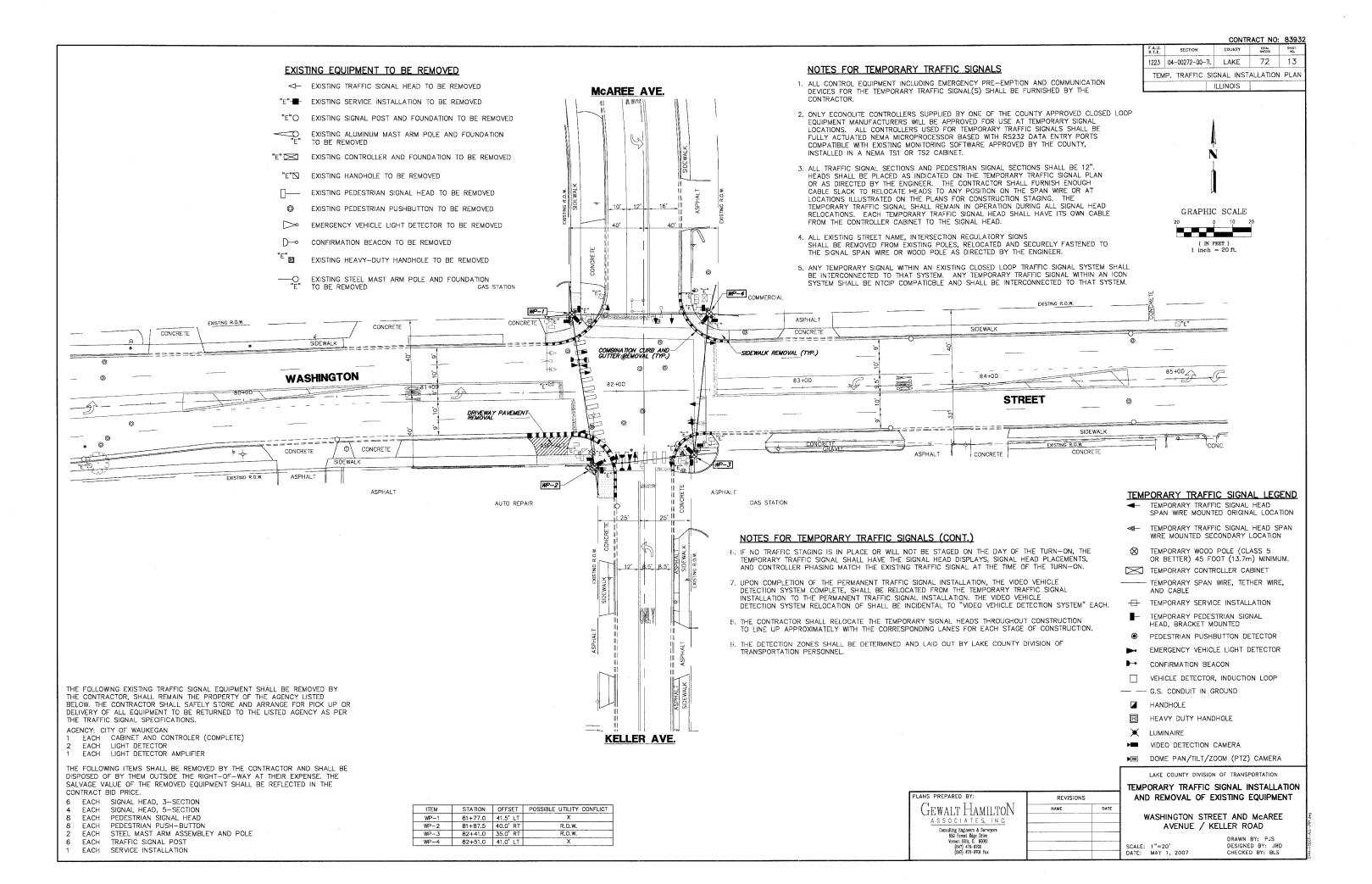


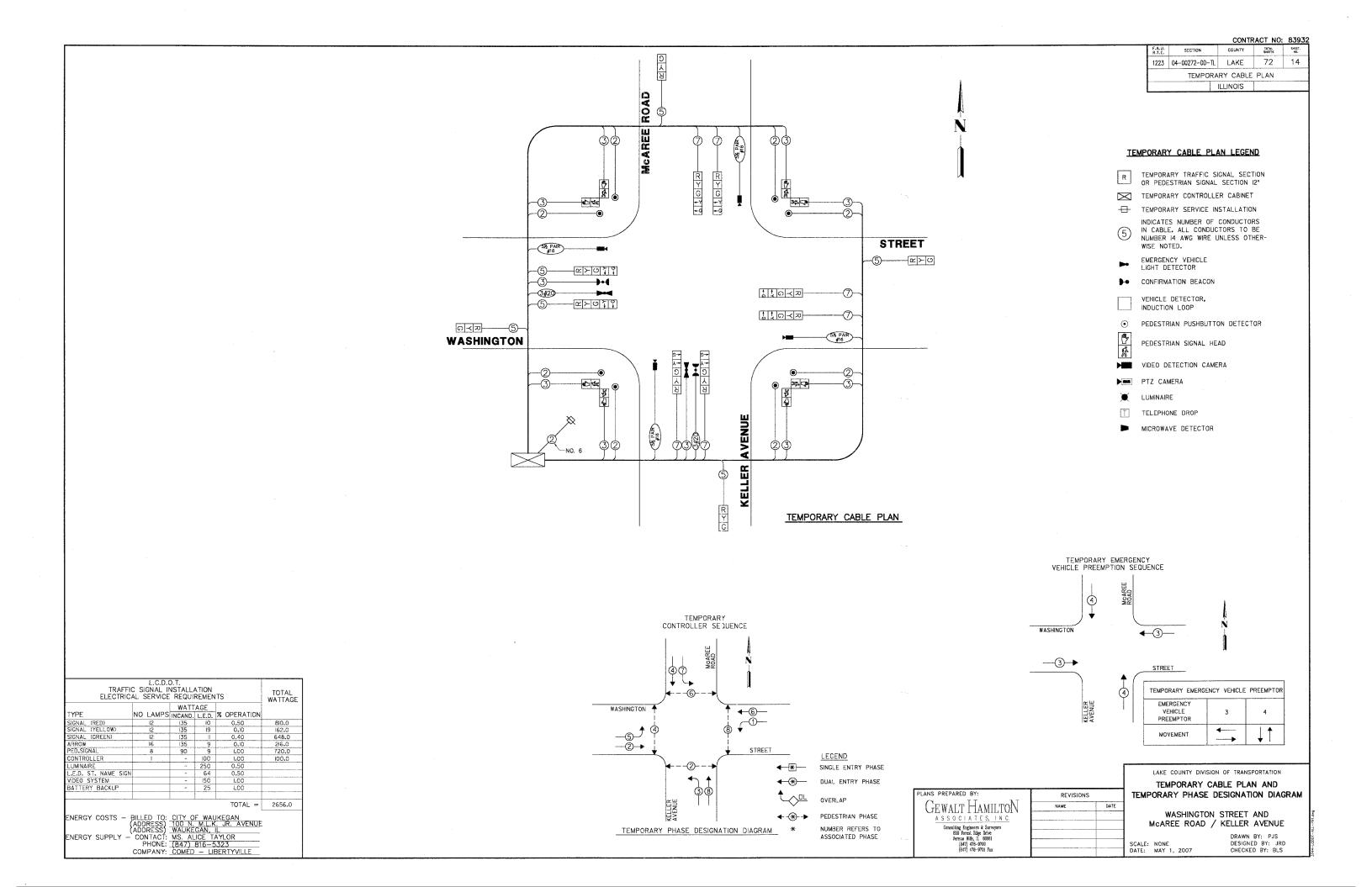


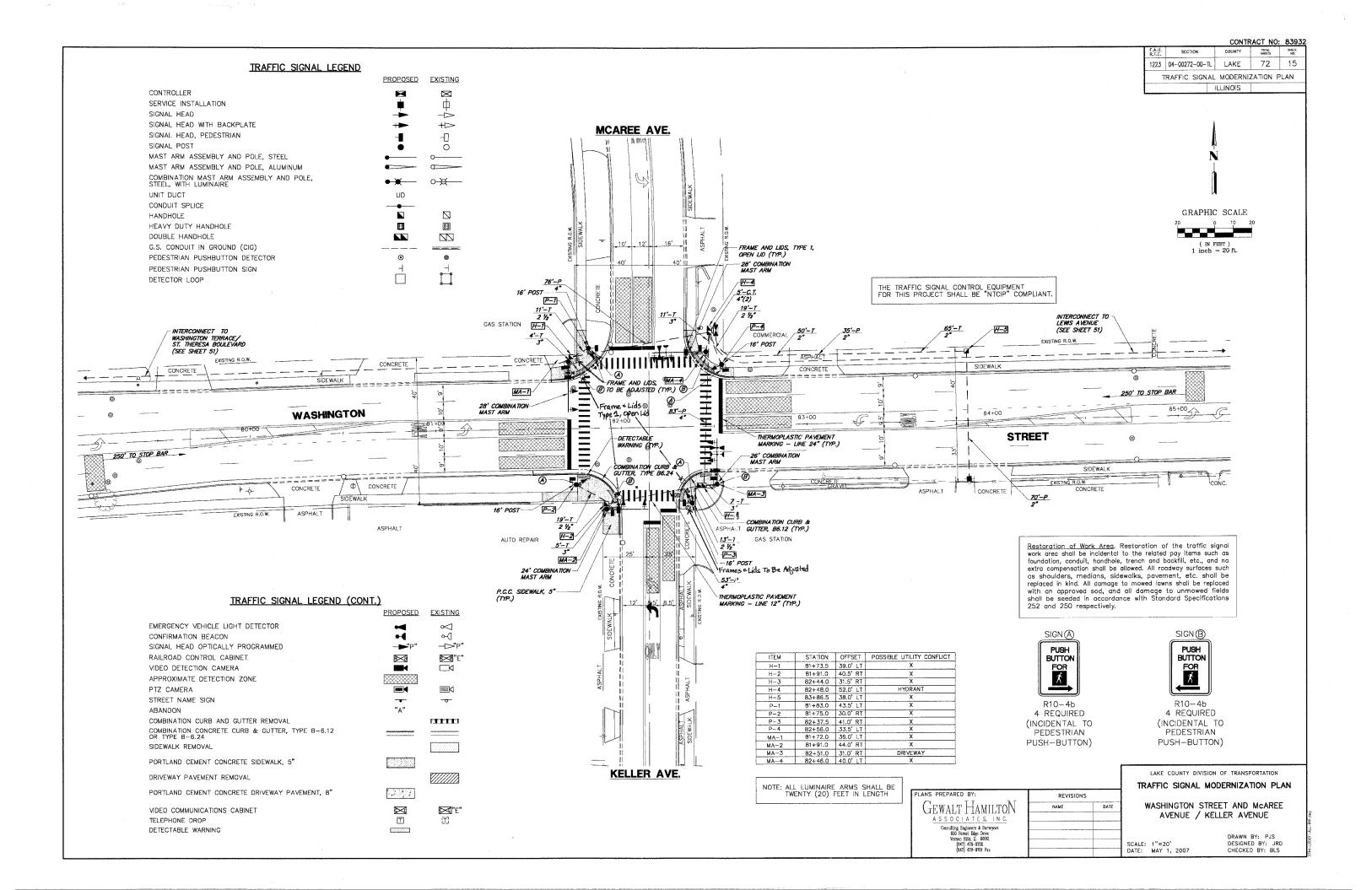


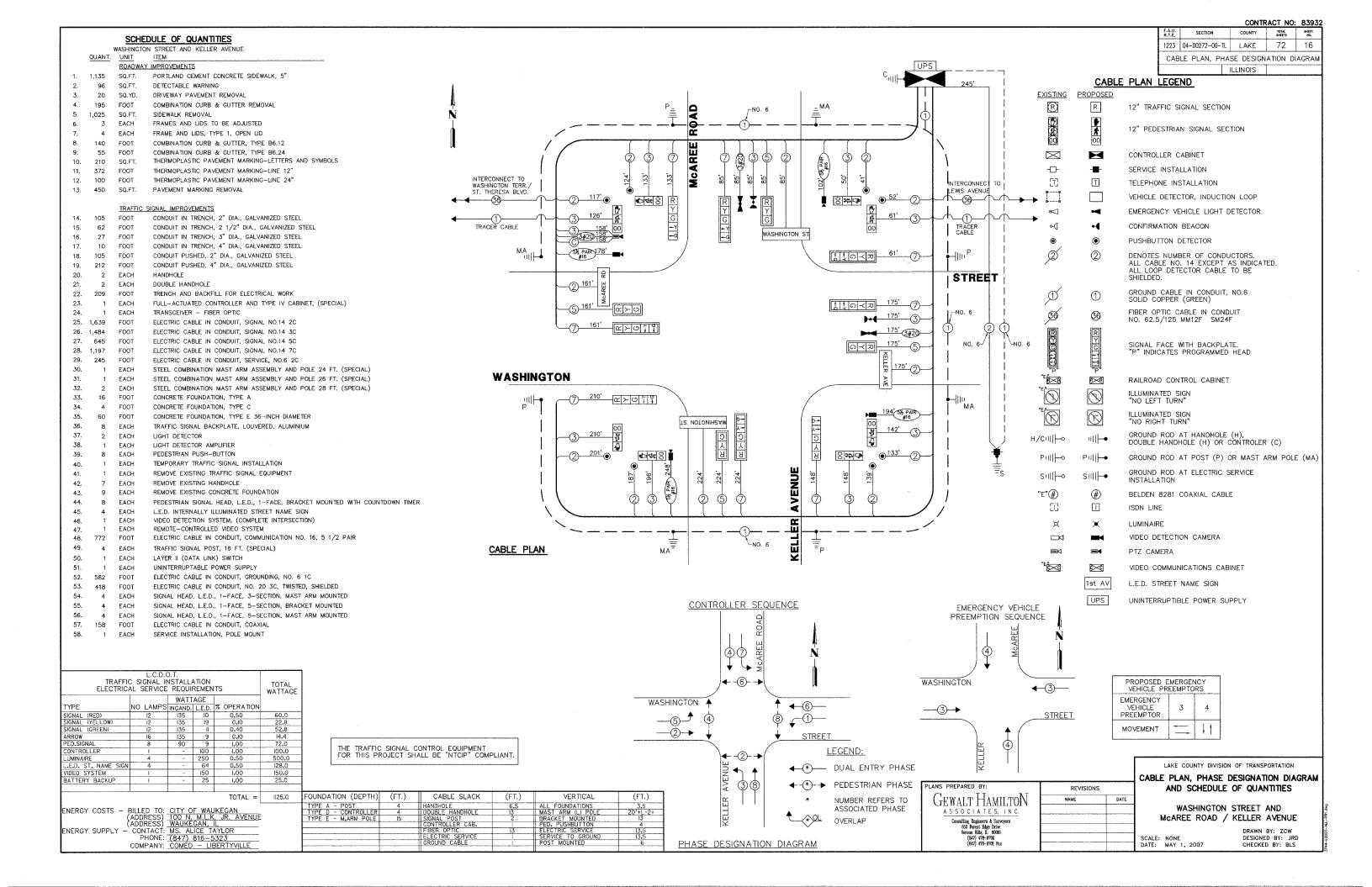


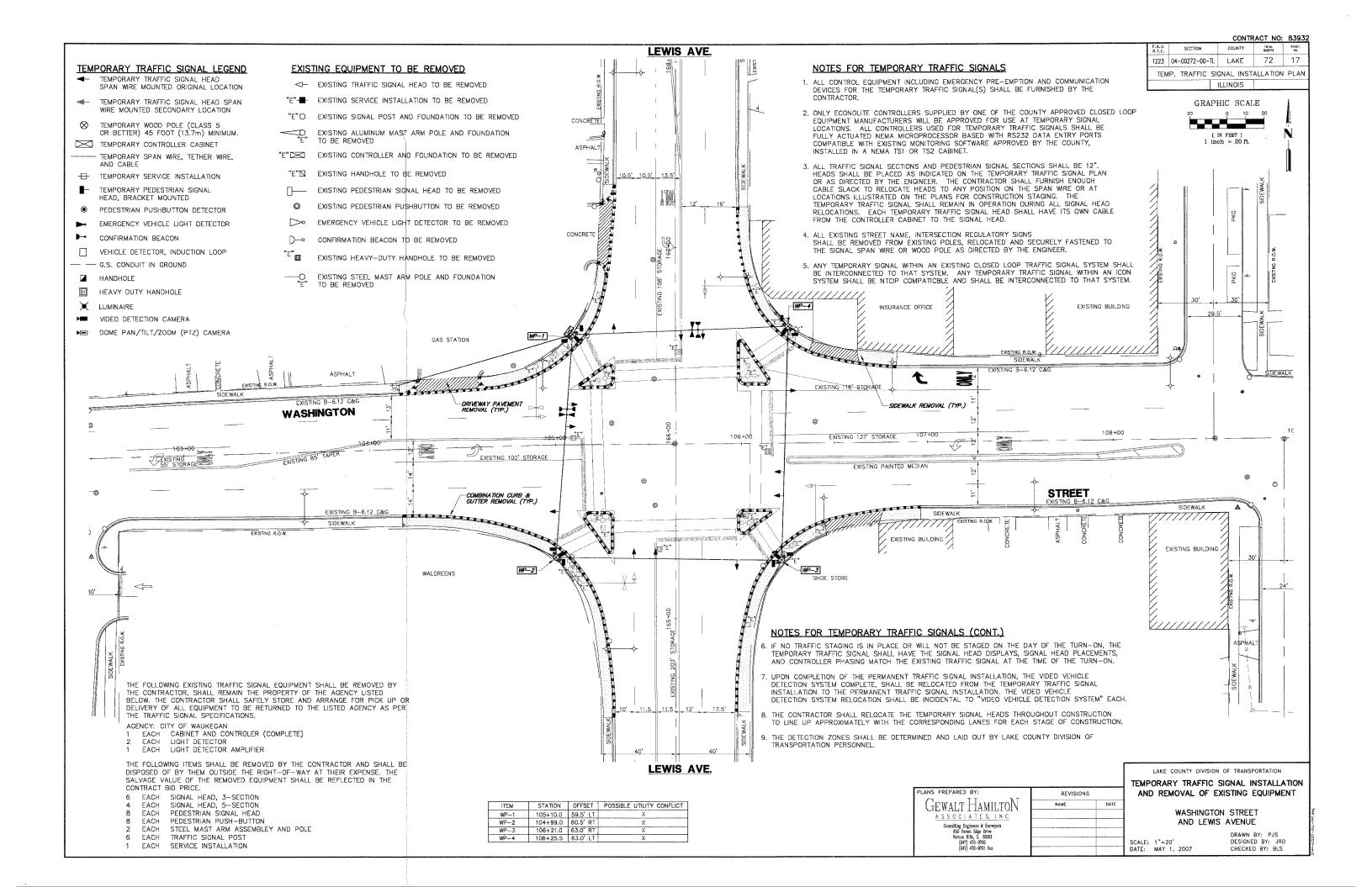


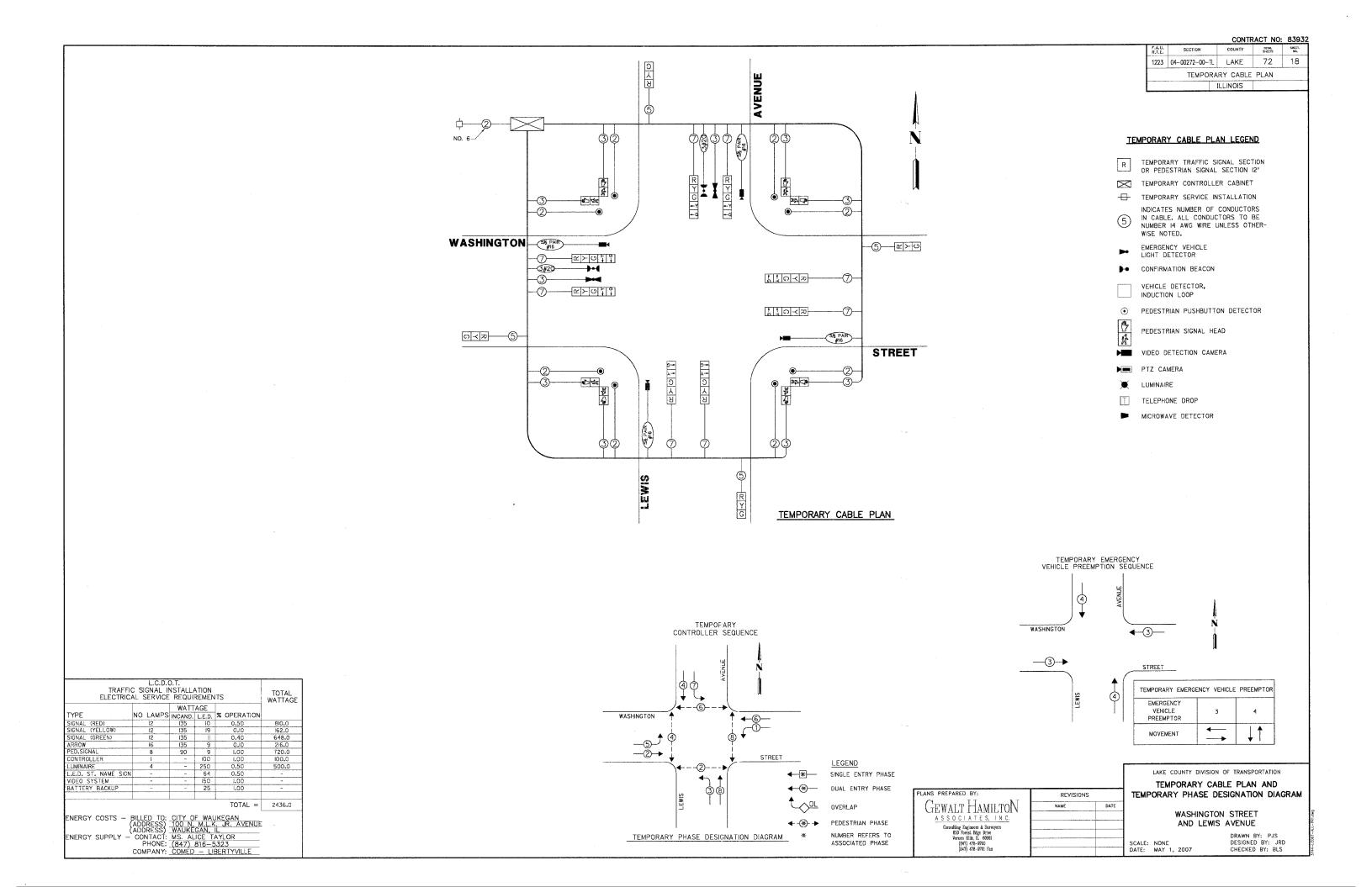


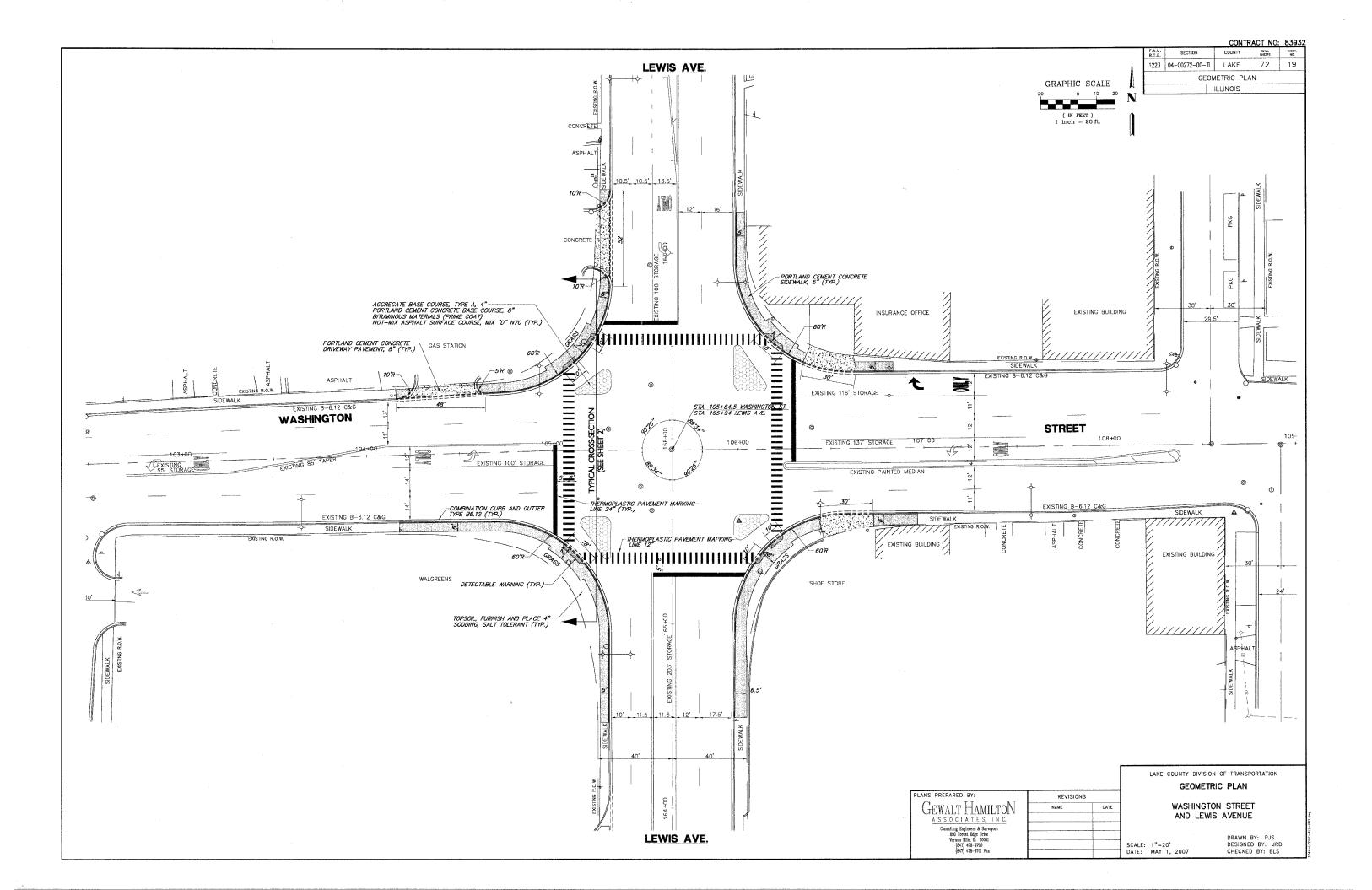


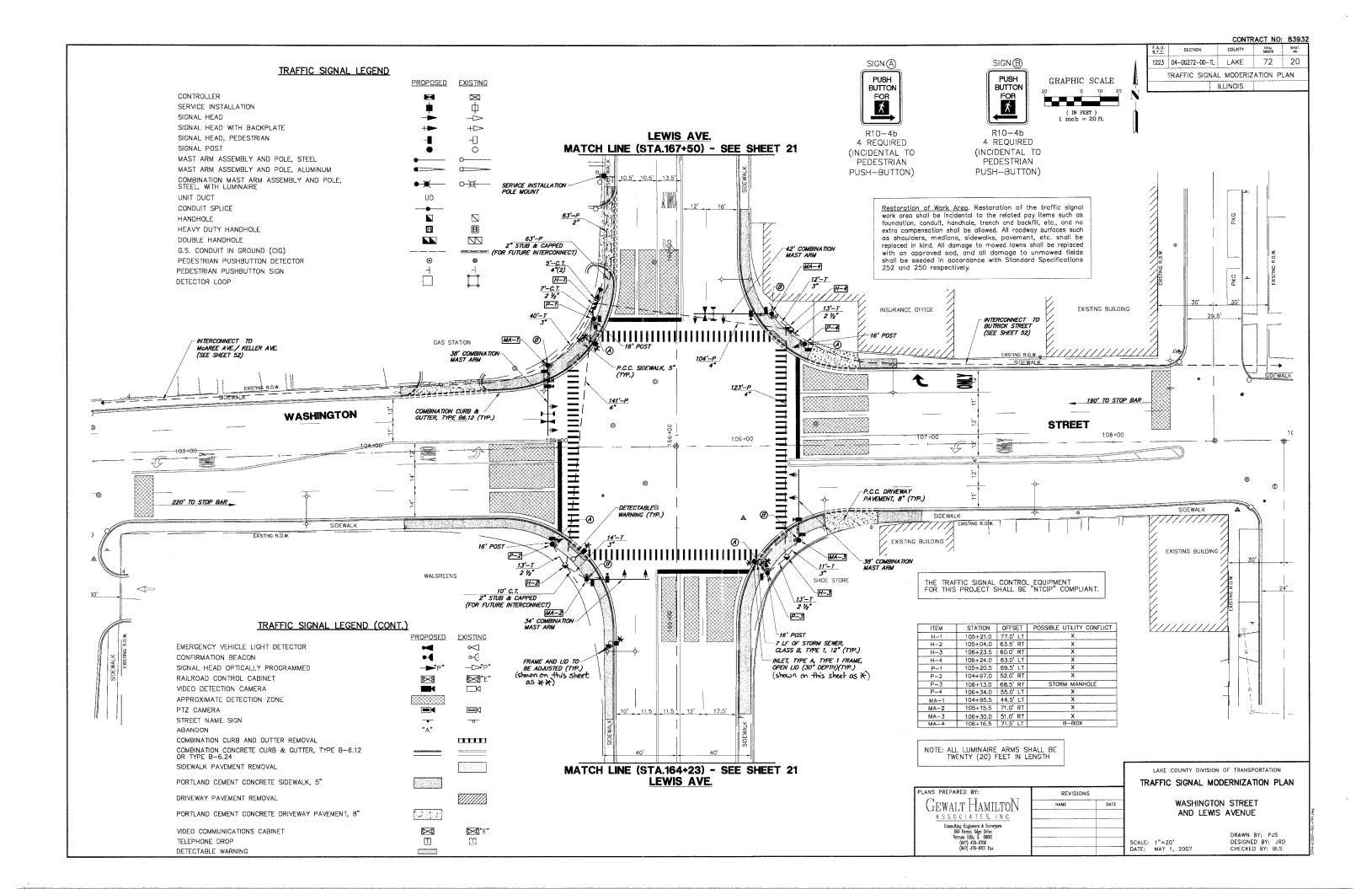




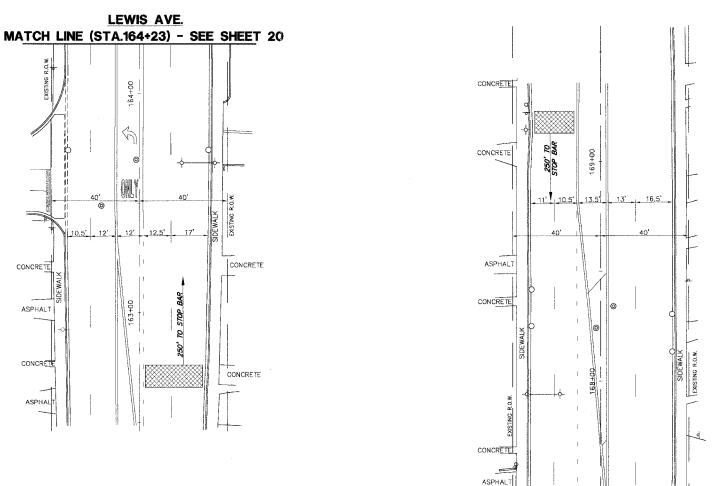








CONTRACT NO: 83932 SECTION COUNTY TOTAL SHEET. 1223 04-00272-00-TL LAKE 72 21 TRAFFIC SIGNAL MODERNIZATION PLAN ILLINOIS



GRAPHIC SCALE (IN FEET) 1 inch = 20 ft.

TRAFFIC SIGNAL LEGEND

INALTIC SIGNAL LEGEND		
	PROPOSED	EXISTING
CONTROLLER		\bowtie
SERVICE INSTALLATION	•	ф
SIGNAL HEAD	_	
SIGNAL HEAD WITH BACKPLATE	+	+
SIGNAL HEAD, PEDESTRIAN		[]
SIGNAL POST	ē	Ö
MAST ARM ASSEMBLY AND POLE, STEEL	•——	0
MAST ARM ASSEMBLY AND POLE, ALUMINUM		<u> </u>
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL, WITH LUMINAIRE	•*	<u>0 ₩</u>
UNIT DUCT	UD	
CONDUIT SPLICE		
HANDHOLE		\square
HEAVY DUTY HANDHOLE	H	
DOUBLE HANDHOLE		
G.S. CONDUIT IN GROUND (CIG)	****	
PEDESTRIAN PUSHBUTTON DETECTOR	⊚	0
PEDESTRIAN PUSHBUTTON SIGN	-	4
DETECTOR LOOP		ÏÏ
EMERGENCY VEHICLE LIGHT DETECTOR	•	\sim
CONFIRMATION BEACON	••	⊶()
SIGNAL HEAD OPTICALLY PROGRAMMED	→ "P"	▽" P"
RAILROAD CONTROL CABINET	₿	₹ "E"
VIDEO DETECTION CAMERA		
APPROXIMATE DETECTION ZONE		
PTZ CAMERA		
STREET NAME SIGN		-0-
ABANDON	"A"	
COMBINATION CURB AND GUTTER REMOVAL		
COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12 OR TYPE B-6.24		
SIDEWALK REMOVAL		
PORTLAND CEMENT CONCRETE SIDEWALK, 5"		
DRIVEWAY PAVEMENT REMOVAL		
PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8"		
VIDEO COMMUNICATIONS CABINET		∑ ≪0"E"
TELEPHONE DROP		M
DETECTABLE WARNING		

DETECTABLE WARNING

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "NTCIP" COMPLIANT.

CONCRETE

ASPHALT

CONCRETE

ASPHALT

Restoration of Work Area. Restoration of the traffic signal work area shall be incidental to the related pay items such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. All roadway surfaces such as shoulders, medians, sidewalks, pavement, etc. shall be replaced in kind. All damage to mowed lawns shall be replaced with an approved sod, and all damage to unmowed fields shall be seeded in accordance with Standard Specifications 252 and 250 respectively. 252 and 250 respectively.

NOTE: ALL LUMINAIRE ARMS SHALL BE TWENTY (20) FEET IN LENGTH

MATCH LINE (STA.167+50) - SEE SHEET 20 LEWIS AVE.

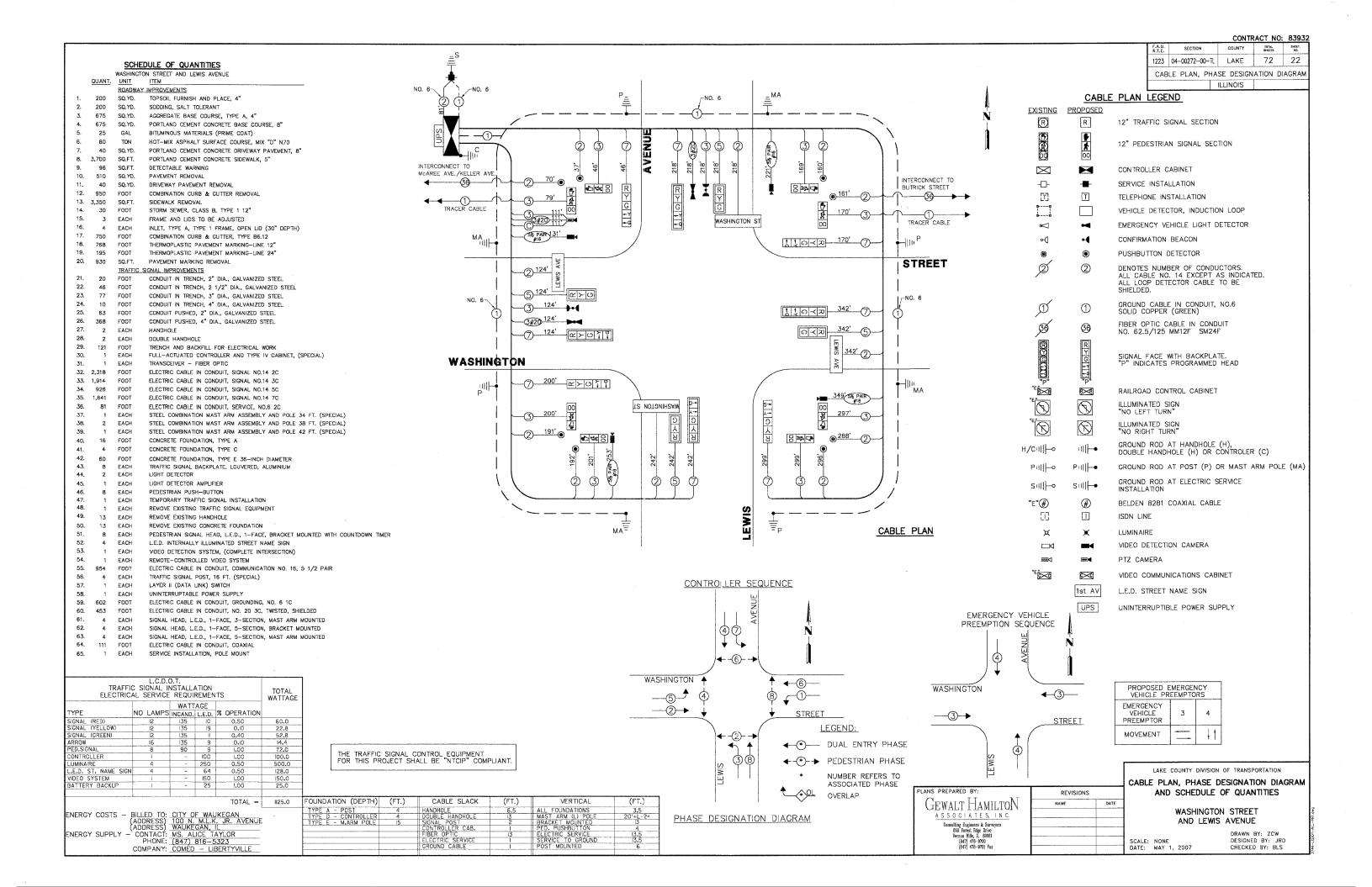
> PLANS PREPARED BY: REVISIONS GEWALT HAMILTON ASSOCIATES, INC. Consulting Engineers & Surveyors 850 Forest Edge Drive Vernon Hills, II. 60061 (847) 478-9700 (847) 478-9701 Fax

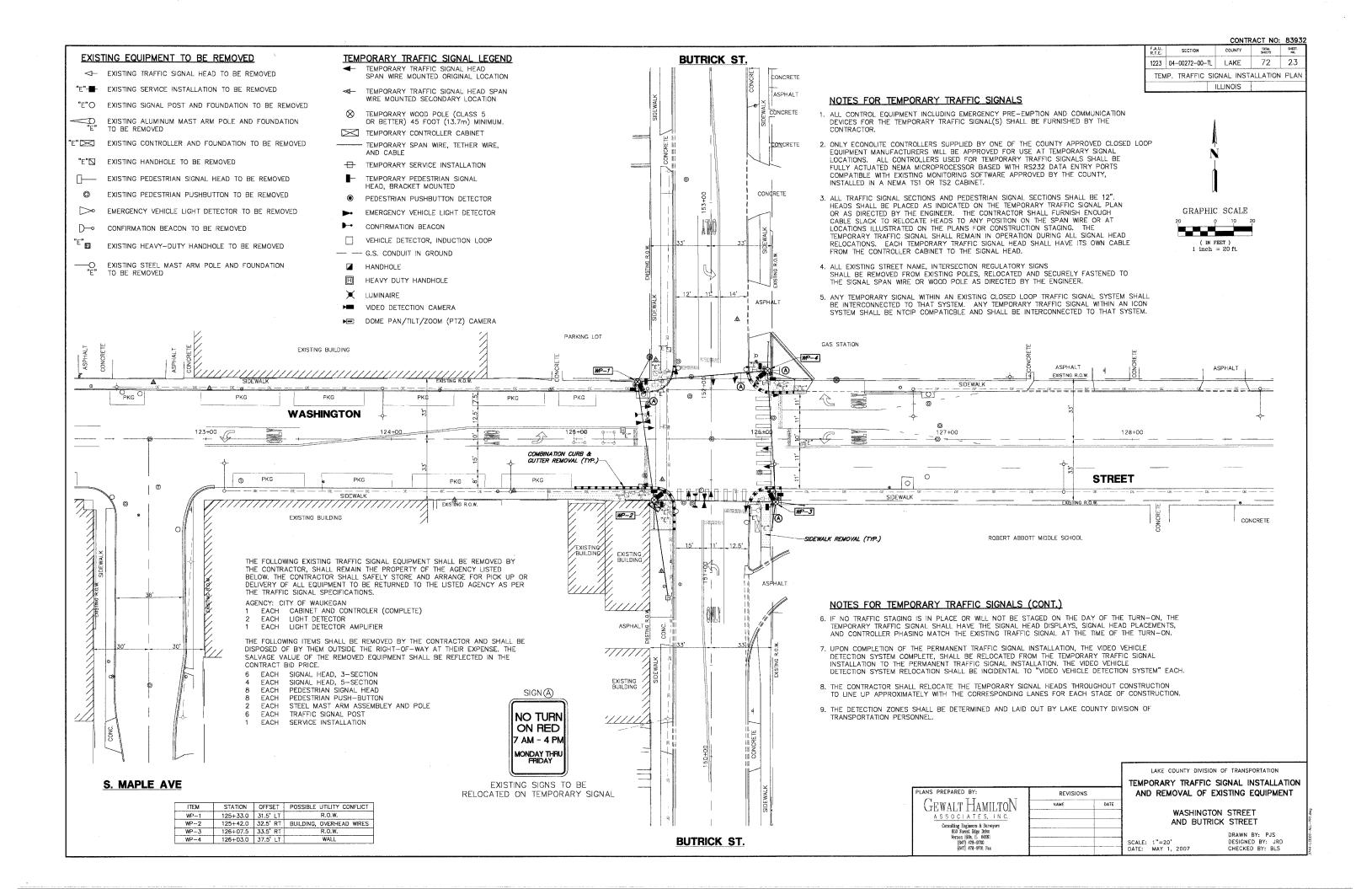
LAKE COUNTY DIVISION OF TRANSPORTATION TRAFFIC SIGNAL MODERNIZATION PLAN

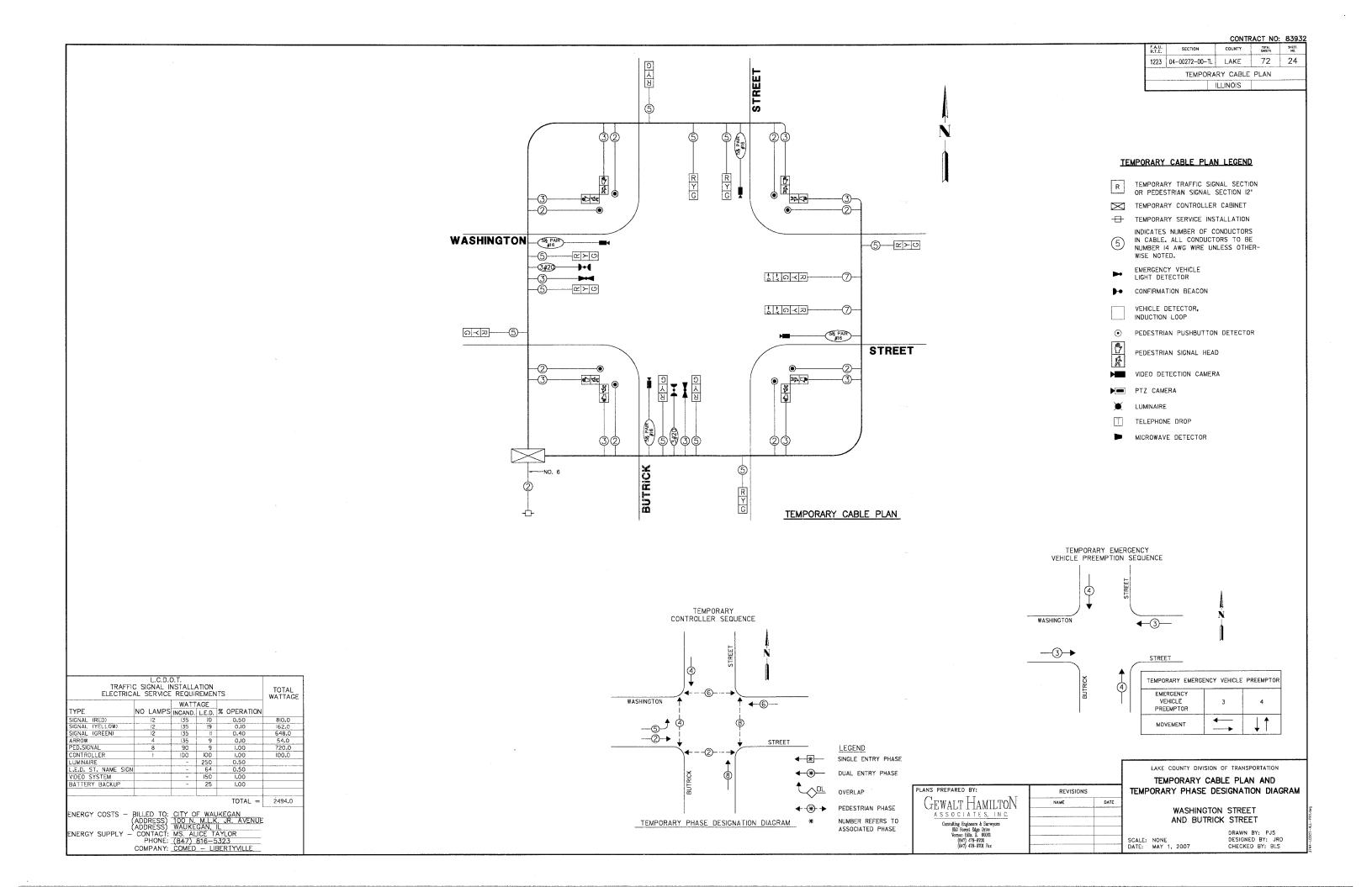
WASHINGTON STREET AND LEWIS AVENUE

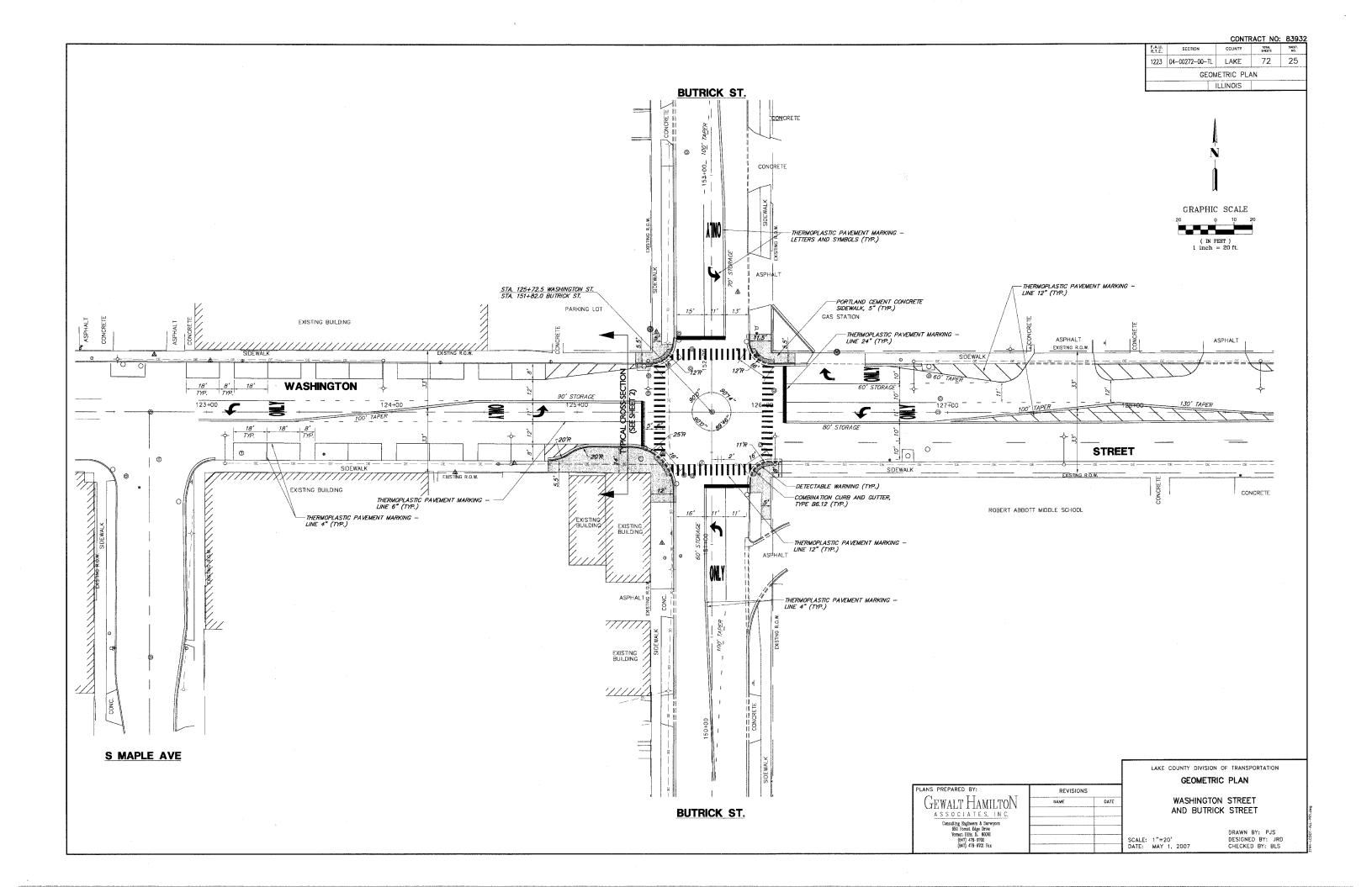
SCALE: 1"=20' DATE: MAY 1, 2007

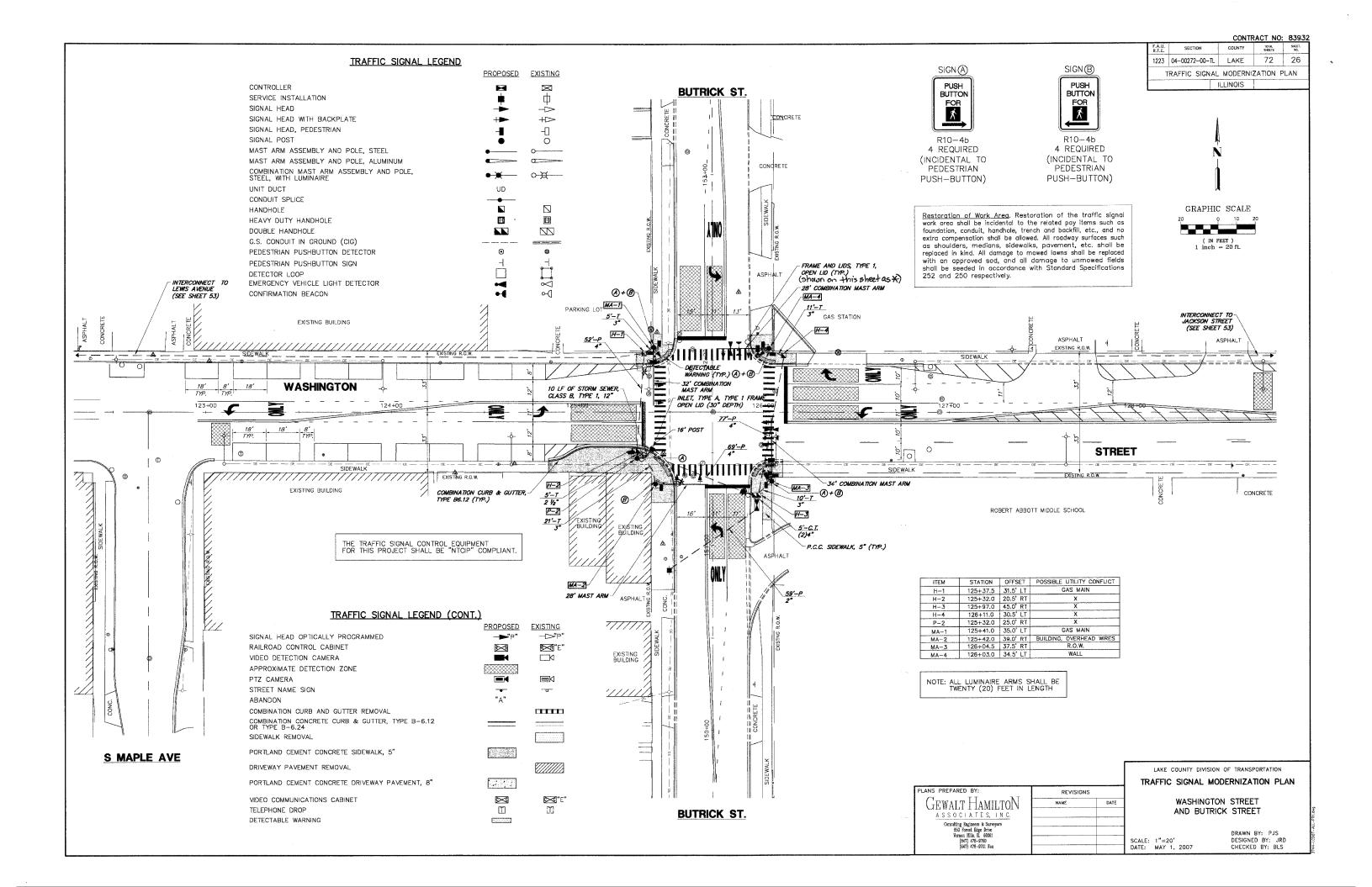
DRAWN BY: PJS DESIGNED BY: JRD CHECKED BY: BLS

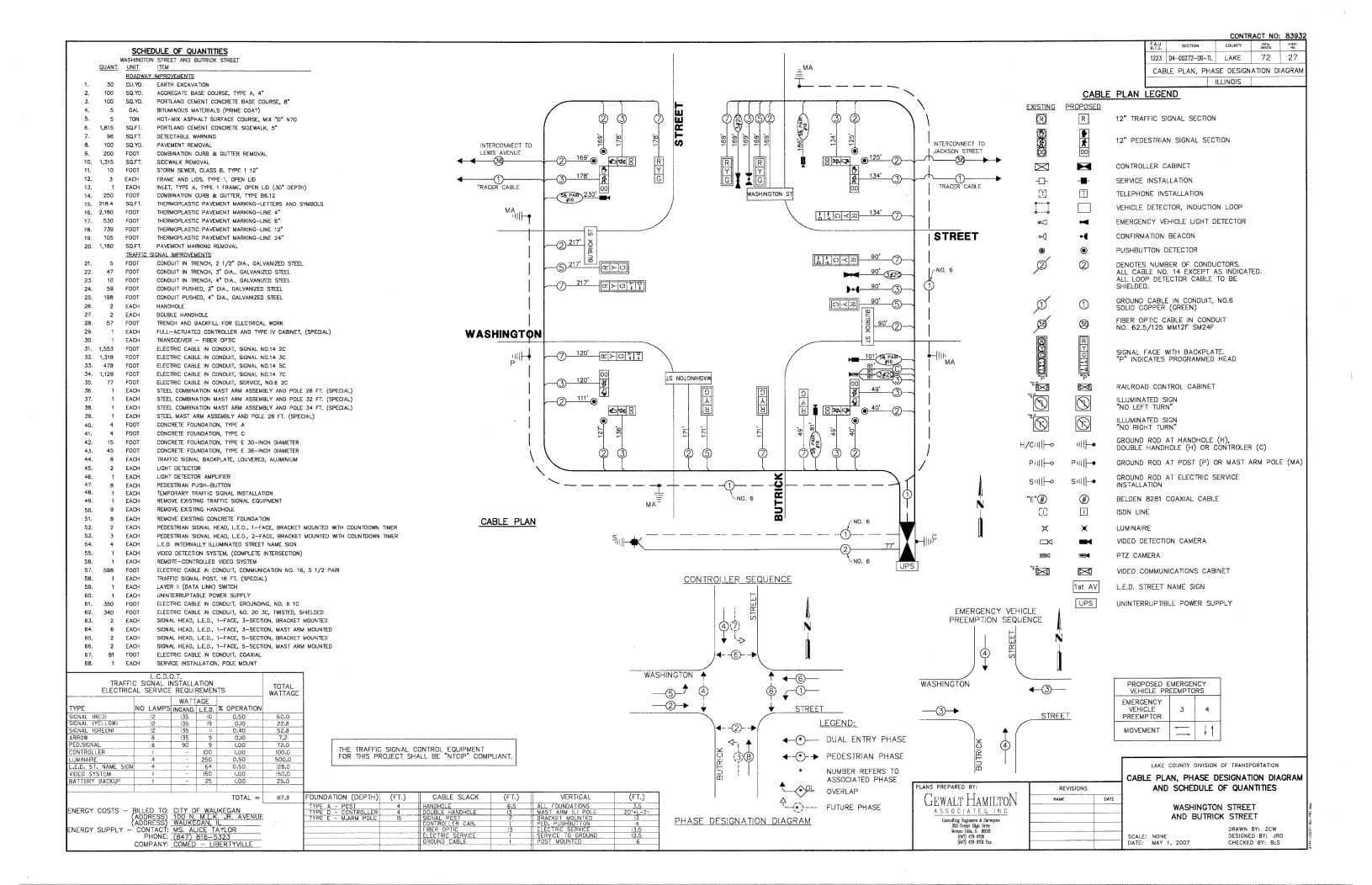


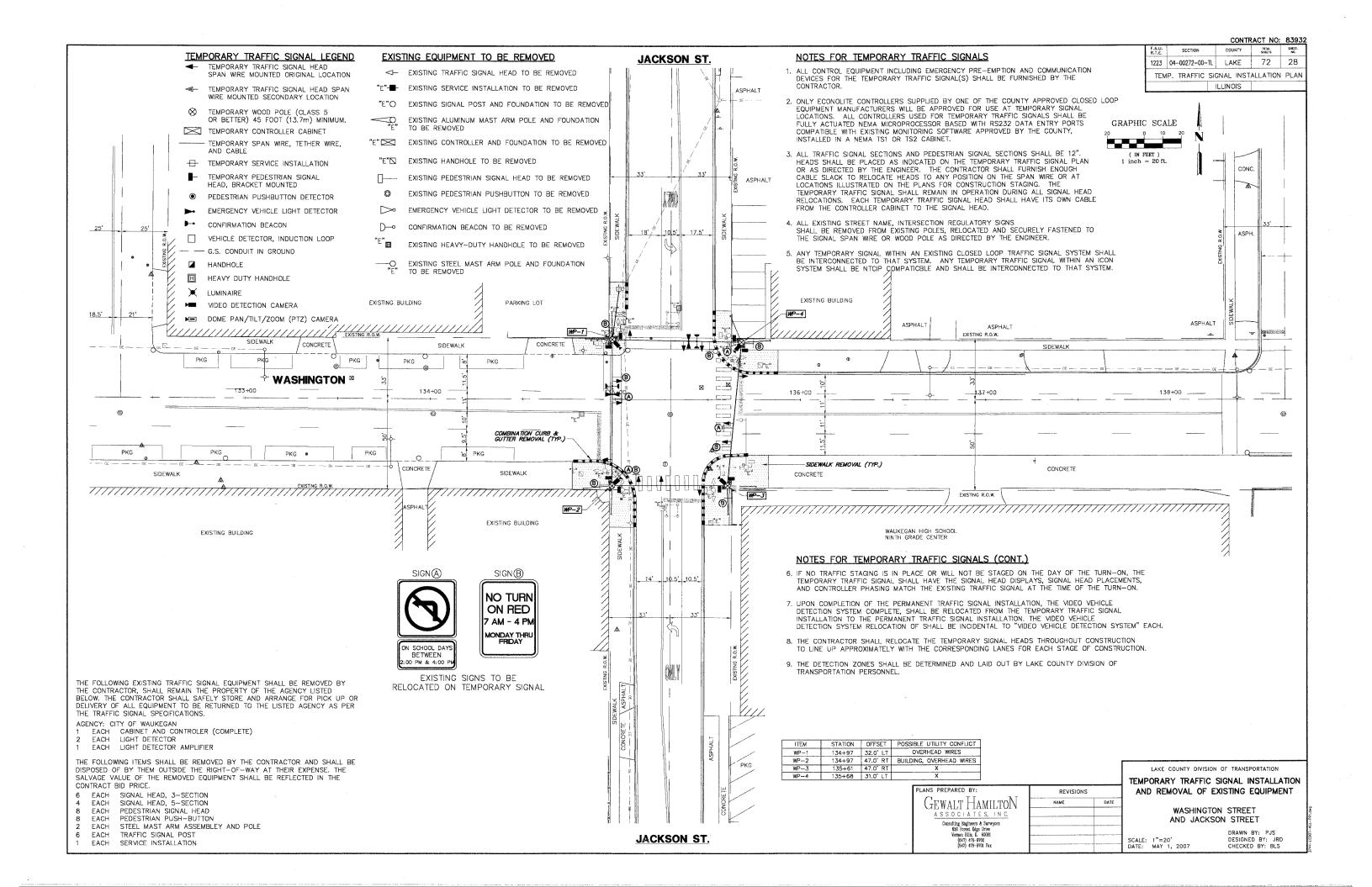


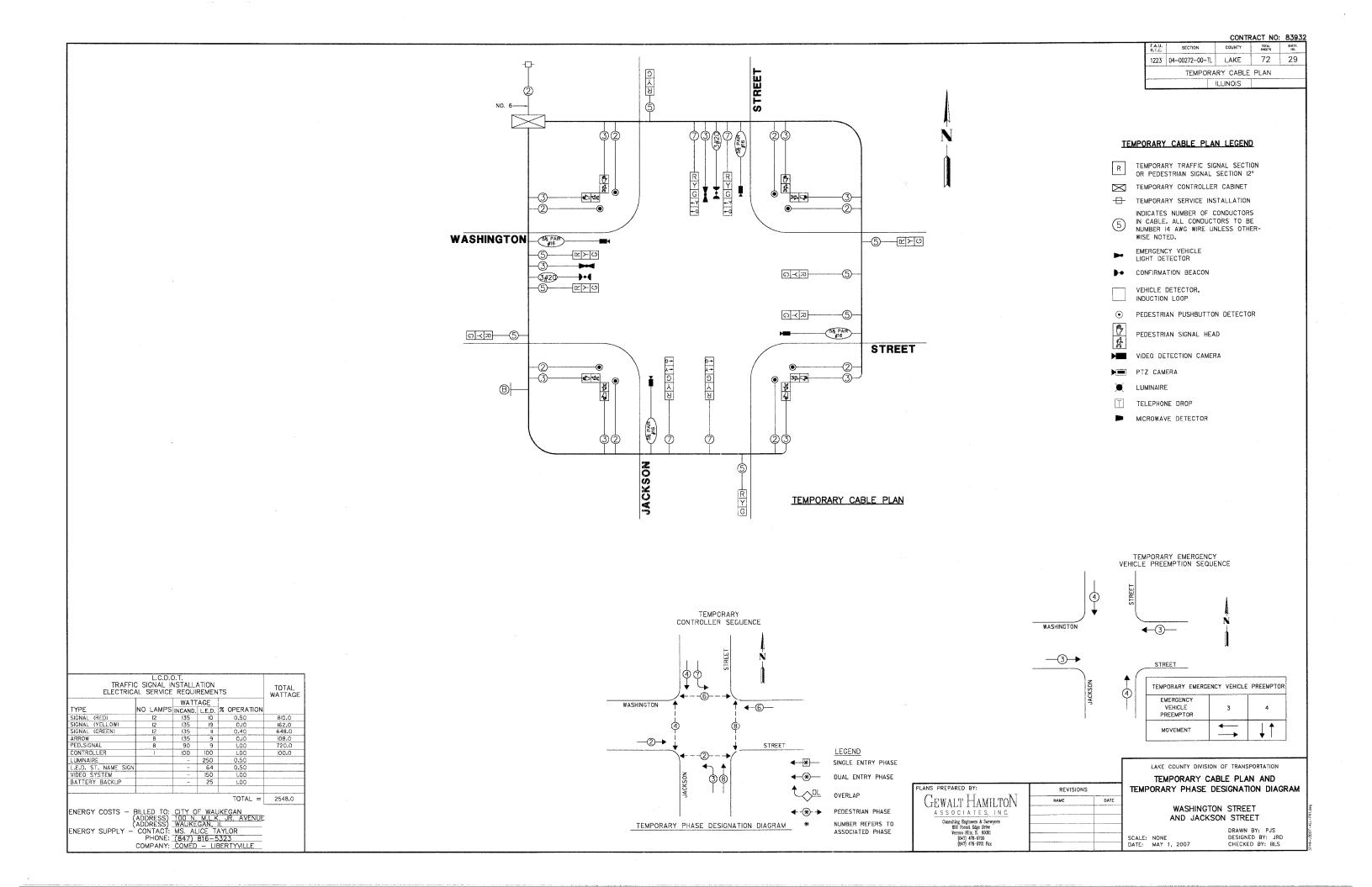


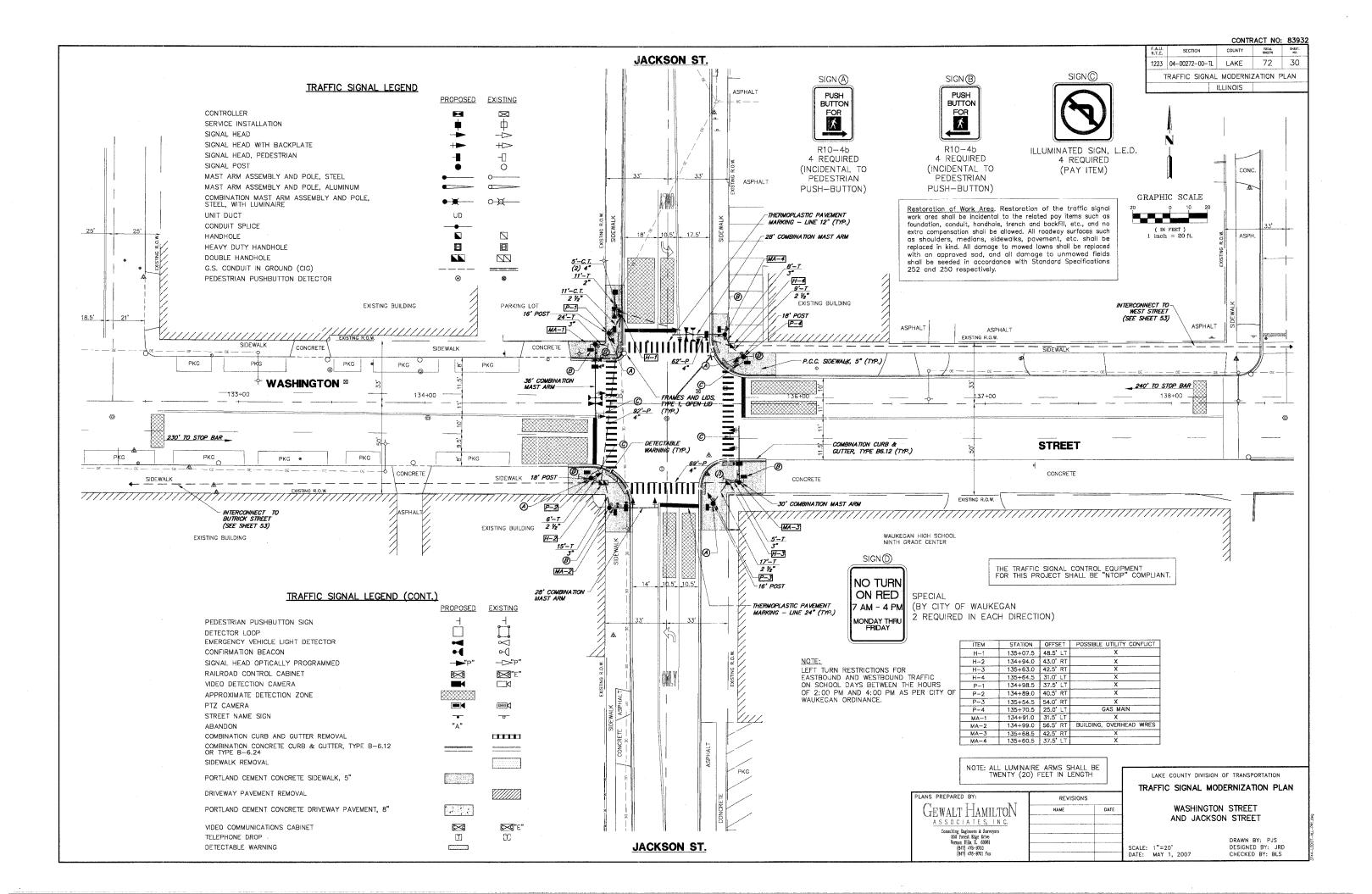


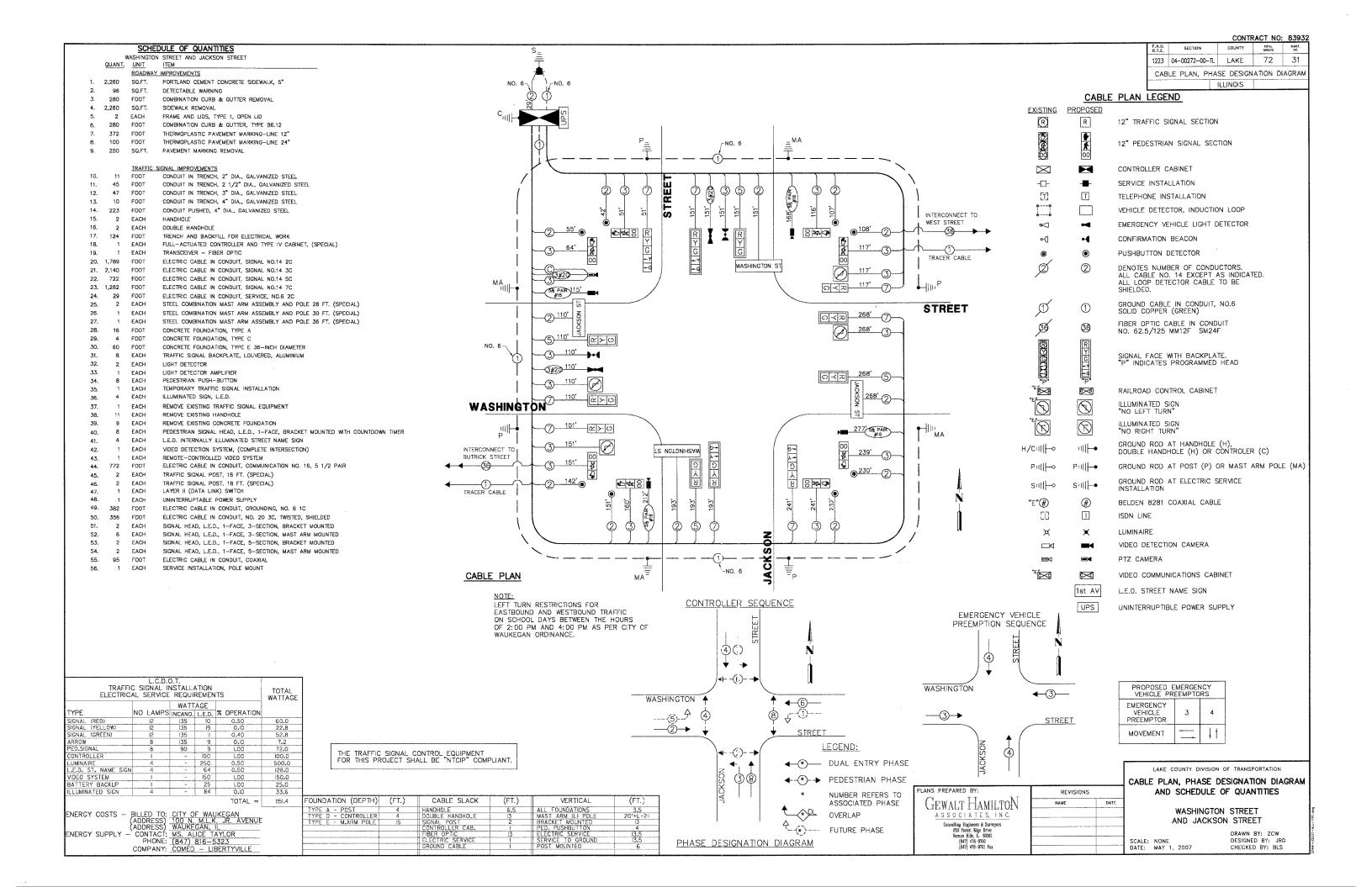


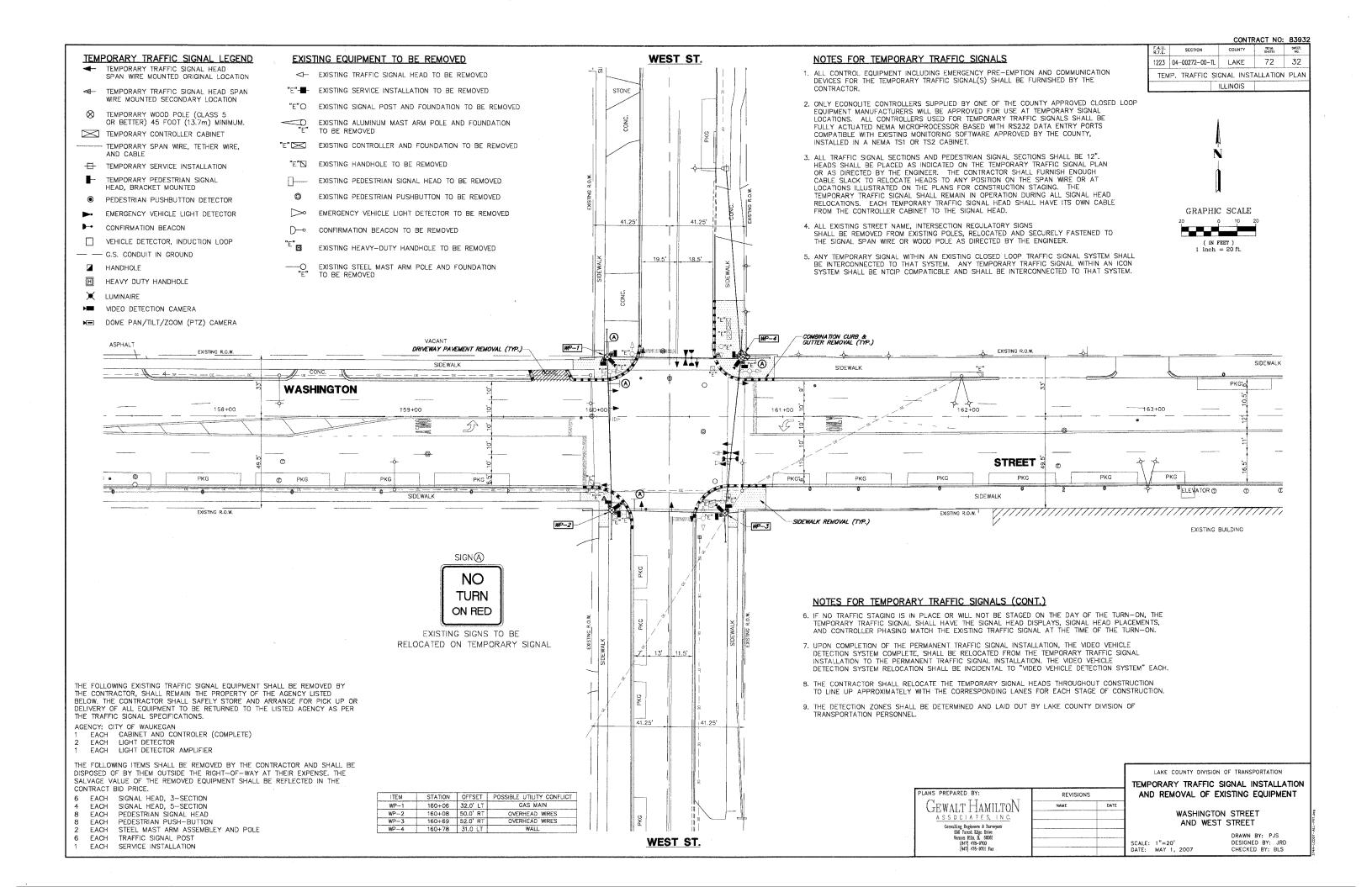


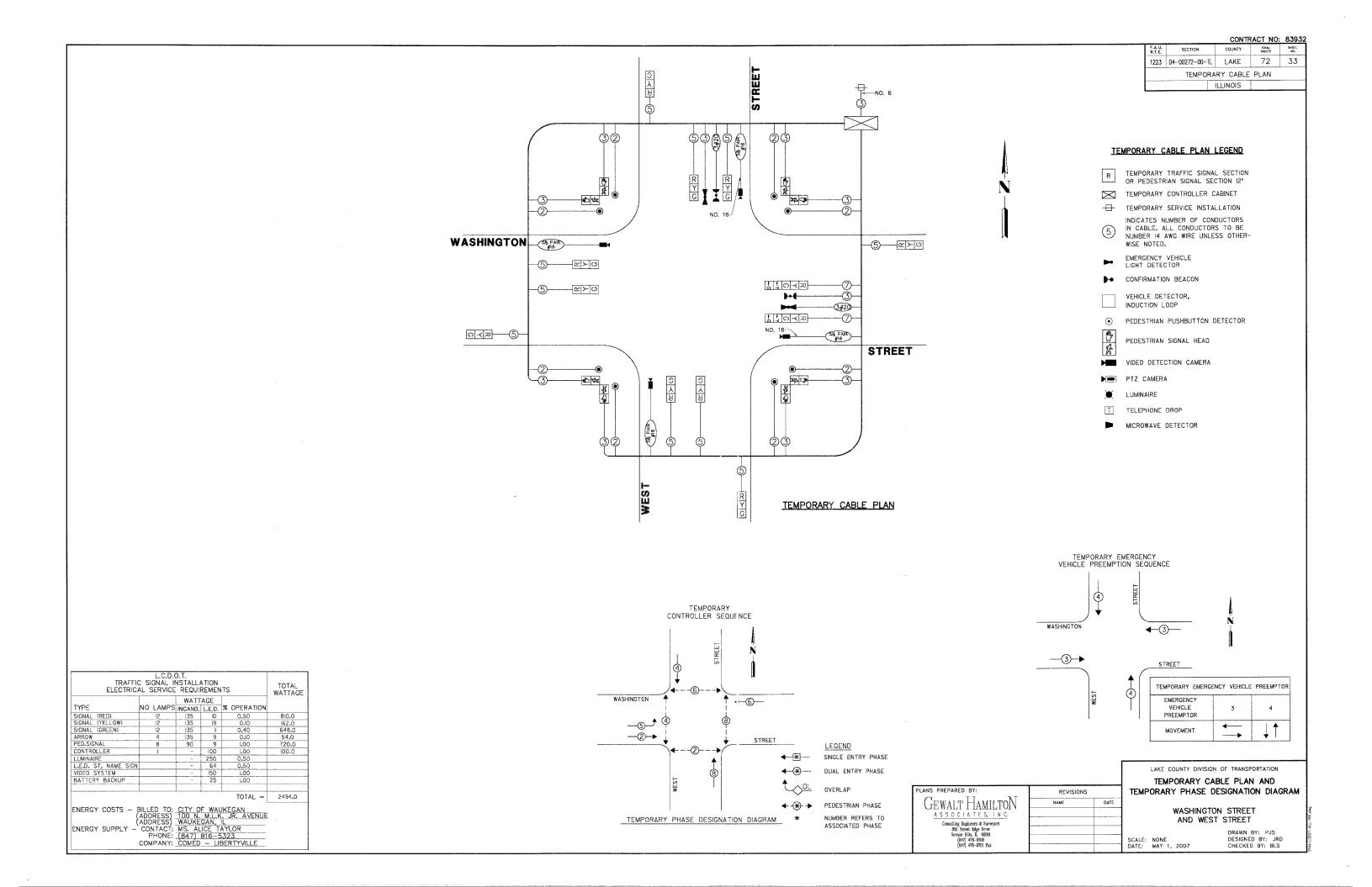


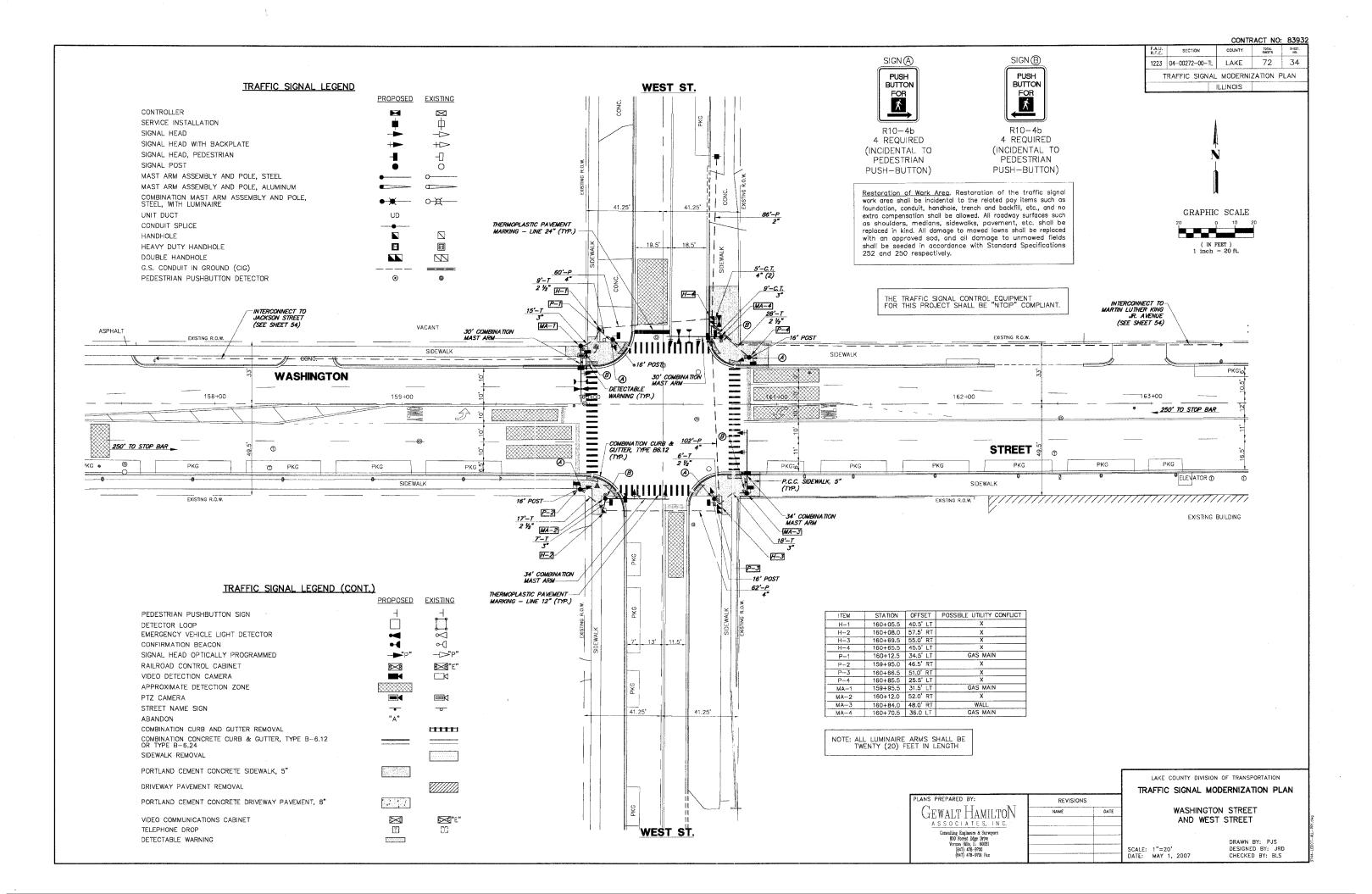


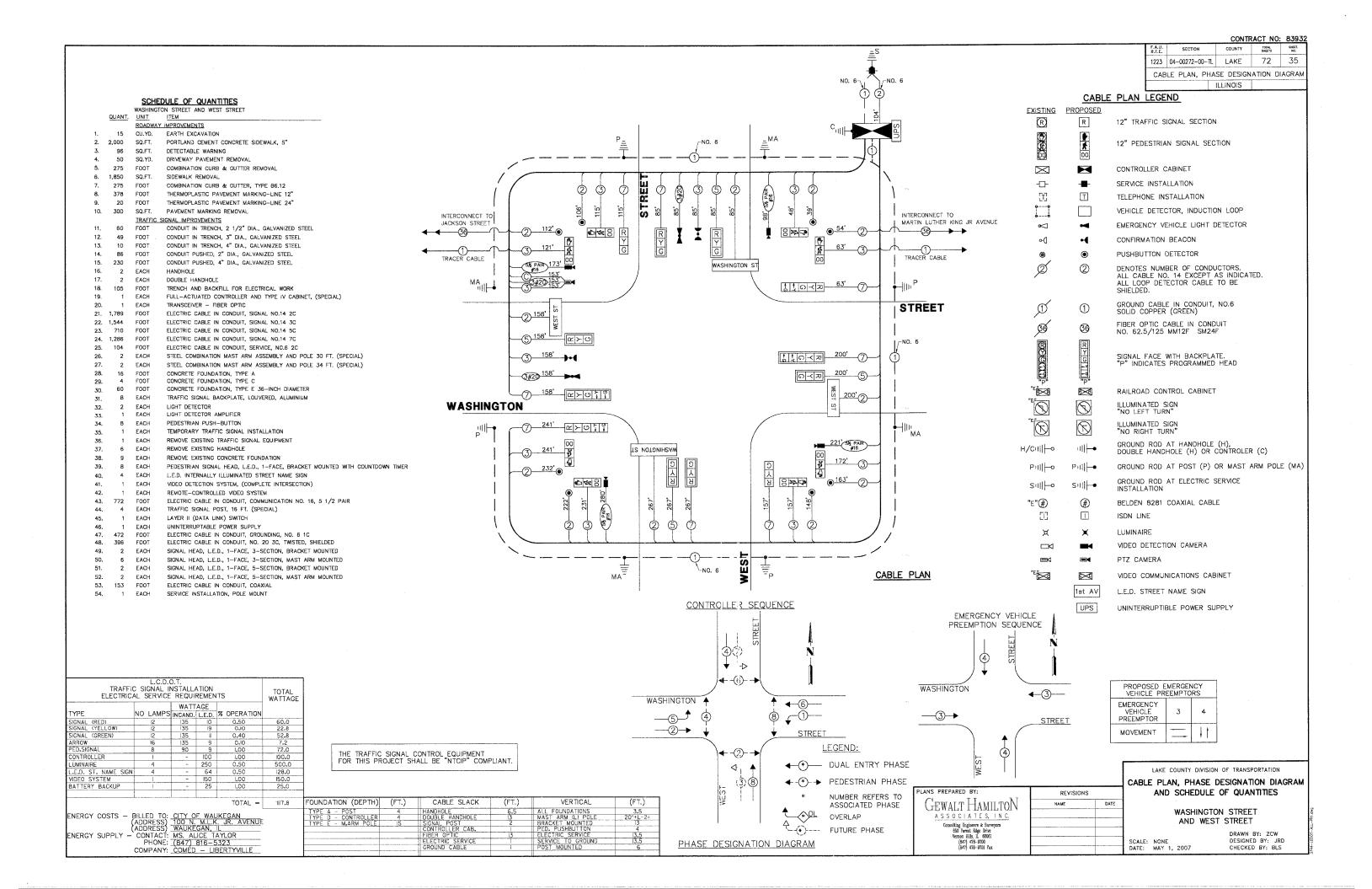


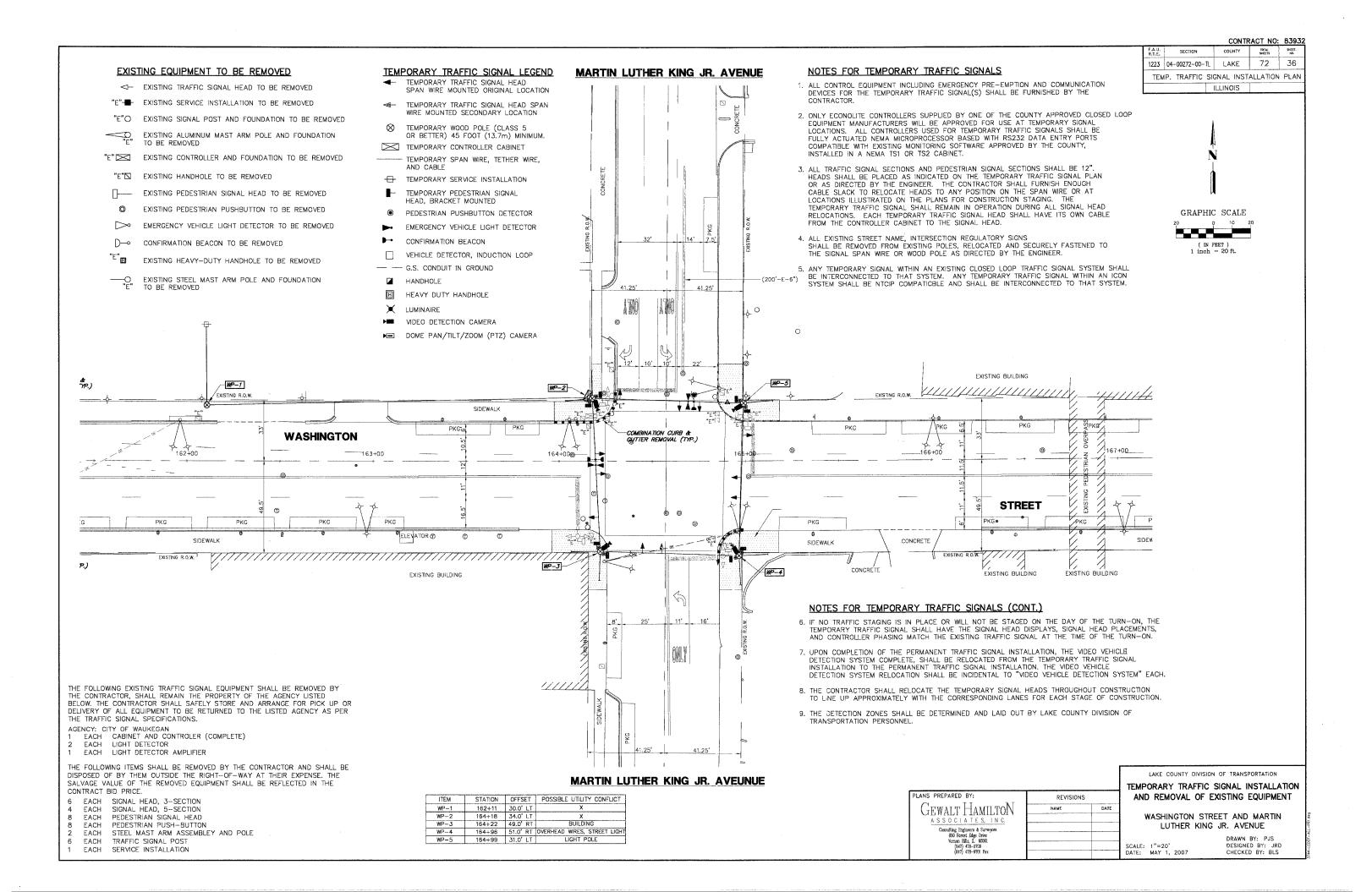


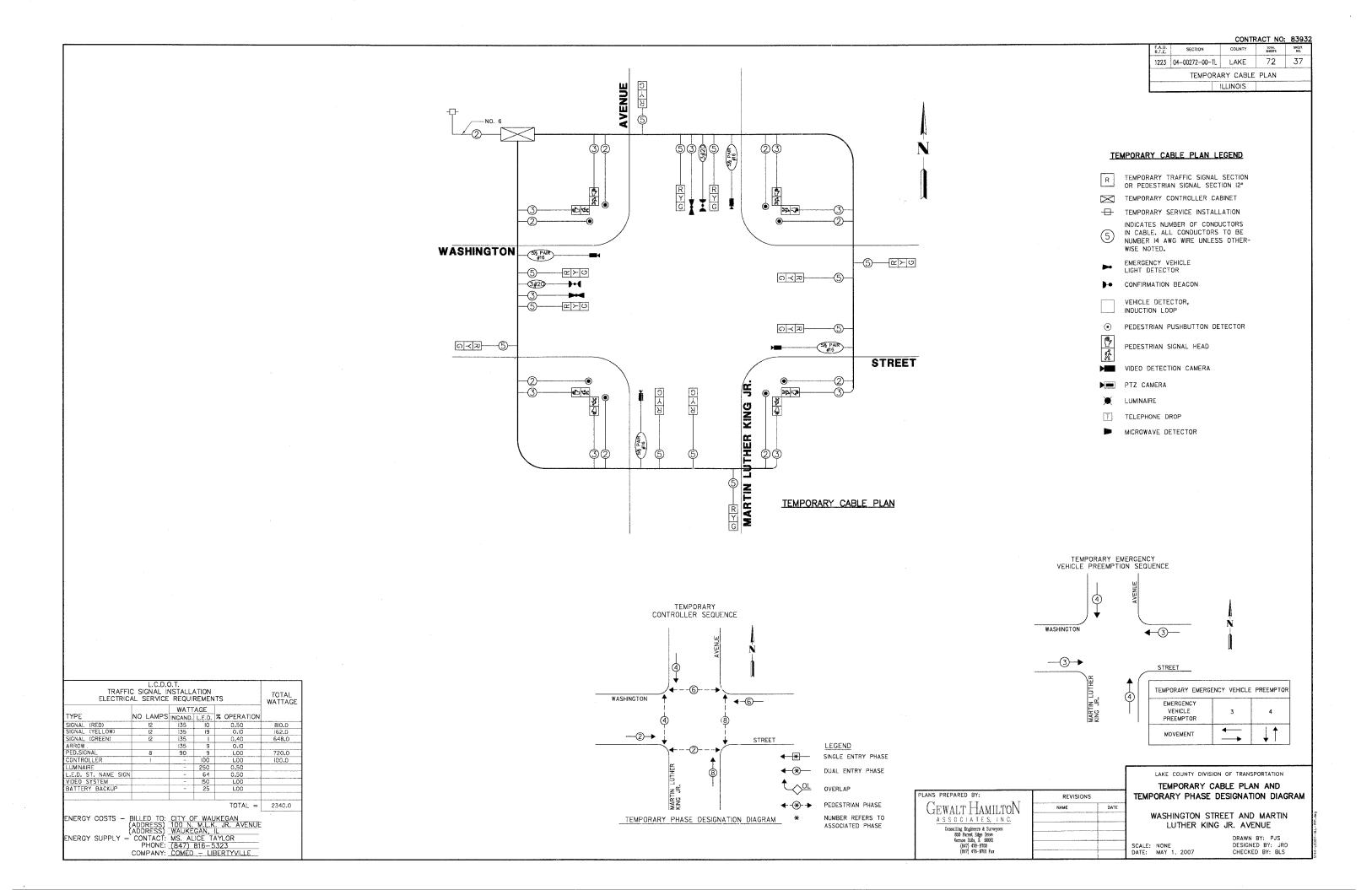


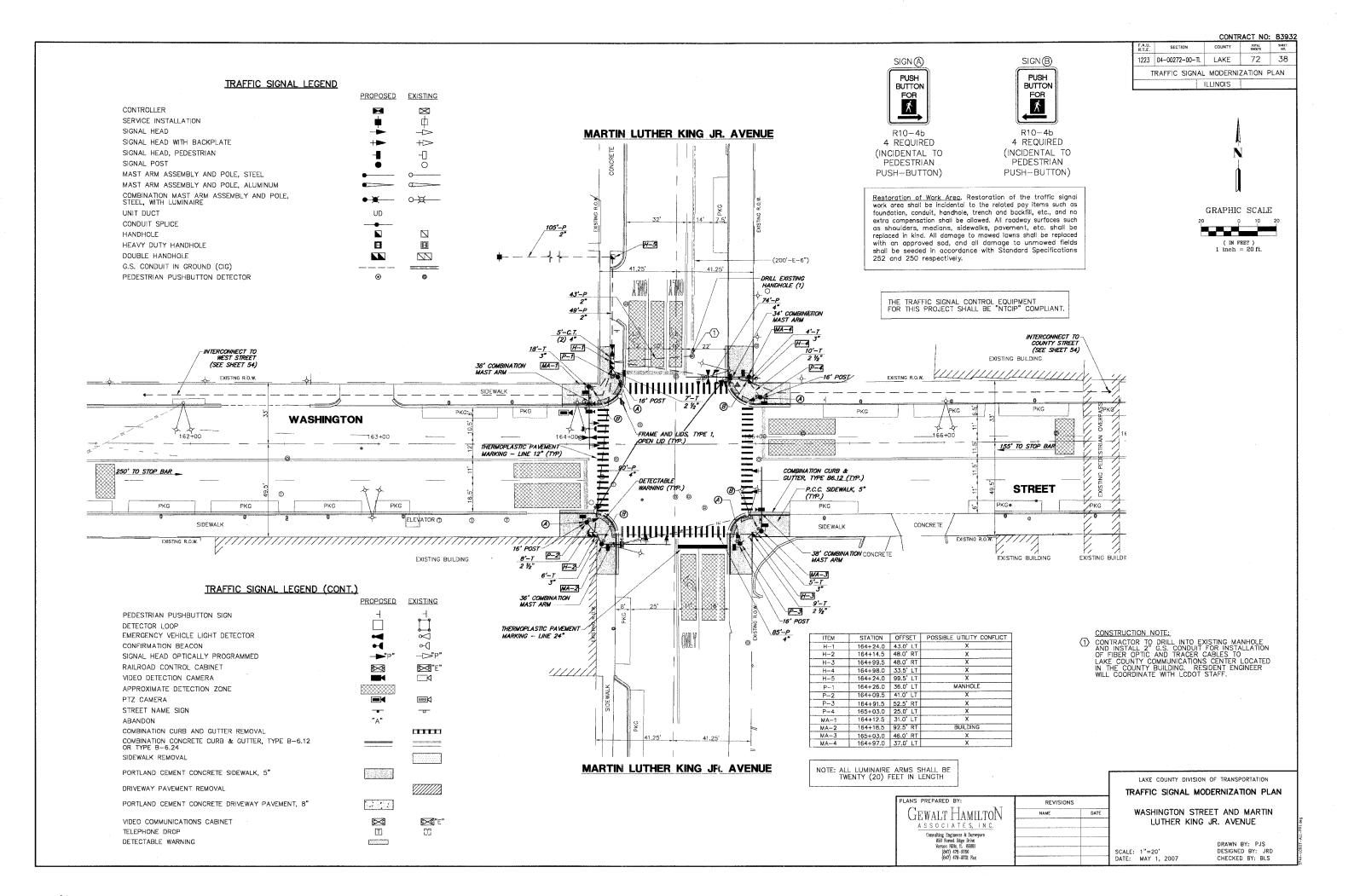


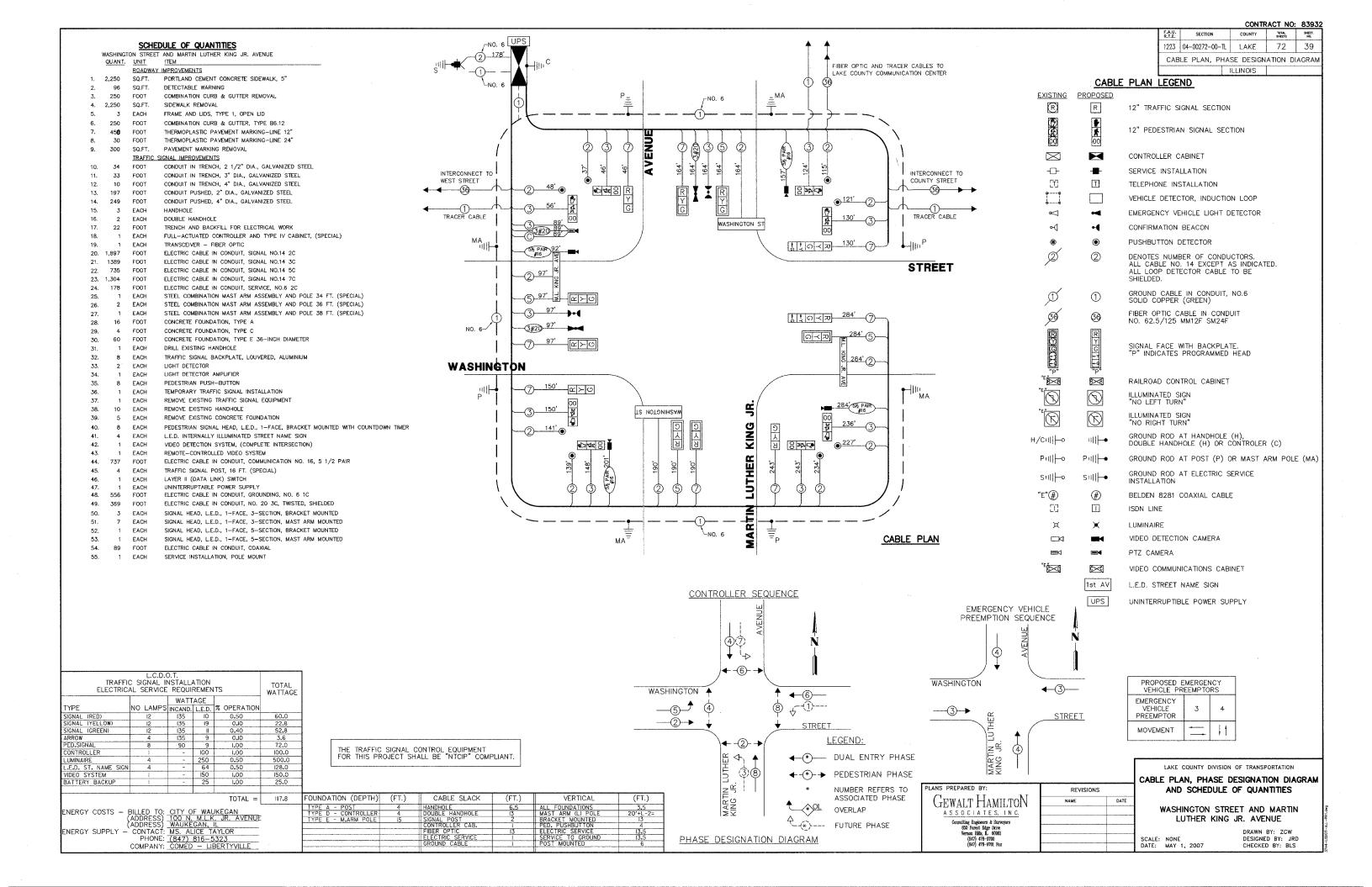


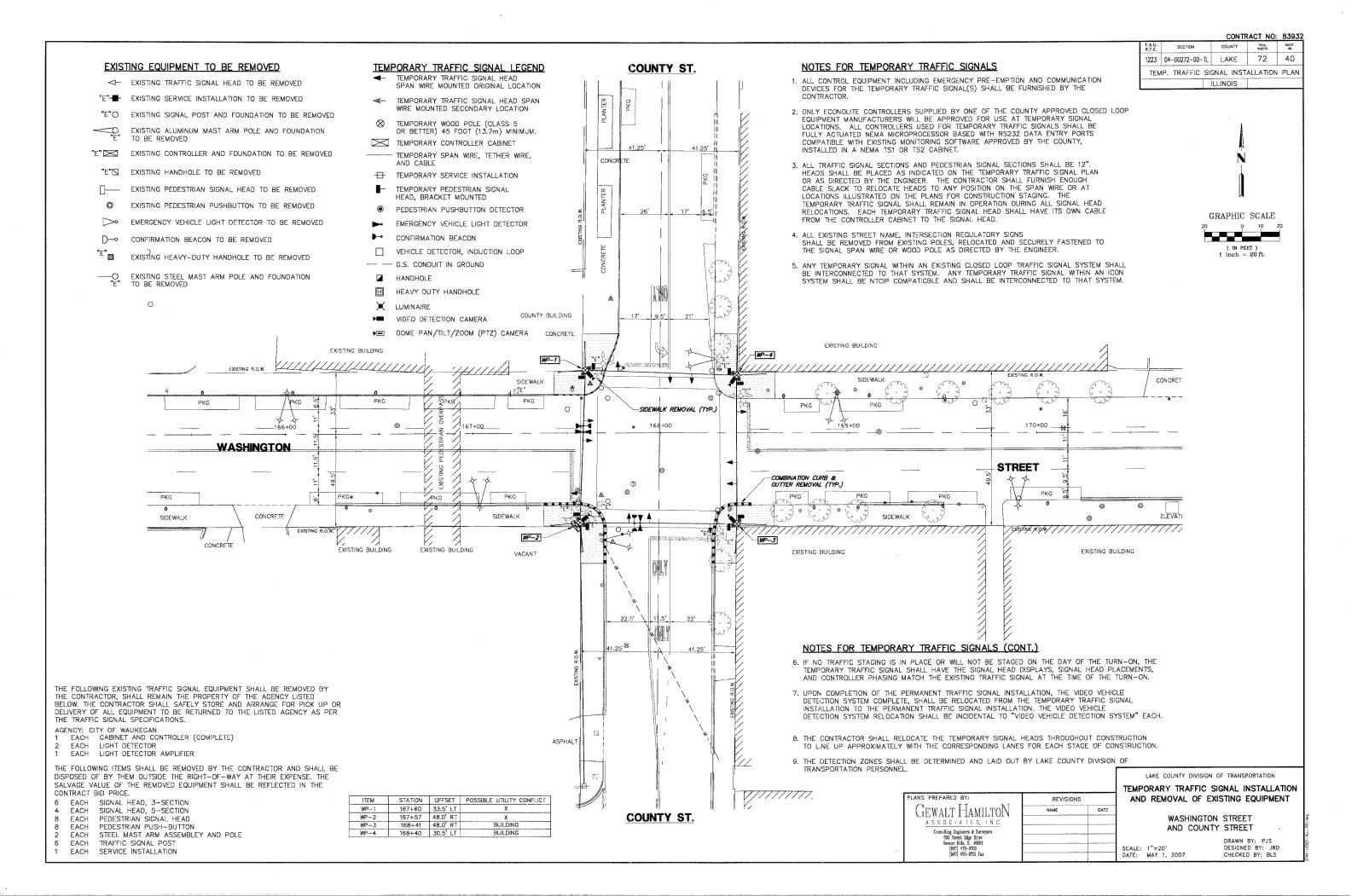


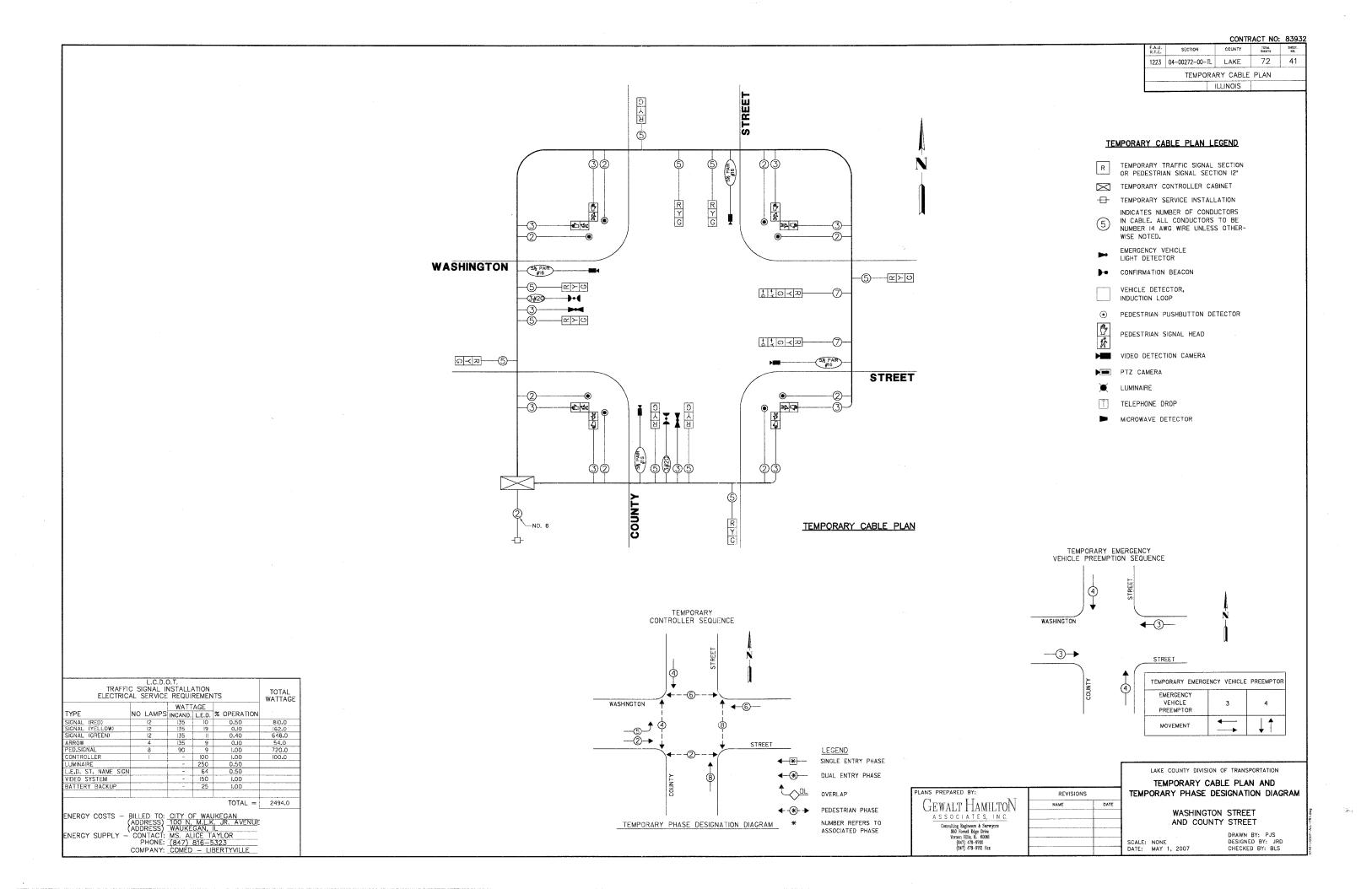


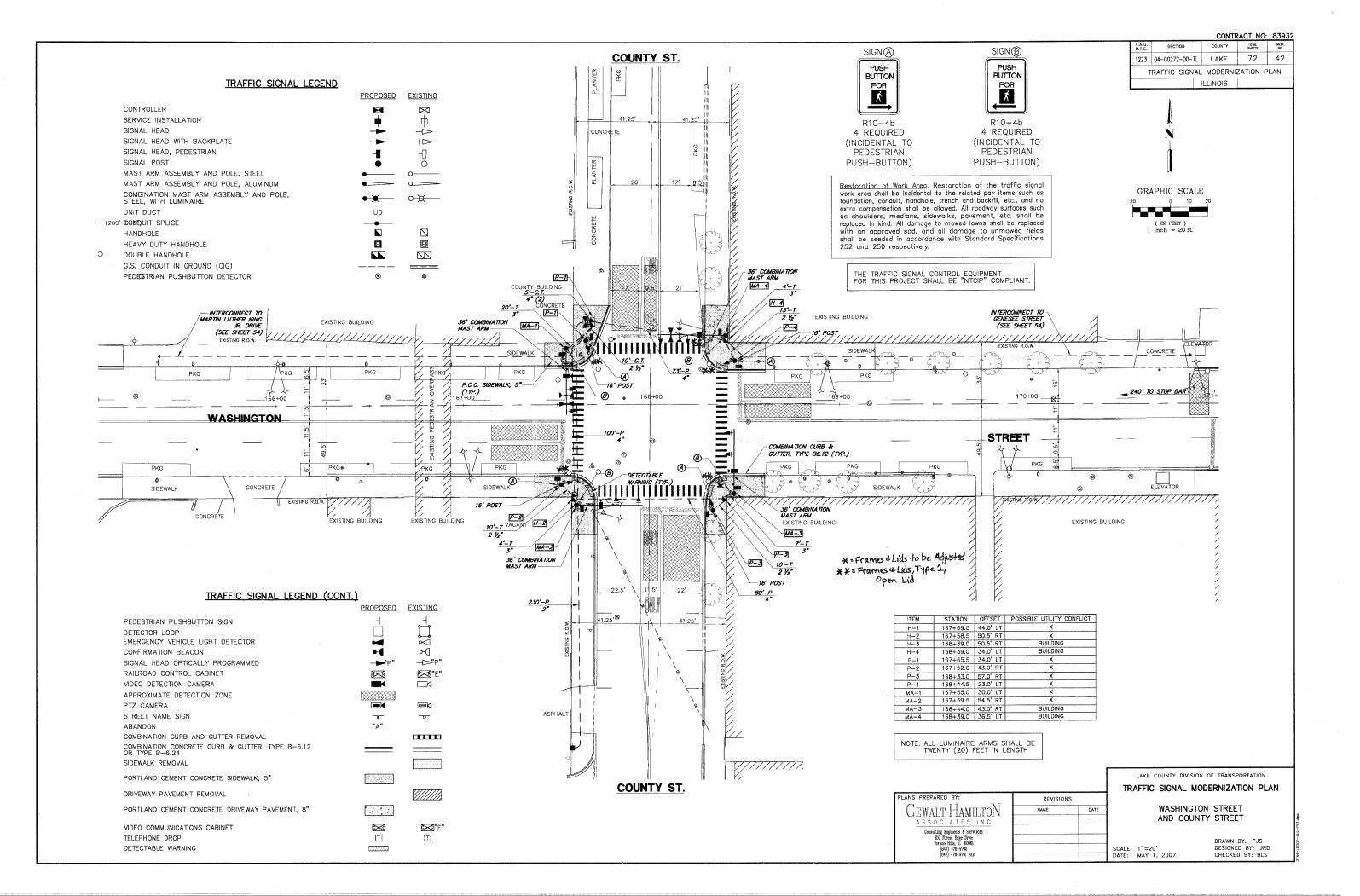


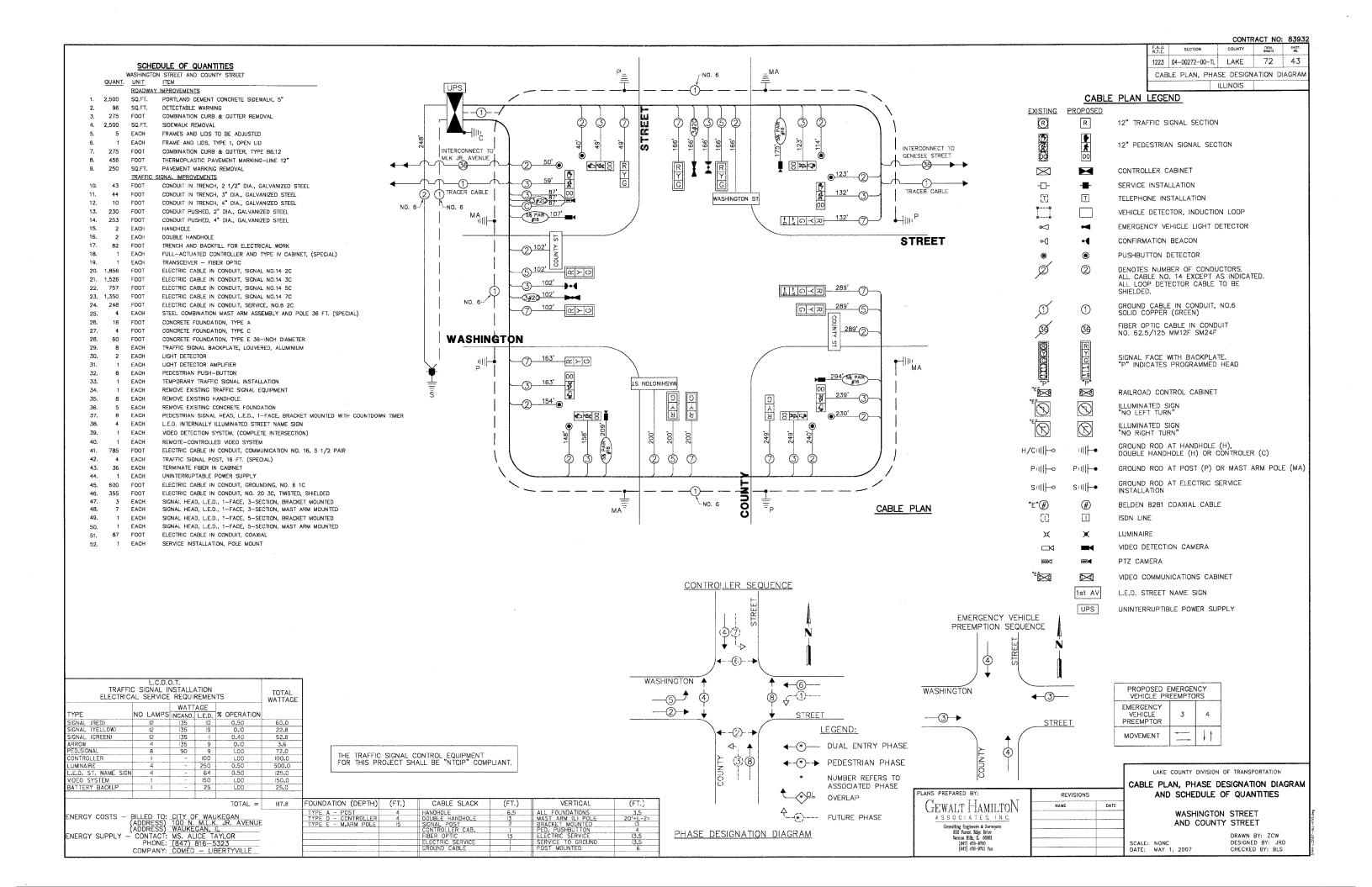


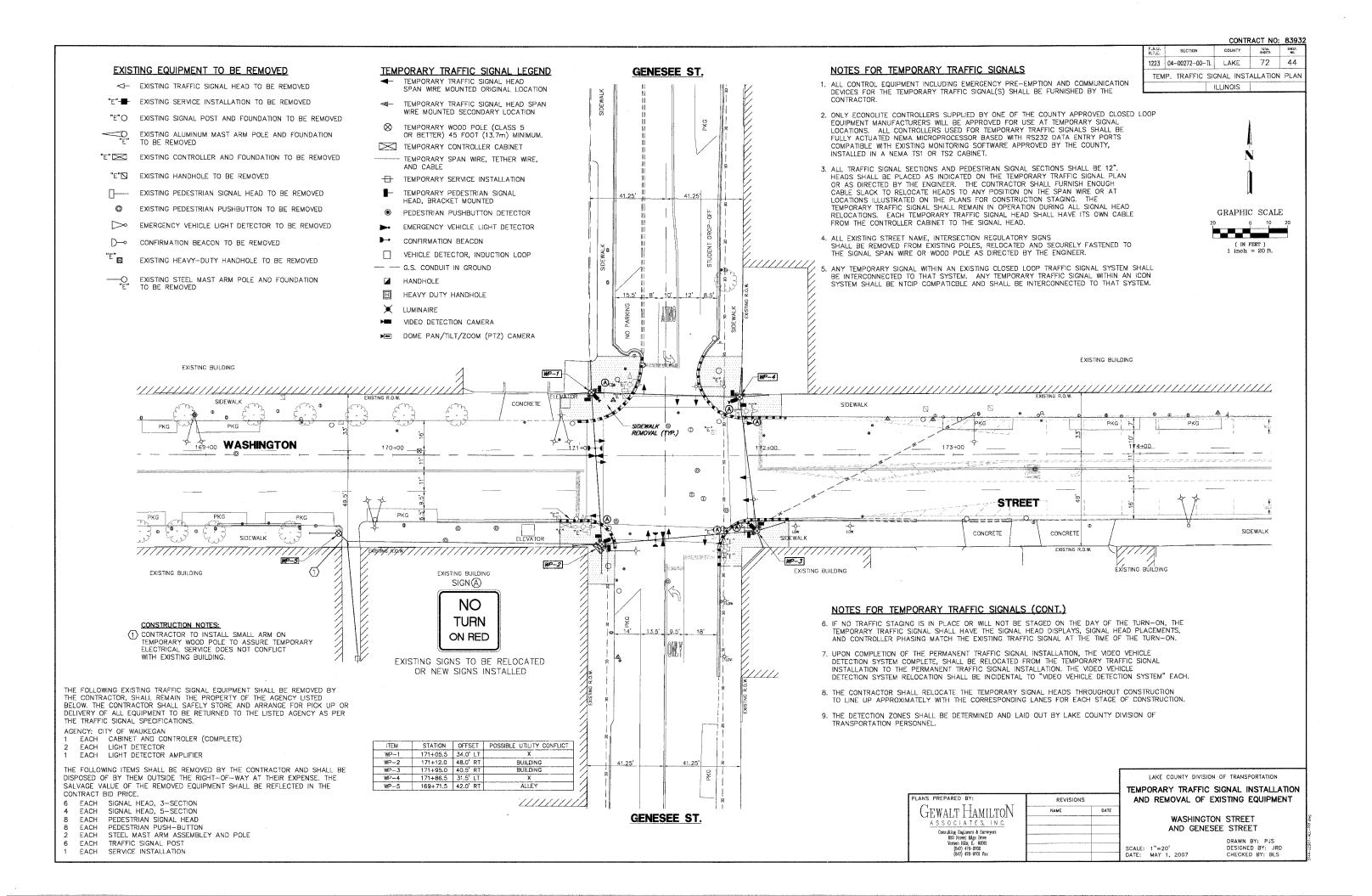


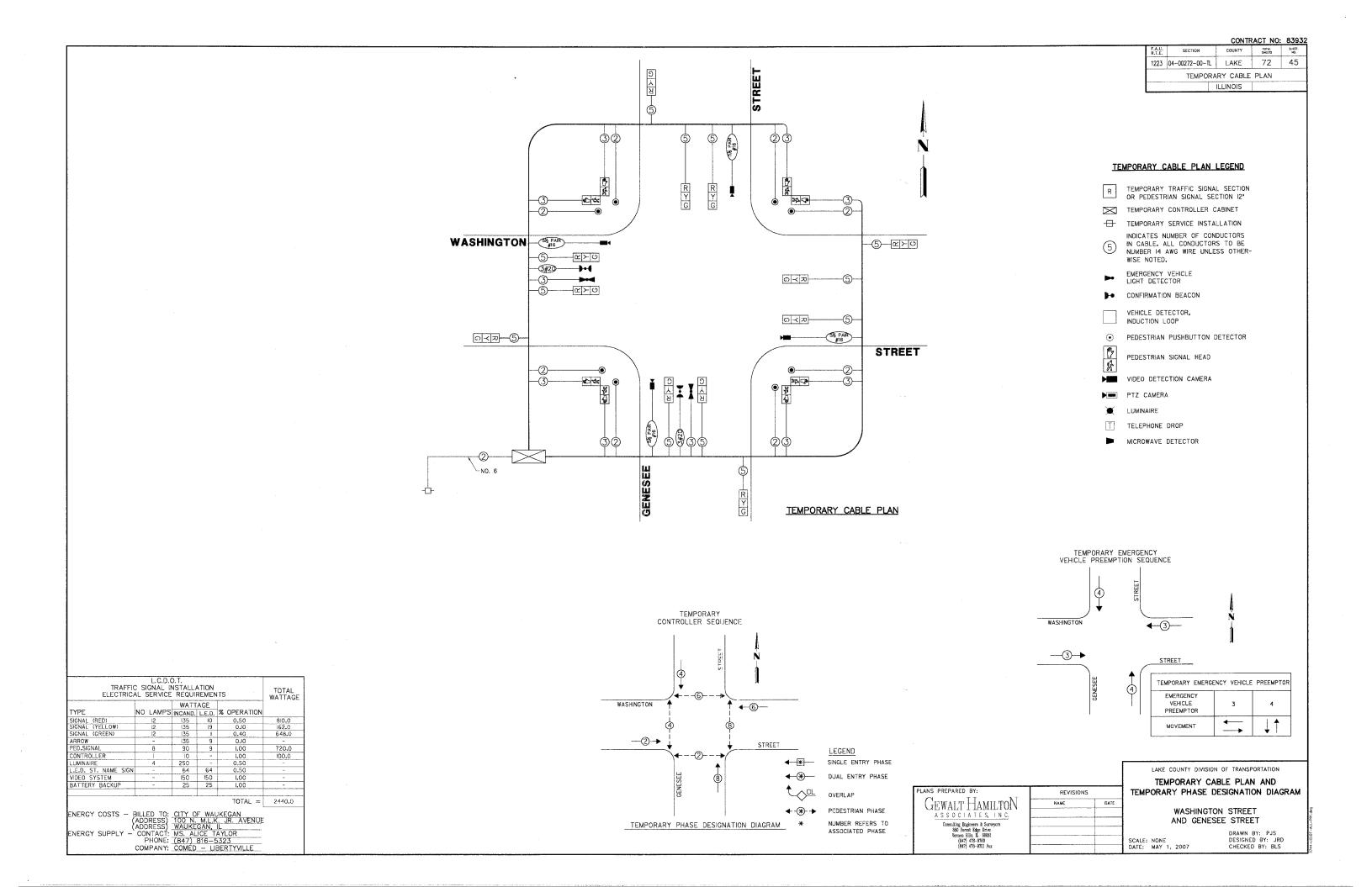


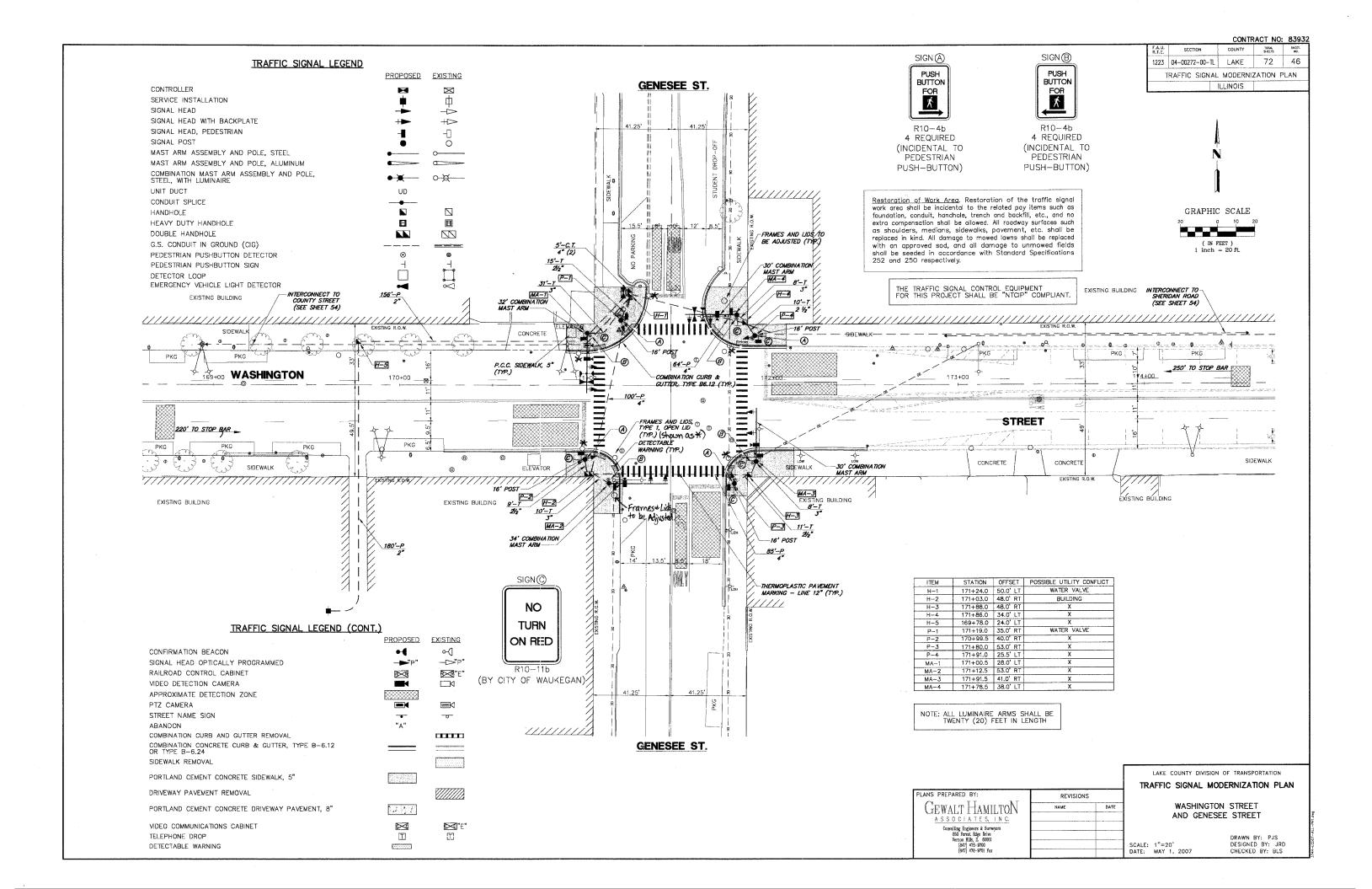


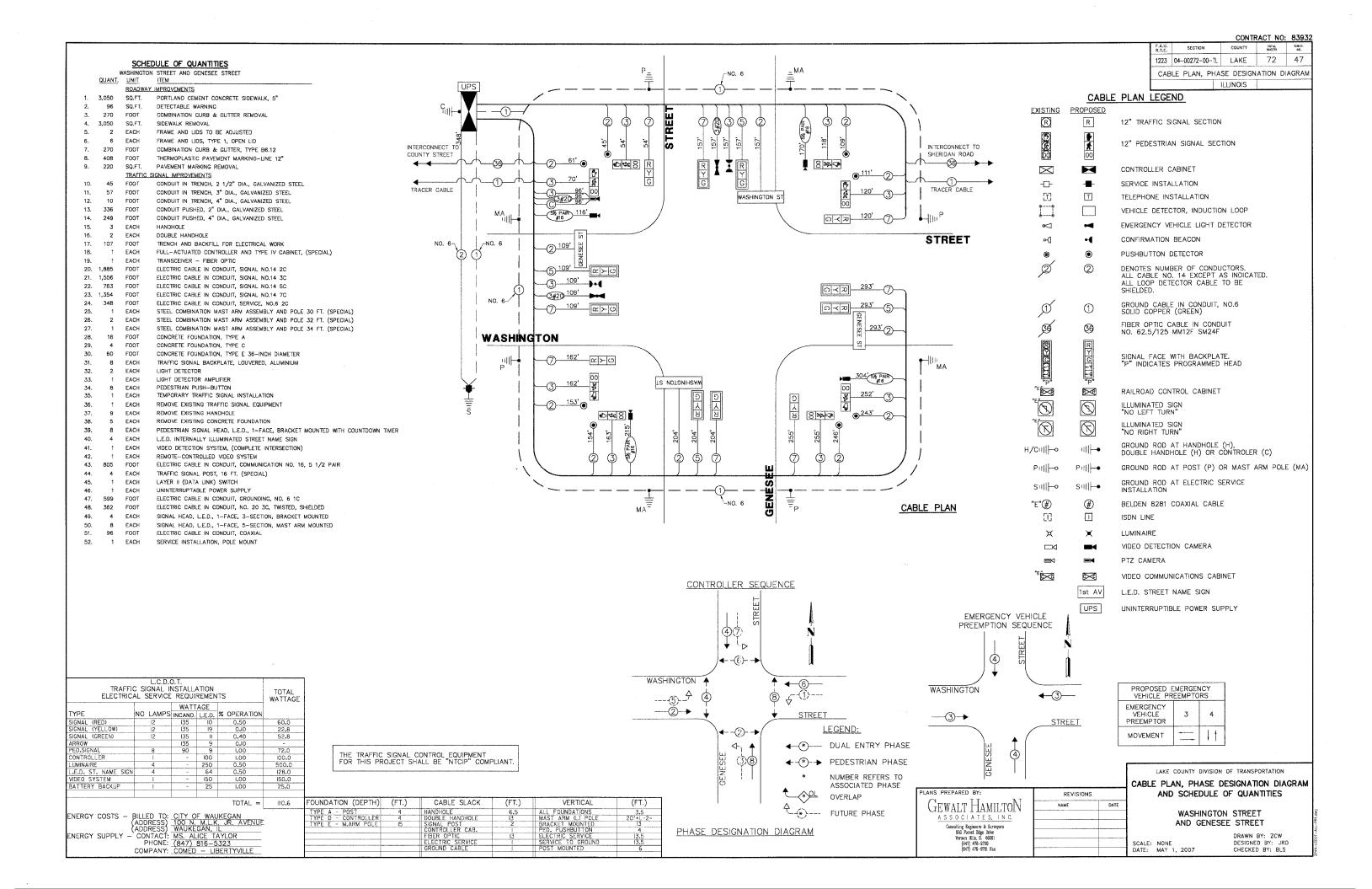


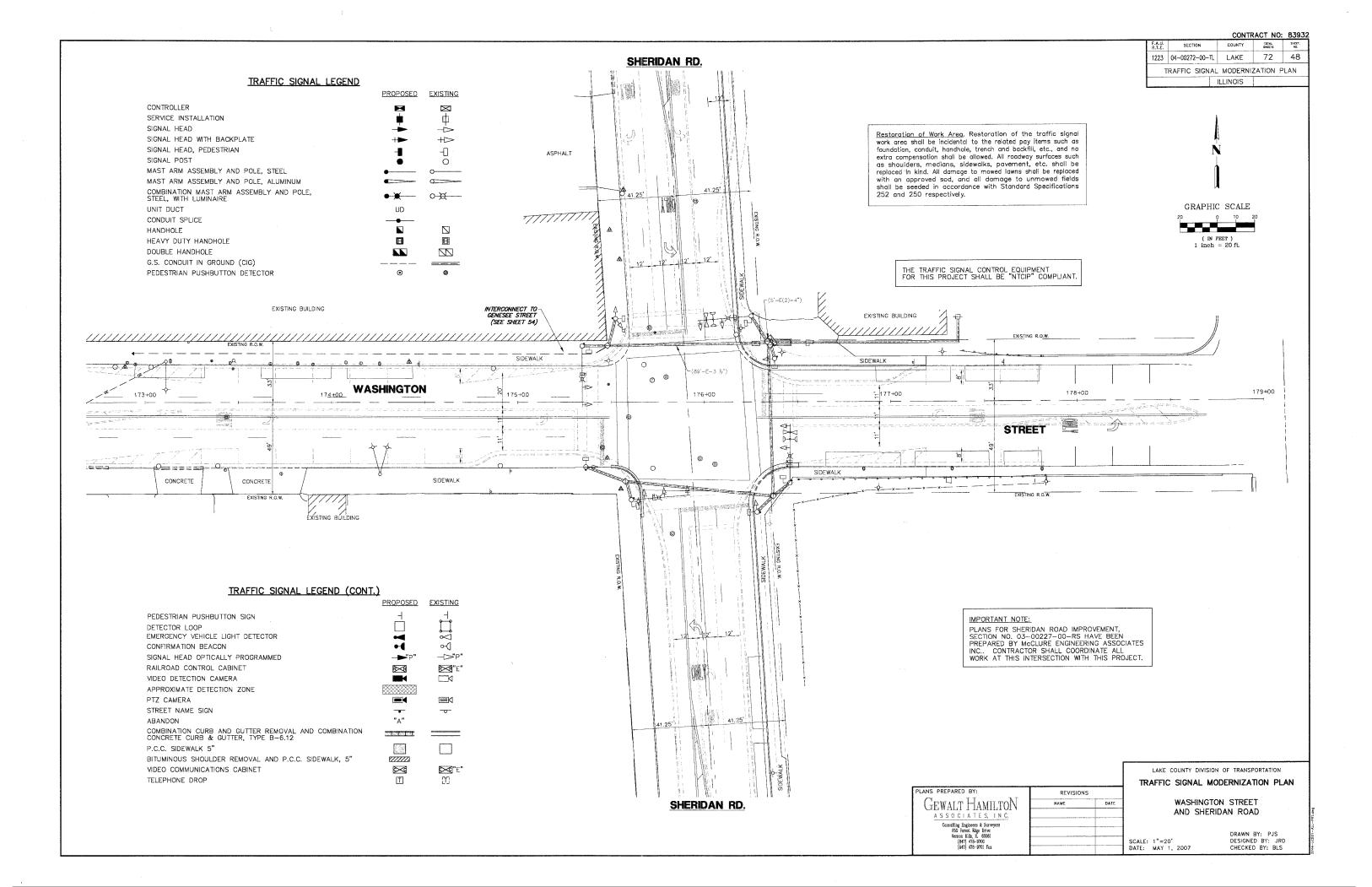


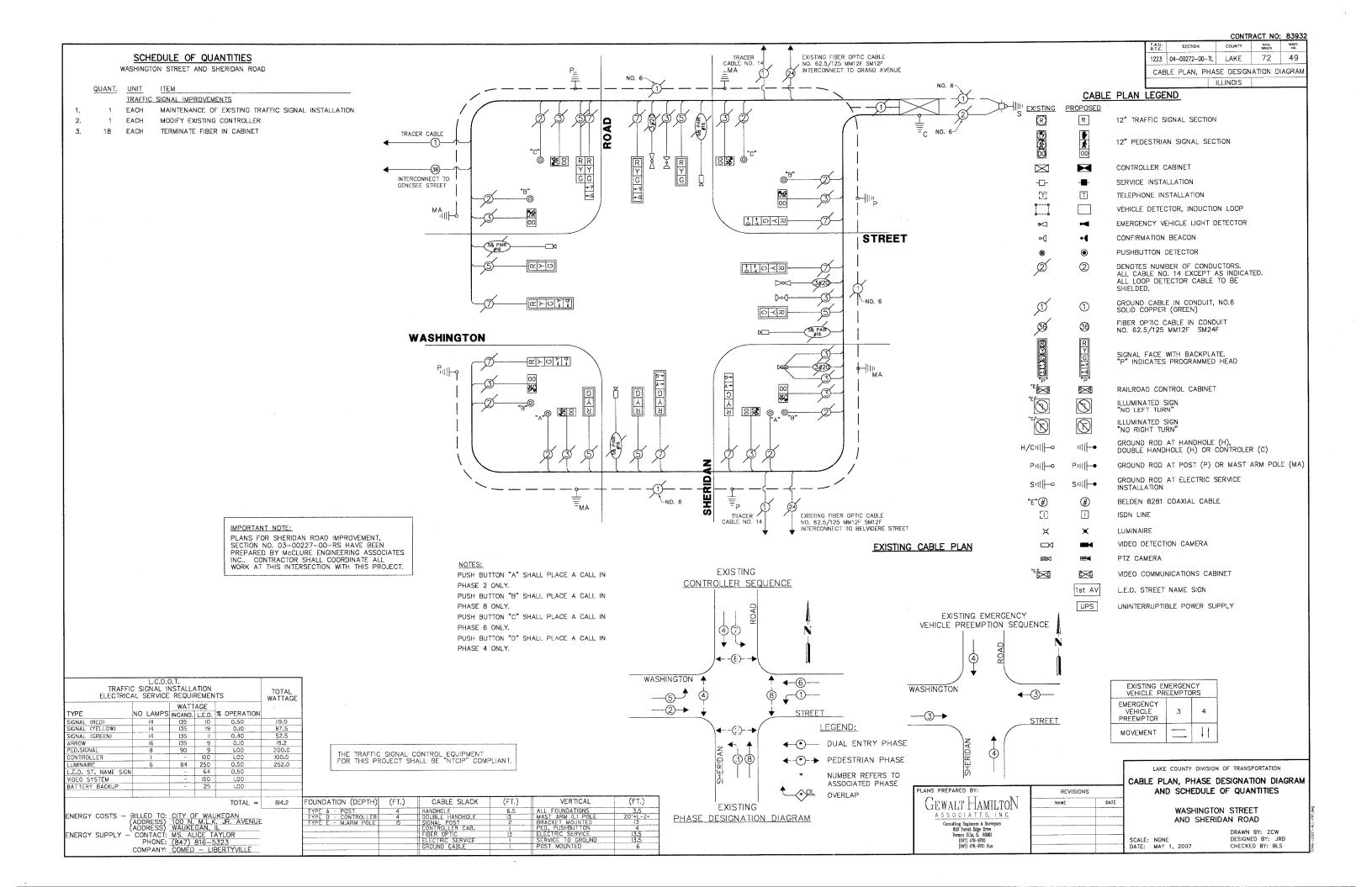


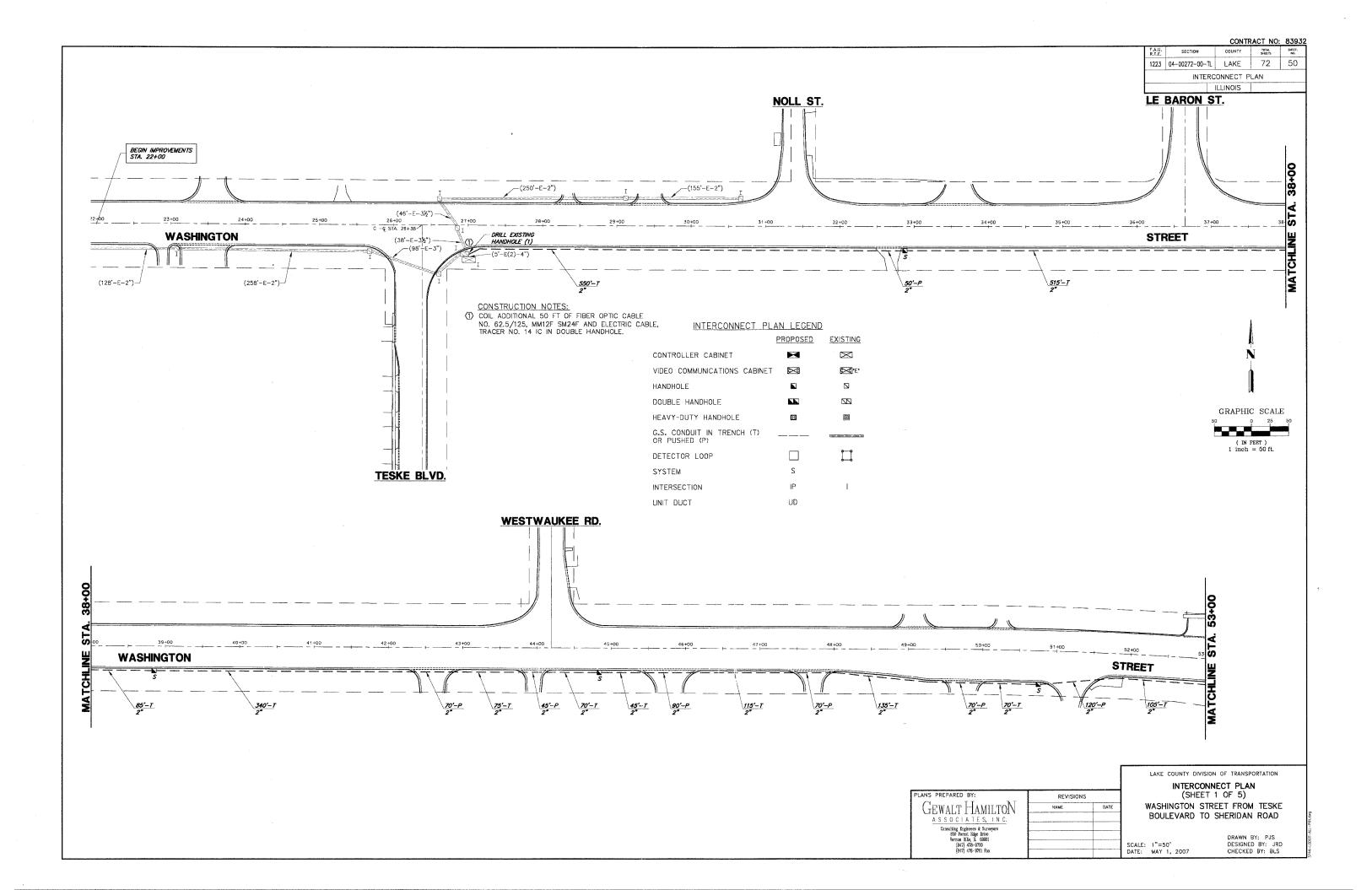


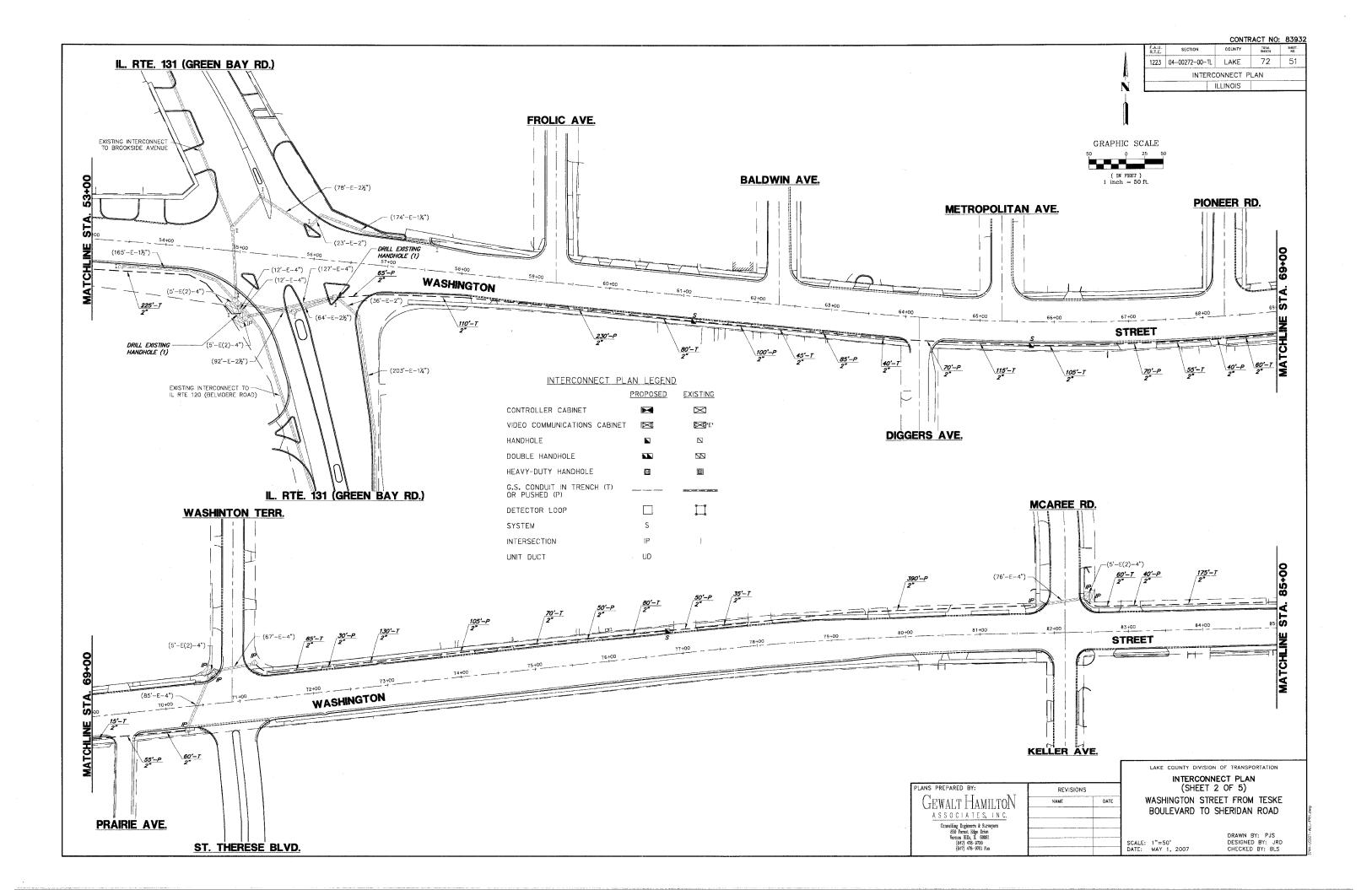


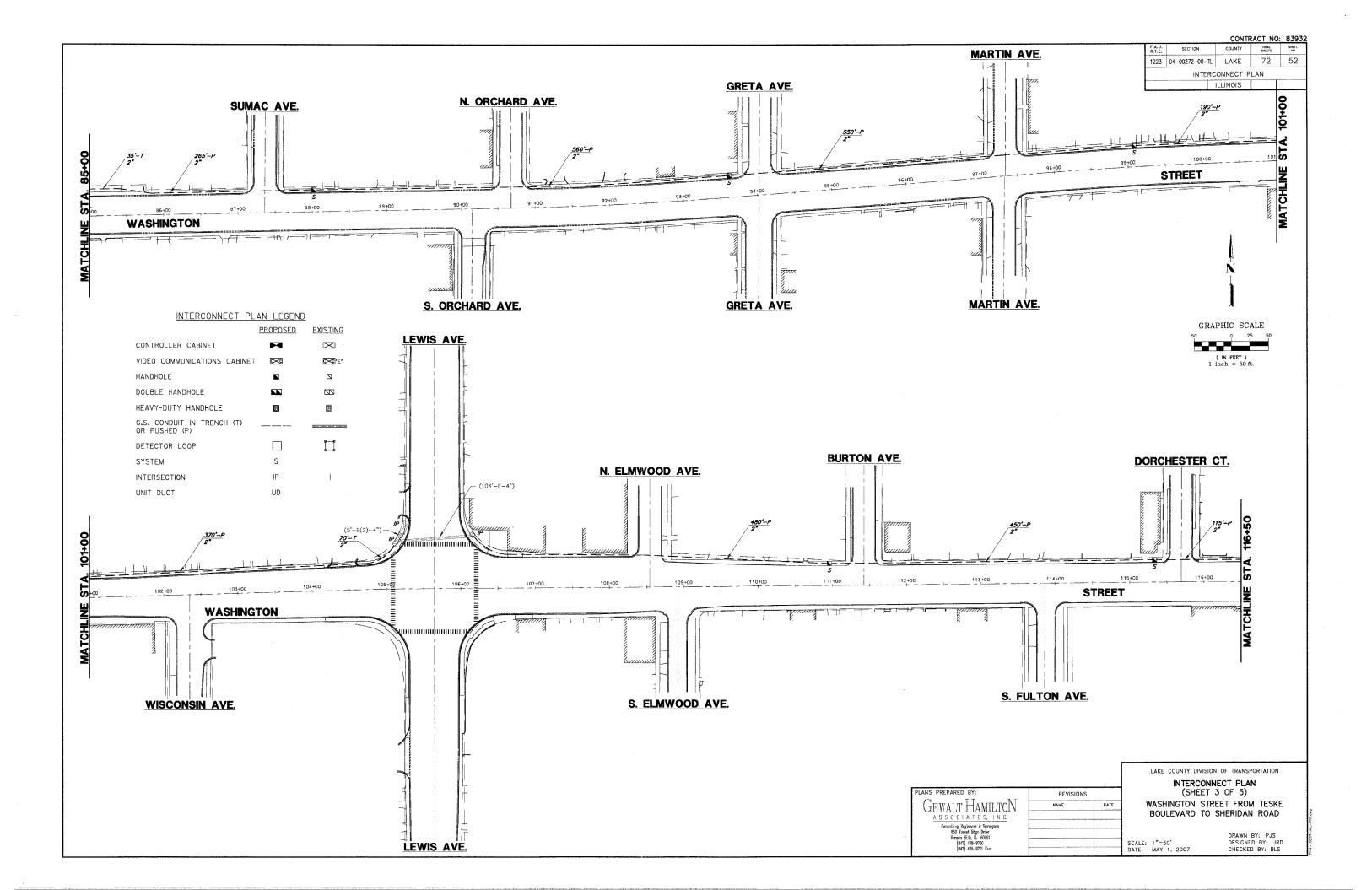


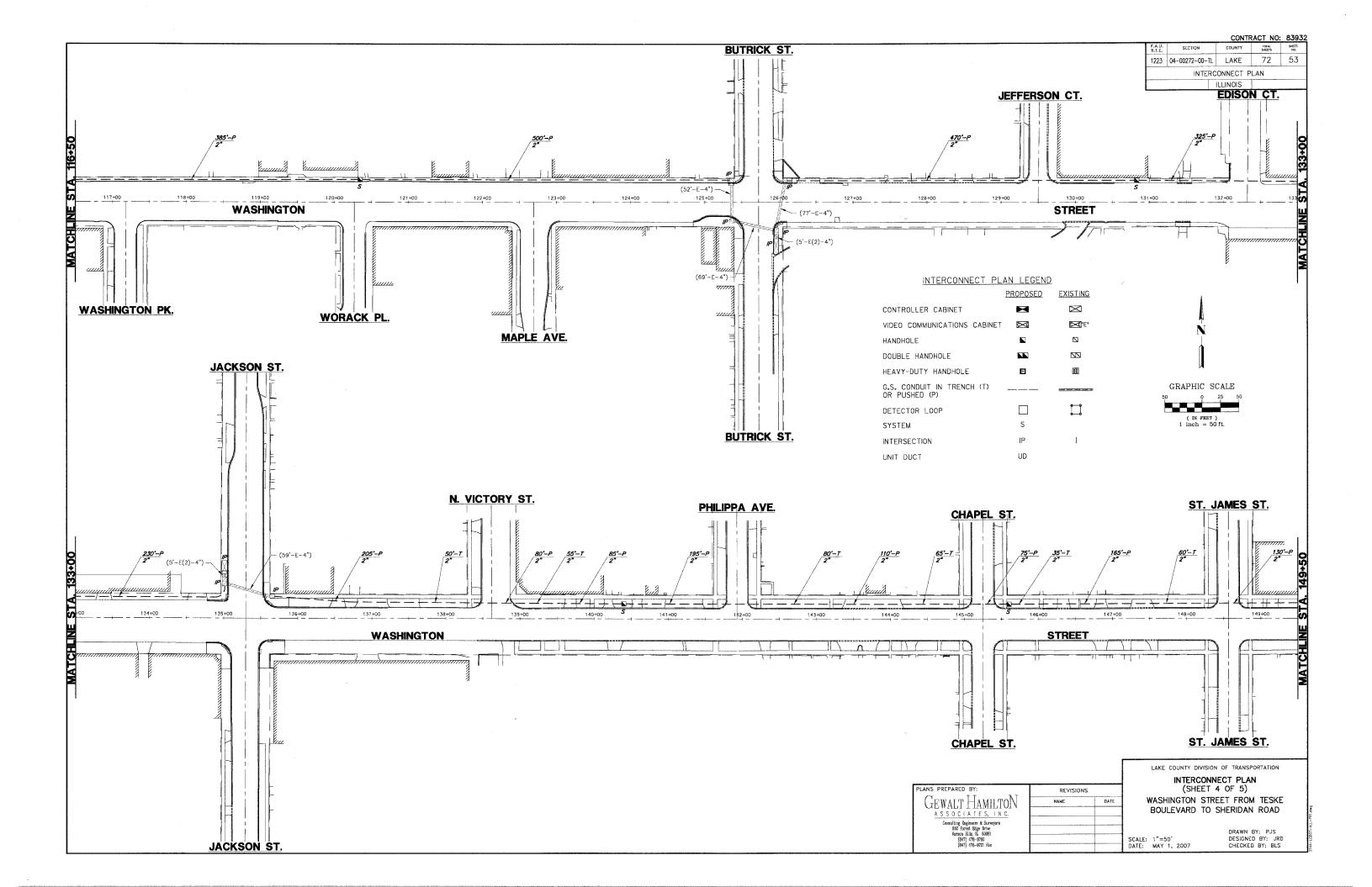


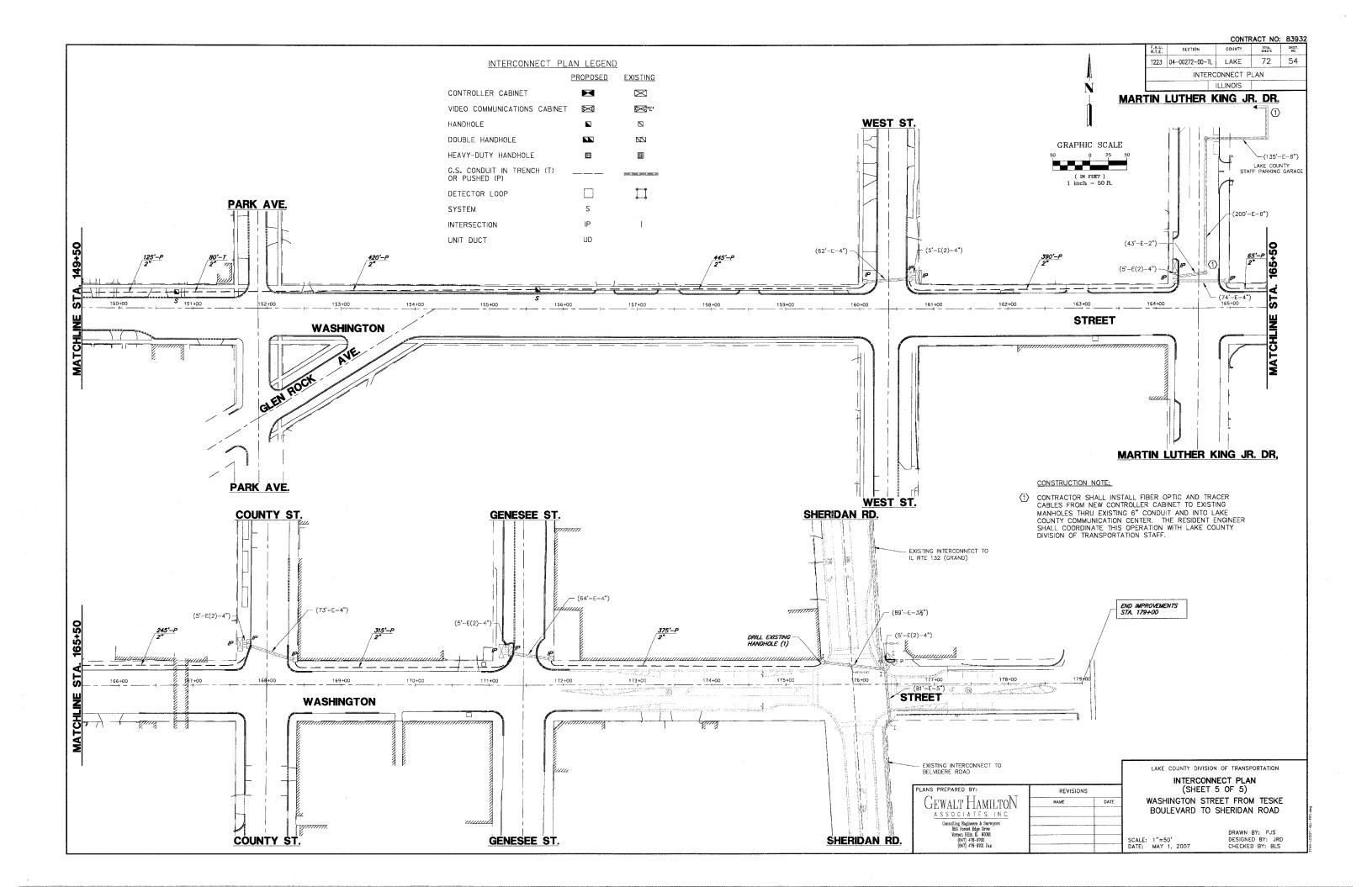


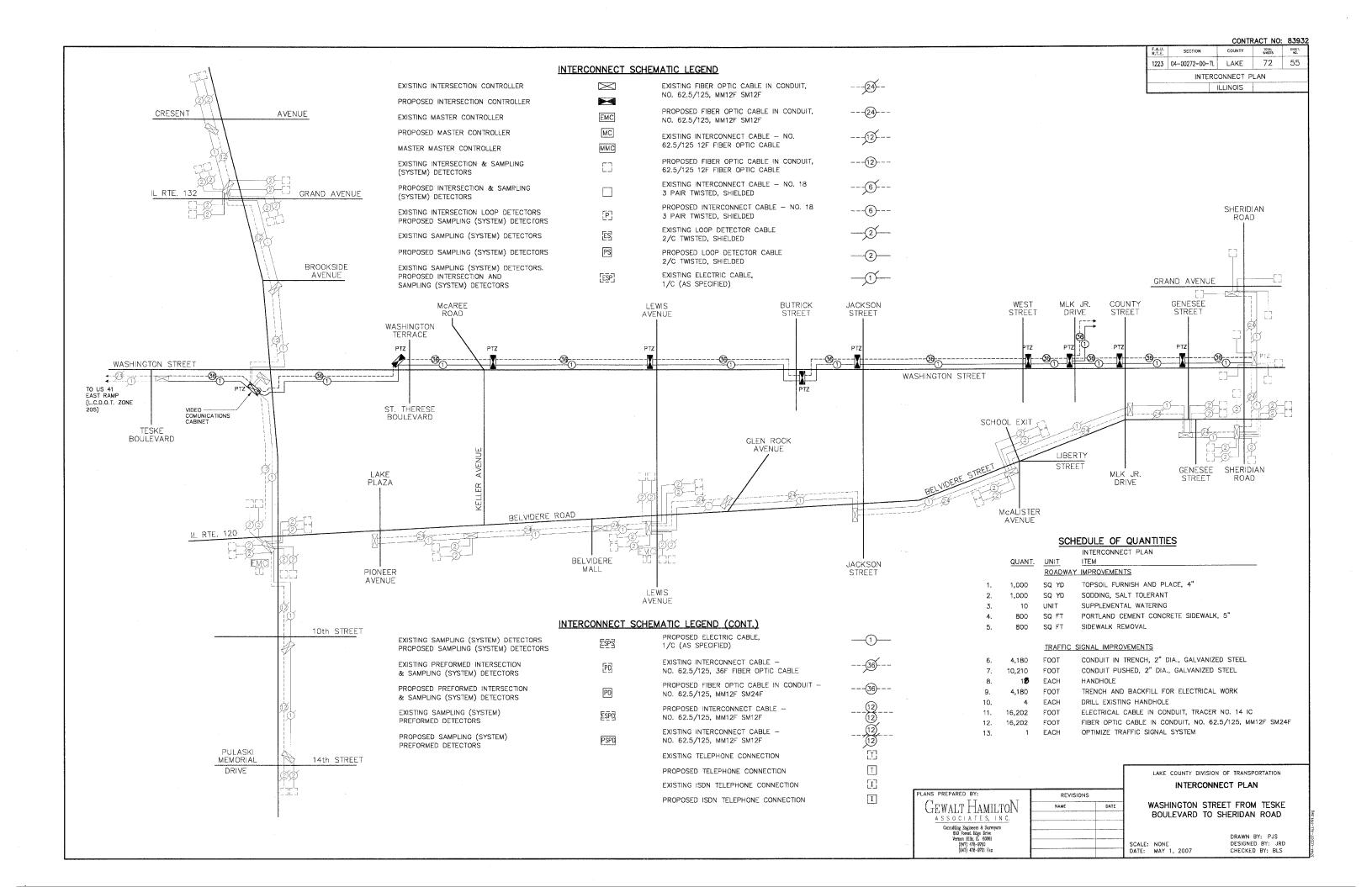


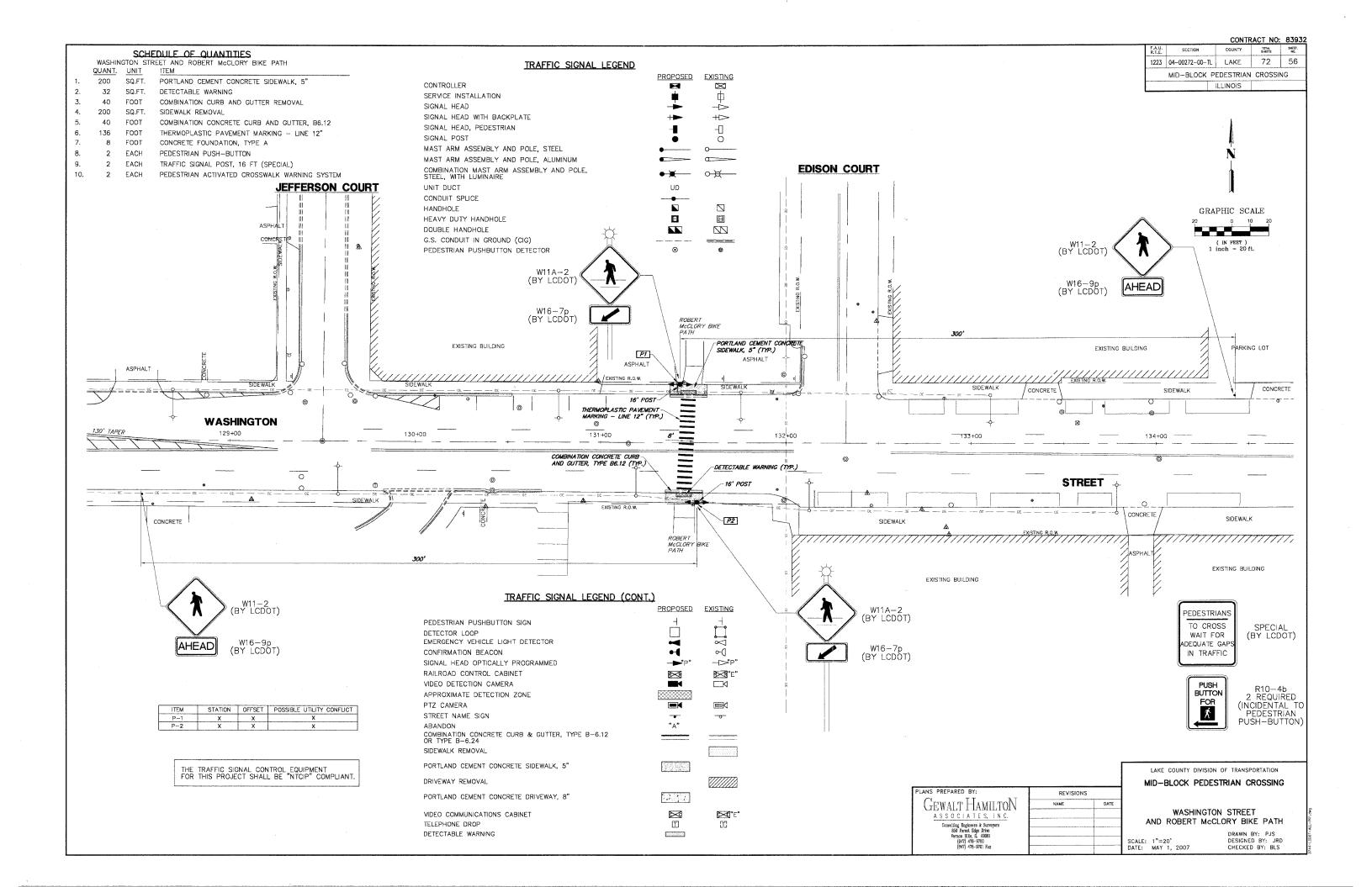


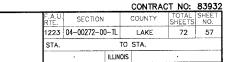


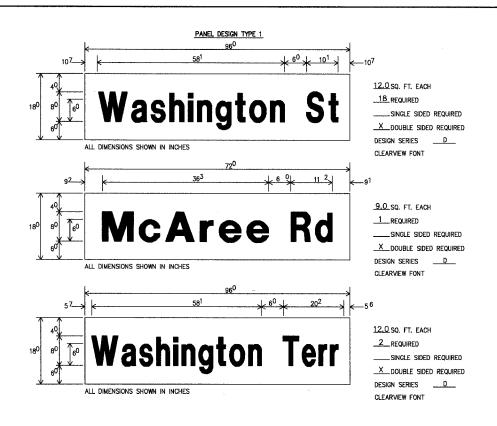


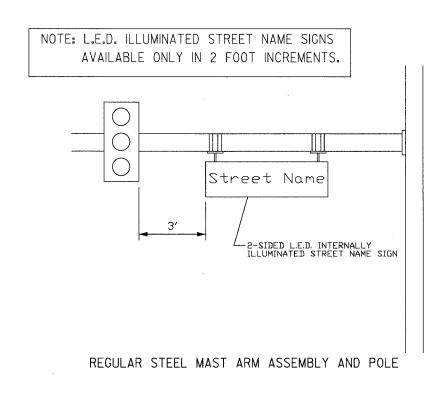


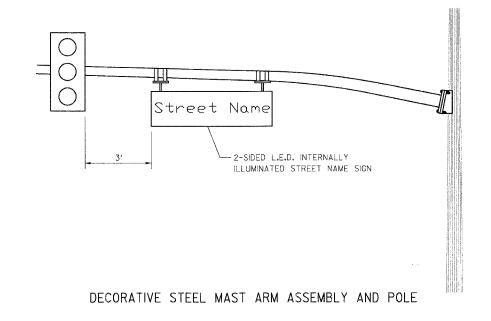






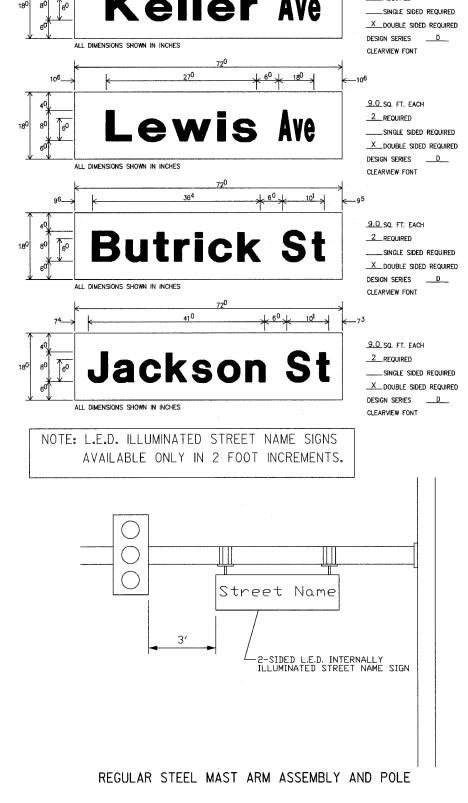


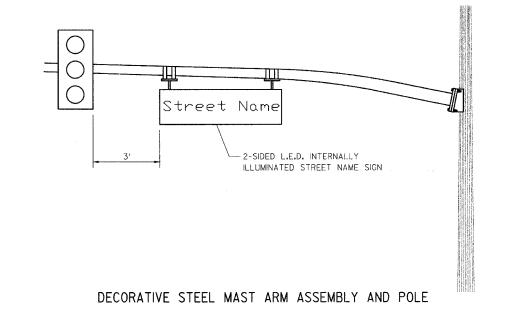




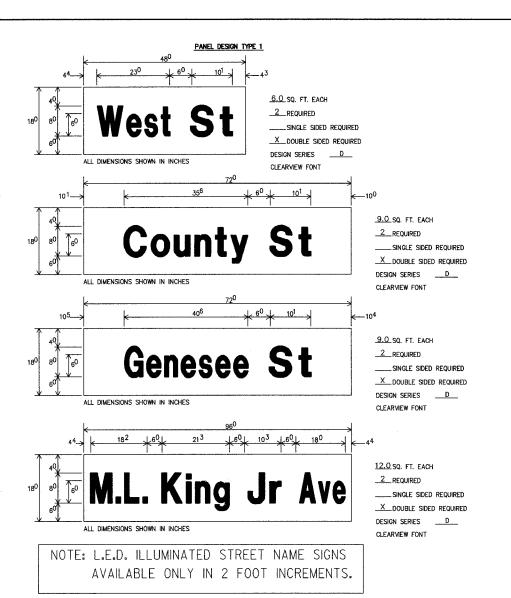
				業 Lake	Coun	ity portatio	n		
REVISIONS						24.11			
NAME	DATE		MAS	T ARM	Μ(JUI	NIED		
COMBINED SHEETS	2/1/07	l	STDI	FFT NA	ME	· <	ICNS		
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		l							
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	1								







				業 Lake	eCc n of T	ouni renep	ty ortatio	n		
REVISIONS										
NAME	DATE	l	MAS	T ARM	1 1	MC)UI	NIED		
COMBINED SHEETS	2/1/07		CTD	EET N.	٨k	45	C	ICNS		
		İ	311	LL I IV.	ΛIV	и <u>С</u>	3	IGNS		
		SCALE:	NONE	SHEET	2	OF	3	DESIGNED	BY:	JP:
		DATE:	7/26/06					CHECKED	BY.	ANI



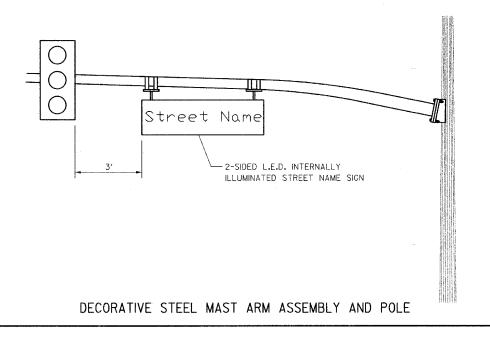
Street Name

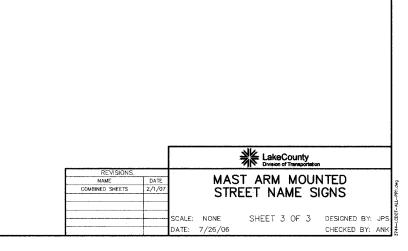
REGULAR STEEL MAST ARM ASSEMBLY AND POLE

-2-SIDED L.E.D. INTERNALLY ILLUMINATED STREET NAME SIGN

3′







F.A.U. SECTION

1223 04-00272-00-TL LAKE

COUNTY

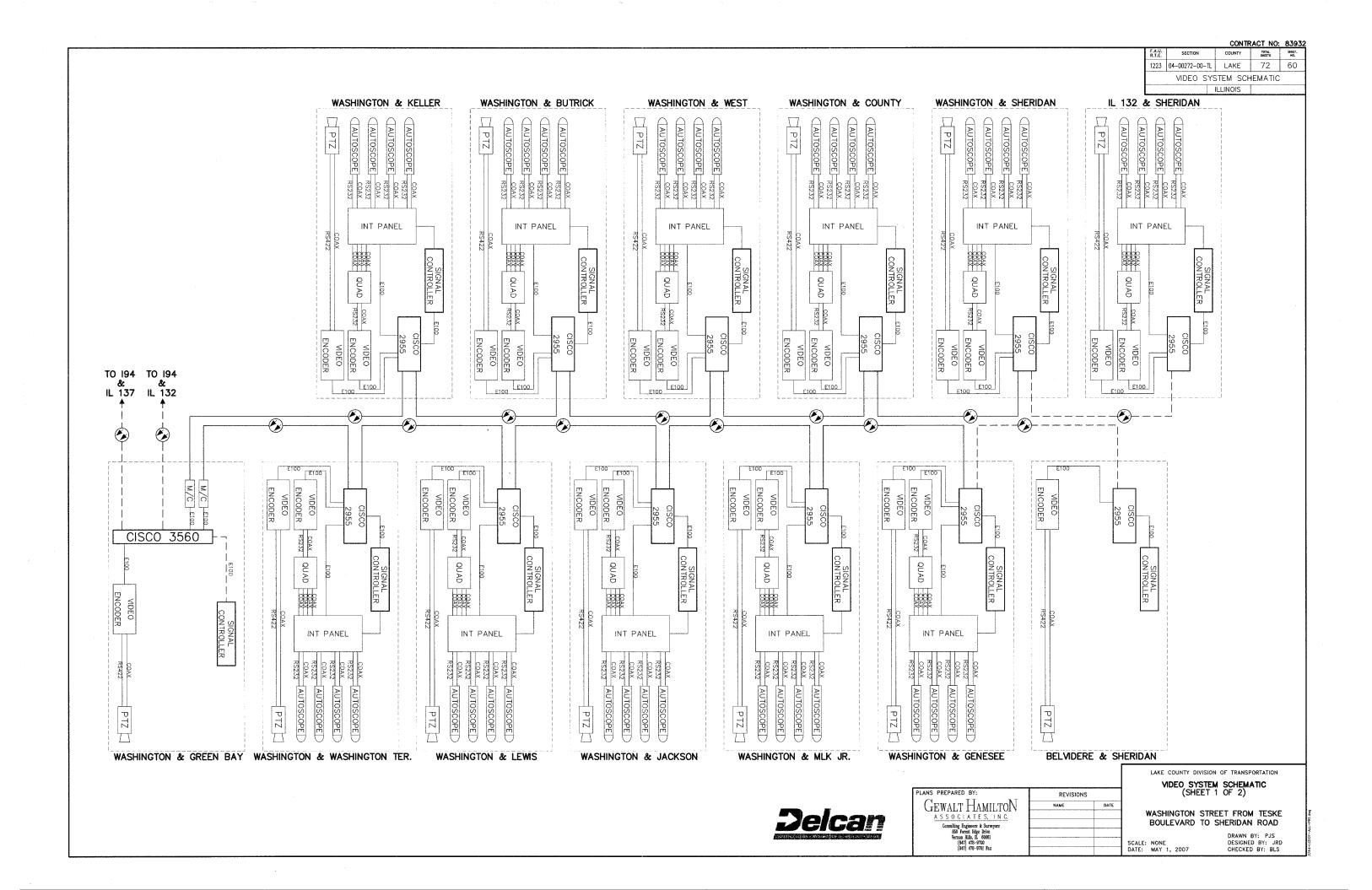
TO STA.

72 59

TRAFFIC SIGNAL MODERNIZATIONS
WASHINGTON STREET
TESKE BOULEVARD TO SHERIDAN ROAD

PROJ.# 3744.000 **DATE:** MAY 1, 2007

SHEET 59 OF 72



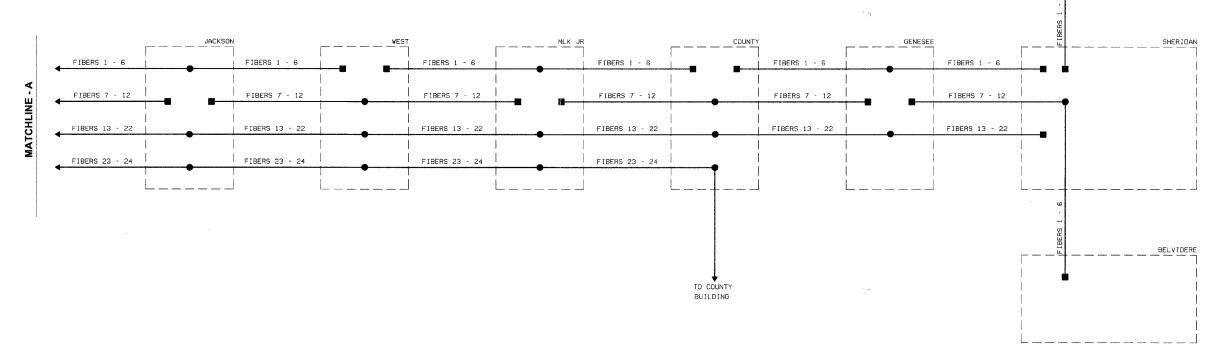
WASHINGTON STREET FROM TESKE BOULEVARD TO SHERIDAN ROAD

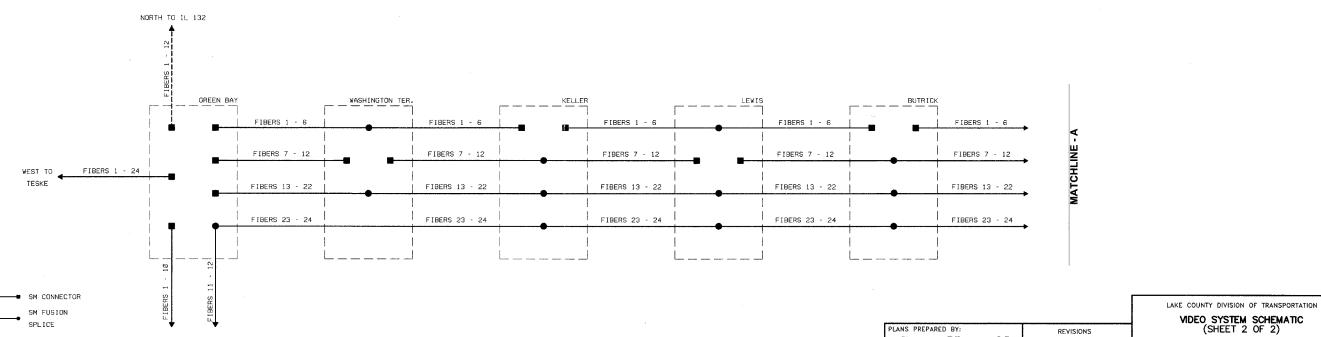
SCALE: NONE DATE: MAY 1, 2007 DRAWN BY: PJS DESIGNED BY: JRD CHECKED BY: BLS

NOTE ALL SPLICES AND CONNECTORS ARE REQUIRED

----- EXISTING

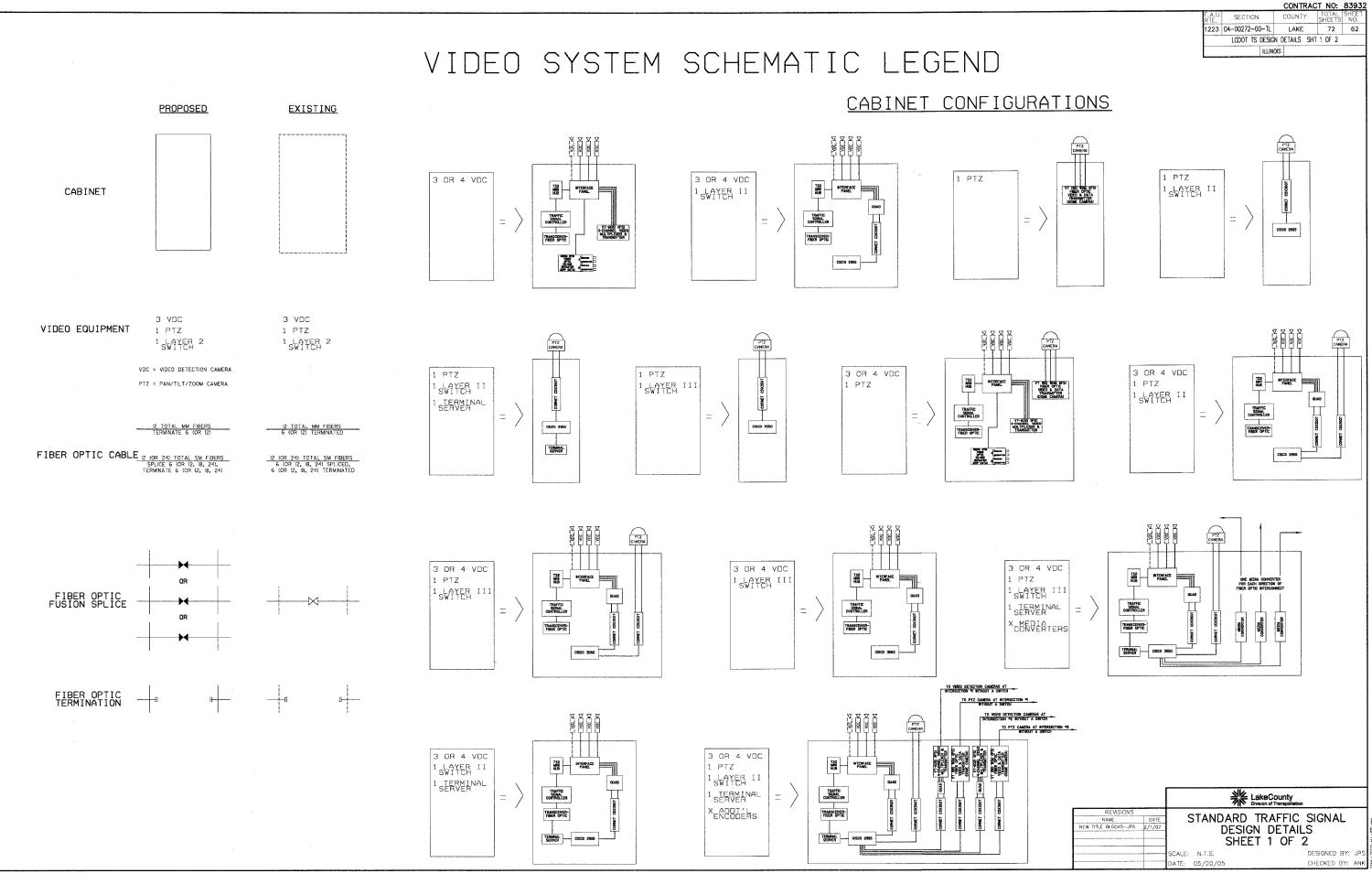
SOUTH TO IL 137





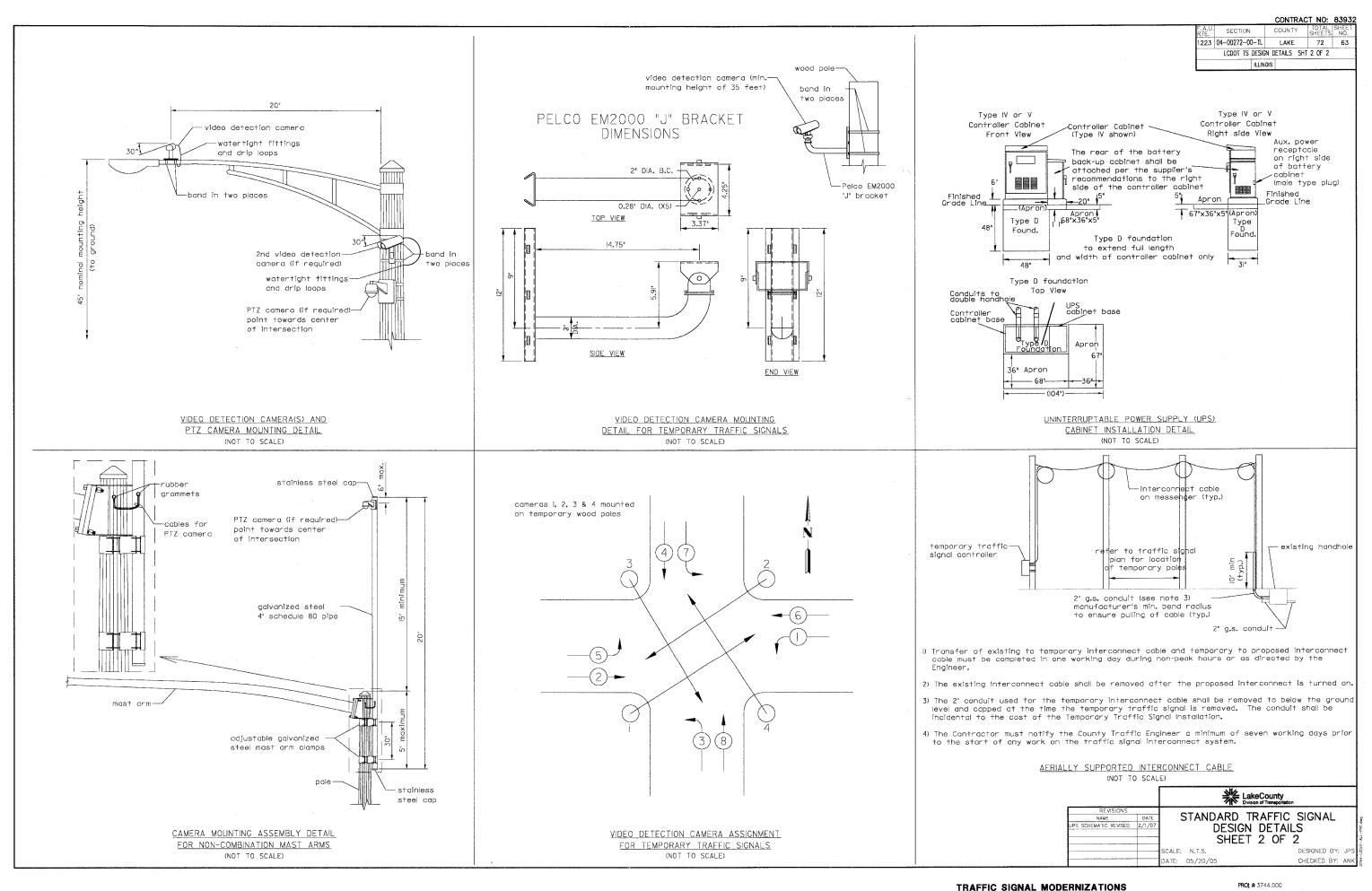
GEWALT HAMILTON

Delcan



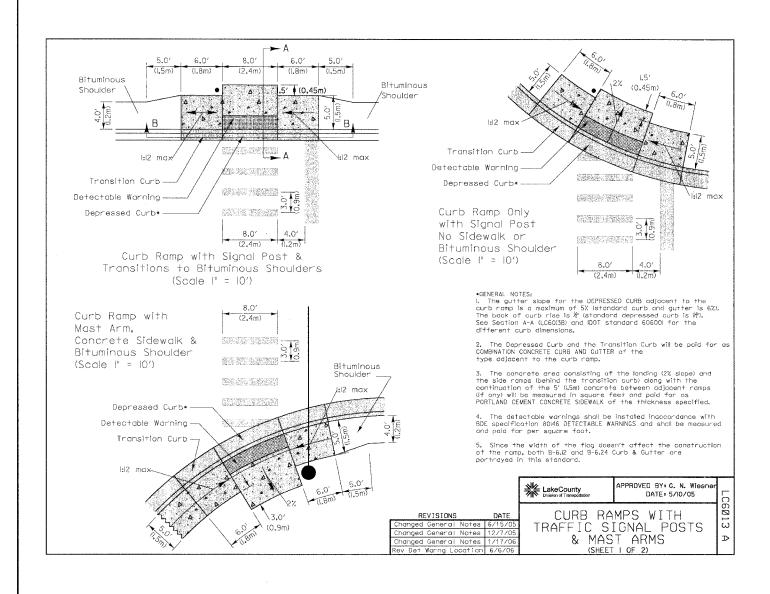
PROJ. # 3744.000 DATE MAY 1, 2007

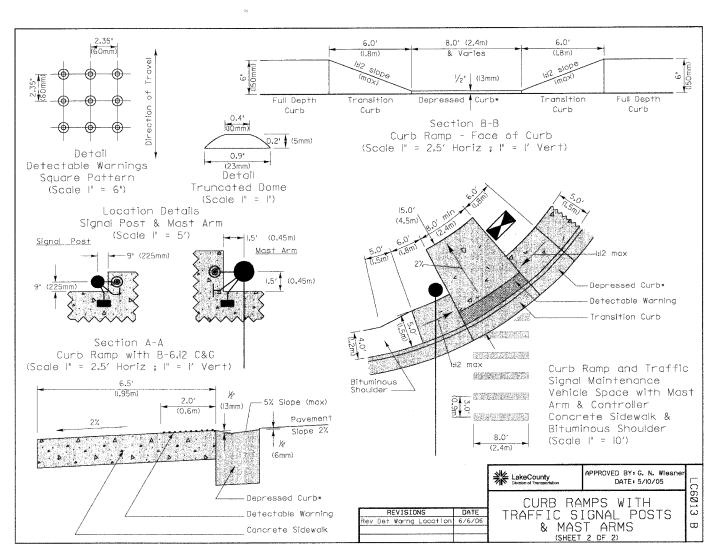
SHEET 62 OF 72

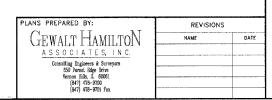


DATE MAY 1, 2007

		CONTR	RACT NO:	83932	
F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET. NO.	
1223	04-00272-00-TL	LAKE	72	64	
LCDOT CURB RAMPS FOR TS POSTS & MAST ARMS					
		ILLINOIS			





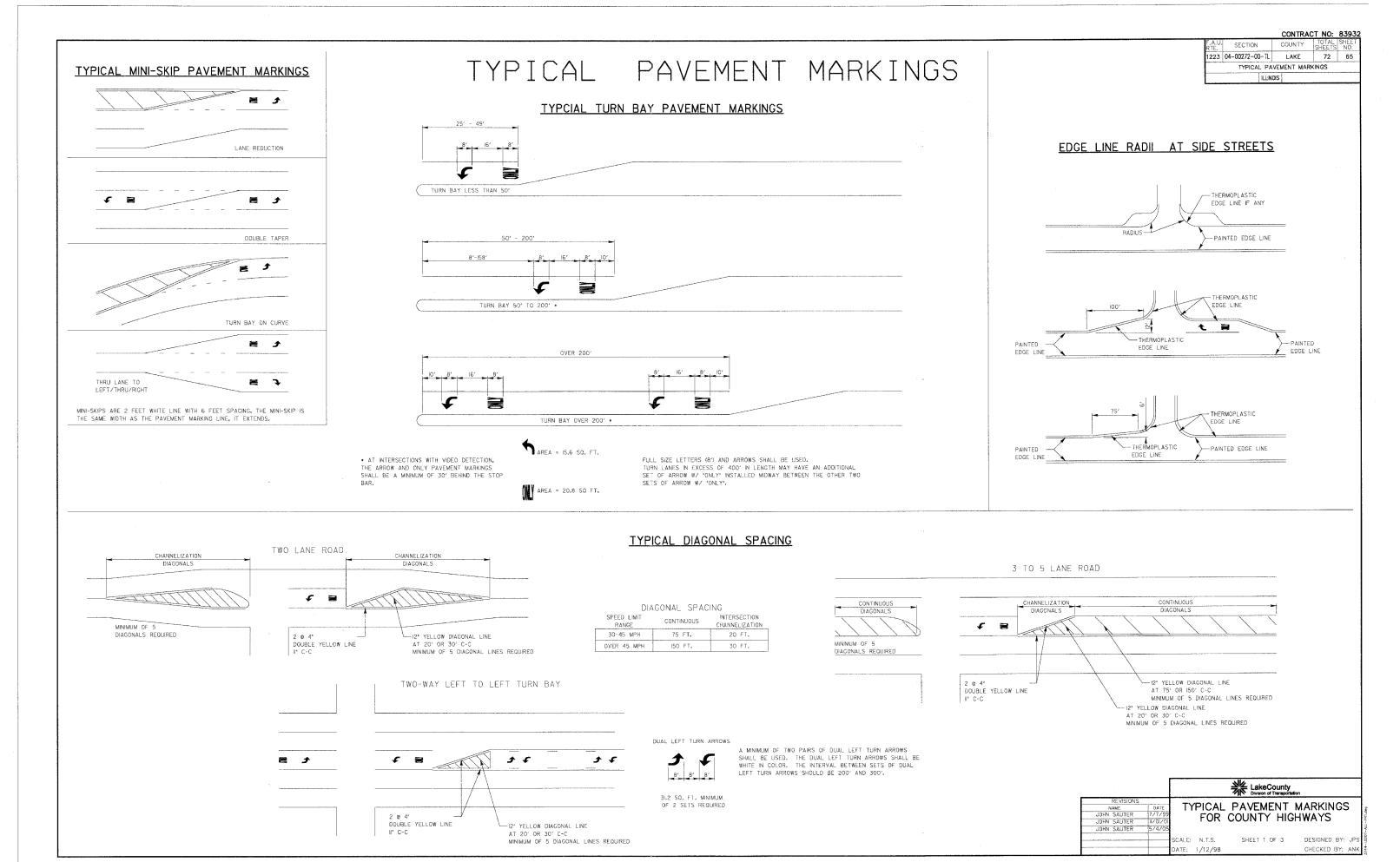


LAKE COUNTY DIVISION OF TRANSPORTATION

CURB RAMPS WITH TRAFFIC SIGNAL POSTS & MAST ARMS

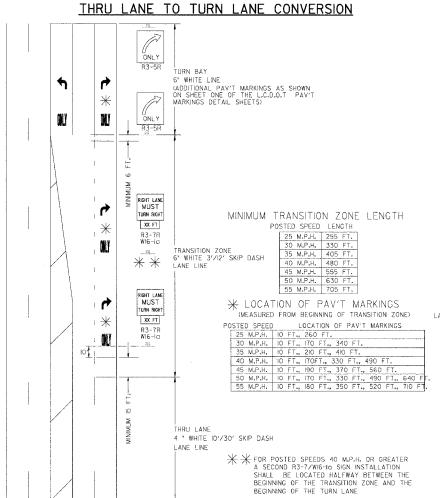
WASHINGTON STREET FROM TESKE BOULEVARD TO SHERIDAN ROAD

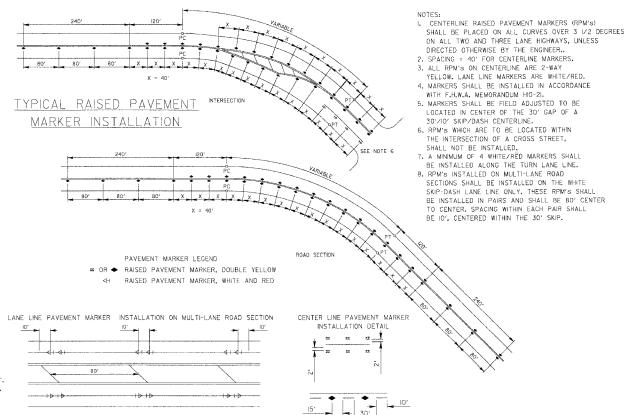
SCALE: NONE DATE: MAY 1, 2007 DRAWN BY: PJS DESIGNED BY: JRD CHECKED BY: BLS



SECTION COUNTY 1223 04-00272-00-TL LAKE 72 66 TYPICAL PAVEMENT MARKINGS AND MARKERS ILLINOIS

TYPICAL PAVEMENT MARKINGS AND RAISED PAVEMENT MARKERS

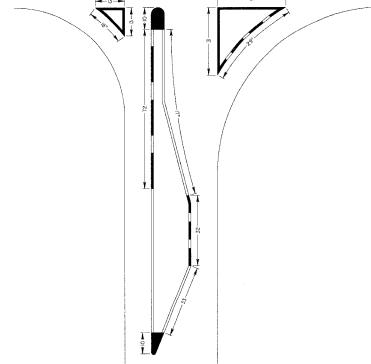




CROSSWALKS SIDEWALK WIDTH OF THE CROSSWALK IS GENERALLY 6' EXCEPT AT SCHOOL CROSSINGS AND BICYCLE CROSSINGS. WHICH CAN BE B'. 2. THE STOP BAR SHOULD BE INSTALLED A MINIMUM OF

CURB MARKING

4' IN ADVANCE OF THE CROSSWALK.



NOTES:
I. PAINT CURB AND NOSE SOLID FOR IO' OR RADIUS OF NOSE, WHICHEVER IS GREATER.
2. PAINT MINIMUM OF 3 STRIPES IN DIRECTION OF TRAFFIC.

3. REDUCED SPACING USED TO OBTAIN 3 STRIPE MINIMUM.
4. STRIPING RECOMMENDED ONLY WHERE OPERATIONAL

PROBLEMS DICTATE. 5. PAINT SOLID WHERE A MINIMUM OF 3 STRIPE CANNOT BE PLACED.

> JOHN SALITER JOHN SAUTER 1/01/0 JOHN SAUTER 5/4/0 JOHN SAUTER 5/24/0

LakeCounty TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS

REDUCED

SHEET 2 OF 3

8 4 8 4 8 4 8

PAVEMENT MARKING GUIDELINES - ENGLISH MEASUREMENTS

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE OF 2 LANE PAVEMENT	4 IN.	SKIP-DASH	YELLOW	IO FT. LINE WITH 30 FT. SPACE
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 IN. 2 @ 4 IN.	SOLID SOLID	YELLOW YELLOW	5 I/2 IN. C-C FROM SKIP-DASH CENTERLINE I I IN. C-C (OMIT SKIP-DASH CENTERLINE BETWEEN)
ENTERLINE ON MULTI-LANE UNDIVIDED	2 @ 4 IN.	SOLID	YELLOW	I I IN. C-C
LANE LINES	4 IN.	SKIP-DASH	WHITE	IO FT. LINE WITH 30 FT. SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2 FT. LINE WITH 6 FT. SPACE
EDGE LINES	5 IN. WHITE 4 IN. YELLOW	SOLID	WHITE - RIGHT YELLOW - LEFT	OUTLINE RAISED MEDIANS IN YELLOW
TURN LANE MARKINGS	6 IN. LINE FULL SIZE LETTERS AND SYMBOLS (8 FT.)	SOLID	WHITE	TURN ARROW 15.6 SQ. FT. STRAIGHT ARROW I 15 SQ. FT. ONLY 20.8 SQ. FT. COMB. ARROW 26.0 SQ. FT.
TWO WAY LEFT TURN MARKING	2 @ 4 IN. EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	IO FT. LINE WITH 30 FT. SPACE FOR SKIP-DASH 5 I/2 IN. C-C BETWEEN SKIP-DASH LINE AND SOLID LINE
	8 FT. LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN WARKING DETAIL
CROSSWALK	12 IN. @ 90°	SOLID	WHITE	12 IN. LONGITUDINAL BAR WITH 24 IN. SPACE 6 FT. TO 12 FT. WIDE SEE TYPICAL CROSSWALK MARKING DETAIL
STOP BARS	24 IN.	SOLID	WHITE	PLACE 4 FT. IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE PLACE AT DESIRED STOPPING POINT.
PAINTED MEDIANS	2 @ 4 IN. WITH I I IN. DIAGONALS @ 45* NO DIAGONALS USED FOR 4 FT. WIDE MEDIAN	SOLID.	YELLOW - 2-WAY TRAFFIC WHITE - FWAY TRAFFIC	I I IN. C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING DETAIL MINIMUM OF 5 DIAGONALS
GORE MARKING AND CHANNELIZING LINES	B IN. WITH 12 IN. DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS 15 FT. C-C (LESS THAN 30 M.P.H.) 20 FT. C-C (30 TO 45 M.P.H.) 30 FT. C-C (OVER 45 M.P.H.) MINIMUM OF 5 DIAGONALS
R.R. CROSSING	24 IN. TRANSVERSE LINES RR IS 6 FT. LETTER IG IN. LINE FOR "X"	SOLID.	WHITE	SEE LD.O.T. STD. 780001 SQ. FT. AREA 0F; "H" - 3.6 SQ. FT. / "R" "X" - 54.0 SQ. FT.
SHOULDER DIAGONALS	12 IN. @ 45°	SQLID	WHITE - RIGHT YELLOW - LEFT	50 FT. C-C (LESS THAN 30 M.P.H.) 75 FT. C-C (30 TO 45 M.P.H.) ISO FT. C-C (OVER 45 M.P.H.) MINIMUM OF 5 DIAGONALS

THE 'STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION' AND LDOT, HIGHWAY STANDARD 780001 EFFECTIVE JAN. 9, 1998

DOUBLE STRIPE CENTERLINE DETAIL FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO PART III "MARKINGS" IN THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

Road Surface

Road Surface SINGLE STRIPE CENTERLINE DETAIL

I I' LANE WIDTH

10'-31/2"

PAVEMENT CROSS SECTION SHOWING TYPICAL PAVEMENT MARKINGS (2-LANE ROADWAY)

> STATIONING DETAIL 1+00 VARIABLE EDGE OF PAVEMENT

* INLAYED PREFORMED Centerline markings are 4" lines at II" centers.

. INLAYED PREFORMED

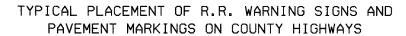
PLASTIC STATION NUMBER

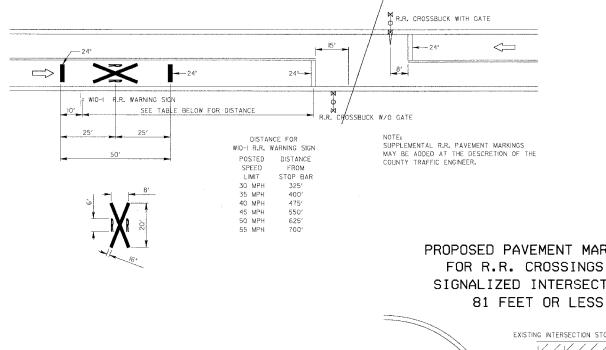
1'-91/2"

PROJ. # 3744.000

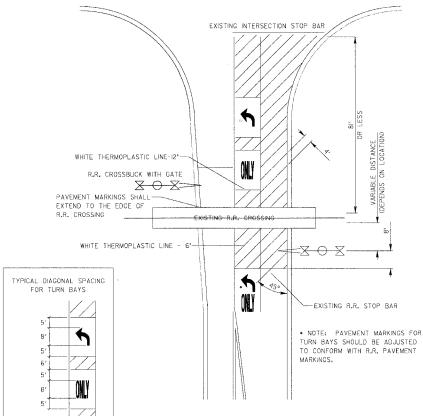
	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
	1223	04-00272-00-TL	LAKE	72	67				
	PAVEMENT MARKINGS FOR RAILROAD CROSSINGS								
1	luuren l								

TYPICAL RAIL ROAD RELATED PAVEMENT MARKINGS

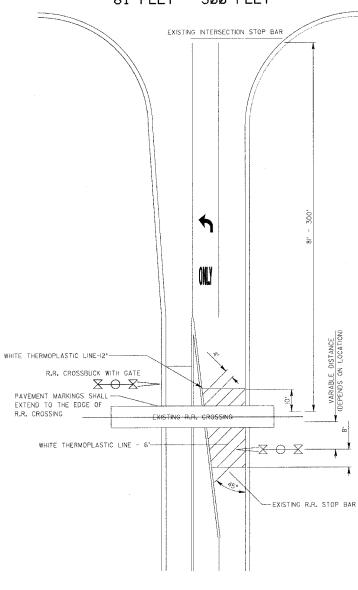




PROPOSED PAVEMENT MARKINGS FOR R.R. CROSSINGS AT SIGNALIZED INTERSECTIONS



PROPOSED PAVEMENT MARKINGS FOR R.R. CROSSINGS AT SIGNALIZED INTERSECTIONS 81 FEET - 300 FEET



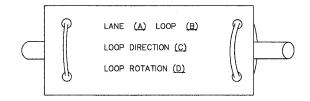
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	JOHN SAUTER	9/25/98		FOR	\sim	TIME	Y H	ICH	WAYS		
- 1	JOHN SAUTER	7/7/99		I OI		JOIN	, ,,	G	11/1/13		
- 1											
		-	SCALE:	N.T.S.		SHEET	3 OF 3	i	DESIGNED	BY:	JPS
1			DATE:	JAN. 12,	1998				CHECKED	BY:	ANK

TRAFFIC SIGNAL MODERNIZATIONS **WASHINGTON STREET** TESKE BOULEVARD TO SHERIDAN ROAD **DATE:** MAY 1, 2007

LOOP DETECTOR NOTES

- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- 2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- 3. EACH LOOP LEAD—IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD—IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD—IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- 4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- 6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- 7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

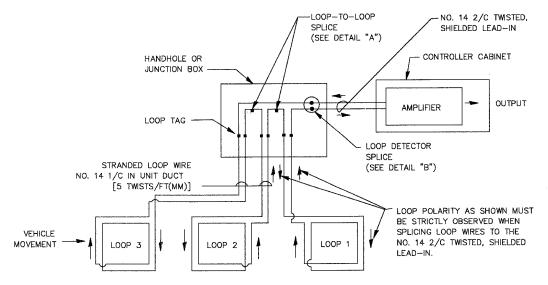
LOOP LEAD-IN CABLE TAG



- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

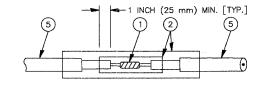
CONTRACT NO: 83932

RTE.	SECTION	COUNTY	SHEETS 72	NO.
1223 S1	04-00272-00-TL	TO STA.	/2	0.0

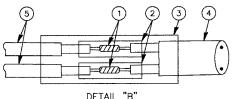


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



DETAIL "A" LOOP-TO-LOOP SPLICE



DETAIL "B"

LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

- (1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.
- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

REVISIONS
NAME DATE

DISTRICT ONE

STANDARD TRAFFIC SIGNAL

DESIGN DETAILS

SCALE: VERT.
HORIZ.
DATE HORIZ.
DATE 1-01-02

STANDARD TRAFFIC SIGNAL

DESIGN DETAILS

SECTION COUNTY LAKE 72 69 1223 04-00272-00-TL STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

NOTES:

AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION. EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.

AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE

- A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
- C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- ABOVE ADJACENT SIDEWALK

PEDESTRIAN SIGNAL PUSHBUTTON

RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCD (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE

MOUNTED ON A SEPARATE POST.

SEE TABLE I

PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:

- - B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.

 - D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).
 - E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m)
- 2. PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK
- 3. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.
- 4. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST

PEDESTRIAN SIGNAL POST

TRAFFIC SIGNAL MAST ARM AND POST

MAST ARM MOUNTED SIGNAL IN PROPOSED

& FUTURE SIDEWALK AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND

> CURB, SHOULDER, OR EDGE OF PAVEMENT (SEE PLANS)

> > see Table I

PUSHBUTTON DETECTOR

2'(600 mm) TYP.

5' (1.5m) MAX._

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

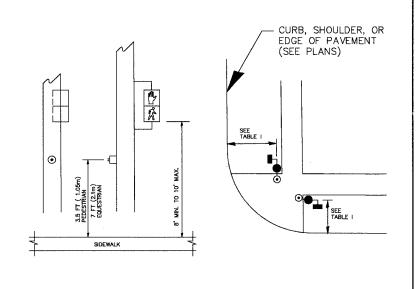
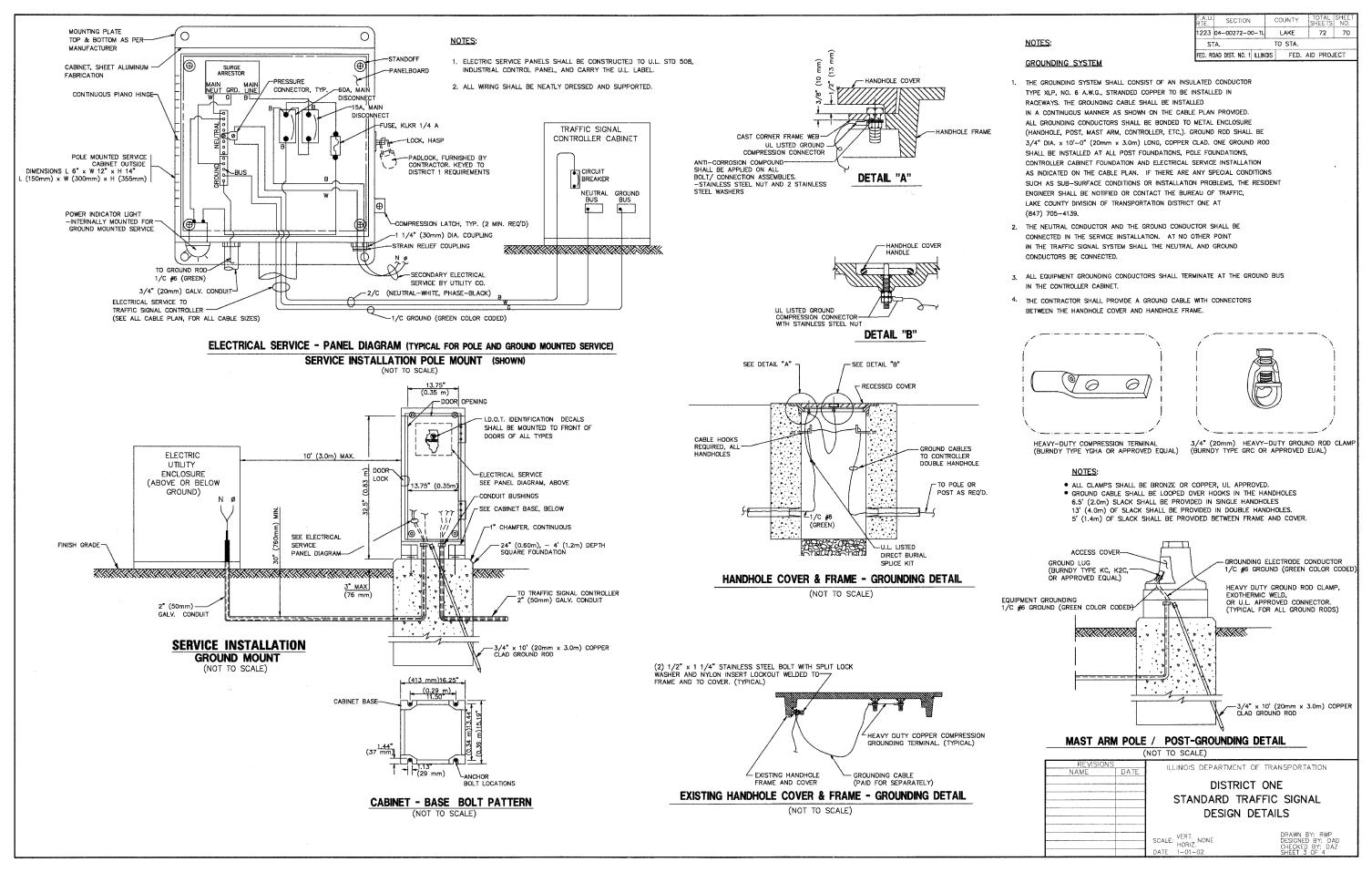


TABLE I

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	, 4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

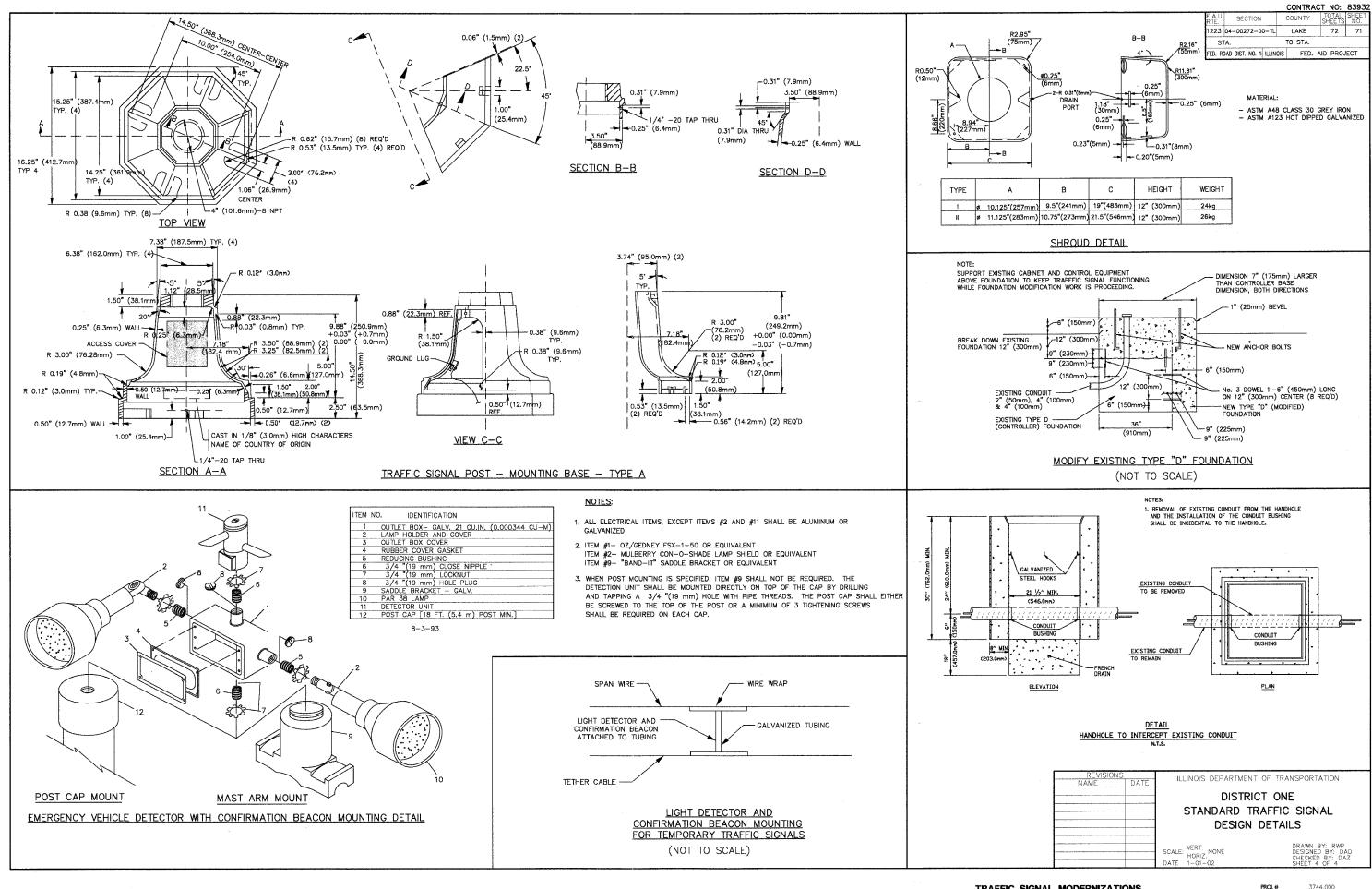
ILLINOIS DEPARTMENT OF TRANSPORTATION DATE DISTRICT ONE STANDARD TRAFFIC SIGNAL **DESIGN DETAILS** SCALE: VERT. HORIZ. DATE 1-01-02 NONE



PROJ.# 3744,000

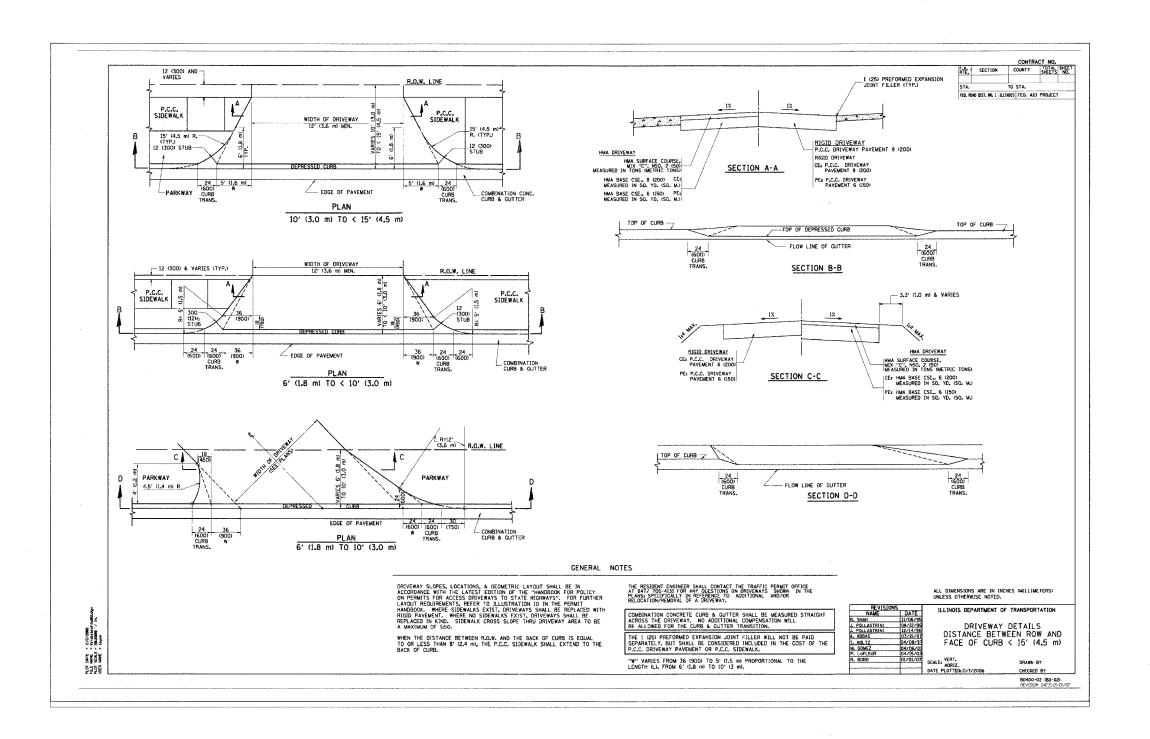
DATE: MAY 1, 2007

SHEET 70 OF 72



PROJ.# 3744.000 DATE: MAY 1, 2007 SHEET 71 OF 72

| F.A.U. | SECTION | COUNTY | IDVAL | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | SHEETS | S



PLANS PREPARED BY:

CEWALT HAMILTON

ASSOCIATES, IN C.

Consulting Engineers & Surveyors
880 Forces. Light Brite.
Weteron Hills, II. 60061
(847) 470-5700 Hax

LAKE COUNTY DIVISION OF TRANSPORTATION

DRIVEWAY DETAILS
DISTANCE BETWEEN ROW AND F.O.C. <15'

WASHINGTON STREET FROM TESKE BOULEVARD TO SHERIDAN ROAD

DRAWN BY: PJS
E: NONE DESIGNED BY: JRD
MAY 1, 2007 CHECKED BY: BLS