4-23-10 LETTING ITEM 352

F.A.U.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1285	2008	1	161

SECTION: 02-00075-00-PV

CONTRACT NO. 63083

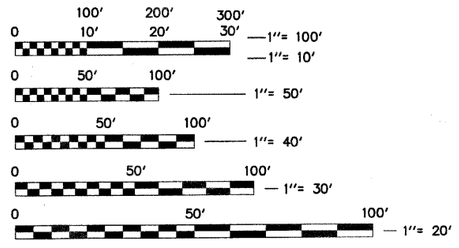
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAU ROUTE 1285 (PALATINE ROAD)
AT PLUM GROVE ROAD INTERSECTION
INTERSECTION IMPROVEMENT
SECTION 02-00075-00-PV
PROJECT NO. ARA-F-CMF-0305(038)
JOB NO. C-91-121-05
VILLAGE OF PALATINE
COOK COUNTY

LOCATION OF SECTION INDICATED THUS: ▬

PROJECT LOCATED IN VILLAGE OF PALATINE



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

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

CONTRACT NO. 63083

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR HIGHWAY STANDARDS, SEE SHEET NO. 2

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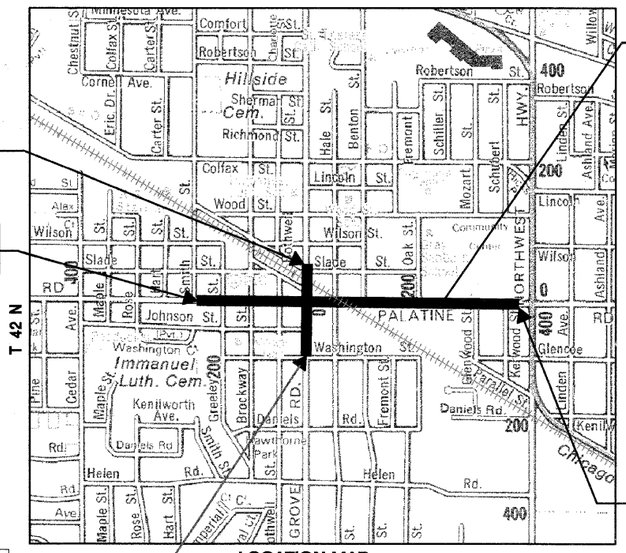

LOCATION MAP
SCALE: NTS

PROJECT LOCATION

END PROJECT SLADE STREET STA. 61+80.00

BEGIN PROJECT SMITH STREET STA. 202+83.31

END PROJECT KERWOOD STREET STA. 239+40.12

BEGIN PROJECT WASHINGTON ST. STA. 51+35.35

PALATINE ROAD
GROSS LENGTH = 3656.45 FEET (0.6925) MILES

PLUM GROVE ROAD
GROSS LENGTH = 984.63 FEET (0.1865) MILES

TOTAL NET LENGTH = 4641.08 FEET (0.8790) MILES

TRAFFIC DATA:

PALATINE ROAD { 2006 ADT = 20,000
2030 ADT = 28,000
SPEED LIMIT = 30 MPH

PLUM GROVE ROAD { 2006 ADT = 12,400
2030 ADT = 19,000
SPEED LIMIT = 30 MPH

DESIGN DESIGNATION:
2100 (30) MINOR ARTERIALS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED October 22 2009
VILLAGE ENGINEER

PASSED October 28, 2009 2009
DISTRICT 1 ENGINEER LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW October 29, 2009 2009
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

ALAN R. SWANSON
062-035359
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS
Expires: 11/30/11

October 22 2009
ALAN R. SWANSON, McDONOUGH ASSOCIATES INC.

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

ASSOCIATE FIELD ENGINEER - KEVIN STALLWORTH (847) 705-4169

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	2
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, DISTRICT ONE & HIGHWAY STANDARDS AND TREE REMOVAL SCHEDULE
3	GENERAL NOTES
4-12	SUMMARY OF QUANTITIES
13-19	TYPICAL SECTIONS
20-21	EARTHWORK SCHEDULE
21-22	SCHEDULE OF QUANTITIES
23-24	ALIGNMENT AND TIES
25-28	PLAN AND PROFILE
29	HALE STREET PLAN & SIDEWALK DETAILS
30-31	MAINTENANCE OF TRAFFIC - TYPICAL SECTIONS
32-35	MAINTENANCE OF TRAFFIC - STAGING PLANS
36-38	MAINTENANCE OF TRAFFIC - DETOUR PLANS
39-43	TEMPORARY EROSION CONTROL PLANS
44-54	DRAINAGE AND UTILITIES PLANS
55-59	WATER MAIN PLANS & DETAILS
60	INTERSECTION PAVING DETAILS
61	INTERSECTION PAVING, MSE RETAINING WALL AND P.C.C. SIDEWALK, SPECIAL DETAILS
62-72	PLAT OF HIGHWAYS
73-74	PAVEMENT MARKING AND SIGNING PLANS
75-78	SOIL PLANS & PROFILES
79-92	TRAFFIC SIGNAL PLANS - TEMPORARY & PERMANENT
93-97	TRAFFIC SIGNAL PLANS - STANDARD DETAIL SHEETS
98-101	TRAFFIC SIGNAL PLANS - INTERCONNECT
102-113	ELECTRICAL PLANS
114-126	DISTRICT 1 DETAILS
127-161	CROSS SECTIONS

DISTRICT ONE STANDARDS

BD0156-07 (BD-01)	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE
	OF CURB AND EDGE OF SHOULDER >=15' (4.5 m)
BD400-02 (BD-02)	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE
	CURB < 15' (4.5 m)
BD500-01 (BD-07)	DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER
BD400-04 (BD-22)	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
BD400-05 (BD-32)	BUTT JOINT AND HMA TAPER DETAILS
BD600-11 (BD-37)	MANHOLE TYPE A 7 FOOT DIAMETER
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS,
	INTERSECTIONS, AND DRIVEWAYS
TC-11	TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT
	MARKERS (SNOW-PLOW RESISTANT)
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-16	PAVEMENT MARKINGS LETTERS AND SYMBOLS FOR
	TRAFFIC STAGING
TC-21	TYPICAL MARKING FOR CLOSING STATE HIGHWAYS
TC-22	ARTERIAL ROAD INFORMATION SIGN
TC-23	TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING
	TREATMENT FOR RAILROAD CROSSINGS.

HIGHWAY STANDARDS

000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS (8 SHEETS)
424001-05	CURB RAMPS FOR SIDEWALKS (2 SHEETS)
602001-01	CATCH BASIN, TYPE A
602011-01	CATCH BASIN, TYPE C
602401-02	MANHOLE, TYPE A
602501-01	VALVE VAULT, TYPE A
602701-02	MANHOLE STEPS (2 SHEETS)
604001-03	FRAME AND LIDS TYPE 1
604051-03	FRAME AND GRATE TYPE 11
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER (2 SHEETS)
606301-04	PC CONCRETE ISLANDS AND MEDIANS (2 SHEETS)
701301-03	LANE CLOSURE 2L, 2W SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY
701501-05	URBAN LANE CLOSURE, 2L, 2W UNDIVIDED
701502-03	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE (2 SHEETS)
701601-06	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN (2 SHEETS)
701602-04	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE (4 SHEETS)
701606-06	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN (2 SHEETS)
701701-06	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-04	LANE CLOSURE, MULTILANE, 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-01	TRAFFIC CONTROL DEVICES (3 SHEETS)
720001-01	SIGN PANEL MOUNTING DETAILS
720006-02	SIGN PANEL ERECTION DETAILS (2 SHEETS)
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
720021-02	SIGN PANELS, EXTRUDED ALUMINUM TYPE (2 SHEETS)
729001-01	APPLICATION OF TYPE A AND B METAL POSTS
780001-02	TYPICAL PAVEMENT MARKINGS (2 SHEETS)
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
814001-02	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
857006-01	SUPERVISED RAILROAD INTERCONNECT CIRCUIT
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
876001-01	PEDESTRIAN PUSH BUTTON POST
877001-04	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877011-04	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-08	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS

PALATINE ROAD AND PLUM GROVE ROAD TREE REMOVAL SCHEDULE

6-15 UNIT DIAMETER TREE REMOVAL SCHEDULE

STATION	TREE DIA.	OFFSET
209+68.7	14"	24.2' (R)
209+98.0	12"	24.5' (R)
210+01.0	10"	25.9' (L)
210+68.2	12"	24.5' (R)
211+33.7	10"	24.3' (R)
211+45.4	12"	25.4' (L)
212+08.0	14"	24.2' (R)
212+28.9	6"	40.8' (L)
212+82.7	6"	41.8' (L)
213+44.6	12"	25.8' (L)
213+51.7	12"	21.5' (R)
213+94.2	12"	21.3' (R)
214+17.1	12"	25.6' (L)
214+25.0	8"	23.8' (R)
214+80.7	12"	25.6' (L)
214+90.2	8"	22.2' (R)
216+68.1	6"	21.2' (R)
225+41.8	12"	21.7' (L)
225+76.3	12"	22.4' (L)
226+84.4	12"	21.2' (R)
227+24.4	15"	20.9' (L)
227+29.5	15"	21.1' (L)
227+70.6	12"	21.1' (L)
228+11.7	15"	20.7' (L)
233+69.8	10"	20.5' (L)
53+57.5	6"	23.3' (R)
55+25.2	12"	22.0' (R)
55+65.3	12"	22.9' (R)
56+00.0	8"	22.9' (R)
56+20.8	6"	22.9' (L)
56+49.4	6"	22.9' (L)
57+17.6	6"	23.9' (R)
58+80.5	10"	35.2' (L)
60+20.9	14"	31.7' (R)
TOTAL:	361	UNIT DIA.

OVER 15 UNIT DIAMETER TREE REMOVAL SCHEDULE

STATION	TREE DIA.	OFFSET
206+92.5	24"	31.5' (L)
208+42.5	20"	23.4' (R)
210+32.2	16"	24.5' (R)
211+02.8	24"	24.5' (R)
211+73.1	20"	24.3' (R)
212+32.8	20"	46.8' (R)
212+78.4	24"	36.2' (R)
212+78.4	26"	72.7' (R)
215+05.1	32"	39.0' (L)
215+36.1	20"	39.0' (L)
217+42.6	20"	42.6' (L)
217+63.2	16"	41.3' (R)
219+32.8	22"	139.7' (L)
219+34.2	20"	90.5' (L)
219+36.3	18"	43.5' (L)
223+45.7	28"	24.1' (R)
225+01.0	42"	21.7' (L)
228+41.8	17"	20.7' (L)
229+53.9	19"	22.0' (L)
236+38.3	27"	19.4' (L)
237+54.0	36"	17.1' (L)
52+51.7	20"	23.1' (L)
55+33.3	22"	22.9' (L)
55+72.8	25"	23.9' (L)
58+71.7	32"	22.0' (R)
TOTAL:	590	UNIT DIA.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE

PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION

SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

INDEX OF SHEETS, DISTRICT ONE & HIGHWAY STANDARDS AND TREE REMOVAL SCHEDULE

SCALE: VERT. N.T.S. HORIZ. N.T.S.

DRAWN BY JPW

DATE OCTOBER 19, 2009

CHECKED BY BA

INDEX

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	3
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083

GENERAL NOTES:

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E. (1-800-892-0123) OR 811 FOR FIELD LOCATIONS BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED).

2. ALL UNDERGROUND UTILITY LOCATIONS, INCLUDING SANITARY SEWERS, STORM SEWERS, WATER MAINS, AND THEIR SERVICE LINES, SHOWN ON THE PLANS ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE THE RESPECTIVE UTILITY COMPANIES FIELD-LOCATE ALL UTILITIES, ASCERTAIN THEIR STATUS AND ADJUST OR RELOCATE THESE UTILITIES, AS NECESSARY, PRIOR TO STARTING CONSTRUCTION.

3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS PRIOR TO BIDDING ON THIS PROJECT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR FAILURE TO VERIFY EXISTING DIMENSIONS OR CONDITIONS.

4. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, MUNICIPALITIES AND ADJACENT CONTRACTORS.

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

6. WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.

7. POROUS GRANULAR EMBANKMENT, SUBGRADE (PGES) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.03 AND THE IDOT STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

8. ANY REFERENCE TO "STANDARD" THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE CONSIDERED TO BE THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2007 BY THE STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION, AND "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISONS" DATED JANUARY 1, 2010.

9. THE STATION/OFFSET/ELEVATIONS NOTED FOR ALL DRAINAGE STRUCTURES LOCATED IN THE CURB LINE REFER TO THE POSITION OF THE ADJACENT PROPOSED EGDE OF PAVEMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE OFFSET NECESSARY TO THE STRUCTURES TO SET THE FRAME AND GRATES IN THE PROPER LOCATION. ALL OTHER STRUCTURES ARE DIMENSIONED TO THE CENTER OF THE STRUCTURE; ELEVATION INDICATES RIM GRADES.

10. THE CONTRACTOR SHALL BE RESPONSBLE FOR CONTACTING LOCAL AGENCIES MAINTAINING SANITARY SEWERS, WATERMAINS, AND STREET LIGHTS TO VERIFY THE MATERIALS AND METHODS ALLOWED FOR ADJUSTMENT, RELOCATION, OR EXTENSION OF THE UTILITY INVOLVED. THE MATERIAL AND THE METHODS SHALL BE TO THE SATISFACTION OF THE VILLAGE OF PALATINE.

11. THE LOCATION AND ELEVATION OF EXISTING UTILITIES ARE APPROXIMATE AND ARE PROVIDED BY THE OWNERS. THE EXACT LOCATIONS AND ELEVATIONS ARE TO BE VERIFIED BY THE CONTRACTOR THROUGH THE OWNER OF THE UTILITY.

12. THE COST OF MAKING STORM SEWER CONNECTIONS TO EXISTING OR PROPOSED SEWER SHALL BE INCIDENTAL TO THE COST OF NEW STORM SEWER BEING INSTALLED.

13. SEWER OR CULVERT TRENCHES CROSSING TRAFFIC LANES SHALL BE TEMPORARILY PATCHED. THE COST OF PATCHING WILL WILL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR SEWER OR CULVERT. THIS PRICE SHALL INCLUDE THE COST OF MAINTAINING THE PATCH TO THE SATISFACTION OF THE ENGINEER.

14. THE UNIT PRICE FOR ITEMS USED TO CONSTRUCT TEMPORARY PAVEMENT OR ACCESS ROADS SHALL INCLUDE ALL EQUIPMENT, LABOR AND MATERIAL REQUIRED TO PLACE , REMOVE, AND DISPOSE OF THE TEMPORARY PAVEMENT OR ACCESS ROAD.

15. SUFFICIENT DRAINAGE FACILITIES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION TO FACILITATE SURFACE RUNOFF. WHEN ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTER OR DRAINAGE STRUCTURES SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS ALL DRAINAGE STRUCTURES SO AFFECTED SHALL BE FREE FROM DIRT AND DEBRIS. THE WORK SHALL BE INCLUDED IN THE COST OF FURNISHED EXCAVATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PLAN HIS OPERATIONS, WITH THE APPROVAL OF THE ENGINEER IN THE FIELD, SO AS TO UTILIZE THE FACILITIES PROVIDED TO PREVENT LOCAL FLOODING AND INSURE PROPER SURFACE RUNOFF. ANY MINOR DITCH GRADING AS DIRECTED BY THE ENGINEER, NECESSARY TO PROVIDE FOR THE INTERIM DRAINAGE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE FURNISHED EXCAVATION.

16. THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMANTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK (LUST) CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION. THIS WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH SECTION 669 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2007.

17. THE CONTRACTOR SHALL CONSTRUCT 6" OF SUB-BASE GRANULAR MATERIAL, TYPE B UNDER THE BRICK PAVERS AT INTERSECTIONS AND UNDER THE BRICK PAVERS ALONG THE EDGE ON BOTH SIDES AS SHOWN ON SHEETS DET-1 AND DET-2.

18. THE CONTRACTOR SHALL CONSTRUCT THE CONCRETE UNDER THE BRICK PAVERS LOCATED AT THE EDGE OF THE SIDEWALK AS A PART OF THE BRICK PAVER CONSTRUCTION. THE COST SHALL BE INCIDENTAL TO THE COST OF BRICK PAVERS.

19. THE PROPOSED COMBINATION CURB AND GUTTER SHALL BE DEPRESSED ACROSS ALL DRIVEWAYS, HANDICAPPED RAMPS AND/OR AS SPECIFIED BY ENGINEER. HANDICAPPED RAMPS SHALL BE PROVIDED AT ALL CROSS WALK LOCATIONS AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS.

20. THE CONTRACTOR AT HIS/HER OWN EXPENSE SHALL BE REQUIRED TO RELOCATE ALL ROAD SIGNS AND THEIR FOUNDATIONS WHICH INTERFERE WITH HIS/HER CONSTRUCTION OPERATIONS AND TO TEMPORARILY RESET SUCH SIGNS DURING HIS CONSTRUCTION OPERATIONS.

21. THE CONTRACTOR SHALL BE REQUIRED TO CLEAN THE SURFACE OF EACH SUCCESSIVE NEW HOT-MIX ASPHALT COURSE PRIOR TO PLACEMENT OF THE NEXT HOT-MIX ASPHALT COURSE AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE CONSIDERED INCLUDED IN THE CONTRACT.

22. THE CONTRACTOR SHALL PLACE FRESH OIL WARNING SIGNS PRIOR TO PLACEMENT OF PRIME COAT AND COMMENCEMENT OF PAVING OPERATIONS OR AS DIRECTED BY THE ENGINEER. THIS WORK SHALL NOT BE A SEPARATE PAY ITEM, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT.

23. SAW CUTTING OF PAVEMENTS SHALL BE FULL DEPTH AND SHALL RESULT IN A CLEAN, STRAIGHT EDGE ON THE PORTION REMAINING. ALL SAW CUTTING SHALL BE CONSIDERED INCLUDED IN THE ITEM REMOVED.

24 ALL PARKWAYS DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE PROPERLY GRADED AND RECEIVE FOUR INCHES OF TOPSOIL AND SOD.

25. ONLY PRECAST ADJUSTMENT RINGS WILL BE ALLOWED FOR THE ADJUSTMENT OF CATCH BASINS, MANHOLES, VALVE VAULTS AND INLETS. NO MORE THAN 2 RINGS FOR A TOTAL ADJUSTMENT OF 8 INCH WILL BE ALLOWED.

26. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PAVEMENT OPENINGS, OPEN HOLES, EQUIPMENT AND RUBBLE LEFT IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL MAINTAIN HIGH VISIBILITY OF ALL TEMPORARY HAZARDS TO PEDESTRIANS AND MOTORISTS.

27. TRAFFIC CONDITIONS, ACCIDENTS AND OTHER UNFORSEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS AS DIRECTED BY THE ENGINEER WITHOUT DELAY.

28. THE CONTRACTOR SHALL BE REQUIRED TO MOVE ANY DECORATIVE BENCHES OR PAVE BRICKS THAT INTERFERE WITH CONSTRUCTION. UPON COMPLETION OF THE CONSTRUCTION, THE CONTRACTOR SHALL MOVE THESE ITEMS BACK TO THEIR ORIGINAL CONDITION. THIS WORK SHALL BE CONSIDERED INCIDENTAL AND SHALL BE INCLUDED IN THE CONTRACT.

29. THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, AREA FIELD ENGINEER AT 773-685-8386 AT LEAST TWO (2) WEEKS PRIOR TO PLACING OF PERMANENT MARKINGS.

30. THE CONTRACTOR SHALL CONSTRUCT CONCRETE MEDIAN TYPE SM-6, CONCRETE MEDIAN TYPE SM-6.12 AND COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.12 AT LOCATIONS SHOWN ON THE PLANS. THESE LOCATIONS ARE THE TYPICAL MID-BLOCK MEDIAN TREATMENT ADJACENT TO RAILROAD CROSSINGS. THE COST WILL BE INCIDENTAL TO THE CONSTRUCTION OF CONCRETE MEDIAN TYPE SB, SB-6.12 AND COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.12.

31. ALL THE BUILDING REMOVALS AND PARTIAL BUILDING REMOVALS WILL BE COMPLETED BY THE VILLAGE OF PALATINE PRIOR TO CONTRACTOR COMMENCING THE WORK.

32. IT IS THE CONTRACOR'S RESPONSIBILITY TO CONSTRUCT THE RAILROAD CROSSING SURFACES ON BOTH PALATINE ROAD AND PLUM GROVE ROAD. THE QUANTITIES FOR THIS WORK HAS BEEN INCLUDED AS A PART OF THE HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH) 14 ¼".

33. THE 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.

UNION PACIFIC RAILROAD CROSSINGS

GENERAL NOTES :

34 WORK WINDOWS, MONDAY - FRIDAY 9:00 AM - 3:30 PM
EXTENDED WORK WINDOWS ARE AVAILABLE ON WEEKENDS, SUBJECT TO APPROVAL OF THE LOCAL MANAGER.

35. CONTRACTOR'S RIGHT OF ENTRY PERMIT IS REQUIRED PRIOR TO BEGINNING ANY WORK.

36. RAILROAD FLAGGING PROTECTION IS REQUIRED FOR ALL WORK WITHIN 25 FT. OF THE NEAREST TRACK.
    - FLAGGING: CALL KANDICE @ (312) 496-4738

37. RAILROAD UTILITIES ARE NOT COVERED UNDER JULIE. CALL 72 HRS. IN ADVANCE FOR RAILROAD LOCATES.
    - RAILROAD UTILITY LOCATES: CALL KANDICE @ (312) 496-4738
    - FIBER OPTICS: CALL BEFORE YOU DIG @ (800) 336-9193

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

GENERAL NOTES

SCALE: VERT. N.T.S.
HORIZ. N.T.S.
DATE OCTOBER 19, 2009

DRAWN BY JPW
CHECKED BY BA

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	4

CONTRACT NO. 63083

STA. ____________ TO STA. ____________

FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	ROADWAY 100% FED- ARA	ROADWAY 80% FED- CMAQ 20% LOCAL	ROADWAY 70% FED- STP 30% LOCAL	TRAFFIC SIGNALS 80% FED- CMAQ 20% LOCAL	TRAFFIC SIGNALS INTERCONNECT 80% FED- CMAQ 20% LOCAL	LIGHTING 70% FED- STP 30% LOCAL	LOCAL LANDSCAPING 100% VILLAGE	LOCAL WATER MAIN 100% VILLAGE
				CONSTRUCTION TYPE CODE							
				1000-2A	1000-2A	1000-2A	Y031-1F	Y031-1F	Y030-1E	Y003	Y060
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	349			349					
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	590			590					
20101000	TEMPORARY FENCE	FOOT	200			200					
20101100	TREE TRUNK PROTECTION	EACH	31			31					
20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	15			15					
20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	16			16					
20200100	EARTH EXCAVATION	CU YD	14,052	14,052							
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	3,057	3,057							
20400800	FURNISHED EXCAVATION	CU YD	720	720							
20700420	POROUS GRANULAR EMBANKMENT, SUBGRADE	CUYD	2,110	2,110							
20800150	TRENCH BACKFILL	CU YD	8,322			7,732					590
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1,767			1,767					
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	21			21					
25000500	PHOSPHOROUS FERTILIZER NUTRIENT	POUND	21			21					
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	21			21					
25100630	EROSION CONTROL BLANKET	SQ YD	1,767			1,767					
25200110	SODDING, SALT TOLERANT	SQ YD	1,767			1,767					
25200200	SUPPLEMENTAL WATERING	UNIT	38			38					
28000510	INLET FILTERS	EACH	107			107					
28000600	SEEDING, CLASS 7	ACRE	0.2			0.2					
31101400	SUB-BASE GRANULAR MATERIAL, TYPE B, 6"	SQ YD	1,775	365						1,410	
35600712	HOT-MIX ASPHALT BASE COURSE WIDENING, 9"	SQ YD	219	219							
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	1,410	93	1,317						
40600300	AGGREGATE (PRIME COAT)	TON	57	4	53						
40600895	CONSTRUCTIING TEST STRIP	EACH	3			3					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	34	34							

* - DENOTES SPECIALTY ITEMS

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

SUMMARY OF QUANTITIES

SCALE: VERT. HORIZ.
DATE OCTOBER 19, 2009
DRAWN BY BA
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SQ-1

PLOT DATE = $DATE$
FILE NAME = $REQUEST$
PLOT SCALE = $SCALE$
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CONTRACT NO. 63083	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1285	02-00075-00-PV	COOK	161	5
	STA.		TO STA.		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	ROADWAY 100% FED- ARA	ROADWAY 80% FED- CMAQ 20% LOCAL	ROADWAY 70% FED- STP 30% LOCAL	TRAFFIC SIGNALS 80% FED- CMAQ 20% LOCAL	TRAFFIC SIGNALS INTERCONNECT 80% FED- CMAQ 20% LOCAL	LIGHTING 70% FED- STP 30% LOCAL	LOCAL LANDSCAPING 100% VILLAGE	LOCAL WATER MAIN 100% VILLAGE
				CONSTRUCTION TYPE CODE							
				1000-2A	1000-2A	1000-2A	Y031-1F	Y031-1F	Y030-1E	Y003	Y060
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	45	45							
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	515	515							
40603305	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	82	82							
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	125	125							
40701966	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 14 1/4"	SQ YD	25,937	9,125	16,812						
42001300	PROTECTIVE COAT	SQ YD	7,617			7,617					
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	472			472					
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	707			707					
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	36,914			36,914					
42400800	DETECTABLE WARNINGS	SQ FT	1,140			1,140					
44000100	PAVEMENT REMOVAL	SQ YD	21,816	21,816							
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	2,019			2,019					
44000300	CURB REMOVAL	FOOT	300			300					
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	9,491			9,491					
44000600	SIDEWALK REMOVAL	SQ FT	32,687			32,687					
44002211	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 2 3/4"	SQ YD	294	294							
44003100	MEDIAN REMOVAL	SQ FT	754			754					
44201811	CLASS D PATCHES, TYPE I, 14 INCH	SQ YD	135	135							
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	509	509							
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	154	154							
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	82	82							
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	175	175							
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	1,228	1,228							
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	448	448							
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	236	236							
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	520	520							

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REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

SUMMARY OF QUANTITIES

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	6
STA. _____	TO STA._____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	ROADWAY 100% FED- ARA	ROADWAY 80% FED- CMAQ 20% LOCAL	ROADWAY 70% FED- STP 30% LOCAL	TRAFFIC SIGNALS 80% FED- CMAQ 20% LOCAL	TRAFFIC SIGNALS INTERCONNECT 80% FED- CMAQ 20% LOCAL	LIGHTING 70% FED- STP 30% LOCAL	LOCAL LANDSCAPING 100% VILLAGE	LOCAL WATER MAIN 100% VILLAGE
				CONSTRUCTION TYPE CODE							
				I000-2A	I000-2A	I000-2A	Y031-1F	Y031-1F	Y030-1E	Y003	Y060
550A0430	STORM SEWERS, CLASS A, TYPE 2 30"	FOOT	164	164							
550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	323	323							
550A0470	STORM SEWERS, CLASS A, TYPE 2 42"	FOOT	1,439	1,439							
55039700	STORM SEWERS TO BE CLEANED	FOOT	500	500							
55100500	STORM SEWER REMOVAL 12"	FOOT	1,371	1,371							
55100900	STORM SEWER REMOVAL 18"	FOOT	996	996							
55101100	STORM SEWER REMOVAL 21"	FOOT	64	64							
55101600	STORM SEWER REMOVAL 36"	FOOT	1,944	1,944							
• 56103000	DUCTILE IRON WATER MAIN 6"	FOOT	20								20
• 56103100	DUCTILE IRON WATER MAIN 8"	FOOT	110								110
• 56200300	WATER SERVICE LINE 1"	FOOT	465								465
• 56201400	CORPORATION STOPS 1"	EACH	10								10
• 56300300	ADJUSTING WATER SERVICE LINES	FOOT	100								100
• 56400500	FIRE HYDRANTS TO BE REMOVED	EACH	12			11					1
• 56400820	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	12			11					1
60107700	PIPE UNDERDRAINS 6"	FOOT	1,290	1,290							
60201105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	61	61							
60204805	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	2	2							
60207905	CATCH BASINS, TYPE C, TYPE 11 FRAME AND GRATE	EACH	5	5							
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	11	11							
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	17	17							
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4	4							
60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5	5							
60248700	VALVE VAULTS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1								1
60248900	VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2								2
60250200	CATCH BASINS TO BE ADJUSTED	EACH	10	10							

• - DENOTES SPECIALTY ITEMS

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VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

SUMMARY OF QUANTITIES

SCALE: VERT.
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CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	7
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

	CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	ROADWAY 100% FED- ARA	ROADWAY 80% FED- CMAQ 20% LOCAL	ROADWAY 70% FED- STP 30% LOCAL	TRAFFIC SIGNALS 80% FED- CMAQ 20% LOCAL	TRAFFIC SIGNALS INTERCONNECT 80% FED- CMAQ 20% LOCAL	LIGHTING 70% FED- STP 30% LOCAL	LOCAL LANDSCAPING 100% VILLAGE	LOCAL WATER MAIN 100% VILLAGE
					CONSTRUCTION TYPE CODE							
					I000-2A	I000-2A	I000-2A	Y031-1F	Y031-1F	Y030-1E	Y003	Y060
	60255500	MANHOLES TO BE ADJUSTED	EACH	6	6							
	60260050	SANITARY MANHOLES TO BE RECONSTRUCTED	EACH	3			3					
	60260100	INLETS TO BE ADJUSTED	EACH	1	1							
•	60265700	VALVE VAULTS TO BE ADJUSTED	EACH	5								5
•	60266500	VALVE VAULTS TO BE REMOVED	EACH	3								3
	60500040	REMOVING MANHOLES	EACH	21	21							
	60500050	REMOVING CATCH BASINS	EACH	17	17							
	60500060	REMOVING INLETS	EACH	19	19							
	60600605	CONCRETE CURB, TYPE B	FOOT	571	571							
	60601005	CONCRETE CURB, TYPE B (SPECIAL)	FOOT	1,252	1,252							
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	8,807	3,098	5,709						
	60618800	CONCRETE MEDIAN, TYPE SB	SQ FT	3,546	3,546							
	60619600	CONCRETE MEDIAN, TYPE SB-6.12	SQ FT	3,088	3,088							
#	63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	55	55							
•	66900105	UNDERGROUND STORAGE TANK REMOVAL	EACH	3			3					
•	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	1,721			1,721					
•	66900400	SPECIAL WASTE GROUNDWATER DISPOSAL	GAL	4,290			4,290					
•	66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1			1					
•	66900530	SOIL DISPOSAL ANALYSIS	EACH	3			3					
•	66901000	BACKFILL PLUGS	CU YD	45			45					
	67000400	ENGINEER'S FIELD OFFICE TYPE A	CAL MO	18			18					
	67100100	MOBILIZATION	L SUM	1			1					
	70101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1			1					
	70101900	TRAFFIC CONTROL AND PROTECTION (DETOUR 1)	L SUM	1			1					
	70102000	TRAFFIC CONTROL AND PROTECTION (DETOUR 2)	L SUM	1			1					
	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	548			548					

• - DENOTES SPECIALTY ITEMS

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

SUMMARY OF QUANTITIES

SCALE: VERT.
HORIZ.
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CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	8
STA. ----------	TO STA. ----------			
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

	CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	ROADWAY 100% FED- ARA	ROADWAY 80% FED- CMAQ 20% LOCAL	ROADWAY 70% FED- STP 30% LOCAL	TRAFFIC SIGNALS 80% FED- CMAQ 20% LOCAL	TRAFFIC SIGNALS INTERCONNECT 80% FED- CMAQ 20% LOCAL	LIGHTING 70% FED- STP 30% LOCAL	LOCAL LANDSCAPING 100% VILLAGE	LOCAL WATER MAIN 100% VILLAGE
					CONSTRUCTION TYPE CODE							
					I000-2A	I000-2A	I000-2A	Y031-1F	Y031-1F	Y030-1E	Y003	Y060
	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	18			18					
	70300500	PAVEMENT MARKING TAPE, TYPE III	FOOT	8,325			8,325					
•	72000100	SIGN PANEL - TYPE 1	SQ FT	427			340	87				
•	72900100	METAL POST - TYPE A	FOOT	1,050			1,050					
•	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1,271			1,271					
•	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	11,156			11,156					
•	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	5,398			5,398					
•	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	207			207					
•	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	574			574					
•	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	295			295					
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	8,000			8,000					
•	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	60			60					
•	80400100	ELECTRIC SERVICE INSTALLATION	EACH	2						2		
•	80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1						1		
•	81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	1,341				983	358			
•	81000700	CONDUIT IN TRENCH, 2 1/2 " DIA., GALVANIZED STEEL	FOOT	111				78		33		
•	81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	171				171				
•	81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	901				10		891		
•	81001100	CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL	FOOT	10				10				
•	81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	592				445	147			
•	81018700	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	157				157				
•	81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	1,759				701		1,058		
•	81400100	HANDHOLE	EACH	14				14				
•	81400200	HEAVY-DUTY HANDHOLE	EACH	4				4				
•	81400300	DOUBLE HANDHOLE	EACH	4				4				
•	81701345	ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE USE) 3-1/C NO. 3/0	FOOT	93						93		

• - DENOTES SPECIALTY ITEMS

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE

PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION

SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

SUMMARY OF QUANTITIES

SCALE: VERT. HORIZ. DRAWN BY BA

DATE OCTOBER 19, 2009 CHECKED BY

SQ-5

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CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	9
STA. ----------	TO STA. ----------			
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

	CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	ROADWAY 100% FED- ARA	ROADWAY 80% FED- CMAQ 20% LOCAL	ROADWAY 70% FED- STP 30% LOCAL	TRAFFIC SIGNALS 80% FED- CMAQ 20% LOCAL	TRAFFIC SIGNALS INTERCONNECT 80% FED- CMAQ 20% LOCAL	LIGHTING 70% FED- STP 30% LOCAL	LOCAL LANDSCAPING 100% VILLAGE	LOCAL WATER MAIN 100% VILLAGE
					CONSTRUCTION TYPE CODE							
					I000-2A	I000-2A	I000-2A	Y031-1F	Y031-1F	Y030-1E	Y003	Y060
•	81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	7,336				1,254	358	5,724		
•	83600300	LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	494						494		
•	84200500	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	39						39		
•	84200804	REMOVAL OF POLE FOUNDATION	EACH	39						39		
•	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1				1				
•	85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1				1				
•	85700305	FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1				1				
•	86000105	MASTER CONTROLLER (SPECIAL)	EACH	1					1			
•	86400100	TRANSCEIVER - FIBER OPTIC	EACH	3				3				
•	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,212				1,212				
•	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	3,661				3,661				
•	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,974				2,974				
•	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2,771				2,771				
•	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	4,294				4,294				
•	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	202				202				
•	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2				2				
•	87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1				1				
•	87700230	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1				1				
•	87700250	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1				1				
•	87700260	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1				1				
•	87700280	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	2				2				
•	87700300	STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1				1				
•	87700320	STEEL MAST ARM ASSEMBLY AND POLE, 55 FT.	EACH	1				1				
•	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	12				12				
•	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	8				8				
•	87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	104				104				

• - DENOTES SPECIALTY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE

PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

SUMMARY OF QUANTITIES

SCALE: VERT.
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CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	10
STA. ----------	TO STA. ----------			
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

	CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	ROADWAY 100% FED- ARA	ROADWAY 80% FED- CMAQ 20% LOCAL	ROADWAY 70% FED- STP 30% LOCAL	TRAFFIC SIGNALS 80% FED- CMAQ 20% LOCAL	TRAFFIC SIGNALS INTERCONNECT 80% FED- CMAQ 20% LOCAL	LIGHTING 70% FED- STP 30% LOCAL	LOCAL LANDSCAPING 100% VILLAGE	LOCAL WATER MAIN 100% VILLAGE
					CONSTRUCTION TYPE CODE							
					I000-2A	I000-2A	I000-2A	Y031-1F	Y031-1F	Y030-1E	Y003	Y060
•	87900200	DRILL EXISTING HANDHOLE	EACH	3				2	1			
•	88030020	SIGNAL HEAD ,LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	12				12				
•	88030050	SIGNAL HEAD ,LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1				1				
•	88030100	SIGNAL HEAD ,LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	5				5				
•	88030110	SIGNAL HEAD ,LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	8				8				
•	88030220	SIGNAL HEAD ,LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1				1				
•	88030240	SIGNAL HEAD ,LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1				1				
•	88102740	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED	EACH	4				4				
•	88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4				4				
•	88200100	TRAFFIC SIGNAL BACKPLATE	EACH	20				20				
•	88500100	INDUCTIVE LOOP DETECTOR	EACH	24				24				
•	88600100	DETECTOR LOOP, TYPE I	FOOT	4,386				4,386				
•	88700200	LIGHT DETECTOR	EACH	4							4	
•	88700300	LIGHT DETECTOR AMPLIFIER	EACH	2							2	
•	88800100	PEDESTRIAN PUSH-BUTTON	EACH	8				8				
•	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2				2				
•	89501150	RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	1				1				
•	89502300	REMOVE ELECTRICAL CABLE FROM CONDUIT	FOOT	915				721	194			
•	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2				2				
•	89502380	REMOVE EXISTING HANDHOLE	EACH	30				30				
•	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	20				20				
	X0301828	ENGINEERED BARRIER	SQ YD	1,239			1,239					
	X0322033	STORM SEWER (WATER MAIN REQUIOREMENTS) 12 INCH	FOOT	12	12							
	X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	690			690					
•	X0322925	ELECTRICAL CABLE IN CONDUIT, TRACER, NO. 14 1 C	FOOT	1,461					1,461			
	X0323426	SEDIMENT CONTROL, DRAINAGE STRUCTURE INLET FILTER CLEANING	EACH	107			107					

• - DENOTES SPECIALTY ITEMS

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

SUMMARY OF QUANTITIES

SCALE: VERT.
HORIZ.
DATE OCTOBER 19, 2009

DRAWN BY BA
CHECKED BY

SQ-7

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CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	11
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

	CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	ROADWAY 100% FED- ARA	ROADWAY 80% FED- CMAQ 20% LOCAL	ROADWAY 70% FED- STP 30% LOCAL	TRAFFIC SIGNALS 80% FED- CMAQ 20% LOCAL	TRAFFIC SIGNALS INTERCONNECT 80% FED- CMAQ 20% LOCAL	LIGHTING 70% FED- STP 30% LOCAL	LOCAL LANDSCAPING 100% VILLAGE	LOCAL WATER MAIN 100% VILLAGE
					CONSTRUCTION TYPE CODE							
					I000-2A	I000-2A	I000-2A	Y031-1F	Y031-1F	Y030-1E	Y003	Y060
•	X0323574	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	18						18		
	X0323973	SEDIMENT CONTROL, SILT FENCE	FOOT	10,097			10,097					
	X0323974	SEDIMENT CONTROL, SILT FENCE MAINTENANCE	FOOT	3,100			3,100					
•	X0324007	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1					1			
	X0325239	TEMPORARY PAVEMENT 10"	SQ YD	770			770					
•	X0325775	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4 INCH	FOOT	4,230			4,230					
•	X0325837	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 6 INCH	FOOT	9,500			9,500					
•	X0325842	WET REFLECTIVE TEMPORARY TAPE, TYPE III, LETTERS AND SYMBOLS	SQ FT	800			800					
	X4067712	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N70	TON	44	44							
	X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	25			25					
	X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	23			23					
•	X8050010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1				1				
•	X8050015	SERVICE INSTALLATION - POLE MOUNTED	EACH	1				1				
•	X8620020	UNINTERRUPTABLE POWER SUPPLY	EACH	2				2				
•	X8710020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	1,461					1,461			
•	X8730027	ELECTRIC CABLE IN CONDUIT, GROUND, NO. 6 1C	FOOT	2,055				2,055				
•	X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	1,161				1,161				
•	XX002264	ELECTRIC CABLE IN CONDUIT, RAILROAD, NO. 14 3C	FOOT	1,116				1,116				
•	XX002982	GATE VALVES, 6"	EACH	1								1
•	XX002985	TEMPORARY CAP	EACH	3								3
•	XX003526	DUCTILE IRON WATER MAIN FITTING - 8"X6" REDUCER	EACH	2								2
	Z0034210	MECHANICALLY STABILIZED EARTH RETAINING WALL	SQ FT	222			222					
•	XX005778	DUCTILE IRON WATER MAIN FITTINGS - 45 BEND 8"	EACH	4								4
	Z0001050	AGGREGATE SUBGRADE 12"	SQ YD	30,334	10,654	19,628				52		
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1			1					
	Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	5	5							

• - DENOTES SPECIALTY ITEMS

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

SUMMARY OF QUANTITIES

SCALE: VERT.
HORIZ.
DATE OCTOBER 19, 2009

DRAWN BY BA
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CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	12
STA. ----------	TO STA. ----------			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

	CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	ROADWAY 100% FED- ARA	ROADWAY 80% FED- CMAQ 20% LOCAL	ROADWAY 70% FED- STP 30% LOCAL	TRAFFIC SIGNALS 80% FED- CMAQ 20% LOCAL	TRAFFIC SIGNALS INTERCONNECT 80% FED- CMAQ 20% LOCAL	LIGHTING 70% FED- STP 30% LOCAL	LOCAL LANDSCAPING 100% VILLAGE	LOCAL WATER MAIN 100% VILLAGE
					CONSTRUCTION TYPE CODE							
					I000-2A	I000-2A	I000-2A	Y031-1F	Y031-1F	Y030-1E	Y003	Y060
*	Z0044800	PRESSURE CONNECTION 8" X 8"	EACH	1								1
	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1				1				
	Z0053700	RESETTING SURVEY MONUMENTS	EACH	1	1							
△	Z0076600	TRAINEES	HOUR	2,500			2,500					
	LR430040	PAVING BRICK SIDEWALK	SQ YD	975							975	
•	X0326901	TRANSITION SLEEVE, 6"	EACH	1								1
•	Z0044895	PRESSURE CONNECTION 10" X 8"	EACH	3								3
•	X0326925	WATERMAIN TO BE ABANDONED, 6"	FOOT	726								726
•	X8160430	UNIT DUCT, WITH, 5-1/C NO. 4, 1/C NO. 6 GROUND, 600V (EPR-TYPE RHW), 1 1/2" DIA., POLYETHYLENE	FOOT	6,977						6,977		
•	XX008367	DECORATIVE LIGHTING UNIT, TYPE "D1"	EACH	37							37	
*	XX008368	DECORATIVE LIGHTING UNIT, TYPE "D2"	EACH	14							14	
*	XX008369	DECORATIVE LIGHTING UNIT, TYPE "D3"	EACH	1							1	
*	82500505	LIGHTING CONTROLLER, SPECIAL	EACH	2						2		
	XX008364	STORM SEWER LINING, 36" DIAMETER	FOOT	147	147							
	XX008365	STORM SEWER LINING, 15" DIAMETER	FOOT	95	95							
	XX008366	MANHOLE TYPE A, 6' DIAMETER TYPE 1 FRAME, CLOSED LID, FLAT SLAB TOP	EACH	1	1							
*	X0326270	RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE V CABINET (SPECIAL)	EACH	1				1				
*	X0325737	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	3				3				

• - DENOTES SPECIALTY ITEMS

△ - Y080

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE

PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

SUMMARY OF QUANTITIES

SCALE: VERT.
HORIZ.

DATE OCTOBER 19, 2009

DRAWN BY BA

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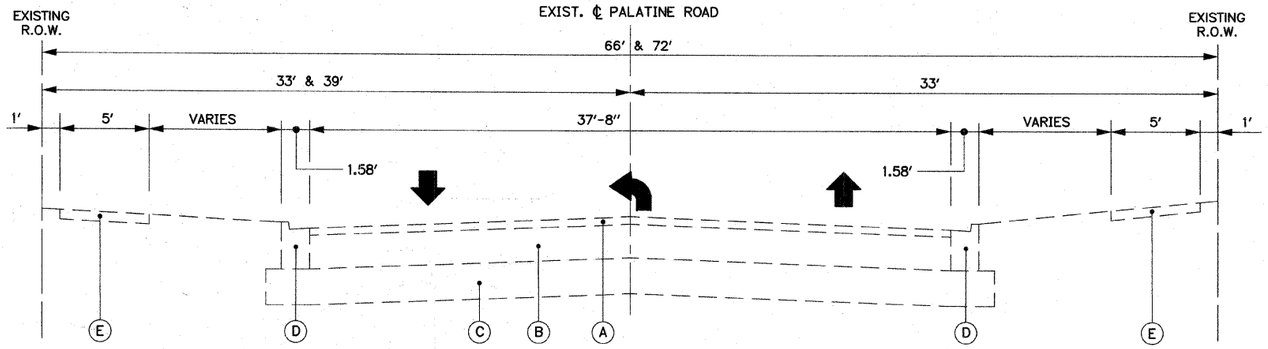
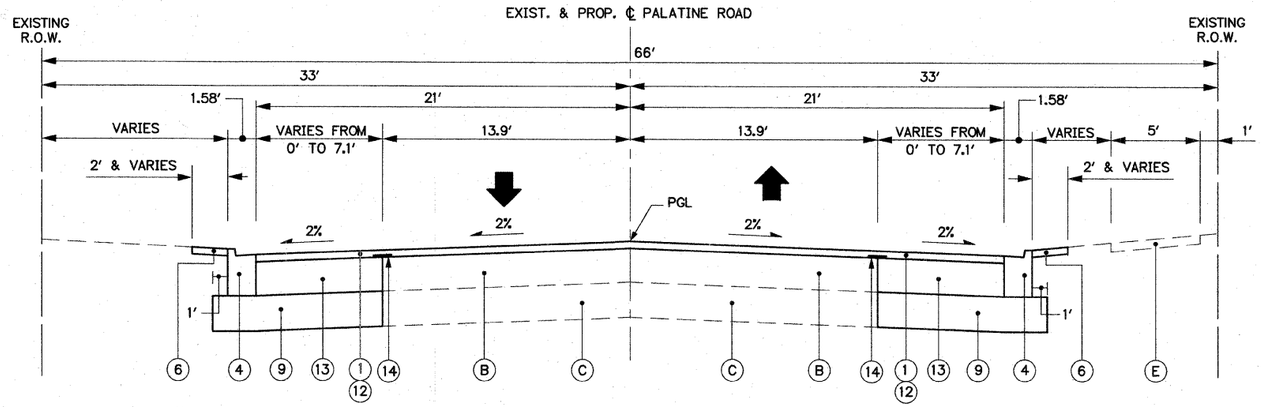


NOTE 1:

HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4"
(FROM STA. 202+83.31 TO STA. 205+59.25)

EXISTING TYPICAL SECTION

STA. 202+83.31 TO STA. 208+85.00



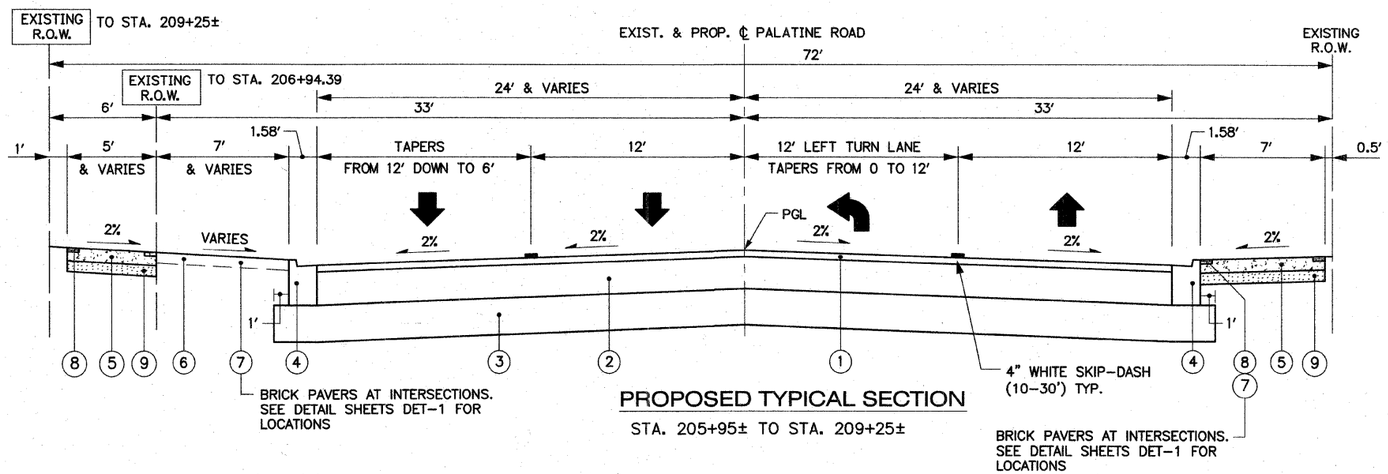
NOTE:

PAVEMENT PATCHING CLASS D AT LOCATIONS AS DIRECTED BY THE ENGINEER.

WIDENING AND RESURFACING TYPICAL SECTION

SMITH STREET TO GREELEY STREET

STA. 202+83.31 TO STA. 205+59.25



PROPOSED TYPICAL SECTION

STA. 205+95± TO STA. 209+25±

LEGEND

PROPOSED SECTION

** (1) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5mm), 2"

** (2) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90. 12 1/4"

(3) AGGREGATE SUBGRADE, 12"

(4) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12

(5) PORTLAND CEMENT CONCRETE SIDEWALK, 5" (LOCATIONS SHOWN ON PLANS)

(6) TOPSOIL, FURNISH AND PLACE 4" WITH SODDING SALT TOLERANT

(7) BRICK PAVERS

(8) SIDEWALK BRICK PAVERS SHOWN ON BOTH SIDES OF SIDEWALK ON NORTHSIDE AND SOUTHSIDE OF PALATINE ROAD

(9) SUB-BASE GRANULAR MATERIAL, TYPE B, 6"

(10) CONCRETE MEDIAN, TYPE SB-6.12

(11) CONCRETE MEDIAN, TYPE SB

(12) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N70. 3/4"

(13) HOT-MIX ASPHALT BASE COURSE WIDENING (IL-19mm), 9"

(14) STRIP REFLECTIVE CRACK CONTROL TREATMENT

EXISTING SECTION

(A) BITUMINOUS SURFACE,1" TO 3.5", TO BE REMOVED

(B) CONCRETE BASE COURSE, 7" TO 9", TO BE REMOVED

(C) GRANULAR SUB-BASE, 4" TO 6", TO BE REMOVED

(D) COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.12, TO BE REMOVED

(E) SIDEWALK TO BE REMAIN FROM SMITH TO GREELEY AND REMOVED FROM GREELEY GOING EAST. SEE PLAN AND PROFILE SHEETS FOR LOCATIONS.

** PAID AS HOT-MIX ASPHALT PAVEMENT 14 1/4" (FULL-DEPTH)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	% AIR VOIDS
FULL DEPTH PAVEMENT	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5 mm), 2"	4% @ 90 Gyr
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 12 1/4"	4% @ 90 Gyr
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 2"	4% @ 50 Gyr
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 12 1/4"	4% @ 50 Gyr
PAVEMENT WIDENING	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5 mm), 2"	4% @ 90 Gyr
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N70, 3/4"	4% @ 70 Gyr
HOT-MIX ASPHALT BASE COURSE WIDENING (IL-19mm), 9"	4% @ 50 Gyr
TEMPORARY PAVEMENT	
TEMPORARY PAVEMENT (HOT-MIX ASPHALT BINDER IL-19mm), 10"	4% @ 50 Gyr
PATCHING	
CLASS D PATCHES, TYPE I, 9" (HOT-MIX ASPHALT BINDER IL-19mm)	4% @ 70 Gyr
HOT-MIX ASPHALT REPLACEMENT OVER PATCHES (HOT-MIX ASPHALT BINDER IL-19mm)	4% @ 70 Gyr

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE COURSE MIXTURES IS 112 LBS/SQ.YD./IN AND 115 LBS/SQ.YD./IN FOR BINDER COURSE.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22", UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

NOTE 2:

THE CONTRACTOR SHALL CONSTRUCT MIN. 6" SUB-BASE GRANULAR MATERIALS, TYPE B UNDER THE BRICK PAVERS AT INTERSECTIONS AND CONCRETE SIDEWALK WITH BRICK PAVERS ALONG THE EDGE ON BOTH SIDES. SEE SHEETS DET-1 & DET-2 FOR DETAILS AND LOCATIONS.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	13
STA. _____	TO STA._____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE

PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

TYPICAL SECTIONS SMITH ST. TO BROCKWAY ST.

SCALE: VERT. N.T.S.
HORIZ. N.T.S.

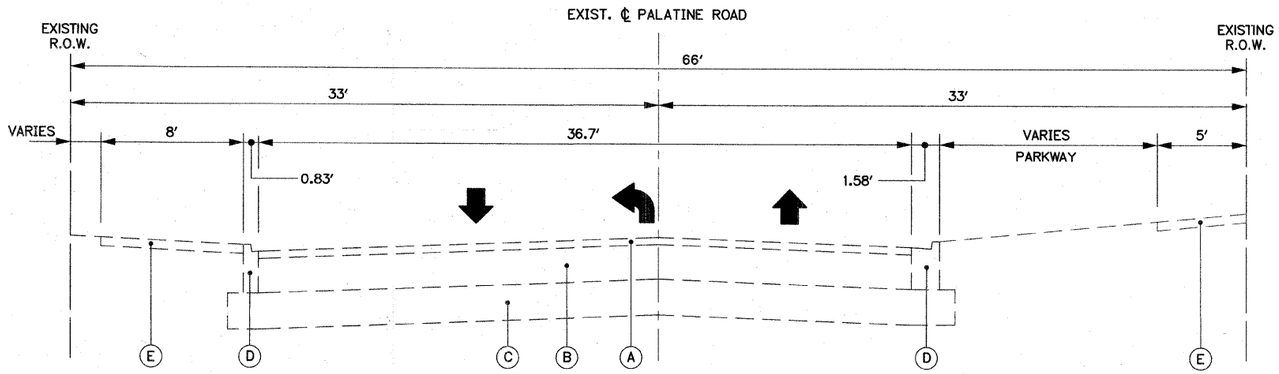
DRAWN BY JPW

DATE OCTOBER 19, 2009

CHECKED BY BA

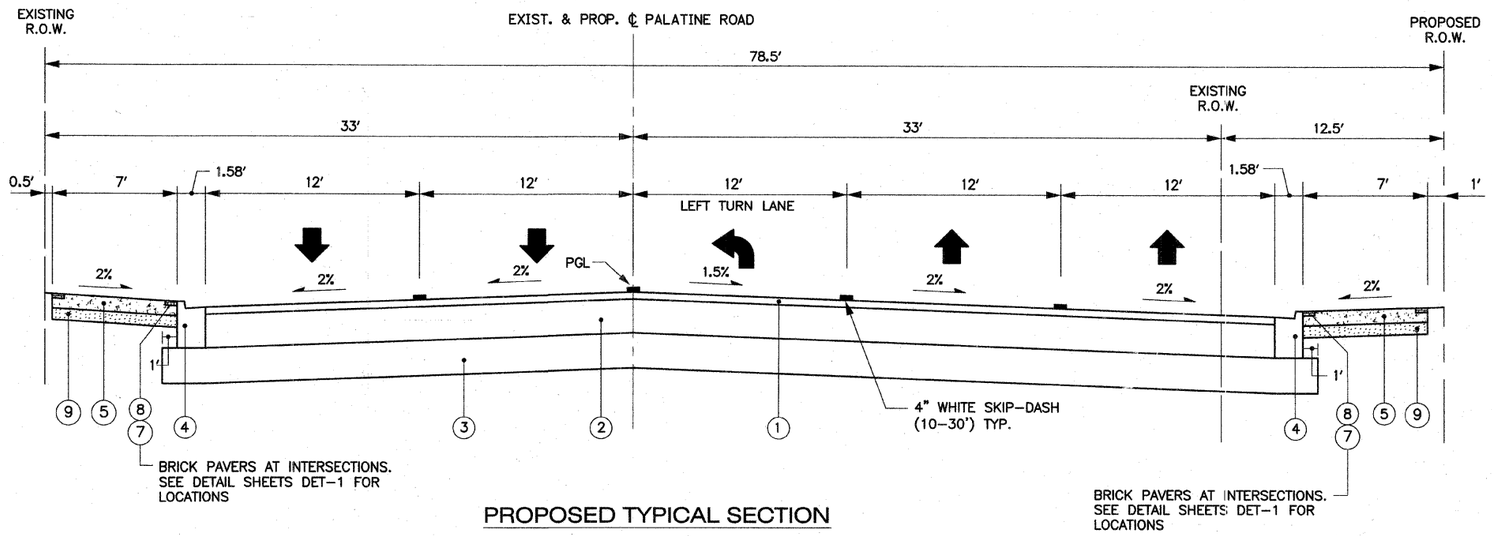
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	14
STA. _____	TO STA._____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083



EXISTING TYPICAL SECTION

STA. 209+25± TO STA. 212+55±



PROPOSED TYPICAL SECTION

STA. 209+25± TO STA. 212+55±

PALATINE ROAD

STRUCTURAL DESIGN FACTOR: YEAR 2030

PV = 26,320 SU = 1,120 MU = 560

ROAD/STREET CLASSIFICATION: CLASS I

PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:

P = 94 S = 4 M = 2

TRAFFIC FACTOR: ACTUAL TF = 3.10 AC TYPE = PG 64-22

MINIMUM TF = 0.5

AC GRADE: BINDER = PG 64-22 SURFACE = PG 64-22

SUBGRADE SUPPORT RATING:
SSR = POOR
IBR = 2.0

NOTE:

THE CONTRACTOR SHALL CONSTRUCT MIN. 6" SUB-BASE GRANULAR MATERIALS, TYPE B UNDER THE BRICK PAVERS AT INTERSECTIONS AND CONCRETE SIDEWALK WITH BRICK PAVERS ALONG THE EDGE ON BOTH SIDES. SEE SHEETS DET-1 & DET-2 FOR DETAILS AND LOCATIONS.

LEGEND

EXISTING SECTION

(A) BITUMINOUS SURFACE,1" TO 3.5", TO BE REMOVED

(B) CONCRETE BASE COURSE, 7" TO 9", TO BE REMOVED

(C) GRANULAR SUB-BASE, 4" TO 6", TO BE REMOVED

(D) COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.12, TO BE REMOVED

(E) SIDEWALK TO BE REMOVED ON BOTH SIDES OF PALATINE ROAD FROM BROCKWAY STREET TO BOTHWELL STREET. SEE PLAN AND PROFILE SHEETS FOR LOCATIONS.

PROPOSED SECTION

** (1) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5mm), 2"

** (2) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90. 12 1/4"

(3) AGGREGATE SUBGRADE, 12"

(4) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12

(5) PORTLAND CEMENT CONCRETE SIDEWALK, 5" (LOCATIONS SHOWN ON PLANS)

(6) TOPSOIL, FURNISH AND PLACE 4" WITH SODDING SALT TOLERANT

(7) BRICK PAVERS

(8) SIDEWALK BRICK PAVERS SHOWN ON BOTH SIDES OF SIDEWALK ON NORTHSIDE AND SOUTHSIDE OF PALATINE ROAD

(9) SUB-BASE GRANULAR MATERIAL, TYPE B, 6"

(10) CONCRETE MEDIAN, TYPE SB-6.12

(11) CONCRETE MEDIAN, TYPE SB

** PAID AS HOT-MIX ASPHALT PAVEMENT 14 1/4" (FULL-DEPTH)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE

PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

TYPICAL SECTIONS
BROCKWAY ST. TO BOTHWELL ST.

SCALE: VERT. N.T.S. HORIZ. N.T.S.

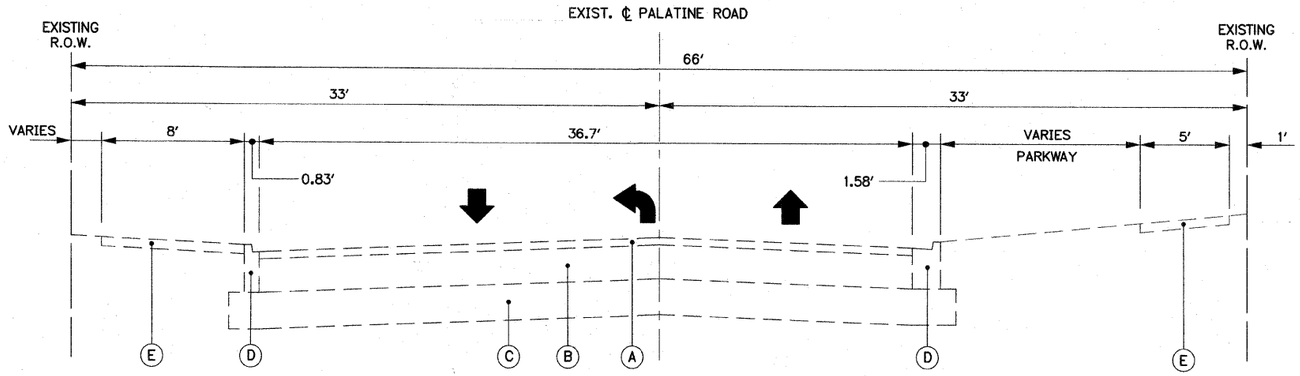
DRAWN BY J.P.W.

DATE OCTOBER 19, 2009

CHECKED BY BA

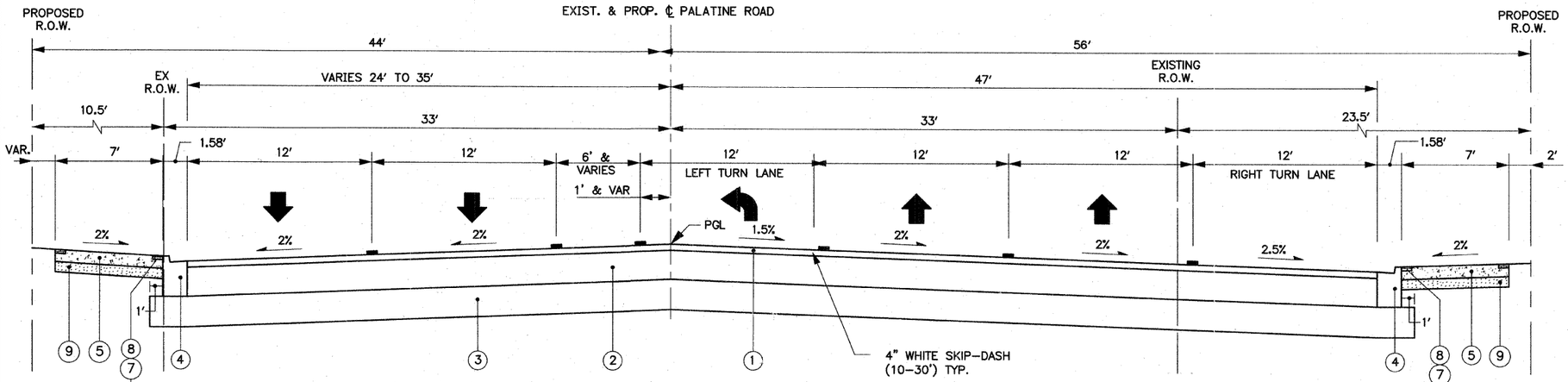
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	15
STA. _____		TO STA._____		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083



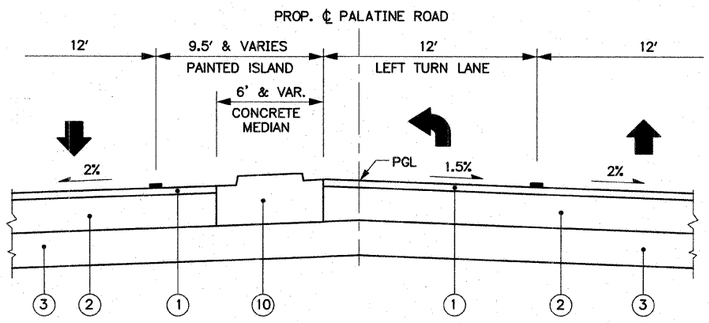
EXISTING TYPICAL SECTION

STA. 212+55± TO STA. 215+90±



PROPOSED TYPICAL SECTION

STA. 212+55± TO STA. 215+90±



PROPOSED TYPICAL SECTION

(SHOWING CONCRETE MEDIAN)

STA. 212+55± TO STA. 215+90±

LEGEND

EXISTING SECTION

(A) BITUMINOUS SURFACE,1" TO 3.5", TO BE REMOVED

(B) CONCRETE BASE COURSE, 7" TO 9", TO BE REMOVED

(C) GRANULAR SUB-BASE, 4" TO 6", TO BE REMOVED

(D) COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.12, TO BE REMOVED

(E) SIDEWALK TO BE REMOVED ON BOTH SIDES OF PALATINE ROAD FROM BOTHWELL STREET TO PLUM GROVE ROAD. SEE PLAN AND PROFILE SHEETS FOR LOCATIONS.

PROPOSED SECTION

** (1) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5mm), 2"

** (2) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90. 12 1/4"

(3) AGGREGATE SUBGRADE, 12"

(4) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12

(5) PORTLAND CEMENT CONCRETE SIDEWALK, 5" (LOCATIONS SHOWN ON PLANS)

(6) TOPSOIL, FURNISH AND PLACE 4" WITH SODDING SALT TOLERANT

(7) BRICK PAVERS

(8) SIDEWALK BRICK PAVERS SHOWN ON BOTH SIDES OF SIDEWALK ON NORTHSIDE AND SOUTHSIDE OF PALATINE ROAD

(9) SUB-BASE GRANULAR MATERIAL, TYPE B, 6"

(10) CONCRETE MEDIAN, TYPE SB-6.12

(11) CONCRETE MEDIAN, TYPE C-4

** PAID AS HOT-MIX ASPHALT PAVEMENT 14 1/4" (FULL-DEPTH)

NOTE:

THE CONTRACTOR SHALL CONSTRUCT MIN. 6" SUB-BASE GRANULAR MATERIALS, TYPE B UNDER THE BRICK PAVERS AT INTERSECTIONS AND CONCRETE SIDEWALK WITH BRICK PAVERS ALONG THE EDGE ON BOTH SIDES. SEE SHEETS DET-1 & DET-2 FOR DETAILS AND LOCATIONS.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE

PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION

SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

TYPICAL SECTIONS BOTHWELL ST. TO PLUM GROVE RD.

SCALE: VERT. N.T.S. HORIZ. N.T.S.

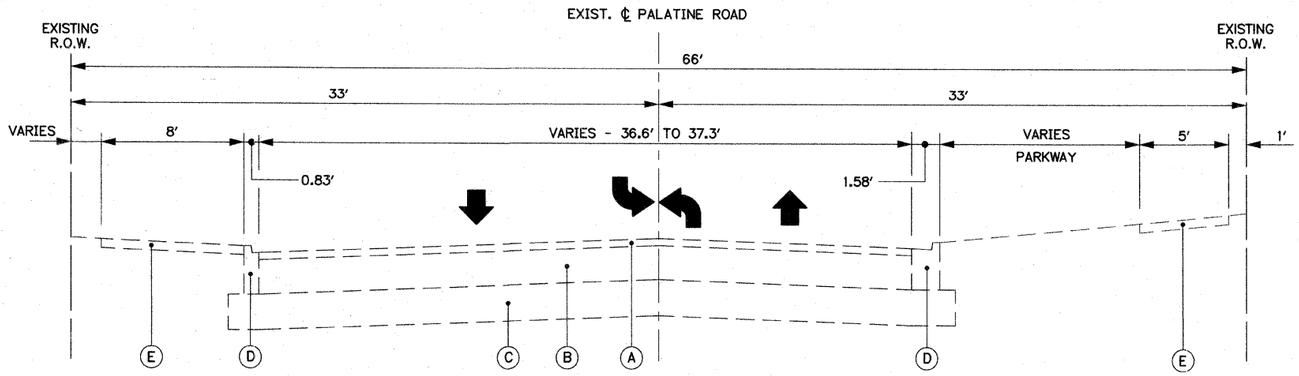
DATE OCTOBER 19, 2009

DRAWN BY J.P.W.

CHECKED BY BA

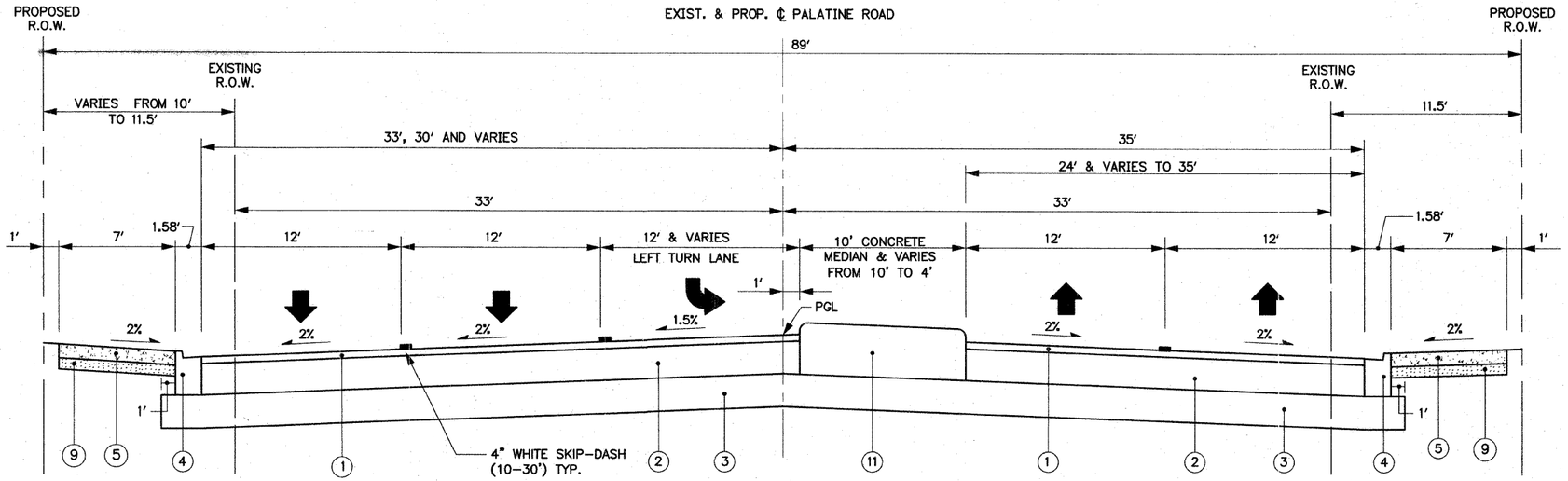
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	16
STA. _____	TO STA._____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083



EXISTING TYPICAL SECTION

STA. 215+90± TO STA. 222+45±



PROPOSED TYPICAL SECTION

STA. 215+90± TO STA. 222+45±

LEGEND

EXISTING SECTION

(A) BITUMINOUS SURFACE,1" TO 3.5", TO BE REMOVED

(B) CONCRETE BASE COURSE, 7" TO 9", TO BE REMOVED

(C) GRANULAR SUB-BASE, 4" TO 6", TO BE REMOVED

(D) COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.12, TO BE REMOVED

(E) SIDEWALK TO BE REMOVED ON BOTH SIDES OF PALATINE ROAD FROM PLUM GROVE ROAD TO BENTON STREET. SEE PLAN AND PROFILE SHEETS FOR LOCATIONS.

PROPOSED SECTION

** (1) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5mm), 2"

** (2) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90. 12 1/4"

(3) AGGREGATE SUBGRADE, 12"

(4) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12

(5) PORTLAND CEMENT CONCRETE SIDEWALK, 5" (LOCATIONS SHOWN ON PLANS)

(6) TOPSOIL, FURNISH AND PLACE 4" WITH SODDING SALT TOLERANT

(7) BRICK PAVERS

(8) SIDEWALK BRICK PAVERS SHOWN ON BOTH SIDES OF SIDEWALK ON NORTHSIDE AND SOUTHSIDE OF PALATINE ROAD

(9) SUB-BASE GRANULAR MATERIAL, TYPE B, 6"

(10) CONCRETE MEDIAN, TYPE SB-6.12

(11) CONCRETE MEDIAN, TYPE SB

** PAID AS HOT-MIX ASPHALT PAVEMENT 14 1/4" (FULL-DEPTH)

NOTE:

THE CONTRACTOR SHALL CONSTRUCT MIN. 6" SUB-BASE GRANULAR MATERIALS, TYPE B UNDER THE BRICK PAVERS AT INTERSECTIONS AND CONCRETE SIDEWALK WITH BRICK PAVERS ALONG THE EDGE ON BOTH SIDES. SEE SHEETS DET-1 & DET-2 FOR DETAILS AND LOCATIONS.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE

PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

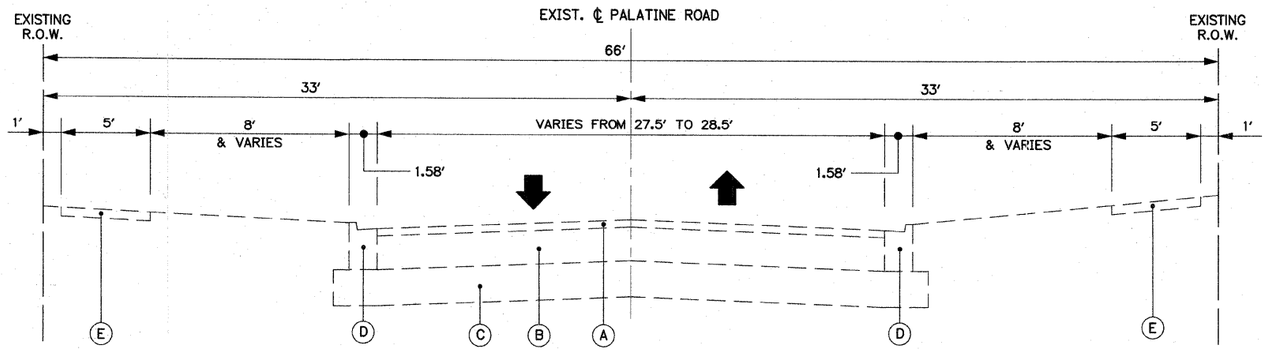
TYPICAL SECTIONS
PLUM GROVE RD. TO BENTON ST.

SCALE: VERT. N.T.S. HORIZ. N.T.S.
DATE OCTOBER 19, 2009

DRAWN BY J.P.W.
CHECKED BY BA

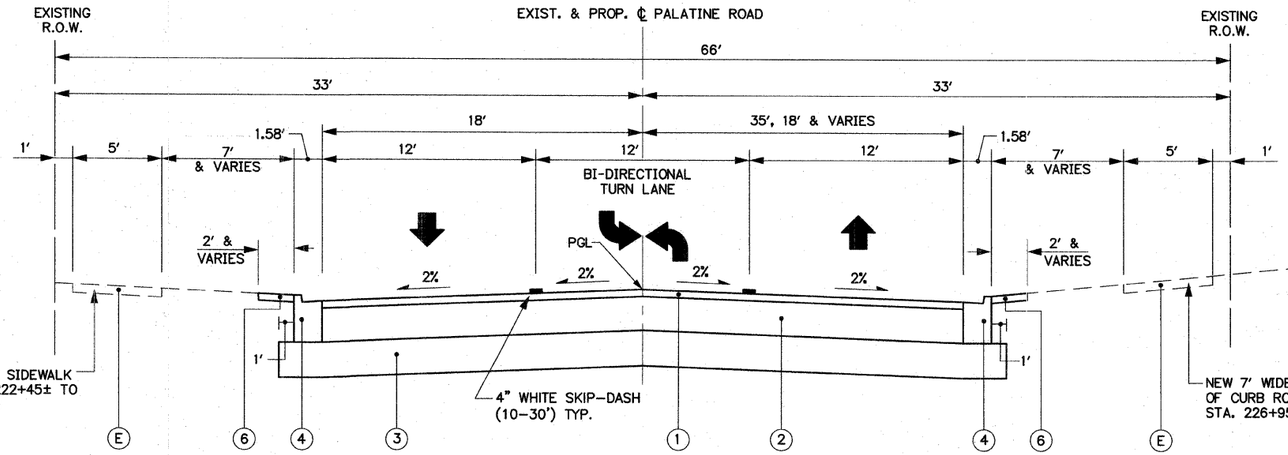
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	17
STA. _____		TO STA._____		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083



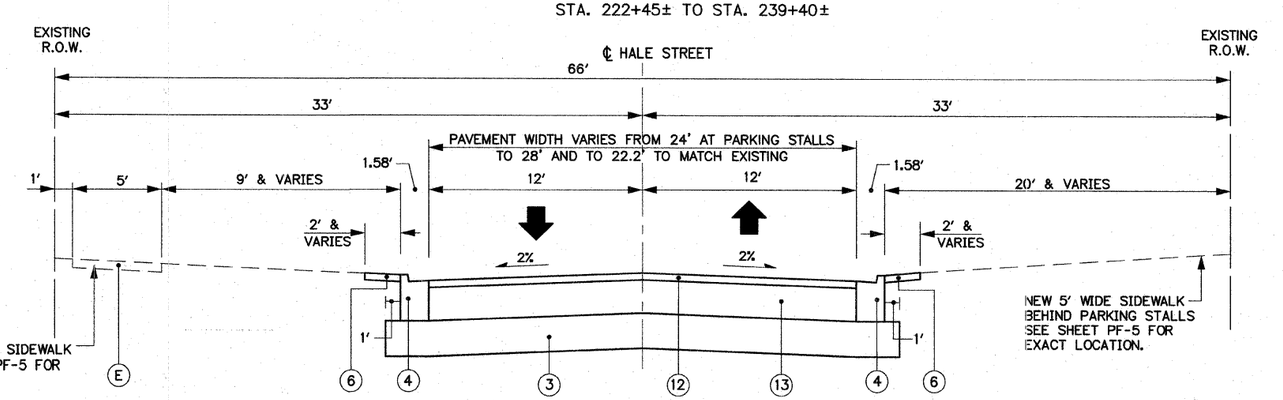
EXISTING TYPICAL SECTION

STA. 222+45± TO STA. 239+40±



PROPOSED TYPICAL SECTION

STA. 222+45± TO STA. 239+40±



HALE STREET
PROPOSED TYPICAL SECTION

LEGEND

EXISTING SECTION

(A) BITUMINOUS SURFACE,1" TO 3.5", TO BE REMOVED

(B) CONCRETE BASE COURSE, 7" TO 9", TO BE REMOVED

(C) GRANULAR SUB-BASE, 4" TO 6", TO BE REMOVED

(D) COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.12, TO BE REMOVED

(E) SIDEWALK TO BE REMOVED ON SOUTHSIDE OF PALATINE ROAD FROM BENTON STREET TO STA. 226+95.6. SEE PLAN AND PROFILE SHEETS FOR MORE INFORMATION.

PROPOSED SECTION

** (1) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5mm), 2"

** (2) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90. 12 1/4"

(3) AGGREGATE SUBGRADE, 12"

(4) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12

(5) PORTLAND CEMENT CONCRETE SIDEWALK, 5" (LOCATIONS SHOWN ON PLANS)

(6) TOPSOIL, FURNISH AND PLACE 4" WITH SODDING SALT TOLERANT

(7) BRICK PAVERS

(8) SIDEWALK BRICK PAVERS SHOWN ON BOTH SIDES OF SIDEWALK ON NORTHSIDE AND SOUTHSIDE OF PALATINE ROAD

(9) SUB-BASE GRANULAR MATERIAL, TYPE B, 6"

(10) CONCRETE MEDIAN, TYPE SB-6.12

(11) CONCRETE MEDIAN, TYPE SB

** (12) HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 2"

** (13) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 14 1/4"

** PAID AS HOT-MIX ASPHALT PAVEMENT 14 ½" (FULL-DEPTH)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE

PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

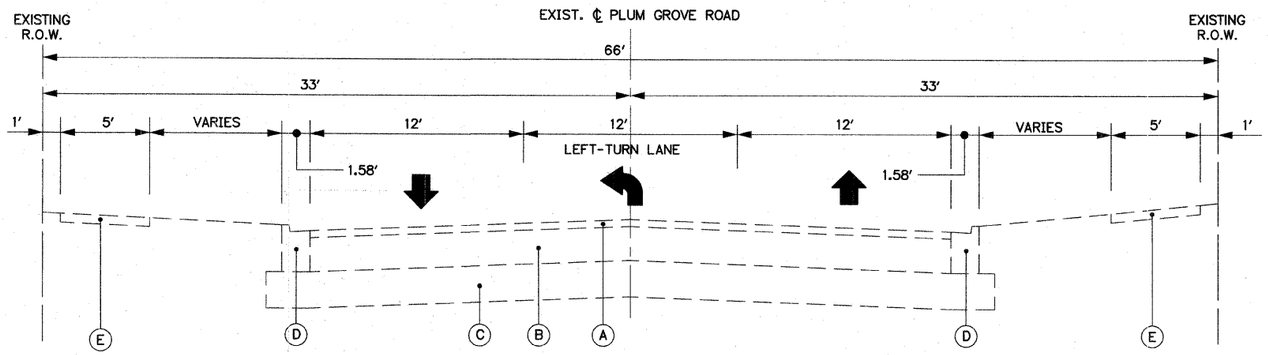
TYPICAL SECTIONS BENTON ST. TO KERWOOD ST. & HALE STREET

SCALE: VERT. N.T.S. HORIZ. N.T.S. DRAWN BY J.P.W.

DATE OCTOBER 19, 2009 CHECKED BY BA

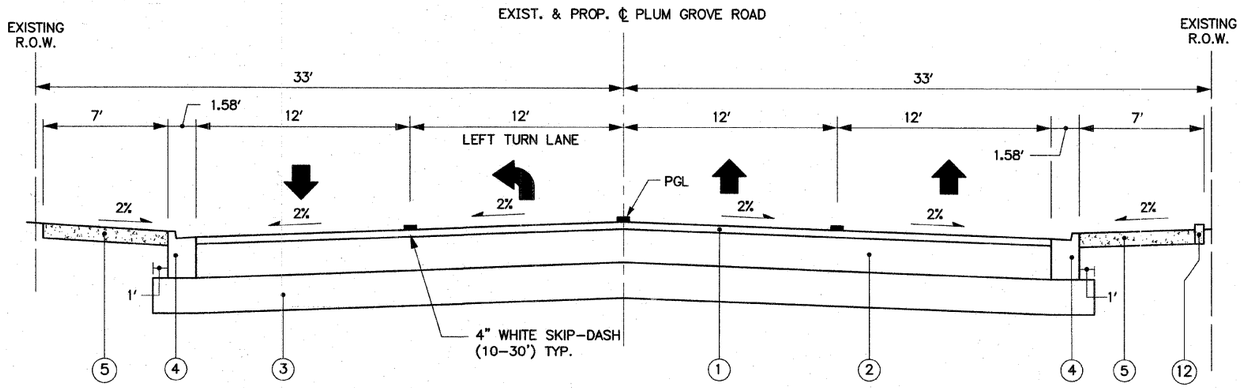
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	18
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083



EXISTING TYPICAL SECTION

STA. 51+35.35 TO STA. 57+36
(LOOKING NORTH)



PROPOSED TYPICAL SECTION

STA. 51+35.35 TO STA. 57+36
(LOOKING NORTH)

LEGEND

EXISTING SECTION

(A) BITUMINOUS SURFACE,1" TO 3.5", TO BE REMOVED

(B) CONCRETE BASE COURSE, 7" TO 9", TO BE REMOVED

(C) GRANULAR SUB-BASE, 4" TO 6", TO BE REMOVED

(D) COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.12, TO BE REMOVED

(E) SIDEWALK TO BE REMOVED ON BOTH SIDES OF PLUM GROVE ROAD FROM WASHINGTON STREET TO PALATINE ROAD. SEE PLAN AND PROFILE SHEETS FOR LOCATIONS.

PROPOSED SECTION

** (1) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5mm), 2"

** (2) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90. 12 1/4"

(3) AGGREGATE SUBGRADE, 12"

(4) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12

(5) PORTLAND CEMENT CONCRETE SIDEWALK, 5" (LOCATIONS SHOWN ON PLANS)

(6) TOPSOIL, FURNISH AND PLACE 4" WITH SODDING SALT TOLERANT

(7) BRICK PAVERS

(8) SIDEWALK BRICK PAVERS SHOWN ON BOTH SIDES OF SIDEWALK ON NORTHSIDE AND SOUTHSIDE OF PALATINE ROAD

(9) SUB-BASE GRANULAR MATERIAL, TYPE B, 6"

(10) CONCRETE MEDIAN, TYPE SB-6.12

(11) CONCRETE MEDIAN, TYPE SB

(12) CONCRETE CURB TYPE B (SPECIAL). SEE PLANS FOR LOCATION

** PAID AS HOT-MIX ASPHALT PAVEMENT 14 1/4" (FULL-DEPTH)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

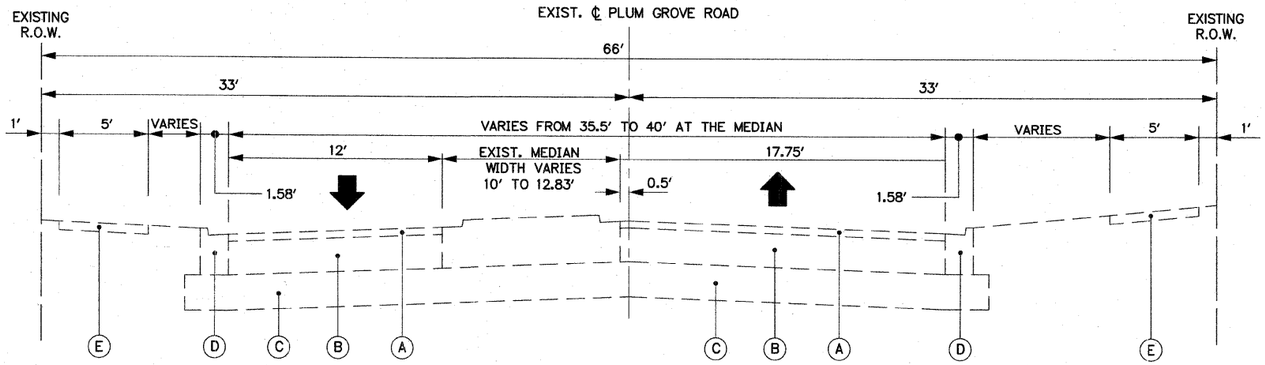
VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

TYPICAL SECTIONS
PLUM GROVE RD. - S. OF PALATINE RD.

SCALE: VERT. N.T.S. HORIZ. N.T.S.
DRAWN BY J.P.W.
DATE OCTOBER 19, 2009
CHECKED BY BA

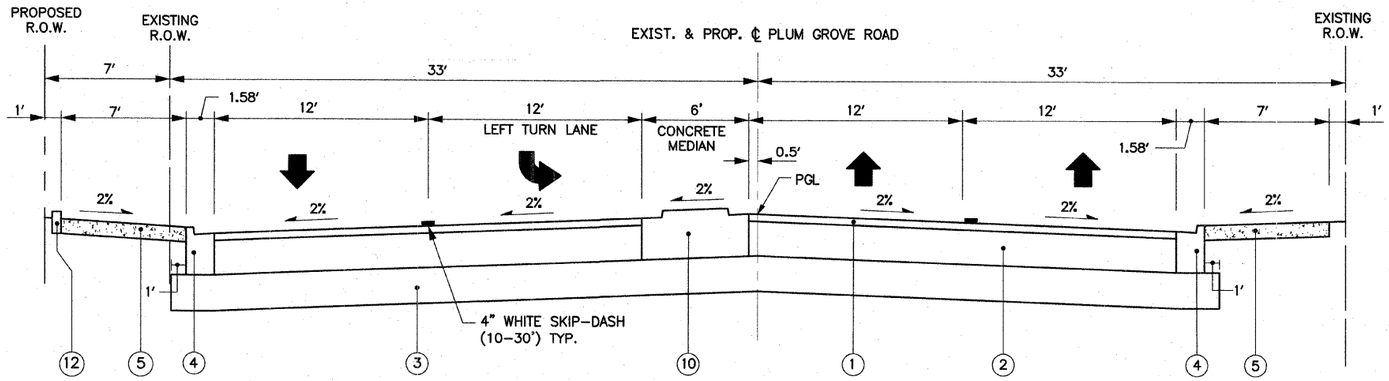
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	19
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083



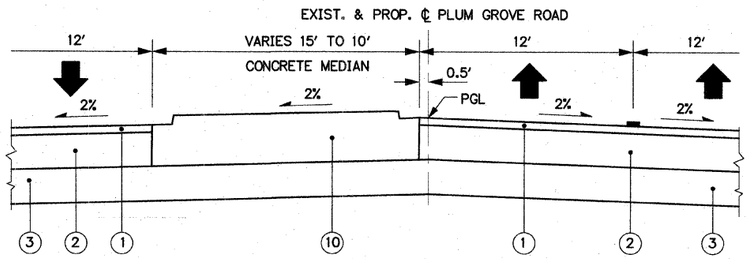
EXISTING TYPICAL SECTION

STA. 58+59 TO STA. 61+80
(LOOKING NORTH)



PROPOSED TYPICAL SECTION

STA. 58+59 TO STA. 59+56
SOUTH OF RAILROAD CROSSING
(LOOKING NORTH)



PROPOSED TYPICAL SECTION

(SHOWING CONCRETE MEDIAN)
NORTH OF RAILROAD CROSSING
STA. 60+18 TO STA. 61+80

LEGEND

EXISTING SECTION

(A) BITUMINOUS SURFACE,1" TO 3.5", TO BE REMOVED

(B) CONCRETE BASE COURSE, 7" TO 9", TO BE REMOVED

(C) GRANULAR SUB-BASE, 4" TO 6", TO BE REMOVED

(D) COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.12, TO BE REMOVED

(E) SIDEWALK TO BE REMOVED ON BOTH SIDES OF PLUM GROVE ROAD FROM PALATINE ROAD TO SLADE STREET. SEE PLAN AND PROFILE SHEETS FOR LOCATIONS.

PROPOSED SECTION

** (1) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5mm), 2"

** (2) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90. 12 1/4"

(3) AGGREGATE SUBGRADE, 12"

(4) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12

(5) PORTLAND CEMENT CONCRETE SIDEWALK, 5" (LOCATIONS SHOWN ON PLANS)

(6) TOPSOIL, FURNISH AND PLACE 4" WITH SODDING SALT TOLERANT

(7) BRICK PAVERS

(8) SIDEWALK BRICK PAVERS SHOWN ON BOTH SIDES OF SIDEWALK ON NORTHSIDE AND SOUTHSIDE OF PALATINE ROAD

(9) SUB-BASE GRANULAR MATERIAL, TYPE B, 6"

(10) CONCRETE MEDIAN, TYPE SB-6.12

(11) CONCRETE MEDIAN, TYPE SB

(12) CONCRETE CURB TYPE B (SPECIAL). SEE PLANS FOR LOCATION

** PAID AS HOT-MIX ASPHALT PAVEMENT 14 1/4" (FULL-DEPTH)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

TYPICAL SECTIONS
PLUM GROVE RD. - N. OF PALATINE RD.

SCALE: VERT. N.T.S. HORIZ. N.T.S.
DATE OCTOBER 19, 2009
DRAWN BY J.P.W.
CHECKED BY BA

CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	20
STA. ----------	TO STA. ----------			
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

EARTHWORK SCHEDULE - PALATINE ROAD

BEGIN STATION	END STATION	EARTH EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE*	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	POROUS GRANULAR EMBANKMENT, SUBGRADE
		CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.
202+50.00	203+00.00	9.6	12.4	7.2	3.7	3.5	9.1
203+00.00	203+50.00	34.4	38.1	25.8	6.8	19.1	29.1
203+50.00	204+00.00	54.3	53.1	40.7	5.2	35.5	41.8
204+00.00	204+50.00	59.4	57.6	44.5	4.7	39.8	45.2
204+50.00	205+00.00	65.4	64.4	49.0	6.8	42.3	48.7
205+00.00	205+45.52	67.1	59.9	50.3	6.6	43.7	47.0
205+45.52	205+50.00	6.9	5.7	5.2	0.6	4.6	4.8
205+50.00	205+94.88	144.9	152.1	108.6	2.8	105.8	147.4
205+94.88	206+00.00	25.4	28.2	19.1	0.0	19.1	28.2
206+00.00	206+50.00	200.6	219.0	150.4	1.9	148.6	211.6
206+50.00	207+00.00	142.7	163.6	107.0	3.7	103.3	147.8
207+00.00	207+50.00	126.1	89.5	94.6	3.7	90.9	73.9
207+50.00	208+00.00	125.7	13.5	94.3	3.7	90.6	0.0
208+00.00	208+50.00	119.4	12.6	89.5	3.7	85.8	0.0
208+50.00	208+77.38	62.0	6.5	46.5	2.1	44.4	0.0
208+77.38	209+00.00	74.1	5.9	55.5	2.2	53.3	0.0
209+00.00	209+24.62	169.5	3.7	127.1	1.5	125.6	0.0
209+24.62	209+50.00	215.3	1.5	161.5	0.9	160.5	0.0
209+50.00	210+00.00	286.1	8.1	214.6	8.3	206.3	0.0
210+00.00	210+50.00	185.2	10.5	138.9	15.6	123.3	0.0
210+50.00	211+00.00	181.6	10.6	136.2	20.4	115.8	0.0
211+00.00	211+50.00	166.8	10.7	125.1	25.6	99.4	0.0
211+50.00	212+00.00	134.4	10.7	100.8	27.7	73.1	0.0
212+00.00	212+05.46	14.5	1.2	10.9	2.9	8.0	0.0
212+05.46	212+50.00	178.7	4.8	134.0	12.1	121.9	0.0
212+50.00	212+55.79	33.5	0.0	25.1	0.0	25.1	0.0
212+55.79	213+00.00	224.4	10.0	168.3	1.7	166.6	0.0
213+00.00	213+50.00	198.1	22.6	148.5	5.7	142.8	0.0
213+50.00	214+00.00	211.4	27.7	158.5	5.6	152.9	0.0
214+00.00	214+50.00	191.5	16.4	143.6	5.8	137.8	0.0
214+50.00	215+00.00	156.2	6.5	117.2	5.8	111.3	0.0
215+00.00	215+35.69	142.1	12.8	106.6	2.6	103.9	0.0
215+35.69	215+50.00	69.0	8.4	51.8	0.5	51.2	0.0
215+50.00	216+00.00	215.0	18.1	161.3	0.0	161.3	0.0
216+00.00	216+50.00	214.8	3.4	161.1	2.3	158.8	0.0
216+50.00	217+00.00	276.6	7.0	207.4	4.6	202.8	0.0
217+00.00	217+50.00	280.2	10.2	210.1	5.1	205.0	0.0
217+50.00	218+00.00	188.9	7.3	141.7	3.3	138.3	0.0
218+00.00	218+50.00	135.0	4.1	101.3	1.5	99.8	0.0
218+50.00	219+00.00	94.7	5.9	71.0	20.4	50.7	0.0
219+00.00	219+50.00	69.4	6.9	52.0	21.6	30.4	0.0
219+50.00	220+00.00	116.4	5.0	87.3	3.9	83.4	0.0
220+00.00	220+50.00	164.3	7.9	123.2	9.6	113.6	0.0
220+50.00	221+00.00	214.5	14.5	160.9	13.7	147.2	0.0
221+00.00	221+50.00	251.3	18.6	188.5	8.1	180.3	0.0
221+50.00	222+00.00	255.2	14.6	191.4	4.2	187.2	0.0
222+00.00	222+43.36	246.3	7.1	184.8	5.5	179.3	0.0
222+43.36	222+50.00	41.5	14.2	31.1	0.8	30.3	12.9
222+50.00	222+97.31	218.5	129.0	163.9	2.0	161.9	124.2
222+97.31	223+00.00	8.4	4.8	6.3	0.5	5.8	4.8
223+00.00	223+50.00	160.7	113.2	120.6	12.9	107.7	107.1
223+50.00	224+00.00	166.6	117.1	124.9	8.1	116.9	103.6
224+00.00	224+50.00	194.1	118.6	145.6	5.9	139.6	100.8
224+50.00	225+00.00	209.4	114.7	157.0	4.8	152.2	98.5
225+00.00	225+50.00	187.9	58.5	140.9	4.4	136.6	48.5
225+50.00	226+00.00	155.6	6.6	116.7	3.9	112.8	0.0
226+00.00	226+50.00	125.6	6.8	94.2	3.9	90.3	0.0
226+50.00	227+00.00	100.5	6.5	75.3	3.9	71.5	0.0
227+00.00	227+50.00	117.0	10.0	87.8	4.5	83.2	0.0
227+50.00	228+00.00	140.1	12.5	105.1	5.3	99.8	0.0
228+00.00	228+50.00	119.4	11.4	89.5	7.0	82.5	0.0
228+50.00	229+00.00	137.8	7.9	103.3	5.6	97.7	0.0
229+00.00	229+50.00	161.2	7.4	120.9	3.6	117.3	0.0
229+50.00	229+69.86	52.4	2.0	39.3	1.7	37.6	0.0
229+69.86	230+00.00	63.6	3.1	47.7	3.2	44.5	0.0
230+00.00	230+50.00	105.2	11.3	78.9	6.4	72.5	0.0
230+50.00	231+00.00	118.0	9.3	88.5	5.4	83.1	0.0
231+00.00	231+50.00	128.7	7.3	96.5	4.9	91.6	0.0
231+50.00	232+00.00	118.9	7.7	89.2	4.6	84.5	0.0
232+00.00	232+50.00	110.5	8.9	82.8	4.6	78.2	0.0
232+50.00	233+00.00	101.0	9.1	75.8	5.9	69.8	0.0
233+00.00	233+50.00	94.1	8.0	70.6	5.9	64.6	0.0
233+50.00	234+00.00	93.5	10.1	70.1	6.2	63.9	0.0
234+00.00	234+50.00	89.8	50.0	67.4	6.6	60.8	38.9
234+50.00	235+00.00	104.4	88.7	78.3	5.9	72.4	77.8
235+00.00	235+50.00	110.8	81.9	83.1	4.9	78.2	76.3
235+50.00	236+00.00	100.6	84.1	75.4	9.5	65.9	79.4
236+00.00	236+50.00	114.3	91.3	85.7	10.2	75.5	80.9

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE

PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

EARTHWORK SCHEDULE

SCALE: VERT. N/A HORIZ.
DRAWN BY BFH
DATE OCTOBER 19, 2009
CHECKED BY BA

SC-1

PLOT DATE = $DATE$
FILE NAME = $02040D$
PLOT SCALE = $SCALE$
USER NAME = $USER$

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CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	21
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

EARTHWORK SCHEDULE - PALATINE ROAD (CONTINUE)

BEGIN STATION	END STATION	EARTH EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE*	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	POROUS GRANULAR EMBANKMENT, SUBGRADE
		CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.
236+50.00	237+00.00	132.3	89.0	99.2	5.0	94.2	77.8
237+00.00	237+50.00	126.4	89.0	94.8	5.1	89.7	77.8
237+50.00	238+00.00	114.1	88.8	85.6	5.4	80.2	77.8
238+00.00	238+50.00	110.7	84.4	83.1	4.4	78.6	76.8
238+50.00	238+63.19	30.0	11.3	22.5	1.3	21.2	10.0
238+63.19	239+00.00	102.7	5.7	77.0	7.4	69.6	0.0
239+00.00	239+13.07	40.6	1.5	30.5	1.8	28.7	0.0
TOTAL		11,205.10	2,860.36	8,403.82	498.32	7,905.50	2,108.27

EARTHWORK SCHEDULE - PLUM GROVE ROAD

BEGIN STATION	END STATION	EARTH EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE*	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	POROUS GRANULAR EMBANKMENT, SUBGRADE
		CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.
51+50.00	52+00.00	127.3	3.4	95.5	9.8	85.7	
52+00.00	52+50.00	119.6	6.6	89.7	10.7	79.0	
52+50.00	53+00.00	126.7	3.6	95.0	8.9	86.1	
53+00.00	53+50.00	122.3	3.1	91.7	7.3	84.4	
53+50.00	54+00.00	118.7	7.5	89.0	10.8	78.2	
54+00.00	54+50.00	103.2	7.2	77.4	12.9	64.6	
54+50.00	54+71.39	37.9	1.2	28.4	3.1	25.3	
54+71.39	55+00.00	45.9	0.2	34.4	11.3	23.1	
55+00.00	55+50.00	65.0	4.1	48.8	28.1	20.6	
55+50.00	56+00.00	86.3	6.8	64.7	18.9	45.8	
56+00.00	56+50.00	119.9	7.3	89.9	10.7	79.2	
56+50.00	57+00.00	141.9	4.3	106.5	5.9	100.5	
57+00.00	57+50.00	198.5	0.0	148.9	10.6	138.2	
57+50.00	58+00.00	118.1	0.0	88.6	6.8	81.9	
58+00.00	58+50.00	129.8	26.6	97.4	2.9	94.5	
58+50.00	59+00.00	220.6	34.0	165.5	11.2	154.3	
59+00.00	59+41.17	174.7	6.1	131.0	11.4	119.6	
59+41.17	59+50.00	37.3	0.4	28.0	1.8	26.2	
59+50.00	60+00.00	89.8	2.2	67.4	4.7	62.6	
60+00.00	60+50.00	101.9	6.7	76.4	8.2	68.1	
60+50.00	61+00.00	188.7	10.0	141.5	13.4	128.1	
61+00.00	61+30.55	116.2	3.6	87.2	4.6	82.5	
61+30.55	61+50.00	65.3	2.0	49.0	1.9	47.0	
61+50.00	61+80.00	68.8	2.9	51.6	3.6	48.0	
TOTAL		2724.54	149.81	2043.41	219.80	1823.60	

EARTHWORK SCHEDULE FOR TEMPORARY PAVEMENT - PLUM GROVE ROAD

BEGIN STATION	END STATION	EARTH EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE*	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
		CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.
51+50.00	51+97.78	12.7	2.3	9.6	0.0	9.6
51+97.78	52+00.00	0.5	0.0	0.4	0.0	0.4
52+00.00	52+50.00	7.8	2.6	5.8	0.0	5.8
52+50.00	53+00.00	8.7	5.7	6.5	0.0	6.5
53+00.00	53+50.00	9.8	5.7	7.4	0.0	7.4
53+50.00	54+00.00	10.6	5.2	7.9	0.0	7.9
54+00.00	54+50.00	9.9	5.2	7.4	0.0	7.4
54+50.00	54+71.39	3.8	1.1	2.9	0.0	2.9
54+71.39	54+72.09	0.2	0.0	0.1	0.0	0.1
54+72.09	55+00.00	7.2	1.4	5.4	0.0	5.4
55+00.00	55+50.00	10.6	5.0	7.9	0.0	7.9
55+50.00	56+00.00	10.3	5.0	7.7	0.0	7.7
56+00.00	56+50.00	8.1	2.5	6.1	0.0	6.1
56+50.00	56+55.86	1.5	0.0	1.1	0.0	1.1
56+55.86	57+00.00	11.3	2.2	8.5	0.0	8.5
57+00.00	57+50.00	8.9	2.5	6.7	0.0	6.7
TOTAL		121.85	46.46	91.38	0.0	91.38

EARTHWORK SUMMARY

DESCRIPTION	UNIT	QUANTITY
EARTH EXCAVATION	CU. YD.	14,052
FURNISHED EXCAVATION	CU. YD.	720
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU. YD.	3,057
POROUS GRANULAR EMBANKMENT, SUB-GRADE	CU. YD.	2,110

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE

PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION

SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

EARTHWORK SCHEDULE

SCALE: VERT. N/A HORIZ.

DRAWN BY BFH

DATE OCTOBER 19, 2009

CHECKED BY BA

SC-2

PLOT DATE = $DATE$
FILE NAME = $D2040D$
PLOT SCALE = $SCALE$
USER NAME = $USER$

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CONTRACT NO. 63083	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1285	02-00075-00-PV	COOK	161	22
	STA. _____		TO STA._____		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

DRIVEWAY REMOVAL AND REPLACEMENT SCHEDULE

ROAD NAME	STATION OR OFFSET	LEFT OR RIGHT	TYPE DRIVE (COMMERCIAL) (PRIVATE) (ALLEY)	DRIVEWAY PAVEMENT REMOVAL (SQ FT)	REPLACE DRIVE	PROPOSED DRIVEWAY WIDTH (FT)
PALATINE	207+23.9	RT	CD	240	YES	24
PALATINE	207+26.4	LT	CD	325	YES	21
PALATINE	207+71.9	LT	CD	355	YES	33
PALATINE	207+84.9	RT	CD	292	YES	24
BROCKWAY	59.5	LT	CD	62	YES	16
BROCKWAY	73.4	RT	CD	264	YES	15
PALATINE	211+22.7	LT	CD	142	YES	24
BOTHWELL	73.4	RT	CD	374	YES	14
BOTHWELL	74.9	RT	CD	324	YES	12
PALATINE	213+62.4	LT	CD	245	YES	17.5
PALATINE	213+87.8	RT	CD	206	YES	30
PALATINE	214+55.0	RT	CD	444	YES	24
PALATINE	215+21.7	RT	CD	420	NO	-
PLUM GROVE	57+45.7	LT	CD	248	NO	-
PLUM GROVE	57+42.7	RT	CD	296	NO	-
PLUM GROVE	56+78.9	LT	CD	409	YES	30
PLUM GROVE	56+55.9	RT	CD	294	YES	30
PLUM GROVE	54+72.1	RT	CD	361	YES	28.3
PLUM GROVE	53+61.0	LT	PD	120	YES	10.6
PLUM GROVE	52+97.7	LT	PD	106	YES	10.6
PLUM GROVE	51+97.8	RT	CD	366	YES	32
PALATINE	216+44.1	RT	CD	348	NO	-
PALATINE	217+30.2	RT	CD	391	YES	30
PALATINE	218+04.9	RT	CD	319	YES	21
PALATINE	218+83.3	RT	CD	846	NO	-
HALE	42.25	LT	CD	319	YES	24
HALE	82.15	LT	CD	553	YES	36
HALE	160.9	LT	CD	447	NO	-
PALATINE	220+57.8	LT	CD	662	YES	22.3
PALATINE	221+00.3	LT	CD	757	YES	34
PALATINE	222+07.9	RT	CD	882	YES	28.3
PALATINE	223+21.6	RT	PD	1,391	YES	11
PALATINE	224+20.1	RT	PD	295	YES	11.4
PALATINE	224+21.9	LT	PD	129	YES	14.1
PALATINE	225+19.0	LT	PD	188	YES	16.7
PALATINE	225+49.9	RT	PD	373	YES	22
PALATINE	226+05.4	LT	PD	284	YES	29.5
PALATINE	226+51.0	RT	PD	297	YES	21.5
PALATINE	227+06.7	LT	PD	207	YES	17.1
PALATINE	227+23.9	RT	PD	190	YES	17.6
PALATINE	228+19.9	RT	PD	348	YES	25.1
PALATINE	228+63.9	RT	PD	246	YES	22.5
PALATINE	230+41.6	LT	PD	155	YES	14.5
PALATINE	231+04.3	LT	PD	183	YES	14.6
PALATINE	231+28.9	LT	PD	188	YES	16.7
PALATINE	231+82.2	RT	PD	183	YES	14.1
PALATINE	232+02.8	RT	PD	158	YES	13.6
PALATINE	232+75.0	RT	PD	250	YES	21.2
PALATINE	233+02.6	LT	PD	150	NO	-
PALATINE	233+23.2	LT	PD	158	NO	-
PALATINE	233+89.7	LT	PD	154	YES	15.3
PALATINE	234+18.5	RT	PD	233	YES	17
PALATINE	234+58.5	LT	PD	127	NO	-
PALATINE	234+78.0	RT	PD	189	YES	13.7
PALATINE	236+69.0	LT	PD	180	YES	14.8
PALATINE	237+42.2	RT	PD	155	YES	12.4
PALATINE	237+91.7	RT	PD	149	YES	12.4
PALATINE	239+14.3	LT	CD	192	YES	23.0
TOTAL				18,169		

SIDEWALK REMOVAL SCHEDULE

LOCATION	SIDEWALK REMOVAL (SQ FT)
PALATINE ROAD	
STA. 205+31.5 TO STA. 205+83.1, LT	815
STA. 205+58.6 TO STA. 205+82.1, RT	210
STA. 206+08.2 TO STA. 208+99.5, LT	2310
STA. 206+08.1 TO STA. 209+08.7, RT	1827
STA. 209+48.3 TO STA. 212+30.4, LT	2719
STA. 209+42.5 TO STA. 212+38.5, RT	1838
STA. 212+80.0 TO STA. 215+53.3, LT	2665
STA. 212+72.0 TO STA. 215+53.6, RT	1571
PLUM GROVE ROAD	
STA. 51+54.5 TO STA. 54+57.7, LT	1618
STA. 51+37.3 TO STA. 57+82.1, RT	2989
STA. 58+25.0 TO STA. 59+10.4, LT	460
STA. 58+23.1 TO STA. 59+30.6, RT	858
STA. 59+40.9 TO STA. 59+73.0, LT	385.6
STA. 59+97.7 TO STA. 60+95.1, RT	420
STA. 60+34.5 TO STA. 60+95.3, LT	288
PALATINE ROAD	
STA. 216+17.9 TO STA. 218+18.2, LT	1799
STA. 216+17.2 TO STA. 218+80.4, RT	1187
STA. 218+82.7 TO STA. 218+87.0, LT	55
STA. 218+82.4 TO STA. 218+86.8, LT	210
STA. 219+42.3 TO STA. 219+46.7, LT	478
STA. 219+42.5 TO STA. 220+48.1, LT	584
STA. 220+01.1 TO STA. 226+95.6, RT	3455
STA. 220+69.3 TO STA. 220+83.4, LT	57
STA. 221+17.5 TO STA. 222+30.7, LT	724
STA. 221+86.9 TO STA. 221+97.1, LT	44
STA. 222+63.9 TO STA. 223+00.0, LT	247
STA. 228+69.1 TO STA. 228+83.4, LT	94
STA. 229+20.2 TO STA. 229+38.3, LT	141
STA. 229+39.8 TO STA. 229+52.5, RT	110
STA. 229+87.2 TO STA. 229+99.7, RT	61
STA. 235+35.7 TO STA. 235+46.3, LT	46
STA. 235+49.3 TO STA. 235+54.2, RT	59
STA. 235+60.2 TO STA. 235+68.2, RT	37
STA. 235+70.1 TO STA. 235+80.5, LT	45
STA. 235+96.3 TO STA. 236+12.6, RT	104
STA. 238+81.2 TO STA. 238+86.2, RT	12
STA. 238+93.2 TO STA. 239+00.0, RT	31
STA. 238+87.2 TO STA. 239+03.0, LT	75
TOTAL	30,629

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE

PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION

SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

SCHEDULE OF QUANTITIES

SCALE: VERT. N/A HORIZ.

DATE OCTOBER 19, 2009

DRAWN BY DMB

CHECKED BY BA

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FILE NAME = $$DGNAME$
PLOT SCALE = $SCALE$
USER NAME = $USER$

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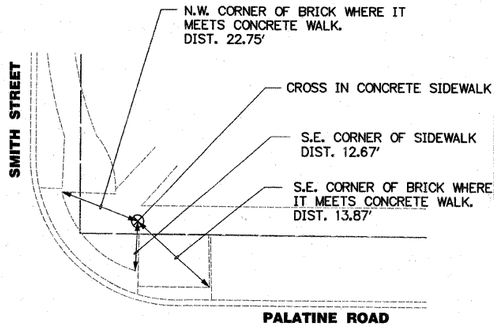
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	23
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083



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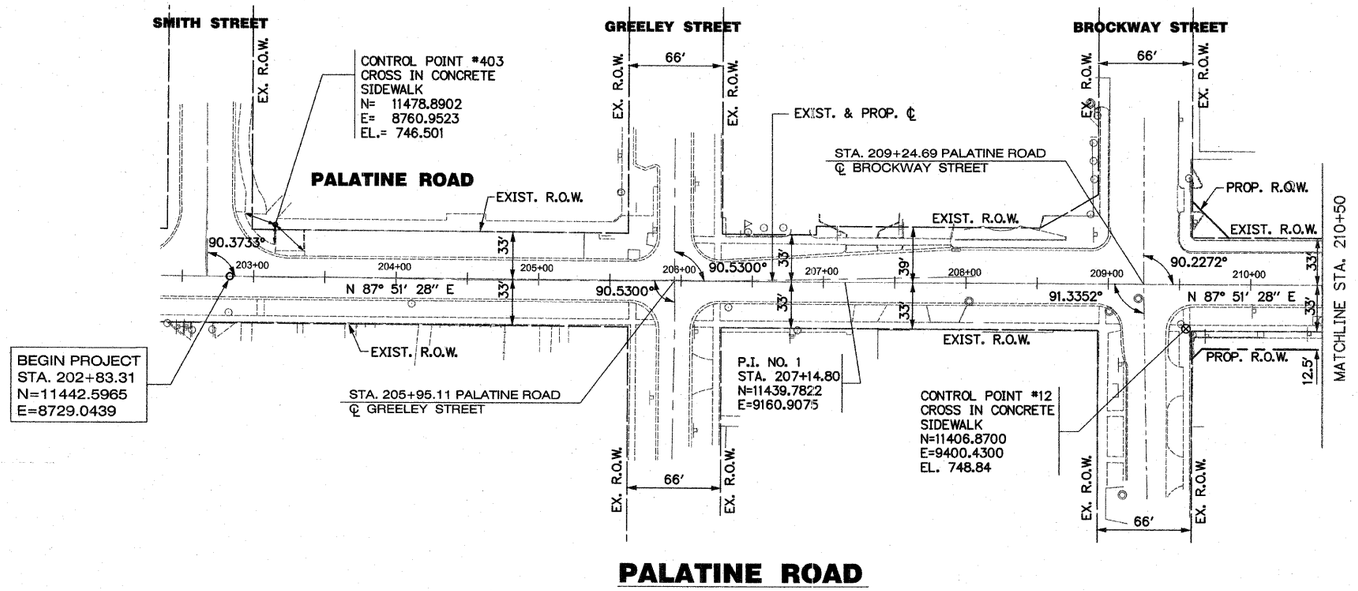
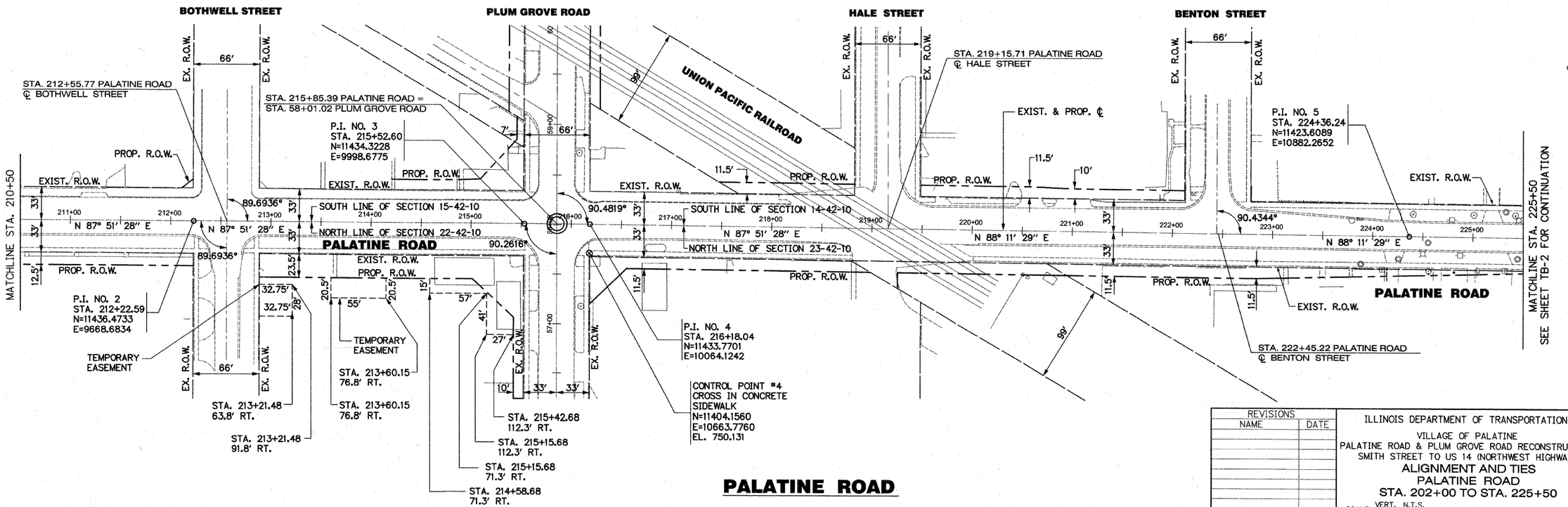
NORTHING 11478.8902
EASTING 8760.9523
EL. 746.501



PALATINE ROAD



PALATINE ROAD

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

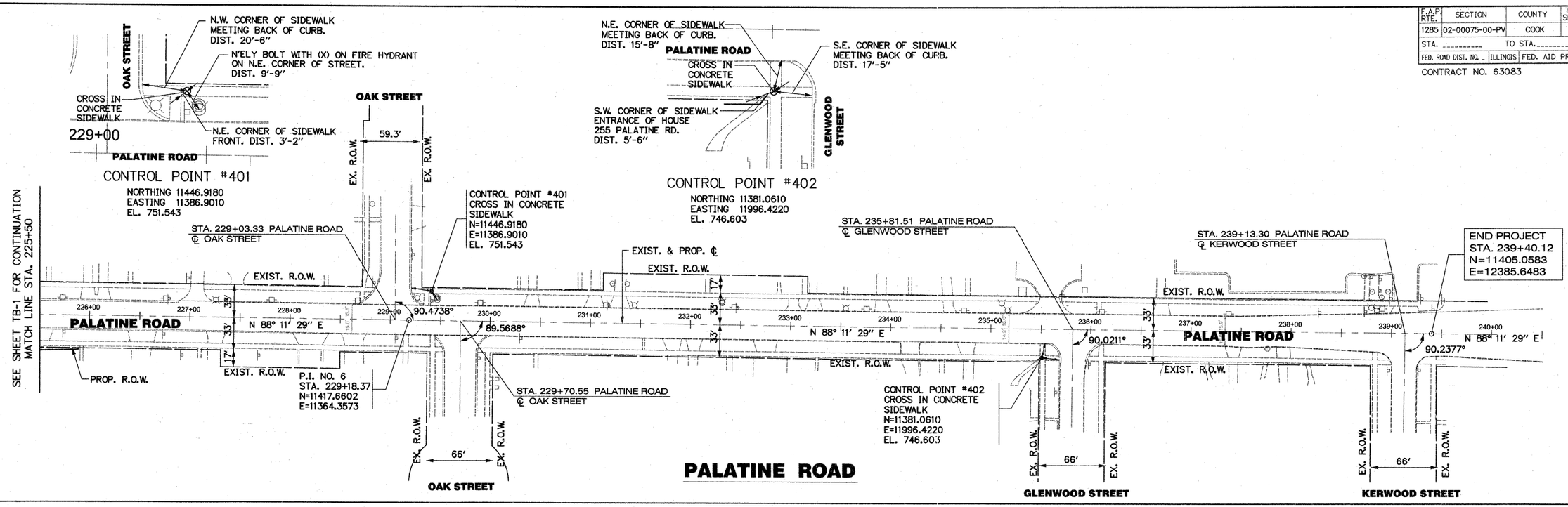
VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

ALIGNMENT AND TIES
PALATINE ROAD
STA. 202+00 TO STA. 225+50

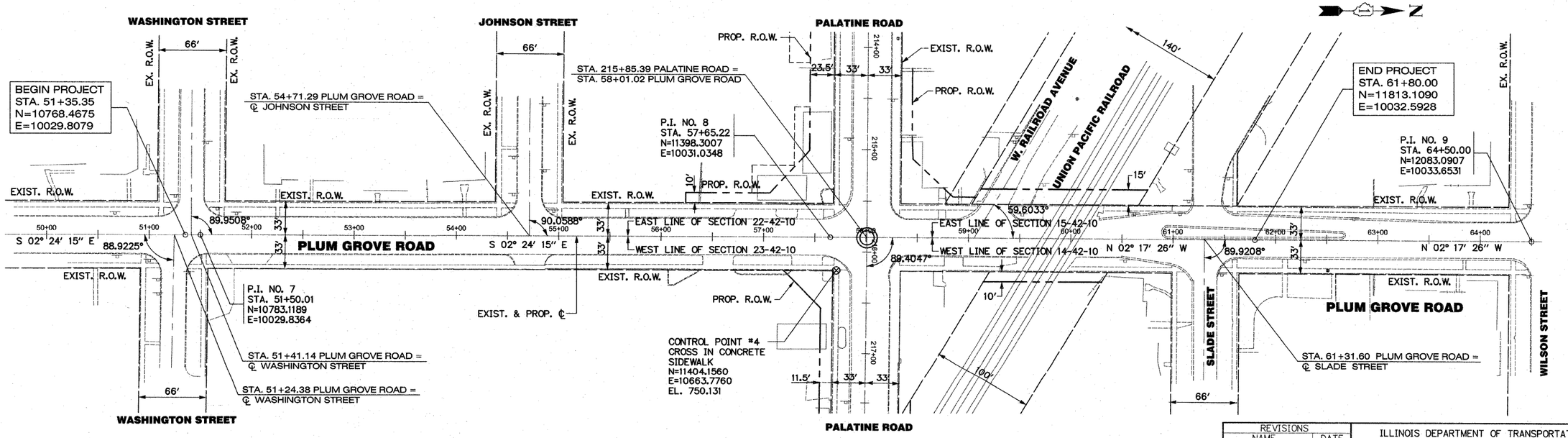
SCALE: VERT. N.T.S. HORIZ. 1" = 50'
DRAWN BY BA
DATE OCTOBER 19, 2009
CHECKED BY RY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	24
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083



PALATINE ROAD



PLUM GROVE ROAD

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

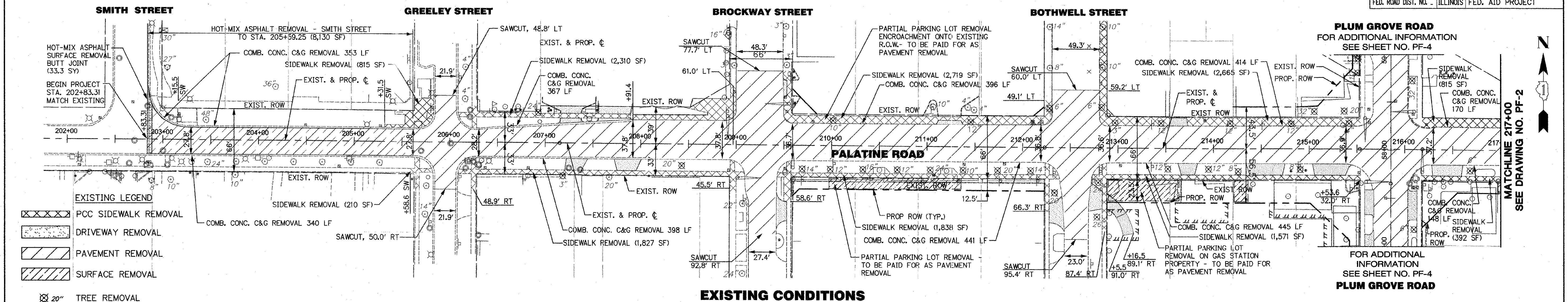
VILLAGE OF PALATINE

PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

ALIGNMENT AND TIES
STA 225+50 TO STA 240+00 PALATINE RD
STA 50+00 TO STA 64+00 PLUM GROVE

SCALE: VERT. N.T.S.
HORIZ. 1" = 50'
DATE OCTOBER 19, 2009

DRAWN BY BA
CHECKED BY RY



EXISTING LEGEND

- PCC SIDEWALK REMOVAL
- DRIVEWAY REMOVAL
- PAVEMENT REMOVAL
- SURFACE REMOVAL
- 20" TREE REMOVAL

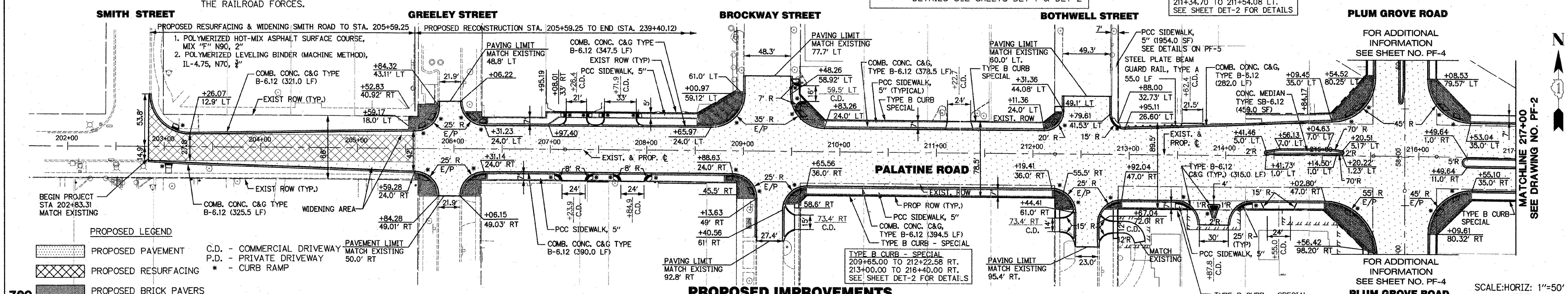
EXISTING CONDITIONS

NOTE: ALL THE RAILROAD CROSSING NEW GATES, SIGNAL, CANTILEVER STRUCTURE AND PEDESTRIAN GATES WILL BE CONSTRUCTED BY THE RAILROAD FORCES.

NOTE 1: FOR INTERSECTION BRICK PAVING DETAILS SEE SHEETS DET-1 & DET-2

TYPE B CURB - SPECIAL
209+83.00 TO 211+10.70 LT.
211+34.70 TO 211+54.08 LT.
SEE SHEET DET-2 FOR DETAILS

NOTE 2: ALL THE EXISTING DRIVEWAYS WITHIN THE EXISTING R.O.W. ARE P.C.C. PAVEMENT.



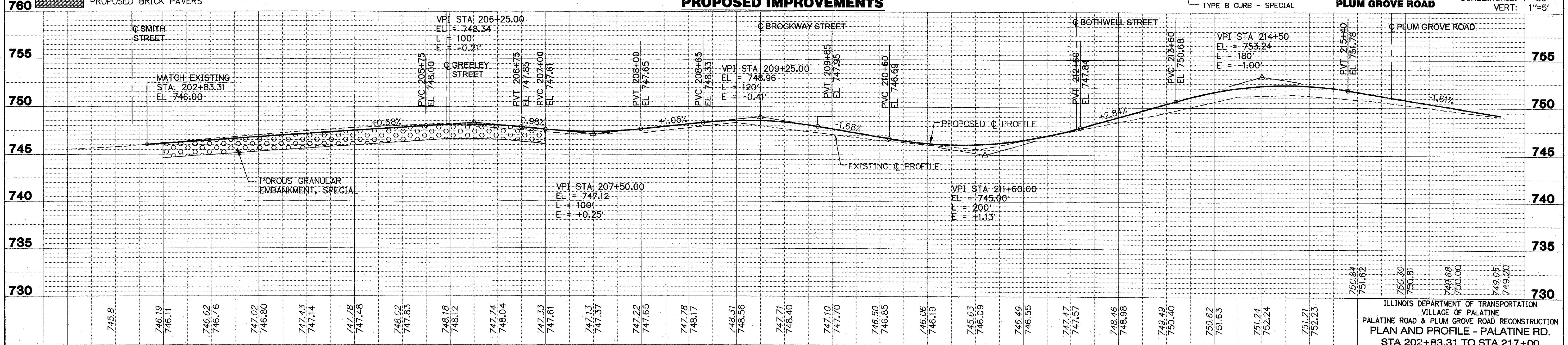
PROPOSED LEGEND

- PROPOSED PAVEMENT
- PROPOSED RESURFACING
- PROPOSED BRICK PAVERS

C.D. - COMMERCIAL DRIVEWAY
P.D. - PRIVATE DRIVEWAY
* - CURB RAMP

PROPOSED IMPROVEMENTS

SCALE: HORIZ: 1"=50'
VERT: 1"=5'



ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
PLAN AND PROFILE - PALATINE RD.
STA 202+83.31 TO STA 217+00

CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	26
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

HALE STREET
FOR ADDITIONAL INFORMATION SEE SHEET PF-5

BENTON STREET

OAK STREET

EXISTING LEGEND
- PCC SIDEWALK REMOVAL
- DRIVEWAY REMOVAL
- PAVEMENT REMOVAL
- 20" TREE REMOVAL

UNION PACIFIC RAILROAD

RETAINING WALL TO BE REMOVED (107 LF)
EXIST. & PROP. ℄
SIDEWALK REMOVAL (584 SF)
COMB. CONC. C&G REMOVAL 332 LF
SIDEWALK REMOVAL (984 SF)
COMB. CONC. C&G REMOVAL 118 LF
EXIST. ROW
SAWCUT 65.0' LT
48.3' LT
SIDEWALK REMOVAL (247 SF)
COMB. CONC. C&G REMOVAL 701 LF
SAWCUT, 49.0' LT
SIDEWALK REMOVAL (94 SF)
SIDEWALK REMOVAL (141 SF)
COMB. CONC. C&G REMOVAL 311 LF
PROP. ROW
SIDEWALK REMOVAL (795 SF)
COMB. CONC. C&G REMOVAL 184 LF
PARTIAL PARKING LOT REMOVAL TO BE PAID FOR AS PAVEMENT REMOVAL
COMB. CONC. C&G REMOVAL 985 LF
PARTIAL PARKING LOT REMOVAL TO BE PAID FOR AS PAVEMENT REMOVAL
SIDEWALK REMOVAL (3,455 SF)
PALATINE ROAD
SIDEWALK REMOVAL (110 SF)
COMB. CONC. C&G REMOVAL 232 LF
SIDEWALK REMOVAL (61 SF)
SAWCUT, 43.2' RT

MATCHLINE 217+00 SEE DRAWING NO. PF-1

MATCHLINE 232+00 SEE DRAWING NO. PF-3

N

EXISTING CONDITIONS

C.D. - COMMERCIAL DRIVEWAY
P.D. - PRIVATE DRIVEWAY
* - CURB RAMP

FOR ADDITIONAL INFORMATION FOR HALE STREET SEE SHEET PF-5

HALE STREET

BENTON STREET

OAK STREET

COMB. CONC. C&G TYPE M-6.12
217+24.63, 35.0' LT TO 217+99.27, 35.0' LT
220+12.22, 35.0' RT TO 220+87.63, 35.0' RT

PROPOSED MSE WALL
SEE SHEET DET-2 FOR DETAILS
BEGIN STA. 221+18.00
END STA. 222+12.00

NOTE 4: ALL THE RAILROAD CROSSINGS NEW GATES, SIGNAL, CANTILEVER STRUCTURE AND PEDESTRIAN GATES WILL BE CONSTRUCTED BY THE RAILROAD FORCES.

NOTE 1: ALL THE EXISTING DRIVEWAYS WITHIN THE EXISTING R.O.W. ARE P.C.C. PAVEMENT.

NOTE 2:
ALL COMB. CONC. C&G TYPE M-6.12 SHALL BE INCIDENTAL TO THE COST OF COMB. CONC. C&G TYPE B-6.12.

COMB. CONC. C&G TYPE B-6.12 (146.0 LF)
COMB. CONC. C&G TYPE M-6.12
CONC. MEDIAN TYPE SB (2233.5 SF)
PCC SIDEWALK, 5"
RELOCATED PED. GATE
NEW GATE & SIGNAL
CANTILEVER STRUCTURE
COMB. CONC. C&G TYPE B-6.12 (363.5 LF)
PCC SIDEWALK, 5"
PROP ROW
PAVING LIMIT MATCH EXISTING 65.0' LT
PCC SIDEWALK, 5"
COMB. CONC. C&G TYPE B-6.12 (688.5 LF)
PAVING LIMIT MATCH EXISTING 51.0' LT
PCC SIDEWALK, 5"
COMB. CONC. C&G TYPE B-6.12 (301.5 LF)
TYPE B CURB SPECIAL
NEW GATE & SIGNAL
5' WIDE PCC SIDEWALK
CONC. CURB TYPE M-6
PCC SIDEWALK, 5"
TYPE B CURB (161 LF)
RELOCATED PED. GATE
CONC. CURB TYPE M-6
NEW PED. GATE
TOPSOIL, SOD & SMALL BUSHES (76 S.Y.)
CONC. MEDIAN TYPE SB (1312.0 SF)
PROP ROW
TYPE B CURB SPECIAL
COMB. CONC. C&G TYPE M-6.12
EXIST. ROW
UNION PACIFIC RAILROAD
PROP ROW (TYP)
PCC SIDEWALK, 5"
EXIST ROW (TYP.)
COMB. CONC. C&G TYPE B-6.12 (956.0 LF)
PCC SIDEWALK, 5"
COMB. CONC. C&G TYPE B-6.12 (229.0 LF)
COMB. CONC. C&G, TYPE B-6.12 263.5 LF

CONC. CURB TYPE M-6
217+83.42, 1.0' RT TO 218+74.16, 11.0' RT
219+57.84, 1.0' RT TO 220+46.85, 6.5' RT
SEE SHEET PF-3 FOR DETAIL

TYPE B CURB - SPECIAL
216+75.00 TO 217+15.20 RT.
217+45.20 TO 217+94.40 RT.
220+92.50 TO 221+40.00 RT.
SEE SHEET DET-2 FOR DETAILS

PROPOSED LEGEND
- PROPOSED PAVEMENT

NOTE 3: THE QUANTITY FOR THE PAVING BETWEEN RAILS OF AT-GRADE CROSSING: NORTHSIDE = 90.0 S.Y. SOTHSIDE = 86.0 S.Y.

PROPOSED IMPROVEMENTS

SCALE: HORIZ: 1"=50'
VERT: 1"=5'

℄ HALE STREET
℄ BENTON STREET
℄ OAK STREET
℄ OAK STREET

PVC 217+10 EL 749.04
PVT 218+00 EL 748.46
PVC 218+07.50 EL 748.48
PVT 218+32.50 EL 748.54
PVC 219+78.50 EL 748.56
PVT 220+03.50 EL 748.44
PVC 220+05.00 EL 748.43
PVC 220+95.00 EL 749.01
PVC 221+85 EL 750.79
VPI STA 222+35 EL = 751.79 L = 100' E = -0.51'
PVT 222+85 EL 750.45
PVC 222+90 EL 750.32
PVT 224+70 EL 749.61
PVC 226+10 EL 752.24
VPI STA 226+85 EL = 753.65 L = 150' E = -0.61'
PVT 227+60 EL 752.62
PVC 230+25 EL 748.97
PVT 231+25 EL 748.91
PVC 231+75 EL 749.53

+0.31% +0.16% -0.36% -0.68% +1.98% -2.67% -1.88% -1.38% +1.25%

PROPOSED ℄ PROFILE
EXISTING ℄ PROFILE
POROUS GRANULAR EMBANKMENT, SPECIAL

VPI STA 217+55.00 EL = 748.32 L = 90' E = +0.21'
VPI STA 218+20 EL = 748.52 L = 25' E = -0.01'
VPI STA 219+91 EL = 748.52 L = 25' E = -0.02'
VPI STA 220+50.00 EL = 748.12 L = 90' E = +0.29'
VPI STA 223+80.00 EL = 747.91 L = 180' E = +1.02'
VPI STA 230+75.00 EL = 748.28 L = 100' E = +0.33'

760 755 750 745 740 735 730

217+00	217+50	218+00	218+50	219+00	219+50	220+00	220+50	221+00	221+50	222+00	222+50	223+00	223+50	224+00	224+50	225+00	225+50	226+00	226+50	227+00	227+50	228+00	228+50	229+00	229+50	230+00	230+50	231+00	231+50	232+00
749.20	748.84	748.70	748.57	748.69	748.64	748.18	748.34	749.16	750.09	751.07	751.12	750.04	749.27	749.16	749.16	750.50	751.30	752.01	752.44	752.44	752.05	751.60	751.08	750.55	749.91	749.28	748.75	748.85	749.32	749.46
748.75	748.75	748.46	748.52	748.52	748.52	748.46	748.42	749.11	750.10	751.07	751.16	750.06	749.17	748.91	749.28	750.17	751.11	752.03	752.82	753.05	752.74	752.07	751.38	750.69	750.00	749.31	748.71	748.68	749.22	

NOTE 5: WHEN HIGHWAY-RAIL GRADE CROSSINGS EXIST EITHER WITHIN OR IN THE VICINITY OF A TTC ZONE, LANE RESTRICTIONS, FLAGGING, OR OTHER OPERATIONS SHALL NOT CREATE CONDITIONS WHERE VEHICLES CAN BE QUEUED ACROSS THE RAILROAD TRACKS. IF THE QUEUING OF VEHICLES ACROSS THE TRACKS CANNOT BE AVOIDED, A UNIFORMED LAW ENFORCEMENT OFFICER OR FLAGGER SHALL BE PROVIDED AT THE CROSSING TO PREVENT VEHICLES FROM STOPPING ON THE TRACKS, EVEN IF AUTOMATIC WARNING DEVICES ARE IN PLACE.

ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
PLAN AND PROFILE- PALATINE RD.
STA 217+00 TO STA 232+00

MAY 10, 2009

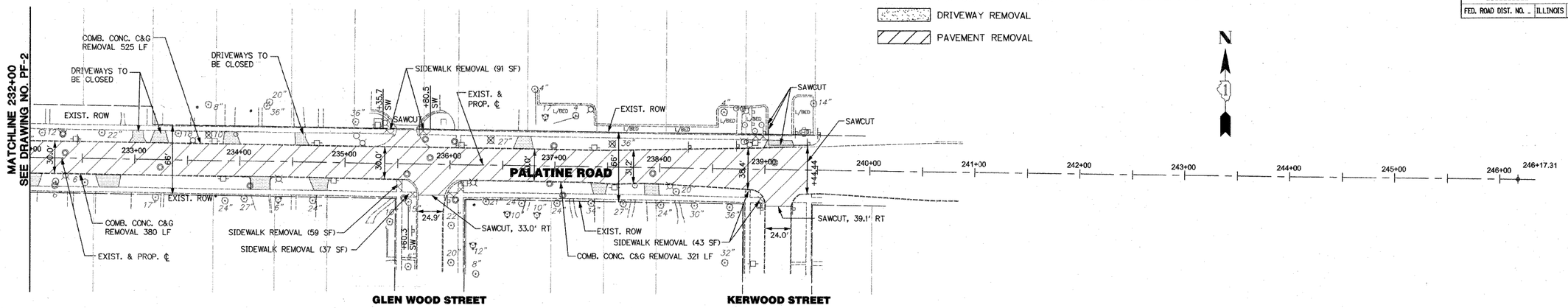
PLAN: SURVEYED, PLOTTED, DRAWN, CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, DRAWN, CHECKED, B.M. NOTED, STRUCTURE NO., EXISTING GROUND

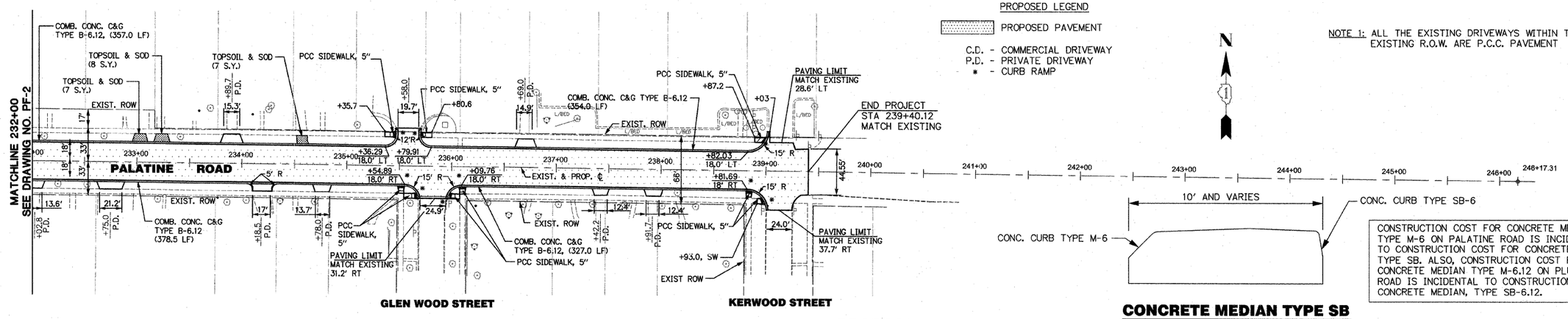
CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	27
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / R/T OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE



EXISTING CONDITIONS



NOTE 1: ALL THE EXISTING DRIVEWAYS WITHIN THE EXISTING R.O.W. ARE P.C.C. PAVEMENT

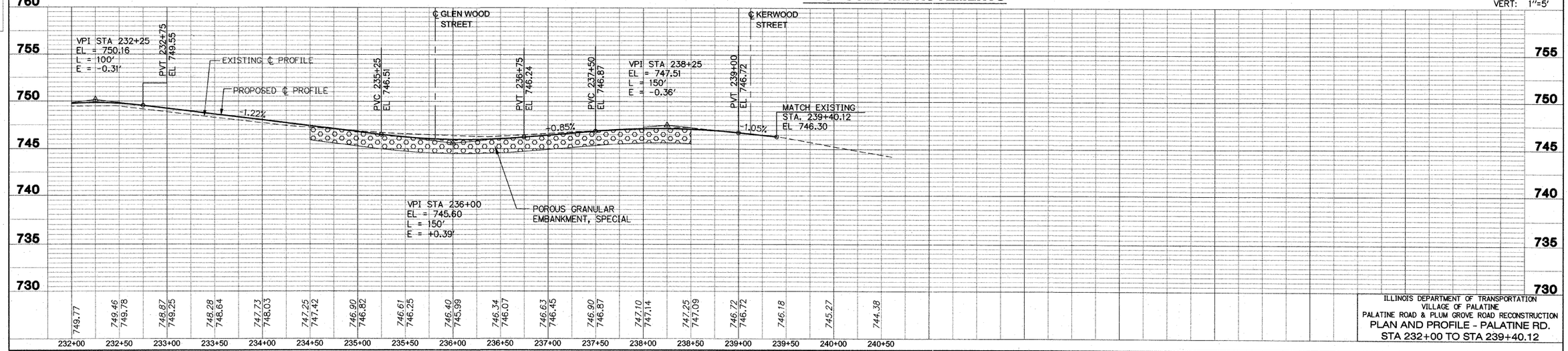
CONSTRUCTION COST FOR CONCRETE MEDIAN TYPE M-6 ON PALATINE ROAD IS INCIDENTAL TO CONSTRUCTION COST FOR CONCRETE MEDIAN, TYPE SB. ALSO, CONSTRUCTION COST FOR CONCRETE MEDIAN TYPE M-6.12 ON PLUM GROVE ROAD IS INCIDENTAL TO CONSTRUCTION COST FOR CONCRETE MEDIAN, TYPE SB-6.12.

CONCRETE MEDIAN TYPE SB

PROPOSED IMPROVEMENTS

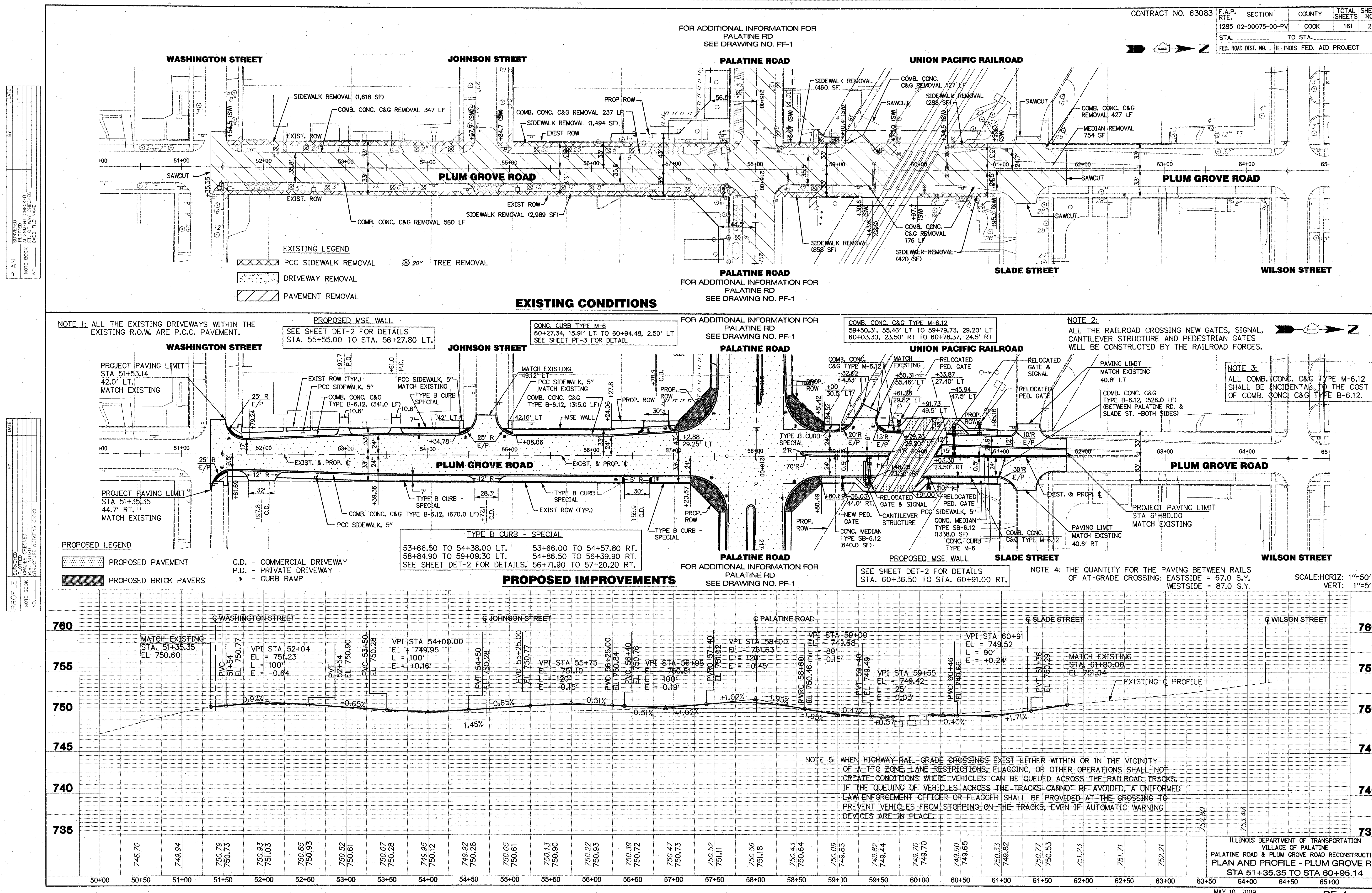
PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NO. / NOTE BOOK / NO. / BY / DATE

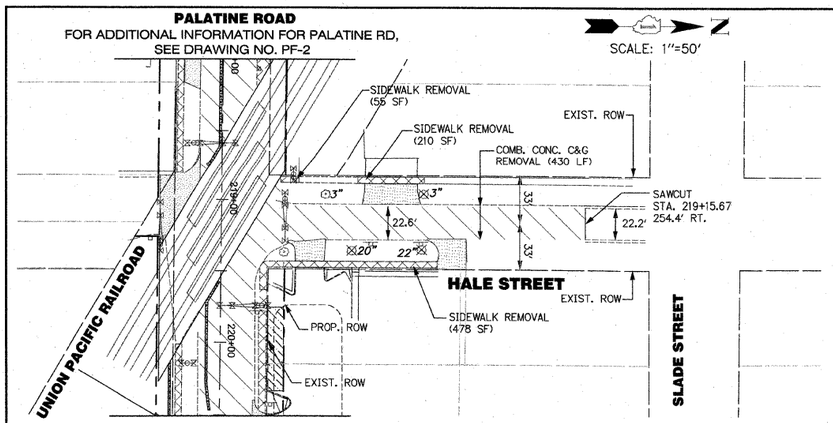
SCALE: HORIZ: 1"=50'
VERT: 1"=5'



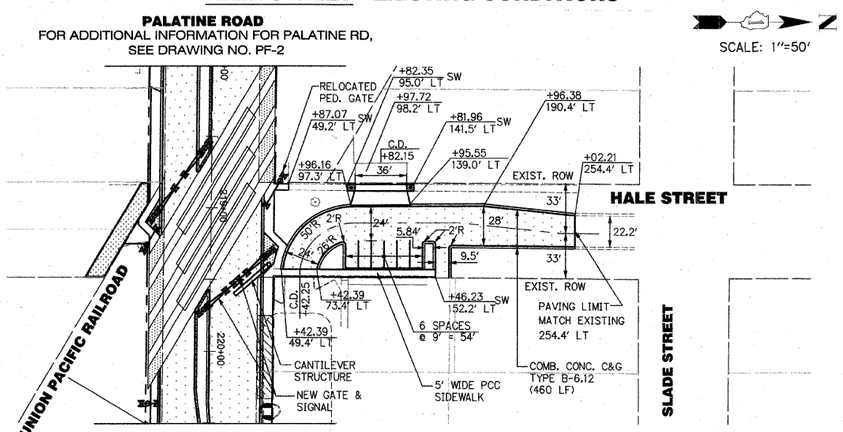
ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
PLAN AND PROFILE - PALATINE RD.
STA 232+00 TO STA 239+40.12

MAY 10, 2009

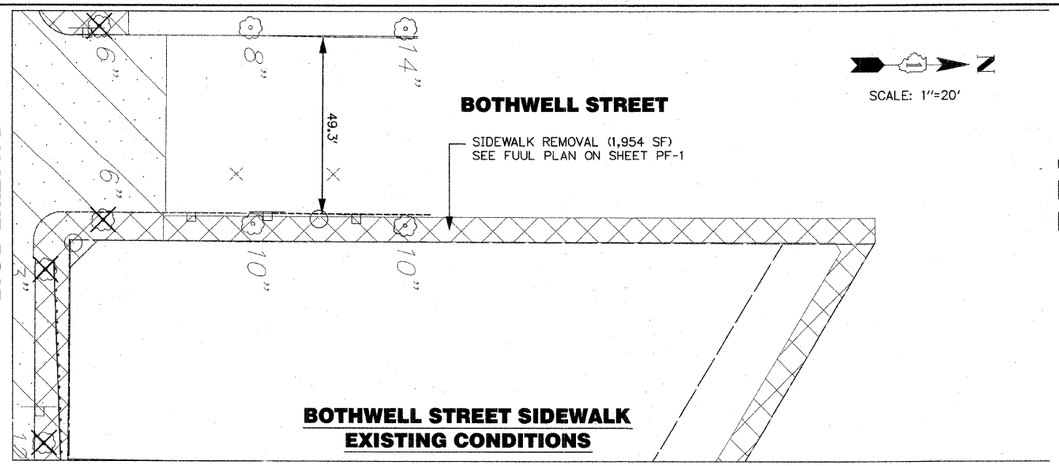

CONTRACT NO. 63083
F.A.P. RTE. 1285 | SECTION 02-00075-00-PV | COUNTY COOK | TOTAL SHEETS 161 | SHEET NO. 28
STA. ________ TO STA.________
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT
FOR ADDITIONAL INFORMATION FOR PALATINE RD SEE DRAWING NO. PF-1
WASHINGTON STREET
JOHNSON STREET
PALATINE ROAD
UNION PACIFIC RAILROAD
SLADE STREET
WILSON STREET
PLUM GROVE ROAD
SIDEWALK REMOVAL (1,618 SF)
COMB. CONC. C&G REMOVAL 347 LF
COMB. CONC. C&G REMOVAL 237 LF
SIDEWALK REMOVAL (1,494 SF)
EXIST ROW
PROP ROW
SIDEWALK REMOVAL (460 SF)
COMB. CONC. C&G REMOVAL 127 LF
SIDEWALK REMOVAL (288 SF)
SAWCUT
COMB. CONC. C&G REMOVAL 427 LF
MEDIAN REMOVAL 754 SF
COMB. CONC. C&G REMOVAL 560 LF
SIDEWALK REMOVAL (2,989 SF)
SIDEWALK REMOVAL (858 SF)
COMB. CONC. C&G REMOVAL 176 LF
SIDEWALK REMOVAL (420 SF)
EXISTING LEGEND
PCC SIDEWALK REMOVAL
20" TREE REMOVAL
DRIVEWAY REMOVAL
PAVEMENT REMOVAL
EXISTING CONDITIONS
NOTE 1: ALL THE EXISTING DRIVEWAYS WITHIN THE EXISTING R.O.W. ARE P.C.C. PAVEMENT.
PROPOSED MSE WALL
SEE SHEET DET-2 FOR DETAILS STA. 55+55.00 TO STA. 56+27.80 LT.
CONC. CURB TYPE M-6
60+27.34, 15.91' LT TO 60+94.48, 2.50' LT
SEE SHEET PF-3 FOR DETAIL
COMB. CONC. C&G TYPE M-6.12
59+50.31, 55.46' LT TO 59+79.73, 29.20' LT
60+03.30, 23.50' RT TO 60+78.37, 24.5' RT
NOTE 2: ALL THE RAILROAD CROSSING NEW GATES, SIGNAL, CANTILEVER STRUCTURE AND PEDESTRIAN GATES WILL BE CONSTRUCTED BY THE RAILROAD FORCES.
NOTE 3: ALL COMB. CONC. C&G TYPE M-6.12 SHALL BE INCIDENTAL TO THE COST OF COMB. CONC. C&G TYPE B-6.12.
PROJECT PAVING LIMIT STA 51+53.14 42.0' LT. MATCH EXISTING
PROJECT PAVING LIMIT STA 51+35.35 44.7' RT. MATCH EXISTING
PCC SIDEWALK, 5"
COMB. CONC. C&G TYPE B-6.12, (341.0 LF)
PCC SIDEWALK, 5" MATCH EXISTING
TYPE B CURB SPECIAL
MATCH EXISTING 49.12' LT
COMB. CONC. C&G TYPE B-6.12, (315.0 LF)
MSE WALL
PROP. ROW
EXIST. & PROP. ℄
COMB. CONC. C&G TYPE B-6.12, (670.0 LF)
EXIST ROW (TYP.)
RELOCATED PED. GATE
RELOCATED GATE & SIGNAL
NEW PED. GATE
CANTILEVER STRUCTURE
CONC. MEDIAN TYPE SB-6.12 (640.0 SF)
CONC. MEDIAN TYPE SB-6.12 (1338.0 SF)
CONC. CURB TYPE M-6
PAVING LIMIT MATCH EXISTING 40.8' LT
COMB. CONC. C&G TYPE B-6.12, (526.0 LF) (BETWEEN PALATINE RD. & SLADE ST. -BOTH SIDES)
PROJECT PAVING LIMIT STA 61+80.00 MATCH EXISTING
PAVING LIMIT MATCH EXISTING 40.6' RT
PROPOSED LEGEND
PROPOSED PAVEMENT
PROPOSED BRICK PAVERS
C.D. - COMMERCIAL DRIVEWAY
P.D. - PRIVATE DRIVEWAY
* - CURB RAMP
TYPE B CURB - SPECIAL
53+66.50 TO 54+38.00 LT. 53+66.00 TO 54+57.80 RT.
58+84.90 TO 59+09.30 LT. 54+86.50 TO 56+39.90 RT.
SEE SHEET DET-2 FOR DETAILS. 56+71.90 TO 57+20.20 RT.
PROPOSED IMPROVEMENTS
PROPOSED MSE WALL
SEE SHEET DET-2 FOR DETAILS STA. 60+36.50 TO STA. 60+91.00 RT.
NOTE 4: THE QUANTITY FOR THE PAVING BETWEEN RAILS OF AT-GRADE CROSSING: EASTSIDE = 67.0 S.Y. WESTSIDE = 87.0 S.Y.
SCALE:HORIZ: 1"=50' VERT: 1"=5'
MATCH EXISTING STA. 51+35.35 EL 750.60
VPI STA 52+04 EL = 751.23 L = 100' E = -0.64
VPI STA 54+00.00 EL = 749.95 L = 100' E = +0.16'
VPI STA 55+75 EL = 751.10 L = 120' E = -0.15'
VPI STA 56+95 EL = 750.51 L = 100' E = 0.19'
VPI STA 58+00 EL = 751.63 L = 120' E = -0.45'
VPI STA 59+00 EL = 749.68 L = 80' E = 0.15'
VPI STA 59+55 EL = 749.42 L = 25' E = 0.03'
VPI STA 60+91 EL = 749.52 L = 90' E = +0.24'
MATCH EXISTING STA. 61+80.00 EL 751.04
EXISTING ℄ PROFILE
NOTE 5: WHEN HIGHWAY-RAIL GRADE CROSSINGS EXIST EITHER WITHIN OR IN THE VICINITY OF A TTC ZONE, LANE RESTRICTIONS, FLAGGING, OR OTHER OPERATIONS SHALL NOT CREATE CONDITIONS WHERE VEHICLES CAN BE QUEUED ACROSS THE RAILROAD TRACKS. IF THE QUEUING OF VEHICLES ACROSS THE TRACKS CANNOT BE AVOIDED, A UNIFORMED LAW ENFORCEMENT OFFICER OR FLAGGER SHALL BE PROVIDED AT THE CROSSING TO PREVENT VEHICLES FROM STOPPING ON THE TRACKS, EVEN IF AUTOMATIC WARNING DEVICES ARE IN PLACE.
ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
PLAN AND PROFILE - PLUM GROVE RD
STA 51+35.35 TO STA 60+95.14
MAY 10, 2009
PF-4



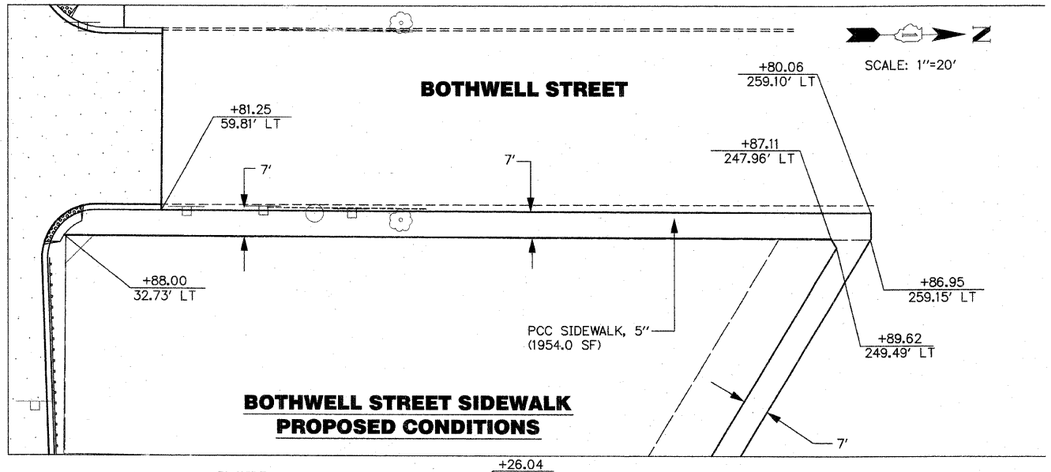
HALE STREET - EXISTING CONDITIONS



HALE STREET - PROPOSED IMPROVEMENTS



BOTHWELL STREET SIDEWALK EXISTING CONDITIONS



BOTHWELL STREET SIDEWALK PROPOSED CONDITIONS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	29
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083

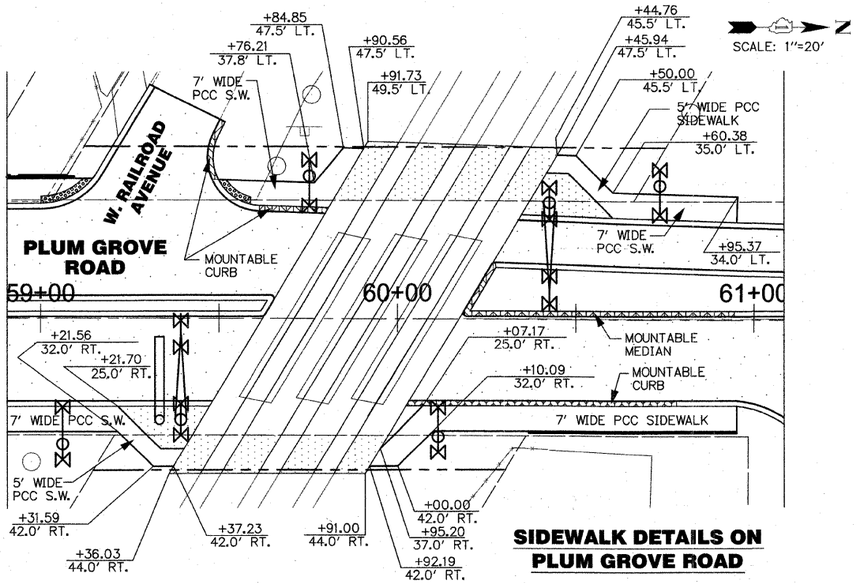
EXISTING LEGEND

- PCC SIDEWALK REMOVAL
- DRIVEWAY REMOVAL
- PAVEMENT REMOVAL
- ⊠ 20" TREE REMOVAL

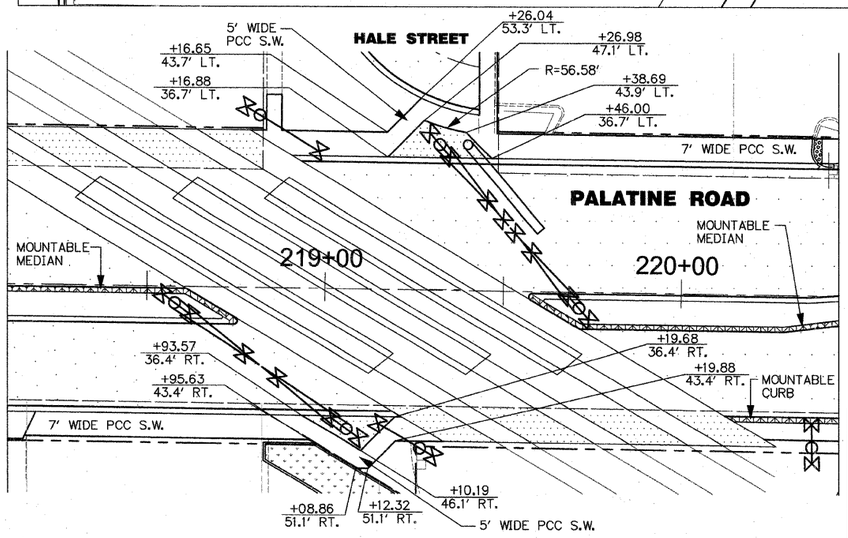
PROPOSED LEGEND

- PROPOSED PAVEMENT

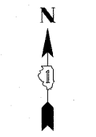
C.D. - COMMERCIAL DRIVEWAY
P.D. - PRIVATE DRIVEWAY
* - CURB RAMP



SIDEWALK DETAILS ON PLUM GROVE ROAD



SIDEWALK DETAILS ON PALATINE ROAD



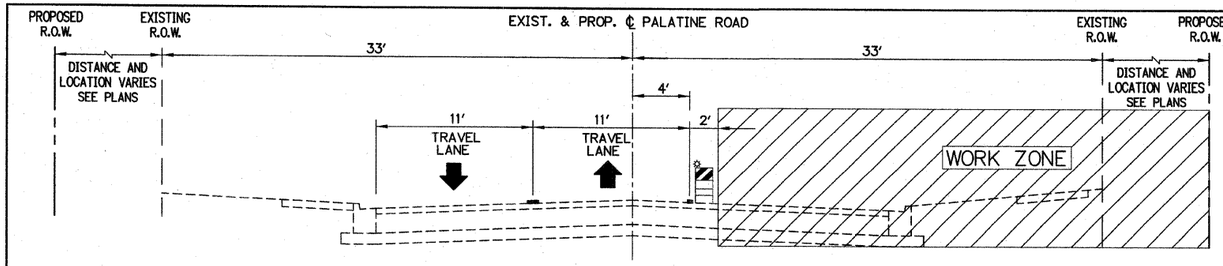
REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

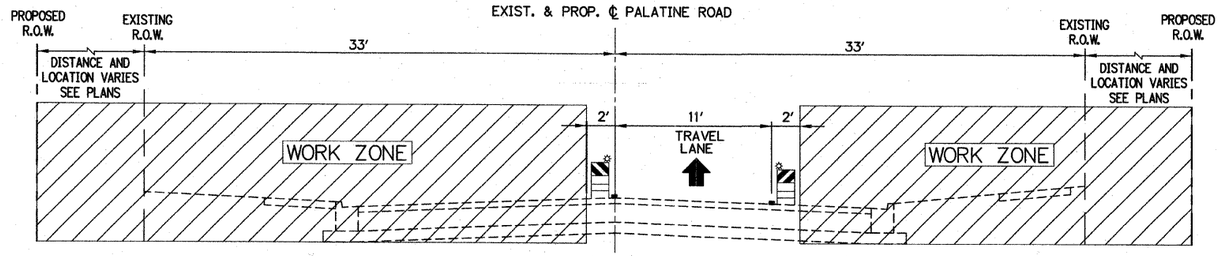
PLAN - HALE STREET & SIDEWALK DETAILS

SCALE: VERT.
HORIZ.
DRAWN BY BA
DATE OCTOBER 19, 2009
CHECKED BY



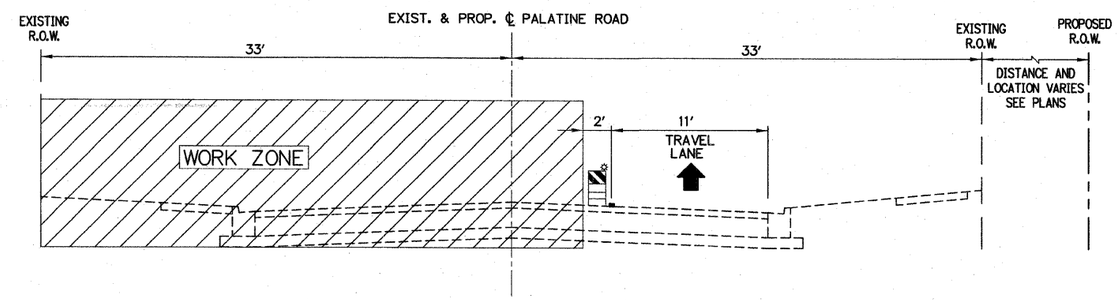
STA. 203+00.00 TO STA. 215+90.00

PALATINE ROAD - S T A G E I



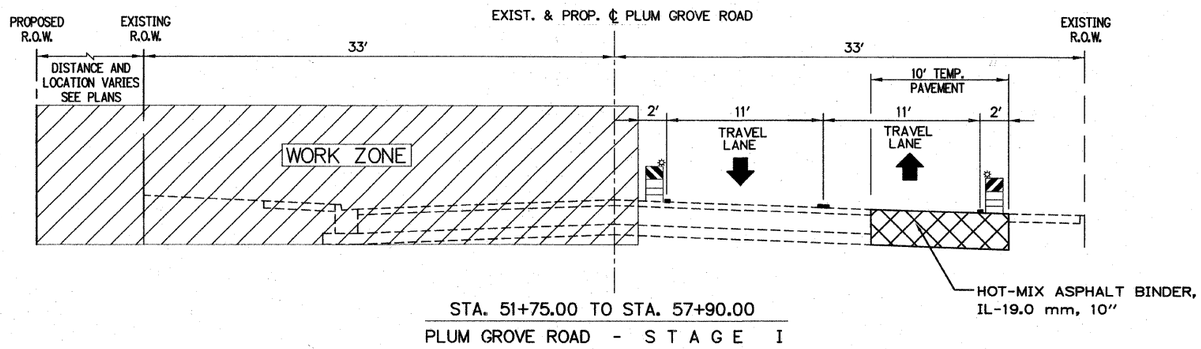
STA. 216+25.00 TO STA. 222+30.00

PALATINE ROAD - S T A G E I



STA. 222+75.00 TO STA. 239+03.00

PALATINE ROAD - S T A G E I



STA. 51+75.00 TO STA. 57+90.00

PLUM GROVE ROAD - S T A G E I

TRAFFIC STAGING SEQUENCE NOTES

PALATINE ROAD
SMITH STREET TO KERWOOD STREET

PLUM GROVE ROAD
WASHINGTON STREET TO SLADE STREET

DETOUR FOR THE PROJECT:

- CONTRACTOR SHALL IMPLEMENT THE DETOUR ROUTE AND AS PERTINANT SIGNAGE FOR THE WESTBOUND TRAFFIC PRIOR TO START OF STAGE ONE CONSTRUCTION.

PRE-STAGE ON PLUM GROVE ROAD SOUTH LEG:

- RELOCATE ALL UTILITY POLES TO THE BACK OF R.O.W.
- RELOCATE/REMOVE LIGHT POLES, RETAINING WALLS AND SIGN POSTS.
- REMOVE EXISTING CURB AND CURB & GUTTER.
- CONSTRUCT 10′ WIDE TEMPORARY PAVEMENT FROM STA. 51+40 TO STA. 57+80 ON THE EAST SIDE OF PLUM GROVE ROAD.

S T A G E I

PALATINE ROAD

- SHIFT TRAFFIC TO THE NORTH SIDE OF PALATINE ROAD
- MAINTAIN ONE 11 FEET LANES IN EACH DIRECTION FROM THE BEGINNING OF THE PROJECT TO PLUM GROVE ROAD.
- IMPLEMENT ONE-WAY TRAFFIC EASTBOUND ON PALATINE ROAD. THE WESTBOUND TRAFFIC WILL BE DETOURED AS SHOWN ON PLAN SHEET MT-7.
- CONSTRUCT CURB AND GUTTER ON EASTBOUND LANE
- CONSTRUCT MAIN LINE STORM SEWER & WATER MAIN
- RECONSTRUCT SIDE STREETS INCLUDING CURB AND GUTTER. SUB-STAGING WILL BE REQUIRED. THE CONTRACTOR SHALL KEEP A MINIMUM OF ONE LANE OPEN AT ALL TIMES.

S T A G E I

PLUM GROVE ROAD SOUTH LEG:

- SHIFT TRAFFIC ONTO TEMPORARY PAVEMENT ON THE EAST SIDE OF PLUM GROVE ROAD AND MAINTAIN TWO 11-FOOT LANES IN EACH DIRECTION.
- RECONSTRUCT PAVEMENT ON THE WEST SIDE PLUM GROVE ROAD
- CONSTRUCT CURB AND GUTTER ON WEST SIDE OF THE ROAD.
- CONSTRUCT MAIN LINE STORM SEWER & WATER MAIN
- RECONSTRUCT SIDE STREETS INCLUDING CURB AND GUTTER. SUB-STAGING WILL BE REQUIRED. THE CONTRACTOR SHALL KEEP A MINIMUM OF ONE LANE OPEN AT ALL TIMES.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	30
STA. _____	TO STA._____			
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. TRAFFIC CONTROL SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE APPLICABLE HIGHWAY STANDARDS OR AS HEREIN SPECIFIED.

2. THE WORK ZONE WILL BE DELINEATED AT ALL TIMES THROUGHOUT CONSTRUCTION BY TYPE II BARRICADES WITH MONODIRECTIONAL STEADY BURN LIGHTS. THE BARRICADES SHALL BE PLACED AT 50 FEET CENTERS. BARRICADES THAT MUST BE PLACED IN EXCAVATED AREAS SHALL HAVE LEG EXTENSIONS INSTALLED SUCH THAT THE TOP OF THE BARRICADE IS IN COMPLIANCE WITH THE HEIGHT REQUIREMENTS OF STANDARD 701901.

3. OPPOSING LANES OF TRAFFIC WILL BE DELINEATED AT ALL TIMES THROUGHOUT CONSTRUCTION BY TWO 4 INCHES YELLOW TEMPORARY PAVEMENT MARKING LINES AT 11 INCHES CENTERS.

4. THE COST OF FURNISHING, INSTALLING, MAINTAINING, RELOCATING AND REMOVING ALL TRAFFIC CONTROL DEVICES INCLUDING BUT NOT LIMITED TO: BARRICADES, VERTICAL PANELS, FLEXIBLE DELINEATORS, CONSTRUCTION SIGNS, WARNING LIGHTS, FLAGMEN, AND ALL OTHER MISCELLANEOUS DEVICES USED FOR THE PURPOSE OF RELOCATING OR DIRECTING TRAFFIC DURING CONSTRUCTION OF THIS IMPROVEMENT WILL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).

5. WHERE PROVIDED, EXISTING TRAFFIC SIGNS SHALL BE RELOCATED FOR EACH CONSTRUCTION STAGE.

6. ACCESS TO DRIVEWAYS AND SIDE ROADS IS TO BE MAINTAINED DURING CONSTRUCTION. ANY DELAYS OR INCONVENIENCE CAUSED BY THE CONTRACTOR BY COMPLYING WITH THESE REQUIREMENTS SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

7. ALL APPLICABLE PORTIONS OF TRAFFIC CONTROL STANDARDS 701301, 701311, 701501, 701502, 701601, 701602, 701606, 701701, 701801, 701901 AND IDOT DISTRICT ONE STANDARDS TC-10 AND TC-16 SHALL APPLY DURING ALL STAGES AND ALL SUB STAGES THAT ARE NOT SPECIFIED.

8. A SINGLE LANE CLOSURE WITH FLAGMEN AT WORK ZONES WILL ONLY BE ALLOWED BETWEEN 9:00AM AND 3:00 PM.

REVISIONS	
NAME	DATE

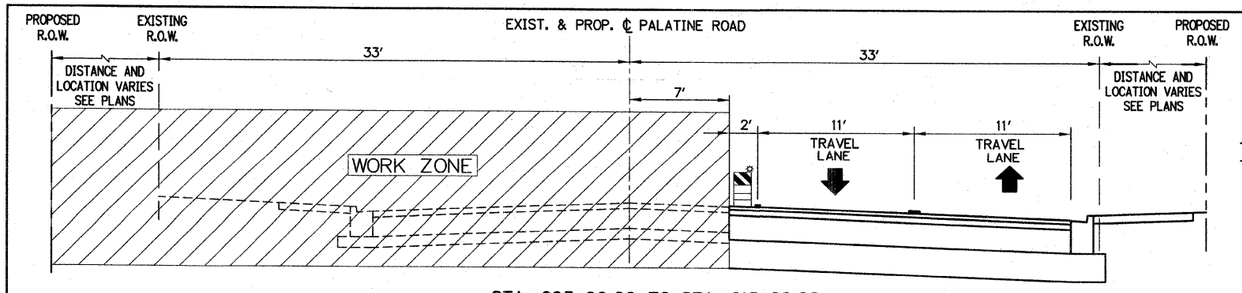
ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

PALATINE ROAD & PLUM GROVE ROAD
MAINTENANCE OF TRAFFIC SECTION
STAGE I

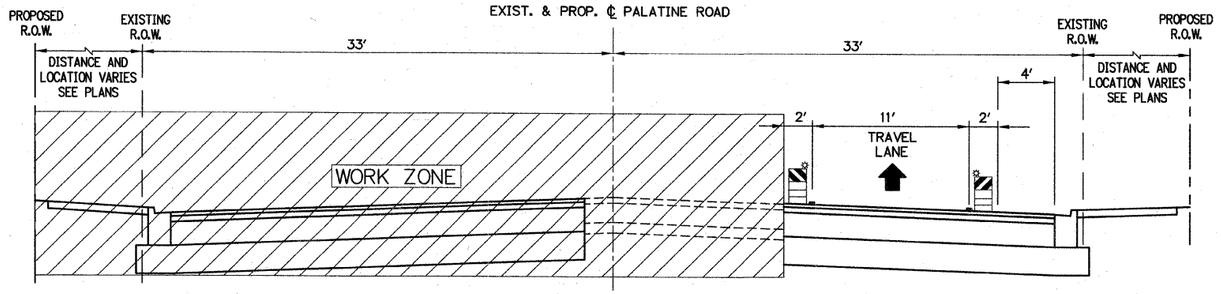
SCALE: VERT. N.T.S. HORIZ. N.T.S.
DATE OCTOBER 19, 2009
DRAWN BY JPW
CHECKED BY BA

MT-1



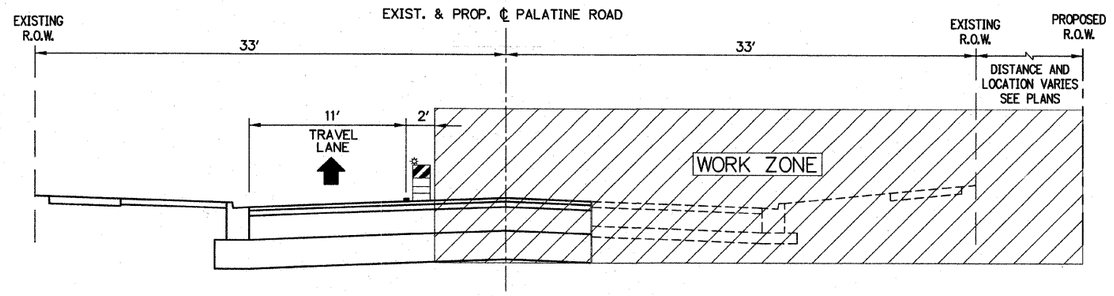
STA. 203+00.00 TO STA. 215+90.00

PALATINE ROAD - S T A G E I I



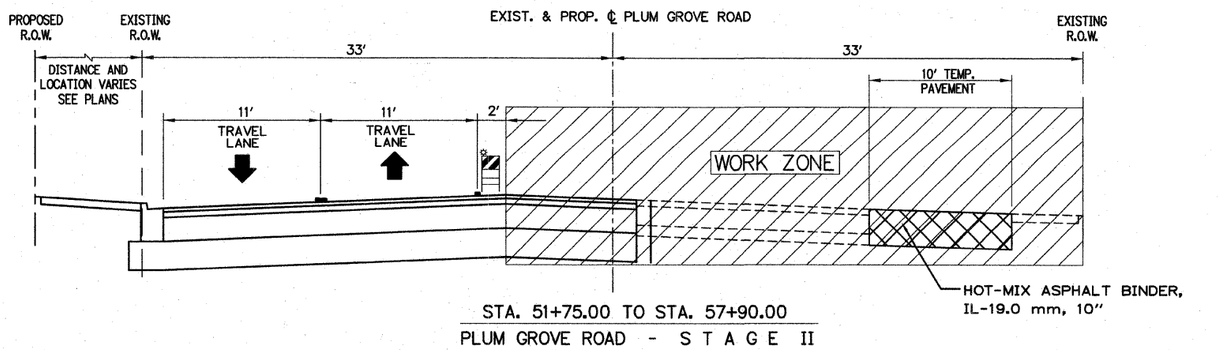
STA. 216+25.00 TO STA. 222+30.00

PALATINE ROAD - S T A G E I I



STA. 222+75.00 TO STA. 239+03.00

PALATINE ROAD - S T A G E I I



STA. 51+75.00 TO STA. 57+90.00

PLUM GROVE ROAD - S T A G E II

TRAFFIC STAGING SEQUENCE NOTES

PALATINE ROAD
SMITH STREET TO KERWOOD STREET

PLUM GROVE ROAD
WASHINGTON STREET TO SLADE STREET

PRE-STAGE ON PLUM GROVE ROAD NORTH LEG:

- CLOSE NORTH LEG OF PLUM GROVE ROAD FROM PALATINE ROAD TO SOUTH OF SLADE STREET FOR THE DURATION SPECIFIED BY THE UNION PACIFIC RAILROAD ATHORITIES. THE SOUTHBOUND TRAFFIC ON PLUM GROVE ROAD WILL BE DETOURED AS SHOWN ON PLAN SHEET MT-8.

S T A G E I I

PALATINE ROAD

- SHIFT TRAFFIC TO THE SOUTH SIDE OF PALATINE ROAD
- MAINTAIN ONE 11 FEET LANES IN EACH DIRECTION FROM THE BEGINNING OF THE PROJECT TO PLUM GROVE ROAD.
- IMPLEMENT ONE-WAY TRAFFIC EASTBOUND ON PALATINE ROAD FROM EDGE OF PLUM GROVE ROAD. THE WESTBOUND TRAFFIC WILL BE DETOURED AS SHOWN ON PLAN SHEET MT-7.
- CONSTRUCT CURB AND GUTTER ON WESTBOUND LANE
- COMPLETE MAIN LINE STORM SEWER & WATER MAIN
- RECONSTRUCT SIDE STREETS INCLUDING CURB AND GUTTER. SUB-STAGING WILL BE REQUIRED. THE CONTRACTOR SHALL KEEP A MINIMUM OF ONE LANE OPEN AT ALL TIMES.

S T A G E I I

PLUM GROVE ROAD SOUTH LEG:

- SHIFT TRAFFIC ONTO NEWLY CONSTRUCTED PAVEMENT ON THE WEST SIDE OF PLUM GROVE ROAD AND MAINTAIN TWO 11-FOOT LANES IN EACH DIRECTION.
- RECONSTRUCT PAVEMENT ON THE EAST SIDE PLUM GROVE ROAD
- CONSTRUCT CURB AND GUTTER ON EAST SIDE OF THE ROAD.
- COMPLETE MAIN LINE STORM SEWER & WATER MAIN
- RECONSTRUCT SIDE STREETS INCLUDING CURB AND GUTTER. SUB-STAGING WILL BE REQUIRED. THE CONTRACTOR SHALL KEEP A MINIMUM OF ONE LANE OPEN AT ALL TIMES.

S T A G E I I I (NO PLANS HAVE BEEN SHOWN)

PALATINE ROAD & PLUM GROVE ROAD

STAGE III CONSTRUCTION WILL ONLY BE APPLICABLE TO PALATINE ROAD FROM STA. 203+00.00 TO STA. 215+90.00

ALL THE OTHER PORTIONS OF THE PALATINE ROAD AND THE PLUM GROVE ROAD WILL BE COMPLETED UNDER STAGE II CONSTRUCTIONS. SEE STAGE II TYPICAL SECTIONS ON THIS SHEET.

- SHIFT TRAFFIC TO THE NEWLY CONSTRUCTED OUTSIDE LANES OF PALATINE ROAD.
- MAINTAIN ONE 12 FEET LANE IN EACH DIRECTION.
- CONSTRUCT THE MEDIAN FROM STA. 214+40 TO STA. 215+22
- COMPLETE STORM SEWER LATERAL CONNECTIONS.
- COMPLETE PAVEMENT AND LEFT-TURN LANES UTILIZING STANDARDS 701502-02 AND 701606-03.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	31
STA. _____	TO STA._____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. TRAFFIC CONTROL SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE APPLICABLE HIGHWAY STANDARDS OR AS HEREIN SPECIFIED.

2. THE WORK ZONE WILL BE DELINEATED AT ALL TIMES THROUGHOUT CONSTRUCTION BY TYPE II BARRICADES WITH MONODIRECTIONAL STEADY BURN LIGHTS. THE BARRICADES SHALL BE PLACED AT 50 FEET CENTERS. BARRICADES THAT MUST BE PLACED IN EXCAVATED AREAS SHALL HAVE LEG EXTENSIONS INSTALLED SUCH THAT THE TOP OF THE BARRICADE IS IN COMPLIANCE WITH THE HEIGHT REQUIREMENTS OF STANDARD 701901.

3. OPPOSING LANES OF TRAFFIC WILL BE DELINEATED AT ALL TIMES THROUGHOUT CONSTRUCTION BY TWO 4 INCHES YELLOW TEMPORARY PAVEMENT MARKING LINES AT 11 INCHES CENTERS.

4. THE COST OF FURNISHING, INSTALLING, MAINTAINING, RELOCATING AND REMOVING ALL TRAFFIC CONTROL DEVICES INCLUDING BUT NOT LIMITED TO: BARRICADES, VERTICAL PANELS, FLEXIBLE DELINEATORS, CONSTRUCTION SIGNS, WARNING LIGHTS, FLAGMEN, AND ALL OTHER MISCELLANEOUS DEVICES USED FOR THE PURPOSE OF RELOCATING OR DIRECTING TRAFFIC DURING CONSTRUCTION OF THIS IMPROVEMENT WILL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).

5. WHERE PROVIDED, EXISTING TRAFFIC SIGNS SHALL BE RELOCATED FOR EACH CONSTRUCTION STAGE.

6. ACCESS TO DRIVEWAYS AND SIDE ROADS IS TO BE MAINTAINED DURING CONSTRUCTION. ANY DELAYS OR INCONVENIENCE CAUSED BY THE CONTRACTOR BY COMPLYING WITH THESE REQUIREMENTS SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

7. ALL APPLICABLE PORTIONS OF TRAFFIC CONTROL STANDARDS 701301, 701311, 701501, 701502, 701601, 701602, 701606, 701701, 701801, 701901 AND IDOT DISTRICT ONE STANDARDS TC-10 AND TC-16 SHALL APPLY DURING ALL STAGES AND ALL SUB STAGES THAT ARE NOT SPECIFIED.

8. A SINGLE LANE CLOSURE WITH FLAGMEN AT WORK ZONES WILL ONLY BE ALLOWED BETWEEN 9:00AM AND 3:00 PM.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

PALATINE ROAD & PLUM GROVE ROAD
MAINTENANCE OF TRAFFIC
STAGE II

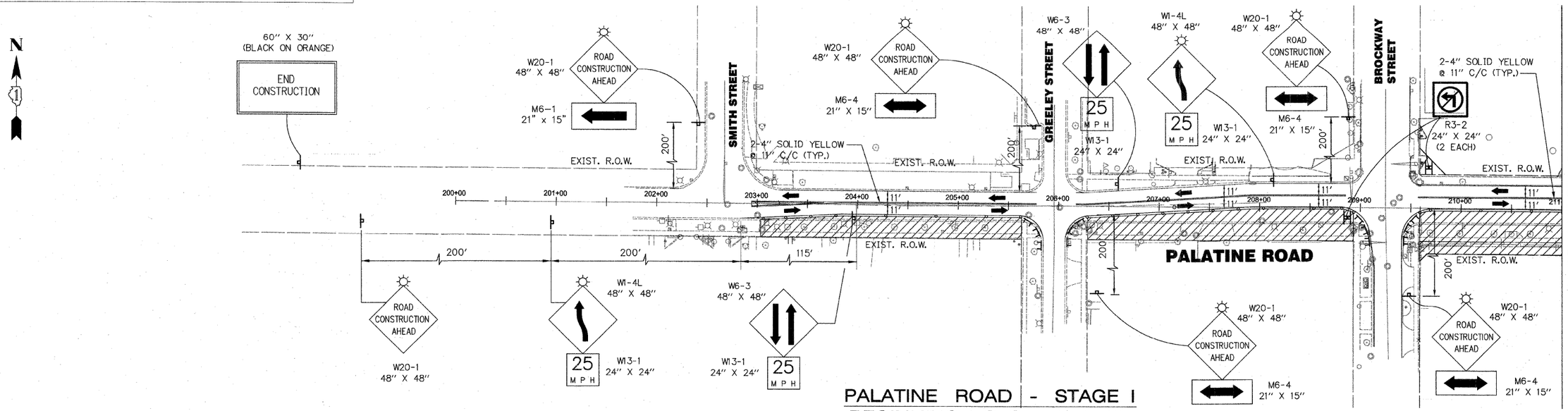
SCALE: VERT. N.T.S. HORIZ. N.T.S. DRAWN BY J.P.W.
DATE OCTOBER 19, 2009 CHECKED BY BA

1. THE COST OF TEMPORARY PAVEMENT MARKING FOR STAGE I CONSTRUCTION IS INCLUDED IN THE COST OF "TRAFFIC CONTROL & PROTECTION (SPECIAL)".

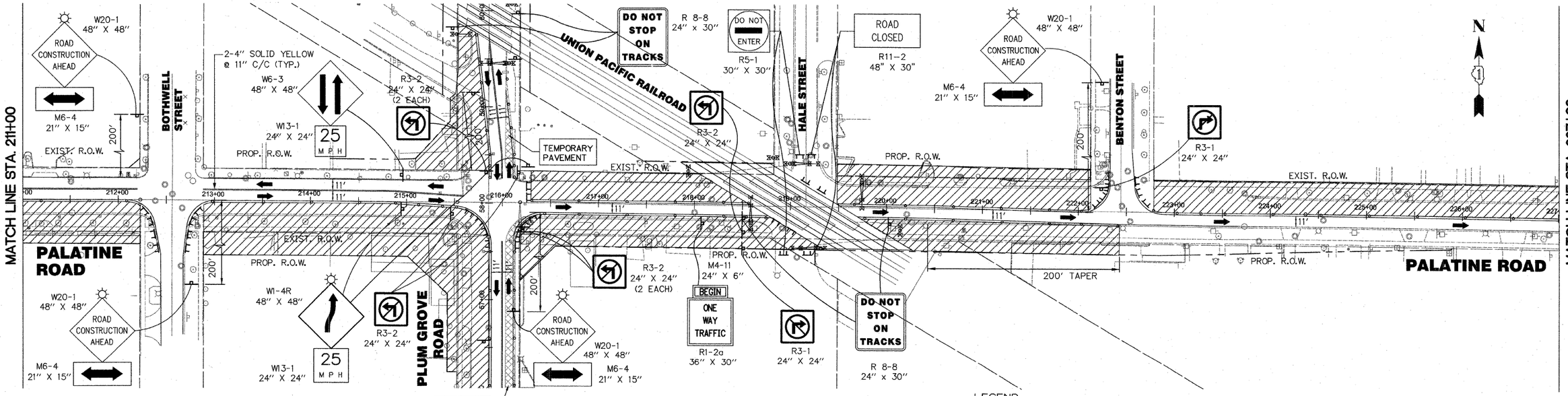
2. PLACE ONE-WAY SIGN (R6-2) EASTBOUND AT ALL DRIVEWAYS AND CROSS ROADS EAST OF PLUM GROVE ROAD TO KERWOOD AVENUE.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	32
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083



PALATINE ROAD - STAGE I
BEGINNING TO STA. 211+00



PALATINE ROAD - STAGE I
STA. 211+00 TO STA. 227+00

PRESTAGE

. RELOCATE ALL UTILITY POLES TO THE BACK OF R.O.W.

. RELOCATE/REMOVE LIGHT POLES, RETAINING WALLS AND SIGNS.

. REMOVE EXISTING CURB AND CURB AND GUTTER.

. CONSTRUCT 10' WIDE TEMPORARY PAVEMENT FROM STA. 51+40 TO STA. 57+80

LEGEND

- TEMPORARY TRAFFIC ADVISORY SIGN
- WORK AREA
- TYPE II BARRICADE WITH MONO-DIRECTIONAL STEADY BURN LIGHTS AT 50' CENTERS, 25' IN TAPERS AND 10' IN RADII (TYP.) SEE NOTE 1.
- TYPE III BARRICADE WITH LIGHT
- TRAFFIC LANE
- TEMPORARY PAVEMENT

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE

PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION

SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

PALATINE ROAD

MAINTENANCE OF TRAFFIC

STAGE I

SCALE: VERT. N.T.S. HORIZ. 1" = 50'

DRAWN BY JW

DATE OCTOBER 19, 2009

CHECKED BY BA

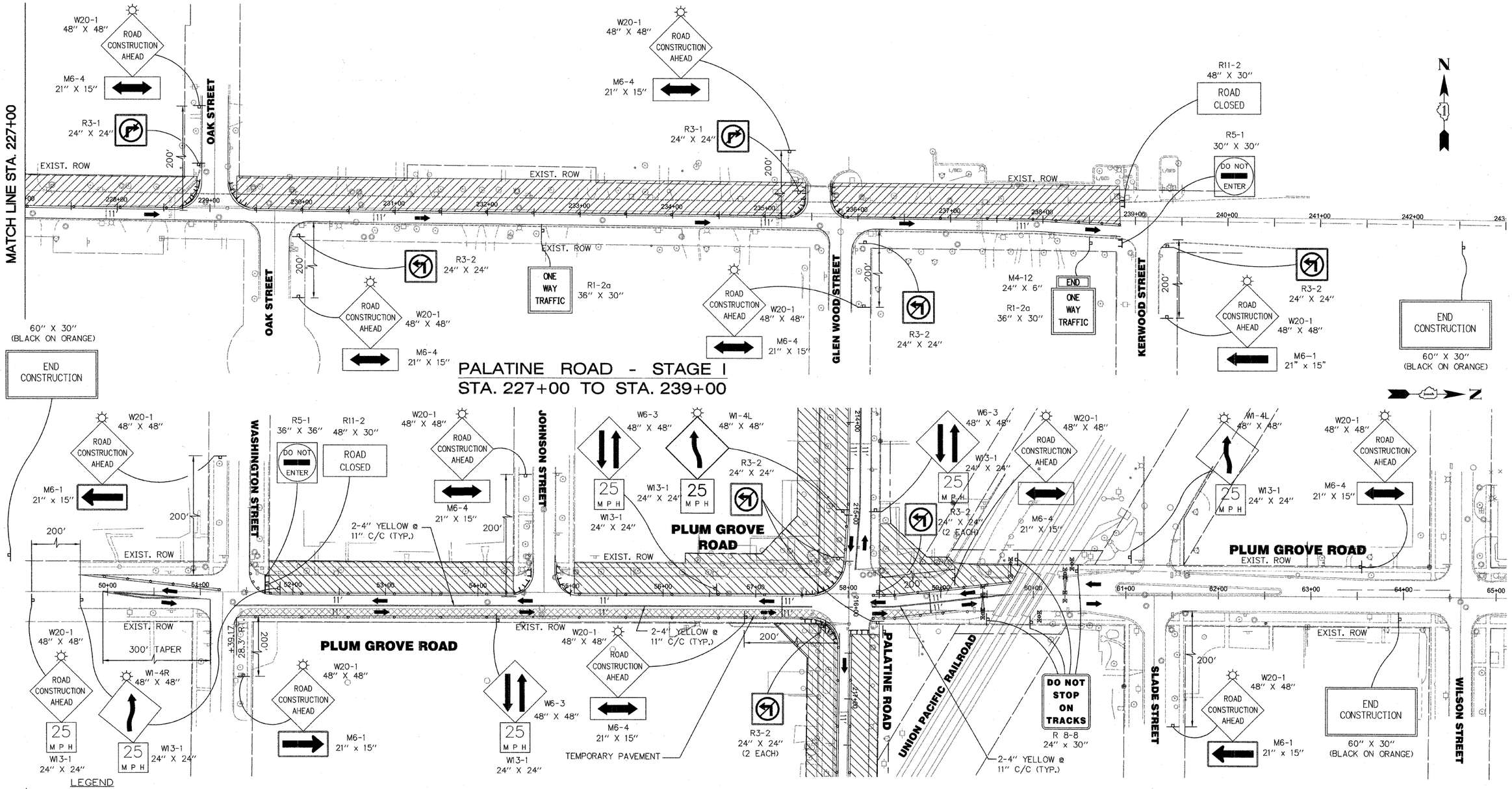
MT-3

1. THE COST OF TEMPORARY PAVEMENT MARKING FOR STAGE I CONSTRUCTION IS INCLUDED IN THE COST OF "TRAFFIC CONTROL & PROTECTION (SPECIAL)".

2. PLACE ONE-WAY SIGN (R6-2) EASTBOUND AT ALL DRIVEWAYS AND CROSS ROADS EAST OF PLUM GROVE ROAD TO KERWOOD AVENUE.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	33
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083



LEGEND

- TEMPORARY TRAFFIC ADVISORY SIGN
- WORK AREA
- TYPE II BARRICADE WITH MONO-DIRECTIONAL STEADY BURN LIGHTS AT 50' CENTERS, 25' IN TAPERS AND 10' IN RADII (TYP.)
- TYPE III BARRICADE WITH LIGHT
- TRAFFIC LANE
- TEMPORARY PAVEMENT

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE

PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

PALATINE ROAD & PLUM GROVE ROAD MAINTENANCE OF TRAFFIC STAGE I

SCALE: VERT. N.T.S. HORIZ. 1" = 50'

DRAWN BY ---

DATE OCTOBER 19, 2009

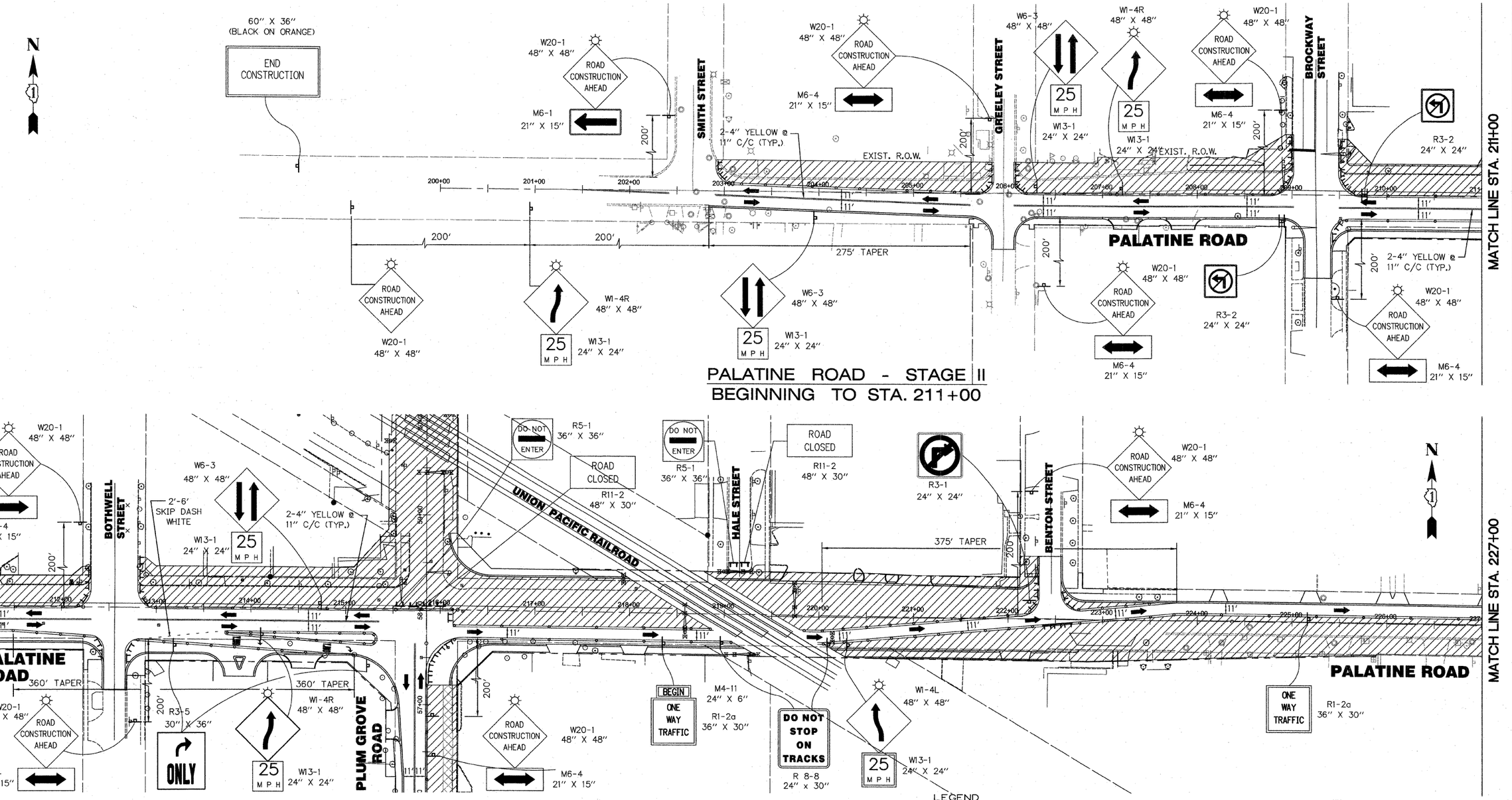
CHECKED BY BA

1. THE COST OF TEMPORARY PAVEMENT MARKING FOR STAGE I CONSTRUCTION IS INCLUDED IN THE COST OF "TRAFFIC CONTROL & PROTECTION (SPECIAL)".

2. PLACE ONE-WAY SIGN (R6-2) EASTBOUND AT ALL DRIVEWAYS AND CROSS ROADS EAST OF PLUM GROVE ROAD AND KERWOOD AVENUE.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	34
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083



PALATINE ROAD - STAGE II
BEGINNING TO STA. 211+00

PALATINE ROAD - STAGE II
STA. 211+00 TO STA. 227+00

LEGEND

- TEMPORARY TRAFFIC ADVISORY SIGN
- WORK AREA
- TYPE II BARRICADE WITH MONO-DIRECTIONAL STEADY BURN LIGHTS AT 50' CENTERS, 25' IN TAPERS AND 10' IN RADII (TYP.) SEE NOTE 1.
- TYPE III BARRICADE WITH LIGHT
- TRAFFIC LANE
- TEMPORARY PAVEMENT

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

PALATINE ROAD
MAINTENANCE OF TRAFFIC
STAGE II

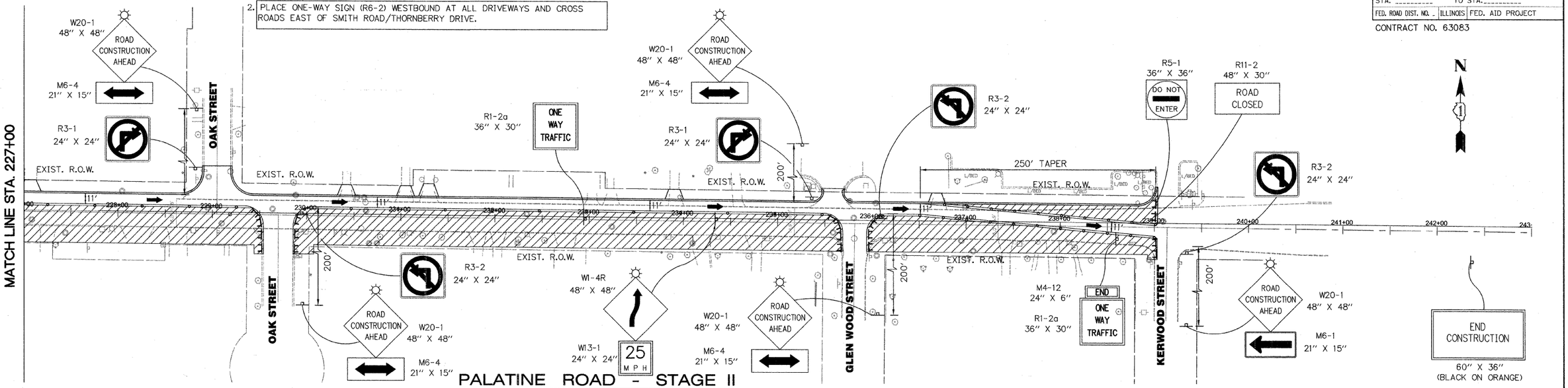
SCALE: VERT. N.T.S. HORIZ. 1" = 50'
DRAWN BY --
DATE OCTOBER 19, 2009
CHECKED BY BA

MT-5

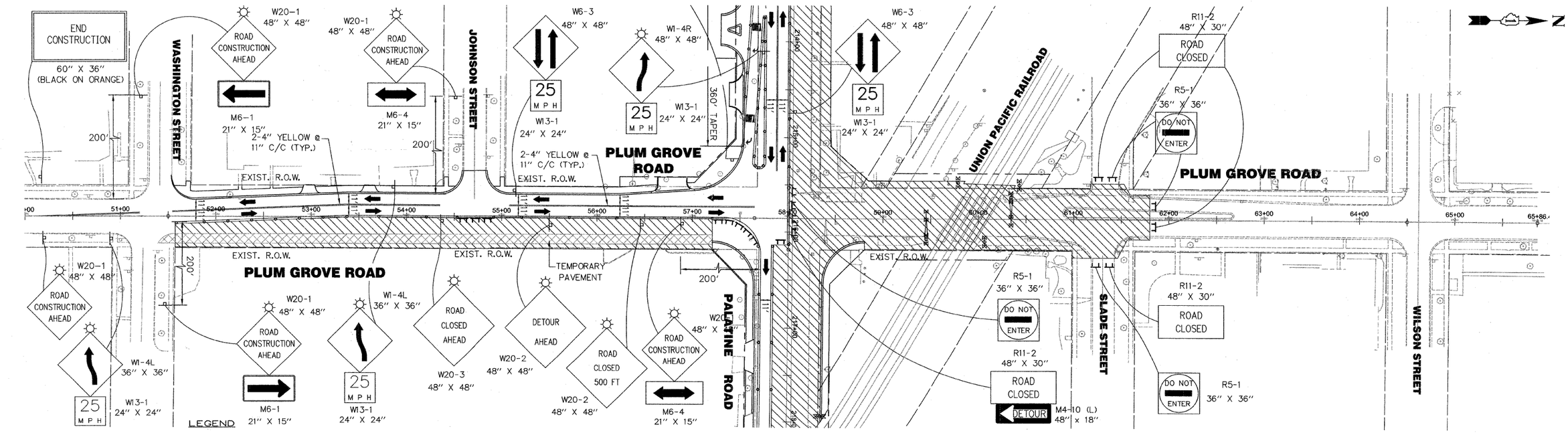
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	35
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083

1. THE COST OF TEMPORARY PAVEMENT MARKING FOR STAGE I CONSTRUCTION IS INCLUDED IN THE COST OF "TRAFFIC CONTROL & PROTECTION (SPECIAL)".
2. PLACE ONE-WAY SIGN (R6-2) WESTBOUND AT ALL DRIVEWAYS AND CROSS ROADS EAST OF SMITH ROAD/THORNBERRY DRIVE.



PALATINE ROAD - STAGE II
STA. 227+00 TO STA. 239+00



PLUM GROVE ROAD - STAGE II
STA. 51+50 TO STA. 61+25

LEGEND

- TEMPORARY TRAFFIC ADVISORY SIGN
- WORK AREA
- TYPE II BARRICADE WITH MONO-DIRECTIONAL STEADY BURN LIGHTS AT 50' CENTERS, 25' IN TAPERS AND 10' IN RADII (TYP.) SEE NOTE 1.
- TYPE III BARRICADE WITH LIGHT
- TRAFFIC LANE
- TEMPORARY PAVEMENT

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE

PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

PALATINE ROAD & PLUM GROVE ROAD
MAINTENANCE OF TRAFFIC
STAGE II

SCALE: VERT. N.T.S. HORIZ. 1" = 50'
DATE OCTOBER 19, 2009
DRAWN BY ---
CHECKED BY BA

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	36
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083

DETOUR PLAN NOTES:

1. DURING CONSTRUCTION OF PALATINE ROAD, THE ROAD WILL BE CLOSED FOR WEST BOUND TRAFFIC (FROM PLUM GROVE ROAD TO KERWOOD STREET) AND WILL BE DETOURED VIA NORTHWEST HIGHWAY (NORTH & WEST) AND QUENTIN ROAD (SOUTH) AS SHOWN IN THE DETOUR PLAN. WHILE THE EAST BOUND TRAFFIC WILL REMAIN OPEN.
2. DURING STAGE II CONSTRUCTION OF PLUM GROVE ROAD, THE NORTH LEG WILL BE CLOSED. THE SOUTHBOUND AND THE NORTHBOUND TRAFFIC CAN BE DETOURED VIA COLFAX STREET, SMITH STREET AND PALATINE ROAD.
3. ADDITIONAL CONSTRUCTION WARNING SIGNS MAY BE REQUIRED (THAT ARE NOT INCLUDED IN THE DETOUR PLAN) AND SHALL BE PROVIDED AS DIRECTED BY THE RESIDENT ENGINEER. THE COST INCURRED TO COMPLY WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION" (SPECIAL).
4. SEE SPECIAL PROVISIONS FOR "TRAFFIC CONTROL & PROTECTION FOR TEMPORARY DETOUR".
5. ALL SIGNS, BARRICADES, SIGN'S LIGHT AND FLAGS SHALL BE IN ACCORDANCE WITH THOSE INDICATED IN THE TRAFFIC CONTROL STANDARDS OF THE MUTCD AND THE STANDARD SPECIFICATIONS.
6. THE VILLAGE OF PALATINE AND IDOT (DISTRICT 1) SHALL BE NOTIFIED TWO (2) WEEKS IN ADVANCE PRIOR TO THE OPERATION OF THE DETOUR ROUTE.
7. CONTRACTOR SHALL INSTALL SIGN NO. 1 AND SIGN NO. 17 ON ALL SIDE STREETS, ONE BLOCK IN ADVANCE OF THE WORK ZONE AND AS DIRECTED BY THE ENGINEER.

LEGEND

- TEMPORARY TRAFFIC ADVISORY SIGN.
- (10) SIGN LEGEND NUMBER (SEE SHEET MT-9 FOR THE LEGEND & THE CORRESPONDING NUMBERS).
- DETOUR ROUTE
- CONSTRUCTION ZONE
- WESTBOUND DETOUR

VILLAGE OF PALATINE YARD PROPOSED SITE FOR CRUSHING AND MATERIAL STOCKPILING

TWO-WAY TRAFFIC

ONE-WAY TRAFFIC EASTBOUND

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE

PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION

SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

PALATINE ROAD - DETOUR PLAN (DETOUR 1)

SCALE: VERT. N.T.S. HORIZ. 1" = 400'

DATE OCTOBER 19, 2009

DRAWN BY BA

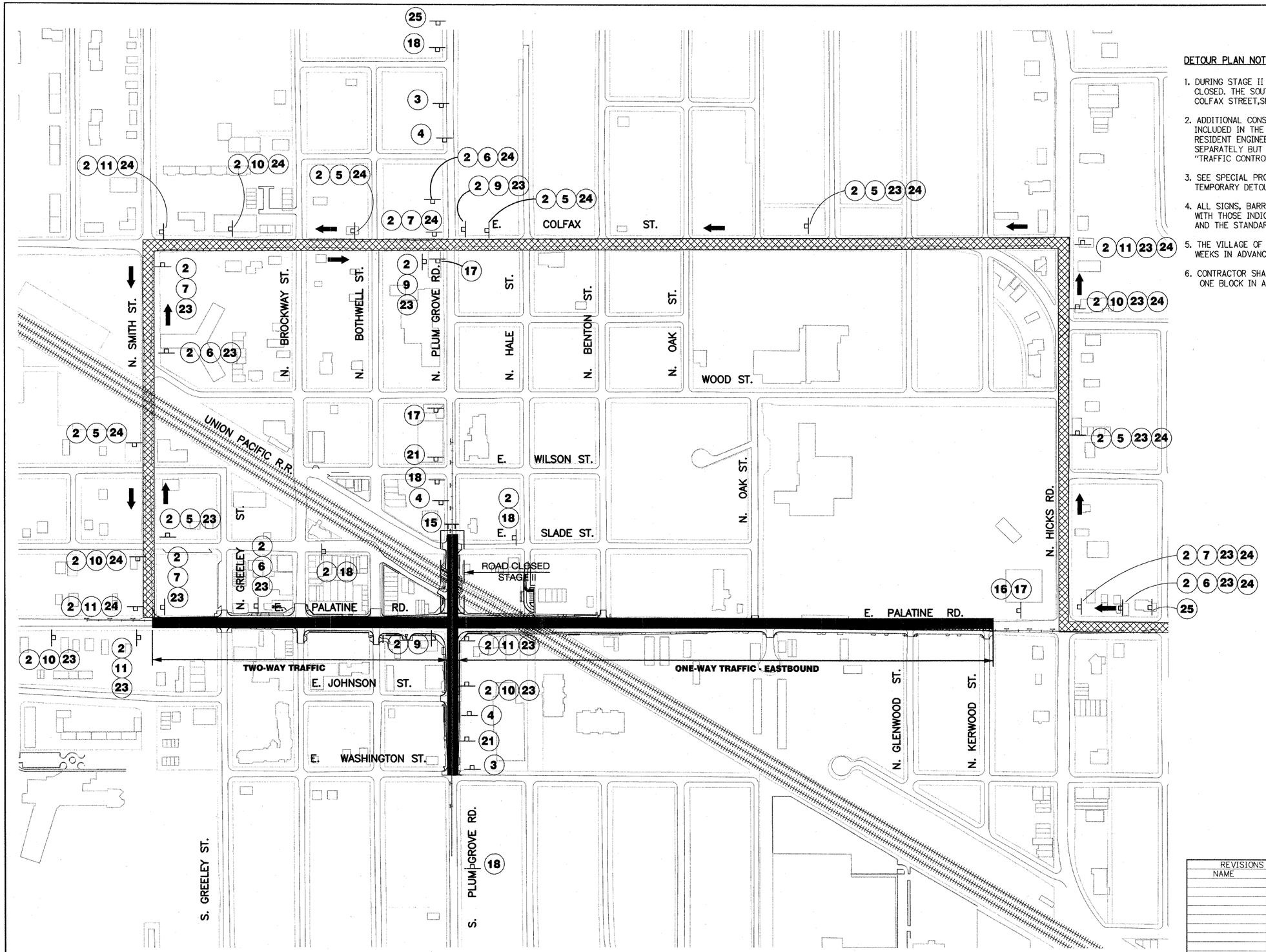
CHECKED BY RCH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	37
STA. _____	TO STA._____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083

DETOUR PLAN NOTES:

1. DURING STAGE II CONSTRUCTION OF PLUM GROVE ROAD, THE NORTH LEG WILL BE CLOSED. THE SOUTHBOUND AND THE NORTHBOUND TRAFFIC CAN BE DETOURED VIA COLFAX STREET,SMITH STREET AND PALATINE ROAD.
2. ADDITIONAL CONSTRUCTION WARNING SIGNS MAY BE REQUIRED (THAT ARE NOT INCLUDED IN THE DETOUR PLAN) AND SHALL BE PROVIDED AS DIRECTED BY THE RESIDENT ENGINEER. THE COST INCURRED TO COMPLY WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION" (SPECIAL).
3. SEE SPECIAL PROVISIONS FOR "TRAFFIC CONTROL & PROTECTION FOR TEMPORARY DETOUR".
4. ALL SIGNS, BARRICADES, SIGN'S LIGHT AND FLAGS SHALL BE IN ACCORDANCE WITH THOSE INDICATED IN THE TRAFFIC CONTROL STANDARDS OF THE MUTCD AND THE STANDARD SPECIFICATIONS.
5. THE VILLAGE OF PALATINE AND IDOT (DISTRICT 1) SHALL BE NOTIFIED TWO (2) WEEKS IN ADVANCE PRIOR TO THE OPERATION OF THE DETOUR ROUTE.
6. CONTRACTOR SHALL INSTALL SIGN NO. 1 AND SIGN NO. 17 ON ALL SIDE STREETS, ONE BLOCK IN ADVANCE OF THE WORK ZONE AND AS DIRECTED BY THE ENGINEER.



LEGEND

- TEMPORARY TRAFFIC ADVISORY SIGN.
- (10) SIGN LEGEND NUMBER (SEE SHEET MT-9 FOR THE LEGEND & THE CORRESPONDING NUMBERS).
- DETOUR ROUTE
- CONSTRUCTION ZONE
- PLUM GROVE ROAD STAGE II DETOUR

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE

PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

PLUM GROVE ROAD STAGE II DETOUR PLAN (DETOUR 2)

SCALE: VERT. N.T.S. HORIZ. 1" = 200'
DRAWN BY BA
DATE OCTOBER 19, 2009
CHECKED BY RCH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	38
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083

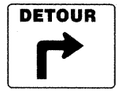
(1)
30" x 12"

(2)
30" x 12"

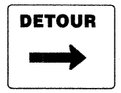
(3)
W 20-2
48" x 48"

(4)
W 20-2
48" x 48"

(5)
M 4-9 S
30" x 24"



(6)
M 4-9 AR
30" x 24"

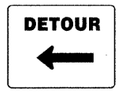


(7)
M 4-9 R
30" x 24"

(8)
M 4-4
24" x 12"

(9)
M 4-8A
24" x 18"

(10)
M 4-9AL
30" x 24"



(11)
M 4-9 L
30" x 24"

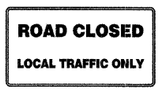
(12)
R 3-1
24" x 24"

(13)
R 5-1
30" x 30"

(14)
R 3-2
24" x 24"

(15)
R 11-2
48" x 30"

(16)
R 6-1
36" x 12"



(17)
R 11-4
60" x 30"

(18)
W 20-2
48" x 48"

42"
30"

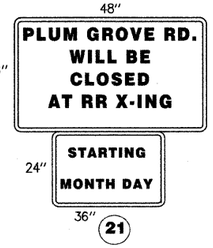
(19)
CE -4230

48"
36"

24"
36"

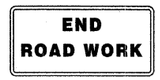
(20)
AN-C100-4836
& SUPPLEMENTAL (0) -3624
2 NO.S - REQUIRED

48"
36"



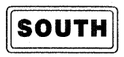
24"
36"

(21)
AN-C100-4836
& SUPPLEMENTAL (0) -3624
2 NO.S - REQUIRED



(22)
G 20-2
36" x 18"

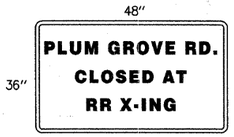
(23)
M 3-1
24" x 12"



(24)
M 3-3
24" x 12"

(25)
W 20-1
48" x 48"

48"
36"



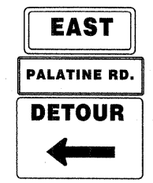
(26)

NOTE:

REPLACE SIGN (21) WITH SIGN (26) AT THE START OF CLOSURE.

NOTE:

PROPER SIGN CONFIGURATION IS:



REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

DETOUR PLAN SIGNAGE

SCALE: VERT. N.T.S.
HORIZ. 1" = 400'
DRAWN BY --
DATE OCTOBER 19, 2009
CHECKED BY BA

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	39
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083

GENERAL NOTES FOR EROSION CONTROL

1. PERIMETER EROSION BARRIER SHALL BE INSTALLED AT LOCATIONS SPECIFIED IN THE PLANS AT THE TOE OF SLOPE OR INSIDE THE RIGHT-OF-WAY WHICHEVER IS CLOSER TO THE CENTERLINE, OR AS DIRECTED BY THE ENGINEER PRIOR TO THE START OF ANY EARTHWORK, CULVERT, OR STORM SEWER CONSTRUCTION.

2. THE PERIMETER EROSION BARRIER SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED WITH VEGETATION. AT THIS TIME, THE PERIMETER EROSION BARRIER SHALL BE REMOVED AND AREAS DAMAGED BY THE FENCE INSTALLATION RESTORED.

3. THE FENCE INSTALLATION, MAINTENANCE, REMOVAL AND THE RESTORATION OF THE AREA DISTURBED BY THE FENCE INSTALLATION IS INCLUDED IN THE PAY ITEM PERIMETER EROSION BARRIER.

4. THE WORK DESCRIBED ON THESE DRAWINGS ARE AN INTEGRAL PART OF THE STORM WATER POLLUTION PREVENTION PLAN USED TO OBTAIN A NPDES PERMIT FROM IEPA FOR THE CONSTRUCTION OF THIS PROJECT.

5. THE PURPOSE OF THE EROSION AND SEDIMENT CONTROL MEASURES INCLUDED FOR THIS PROJECT IS TO LIMIT THE SEDIMENT POLLUTION IMPACT, OF ANY STORM WATER DISCHARGES THAT ORIGINATE ON THIS SITE OR OFF-SITE FLOWS THAT FLOW OVER THE DISTURBED AREAS, ON DOWNSTREAM AREAS.

6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT SEDIMENT TRANSPORT OFF THE SITE IS REDUCED BY A COMBINATION OF MINIMIZATION OF EROSION AT THE SOURCE AND INSTALLATION OF SPECIFIC MEASURES TO CONTROL OR REDUCE THE TRANSPORT OF SEDIMENT. A COPY OF THE EROSION AND SEDIMENT CONTROL SCHEDULE BEING IMPLEMENTED BY THE CONTRACTOR WILL BE ON THE CONSTRUCTION SITE AT ALL TIMES.

7. TO THE MAXIMUM EXTENT POSSIBLE, ALL FLOWS ORIGINATING OFF THE CONSTRUCTION SITE WILL BE DIVERTED AROUND DISTURBED AREAS OR WILL BE CONVEYED THROUGH THE SITE IN A MANNER THAT UNTREATED ON-SITE RUNOFF DOES NOT MIX WITH THE OFF-SITE RUNOFF.

8. ALL RUNOFF ORIGINATING ON DISTURBED AREAS ASSOCIATED WITH THIS PROJECT WILL PASS THROUGH ONE OR MORE MEASURES THAT WILL MINIMIZE THE OFF-SITE SEDIMENT IMPACTS OF THE CONSTRUCTION ACTIVITY.

9. DISTURBED AREAS ARE TO BE PROTECTED FROM EROSION IN A TIMELY MANNER. UPON COMPLETION OF GRADING OR CONSTRUCTION, THE AREA WILL BE STABILIZED (USING PERMANENT MEASURES WHEN POSSIBLE) WITHIN 7 CALENDAR DAYS. TEMPORARY STABILIZATION THROUGH USE OR GROUND COVER, MULCHING, OR OTHER APPROVED MEASURES WILL BE INSTALLED WHENEVER SITE DEVELOPMENT WORK, GRADING OR OTHER EARTH DISTURBING ACTIVITIES CEASE TO BE CONTINUOUS FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. THE 7/14 DAY REQUIREMENT IS TAKEN TO MEAN THAT THE STABILIZATION OPERATION IS COMPLETE OR NEARING COMPLETION IN THE DEFINED TIME.

10. STABILIZATION OF CUT OR FILL SLOPES WITH TEMPORARY OR PERMANENT EROSION CONTROL MEASURES IS REQUIRED WHENEVER THE CUT OR FILL ACTIVITY REACHES 10 FEET VERTICALLY OR THE FINISHED SLOPE EQUALS 30 FEET, WHICHEVER IS MORE RESTRICTIVE. ONCE THE STABILIZATION MEASURES ARE INSTALLED, THE PLACEMENT OF FILL EXCAVATION ACTIVITIES ARE ALLOWED TO PROCEED.

11. THE CONTRACTOR SHALL DESIGNATE ONE OF HIS/HER EMPLOYEES AS RESPONSIBLE FOR IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN ON ALL DISTURBED AREAS. THIS PERSON IS TO BE KNOWLEDGEABLE ABOUT INSTALLATION AND MAINTENANCE OF THE REQUIRED MEASURES. THIS EMPLOYEE IS TO HAVE THE AUTHORITY TO CARRY OUT THE IMPLEMENTATION OF ANY INSTRUCTIONS CONCERNING THE EROSION AND SEDIMENT CONTROL PLAN GIVEN BY THE ENGINEER. ALL MEASURES WILL BE INSPECTED BY THIS INDIVIDUAL AND THE ENGINEER ON A REGULAR BASIS (AT LEAST ONCE EVERY 7 DAYS) AND AFTER RAINFALL EVENT GREATER THAN 0.5 INCHES.

12. MATERIALS EXCAVATED FOR THE CONSTRUCTION OR CLEANOUT OF SEDIMENT TRAPS OR SEDIMENT BASINS SHALL NOT BE STOCKPILED IN THE VICINITY OF THE TRAP OR BASIN. IT WILL EITHER BE PLACED IN AN EMBANKMENT OR WASTED AS DIRECTED BY THE ENGINEER.

GENERAL NOTES FOR EROSION CONTROL CONT'D

13. EXCAVATION TO BE USED FOR EMBANKMENTS SHALL NOT BE STOCKPILED UNLESS PERIMETER CONTROLS ARE UTILIZED. WHEN THIS MATERIAL IS STOCKPILED FOR THE CONVENIENCE OF THE CONTRACTOR THE COST OF THE CONTROLS ARE BORNE BY THE CONTRACTOR. IF THE MATERIAL IS STOCKPILED AT THE DIRECTION OF THE ENGINEER THE DEPARTMENT WILL ASSUME THE COSTS OF THE CONTROLS.

14. SEDIMENT LADEN DEWATERING DISCHARGE MUST BE DIRECTED TO AN APPROVED SEDIMENT TRAPPING MEASURE PRIOR TO RELEASE FROM THE SITE.

15. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL NOT BE LEFT IN PLACE. THESE MEASURES WILL BE REMOVED BY THE CONTRACTOR ON ESTABLISHMENT OF NPDES DEFINED FINAL STABILIZATION.

16. WHEN THE CONTRACTOR REQUESTS A CHANGE TO POSTPONE COMPLETION OF THE EXCAVATION OF A SPECIFIC AREA AS A CONTINUOUS OPERATION AND PLACING THE TOPSOIL AS DEFINED IN THE STANDARD SPECIFICATIONS, THE ENGINEER MAY ALLOW THE CONTRACTOR TO STABILIZE THE AREA USING TEMPORARY STABILIZATION WITH STRAW MULCH PROVIDING THE FOLLOWING CONDITIONS ARE MET:

    (A) ALL AREAS BEING STABILIZED ARE 3:1 SLOPES OR FLATTER.

    (B) THE CONTRACTOR BEARS THE COST OF PREPARING THE SEED BED AND STABILIZING THE AREA WITH TEMPORARY STABILIZATION WITH STRAW MULCH.

    (C) ALL REQUIRED SEDIMENT CONTROL MEASURES FOR THE SECTION OF ROAD IN QUESTION HAVE BEEN INSTALLED AND ARE BEING MAINTAINED.

17. SEEDING USAGE

    CLASS 7: LONG TERM TEMPORARY EROSION CONTROL SEEDING

EROSION AND SEDIMENT CONTROL (ESC) STRATEGY

1. CLEAR AND GRUB. REMOVE EXISTING TREES AS NECESSARY. ERECT NEW SEDIMENT CONTROL (SC) SILT FENCE AS SHOWN IN THE PLAN.

2. CONSTRUCT EMBANKMENT FOR TEMPORARY PAVEMENT. STABILIZE EMBANKMENT WITH SEED AND EROSION CONTROL BLANKET.

3. CONSTRUCT TEMPORARY PAVEMENT AND RELOCATE TRAFFIC TO STAGE 1 ALIGNMENT. BEGIN STAGE I.

4. STABILIZE THE EXISTING TOPSOIL AREAS WITH SEED AND EROSION CONTROL BLANKET, INSTALL INLET FILTER IN DRAINAGE STRUCTURES SEDIMENT CONTROL.

5. CONSTRUCT STAGE I PAVEMENT. RELOCATE TRAFFIC TO STAGE II ALIGNMENT.

6. CONSTRUCT STAGE II PAVEMENT. RELOCATE TRAFFIC TO STAGE III ALIGNMENT.

7. REMOVE TEMPORARY PAVEMENT. STABILIZE DISTURBED EMBANKMENTS.

8. WHEN FINAL STABILIZATION IS ESTABLISHED,

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE

PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

PALATINE ROAD & PLUM GROVE ROAD TEMPORARY EROSION CONTROL PLAN GENERAL NOTES

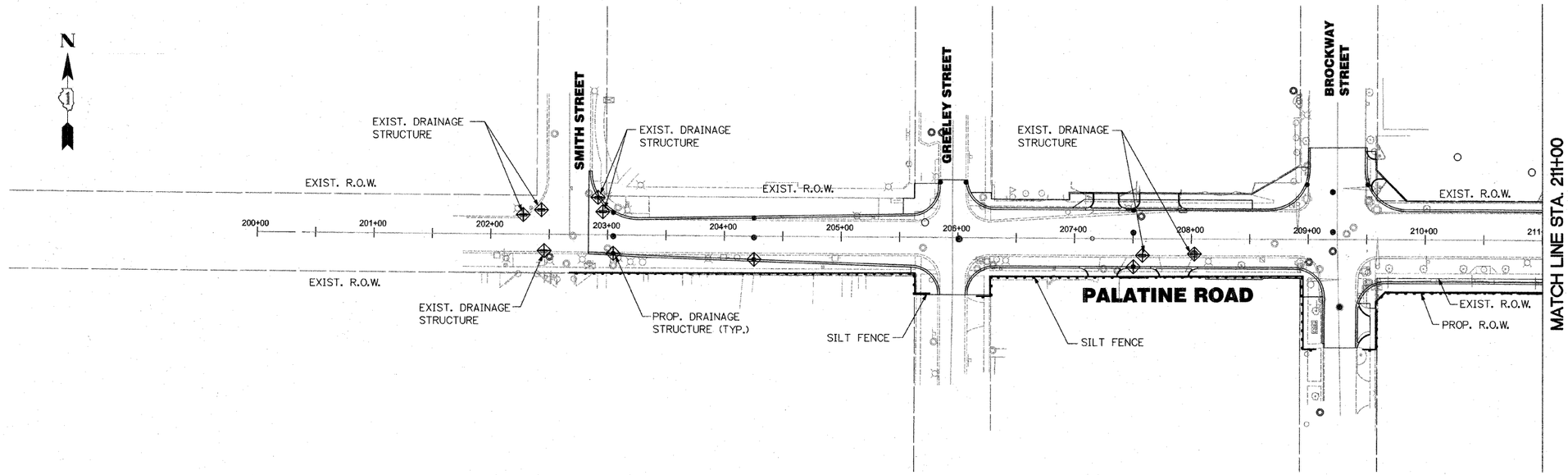
SCALE: VERT. HORIZ. N.T.S. DRAWN BY BA

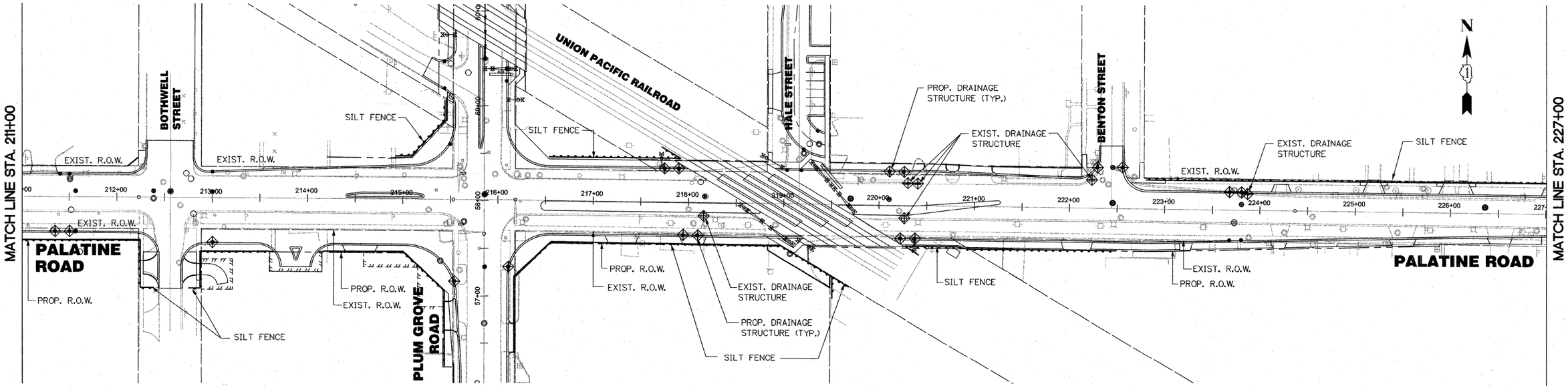
DATE OCTOBER 19, 2009 CHECKED BY RCH

EC-1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	40
STA. _____	TO STA._____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083





NOTE:

QUANTITIES HAVE BEEN ESTIMATED HEREIN FOR TEMPORARY SEEDING CLASS 7 WHICH WILL BE USED ONLY WHEN DIRECTED BY ENGINEER IN ACCORDANCE WITH ARTICLE 280.04 (F) OF THE STANDARD SPECIFICATIONS, AND EROSION CONTROL BLANKET WILL BE USED TO PROTECT ALL THE SEEDED AREAS.

SEDIMENT CONTROL, SILT FENCE

INLET FILTERS

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE

PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION

SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

PALATINE ROAD

TEMPORARY EROSION CONTROL PLAN

STAGE I

SCALE: VERT. N.T.S. HORIZ. 1" = 50'

DRAWN BY BA

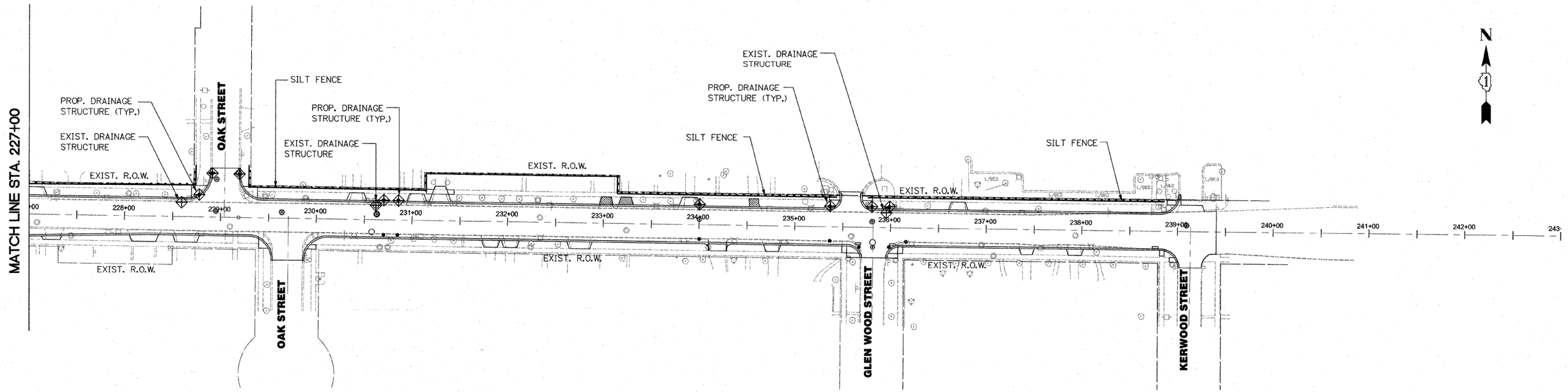
DATE OCTOBER 19, 2009

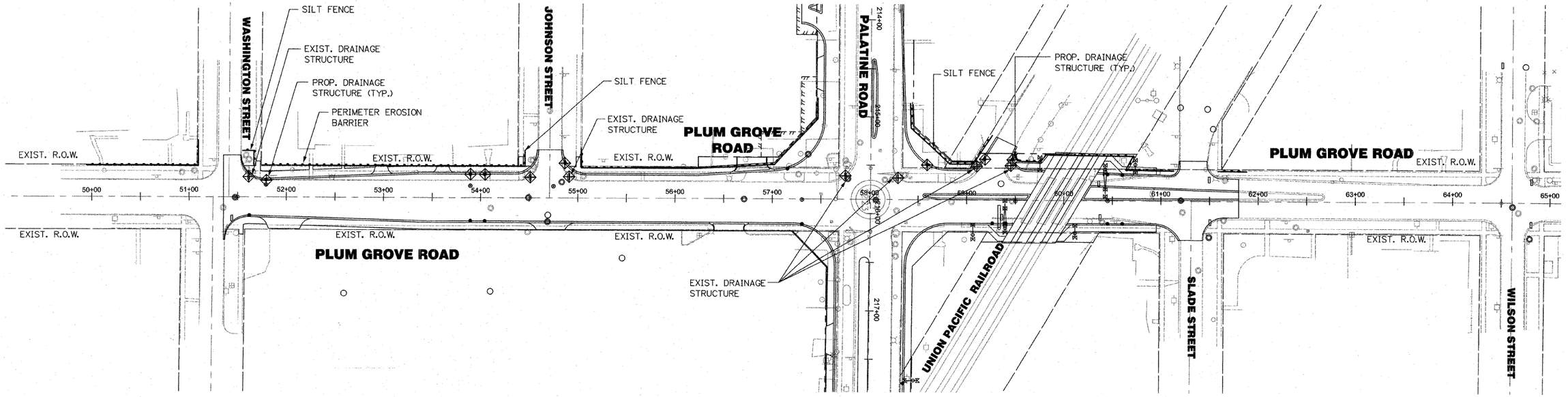
CHECKED BY RCH

EC-2

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	41
STA. _____	TO STA._____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083





NOTE:

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SEDIMENT CONTROL, SILT FENCE

INLET FILTERS

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE

PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

PALATINE ROAD & PLUM GROVE ROAD TEMPORARY EROSION CONTROL PLAN STAGE I

SCALE: VERT. N.T.S.
HORIZ. 1" = 50'

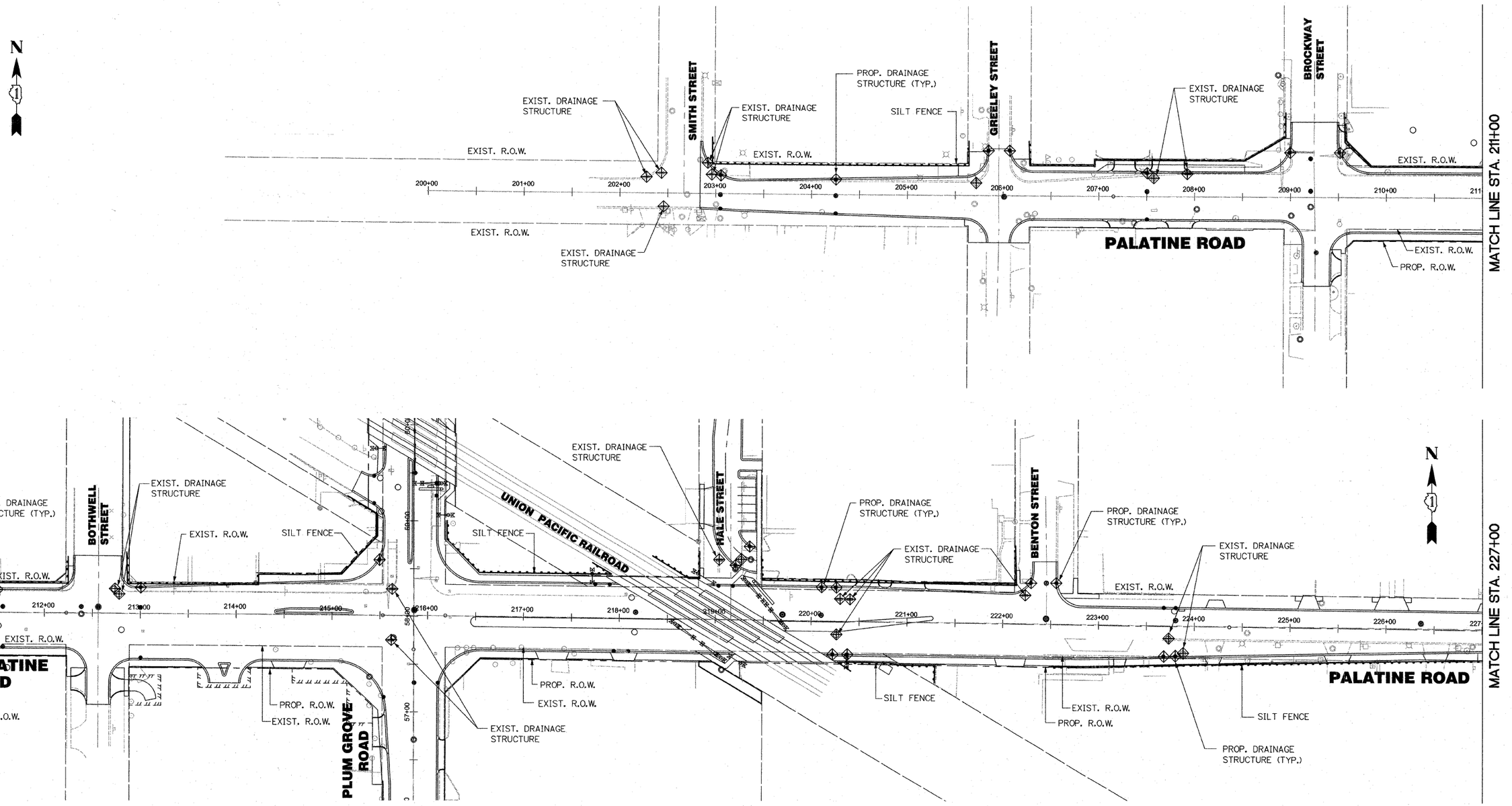
DRAWN BY BA

DATE OCTOBER 19, 2009

CHECKED BY RCH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	42
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083



NOTE:

QUANTITIES HAVE BEEN ESTIMATED HEREIN FOR TEMPORARY SEEDING CLASS 7 WHICH WILL BE USED ONLY WHEN DIRECTED BY ENGINEER IN ACCORDANCE WITH ARTICLE 280.04 (F) OF THE STANDARD SPECIFICATIONS, AND EROSION CONTROL BLANKET WILL BE USED TO PROTECT THE SEEDED AREAS.

SEDIMENT CONTROL, SILT FENCE

INLET FILTERS

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE

PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

PALATINE ROAD
TEMPORARY EROSION CONTROL PLAN
STAGE II

SCALE: VERT. N.T.S.
HORIZ. 1" = 50'

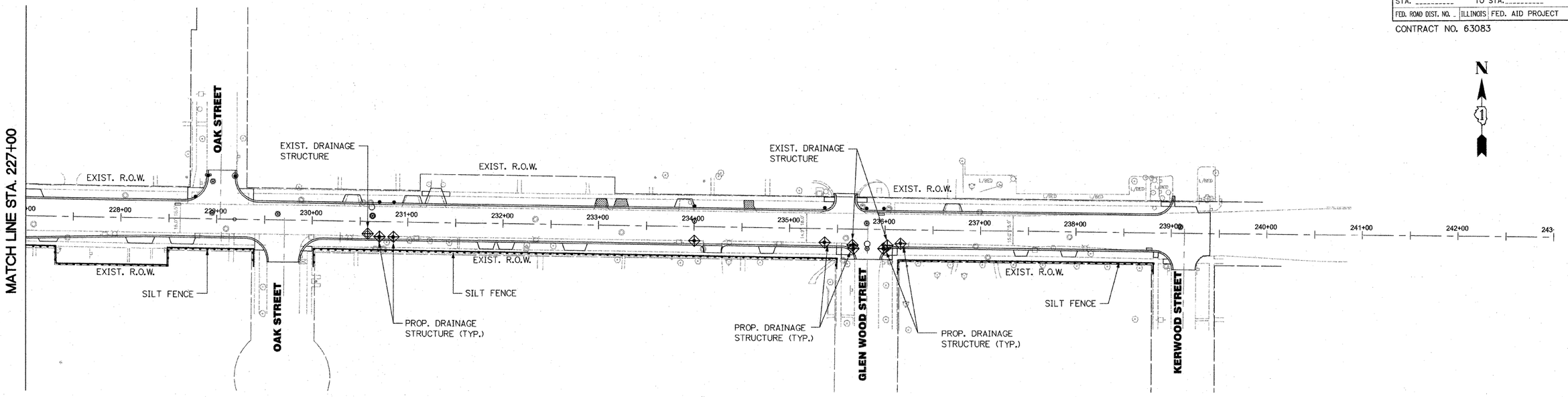
DRAWN BY BA

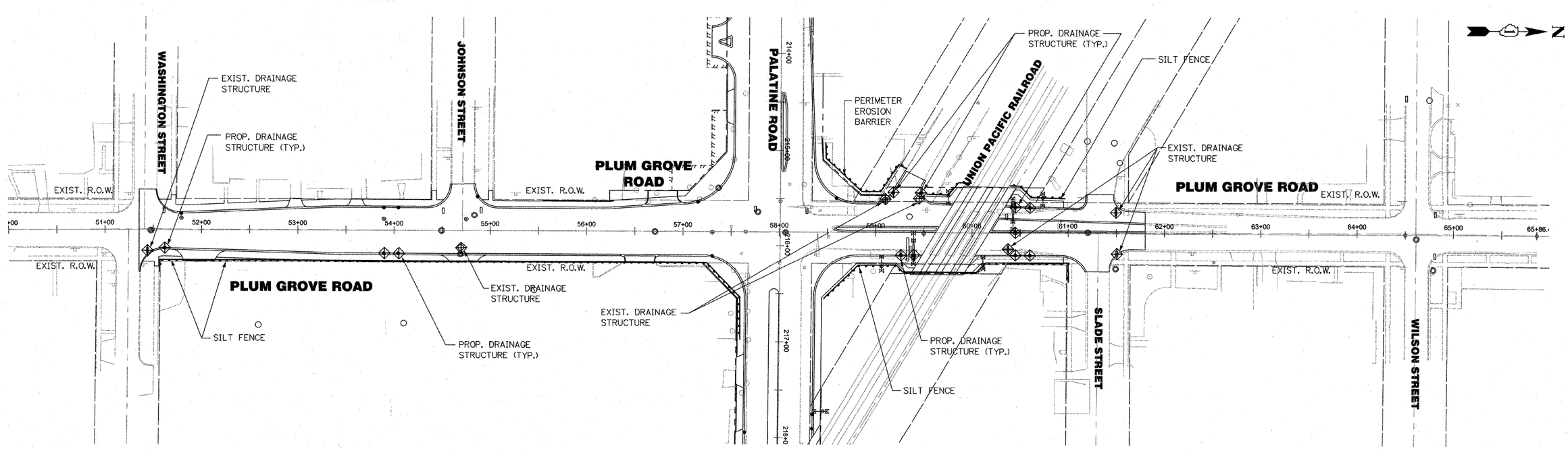
DATE OCTOBER 19, 2009

CHECKED BY RCH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	43
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083





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SEDIMENT CONTROL, SILT FENCE

INLET FILTERS

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE

PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

PALATINE ROAD & PLUM GROVE ROAD TEMPORARY EROSION CONTROL PLAN STAGE II

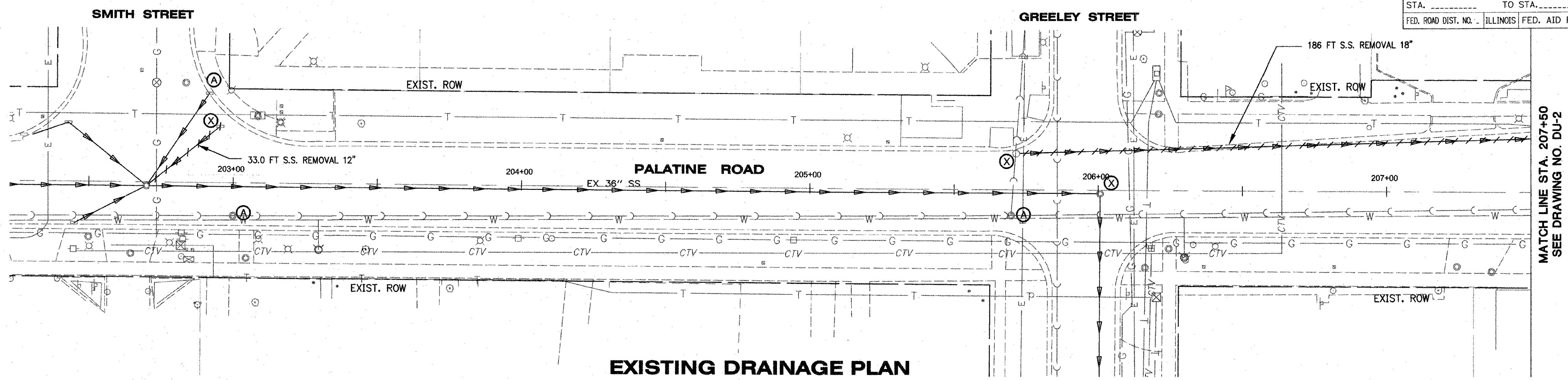
SCALE: VERT. N.T.S.
HORIZ. 1" = 50'

DRAWN BY BA

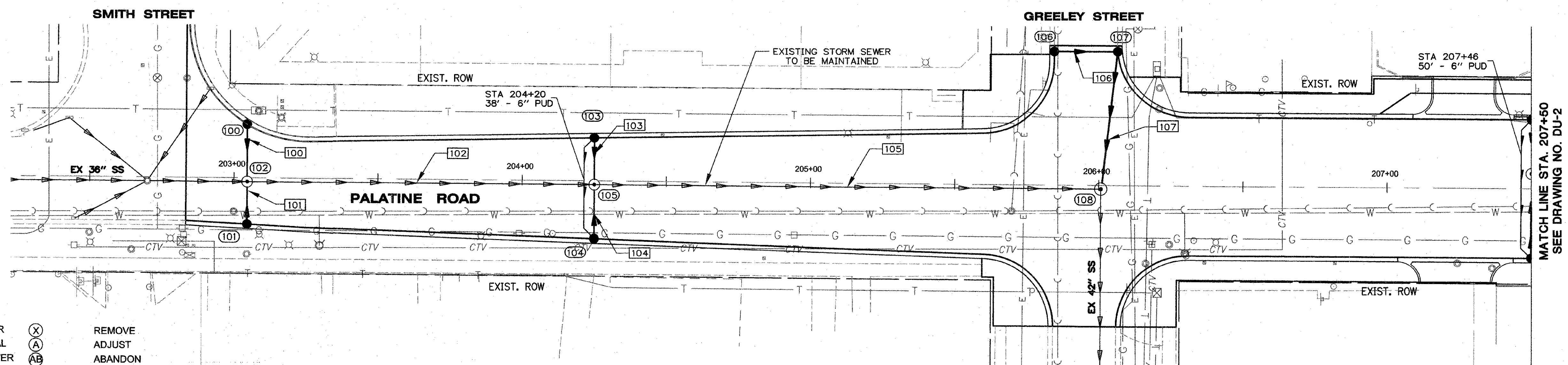
DATE OCTOBER 19, 2009

CHECKED BY RCH

CONTRACT NO. 63083	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1285	02-00075-00-PV	COOK	161	44
	STA.		TO STA.		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXISTING DRAINAGE PLAN



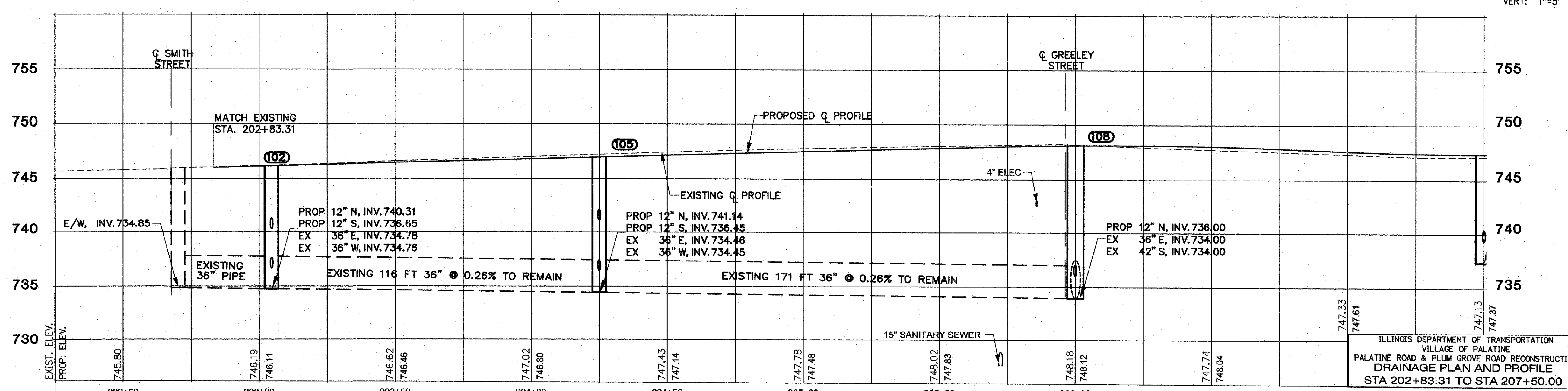
LEGEND

EXISTING STORM SEWER		(X)	REMOVE
STORM SEWER REMOVAL		(A)	ADJUST
PROPOSED STORM SEWER		(AB)	ABANDON
PROPOSED MANHOLE		[XX]	PROPOSED STORM SEWER (SEE DU-10 FOR SCHEDULE)
PROPOSED CATCH BASIN		(XX)	PROPOSED DRAINAGE STRUCTURE (SEE DU-10 FOR SCHEDULE)

PROPOSED DRAINAGE PLAN

GREELEY STREET

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



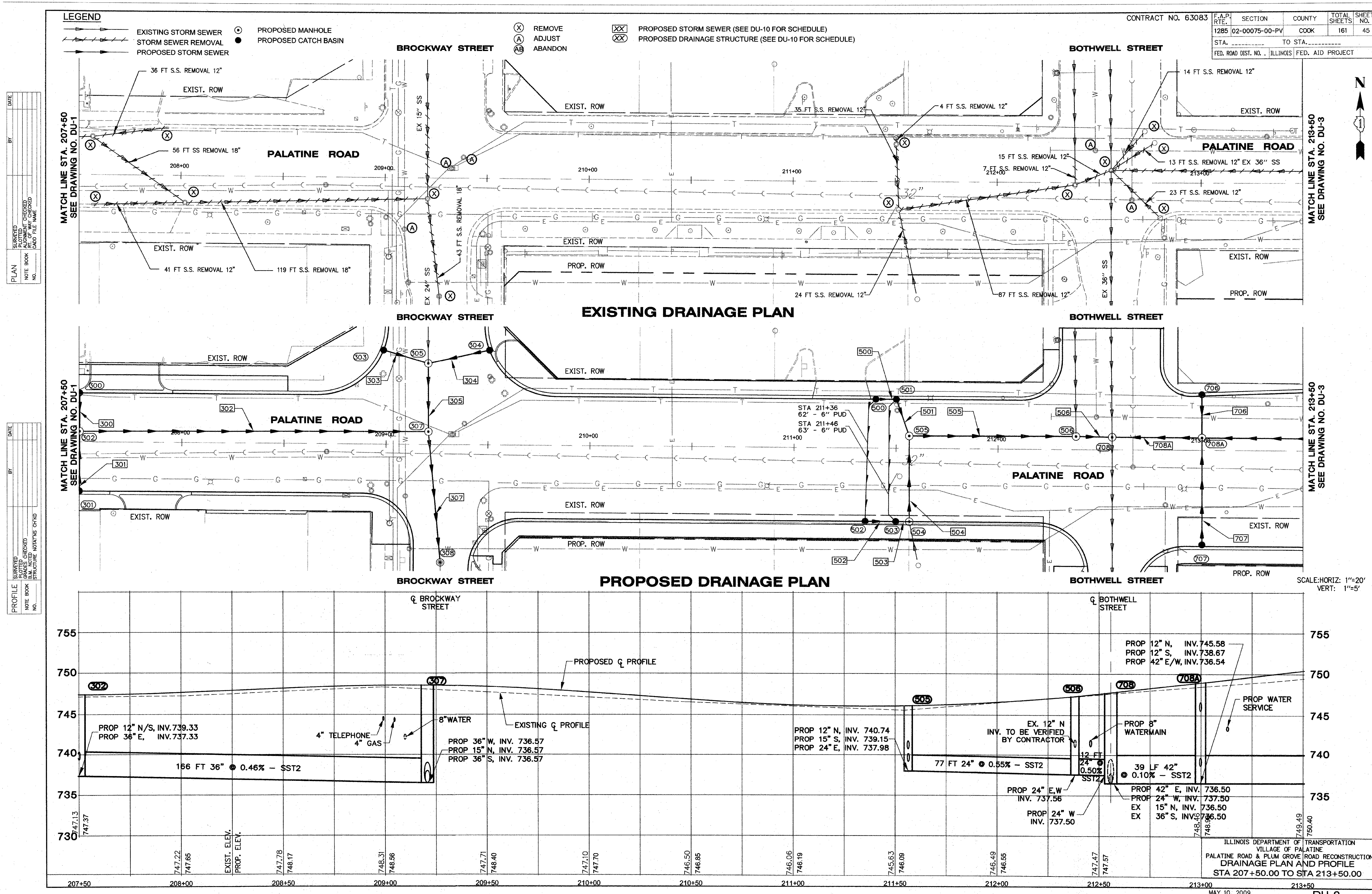
ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
DRAINAGE PLAN AND PROFILE
STA 202+83.31 TO STA 207+50.00

MAY 10, 2009

DU-1

PLAN	
NOTE BOOK	SURVEYED / PLOTTED / ALIGNMENT CHECKED / R.O.W. CHECKED / CADD FILE NAME
NO.	

PROFILE	
NOTE BOOK	SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CH'KD
NO.	


LEGEND
EXISTING STORM SEWER
STORM SEWER REMOVAL
PROPOSED STORM SEWER
PROPOSED MANHOLE
PROPOSED CATCH BASIN
REMOVE
ADJUST
ABANDON
PROPOSED STORM SEWER (SEE DU-10 FOR SCHEDULE)
PROPOSED DRAINAGE STRUCTURE (SEE DU-10 FOR SCHEDULE)
CONTRACT NO. 63083
F.A.P. RTE. 1285
SECTION 02-00075-00-PV
COUNTY COOK
TOTAL SHEETS 161
SHEET NO. 45
STA. TO STA.
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
BROCKWAY STREET
BOTHWELL STREET
PALATINE ROAD
MATCH LINE STA. 207+50 SEE DRAWING NO. DU-1
MATCH LINE STA. 213+50 SEE DRAWING NO. DU-3
36 FT S.S. REMOVAL 12"
56 FT SS REMOVAL 18"
41 FT S.S. REMOVAL 12"
119 FT S.S. REMOVAL 18"
43 FT S.S. REMOVAL 18"
EX 15" SS
EX 24" SS
35 FT S.S. REMOVAL 12"
4 FT S.S. REMOVAL 12"
24 FT S.S. REMOVAL 12"
87 FT S.S. REMOVAL 12"
15 FT S.S. REMOVAL 12"
7 FT S.S. REMOVAL 12"
14 FT S.S. REMOVAL 12"
13 FT S.S. REMOVAL 12" EX 36" SS
23 FT S.S. REMOVAL 12"
EX 36" SS
EXIST. ROW
PROP. ROW
EXISTING DRAINAGE PLAN
STA 211+36 62' - 6" PUD
STA 211+46 63' - 6" PUD
PROPOSED DRAINAGE PLAN
SCALE:HORIZ: 1"=20' VERT: 1"=5'
℄ BROCKWAY STREET
℄ BOTHWELL STREET
PROPOSED ℄ PROFILE
EXISTING ℄ PROFILE
PROP 12" N/S, INV. 739.33
PROP 36" E, INV. 737.33
166 FT 36" @ 0.46% - SST2
4" TELEPHONE
4" GAS
8" WATER
PROP 36" W, INV. 736.57
PROP 15" N, INV. 736.57
PROP 36" S, INV. 736.57
PROP 12" N, INV. 740.74
PROP 15" S, INV. 739.15
PROP 24" E, INV. 737.98
77 FT 24" @ 0.55% - SST2
EX. 12" N
INV. TO BE VERIFIED BY CONTRACTOR
12 FT 24" @ 0.50% SST2
PROP 8" WATERMAIN
PROP 24" E,W INV. 737.56
PROP 24" W INV. 737.50
39 LF 42" @ 0.10% - SST2
PROP 42" E, INV. 736.50
PROP 24" W, INV. 737.50
EX 15" N, INV. 736.50
EX 36" S, INV. 736.50
PROP 12" N, INV. 745.58
PROP 12" S, INV. 738.67
PROP 42" E/W, INV. 736.54
PROP WATER SERVICE
EXIST. ELEV.
PROP. ELEV.
747.13 747.37
747.22 747.65
747.78 748.17
748.31 748.56
747.71 748.40
747.10 747.70
746.50 746.85
746.06 746.19
745.63 746.09
746.49 746.55
747.47 747.57
748.46 748.9
749.49 750.40
207+50 208+00 208+50 209+00 209+50 210+00 210+50 211+00 211+50 212+00 212+50 213+00 213+50
ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
DRAINAGE PLAN AND PROFILE
STA 207+50.00 TO STA 213+50.00
MAY 10, 2009
DU-2

CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	46
STA. _____	TO STA. _____			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND

- EXISTING STORM SEWER
- STORM SEWER REMOVAL
- PROPOSED STORM SEWER
- PROPOSED MANHOLE
- PROPOSED CATCH BASIN
- (X) REMOVE
- (A) ADJUST
- (AB) ABANDON
- (XX) PROPOSED STORM SEWER (SEE DU-10 FOR SCHEDULE)
- (XX) PROPOSED DRAINAGE STRUCTURE (SEE DU-10 FOR SCHEDULE)

PLUM GROVE ROAD
SEE SHEET DU-9 FOR EXIST. DRAINAGE DETAILS

UNION PACIFIC RAILROAD

HALE STREET
SEE SHEET DU-7 FOR EXIST. DRAINAGE DETAILS

MATCH LINE STA. 213+50
SEE DRAWING NO. DU-2

MATCH LINE STA. 219+50
SEE DRAWING NO. DU-4

326 FT S.S. REMOVAL 36"
PROP. ROW
EXIST. ROW
EX 15" SS
33 FT S.S. REMOVAL 12"
228 FT S.S. REMOVAL 36"
EXIST. ROW
15 LF S.S. REMOVAL 12"
8 FT S.S. REMOVAL 12"
15 FT S.S. REMOVAL 12"
64 FT S.S. REMOVAL 15"
16 FT S.S. REMOVAL 12"
EX 36" SS
PALATINE ROAD
40 FT S.S. REMOVAL 12"
EXIST. ROW
PROP. ROW
16 FT S.S. REMOVAL 12"

EXISTING DRAINAGE PLAN

PLUM GROVE ROAD
SEE SHEET DU-9 FOR PROP. DRAINAGE DETAILS

UNION PACIFIC RAILROAD

HALE STREET
SEE SHEET DU-7 FOR PROP. DRAINAGE DETAILS

MATCH LINE STA. 213+50
SEE DRAWING NO. DU-2

MATCH LINE STA. 219+50
SEE DRAWING NO. DU-4

PROP. ROW
EXIST. ROW
705
704
702
703
701
700
241
STA 217+80
76' - 6" PUD
STA 217+95
76' - 6" PUD
PALATINE ROAD
EXIST. ROW
PROP. ROW
CONTRACTOR TO POSITION TYPE 1 FRAME AND GRATE TANGENTIAL GUTTER LINE FOR CB 700, 701
PROP. ROW

PROPOSED DRAINAGE PLAN

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

PLUM GROVE ROAD
SEE SHEET DU-9 FOR PROP. DRAINAGE DETAILS

℄ PLUM GROVE STREET
℄ HALE STREET

PROPOSED ℄ PROFILE
EXISTING ℄ PROFILE
1½" FIBER OPTIC
PROP 10" WATERMAIN
4" GAS
PROP WATER SERVICE
PROP 42" W/E, INV. 736.83
PROP 30" N, INV. 736.83
PROP 12" NW, INV. 740.03
PROP 12" S, INV. 740.03
PROP 12" NW, INV. 742.66
PROP 12" S, INV. 742.66
PROP 42" W, INV. 737.05
EX. 36" E. INV. 737.05
6" WATER
EX 36" E. INV. TO BE VERIFIED
280 LF 42" @ 0.10% – SST2
224 FT 42" @ 0.10% – SST2
EXISTING 147 FT 36" @ 0.31% TO REMAIN, STEEL LINING INSERT PROPOSED

	213+50	214+00	214+50	215+00	215+50	216+00	216+50	217+00	217+50	218+00	218+50	219+00	219+50
EXIST. ELEV.	749.49		750.62		751.24	751.21		750.84		750.30	749.68	749.05	748.84	748.70	748.57	748.69	748.64
PROP. ELEV.	750.40		751.63		752.24	752.23		751.82		750.81	750.00	749.20	748.75	748.46	748.52	748.52	748.52

ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
DRAINAGE PLAN AND PROFILE
STA 213+50.00 TO STA 219+50.00

MAY 10, 2009

CONTRACT NO. 63083

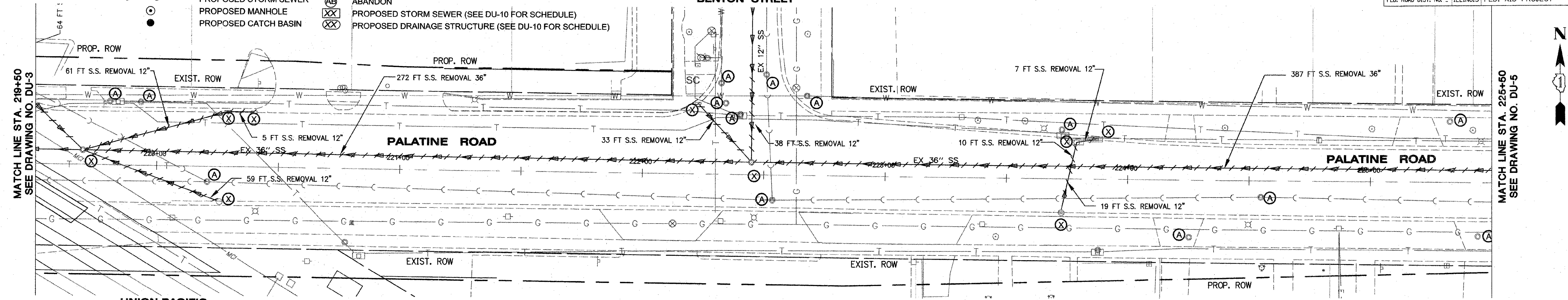
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	47

STA. ________ TO STA. ________

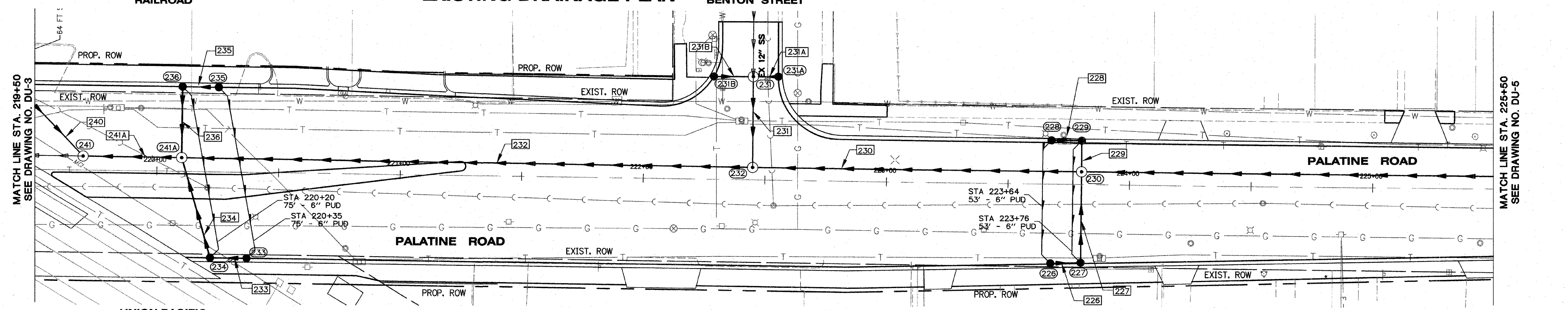
FED. ROAD DIST. NO. _ | ILLINOIS | FED. AID PROJECT

LEGEND

- EXISTING STORM SEWER
- STORM SEWER REMOVAL
- PROPOSED STORM SEWER
- PROPOSED MANHOLE
- PROPOSED CATCH BASIN
- (X) REMOVE
- (A) ADJUST
- (AB) ABANDON
- [XX] PROPOSED STORM SEWER (SEE DU-10 FOR SCHEDULE)
- (XX) PROPOSED DRAINAGE STRUCTURE (SEE DU-10 FOR SCHEDULE)

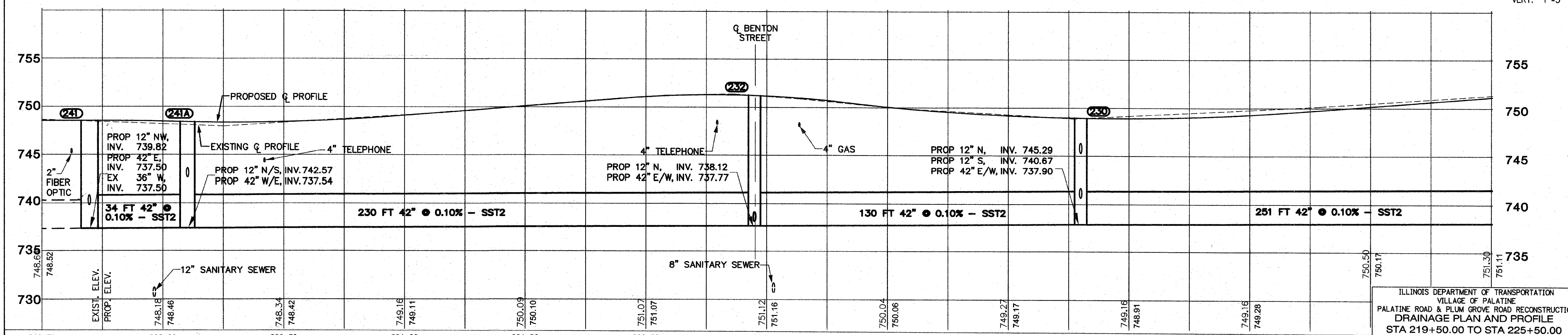


EXISTING DRAINAGE PLAN



PROPOSED DRAINAGE PLAN

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



ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
DRAINAGE PLAN AND PROFILE
STA 219+50.00 TO STA 225+50.00

MAY 10, 2009

DU-4

CONTRACT NO. 63083

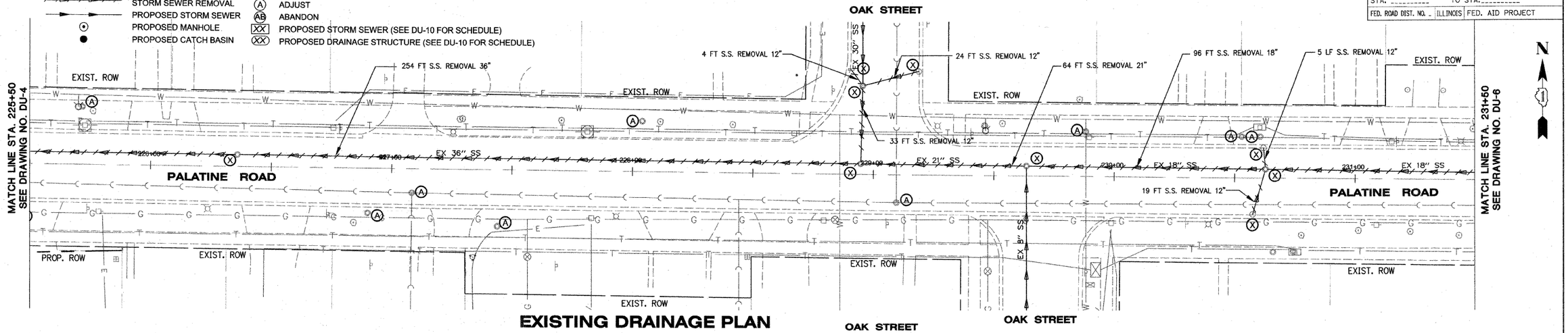
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	48
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

LEGEND

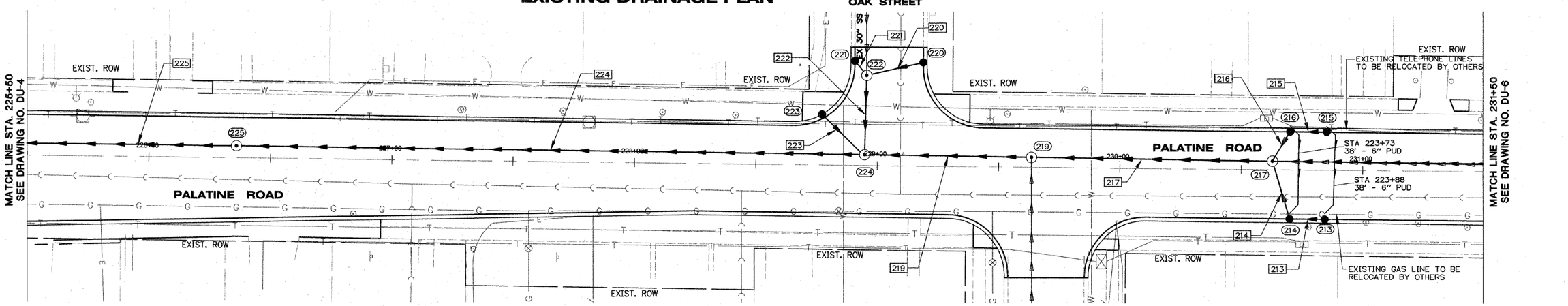
- EXISTING STORM SEWER
- STORM SEWER REMOVAL
- PROPOSED STORM SEWER
- PROPOSED MANHOLE
- PROPOSED CATCH BASIN
- (X) REMOVE
- (A) ADJUST
- (AB) ABANDON
- (XX) PROPOSED STORM SEWER (SEE DU-10 FOR SCHEDULE)
- (XX) PROPOSED DRAINAGE STRUCTURE (SEE DU-10 FOR SCHEDULE)

PLAN — DATE | BY | SURVEYED, PLOTTED, DRAWN, CHECKED, R/W, OF WAY CHECKED, CADD FILE NAME | NOTE BOOK NO.

PROFILE — DATE | BY | SURVEYED, PLOTTED, DRAWN, CHECKED, B.M. NOTED, STRUCTURE NO'S ATN'S CHK'D | NOTE BOOK NO.

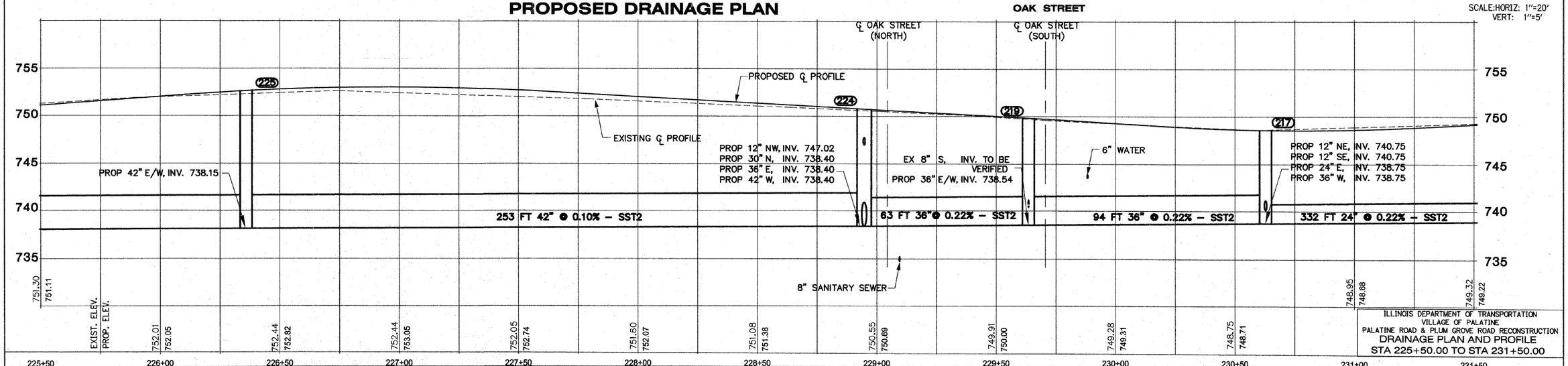


EXISTING DRAINAGE PLAN



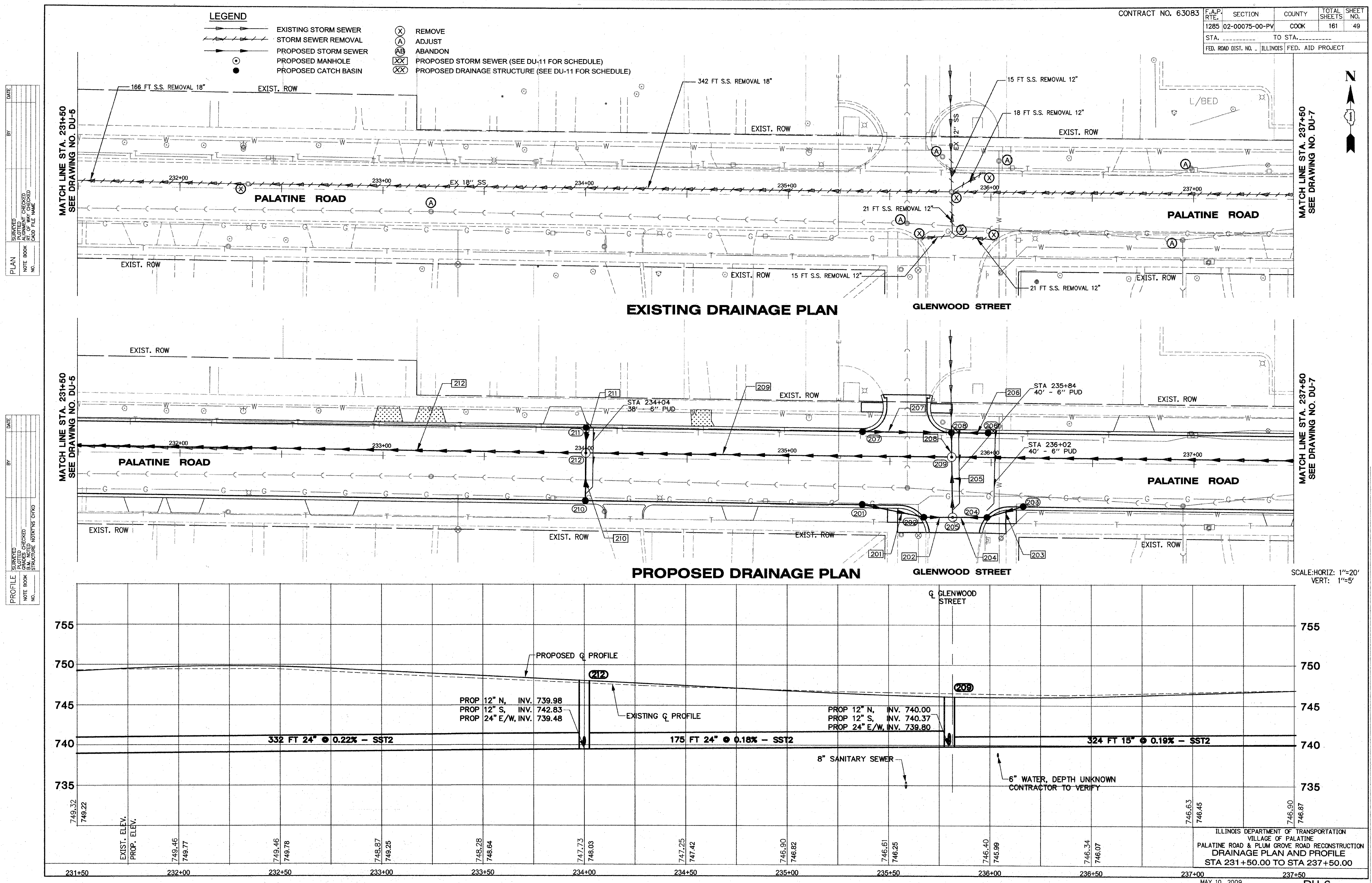
PROPOSED DRAINAGE PLAN

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



ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
DRAINAGE PLAN AND PROFILE
STA 225+50.00 TO STA 231+50.00

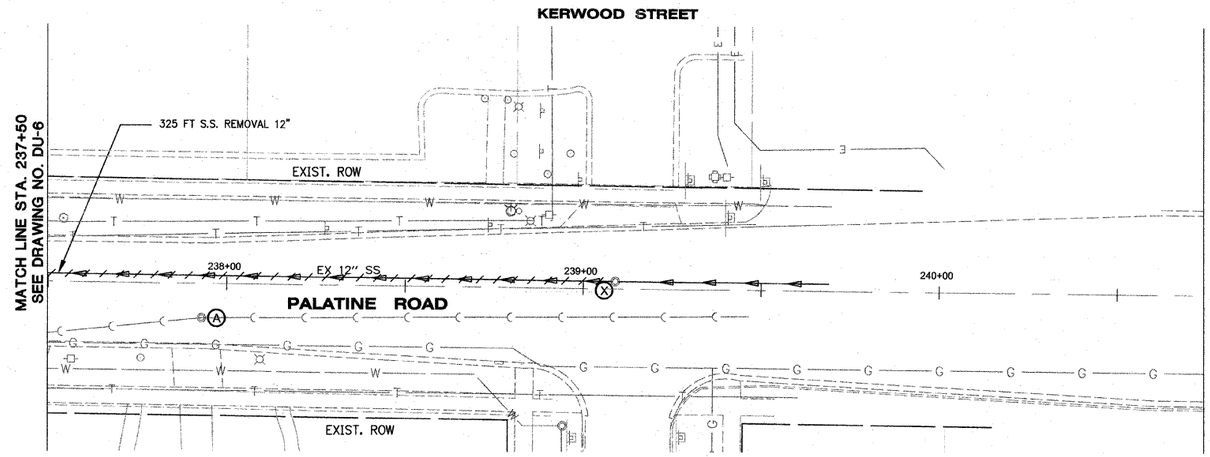
MAY 10, 2009


CONTRACT NO. 63083
F.A.P. RTE. 1285
SECTION 02-00075-00-PV
COUNTY COOK
TOTAL SHEETS 161
SHEET NO. 49
STA. TO STA.
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
LEGEND
EXISTING STORM SEWER
STORM SEWER REMOVAL
PROPOSED STORM SEWER
PROPOSED MANHOLE
PROPOSED CATCH BASIN
REMOVE
ADJUST
ABANDON
PROPOSED STORM SEWER (SEE DU-11 FOR SCHEDULE)
PROPOSED DRAINAGE STRUCTURE (SEE DU-11 FOR SCHEDULE)
MATCH LINE STA. 231+50 SEE DRAWING NO. DU-5
MATCH LINE STA. 237+50 SEE DRAWING NO. DU-7
166 FT S.S. REMOVAL 18"
342 FT S.S. REMOVAL 18"
15 FT S.S. REMOVAL 12"
18 FT S.S. REMOVAL 12"
21 FT S.S. REMOVAL 12"
EX 18" SS
EXIST. ROW
PALATINE ROAD
L/BED
EXISTING DRAINAGE PLAN
GLENWOOD STREET
STA 234+04 38' - 6" PUD
STA 235+84 40' - 6" PUD
STA 236+02 40' - 6" PUD
PROPOSED DRAINAGE PLAN
SCALE:HORIZ: 1"=20' VERT: 1"=5'
℄ GLENWOOD STREET
PROPOSED ℄ PROFILE
EXISTING ℄ PROFILE
PROP 12" N, INV. 739.98
PROP 12" S, INV. 742.83
PROP 24" E/W, INV. 739.48
PROP 12" N, INV. 740.00
PROP 12" S, INV. 740.37
PROP 24" E/W, INV. 739.80
332 FT 24" @ 0.22% - SST2
175 FT 24" @ 0.18% - SST2
324 FT 15" @ 0.19% - SST2
8" SANITARY SEWER
6" WATER, DEPTH UNKNOWN CONTRACTOR TO VERIFY
EXIST. ELEV.
PROP. ELEV.
ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
DRAINAGE PLAN AND PROFILE
STA 231+50.00 TO STA 237+50.00
MAY 10, 2009
DU-6

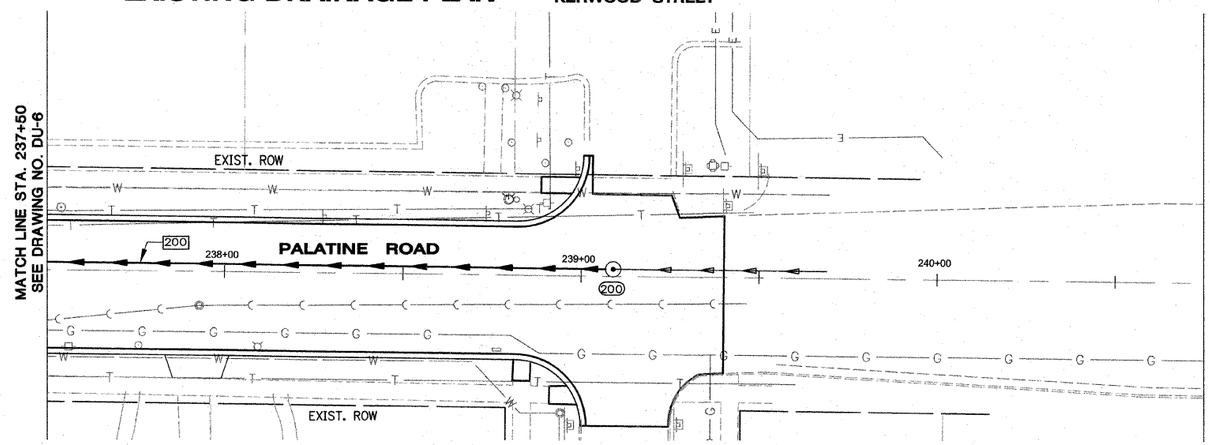
CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	50
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

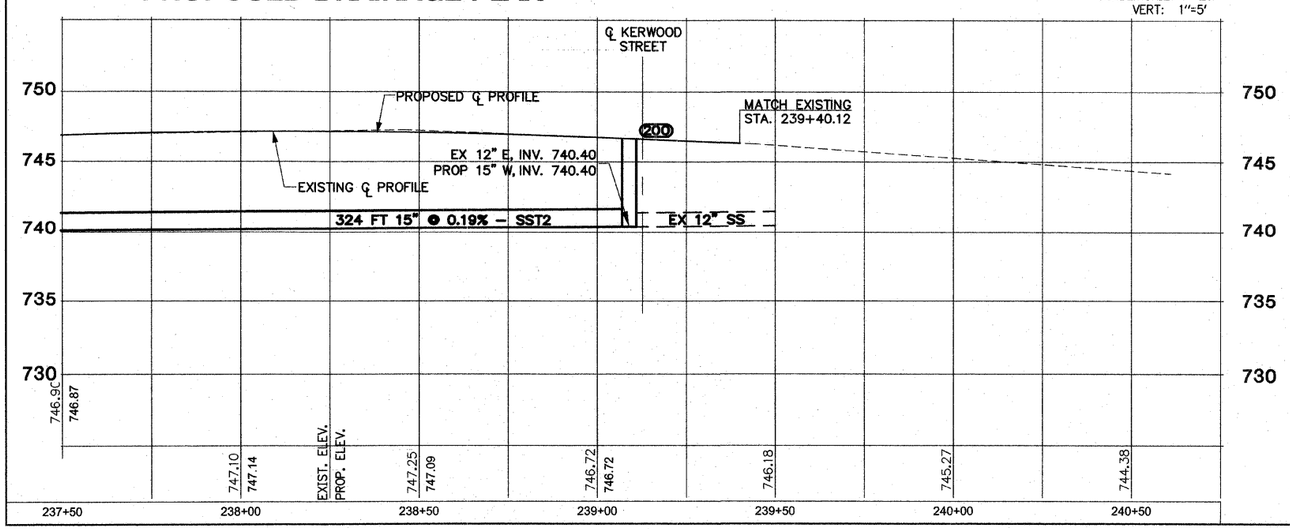
PLAN | DATE | BY | SURVEYED | PLOTTED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO.



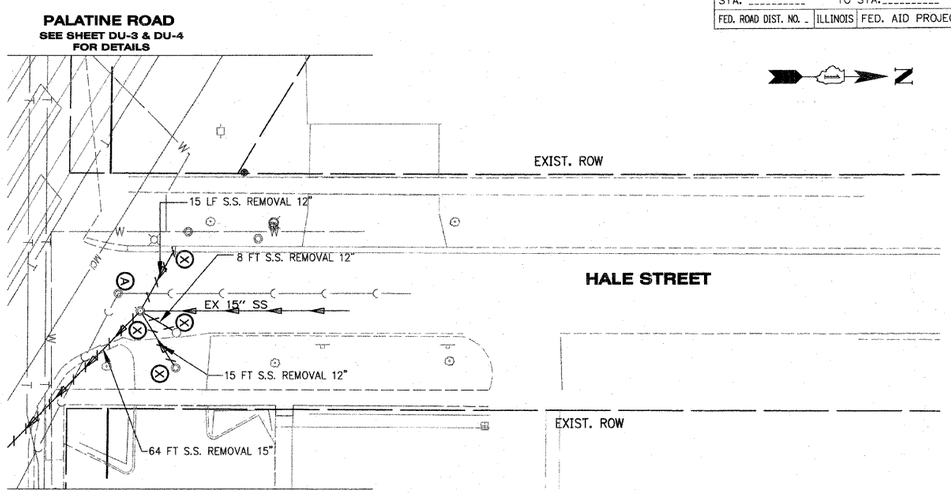
EXISTING DRAINAGE PLAN



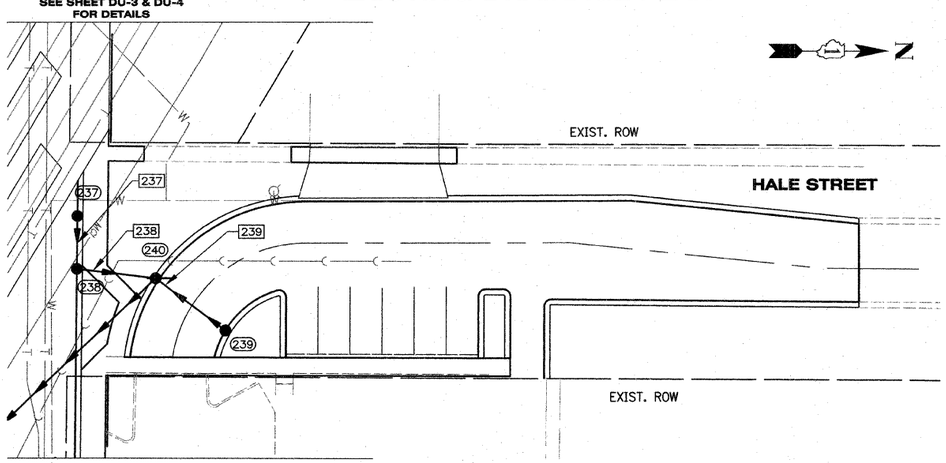
PROPOSED DRAINAGE PLAN



PROFILE | DATE | BY | SURVEYED | PLOTTED | ALIGNMENT CHECKED | R.O.W. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK | NO.



EXISTING DRAINAGE PLAN



PROPOSED DRAINAGE PLAN

LEGEND

EXISTING STORM SEWER	(X)	REMOVE	
STORM SEWER REMOVAL	(A)	ADJUST	
PROPOSED STORM SEWER	(AB)	ABANDON	
PROPOSED MANHOLE	XX	PROPOSED STORM SEWER (SEE DU-11 FOR SCHEDULE)	
PROPOSED CATCH BASIN	XX	PROPOSED DRAINAGE STRUCTURE (SEE DU-11 FOR SCHEDULE)	

ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
DRAINAGE PLAN AND PROFILE
STA 237+50.00 TO STA 239+40.12

MAY 10, 2009

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	51

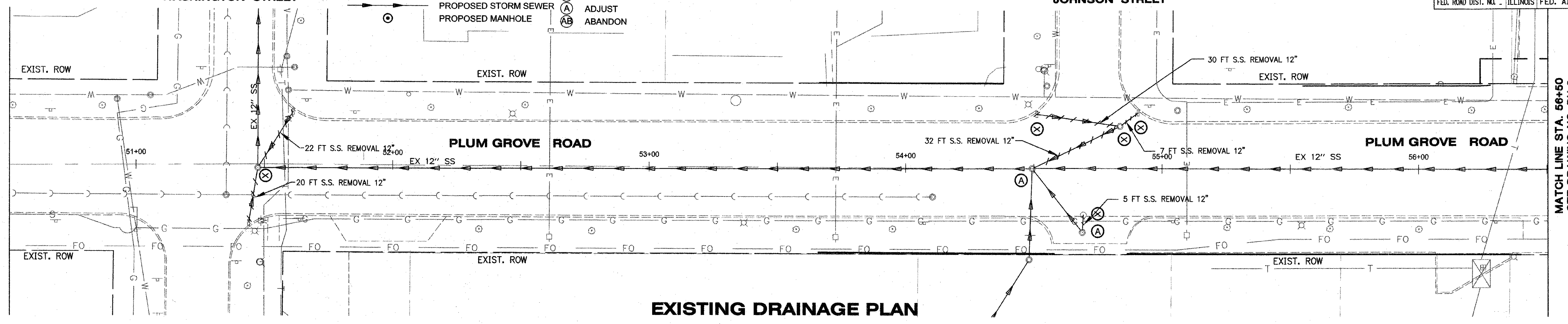
CONTRACT NO. 63083

STA. ________ TO STA. ________

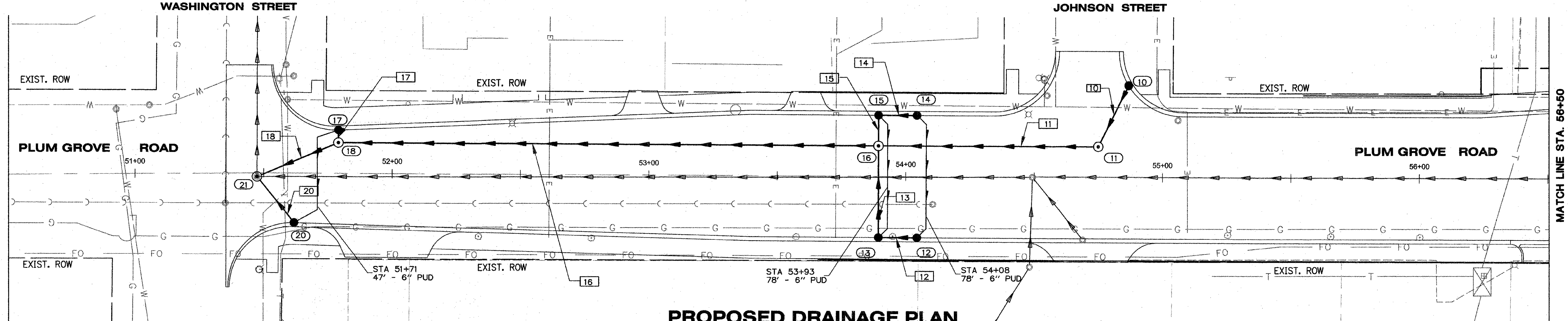
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT

LEGEND

- EXISTING STORM SEWER
- STORM SEWER REMOVAL
- PROPOSED STORM SEWER
- PROPOSED MANHOLE
- PROPOSED CATCH BASIN
- (X) REMOVE
- (A) ADJUST
- (AB) ABANDON
- [XX] PROPOSED STORM SEWER (SEE DU-11 FOR SCHEDULE)
- (XX) PROPOSED DRAINAGE STRUCTURE (SEE DU-11 FOR SCHEDULE)

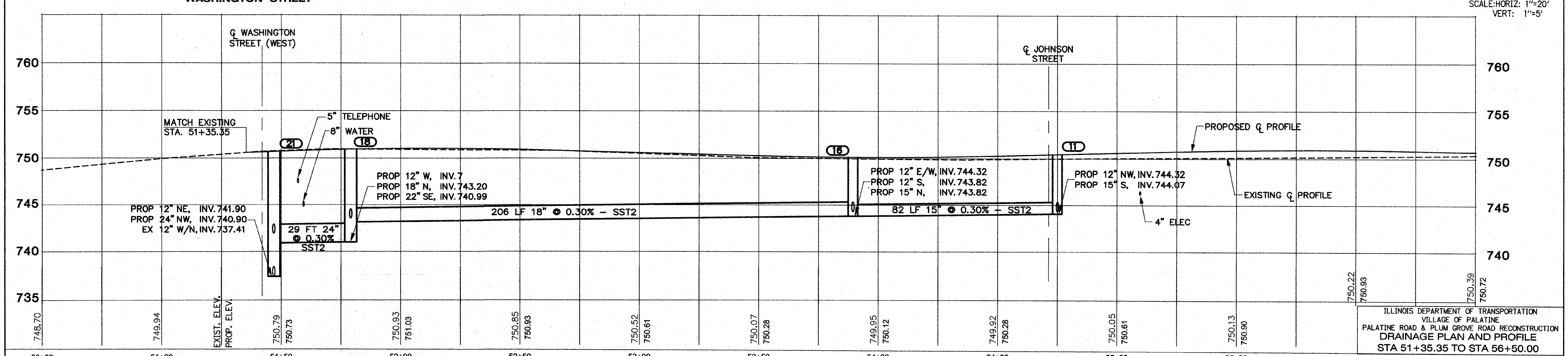


EXISTING DRAINAGE PLAN



PROPOSED DRAINAGE PLAN

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



℄ WASHINGTON STREET (WEST)
℄ JOHNSON STREET
MATCH EXISTING STA. 51+35.35
5" TELEPHONE
8" WATER
PROPOSED ℄ PROFILE
EXISTING ℄ PROFILE
PROP 12" NE, INV. 741.90
PROP 24" NW, INV. 740.90
EX 12" W/N, INV. 737.41
29 FT 24" @ 0.30% SST2
PROP 12" W, INV. 7
PROP 18" N, INV. 743.20
PROP 22" SE, INV. 740.99
206 LF 18" @ 0.30% - SST2
PROP 12" E/W, INV. 744.32
PROP 12" S, INV. 743.82
PROP 15" N, INV. 743.82
82 LF 15" @ 0.30% - SST2
PROP 12" NW, INV. 744.32
PROP 15" S, INV. 744.07
4" ELEC
760
755
750
745
740
735
EXIST. ELEV.
PROP. ELEV.
50+50
51+00
51+50
52+00
52+50
53+00
53+50
54+00
54+50
55+00
55+50
56+00
56+50

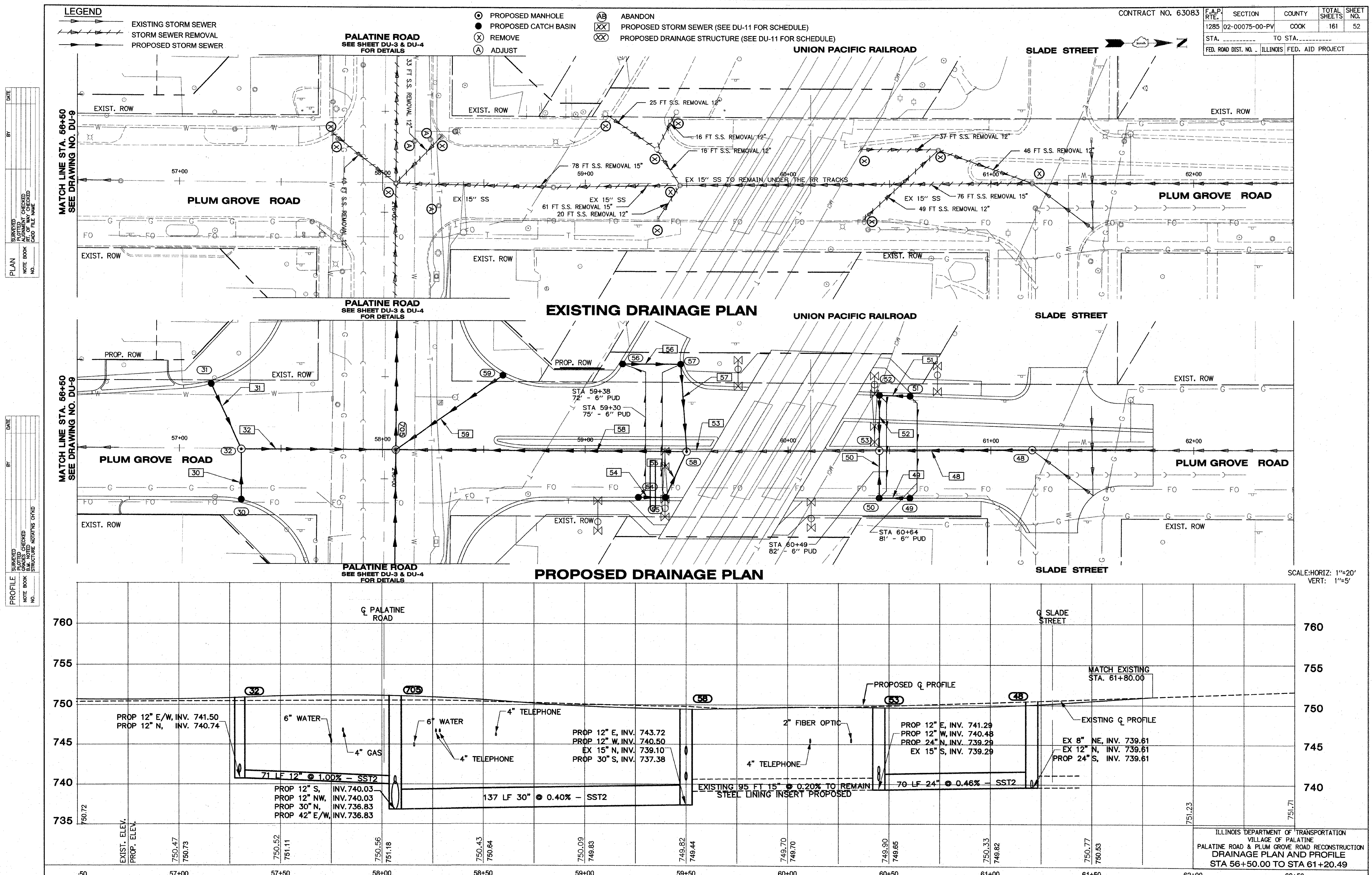
ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION

DRAINAGE PLAN AND PROFILE

STA 51+35.35 TO STA 56+50.00

MAY 10, 2009

DU-8



LEGEND
EXISTING STORM SEWER
STORM SEWER REMOVAL
PROPOSED STORM SEWER
PROPOSED MANHOLE
PROPOSED CATCH BASIN
REMOVE
ADJUST
ABANDON
PROPOSED STORM SEWER (SEE DU-11 FOR SCHEDULE)
PROPOSED DRAINAGE STRUCTURE (SEE DU-11 FOR SCHEDULE)
CONTRACT NO. 63083
F.A.P. RTE. 1285
SECTION 02-00075-00-PV
COUNTY COOK
TOTAL SHEETS 161
SHEET NO. 52
STA. TO STA.
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
PALATINE ROAD
SEE SHEET DU-3 & DU-4 FOR DETAILS
UNION PACIFIC RAILROAD
SLADE STREET
MATCH LINE STA. 56+50 SEE DRAWING NO. DU-9
PLUM GROVE ROAD
EXIST. ROW
25 FT S.S. REMOVAL 12"
16 FT S.S. REMOVAL 12"
16 FT S.S. REMOVAL 12"
78 FT S.S. REMOVAL 15"
33 FT S.S. REMOVAL 12"
10 FT S.S. REMOVAL 12"
37 FT S.S. REMOVAL 12"
46 FT S.S. REMOVAL 12"
EX 15" SS TO REMAIN UNDER THE RR TRACKS
EX 15" SS
61 FT S.S. REMOVAL 15"
20 FT S.S. REMOVAL 12"
76 FT S.S. REMOVAL 15"
49 FT S.S. REMOVAL 12"
EXISTING DRAINAGE PLAN
PROP. ROW
STA 59+38 72' - 6" PUD
STA 59+30 75' - 6" PUD
STA 60+49 82' - 6" PUD
STA 60+64 81' - 6" PUD
PROPOSED DRAINAGE PLAN
SCALE: HORIZ: 1"=20' VERT: 1"=5'
℄ PALATINE ROAD
℄ SLADE STREET
MATCH EXISTING STA. 61+80.00
PROPOSED ℄ PROFILE
EXISTING ℄ PROFILE
PROP 12" E/W, INV. 741.50
PROP 12" N, INV. 740.74
6" WATER
4" GAS
6" WATER
4" TELEPHONE
4" TELEPHONE
PROP 12" E, INV. 743.72
PROP 12" W, INV. 740.50
EX 15" N, INV. 739.10
PROP 30" S, INV. 737.38
2" FIBER OPTIC
4" TELEPHONE
PROP 12" E, INV. 741.29
PROP 12" W, INV. 740.48
PROP 24" N, INV. 739.29
EX 15" S, INV. 739.29
EX 8" NE, INV. 739.61
EX 12" N, INV. 739.61
PROP 24" S, INV. 739.61
71 LF 12" @ 1.00% – SST2
PROP 12" S, INV. 740.03
PROP 12" NW, INV. 740.03
PROP 30" N, INV. 736.83
PROP 42" E/W, INV. 736.83
137 LF 30" @ 0.40% – SST2
EXISTING 95 FT 15" @ 0.20% TO REMAIN
STEEL LINING INSERT PROPOSED
70 LF 24" @ 0.46% – SST2
EXIST. ELEV.
PROP. ELEV.
ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
DRAINAGE PLAN AND PROFILE
STA 56+50.00 TO STA 61+20.49
MAY 10, 2009
DU-9

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	53
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083

DRAWING NO. DU-1
STA. 202+83.31 TO STA. 207+50

(100)
STATION=203+04.47, 18.82 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=746.05
INV. S=740.50

100
19 LF 12" @ 1.00% - SST2

(101)
STATION=203+04.56, 16.03 RT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=746.05
INV. N=736.75

101
10 FT 12" @ 1.00 - SST2

(102)
STATION=203+04.52, 1.31 RT
MANHOLE, TYPE A, 5'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=746.14
INV. N=740.31
INV. S=736.65
INV. W=734.78 (EX)
INV. E=734.76 (EX)

102
116 FT EX. 36" @ 0.26% - SST2

(103)
STATION=204+25.00, 15.06 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=746.59
INV. S=741.26

103
12 FT 12" @ 1.00% - SST2

(104)
STATION=204+25.00, 20.04 RT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=746.41
INV. N=736.59

104
14 FT 12" @ 1.00% - SST2

(105)
STATION=204+25.00, 1.29 RT
MANHOLE, TYPE A, 5'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=746.94
INV. N=741.14
INV. S=736.45
INV. E=734.46 (EX)
INV. W=734.45 (EX)

105
171 FT EX. 36" @ 0.26% - SST2

(106)
STATION=205+84.34, 46.66 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=747.04
INV. W=737.11

106
18 FT 12" @ 1.00% - SST2

(107)
STATION=206+06.35, 46.78 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=747.11
INV. S=736.43
INV. W=736.93

107
43 FT 12" @ 1.00% - SST2

(108)
STATION=206+00.69, 1.24 RT
MANHOLE, TYPE A, 5' DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=748.10
INV. N=736.00
INV. W=734.00
INV. S=734.00 (EX)

DRAWING NO. DU-2
STA. 207+50 TO STA. 213+50

(300)
STATION=207+50.00, 24.00 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=746.81
INV. E=738.48

300
15 FT 12" @ 1.00% - SST2

(301)
STATION=207+50.00, 24.00 RT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=746.81
INV. N=739.58

301
25 FT 12" @ 1.00% - SST2

(302)
STATION=207+50.00, 5.07 LT
MANHOLE, TYPE A, 5'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=747.27
INV. N=739.33
INV. S=739.33
INV. W=737.33

302
166 FT 36" @ 0.46% - SST2

(303)
STATION=208+96.77, 39.85 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=747.67
INV. E=739.13

303
19 FT 12" @ 1.00% - SST2

(304)
STATION=209+53.81, 40.13 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=747.47
INV. W=741.18

304
27 FT 12" @ 1.00% - SST2

(305)
STATION=209+20.49, 39.96 LT
MANHOLE, TYPE A, 4'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=747.68
INV. N=736.77
INV. W=738.94
INV. E=740.91
INV. S=736.72

305
30 FT 15" @ 1.00% - SST2

(307)
STATION=209+20.71, 6.27 LT
MANHOLE, TYPE A, 4'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=748.23
INV. N=736.57
INV. W=736.57
INV. S=736.57

307
60 FT 36" @ 0.28% - SST2

(308)
STATION=209+26.84, 57.84 RT
MANHOLE, TYPE A, 5'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=747.31
INV. N=736.40
INV. S=736.40 (EX)

(500)
STATION=211+40.00, 24.00 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=746.50
INV. E=740.95

500
6 FT 12" @ 1.00% - SST2

(501)
STATION=211+50.00, 24.00 RT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=745.53
INV. S=740.89
INV. W=740.89

501
15 FT 12" @ 1.00% - SST2

(502)
STATION=211+35.00, 36.00 RT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=745.26
INV. E=742.00

502
11 FT 12" @ 1.0% - SST2

(503)
STATION=211+50.00, 36.00 RT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=745.29
INV. W=741.89
INV. E=741.89

503
3 FT 12" @ 1.0% - SST2

(504)
STATION=211+57.00, 36.00 RT
MANHOLE, TYPE A, 4'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=745.31
INV. N=739.53
INV. S=(CONNECT EX)
INV. W=741.86

504
38 FT 15" @ 1.00% - SST2

(505)
STATION=211+56.38, 5.00 LT
MANHOLE, TYPE A, 5'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=746.01
INV. N=740.74
INV. S=739.15
INV. E=737.98

505
77 FT 24" @ 0.55% - SST2

(506)
STATION=212+38.17, 6.43 LT
MANHOLE, TYPE A, 5'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=747.14
INV. W=737.56
INV. E=737.56
INV. N=(CONNECT EX)

506
12 FT 24" @ 0.50% - SST2

(708)
STATION=212+55.91, 6.16 LT
MANHOLE, TYPE A, 6'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=747.61
INV. W=737.50
INV. E=736.50
INV. N=736.50 (EX)
INV. S=736.50 (EX)

(708A)
STATION=212+99.90, 6.08 LT
MANHOLE, TYPE A, 6'-DIA.,
PRECAST FLAT SLAB TOP
TYPE 1 FRAME, CLOSED LID
RIM=748.86
INV. W=736.54
INV. E=736.54
INV. N=745.40
INV. S=738.67

708A
39 FT 42" @ 0.10% - SST2

(707)
STATION=213+00.00, 46.25 RT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=747.97
INV. N=739.15

707
48 FT 12" @ 1.00% - SST2

(706)
STATION=213+00.00, 27.24 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=748.35
INV. S=745.58

706
18 FT 12" @ 1.00% - DIP

DRAWING NO. DU-3
STA. 213+50 TO STA. 219+50

(705)
STATION=215+85.71, 5.53 LT
MANHOLE, TYPE A, 7'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=750.94
INV. N=736.83
INV. S=740.03
INV. NW=740.03
INV. W/E=736.83

705
280 FT 42" @ 0.10% - SST2

(704)
STATION=218+16.61, 6.02 LT
MANHOLE, TYPE A, 7'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=748.38
INV. NW=742.66
INV. W=737.05
INV. S=742.66
INV. E=737.05

704
224 FT 42" @ 0.10% - SST2

(703)
STATION=217+89.30, 35.00 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=747.66
INV. W=745.90
INV. SE=743.00

703
34 FT 12" @ 1.00% - SST2

(702)
STATION=217+74.30, 35.00 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=747.71
INV. E=747.00

702
11 FT 12" @ 1.00% - SST2

(701)
STATION=218+09.30, 35.00 RT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 1 FRAME, AND GRATE
RIM=747.74
INV. W=743.60
INV. N=743.02

701
36 FT 12" @ 1.00% - SST2

(700)
STATION=217+94.31, 35.00 RT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 1 FRAME, AND GRATE
RIM=747.70
INV. W=743.71

700
11 FT 12" @ 1.00% - SST2

241
147 FT EX. 36" @ 0.31%

DRAWING NO. DU-4
STA. 219+50 TO STA. 225+50

(241A)
STATION=220+10.14, 5.78 LT
MANHOLE, TYPE A, 6'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=748.27
INV. N=742.57
INV. S=742.57
INV. E=737.54
INV. W=737.54

241A
34 FT 42" @ 0.10% - SST2

(241)
STATION=219+69.69, 5.88 LT
MANHOLE, TYPE A, 7'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=748.40
INV. NW=739.82
INV. W=737.50
INV. E=737.50

240
64 FT 15" @ 1.00% - SST2

(236)
STATION=220+10.21, 35.00 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=747.61
INV. E=743.33
INV. SW=742.81

236
24 FT 12" @ 1.00% - SST2

(235)
STATION=220+25.06, 35.00 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=747.57
INV. W=743.44

235
11 FT 12" @ 1.00% - SST2

(234)
STATION=220+22.25, 35.00 RT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=747.61
INV. NW=742.93
INV. E=743.50

234
36 FT 12" @ 1.00% - SST2

(233)
STATION=220+37.25, 35.00 RT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=747.62
INV. W=743.61

233
11 FT 12" @ 1.00% - SST1

(232)
STATION=222+44.92, 5.17 LT
MANHOLE, TYPE A, 5'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=748.26
INV. N=738.12
INV. W=737.77
INV. E=737.77

232
230 FT 42" @ 0.10% - SST2

(231B)
STATION=222+28.65, 42.44 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 1 FRAME, AND GRATE
RIM=748.00
INV. E=742.00

231B
12 FT 12" @ 1.00% - SST2

(231A)
STATION=222+55.14, 42.72 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 1 FRAME, AND GRATE
RIM=748.11
INV. W=741.94

231A
6 FT 12" @ 1.00% - SST2

(231)
STATION=220+44.79, 42.61 LT
MANHOLE, TYPE A, 4'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=748.31
INV. N=738.78 (EX)
INV. S=738.78
INV. E=741.88
INV. W=741.88

231
33 FT 12" @ 2.00% - SST2

(230)
STATION=223+80.24, 5.24 LT
MANHOLE, TYPE A, 5'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=748.84
INV. N=745.29
INV. S=740.67
INV. W=737.90
INV. E=737.90

230
130 FT 42" @ 0.10% - SST2

(229)
STATION=223+80.21, 18.14 LT
CATCH BASIN, TYPE C, 2'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=748.50
INV. S=739.95
INV. W=745.39

229
10 FT 12" @ 1.00% - SST2

(228)
STATION=223+67.71, 18.13 LT
CATCH BASIN, TYPE C, 2'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=748.56
INV. E=745.50

228
11 FT 12" @ 1.00% - SST2

(227)
STATION=223+80.22, 31.84 RT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=748.22
INV. N=741.00
INV. W=741.00

227
33 FT 12" @ 1.00% - SST2

(226)
STATION=223+67.73, 32.25 RT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=748.27
INV. E=741.11

226
11 FT 12" @ 1.00% - SST2

DRAWING NO. DU-5
STA. 225+50 TO STA. 231+50

(225)
STATION=226+35.95, 5.00 LT
MANHOLE, TYPE A, 5'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=752.55
INV. W=738.15
INV. E=738.15

225
251 FT 42" @ 0.10% - SST2

(224)
STATION=228+94.74, 4.41 LT
MANHOLE, TYPE A, 6'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=752.96
INV. N=738.40
INV. NW=747.02
INV. E=738.40
INV. W=738.40

224
253 FT 42" @ 0.10% - SST2

(223)
STATION=228+77.07, 18.93 LT
CATCH BASIN, TYPE C, 2'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=750.67
INV. SE=747.20

223
18 FT 12" @ 1.00% - SST2

(222)
STATION=228+95.31, 37.19 LT
MANHOLE, TYPE A, 5'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=751.04
INV. E=744.80
INV. NW=744.80
INV. N= (EX)
INV. S=738.48

222
27 FT 30" @ 0.30% - SST2

(221)
STATION=228+90.37, 43.16 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=750.93
INV. SE=745.40

221
3 FT 12" @ 1.00% - SST2

(220)
STATION=229+18.62, 42.85 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=750.93
INV. W=745.00

220
20 FT 12" @ 1.00% - SST2

(219)
STATION=229+63.50, 4.08 LT
MANHOLE, TYPE A, 5'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=749.75
INV. S=745.09 (CONNECT EX)
INV. W=738.54
INV. E=738.54

219
63 FT 36" @ 0.22% - SST2

(217)
STATION=230+62.81, 3.57 LT
MANHOLE, TYPE A, 5'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=748.57
INV. E=738.75
INV. W=738.75
INV. N=740.75
INV. S=740.75

217
94 FT 36" @ 0.22% - SST2

(216)
STATION=230+70.00, 18.00 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=748.20
INV. S=740.87
INV. E=741.37

216
12 FT 12" @ 1.00% - SST2

(215)
STATION=203+85.09, 18.00 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=749.10
INV. W=741.48

215
11 FT 12" @ 1.00% - SST2

(214)
STATION=230+70.05, 18.00 RT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=748.20
INV. N=740.93
INV. E=741.43

214
18 FT 12" @ 1.00% - SST2

(213)
STATION=230+84.51, 18.00 RT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=749.10
INV. W=741.54

213
11 FT 12" @ 1.00% - SST2

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

DRAINAGE CALLOUTS

SCALE: VERT.
HORIZ.
DRAWN BY
DATE OCTOBER 19, 2009
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	54
STA. _____	TO STA._____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083

DRAWING NO. DU-6
STA. 231+50 TO STA. 237+50

(212)
STATION=234+00.00, 2.36 RT
MANHOLE, TYPE A, 5'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=747.82
INV. W=739.48
INV. E=739.48
INV. S=742.83
INV. N=739.98

[212]

332 FT 24" @ 0.22% - SST2

(211)
STATION=234+00.00 18.00 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=747.59
INV. S=740.09

[211]

11 FT 12" @ 1.00% - SST2

(210)
STATION=234+00.00, 18.00 RT
CATCH BASIN, TYPE C, 2'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=747.59
INV. N=743.00

[210]

17 FT 12" @ 1.00% - SST2

(209)
STATION=235+80.48 2.47 LT
MANHOLE, TYPE A, 5'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=746.00
INV. E=739.80
INV. W=739.80
INV. N=740.00
INV. S=740.37

[209]

175 FT 24" @ 0.18% - SST1

(208)
STATION=235+80.21, 18.00 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=745.61
INV. W=740.11
INV. W=740.11
INV. S=740.11

[208]

11 FT 12" @ 0.50% - SST2

(207)
STATION=235+36.32, 18.00 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=745.95
INV. E=740.51

[207]

40 FT 12" @ 1.00% - SST1

(206)
STATION=235+98.34, 18.00 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=745.55
INV. W=740.25

[206]

14 FT 12" @ 1.00% - SST2

(205)
STATION=235+81.10, 23.80 RT
MANHOLE, TYPE A, 4'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=745.72
INV. N=740.59
INV. W=740.59
INV. E=740.59

[205]

22 FT 15" @ 1.00% - SST2

(204)
STATION=235+98.06, 23.65 RT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=746.59
INV. E=740.72
INV. W=740.72

[204]

13 FT 12" @ 1.00% - SST1

(203)
STATION=236+15.89, 18.00 RT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=745.53
INV. W=740.88

[203]

16 FT 12" @ 1.00% - SST1

(202)
STATION=235+66.86, 23.92 RT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=745.80
INV. W=740.71
INV. E=740.71

[202]

10 FT 12" @ 1.00% - SST2

(201)
STATION=235+36.32, 18.00 RT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=745.95
INV. E=741.00

[201]

29 FT 12" @ 1.00% - SST1

DRAWING NO. DU-7
STA. 237+50 TO STA. 239+40.12

(200)
STATION=239+09.00, 2.02 LT
MANHOLE, TYPE A, 4'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=746.59
INV. W=740.40
INV. E=740.40 (EX)

[200]

324 FT 15" @ 0.19% - SST2

(237)
STATION=219+02.69, 35.00 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=748.20
INV. E=743.11

[237]

11 FT 12" @ 1.00% - SST1

(238)
STATION=219+17.69 35.00 RT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=748.27
INV. W=743.00
INV. NE=743.00

[238]

20 FT 12" @ 1.00% - SST2

(240)
STATION=219+20.09, 57.11 LT
CATCH BASIN, TYPE A, 5'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=748.70
INV. NE=744.30
INV. SW=742.82
INV. SE=740.47

(239)
STATION=219+34.52, 76.86 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=748.70
INV. SW=744.50

[239]

20 FT 12" @ 1.00% - SST2

DRAWING NO. DU-8
STA. 51+35.35 TO STA. 57+00

(21)
STATION=51+47.44, 1.46 RT
MANHOLE, TYPE A, 4' DIA.,
TYPE 1 FRAME, CLOSED LID,
RIM=750.14
INV. NW=740.90
INV. NE=741.90
INV. W=737.41 (EX)
INV. N=737.41 (EX)

(20)
STATION=51+61.88, 19.50 RT
CATCH BASIN, TYPE C, 2'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=750.37
INV. W=742.10

[20]

20 FT 12" @ 1.00% - SST2

(18)
STATION=51+73.08, 11.97 LT
MANHOLE, TYPE A, 5'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=750.68
INV. W=743.65
INV. N=743.20
INV. SE=740.99

[18]

29 FT 24" @ 0.30% - SST2

(17)
STATION=51+73.08, 16.96 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=750.50
INV. E=743.73

[17]

5 FT 12" @ 1.00% - SST2

(18)
STATION=53+89.39, 13.75 LT
MANHOLE, TYPE A, 4'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=749.85
INV. E=744.32
INV. W=744.32
INV. N=743.82
INV. S=743.82

[16]

206 FT 18" @ 0.30% - SST2

(15)
STATION=53+89.38 24.00 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=749.56
INV. N=744.90
INV. E=744.40

[15]

8 FT 12" @ 1.00% - SST2

(14)
STATION=54+04.28, 24.00 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=749.75
INV. S=745.01

[14]

11 FT 12" @ 1.00% - SST2

(13)
STATION=53+89.40, 24.00 RT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=749.56
INV. N=745.18
INV. W=744.64

[13]

32 FT 12" @ 1.00% - SST2

(12)
STATION=54+04.40, 24.00 RT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=749.75
INV. S=745.29

[12]

11 FT 12" @ 1.00% - SST1

(11)
STATION=54+74.96, 12.00 LT
MANHOLE, TYPE A, 4'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=750.17
INV. NW=744.32
INV. S=744.07

[11]

82 FT 15" @ 0.30% - SST1

(10)
STATION=54+86.75, 35.85 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=749.69
INV. SE=744.55

[10]

23 FT 12" @ 1.00% - SST1

DRAWING NO. DU-9
STA. 57+00 TO STA. 61+20.49

(32)
STATION=57+30.47, 0.38 RT
MANHOLE, TYPE A, 4'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=750.91
INV. N=740.74
INV. W=741.50
INV. E=741.50

[32]

71 FT 12" @ 1.00% - SST2

(31)
STATION=57+14.80, 33.24 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=750.06
INV. E=741.81

[31]

31 FT 12" @ 1.00% - SST2

(30)
STATION=57+29.90, 26.55 RT
CATCH BASIN, TYPE A, 5'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=750.31
INV. W=741.71

[30]

21 FT 12" @ 1.00% - SST2

(59)
STATION=58+59.39, 36.23 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=750.66
INV. SW=740.62

[59]

59 FT 12" @ 1.00% - SST2

(58)
STATION=59+50.00, 0.86 RT
MANHOLE, TYPE A, 5'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=749.47
INV. E=743.72
INV. W=740.50
INV. N=739.10
INV. S=737.38

[58]

137 FT 30" @ 0.40% - SST2

(57)
STATION=59+47.04, 42.01 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=749.64
INV. S=743.65
INV. E=740.89

[57]

39 FT 12" @ 1.00% - SST2

(56)
STATION=59+18.39, 40.02 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=750.14
INV. N=743.90

[56]

25 FT 12" @ 1.00% - SST2

(55)
STATION=59+39.56, 23.50 RT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=748.16
INV. S=743.93
INV. W=743.93

[55]

21 FT 12" @ 1.00% - SST2

(54)
STATION=59+26.25, 23.50 RT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=738.18
INV. N=743.89

[54]

9 FT 12" @ 1.00% - SST2

(53)
STATION=60+44.96, 0.25 RT
MANHOLE, TYPE A, 4'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=749.60
INV. N=739.29
INV. S=739.29
INV. W=740.48
INV. E=741.29

[53]

95 FT EX 15" @ 0.20%

(52)
STATION=60+44.97, 26.50 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=749.07
INV. N=741.52
INV. E=740.71

[52]

23 FT 12" @ 1.00% - SST2

(51)
STATION=60+60.08, 26.50 LT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=749.04
INV. S=743.63

[51]

11 FT 12" @ 1.00% - SST2

(50)
STATION=50+44.96, 25.50 RT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=749.07
INV. N=741.48
INV. E=741.48

[50]

19 FT 12" @ 1.00% - SST2

(49)
STATION=60+60.00, 25.50 RT
CATCH BASIN, TYPE A, 4'-DIA.,
TYPE 11 FRAME, AND GRATE
RIM=749.04
INV. S=743.59

[49]

11 FT 12" @ 1.00% - SST2

(48)
STATION=61+20.40, 0.26 LT
MANHOLE, TYPE A, 5'-DIA.,
TYPE 1 FRAME, CLOSED LID
RIM=750.02
INV. NE=739.61 (EX)
INV. N=739.61
INV. S=739.61

[48]

70 FT 24" @ 0.46% - SST2

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

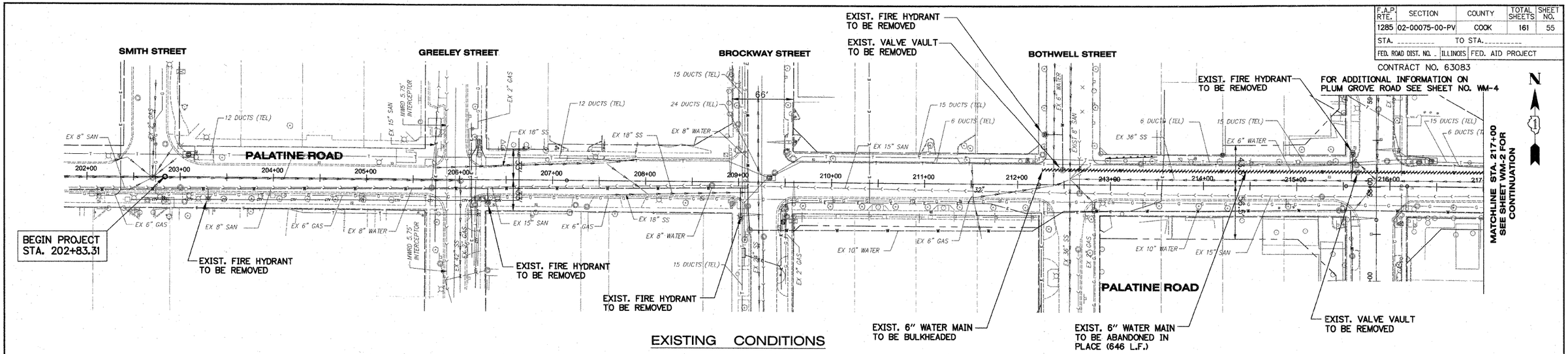
DRAINAGE CALLOUTS

SCALE: VERT.
HORIZ.
DATE OCTOBER 19, 2009

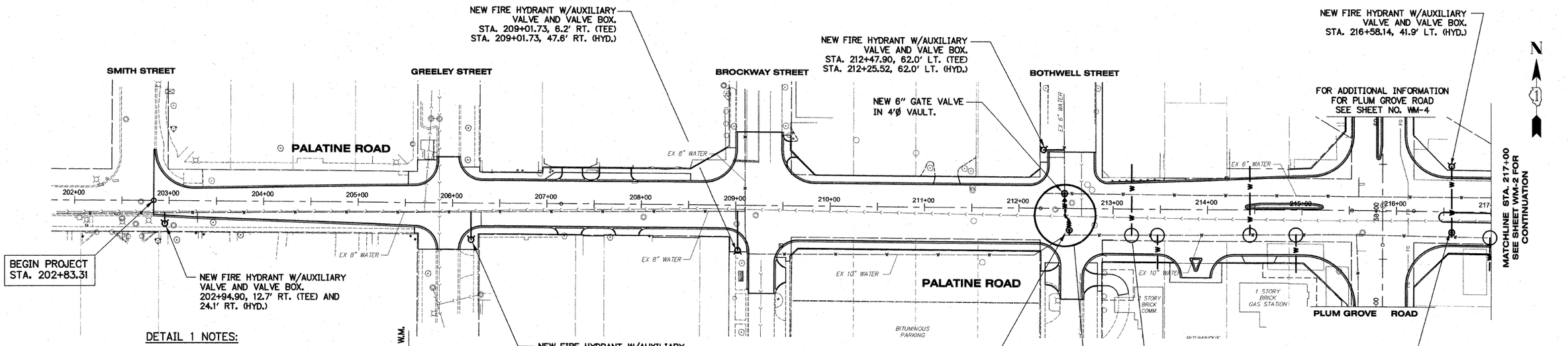
DRAWN BY
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	55
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083



EXISTING CONDITIONS

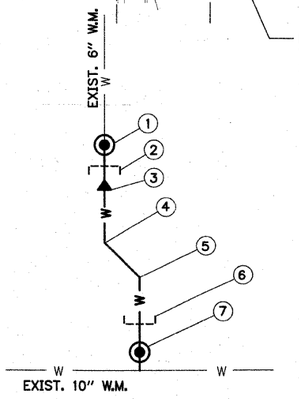


PROPOSED IMPROVEMENTS

DETAIL 1 NOTES:

1. 6" GATE VALVE IN 4'Ø VAULT. STA. 212+48.48, 15.9' LT.
2. TEMPORARY CAP, AFTER CHLORINATION REMOVE CAP AND TIE INTO EXISTING 6" WATER MAIN (SWAB WITH CHLORINE)
3. 8" X 6" REDUCER
4. 8" x 45° BEND STA. 212+48.70, 7.9' RT.
5. 8" x 45° BEND STA. 212+53.14, 12.3' RT.
6. TEMPORARY CAP, AFTER CHLORINATION REMOVE CAP AND TIE INTO EXISTING 6" WATER MAIN (SWAB WITH CHLORINE)
7. 8" GATE VALVE IN 5'Ø VAULT, TAPPING VALVE & SLEEVE (10"x8" PRESSURE CONNECTION) STA. 212+53.14, 27.9' RT.

40 L.F. OF 8" D.IP. WATER MAIN
10 L.F. OF 6" D.I.P. WATER MAIN



DETAIL 1

NOTE: ALL THE DUCTILE IRON WATER MAIN PIPE SHALL BE CLASS 52.

SEE THE VILLAGE OF PALATINE'S WATER MAIN DETAILS SHEET (WM-5) FOR THE FIRE HYDRANT DETAILS AND MANUFACTURER.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE

PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

WATER MAIN PLAN - PALATINE ROAD STA. 202+83.31 TO STA. 217+00

SCALE: VERT.
HORIZ.

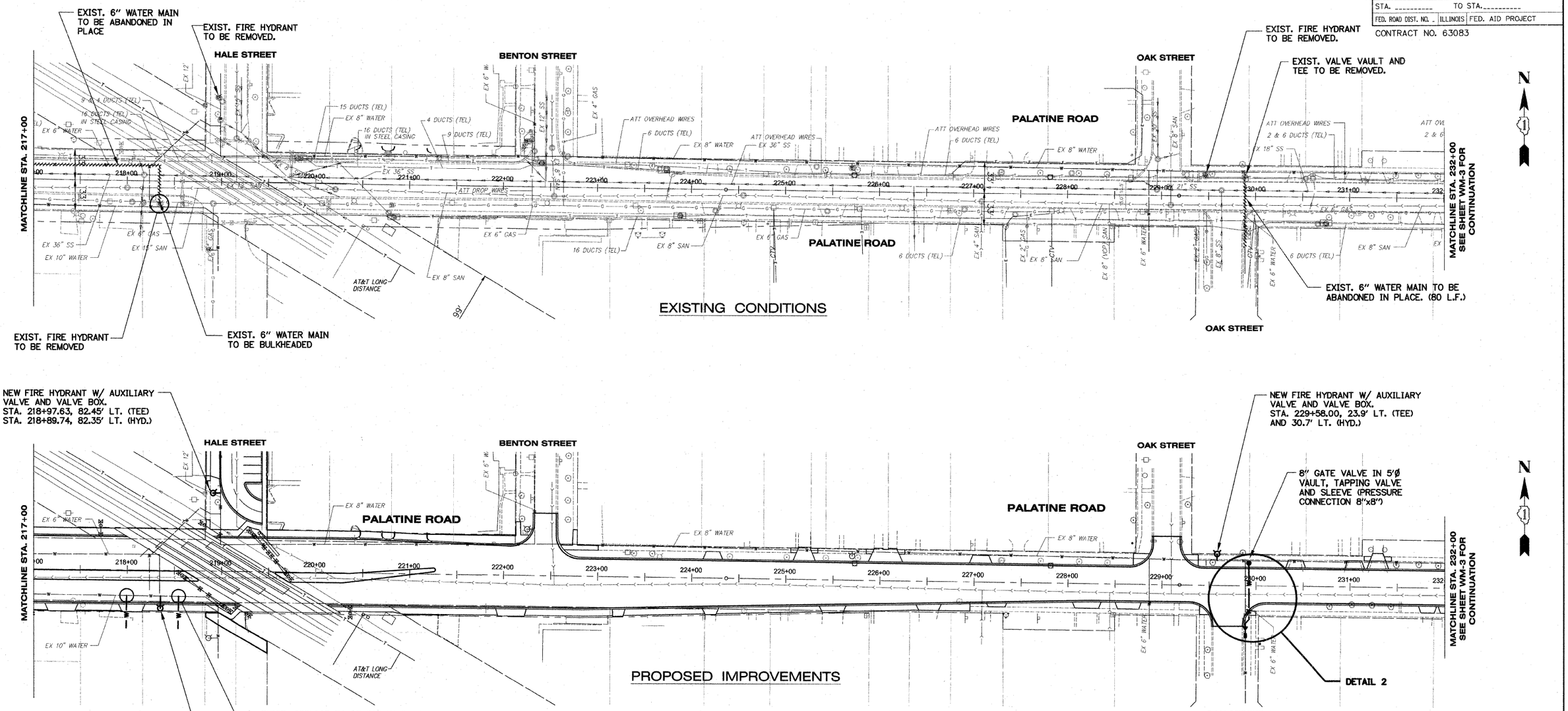
DRAWN BY

DATE OCTOBER 19, 2009

CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	56
STA. _____	TO STA._____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083



DETAIL 2 NOTES:

1 8" GATE VALVE IN 5'Ø VAULT. TAPPING VALVE & SLEEVE (8"x8" PRESSURE CONNECTION) STA. 229+92.07, 23.9' LT.

2. 8" x 45° BEND STA. 229+92.01, 35.8' RT.

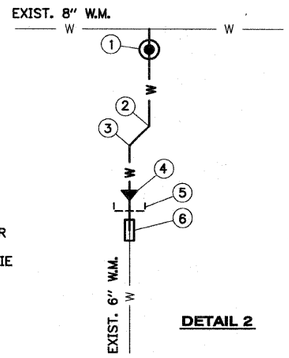
3. 8" x 45° BEND STA. 229+88.64, 42.4' RT.

4. 8" X 6" REDUCER

5. TEMPORARY CAP TO BE INSTALLED. AFTER CUTTING THE EXIST. 6" W.M., REMOVE TEMPORARY CAP AND CHLORINATE AND TIE INTO EXISTING 6" WATER MAIN WITH:

6. 6" TRANSITION SLEEVE

70 L.F. OF 8" D.I.P. WATER MAIN
10 L.F. OF 6" D.I.P. WATER MAIN



DETAIL 2

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

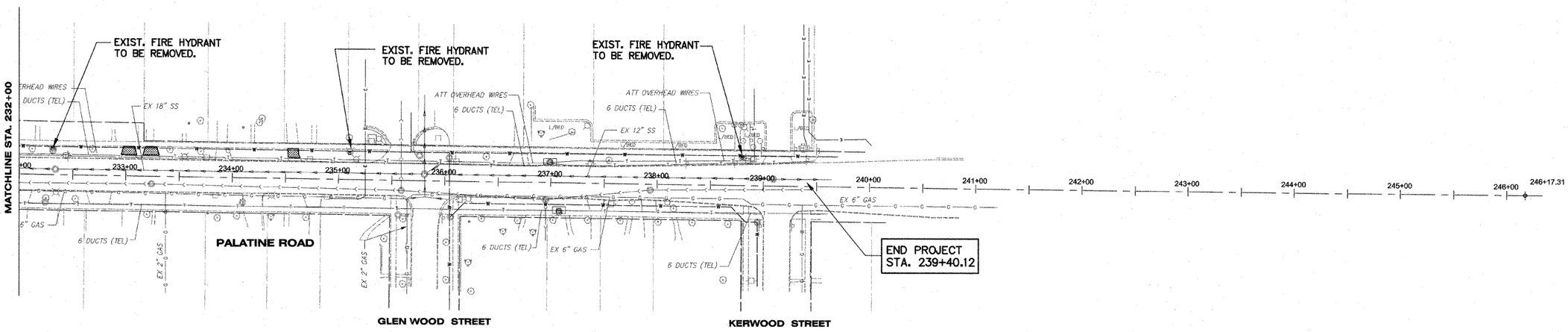
WATER MAIN PLAN - PALATINE ROAD
STA. 217+00 TO STA. 232+00

SCALE: VERT. HORIZ. DRAWN BY
DATE OCTOBER 19, 2009 CHECKED BY

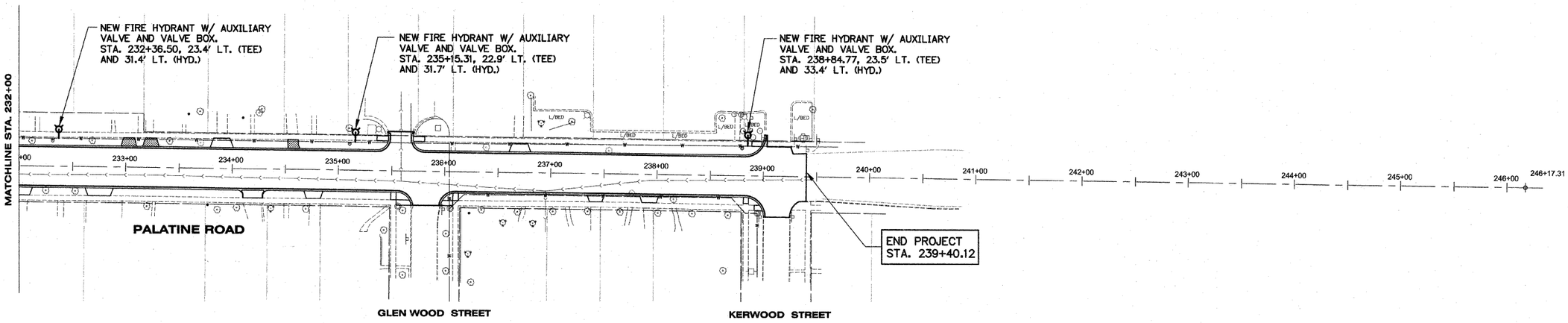
WM-2

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	57
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083



EXISTING CONDITIONS



PROPOSED IMPROVEMENTS

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

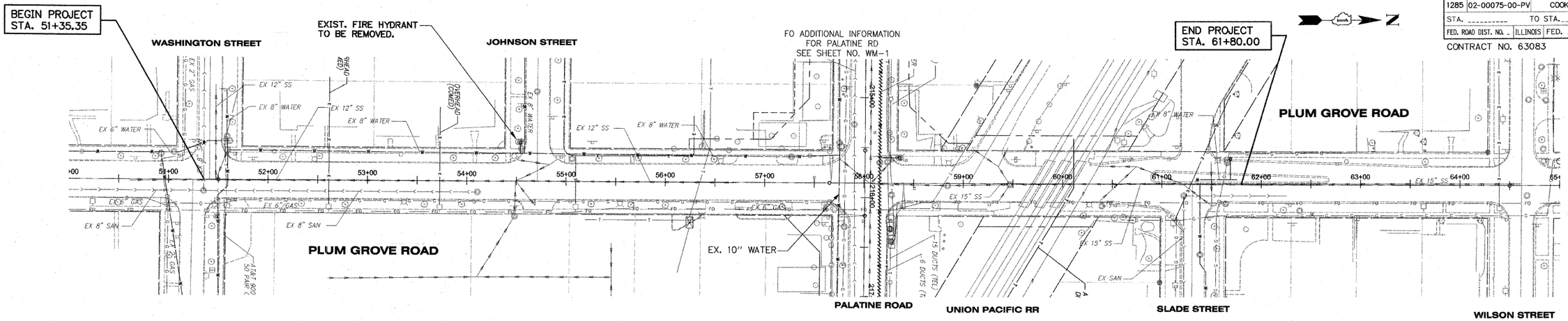
VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

WATER MAIN PLAN - PALATINE ROAD STA. 232+00 TO STA. 239+40.12

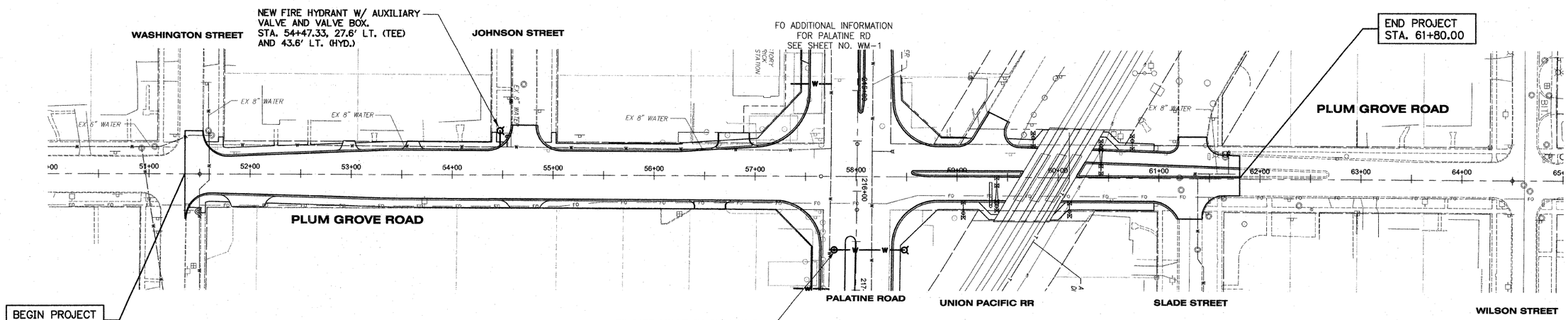
SCALE: VERT.
HORIZ.
DRAWN BY
DATE OCTOBER 19, 2009
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	58
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083



EXISTING CONDITIONS



PROPOSED IMPROVEMENTS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE

PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

WATER MAIN PLAN - PLUM GROVE ROAD
STA. 51+35.35 TO STA. 60+95.14

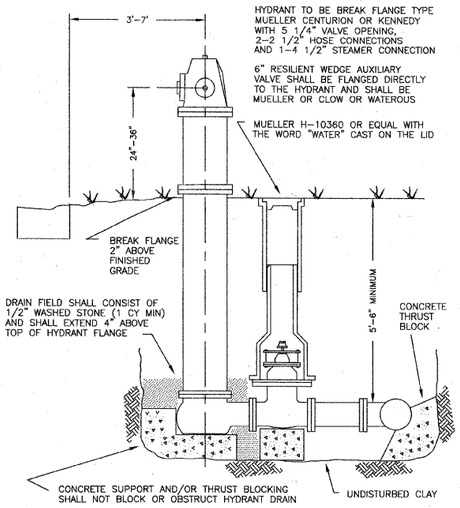
SCALE: VERT.
HORIZ.

DRAWN BY

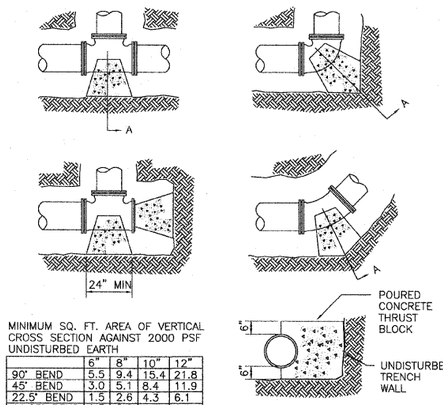
DATE OCTOBER 19, 2009

CHECKED BY

FIRE HYDRANT



THRUST BLOCK INSTALLATION

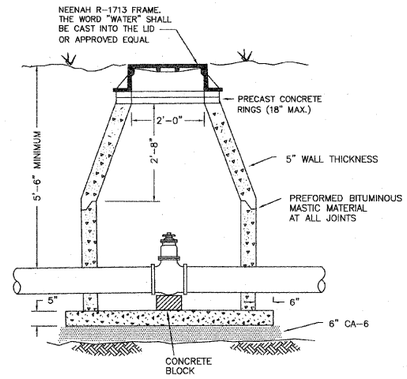


MINIMUM SQ. FT. AREA OF VERTICAL CROSS SECTION AGAINST 2000 PSF UNDISTURBED EARTH

	6"	8"	10"	12"
90° BEND	5.5	9.4	15.4	21.8
45° BEND	3.0	5.1	8.4	11.9
22.5° BEND	1.5	2.6	4.3	6.1
11.25° BEND	1.5	2.6	4.3	6.1
TEE	3.9	6.7	10.9	15.5

THRUST BLOCKING TO PREVENT MOVEMENT OF LINES UNDER PRESSURE AT BENDS, TEES, CAPS, VALVES, HYDRANTS AND AT POINTS SPECIFIED BY THE ENGINEER SHALL BE CLASS "X" CONCRETE, A MINIMUM OF 12" THICK, PLACED BETWEEN SOLID GROUND AND FITTING, AND SHALL BE ANCHORED IN SUCH A MANNER THAT PIPE AND FITTING WILL BE ACCESSIBLE FOR REPAIRS. THRUST BLOCKS SHALL BE PLACED AT BENDS OF 11-1/4 DEGREES OR MORE. RETAINER GLANDS MAY BE USED IN PLACE OF THRUST BLOCKS. THE COST OF THRUST BLOCKS OR RETAINER GLANDS SHALL BE INCLUDED IN THE COST OF THE FITTING.

WATER VALVE VAULT



INSIDE DIAMETER SHALL BE 48" FOR WATER MAIN 6" THROUGH 10" AND 60" FOR WATER MAIN 12" AND OVER

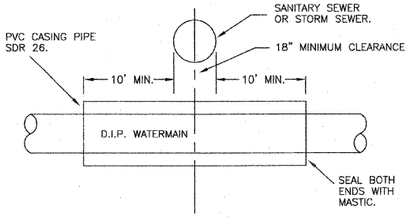
VALVES SHALL BE RESILIENT WEDGE GATE VALVES CONFORMING TO AWWA C509 AND SHALL BE MUELLER OR WATEROUS

WATERMAIN CONFLICTS

CONFLICTS OCCUR WHERE WATERMAINS PASS WITHIN 18" OVER OR PASS UNDER A SANITARY AND/OR STORM SEWER AND SHALL BE PROVIDED FOR AS FOLLOWS:

SANITARY SEWER CONFLICTS:

PROVIDE WATERMAIN EQUIVALENT PIPE AND JOINTS FOR THE SANITARY SEWER 10 FT. EITHER SIDE OF WATERMAIN CROSSING USING MISSION TYPE COUPLINGS TO MAKE THE TRANSITION BETWEEN THE TWO MATERIALS, OR ENCASE WATERMAIN AS SHOWN BELOW. REGARDLESS OF METHOD, THERE SHALL BE A MINIMUM 18" CLEARANCE BETWEEN TOP OF WATERMAIN AND THE BOTTOM OF THE SANITARY SEWER.

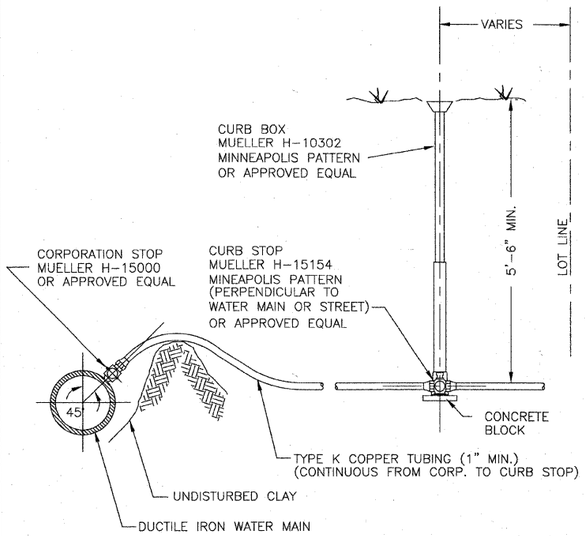


WATERMAIN DIAM.	CASING PIPE DIAM.
6"	12"
8"	15"
10"	18"
12"	18"

STORM SEWER CONFLICTS:

PROVIDE STORM SEWER PIPE WITH O-RING GASKET JOINTS CONFORMING TO ASTM C-443 10 FT. EITHER SIDE OF WATERMAIN CONFLICTS AND PROVIDE A MINIMUM CLEARANCE BETWEEN TOP OF WATERMAIN AND THE BOTTOM OF THE STORM SEWER.

WATER SERVICE DETAIL

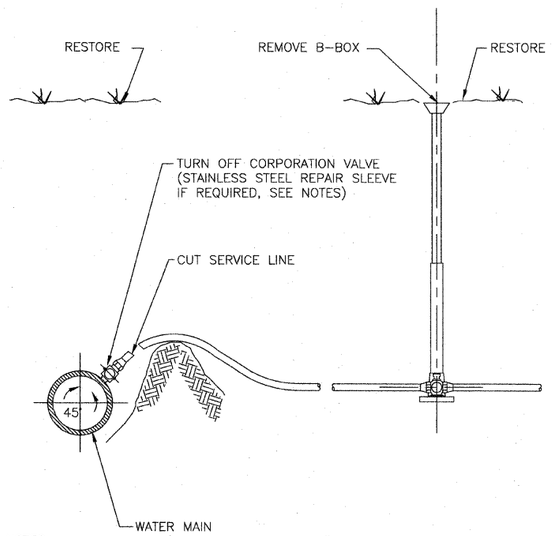


NOTES:

WATER SERVICE LINE SHALL BE IN A SEPARATE TRENCH 10 FT. FROM THE SANITARY SEWER SERVICE LINE OR IN THE SAME TRENCH BUT ON A SHELF 18" ABOVE THE SEWER LINE, IN WHICH CASE THE SEWER PIPE MATERIAL SHALL BE DUCTILE IRON OR SCHEDULE 40 PVC WITH SOLVENT WELD JOINTS.

TAPS TO HDPE WATER MAIN REQUIRE ELECTROFUSION SADDLE
TAPS TO PVC WATER MAIN REQUIRE STAINLESS STEEL TAPPING SLEEVE

WATER SERVICE DISCONNECTION



NOTES:

ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL, OR BETTER, CONDITION.

WATER SERVICE DISCONNECTIONS 3/4 AND 1" SHALL BE SHUT OFF AT WATER MAIN IF THE CORPORATION VALVE LEAKS, CORPORATION SHALL BE REMOVED, AND STAINLESS STEEL REPAIR SLEEVE SHALL BE PLACED OVER THE TAP.

WATER SERVICE DISCONNECTIONS GREATER THAN 1": CORPORATION VALVE SHALL BE REMOVED, AND A STAINLESS STEEL REPAIR SLEEVE SHALL BE PLACED OVER THE TAP.

DISCONNECTION INSPECTIONS AND MAIN SHUT DOWNS SHALL BE COORDINATED WITH PUBLIC WORKS UTILITY DIVISION.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	59
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

WATER MAIN DETAILS

PALATINE ROAD

SCALE: VERT. HORIZ. DRAWN BY

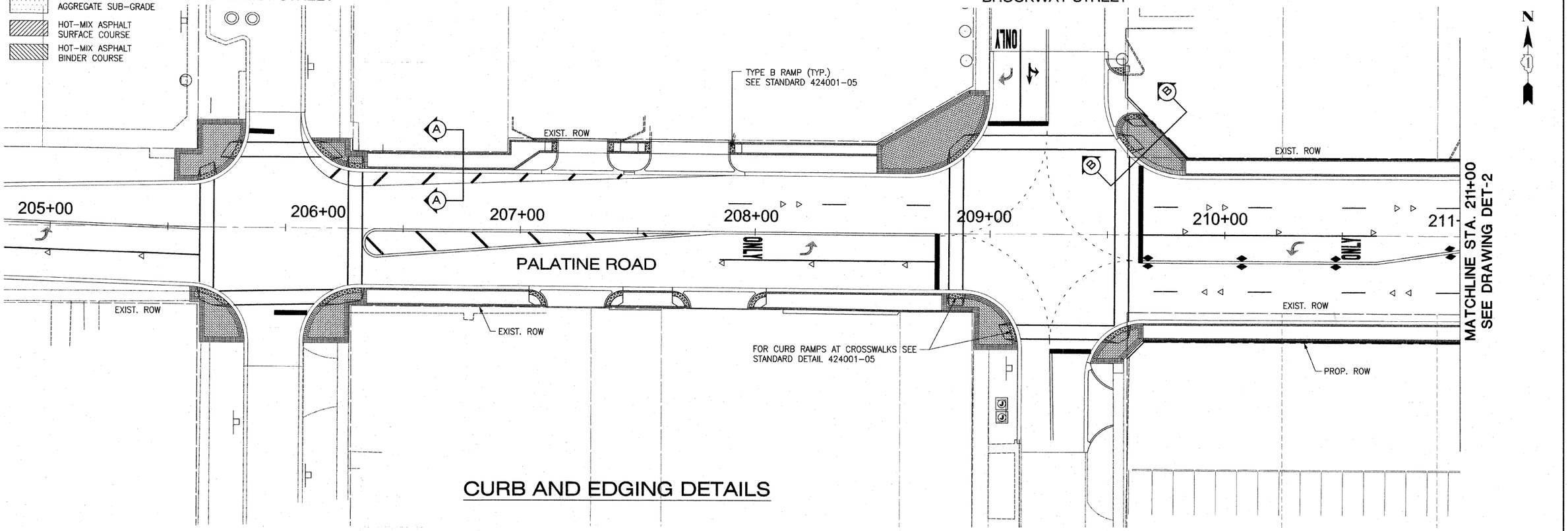
DATE OCTOBER 19, 2009 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	60
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

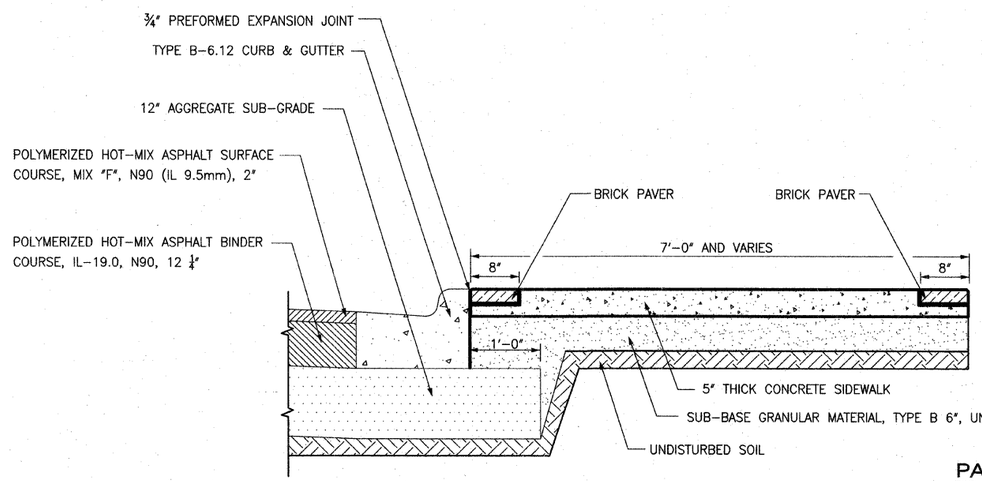
CONTRACT NO. 63083

LEGEND:

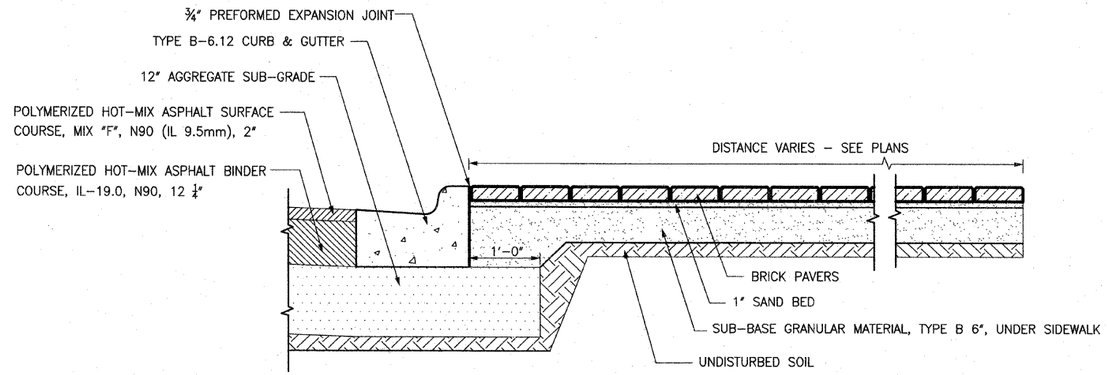
- BRICK PAVER
- GRANULAR SUB-BASE
- AGGREGATE SUB-GRADE
- HOT-MIX ASPHALT SURFACE COURSE
- HOT-MIX ASPHALT BINDER COURSE



CURB AND EDGING DETAILS



SECTION A-A



SECTION B-B

PAVER QUANTITIES:

TOTAL QUANTITY OF PAVERS AT STREET CORNERS - 8,009 SQ. FT.
TOTAL QUANTITY OF PAVERS ALONG SIDEWALK EDGING - 765 SQ. FT.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

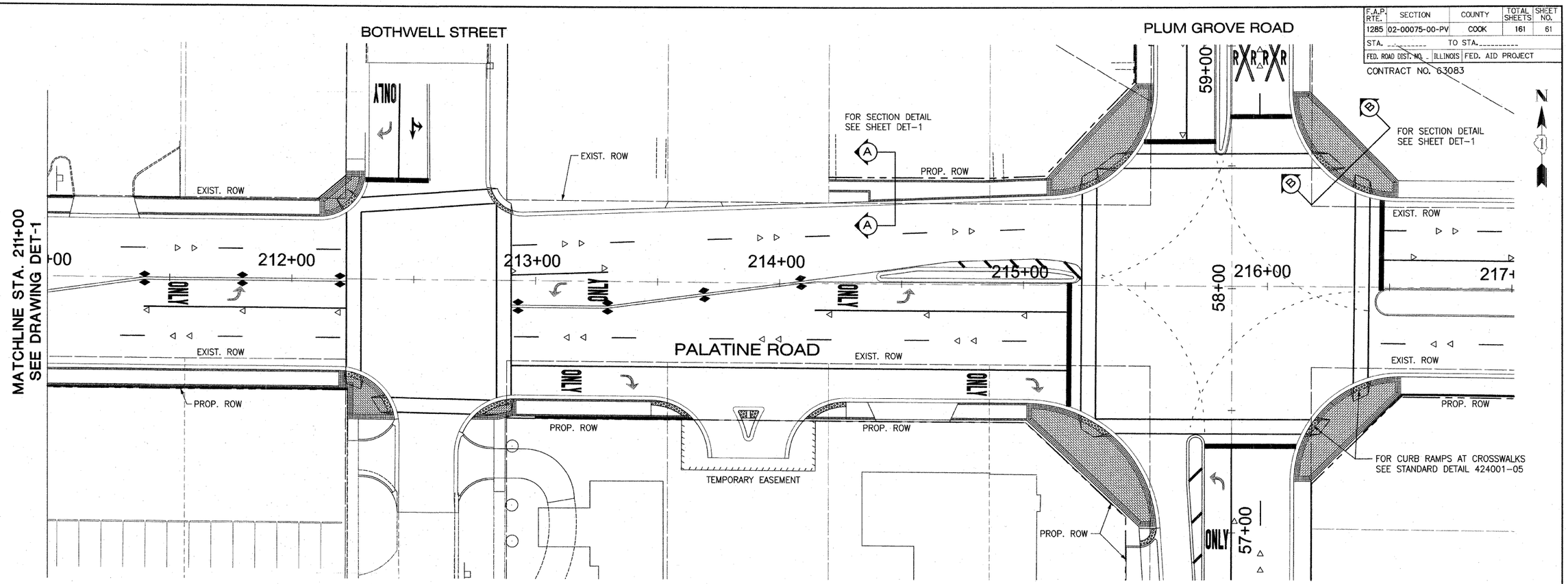
INTERSECTION PAVING DETAILS

SCALE: VERT. N.T.S.
HORIZ. 1" = 20'
DATE OCTOBER 19, 2009
DRAWN BY JPW
CHECKED BY

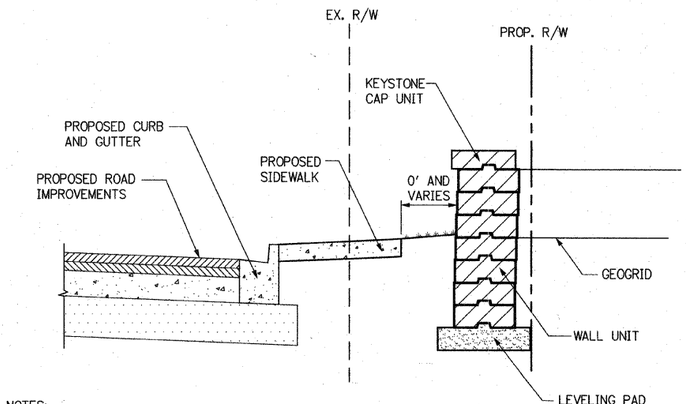
DET-1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	61
STA. _____	TO STA. _____			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083



CURB AND EDGING DETAILS



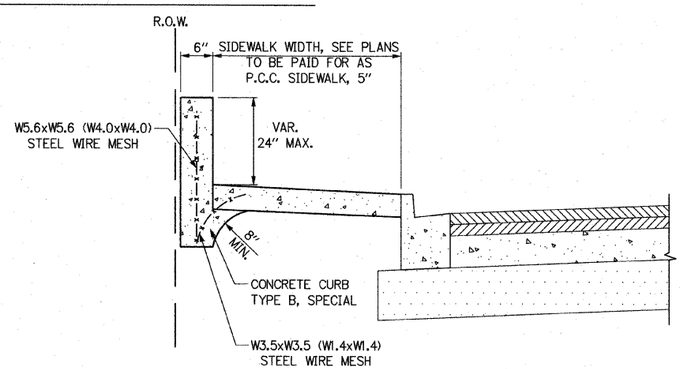
NOTES:

1. MAINTAIN POSITIVE DRAINAGE AWAY FROM RETAINING WALL.

LEVELING PAD
MATERIAL FOR LEVELING PAD SHALL CONSIST OF COMPACTED SAND OR GRAVEL AND SHALL BE A MINIMUM OF 6" IN DEPTH. THE LEVELING PAD SHOULD EXTEND LATERALLY AT LEAST A DISTANCE OF 6" BEYOND THE TOE AND HEEL OF THE LOWER MOST WALL UNIT.

MSE RETAINING WALL DETAIL

STA. 221+18.00 TO STA. 222+12.00 (LT) PALATINE ROAD
STA. 55+55.00 TO STA. 56+27.80 (LT) PLUM GROVE ROAD
STA. 60+36.50 TO STA. 60+91.00 (RT) PLUM GROVE ROAD



CONCRETE CURB TYPE B, SPECIAL

MEASUREMENT FORMULA: H X LENGTH CONSTRUCTED = PAYMENT AREA IN SQUARE FEET

N.T.S.

GENERAL NOTES:

1.) THE CONCRETE CURB TYPE B, SPECIAL SHALL BE POURED MONOLITHICALLY WITH THE ADJACENT P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

2.) ALL PROVISIONS OF SECTIONS 424 AND 606 OF THE STANDARD SPECIFICATIONS SHALL APPLY UNLESS OTHERWISE SHOWN.

3.) THIS DETAIL IS FOR CURB WALL HEIGHTS FROM 12" TO 24".

PALATINE ROAD

STA. 209+83.00 TO STA. 211+10.70 LT.
STA. 211+34.70 TO STA. 211+54.08 LT.
STA. 209+65.00 TO STA. 212+22.58 RT.
STA. 213+00.00 TO STA. 216+40.00 RT.
STA. 216+75.00 TO STA. 217+15.20 RT.
STA. 217+45.20 TO STA. 217+94.40 RT.
STA. 220+92.50 TO STA. 221+40.00 RT.

PLUM GROVE ROAD

STA. 53+66.50 TO STA. 54+38.00 LT.
STA. 58+84.90 TO STA. 59+09.30 LT.
STA. 53+66.00 TO STA. 54+57.80 RT.
STA. 54+86.50 TO STA. 56+39.90 RT.
STA. 56+71.90 TO STA. 57+20.20 RT.

LEGEND:

- BRICK PAVER
- GRANULAR SUB-BASE
- BASE COURSE
- AGGREGATE SUB-GRADE
- SURFACE COURSE
- BINDER COURSE

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

INTERSECTION PAVING, MSE RETAINING WALL & P.C.C. SIDEWALK, SPECIAL DETAILS

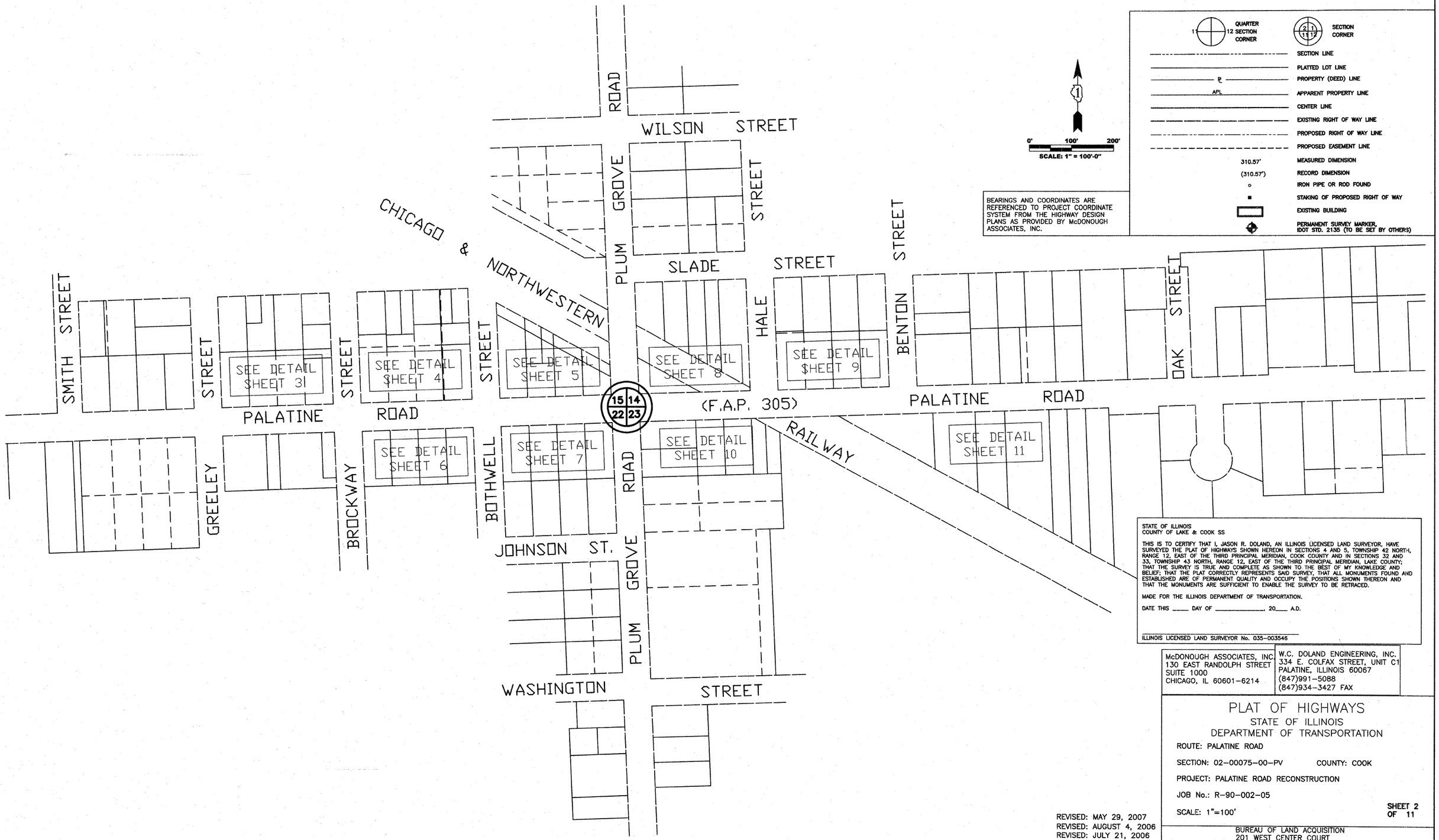
SCALE: VERT. N.T.S. HORIZ. 1" = 20'
DRAWN BY JPW
DATE OCTOBER 19, 2009
CHECKED BY

DET-2

PART OF SEC. 14, 15, 22 & 23, T.42 N., R. 10 E. OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS

CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	62
STA. _____	TO STA._____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



BEARINGS AND COORDINATES ARE REFERENCED TO PROJECT COORDINATE SYSTEM FROM THE HIGHWAY DESIGN PLANS AS PROVIDED BY McDONOUGH ASSOCIATES, INC.

	QUARTER 12 SECTION CORNER
	SECTION CORNER
	SECTION LINE
	PLATTED LOT LINE
℄	PROPERTY (DEED) LINE
APL	APPARENT PROPERTY LINE
	CENTER LINE
	EXISTING RIGHT OF WAY LINE
	PROPOSED RIGHT OF WAY LINE
	PROPOSED EASEMENT LINE
310.57'	MEASURED DIMENSION
(310.57')	RECORD DIMENSION
○	IRON PIPE OR ROD FOUND
■	STAKING OF PROPOSED RIGHT OF WAY
	EXISTING BUILDING
	PERMANENT SURVEY MARKER, IDOT STD. 2135 (TO BE SET BY OTHERS)

STATE OF ILLINOIS
COUNTY OF LAKE & COOK SS

THIS IS TO CERTIFY THAT I, JASON R. DOLAND, AN ILLINOIS LICENSED LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 4 AND 5, TOWNSHIP 42 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY AND IN SECTIONS 32 AND 33, TOWNSHIP 43 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

MADE FOR THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

DATE THIS _____ DAY OF _____, 20____ A.D.

_____
ILLINOIS LICENSED LAND SURVEYOR No. 035-003546

McDONOUGH ASSOCIATES, INC.
130 EAST RANDOLPH STREET
SUITE 1000
CHICAGO, IL 60601-6214

W.C. DOLAND ENGINEERING, INC.
334 E. COLFAX STREET, UNIT C1
PALATINE, ILLINOIS 60067
(847)991-5088
(847)934-3427 FAX

REVISED: MAY 29, 2007
REVISED: AUGUST 4, 2006
REVISED: JULY 21, 2006

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE: PALATINE ROAD

SECTION: 02-00075-00-PV COUNTY: COOK

PROJECT: PALATINE ROAD RECONSTRUCTION

JOB No.: R-90-002-05

SCALE: 1"=100'

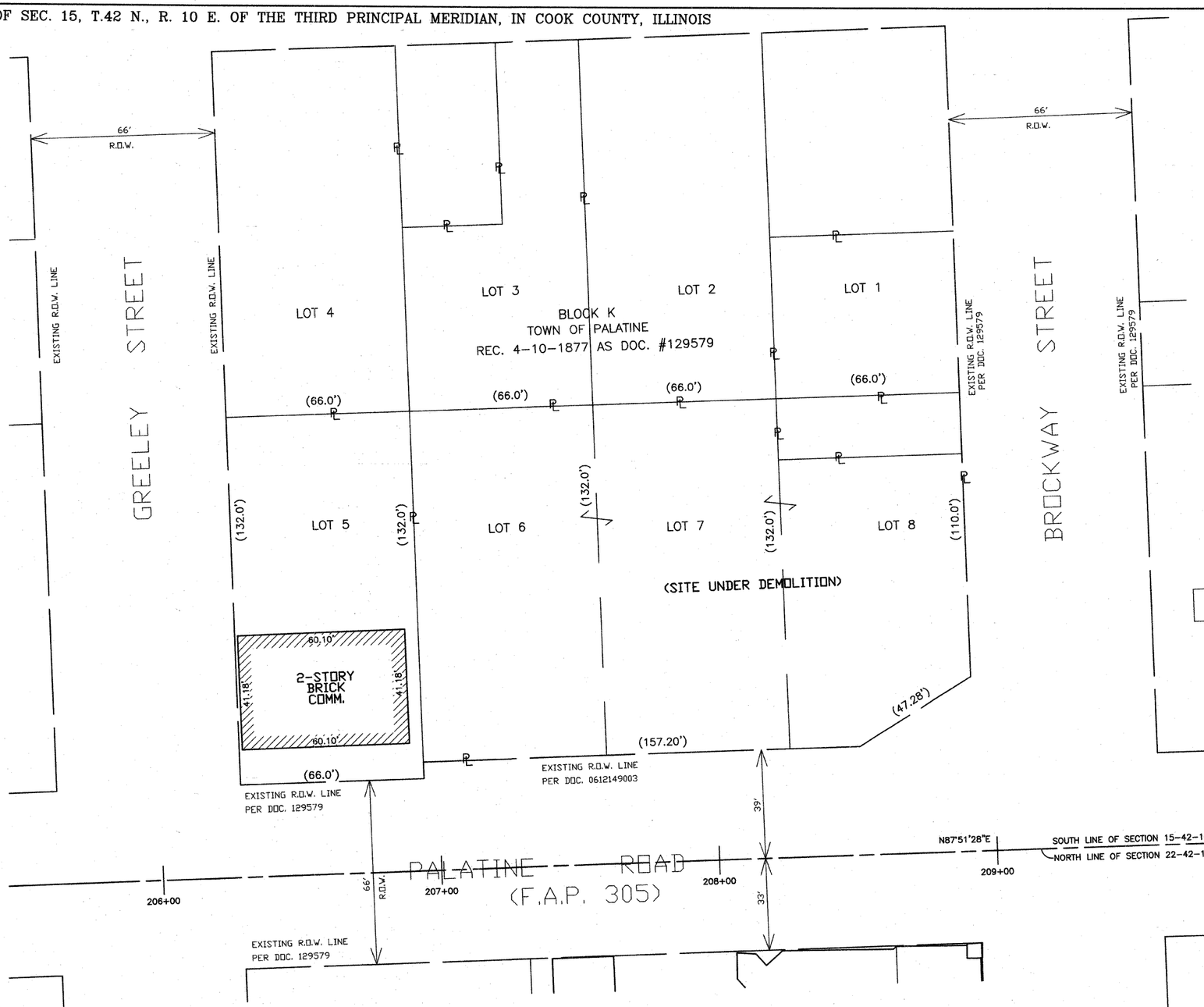
SHEET 2 OF 11

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196

PART OF SEC. 15, T.42 N., R. 10 E. OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS

CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	63
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



SEE SHEET 4 OF 11

QUARTER 12 SECTION CORNER	SECTION CORNER
	SECTION LINE
	PLATTED LOT LINE
PL	PROPERTY (DEED) LINE
APL	APPARENT PROPERTY LINE
	CENTER LINE
	EXISTING RIGHT OF WAY LINE
	PROPOSED RIGHT OF WAY LINE
	PROPOSED EASEMENT LINE
310.57'	MEASURED DIMENSION
(310.57')	RECORD DIMENSION
	IRON PIPE OR ROD FOUND
	STAKING OF PROPOSED RIGHT OF WAY
	EXISTING BUILDING
	PERMANENT SURVEY MARKER, IDOT STD. 2135 (TO BE SET BY OTHERS)

BEARINGS AND COORDINATES ARE REFERENCED TO PROJECT COORDINATE SYSTEM FROM THE HIGHWAY DESIGN PLANS AS PROVIDED BY McDONOUGH ASSOCIATES, INC.

0' 20' 40'
SCALE: 1" = 20'-0"

STATE OF ILLINOIS
COUNTY OF LAKE & COOK SS

THIS IS TO CERTIFY THAT I, JASON R. DOLAND, AN ILLINOIS LICENSED LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 4 AND 5, TOWNSHIP 42 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY AND IN SECTIONS 32 AND 33, TOWNSHIP 43 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

MADE FOR THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

DATE THIS _____ DAY OF _____, 20___ A.D.

_____
ILLINOIS LICENSED LAND SURVEYOR No. 035-003546

McDONOUGH ASSOCIATES, INC.
130 EAST RANDOLPH STREET
SUITE 1000
CHICAGO, IL 60601-6214

W.C. DOLAND ENGINEERING, INC.
334 E. COLFAX STREET, UNIT C1
PALATINE, ILLINOIS 60067
(847)991-5088
(847)934-3427 FAX

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE: PALATINE ROAD

SECTION: 02-00075-00-PV COUNTY: COOK

PROJECT: PALATINE ROAD RECONSTRUCTION

JOB No.: R-90-002-05

SCALE: 1"=20'

SHEET 3 OF 11

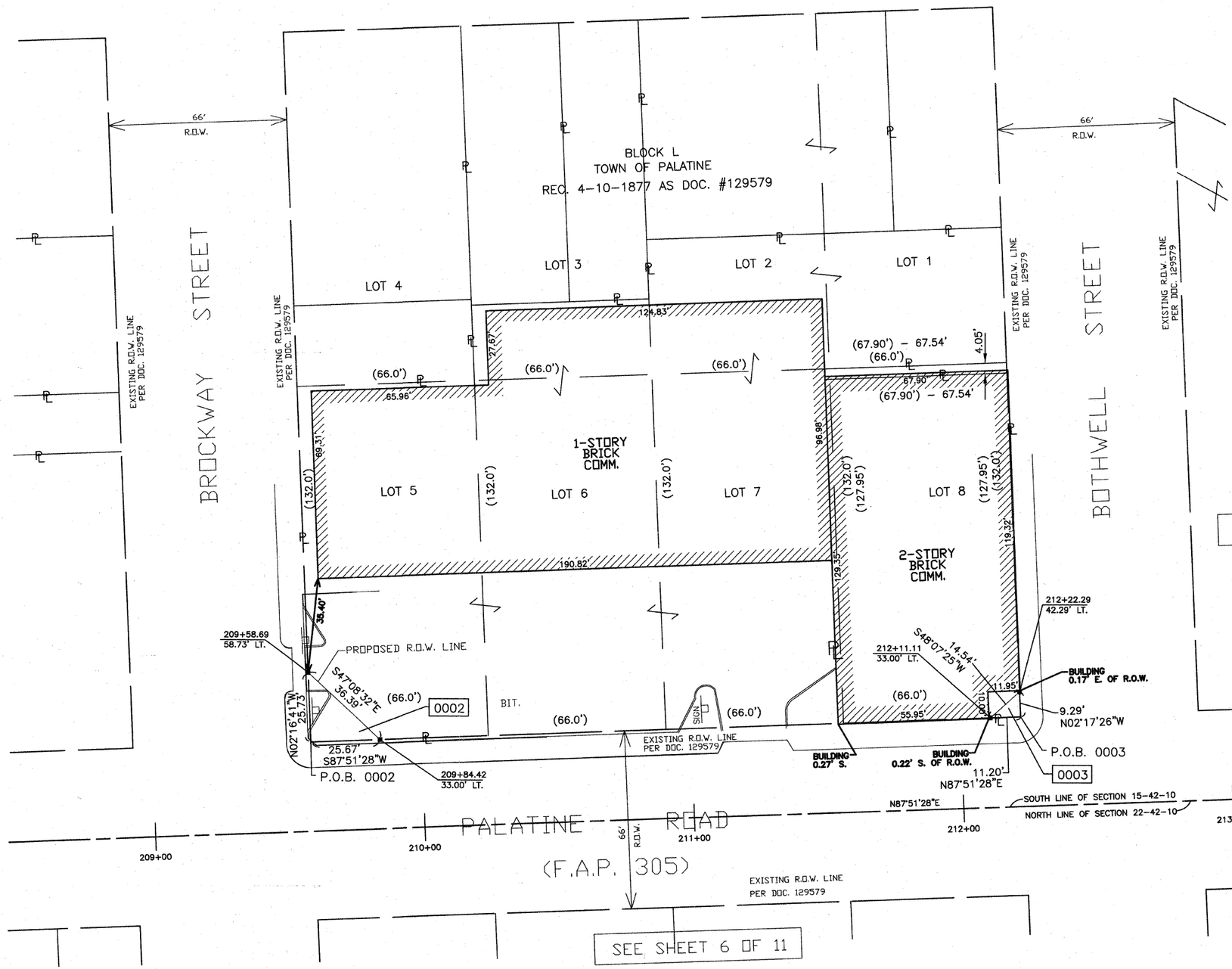
BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196

REVISED:
JULY 21, 2006
AUGUST 4, 2006
MAY 29, 2007
NOVEMBER 20, 2007

PART OF SEC. 15, T.42 N., R. 10 E. OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS

CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	64
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



SEE SHEET 6 OF 11

SEE SHEET 5 OF 11

QUARTER 12 SECTION CORNER

SECTION CORNER

SECTION LINE

PLATTED LOT LINE

PROPERTY (DEED) LINE

APPARENT PROPERTY LINE

CENTER LINE

EXISTING RIGHT OF WAY LINE

PROPOSED RIGHT OF WAY LINE

PROPOSED EASEMENT LINE

310.57' MEASURED DIMENSION

(310.57') RECORD DIMENSION

IRON PIPE OR ROD FOUND

STAKING OF PROPOSED RIGHT OF WAY

EXISTING BUILDING

PERMANENT SURVEY MARKER, IDOT STD. 2135 (TO BE SET BY OTHERS)

BEARINGS AND COORDINATES ARE REFERENCED TO PROJECT COORDINATE SYSTEM FROM THE HIGHWAY DESIGN PLANS AS PROVIDED BY McDONOUGH ASSOCIATES, INC.

0' 20' 40'
SCALE: 1" = 20'-0"

STATE OF ILLINOIS
COUNTY OF LAKE & COOK SS

THIS IS TO CERTIFY THAT I, JASON R. DOLAND, AN ILLINOIS LICENSED LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 4 AND 5, TOWNSHIP 42 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY AND IN SECTIONS 32 AND 33, TOWNSHIP 43 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

MADE FOR THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

DATE THIS ____ DAY OF _____, 20____ A.D.

ILLINOIS LICENSED LAND SURVEYOR No. 035-003546

PARCEL #	OWNER	P.I.N.	TOTAL HOLDING AREA	AREA TAKEN	PREVIOUSLY DEDICATED OR USED AREA	REMAINDER	PERMANENT EASEMENT	ACQUIRED BY
0002	LaSALLE NATIONAL TRUST, NA AS TRUSTEE UNDER TRUST AGREEMENT DATED APRIL 26, 1996 KNOWN AS TRUST No. 120214	02-15-430-022	0.787 ACRE	0.008 ACRE (330 S.F.)	0 ACRE	0.779 ACRE	N/A	
0003	LaSALLE NATIONAL BANK, NA AS TRUSTEE UNDER TRUST NUMBER 121423 DATED DECEMBER 9, 1997	02-15-430-013	0.199 ACRE	0.001 ACRE (52 S.F.)	0 ACRE	0.198 ACRE	N/A	

STATION	OFFSET	NORTHING	EASTING
209+58.69	58.73' LT.	11469.4049	9403.0186
209+84.42	33.00' LT.	11444.6517	9429.6956
212+11.11	33.00' LT.	11453.1257	9656.2291
212+22.29	42.29' LT.	11462.8293	9667.0530

REVISED:
JULY 21, 2006
AUGUST 4, 2006
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PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE: PALATINE ROAD

SECTION: 02-00075-00-PV COUNTY: COOK

PROJECT: PALATINE ROAD RECONSTRUCTION

JOB No.: R-90-002-05

SCALE: 1"=20'

SHEET 4 OF 11

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196

PART OF SEC. 15, T.42 N., R. 10 E. OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS

CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	65
STA. ----------	TO STA. ----------			
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

QUARTER 12 SECTION CORNER

SECTION CORNER

SECTION LINE

PLATTED LOT LINE

PROPERTY (DEED) LINE

APPARENT PROPERTY LINE

CENTER LINE

EXISTING RIGHT OF WAY LINE

PROPOSED RIGHT OF WAY LINE

PROPOSED EASEMENT LINE

310.57' MEASURED DIMENSION

(310.57') RECORD DIMENSION

IRON PIPE OR ROD FOUND

STAKING OF PROPOSED RIGHT OF WAY

EXISTING BUILDING

PERMANENT SURVEY MARKER, IDOT STD. 2135 (TO BE SET BY OTHERS)

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0' 20' 40'
SCALE: 1" = 20'-0"

SEE SHEET 4 OF 11

SEE SHEET 8 OF 11

SEE SHEET 7 OF 11

EXISTING R.O.W. LINE PER DOC. 129579

66' R.O.W.

S.W.'LY R.O.W. LINE OF THE CHICAGO & NORTHWESTERN RAILWAY

CHICAGO & NORTHWESTERN RAILWAY

106.0' (PER RAILROAD COMPANY RECORDS) (AND CLARIFIED BY NEARBY PARCEL TITLE RECORDS)

BOTHWELL STREET

SLADE STREET

PLUM GROVE ROAD

LOT 7

LOT 6

LOT 5

LOT 4

LOT 3

LOT 2

LOT 1

BLOCK M TOWN OF PALATINE REC. 4-10-1877 AS DOC. #129579

RE-RECORDED PLAT OF SURVEY OF JOEL WOOD'S ADDITION TO PALATINE REC. 11-22-1937 AS DOC. #12085454

1-STORY BRICK COMM.

1-STORY BRICK COMMERCIAL

PROPOSED R.O.W. LINE

BUILDING 19.24' S.

BUILDING 10.47' S.

BUILDING 10.42' S.

BUILDING 10.55' S.

0006

0007

P.O.B. 0006

P.O.B. 0007

PALATINE ROAD (F.A.P. 305)

SOUTH LINE OF SECTION 15-42-10 N87°51'28"E

NORTH LINE OF SECTION 22-42-10

EAST LINE OF SECTION 15-42-10 N02°17'26"W

WEST LINE OF SECTION 14-42-10 N88°11'29"E

S02°24'15"E

60+96.30 40.00' LT.

7.00' S87°51'28"E

60+96.28 33.00' LT.

61+00

60+00

59+00

58+00

59+02.00 33.00' LT.

59+06.18 40.00' LT.

58+84.90 40.00' LT.

214+20.29 43.50' LT.

214+86.29 43.50' LT.

215+08.93 44.50' LT.

59+07.34 40.00' LT.

59+03.17 33.00' LT.

212+00

213+00

214+00

215+00

216+00

N02°17'26"W 188.96

193.11' N02°17'26"W

N02°17'26"W 21.27'

S61°28'58"E 8.15'

S87°51'28"W 66.00'

N87°51'28"E 66.00'

N85°19'46"E 22.67'

N40°34'02"E 53.44'

S02°17'26"E 67.89'

N02°17'26"W 67.90'

S02°17'26"E 67.88'

N02°17'26"W 90.20'

10.50' S02°17'26"E

10.50' N02°17'26"W

(66.0')

(64.70')

(30.00')

(36.00')

(91.00')

(185.18')

185.44'

188.08'

(224.39')

224.63'

20.38'

(145.97')

(146.26')

107.07'

(106.76')

24.52'

17.71'

37.42'

23.86'

23.94'

16.01'

67.08'

13.66'

13.25'

43.88'

PARCEL #	OWNER	P.I.N.	TOTAL HOLDING AREA	AREA TAKEN	PREVIOUSLY DEDICATED OR USED AREA	REMAINDER	PERMANENT EASEMENT	ACQUIRED BY
0006	JAMES LONGFIELD	02-15-431-006	0.192 ACRE	0.016 ACRE	0 ACRE	0.176 ACRE	N/A	
0007	VILLAGE OF PALATINE	02-15-431-007	0.133 ACRE	0.043 ACRE	0 ACRE	0.090 ACRE	N/A	

STATION	OFFSET	NORTHING	EASTING
214+20.29	43.50' LT.	11471.4375	9864.8666
214+86.29	43.50' LT.	11473.9047	9930.8204
215+08.93	44.50' LT.	11475.7505	9953.4137
58+84.90	40.00' LT.	11516.3481	9988.1697
59+07.34	40.00' LT.	11538.7691	9987.2728
59+03.17	33.00' LT.	11534.8780	9994.4340

STATE OF ILLINOIS
COUNTY OF LAKE & COOK SS

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MADE FOR THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

DATE THIS _____ DAY OF _____, 20____ A.D.

ILLINOIS LICENSED LAND SURVEYOR No. 035-003546

REVISED:
JULY 21, 2006
AUGUST 4, 2006
MAY 29, 2007
NOVEMBER 20, 2007
MAY 27, 2008
SEPTEMBER 30, 2009

McDONOUGH ASSOCIATES, INC
130 EAST RANDOLPH STREET
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PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE: PALATINE ROAD

SECTION: 02-00075-00-PV COUNTY: COOK

PROJECT: PALATINE ROAD RECONSTRUCTION

JOB No.: R-90-002-05

SCALE: 1"=20'

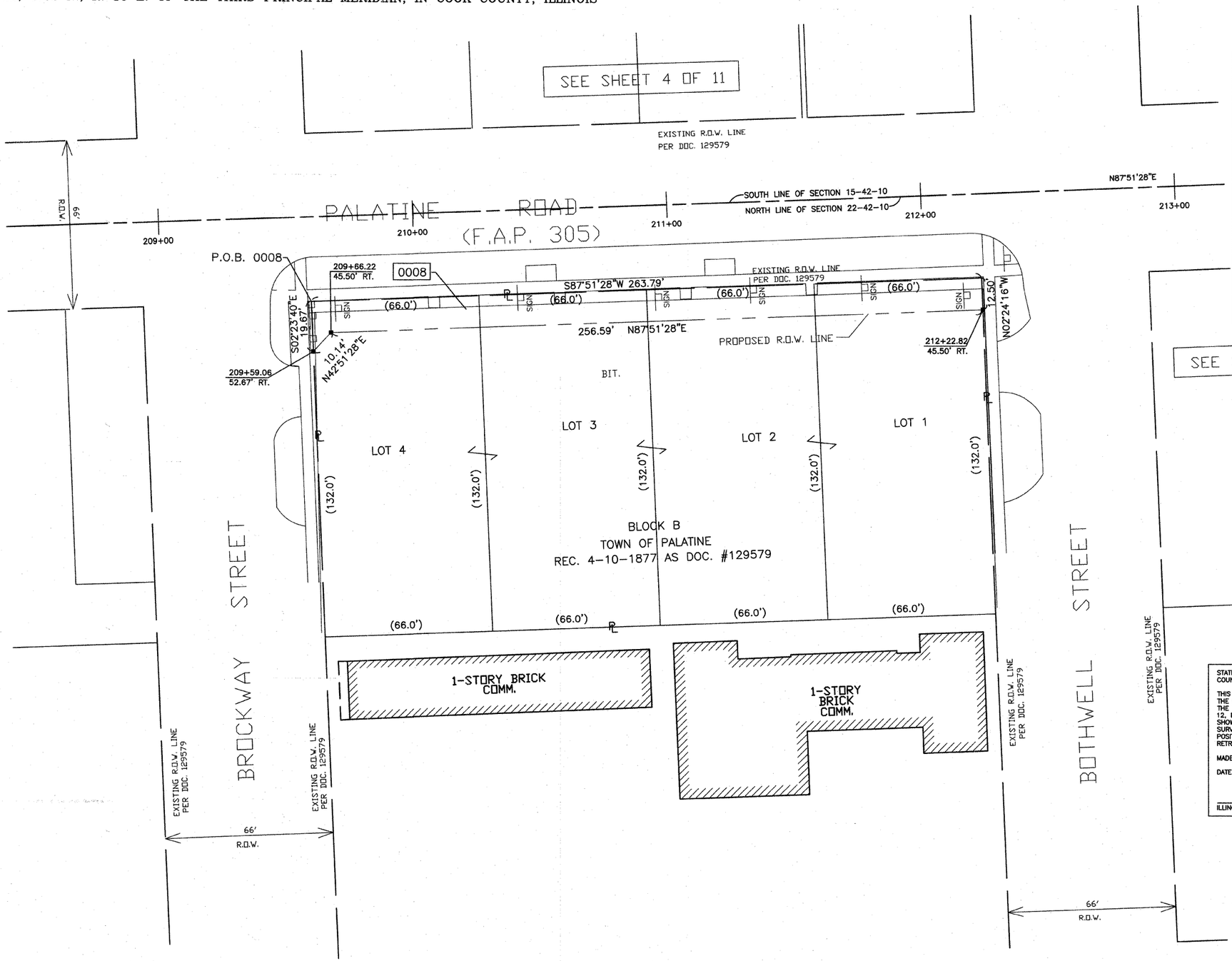
SHEET 5 OF 11

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196

PART OF SEC. 22, T.42 N., R. 10 E. OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS

CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	66
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



SEE SHEET 7 OF 11

QUARTER 12 SECTION CORNER

SECTION CORNER

SECTION LINE

PLATTED LOT LINE

℄ PROPERTY (DEED) LINE

APL APPARENT PROPERTY LINE

CENTER LINE

EXISTING RIGHT OF WAY LINE

PROPOSED RIGHT OF WAY LINE

PROPOSED EASEMENT LINE

310.57' MEASURED DIMENSION

(310.57') RECORD DIMENSION

IRON PIPE OR ROD FOUND

STAKING OF PROPOSED RIGHT OF WAY

EXISTING BUILDING

PERMANENT SURVEY MARKER, IDOT STD. 2135 (TO BE SET BY OTHERS)

BEARINGS AND COORDINATES ARE REFERENCED TO PROJECT COORDINATE SYSTEM FROM THE HIGHWAY DESIGN PLANS AS PROVIDED BY McDONOUGH ASSOCIATES, INC.

0' 20' 40'
SCALE: 1" = 20'-0"

PARCEL #	OWNER	P.I.N.	TOTAL HOLDING AREA	AREA TAKEN	PREVIOUSLY DEDICATED OR USED AREA	REMAINDER	PERMANENT EASEMENT	ACQUIRED BY
0008	VILLAGE OF PALATINE	02-22-204-009	0.800 ACRE	0.076 ACRE	0 ACRE	0.724 ACRE	N/A	

STATION	OFFSET	NORTHING	EASTING
209+59.06	52.67' RT.	11358.0963	9407.5533
209+66.22	45.50' RT.	11365.5264	9414.4476
212+22.82	45.50' RT.	11375.1181	9670.8611

STATE OF ILLINOIS
COUNTY OF LAKE & COOK SS

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MADE FOR THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

DATE THIS _____ DAY OF _____, 20____ A.D.

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ILLINOIS LICENSED LAND SURVEYOR No. 035-003546

McDONOUGH ASSOCIATES, INC.
130 EAST RANDOLPH STREET
SUITE 1000
CHICAGO, IL 60601-6214

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REVISED:
JULY 21, 2006
AUGUST 4, 2006
MAY 29, 2007
NOVEMBER 20, 2007

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE: PALATINE ROAD

SECTION: 02-00075-00-PV COUNTY: COOK

PROJECT: PALATINE ROAD RECONSTRUCTION

JOB No.: R-90-002-05

SCALE: 1"=20'

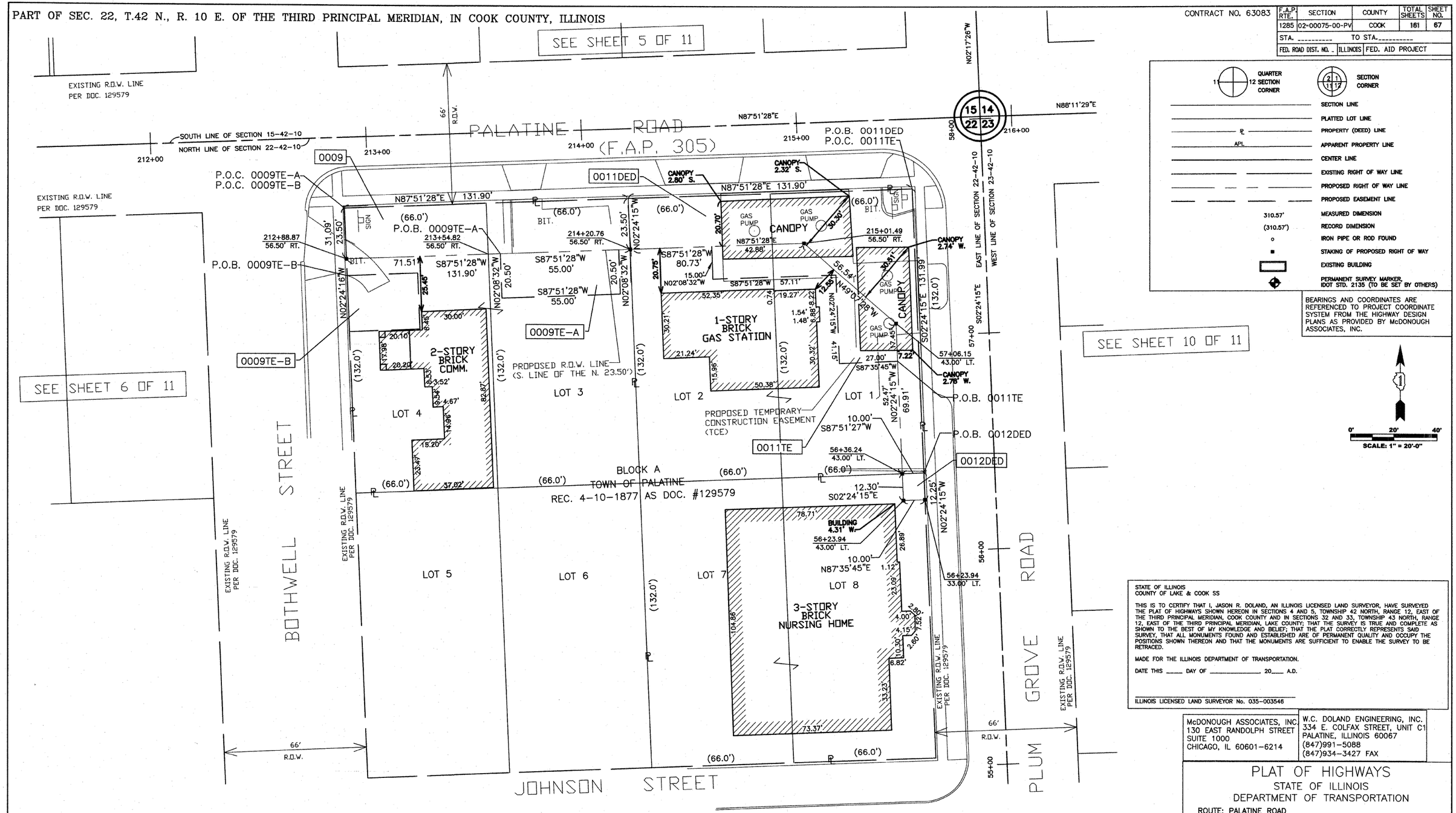
SHEET 6 OF 11

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196

PART OF SEC. 22, T.42 N., R. 10 E. OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS

CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	67
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



QUARTER 12 SECTION CORNER

SECTION CORNER

SECTION LINE
PLATTED LOT LINE
PROPERTY (DEED) LINE
APPARENT PROPERTY LINE
CENTER LINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
PROPOSED EASEMENT LINE
310.57' MEASURED DIMENSION
(310.57') RECORD DIMENSION
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0' 20' 40'
SCALE: 1" = 20'-0"

PARCEL #	OWNER	P.I.N.	TOTAL HOLDING AREA	AREA TAKEN	PREVIOUSLY DEDICATED OR USED AREA	REMAINDER	TEMPORARY EASEMENT	ACQUIRED BY
0009	AMERICAN DATA CENTRE, INC.	02-22-205-001	0.400 ACRE	0.071 ACRE	0 ACRE	0.329 ACRE	0.026 TE-A 0.020 TE-B	
0011DED	NIDA & SABA, INC.	02-22-205-008	0.400 ACRE	0.114 ACRE	0 ACRE	0.400 ACRE	0.036 ACRE	
0012DED	PLUM GROVE OF PALATINE	02-22-205-007	0.400 ACRE	0.003 ACRE (123 S.F.)	0 ACRE	0.400 ACRE	N/A	

STATION	OFFSET	NORTHING	EASTING
212+88.87	56.50' RT.	11366.5948	9737.2772
213+54.82	56.50' RT.	11369.0600	9803.1786
214+20.76	56.50' RT.	11371.5252	9869.0799
215+01.49	56.50' RT.	11374.5430	9949.7539
57+06.15	43.00' LT.	11337.5404	9992.5077
56+36.24	43.00' LT.	11267.6872	9995.4403
56+23.94	43.00' LT.	11255.4020	9995.9561
56+23.94	33.00' LT.	11255.8215	10005.9473

REVISED:
JULY 21, 2006
AUGUST 4, 2006
MAY 29, 2007
NOVEMBER 20, 2007
MAY 27, 2008

STATE OF ILLINOIS
COUNTY OF LAKE & COOK SS

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DATE THIS _____ DAY OF _____, 20____ A.D.

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ILLINOIS LICENSED LAND SURVEYOR No. 035-003546

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PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE: PALATINE ROAD

SECTION: 02-00075-00-PV COUNTY: COOK

PROJECT: PALATINE ROAD RECONSTRUCTION

JOB No.: R-90-002-05

SCALE: 1"=20'

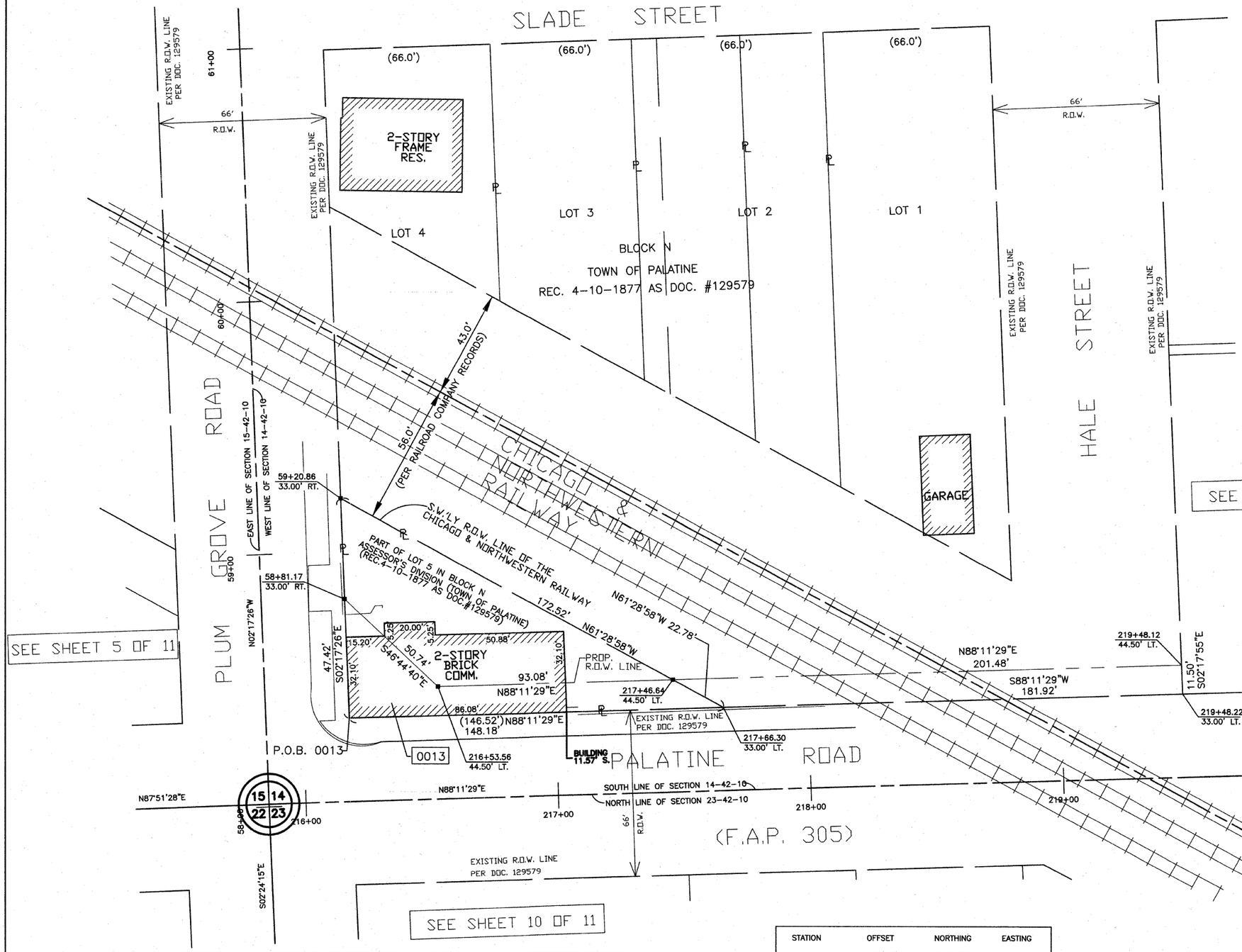
SHEET 7 OF 11

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196

PART OF SEC. 14, T.42 N., R. 10 E. OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS

CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	68
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



SEE SHEET 5 OF 11

SEE SHEET 9 OF 11

SEE SHEET 10 OF 11

QUARTER 12 SECTION CORNER	SECTION CORNER
SECTION LINE	
PLATTED LOT LINE	
PROPERTY (DEED) LINE	
APPARENT PROPERTY LINE	
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310.57'	MEASURED DIMENSION
(310.57')	RECORD DIMENSION
o	IRON PIPE OR ROD FOUND
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	EXISTING BUILDING
	PERMANENT SURVEY MARKER, IDOT STD. 2135 (TO BE SET BY OTHERS)

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SCALE: 1" = 20'-0"

PARCEL #	OWNER	P.I.N.	TOTAL HOLDING AREA	AREA TAKEN	PREVIOUSLY DEDICATED OR USED AREA	REMAINDER	PERMANENT EASEMENT	ACQUIRED BY
0013	PALATINE LODGE No. 314, ANCIENT FREE AND ACCEPTED MASONS	02-14-326-005	0.148 ACRE	0.051 ACRE	0 ACRE	0.097 ACRE	N/A	

STATION	OFFSET	NORTHING	EASTING
58+81.17	33.00' RT.	11515.5359	10061.2605
59+20.86	33.00' RT.	11555.1960	10059.6741
216+53.56	44.50' LT.	11480.7691	10098.2116
217+46.64	44.50' LT.	11483.7070	10191.2460
217+66.30	33.00' LT.	11472.8332	10211.2587

REVISED:
JULY 21, 2006
AUGUST 4, 2006
MAY 29, 2007
NOVEMBER 20, 2007
DECEMBER 20, 2007
APRIL 28, 2008
MAY 27, 2008
SEPTEMBER 22, 2009

STATE OF ILLINOIS
COUNTY OF LAKE & COOK SS

THIS IS TO CERTIFY THAT I, JASON R. DOLAND, AN ILLINOIS LICENSED LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 4 AND 5, TOWNSHIP 42 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY AND IN SECTIONS 32 AND 33, TOWNSHIP 43 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

MADE FOR THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

DATE THIS _____ DAY OF _____, 20____ A.D.

ILLINOIS LICENSED LAND SURVEYOR No. 035-003546

McDONOUGH ASSOCIATES, INC
130 EAST RANDOLPH STREET
SUITE 1000
CHICAGO, IL 60601-6214

W.C. DOLAND ENGINEERING, INC.
334 E. COLFAX STREET, UNIT C1
PALATINE, ILLINOIS 60067
(847)991-5088
(847)934-3427 FAX

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE: PALATINE ROAD

SECTION: 02-00075-00-PV COUNTY: COOK

PROJECT: PALATINE ROAD RECONSTRUCTION

JOB No.: R-90-002-05

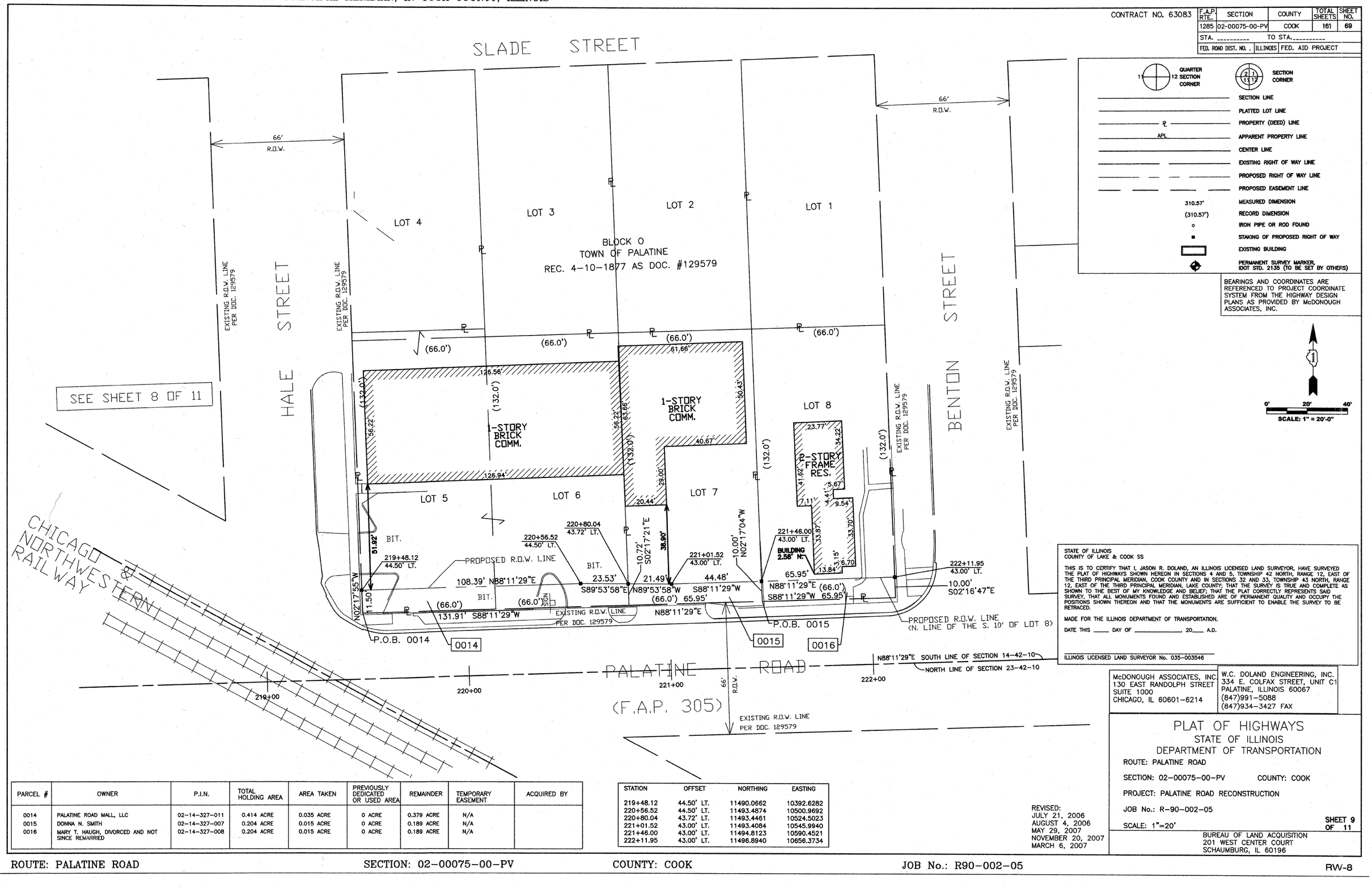
SCALE: 1"=20'

SHEET 8 OF 11

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196

CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	69
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



QUARTER 12 SECTION CORNER

SECTION CORNER

SECTION LINE
PLATTED LOT LINE
℄ PROPERTY (DEED) LINE
APL APPARENT PROPERTY LINE
CENTER LINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
PROPOSED EASEMENT LINE
310.57' MEASURED DIMENSION
(310.57') RECORD DIMENSION
IRON PIPE OR ROD FOUND
STAKING OF PROPOSED RIGHT OF WAY
EXISTING BUILDING
PERMANENT SURVEY MARKER, IDOT STD. 2135 (TO BE SET BY OTHERS)

BEARINGS AND COORDINATES ARE REFERENCED TO PROJECT COORDINATE SYSTEM FROM THE HIGHWAY DESIGN PLANS AS PROVIDED BY McDONOUGH ASSOCIATES, INC.

SCALE: 1" = 20'-0"

STATE OF ILLINOIS
COUNTY OF LAKE & COOK SS

THIS IS TO CERTIFY THAT I, JASON R. DOLAND, AN ILLINOIS LICENSED LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 4 AND 5, TOWNSHIP 42 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY AND IN SECTIONS 32 AND 33, TOWNSHIP 43 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

MADE FOR THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

DATE THIS _____ DAY OF _____, 20____ A.D.

_____
ILLINOIS LICENSED LAND SURVEYOR No. 035-003546

PARCEL #	OWNER	P.I.N.	TOTAL HOLDING AREA	AREA TAKEN	PREVIOUSLY DEDICATED OR USED AREA	REMAINDER	TEMPORARY EASEMENT	ACQUIRED BY
0014	PALATINE ROAD MALL, LLC	02-14-327-011	0.414 ACRE	0.035 ACRE	0 ACRE	0.379 ACRE	N/A	
0015	DONNA N. SMITH	02-14-327-007	0.204 ACRE	0.015 ACRE	0 ACRE	0.189 ACRE	N/A	
0016	MARY T. HAUGH, DIVORCED AND NOT SINCE REMARRIED	02-14-327-008	0.204 ACRE	0.015 ACRE	0 ACRE	0.189 ACRE	N/A	

STATION	OFFSET	NORTHING	EASTING
219+48.12	44.50' LT.	11490.0662	10392.6282
220+56.52	44.50' LT.	11493.4874	10500.9692
220+80.04	43.72' LT.	11493.4461	10524.5023
221+01.52	43.00' LT.	11493.4084	10545.9940
221+46.00	43.00' LT.	11494.8123	10590.4521
222+11.95	43.00' LT.	11496.8940	10656.3734

REVISED:
JULY 21, 2006
AUGUST 4, 2006
MAY 29, 2007
NOVEMBER 20, 2007
MARCH 6, 2007

McDONOUGH ASSOCIATES, INC.
130 EAST RANDOLPH STREET
SUITE 1000
CHICAGO, IL 60601-6214

W.C. DOLAND ENGINEERING, INC.
334 E. COLFAX STREET, UNIT C1
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PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE: PALATINE ROAD

SECTION: 02-00075-00-PV COUNTY: COOK

PROJECT: PALATINE ROAD RECONSTRUCTION

JOB No.: R-90-002-05

SCALE: 1"=20' SHEET 9 OF 11

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196

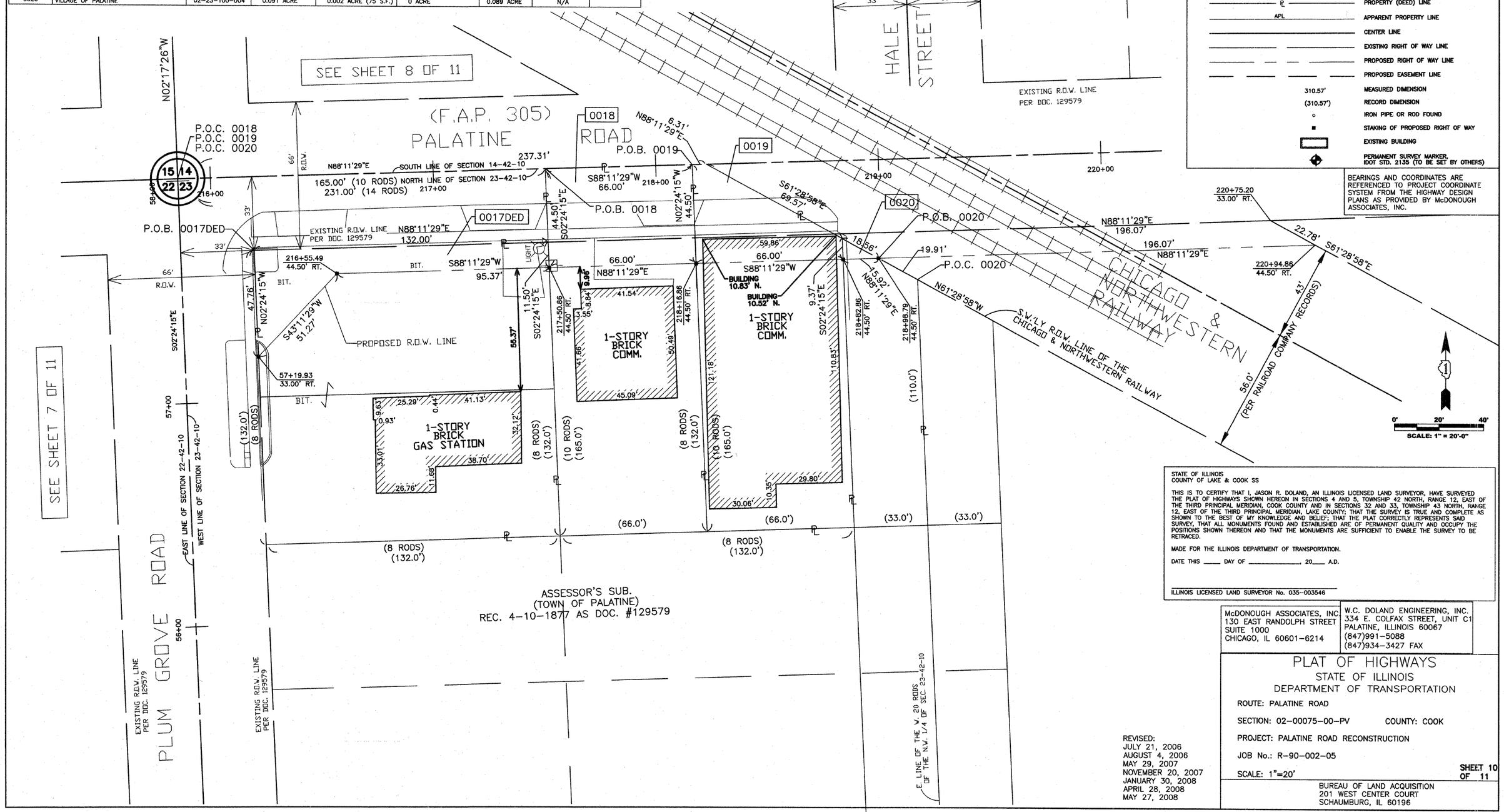
PART OF SEC. 23, T.42 N., R. 10 E. OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS

CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	70
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

PARCEL #	OWNER	P.I.N.	TOTAL HOLDING AREA	AREA TAKEN	PREVIOUSLY DEDICATED OR USED AREA	REMAINDER	PERMANENT EASEMENT	ACQUIRED BY
0017DED	AMERICAN NATIONAL BANK AND TRUST COMPANY OF CHICAGO AS TRUSTEE UNDER TRUST AGREEMENT DATED OCTOBER 30, 1996 KNOWN AS TRUST NO. 5119-AH	02-23-100-001	0.400 ACRE	0.050 ACRE	0 ACRE	0.400 ACRE	N/A	
0018	SUBURBAN NATIONAL BANK OF PALATINE, AS TRUSTEE UNDER TRUST NO. 6343 DATED APRIL 26, 1993	02-23-100-035	0.250 ACRE	0.067 ACRE	0.050 ACRE	0.183 ACRE	N/A	
0019	BALLEY BANK AND TRUST COMPANY, SOUTH ELGIN, AS TRUSTEE UNDER TRUST AGREEMENT DATED AUGUST 18, 1975	02-23-100-036	0.226 ACRE	0.043 ACRE	0.026 ACRE	0.183 ACRE	N/A	
0020	VILLAGE OF PALATINE	02-23-100-004	0.091 ACRE	0.002 ACRE (75 S.F.)	0 ACRE	0.089 ACRE	N/A	

STATION	OFFSET	NORTHING	EASTING
57+19.93	33.00' RT.	11354.4955	10067.8628
216+55.49	44.50' RT.	11391.8745	10102.9533
217+50.86	44.50' RT.	11394.8846	10198.2763
218+16.86	44.50' RT.	11396.9677	10264.2434
218+82.86	44.50' RT.	11399.0508	10330.2105
218+98.79	44.50' RT.	11399.5534	10346.1264



QUARTER 12 SECTION CORNER

SECTION CORNER

SECTION LINE

PLATTED LOT LINE

℄ PROPERTY (DEED) LINE

APL APPARENT PROPERTY LINE

CENTER LINE

EXISTING RIGHT OF WAY LINE

PROPOSED RIGHT OF WAY LINE

PROPOSED EASEMENT LINE

310.57' MEASURED DIMENSION

(310.57') RECORD DIMENSION

IRON PIPE OR ROD FOUND

STAKING OF PROPOSED RIGHT OF WAY

EXISTING BUILDING

PERMANENT SURVEY MARKER, IDOT STD. 2135 (TO BE SET BY OTHERS)

BEARINGS AND COORDINATES ARE REFERENCED TO PROJECT COORDINATE SYSTEM FROM THE HIGHWAY DESIGN PLANS AS PROVIDED BY McDONOUGH ASSOCIATES, INC.

STATE OF ILLINOIS
COUNTY OF LAKE & COOK SS

THIS IS TO CERTIFY THAT I, JASON R. DOLAND, AN ILLINOIS LICENSED LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 4 AND 5, TOWNSHIP 42 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY AND IN SECTIONS 32 AND 33, TOWNSHIP 43 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

MADE FOR THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

DATE THIS ____ DAY OF _____, 20____ A.D.

_____
ILLINOIS LICENSED LAND SURVEYOR No. 035-003546

McDONOUGH ASSOCIATES, INC.
130 EAST RANDOLPH STREET
SUITE 1000
CHICAGO, IL 60601-6214

W.C. DOLAND ENGINEERING, INC.
334 E. COLFAX STREET, UNIT C1
PALATINE, ILLINOIS 60067
(847)991-5088
(847)934-3427 FAX

REVISED:
JULY 21, 2006
AUGUST 4, 2006
MAY 29, 2007
NOVEMBER 20, 2007
JANUARY 30, 2008
APRIL 28, 2008
MAY 27, 2008

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE: PALATINE ROAD

SECTION: 02-00075-00-PV COUNTY: COOK

PROJECT: PALATINE ROAD RECONSTRUCTION

JOB No.: R-90-002-05

SCALE: 1"=20'

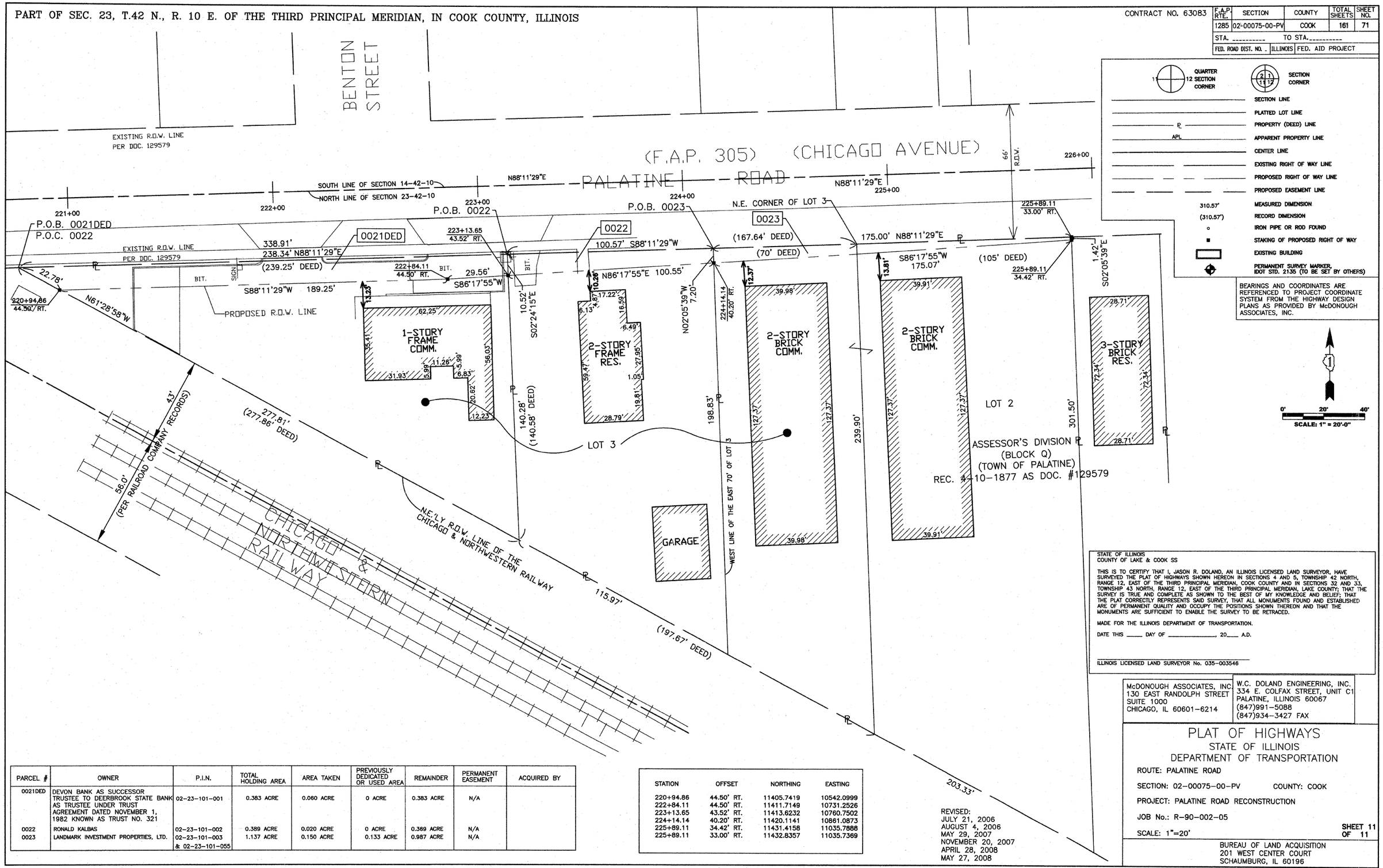
SHEET 10 OF 11

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196

PART OF SEC. 23, T.42 N., R. 10 E. OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS

CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	71
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



QUARTER 12 SECTION CORNER
SECTION CORNER
SECTION LINE
PLATTED LOT LINE
PROPERTY (DEED) LINE
APPARENT PROPERTY LINE
CENTER LINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
PROPOSED EASEMENT LINE
310.57' MEASURED DIMENSION
(310.57') RECORD DIMENSION
IRON PIPE OR ROD FOUND
STAKING OF PROPOSED RIGHT OF WAY
EXISTING BUILDING
PERMANENT SURVEY MARKER, IDOT STD. 2135 (TO BE SET BY OTHERS)

BEARINGS AND COORDINATES ARE REFERENCED TO PROJECT COORDINATE SYSTEM FROM THE HIGHWAY DESIGN PLANS AS PROVIDED BY McDONOUGH ASSOCIATES, INC.

0' 20' 40'
SCALE: 1" = 20'-0"

PARCEL #	OWNER	P.I.N.	TOTAL HOLDING AREA	AREA TAKEN	PREVIOUSLY DEDICATED OR USED AREA	REMAINDER	PERMANENT EASEMENT	ACQUIRED BY
0021DED	DEVON BANK AS SUCCESSOR TRUSTEE TO DEERBROOK STATE BANK AS TRUSTEE UNDER TRUST AGREEMENT DATED NOVEMBER 1, 1982 KNOWN AS TRUST NO. 321	02-23-101-001	0.383 ACRE	0.060 ACRE	0 ACRE	0.383 ACRE	N/A	
0022	RONALD KALBAS	02-23-101-002	0.389 ACRE	0.020 ACRE	0 ACRE	0.369 ACRE	N/A	
0023	LANDMARK INVESTMENT PROPERTIES, LTD.	02-23-101-003 & 02-23-101-055	1.137 ACRE	0.150 ACRE	0.133 ACRE	0.987 ACRE	N/A	

STATION	OFFSET	NORTHING	EASTING
220+94.86	44.50' RT.	11405.7419	10542.0999
222+84.11	44.50' RT.	11411.7149	10731.2526
223+13.65	43.52' RT.	11413.6232	10760.7502
224+14.14	40.20' RT.	11420.1141	10861.0873
225+89.11	34.42' RT.	11431.4158	11035.7888
225+89.11	33.00' RT.	11432.8357	11035.7369

REVISED:
JULY 21, 2006
AUGUST 4, 2006
MAY 29, 2007
NOVEMBER 20, 2007
APRIL 28, 2008
MAY 27, 2008

STATE OF ILLINOIS
COUNTY OF LAKE & COOK SS

THIS IS TO CERTIFY THAT I, JASON R. DOLAND, AN ILLINOIS LICENSED LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 4 AND 5, TOWNSHIP 42 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY AND IN SECTIONS 32 AND 33, TOWNSHIP 43 NORTH, RANGE 12, EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

MADE FOR THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

DATE THIS _____ DAY OF _____, 20____ A.D.

_____
ILLINOIS LICENSED LAND SURVEYOR No. 035-003546

McDONOUGH ASSOCIATES, INC.
130 EAST RANDOLPH STREET
SUITE 1000
CHICAGO, IL 60601-6214

W.C. DOLAND ENGINEERING, INC.
334 E. COLFAX STREET, UNIT C1
PALATINE, ILLINOIS 60067
(847)991-5088
(847)934-3427 FAX

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE: PALATINE ROAD
SECTION: 02-00075-00-PV COUNTY: COOK
PROJECT: PALATINE ROAD RECONSTRUCTION
JOB No.: R-90-002-05
SCALE: 1"=20'

SHEET 11 OF 11

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196

PART OF SEC. 23, T.42 N., R. 10 E. OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS

CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	72
STA. _____	TO STA._____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

QUARTER 12 SECTION CORNER

SECTION CORNER

SECTION LINE

PLATTED LOT LINE

PROPERTY (DEED) LINE

APPARENT PROPERTY LINE

CENTER LINE

EXISTING RIGHT OF WAY LINE

PROPOSED RIGHT OF WAY LINE

PROPOSED EASEMENT LINE

310.57' MEASURED DIMENSION

(310.57') RECORD DIMENSION

IRON PIPE OR ROD FOUND

STAKING OF PROPOSED RIGHT OF WAY

PERMANENT SURVEY MARKER, IDOT STD. 2135 (TO BE SET BY OTHERS)

BEARINGS AND COORDINATES ARE REFERENCED TO PROJECT COORDINATE SYSTEM FROM THE HIGHWAY DESIGN PLANS AS PROVIDED BY McDONOUGH ASSOCIATES, INC.

JUNE 12, 2009

SCALE: 1" = 20'-0"

SLADE STREET

RAILROAD PARCEL C (0.056 AC.)

RAILROAD PARCEL D (0.026 AC.)

RAILROAD PARCEL B (0.033 AC.)

RAILROAD PARCEL A (0.057 AC.)

LOT 1 LOT 2 LOT 3 LOT 4 LOT 5

BLOCK N
TOWN OF PALATINE
REC. 4-10-1877 AS DOC. #129579

PLUM GROVE ROAD

HALE STREET

CHICAGO & NORTHWESTERN RAILWAY

S.W'LY R.O.W. LINE OF THE CHICAGO & NORTHWESTERN RAILWAY

PROPOSED R.O.W. LINE

PART OF LOT 5 IN BLOCK N ASSESSOR'S DIVISION (TOWN OF PALATINE) (REC. 4-10-1877 AS DOC. #129579)

EXISTING R.O.W. LINE PER DOC. 129579

65' R.O.W.

66' R.O.W.

60+75.11 48.00' LT.

17.46' S61°28'58"E

60+66.17 33.00' LT.

35.0' (PER VILLAGE RECORDS)

106.0' (PER RAILROAD COMPANY RECORDS) (AND CLARIFIED BY NEARBY PARCEL TITLE RECORDS)

48.00'

33.00'

33.00'

43.00'

60+36.13 33.00' RT.

11.64' S61°28'58"E

60+30.16 43.00' RT.

N02°17'26"W 164.17'

S02°17'26"E 164.17'

115.27' N02°17'26"W

115.27' S02°17'26"E

43.0' (PER RAILROAD COMPANY RECORDS)

56.0' (PER RAILROAD COMPANY RECORDS)

60+00

61+00

59+00

58+00

59+02.00 33.00' LT.

38.42' S61°28'58"E

59+20.86 33.00' RT.

59+10.95 48.00' LT.

38.42' N61°28'58"W

17.46' N61°28'58"W

59+14.90 43.00' RT.

11.64' N61°28'58"W

139.51'

81.30' N02°17'26"W

EAST LINE OF SECTION 15-42-10
WEST LINE OF SECTION 14-42-10

EAST LINE OF SECTION 22-42-10
WEST LINE OF SECTION 23-42-10

P.O.B. - RAILROAD PARCEL C

P.O.B. - RAILROAD PARCEL D

P.O.B. - RAILROAD PARCEL B

P.O.B. - RAILROAD PARCEL A

P.O.C. - RAILROAD PARCEL A
P.O.C. - RAILROAD PARCEL B
P.O.C. - RAILROAD PARCEL C
P.O.C. - RAILROAD PARCEL D

EXISTING R.O.W. LINE

219+48.12 44.50' LT.

135.48' N88°11'29"E

11.50' S02°17'55"E

217+46.64 44.50' LT.

N61°28'58"W 22.78'

115.92' S88°11'29"W

219+48.22 33.00' LT.

217+66.30 33.00' LT.

N61°28'58"W 65.36'

S61°28'58"E 65.36'

44.50'

33.00'

(F.A.P. 305)

PALATINE ROAD

N88°11'29"E 237.31'

SOUTH LINE OF SECTION 15-42-10
NORTH LINE OF SECTION 22-42-10

SOUTH LINE OF SECTION 14-42-10
NORTH LINE OF SECTION 23-42-10

N87°51'28"E

215+00 216+00 217+00 218+00 219+00 220+00

15 14 22 23

N88°11'29"E 196.07'

220+75.20 33.00' RT.

22.78' S61°28'58"E

S88°11'29"W 168.99'

220+94.86 44.50' RT.

220+26.03 44.50' RT.

15.94' S02°24'15"E

219+26.03 60.44' RT.

54.34' N61°28'58"W

218+79.13 33.00' RT.

218+86.79 44.50' RT.

22.78' N61°28'58"W

43' (PER RAILROAD COMPANY RECORDS)

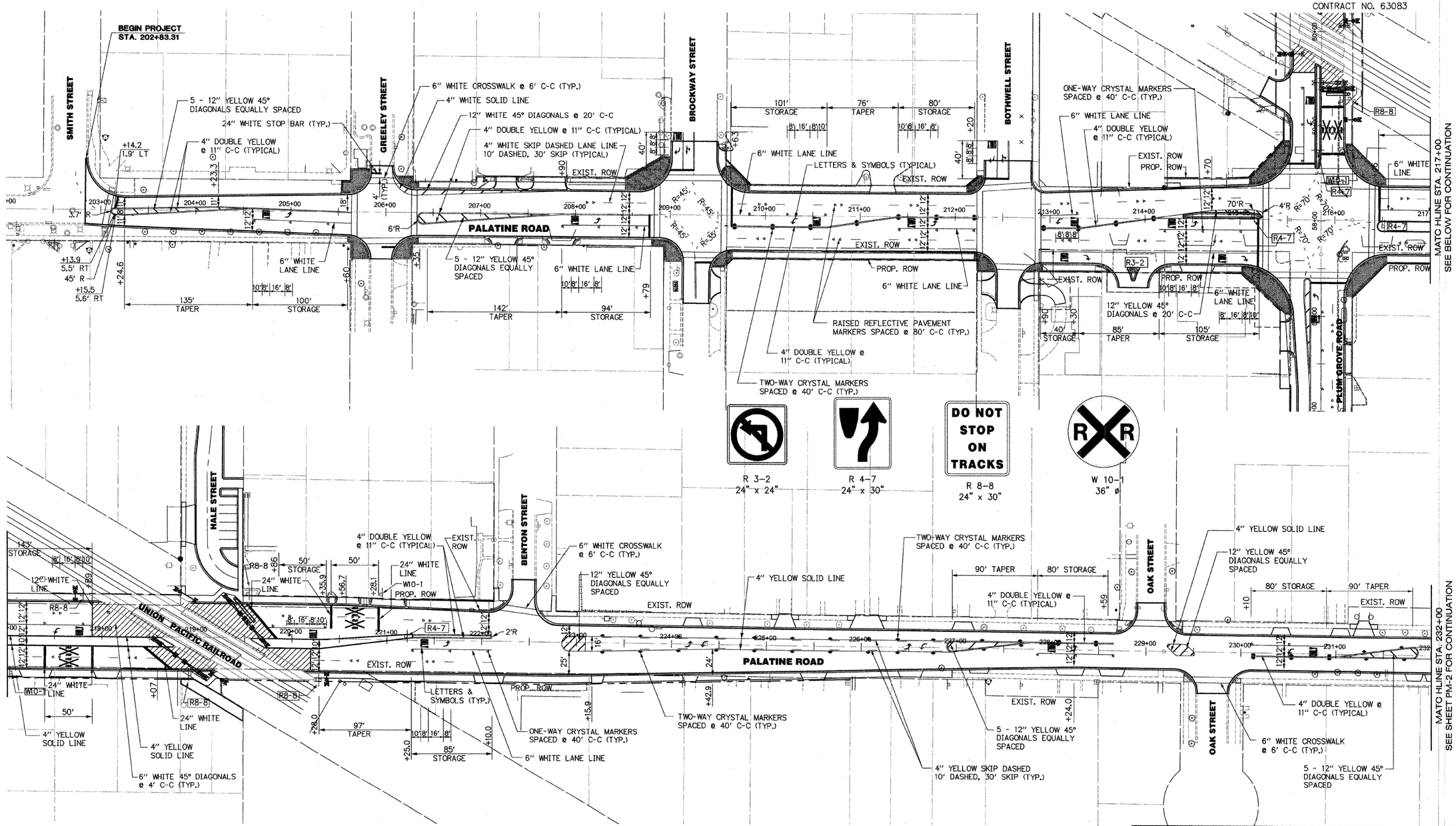
56.0' (PER RAILROAD COMPANY RECORDS)

S.W'LY R.O.W. LINE OF THE CHICAGO & NORTHWESTERN RAILWAY

ROUTE: PALATINE ROAD | SECTION: 02-00075-00-PV | COUNTY: COOK | JOB No.: R90-002-05 | RW-11

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	73
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083



R 3-2
24" x 24"

R 4-7
24" x 30"

R 8-8
24" x 30"

W 10-1
36" ø

NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS NOTED OTHERWISE.
2. FOR SIGNS NOT SHOWN, THE EXISTING SIGNS SHALL BE REPLACED IN KIND AS DIRECTED BY THE ENGINEER. THESE SIGNS INCLUDE BUT ARE NOT LIMITED TO STOP SIGNS, SPEED LIMIT SIGNS, STREET NAME SIGNS, NO PARKING SIGNS, WARNING SIGNS AND REGULATORY SIGNS.
3. SIGNS SHALL CONFORM TO THE SSRBC AND THE ILLINOIS MUTCD.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

PAVEMENT MARKING AND SIGNING PLANS

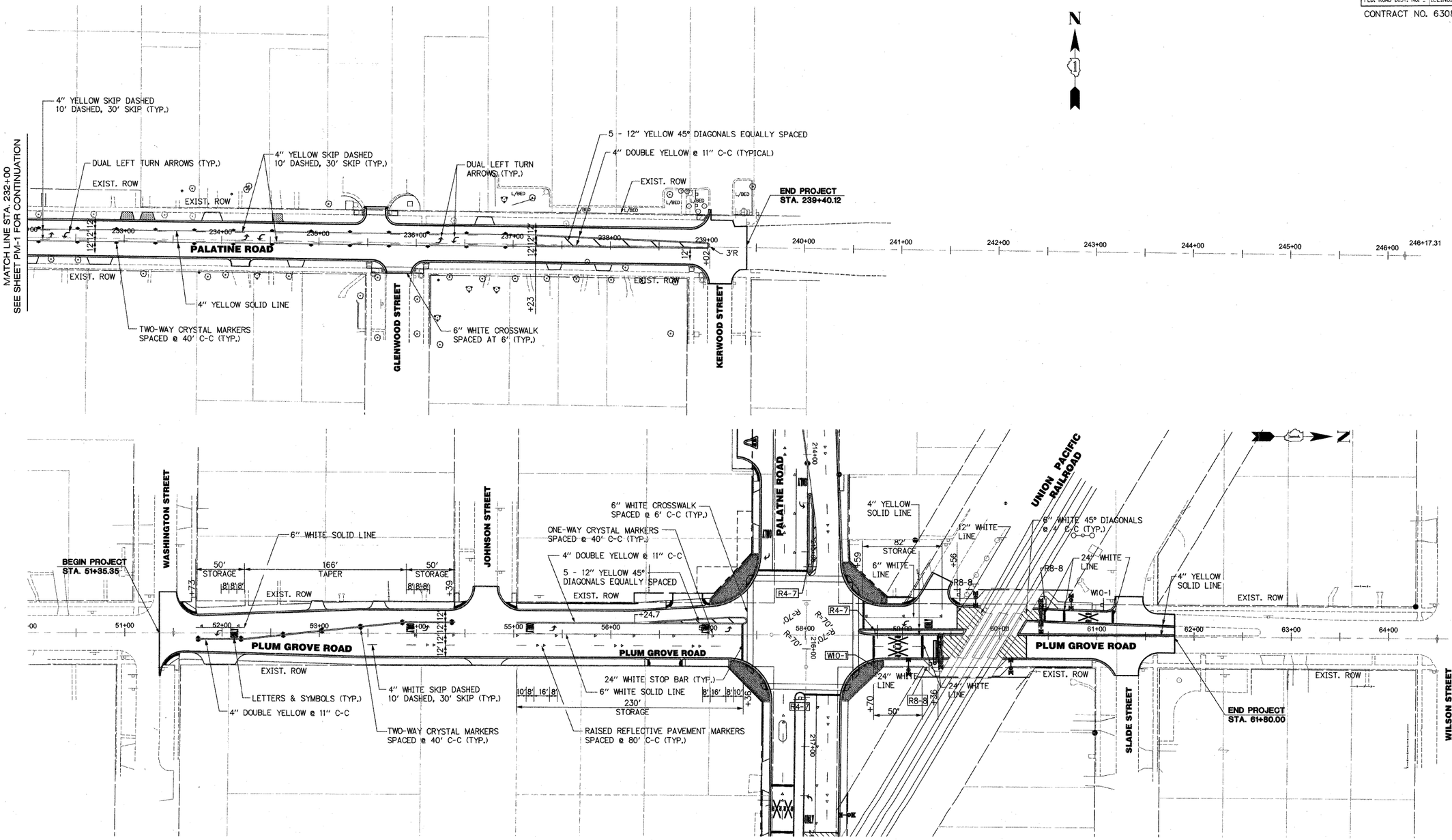
SCALE: VERT. N.T.S.
HORIZ. 1" = 50'
DATE OCTOBER 19, 2009

DRAWN BY JTF
CHECKED BY BA

PM-1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	74
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 63083



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE

PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

PAVEMENT MARKING AND SIGNING PLANS

SCALE: VERT. N.T.S.
HORIZ. 1" = 50'

DATE OCTOBER 19, 2009

DRAWN BY JTF

CHECKED BY BA

PM-2

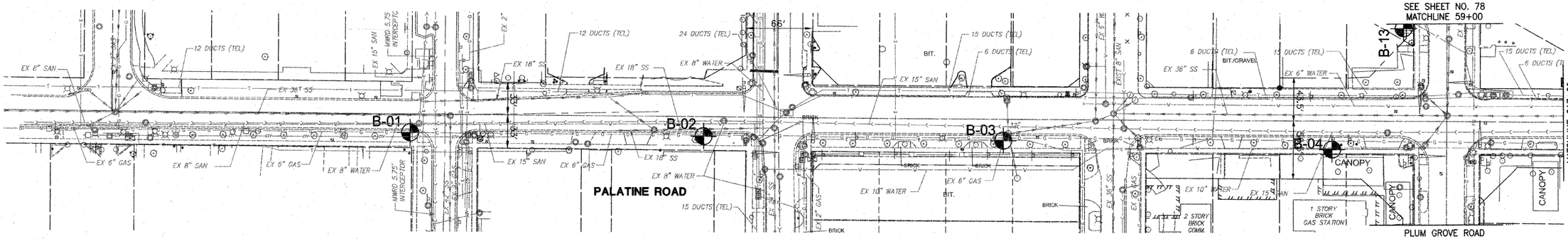
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
–	*	COOK	161	75
–				
FED.ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT.	

* 02-00075-00-PV

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
DATE
BY

SMITH STREET | GREELEY STREET | BROCKWAY STREET | BOTHWELL STREET

PLUM GROVE ROAD
SEE SHEET NO. 78
MATCHLINE 59+00



MATCHLINE 217+00
SEE SHEET NO. 76

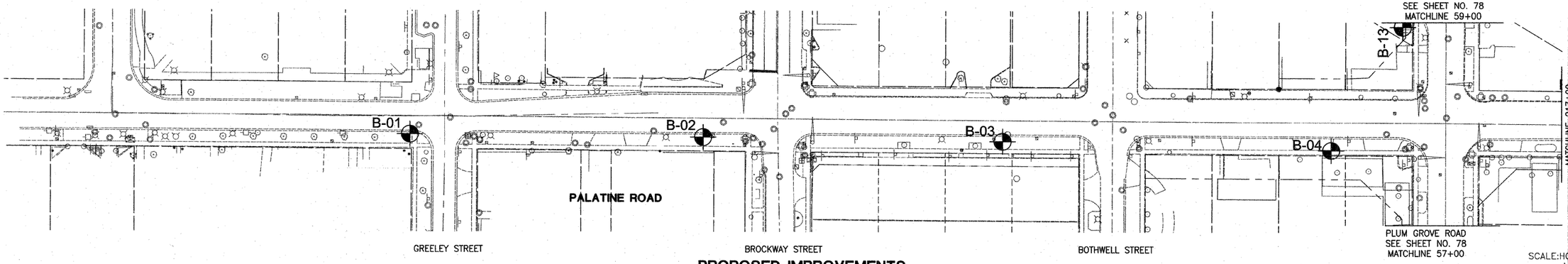
PLUM GROVE ROAD
SEE SHEET NO. 78
MATCHLINE 57+00

APPROXIMATE BORING LOCATION

EXISTING CONDITIONS

SMITH STREET | GREELEY STREET | BROCKWAY STREET | BOTHWELL STREET

PLUM GROVE ROAD
SEE SHEET NO. 78
MATCHLINE 59+00



MATCHLINE 217+00
SEE SHEET NO. 76

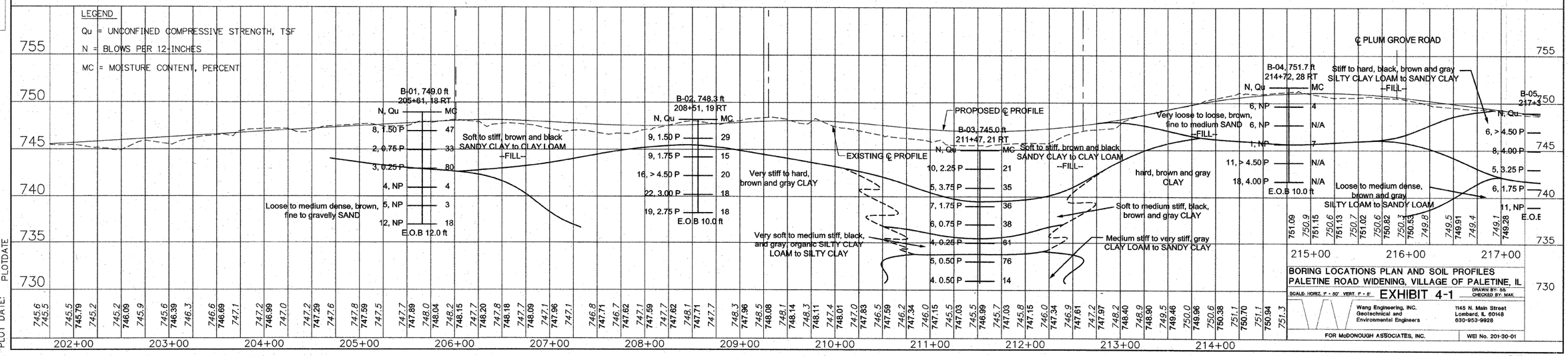
PLUM GROVE ROAD
SEE SHEET NO. 78
MATCHLINE 57+00

PROFILE
SURVEYED
PLOTTED
DRAWN
CHECKED
E.M. NOTED
STRUCTURE NO
PATHS CHKD
NOTE BOOK
NO.
BY

GREELEY STREET | BROCKWAY STREET | BOTHWELL STREET

SCALE: HORIZ: 1"=50'
VERT: 1"=5'

PROPOSED IMPROVEMENTS



BORING LOCATIONS PLAN AND SOIL PROFILES
PALATINE ROAD WIDENING, VILLAGE OF PALATINE, IL

SCALE: HORIZ. 1" = 50' VERT. 1" = 5' — DRAWN BY: SS CHECKED BY: MAK

EXHIBIT 4-1

Wang Engineering, INC.
Geotechnical and Environmental Engineers
1145 N. Main Street
Lombard, IL 60148
630-953-9928

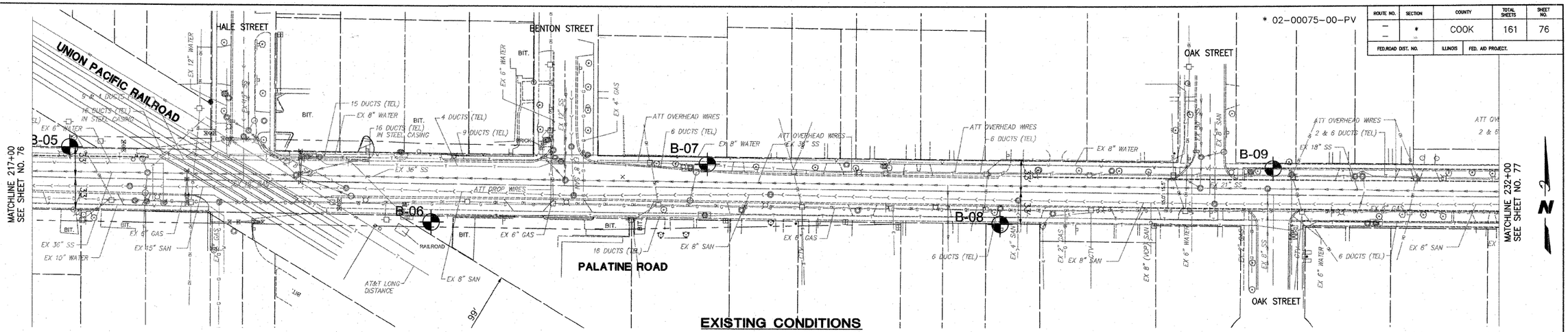
FOR McDONOUGH ASSOCIATES, INC. — WEI No. 201-30-01

DRAWING ID: DRAWID
PLOT DATE: PLOTDATE

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
—	*	COOK	161	76
—				
FED.ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT.	

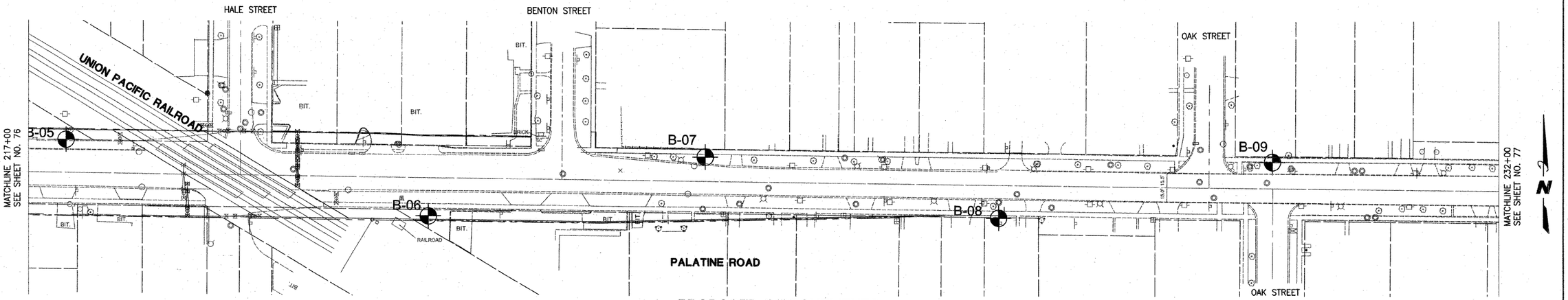
* 02-00075-00-PV

PLAN — SURVEYED; PLOTTED; ALIGNMENT CHECKED; RT. OF WAY CHECKED; CADD FILE NAME; NOTE BOOK; NO.; BY; DATE



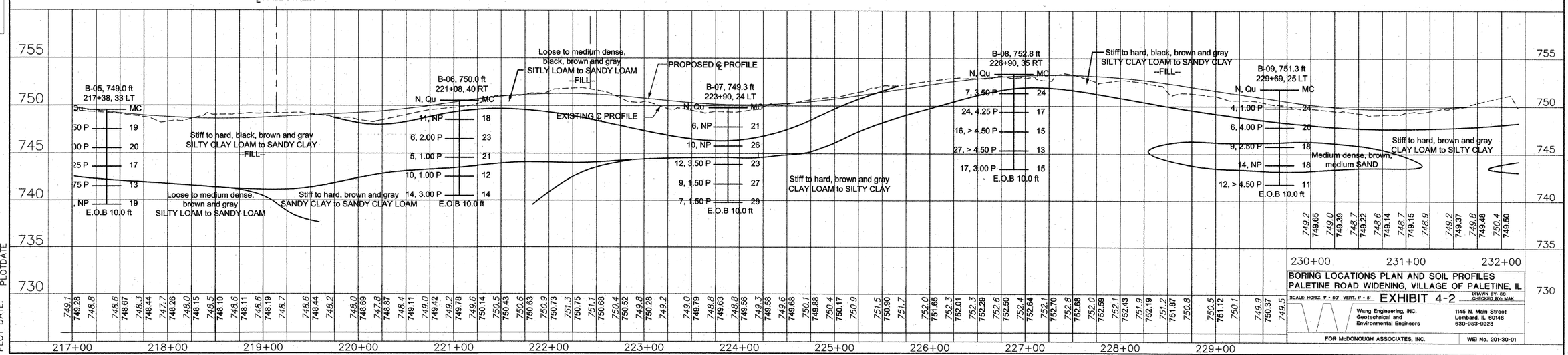
EXISTING CONDITIONS

PROFILE — SURVEYED; PLOTTED; DRAWING CHECKED; B.M. NOTED; STRUCTURE NO'S/ATN'S CH'KD; NOTE BOOK; NO.; BY; DATE



PROPOSED IMPROVEMENTS

SCALE:HORIZ: 1"=50'
VERT: 1"=5'



DRAWING ID: DRAWID
PLOT DATE: PLOTDATE

BORING LOCATIONS PLAN AND SOIL PROFILES
PALETINE ROAD WIDENING, VILLAGE OF PALETINE, IL

SCALE: HORIZ. 1" = 50' VERT. 1" = 5' — DRAWN BY: SS — CHECKED BY: MAK

EXHIBIT 4-2

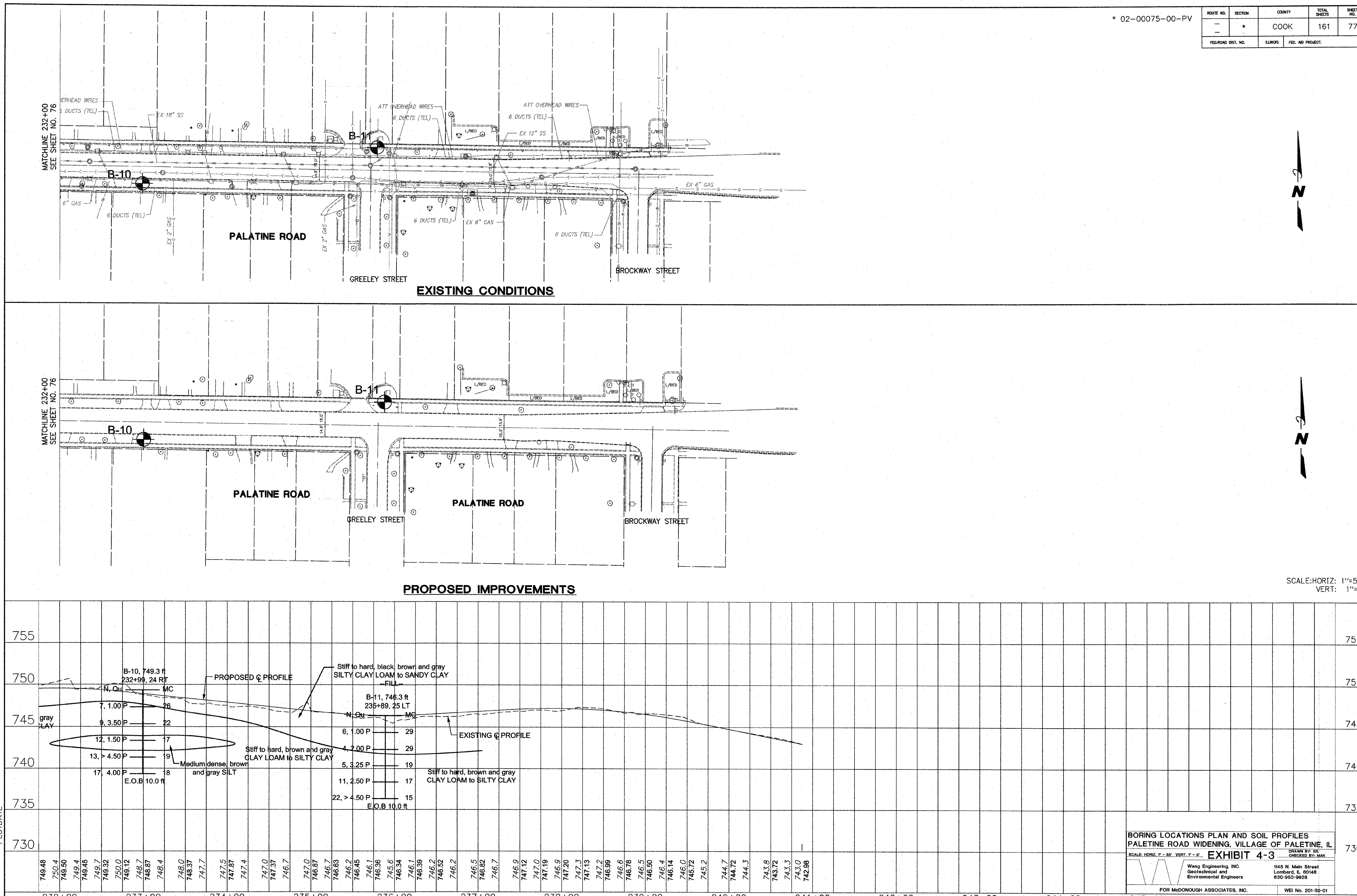
Wang Engineering, INC.
Geotechnical and Environmental Engineers
1145 N. Main Street
Lombard, IL 60148
630-953-9929

FOR McDONOUGH ASSOCIATES, INC. — WEI No. 201-30-01

* 02-00075-00-PV

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
—	*	COOK	161	77

FED.ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT.



BORING LOCATIONS PLAN AND SOIL PROFILES
PALETINE ROAD WIDENING, VILLAGE OF PALETINE, IL

SCALE: HORIZ. 1" = 50' VERT. 1" = 5'

EXHIBIT 4-3

DRAWN BY: SS
CHECKED BY: MAK

Wang Engineering, INC.
Geotechnical and
Environmental Engineers

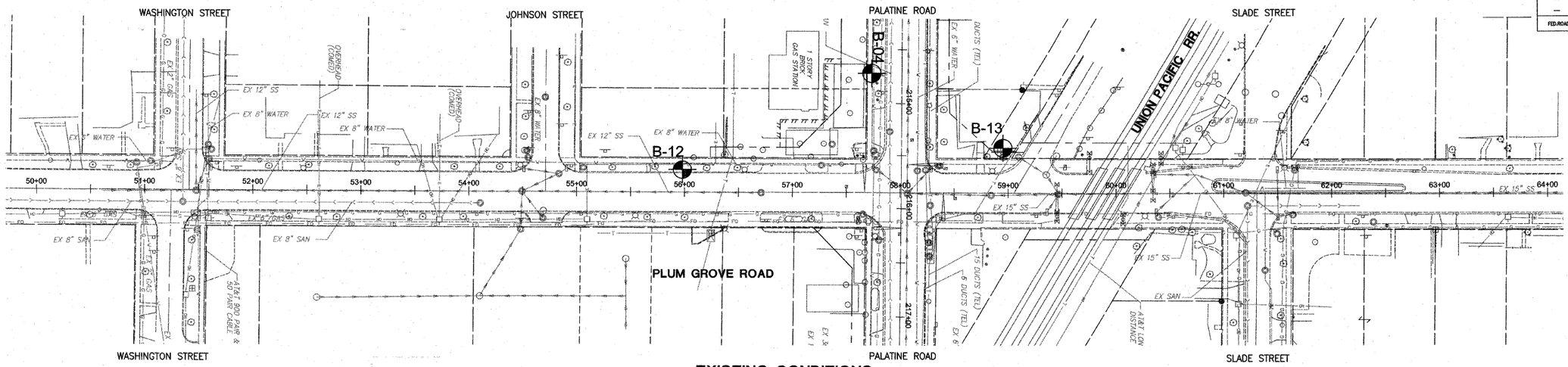
1145 N. Main Street
Lombard, IL 60148
630-953-9928

FOR McDONOUGH ASSOCIATES, INC. | WEI No. 201-30-01

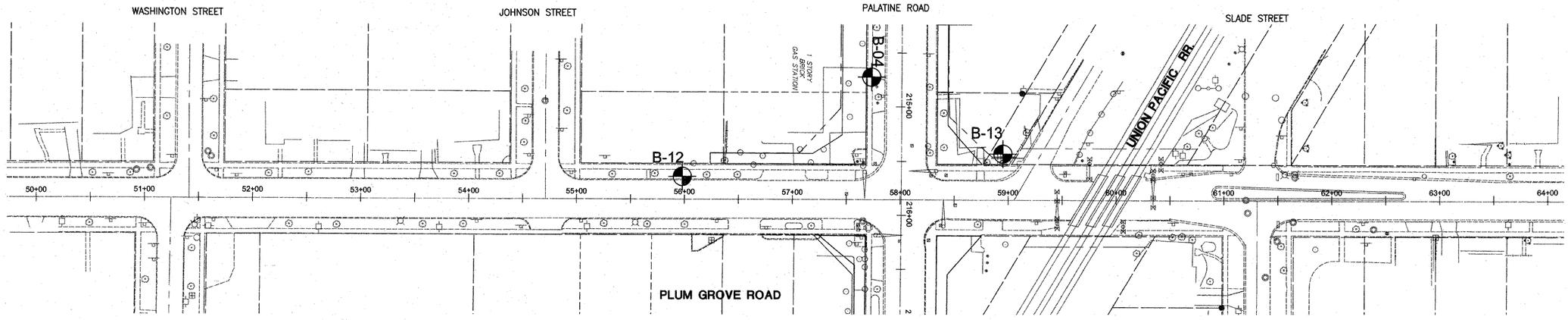
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
–	*	COOK	161	78
FED.ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT.	

* 02-00075-00-PV

PLAN
SURVEYED
DRAWN
ALIGNMENT CHECKED
RT. OF WAY CHECKED
QUAD. FILE NAME
NOTE BOOK
NO.
BY
DATE



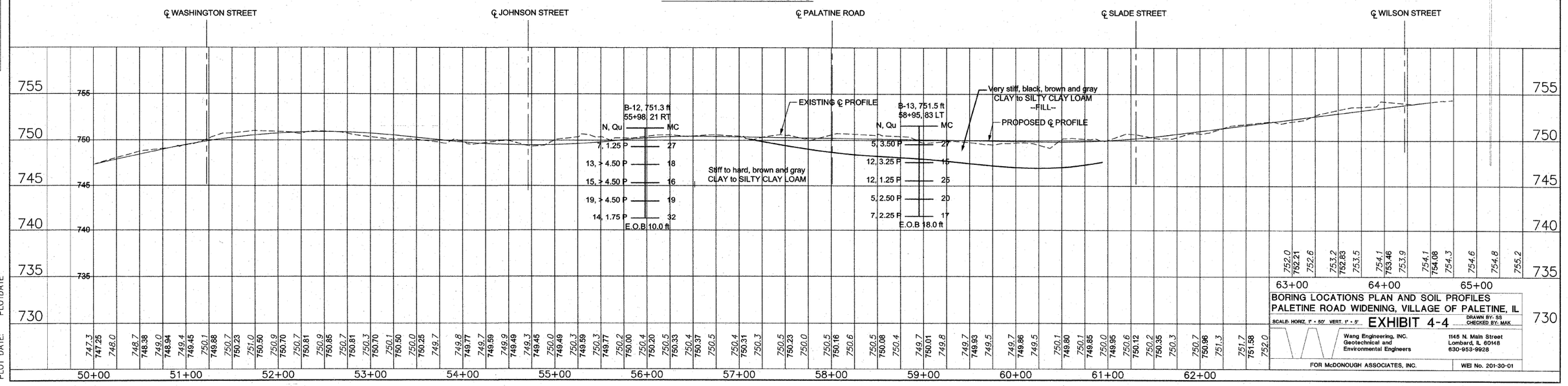
EXISTING CONDITIONS



SCALE:HORIZ: 1"=50
VERT: 1"=5'

EXISTING CONDITIONS

PROFILE
SURVEYED
DRAWN
GRADES CHECKED
STM. NOTED
STRUCTURE NOTATNS CK'KD
NOTE BOOK
NO.
DATE



DRAWING ID:
PLOT DATE:
DRAWID
PLOTDATE

BORING LOCATIONS PLAN AND SOIL PROFILES
PALETINE ROAD WIDENING, VILLAGE OF PALETINE, IL

SCALE: HORIZ. 1" = 50' VERT. 1" = 5' **EXHIBIT 4-4** DRAWN BY: SS CHECKED BY: MAK

Wang Engineering, INC.
Geotechnical and Environmental Engineers
1145 N. Main Street
Lombard, IL 60148
630-953-9928

FOR McDONOUGH ASSOCIATES, INC. WEI No. 201-30-01

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	79

STA. ________ TO STA. ________

FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT

CONTRACT NO. 63083

TRAFFIC SIGNAL NOTES:

1. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE TRAFFIC SIGNAL SYSTEM. FOR LOCATION OF UTILITIES, CALL J.U.L.I.E. AT 1-800-892-0123.
2. ALL SIGNAL POSTS AND MAST ARM POLES SHALL BE LOCATED A MINIMUM OF FOUR (4) AND SIX (6) FEET, RESPECTIVELY, FROM THE BACK OF CURB UNLESS OTHERWISE NOTED OR DIMENSIONED IN THE PLANS.
3. ALL DETECTOR LOOPS SHALL BE INSTALLED AS DETECTOR LOOP TYPE I UNLESS OTHERWISE NOTED.

CONSTRUCTION NOTES:

(1) THE CONTRACTOR SHALL INSTALL A SECOND ELECTRIC CABLE IN CONDUIT NO. 14 3/C RAILROAD INTERCONNECT TO BE USED FOR THE PERMANENT TRAFFIC SIGNAL.

(2) WHEN HIGHWAY-RAIL GRADE CROSSINGS EXIST EITHER WITHIN OR IN THE VICINITY OF A TTC ZONE, LANE RESTRICTIONS, FLAGGING, OR OTHER OPERATIONS SHALL NOT CREATE CONDITIONS WHERE VEHICLES CAN BE QUEUED ACROSS THE RAILROAD TRACKS. IF THE QUEUING OF VEHICLES ACROSS THE TRACKS CANNOT BE AVOIDED, A UNIFORMED LAW ENFORCEMENT OFFICER OR FLAGGER SHALL BE PROVIDED AT THE CROSSING TO PREVENT VEHICLES FROM STOPPING ON THE TRACKS, EVEN IF AUTOMATIC WARNING DEVICES ARE IN PLACE.

(3) RELOCATE EXISTING LIGHT DETECTORS AND CONFIRMATION BEACONS TO THE NEW MAST ARMS.

(4) RELOCATE EXISTING LIGHT DETECTOR AMPLIFIER TO NEW CONTROLLER CABINET.

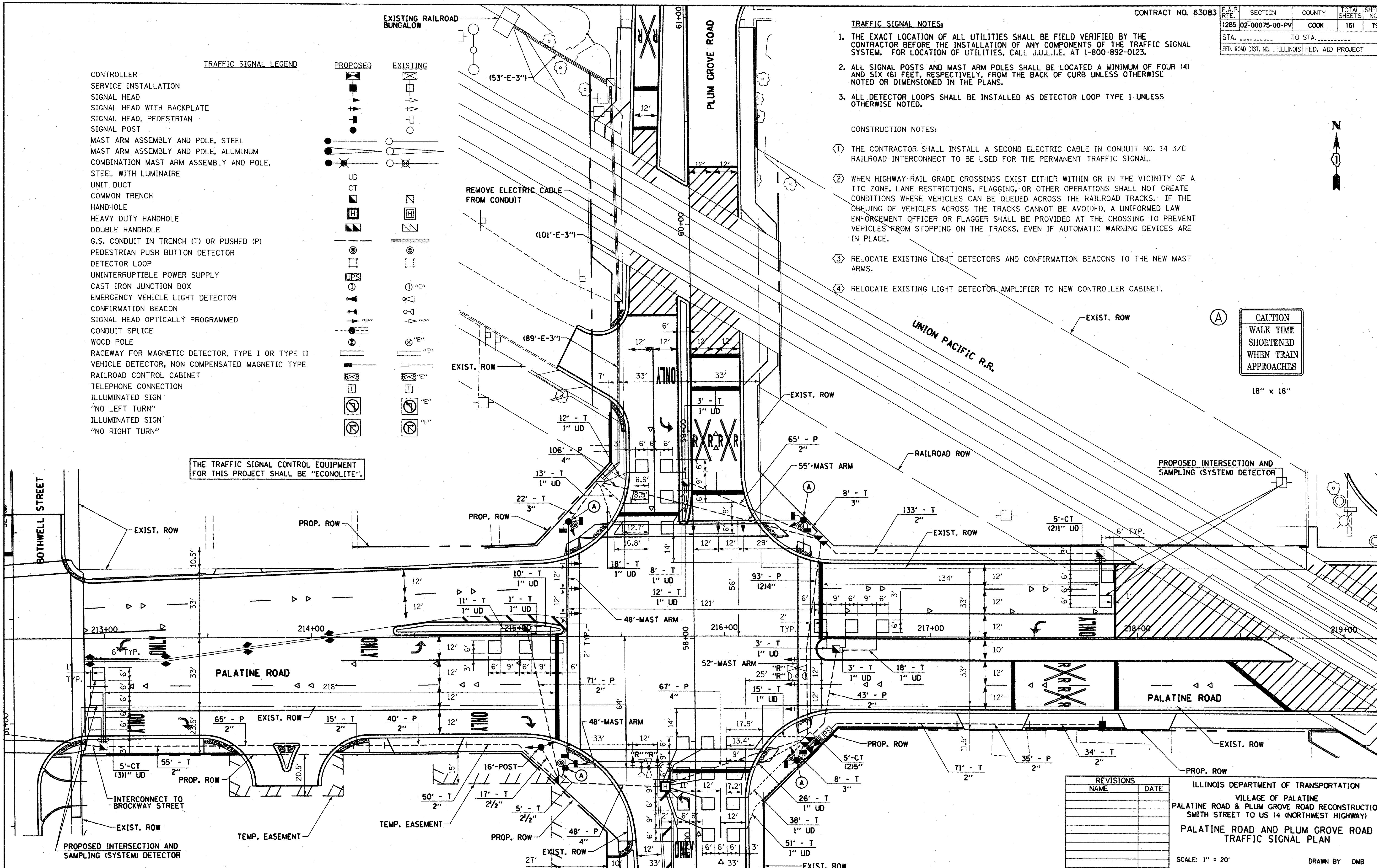
(A) CAUTION WALK TIME SHORTENED WHEN TRAIN APPROACHES

18" × 18"

TRAFFIC SIGNAL LEGEND (PROPOSED / EXISTING)

- CONTROLLER
- SERVICE INSTALLATION
- SIGNAL HEAD
- SIGNAL HEAD WITH BACKPLATE
- SIGNAL HEAD, PEDESTRIAN
- SIGNAL POST
- MAST ARM ASSEMBLY AND POLE, STEEL
- MAST ARM ASSEMBLY AND POLE, ALUMINUM
- COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE
- UNIT DUCT — UD
- COMMON TRENCH — CT
- HANDHOLE
- HEAVY DUTY HANDHOLE
- DOUBLE HANDHOLE
- G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)
- PEDESTRIAN PUSH BUTTON DETECTOR
- DETECTOR LOOP
- UNINTERRUPTIBLE POWER SUPPLY — UPS
- CAST IRON JUNCTION BOX — (existing "E")
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- SIGNAL HEAD OPTICALLY PROGRAMMED — "P"
- CONDUIT SPLICE
- WOOD POLE — (existing "E")
- RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II — (existing "E")
- VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE
- RAILROAD CONTROL CABINET — (existing "E")
- TELEPHONE CONNECTION
- ILLUMINATED SIGN "NO LEFT TURN" — (existing "E")
- ILLUMINATED SIGN "NO RIGHT TURN" — (existing "E")

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



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

PALATINE ROAD AND PLUM GROVE ROAD TRAFFIC SIGNAL PLAN

SCALE: 1" = 20' DRAWN BY DMB

DATE OCTOBER 19, 2009 CHECKED BY RY

TD-1

PLOT DATE = $DATE$ FILE NAME = $REQUEST$ PLOT SCALE = $SCALE$ USER NAME = $USER$

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CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	80
STA. ----------	TO STA. ----------			
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

CABLE PLAN LEGEND

EXISTING	PROPOSED		EXISTING	PROPOSED	
		SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD		G	8" (200mm) TRAFFIC SIGNAL SECTION
				R	12" (300mm) TRAFFIC SIGNAL SECTION
				W	12" (300mm) PEDESTRIAN SIGNAL SECTION
					12" (300mm) PEDESTRIAN SIGNAL SECTION
"E"		RAILROAD CONTROL CABINET			CONTROLLER CABINET
"E"		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"			SERVICE INSTALLATION
"E"		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"		T	TELEPHONE CONNECTION
					MAGNETIC DETECTOR
H/C	C	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C).			EMERGENCY VEHICLE LIGHT DETECTOR
					CONFIRMATION BEACON
P	P	GROUND ROD AT POST (P), OR MAST ARM POLE (MA).			PUSHBUTTON DETECTOR
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION			VEHICLE DETECTOR, INDUCTION LOOP
				PD	DENOTES PREFORMED DETECTOR LOOP
1	1	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)	2	2	DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
24	24	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F			
	1	NO. 14 1/C TRACER CABLE			
	UPS	UNINTERRUPTIBLE POWER SUPPLY			

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

THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

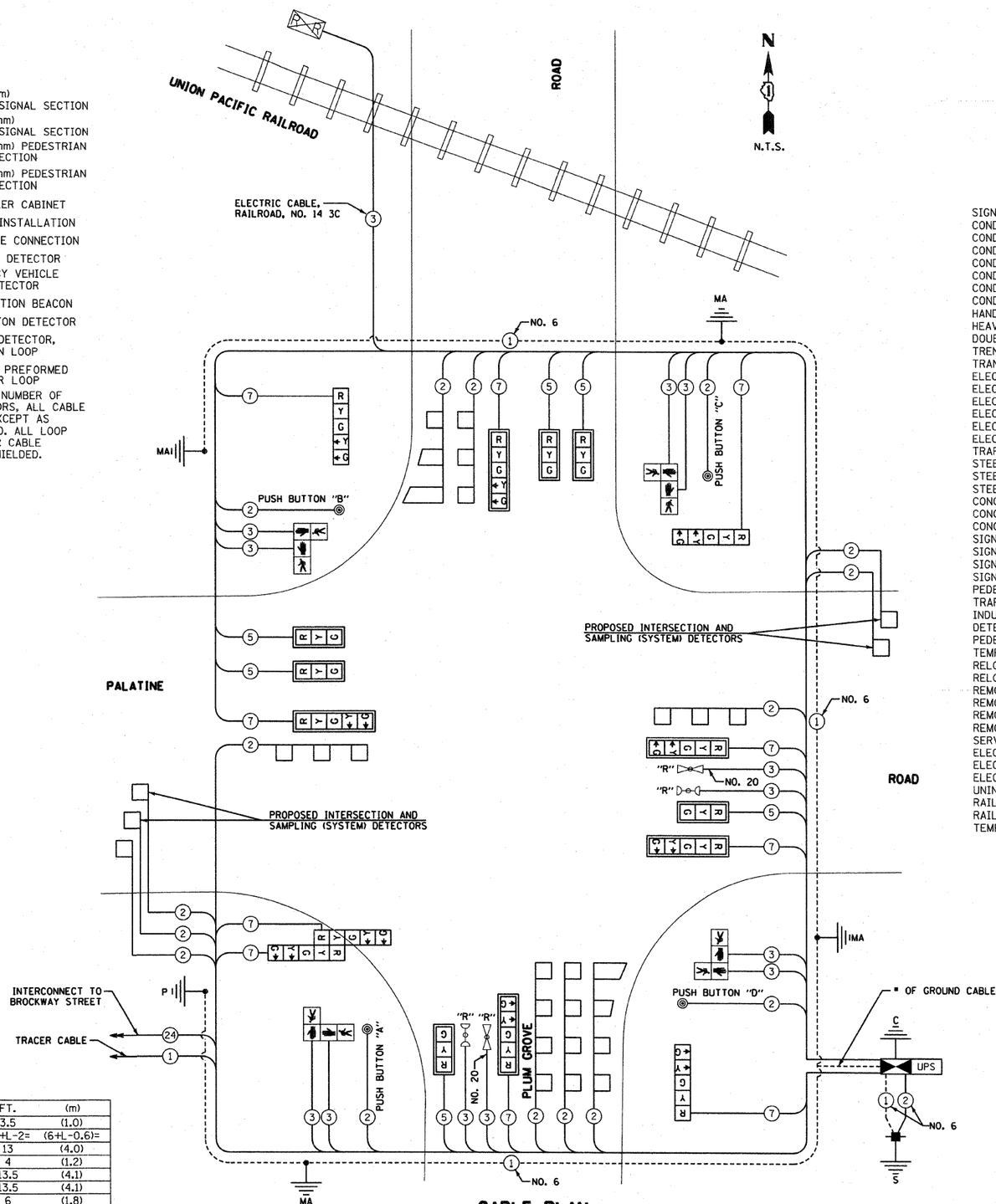
I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS		WATTAGE			TOTAL WATTAGE
TYPE	NO. OF LAMPS	x INCAND.	LED	x % OPERATION	
SIGNAL (RED)	16	135	17	0.50	136
(YELLOW)	16	135	25	0.25	100
(GREEN)	16	135	15	0.25	60
ARROW	20	135	12	0.10	24
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
BATTERY BACKUP	1		25	1.00	25
ILLUM. SIGN		252		0.05	
FLASHER			25	0.50	
ENERGY COST TO:				TOTAL =	645

ILLINOIS DEPARTMENT OF TRANSPORTATION

201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: ELLI SARALLO
PHONE: (630) 424-5124
COMPANY: COMMONWEALTH EDISON

FOUNDATION (DEPTH)	FT (m)	CABLE SLACK	FT (m)	VERTICAL	FT.	(m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5	(1.0)
TYPE C - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20+L-2=	(6+L-0.6)=
30", TYPE E	15 (4.6)	SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13	(4.0)
36", TYPE E	15 (4.6)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4	(1.2)
		FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5	(4.1)
		ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5	(4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6	(1.8)



CABLE PLAN

SCHEDULE OF QUANTITIES

SIGN PANEL - TYPE 1		SQ FT	52.5
CONDUIT IN TRENCH, 2" DIA., GALVANIZED	STEEL	FOOT	358
CONDUIT IN TRENCH, 2 1/2" DIA.,	GALVANIZED STEEL	FOOT	22
CONDUIT IN TRENCH, 3" DIA., GALVANIZED	STEEL	FOOT	124
CONDUIT IN TRENCH, 5" DIA., GALVANIZED	STEEL	FOOT	10
CONDUIT PUSHED, 2" DIA., GALVANIZED	STEEL	FOOT	319
CONDUIT PUSHED, 3" DIA., GALVANIZED	STEEL	FOOT	157
CONDUIT PUSHED, 4" DIA., GALVANIZED	STEEL	FOOT	407
HANDHOLE		EACH	9
HEAVY-DUTY HANDHOLE		EACH	1
DOUBLE HANDHOLE		EACH	2
TRENCH AND BACKFILL FOR ELECTRICAL WORK		FOOT	514
TRANSCEIVER - FIBER OPTIC		EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL	NO. 14 2C	FOOT	616
ELECTRIC CABLE IN CONDUIT, SIGNAL	NO. 14 3C	FOOT	1,953
ELECTRIC CABLE IN CONDUIT, SIGNAL	NO. 14 5C	FOOT	1,420
ELECTRIC CABLE IN CONDUIT, SIGNAL	NO. 14 7C	FOOT	1,826
ELECTRIC CABLE IN CONDUIT, LEAD-IN,	NO. 14 1 PAIR	FOOT	2,638
ELECTRIC CABLE IN CONDUIT, SERVICE,	NO. 6 2 C	FOOT	180
TRAFFIC SIGNAL POST, GALVANIZED STEEL	16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.		EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.		EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 55 FT.		EACH	1
CONCRETE FOUNDATION, TYPE A		FOOT	4
CONCRETE FOUNDATION, TYPE C		FOOT	4
CONCRETE FOUNDATION, TYPE E	36-INCH DIAMETER	FOOT	56
SIGNAL HEAD, LED, 1-FACE, 3-SECTION,	MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION,	BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION,	MAST-ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 2-FACE, 5-SECTION,	BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE,	BRACKET MOUNTED	EACH	4
TRAFFIC SIGNAL BACKPLATE		EACH	11
INDUCTIVE LOOP DETECTOR		EACH	12
DETECTOR LOOP, TYPE I		FOOT	2,809
PEDESTRIAN PUSH-BUTTON		EACH	4
TEMPORARY TRAFFIC SIGNAL INSTALLATION		EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT		EACH	2
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT		EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT		FOOT	300
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT		EACH	1
REMOVE EXISTING HANDHOLE		EACH	13
REMOVE EXISTING CONCRETE FOUNDATION		EACH	8
SERVICE INSTALLATION - POLE MOUNTED		EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING,	NO. 6 1C	FOOT	1,059
ELECTRIC CABLE IN CONDUIT NO. 20 3/C,	TWISTED, SHIELDED	FOOT	650
ELECTRIC CABLE IN CONDUIT, RAILROAD,	NO. 14 3C	FOOT	1,116
UNINTERRUPTABLE POWER SUPPLY		EACH	1
RAILROAD PROTECTIVE LIABILITY INSURANCE		L SUM	1
RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE V CABINET (SPECIAL)		EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING		EACH	1

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

PALATINE ROAD AND PLUM GROVE ROAD
CABLE PLAN AND SCHEDULE OF QUANTITIES

SCALE: NTS
DRAWN BY DMB
DATE OCTOBER 19, 2009
CHECKED BY RY

PLOT DATE = #DATE#
FILE NAME = #d02640#
PLOT SCALE = #SCALE#
USER NAME = #USER#

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CONTRACT NO. 63083	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1285	02-00075-00-PV	COOK	161	81
	STA. ----------	TO STA. ----------			
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

PROPOSED SEQUENCE OF OPERATION

MOVEMENT		1 + 5				1 + 6			2 + 5			2 + 6				3 + 7				3 + 8				4 + 7				4 + 8				F
PHASE																																L
INTERVAL		1	2	3	4	5	6	7	8	9	10	11	12	13A	13B	14	15	16	17	18	19	20A	20B	21	22	23	24A	24B	25	26	27	28A	28B	A
CHANGE TO			1+6	2+5	2+6	◊	◊	2+6	◊	◊	2+6			3+7 3+8 4+7 4+8		1+5 1+6 2+5 2+6 4+8		3+8	4+7	◊	◊	1+5 1+6 2+5 2+6	4+8		◊	◊	1+5 1+6 2+5 2+6	4+8			1+5 1+6 2+5 2+6		S
PALATINE ROAD END MAST ARM AND FAR LEFT SIGNALS	E/B	R →G	R →Y	R →G	R →Y	R	R	R	G →G	G →G	G →Y	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	H
PALATINE ROAD MIDDLE MAST ARM	E/B	R	R	R	R	R	R	R	G	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	A
PALATINE ROAD NEAR RIGHT & FAR RIGHT MAST ARM SIGNALS	E/B	R	R	R	R	R	R	R	G	G	G	G	G	Y	R	R G→	R Y→	R G→	R Y→	R G→	R G→	R Y→	R	R Y→	R	R	R	R	R	R	R	R	R	R
PALATINE ROAD END MAST ARM AND FAR LEFT SIGNALS	W/B	R →G	R →G	R →Y	R →Y	G →G	G →G	G →Y	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PALATINE ROAD MIDDLE & FAR RIGHT MAST ARM SIGNALS	W/B	R	R	R	R	G	G	G	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PLUM GROVE ROAD END MAST ARM AND FAR LEFT SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R →G	R →Y	R →Y	R →G	R	R	R	R	R	G →G	G →G	Y	R	G →Y	G	G	Y	R	R
PLUM GROVE ROAD MIDDLE MAST ARM	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	G	G	G	Y	R	R
PLUM GROVE ROAD END MAST ARM AND FAR LEFT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R →G	R →Y	R →G	R →Y	G →G	G →G	Y	R	G →Y	R	R	R	R	R	G	G	Y	R	R
PLUM GROVE ROAD MIDDLE & FAR RIGHT MAST ARM SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	G	R	R	R	R	R	G	G	Y	R	R
PEDESTRIAN SIGNALS CROSSING PLUM GROVE RD. ON NORTHSIDE OF PALATINE RD.		H	H	H	H	•P	••FH	H	H	H	H	•P	••FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	D
PEDESTRIAN SIGNALS CROSSING PLUM GROVE RD. ON SOUTHSIDE OF PALATINE RD.		H	H	H	H	H	H	H	•P	••FH	H	•P	••FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	A
PEDESTRIAN SIGNALS CROSSING PALATINE RD. ON EASTSIDE OF PLUM GROVE RD.		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	•P	••FH	H	H	H	H	H	H	H	•P	••FH	H	H	R
PEDESTRIAN SIGNALS CROSSING PALATINE RD. ON WESTSIDE OF PLUM GROVE RD.		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	•P	••FH	H	H	•P	••FH	H	H	K

- • TO APPEAR ONLY UPON PUSHBUTTON ACTUATION
- •• FLASHING "DON'T WALK" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.
- ◊ THIS "WALK" OR FLASHING "DON'T WALK" INTERVAL MAY FINISH TIMING IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE "WALK" OR FLASHING "DON'T WALK" INTERVALS.

P = ILLUMINATED PERSON = WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

PHASES 2+6 SHALL BE PLACED ON RECALL

PROPOSED RAILROAD PREEMPTION SEQUENCE OF OPERATION

														PREEMPTOR NUMBER 3		PREEMPTOR NUMBER 4		PREEMPTOR NUMBER 2						
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1	5		8		11		14	18		22	26												
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER														2		3								
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	2	3	4	5	6	7	CLEAR TO NORMAL SEQUENCE
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	1C	2	1E	2	1G	2	2	1K	2	2	1N	2	1Q	2	1S	2	3	4	5	6	7		
PALATINE ROAD END MAST ARM AND FAR LEFT SIGNALS	E/B	R →Y	R	R	Y	R	Y	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	△
PALATINE ROAD MIDDLE MAST ARM	E/B	R	R	R	Y	R	Y	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	△
PALATINE ROAD NEAR RIGHT & FAR RIGHT MAST ARM SIGNALS	E/B	R	R	R	Y	R	Y	R	R Y→	R Y→	R	R	R	R	Y	R	R	R	R	R	R	R	R	R G→	△
PALATINE ROAD END MAST ARM AND FAR LEFT SIGNALS	W/B	R →Y	Y	R	R	R	Y	R	R	R	R	R	R	R	Y	R	R	R	R	R	G →G	Y	R		△
PALATINE ROAD MIDDLE & FAR RIGHT MAST ARM SIGNALS	W/B	R	Y	R	R	R	Y	R	R	R	R	R	R	R	Y	R	R	R	R	R	G	Y	R		△
PLUM GROVE ROAD END MAST ARM AND FAR LEFT SIGNALS	S/B	R	R	R	R	R	R	R	R →G	R	R	G →G	G	G	R	R	G	G	R	G →G	Y	R	R	R	△
PLUM GROVE ROAD MIDDLE MAST ARM	S/B	R	R	R	R	R	R	R	R	R	R	G	G	G	R	R	G	G	G	Y	R	R	R	R	△
PLUM GROVE ROAD END MAST ARM AND FAR LEFT SIGNALS	N/B	R	R	R	R	R	R	R →Y	Y	R	R	Y	R	R	R	R	Y	R	R	R	R	R	R	R	△
PLUM GROVE ROAD MIDDLE & FAR RIGHT MAST ARM SIGNALS	N/B	R	R	R	R	R	R	R	Y	R	R	Y	R	R	R	R	Y	R	R	R	R	R	R	R	△
PEDESTRIAN SIGNALS CROSSING PLUM GROVE RD. ON NORTHSIDE OF PALATINE RD.		H	FH	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING PLUM GROVE RD. ON SOUTHSIDE OF PALATINE RD.		H	H	H	FH	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING PALATINE RD. ON EASTSIDE OF PLUM GROVE RD.		H	H	H	H	H	H	H	H	FH	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING PALATINE RD. ON WESTSIDE OF PLUM GROVE RD.		H	H	H	H	H	H	H	H	H	H	FH	FH	H	H	H	H	H	H	H	H	H	H	H	△
																							HOLD		

△ RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 7 IS TERMINATED.

TRAFFIC SIGNAL CONTROLLER SHALL BE ALLOWED TO CYCLE TO NORTHBOUND AND SOUTHBOUND PLUM GROVE ROAD AT THE END OF THE RAILROAD PREEMPTION SEQUENCE.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PALATINE ROAD AT PLUM GROVE ROAD

SEQUENCE OF OPERATION AND RAILROAD PREEMPTION SEQUENCE OF OPERATION

SCALE: NONE DRAWN BY DMB

DATE OCTOBER 19, 2009 CHECKED BY RY

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PLOT SCALE = #SCALE#
USER NAME = #USER#

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CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	82
STA. ----------	TO STA. ----------			
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1	5		5			8		8			11	11			14	18			18		22			22		26			26	PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	CLEAR TO NORMAL SEQUENCE
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	1Y	1Z	1AA	1BB	1CC	1DD	1EE	1FF	2	3	
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2 OR 3	1C	2	1E	1F	3	1H	2	1K	1L	3	2	1P	1Q	3	2 OR 3	1T	1U	2	1W	3	1Y	1Z	2	1BB	3	1DD	1EE	2	3			
PALATINE ROAD E/B END MAST ARM AND FAR LEFT SIGNALS	R →Y	R	R	R	R	R	G →G	G →Y	G →G	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◊
PALATINE ROAD E/B MIDDLE MAST ARM	R	R	R	R	R	R	G	G	G	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◊
PALATINE ROAD E/B NEAR RIGHT & FAR RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	G	G	G	Y	R	G	G	Y	R	R →Y	R G→	R →Y	R	R G→	R →Y	R	R	R	R	R	R	R	R	R	G	R	◊
PALATINE ROAD W/B END MAST ARM AND FAR LEFT SIGNALS	R →Y	G →G	G →Y	G →G	Y	R	R	R	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◊
PALATINE ROAD W/B MIDDLE & FAR RIGHT MAST ARM SIGNALS	R	G	G	G	Y	R	R	R	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◊
PLUM GROVE ROAD S/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R →Y	R	R	R	R	R	G →G	Y	R	G →G	G →Y	G	Y	R	G	R	G	◊
PLUM GROVE ROAD S/B MIDDLE MAST ARM	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	G	G	Y	R	G	R	G	◊
PLUM GROVE ROAD N/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R →Y	G →G	Y	R	G →G	G →Y	R	R	R	R	R	G	Y	R	G	R	G	◊
PLUM GROVE ROAD N/B MIDDLE & FAR RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	G	R	R	R	R	R	G	Y	R	G	R	G	◊
PEDESTRIAN SIGNALS CROSSING PLUM GROVE RD. ON NORTHSIDE OF PALATINE RD.	H	FH	H	FH	H	H	H	H	H	H	H	FH	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◊
PEDESTRIAN SIGNALS CROSSING PLUM GROVE RD. ON SOUTHSIDE OF PALATINE RD.	H	H	H	H	H	H	FH	H	FH	H	H	FH	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◊
PEDESTRIAN SIGNALS CROSSING PALATINE RD. ON EASTSIDE OF PLUM GROVE RD.	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	FH	H	H	H	H	H	H	FH	H	H	FH	H	H	◊
PEDESTRIAN SIGNALS CROSSING PALATINE RD. ON WESTSIDE OF PLUM GROVE RD.	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	FH	H	FH	H	H	FH	H	H	◊

◊ EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2 OR 3 IS TERMINATED.

P = ILLUMINATED PERSON = WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

PLOT DATE = $DATE$
FILE NAME = $$224GD$
PLOT SCALE = $SCALE$
USER NAME = $USER$

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PALATINE ROAD AT PLUM GROVE ROAD

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

SCALE: NONE — DRAWN BY DMB

DATE OCTOBER 19, 2009 — CHECKED BY RY

TD-4

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NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12" (300mm). HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCIDENTAL TO THE COST OF THE "TEMPORARY TRAFFIC SIGNAL INSTALLATION".
8. ALL TEMPORARY TRAFFIC SIGNAL SECTIONS NOT IN USE DURING A STAGE OF CONSTRUCTION SHALL BE BAGGED AND DEACTIVATED. ALL PERMANENT TRAFFIC SIGNAL SECTIONS SHALL BE BAGGED OR REMOVED WHILE THE TEMPORARY TRAFFIC SIGNAL IS IN OPERATION.
9. THE CONTRACTOR MUST PROVIDE ASSURANCE THAT THE RADIO DEVICE WILL OPERATE PROPERLY AT ALL TIMES AND DURING ALL CONSTRUCTION STAGES. IF WIRELESS INTERCONNECT FAILS DURING TESTING OR OPERATIONS, CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING NECESSARY POLES, FIBER OPTIC CABLE AND OTHER INFRASTRUCTURE FOR PROVIDING TEMPORARY FIBER INTERCONNECT AT NO COST TO THE CONTRACT.

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE OF THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1	EACH	CONTROLLER AND CABINET, COMPLETE
4	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
4	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
6	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
1	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
8	EACH	PEDESTRIAN PUSH-BUTTON
4	EACH	TRAFFIC SIGNAL BACKPLATE
4	EACH	MAST ARM ASSEMBLY AND POLE
3	EACH	SIGNAL POST
1	EACH	SERVICE INSTALLATION

TEMPORARY TRAFFIC SIGNAL LEGEND

- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION
- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION
- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED TERTIARY LOCATION
- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED FINAL LOCATION
- TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT MIN.
- TEMPORARY PEDESTRIAN PUSHBUTTON DETECTOR
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- CT COMMON TRENCH
- UD UNIT DUCT
- G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)
- HANDHOLE
- HEAVY DUTY HANDHOLE

TEMPORARY TRAFFIC SIGNAL LEGEND (CONTINUED)

- DOWN GUY
- RADIO INTERCONNECT ANTENNA
- VIDEO DETECTION CAMERA
- TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER WIRE AND CABLE
- TEMPORARY SERVICE INSTALLATION
- TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- UPS UNINTERRUPTIBLE POWER SUPPLY

CONSTRUCTION NOTES:

(1) THE CONTRACTOR SHALL INSTALL ELECTRIC CABLE IN CONDUIT NO. 14 3/C RAILROAD INTERCONNECT TO BE USED FOR THE TEMPORARY TRAFFIC SIGNAL. THE CABLE, 3" CONDUIT, AND HANDHOLES, WILL BE PAID FOR SEPERATELY AS PER THE SPECIFICATIONS.

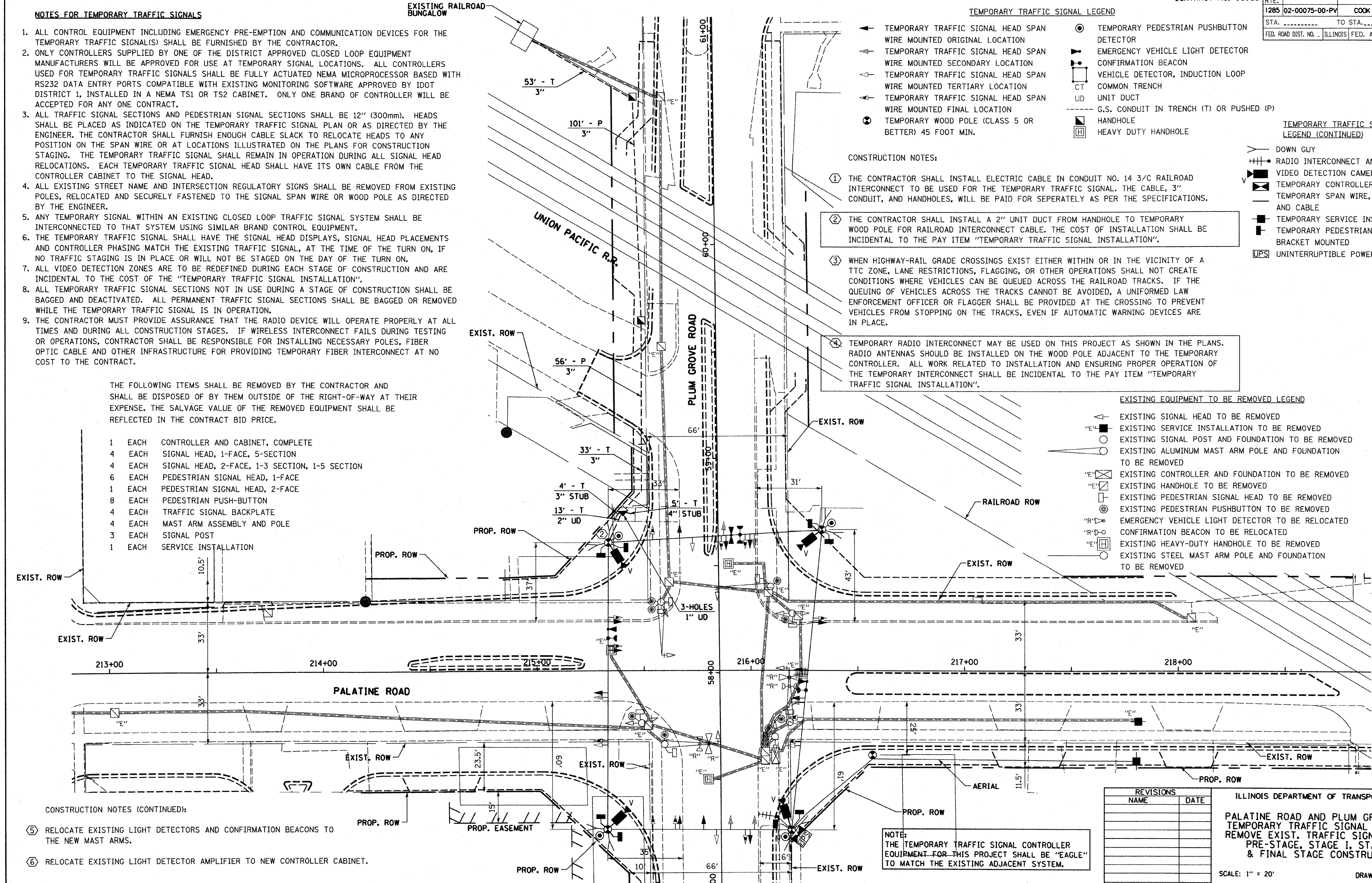
(2) THE CONTRACTOR SHALL INSTALL A 2" UNIT DUCT FROM HANDHOLE TO TEMPORARY WOOD POLE FOR RAILROAD INTERCONNECT CABLE. THE COST OF INSTALLATION SHALL BE INCIDENTAL TO THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".

(3) WHEN HIGHWAY-RAIL GRADE CROSSINGS EXIST EITHER WITHIN OR IN THE VICINITY OF A TTC ZONE, LANE RESTRICTIONS, FLAGGING, OR OTHER OPERATIONS SHALL NOT CREATE CONDITIONS WHERE VEHICLES CAN BE QUEUED ACROSS THE RAILROAD TRACKS. IF THE QUEUING OF VEHICLES ACROSS THE TRACKS CANNOT BE AVOIDED, A UNIFORMED LAW ENFORCEMENT OFFICER OR FLAGGER SHALL BE PROVIDED AT THE CROSSING TO PREVENT VEHICLES FROM STOPPING ON THE TRACKS, EVEN IF AUTOMATIC WARNING DEVICES ARE IN PLACE.

(4) TEMPORARY RADIO INTERCONNECT MAY BE USED ON THIS PROJECT AS SHOWN IN THE PLANS. RADIO ANTENNAS SHOULD BE INSTALLED ON THE WOOD POLE ADJACENT TO THE TEMPORARY CONTROLLER. ALL WORK RELATED TO INSTALLATION AND ENSURING PROPER OPERATION OF THE TEMPORARY INTERCONNECT SHALL BE INCIDENTAL TO THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".

EXISTING EQUIPMENT TO BE REMOVED LEGEND

- EXISTING SIGNAL HEAD TO BE REMOVED
- "E" EXISTING SERVICE INSTALLATION TO BE REMOVED
- EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED
- EXISTING ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED
- "E" EXISTING CONTROLLER AND FOUNDATION TO BE REMOVED
- "E" EXISTING HANDHOLE TO BE REMOVED
- EXISTING PEDESTRIAN SIGNAL HEAD TO BE REMOVED
- EXISTING PEDESTRIAN PUSHBUTTON TO BE REMOVED
- "R" EMERGENCY VEHICLE LIGHT DETECTOR TO BE RELOCATED
- "R" CONFIRMATION BEACON TO BE RELOCATED
- "E" EXISTING HEAVY-DUTY HANDHOLE TO BE REMOVED
- EXISTING STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED



CONSTRUCTION NOTES (CONTINUED):

(5) RELOCATE EXISTING LIGHT DETECTORS AND CONFIRMATION BEACONS TO THE NEW MAST ARMS.

(6) RELOCATE EXISTING LIGHT DETECTOR AMPLIFIER TO NEW CONTROLLER CABINET.

NOTE: THE TEMPORARY TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PALATINE ROAD AND PLUM GROVE ROAD TEMPORARY TRAFFIC SIGNAL PLAN AND REMOVE EXIST. TRAFFIC SIGNAL EQUIP. PRE-STAGE, STAGE I, STAGE II & FINAL STAGE CONSTRUCTION

SCALE: 1" = 20' DRAWN BY DMB

DATE OCTOBER 19, 2009 CHECKED BY RY

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CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	84
STA. ----------	TO STA. ----------			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONSTRUCTION NOTES

1. TEMPORARY RADIO INTERCONNECT MAY BE USED ON THIS PROJECT AS SHOWN IN THE PLANS. RADIO ANTENNAS SHOULD BE INSTALLED ON THE WOOD POLE ADJACENT TO THE TEMPORARY CONTROLLER. ALL WORK RELATED TO INSTALLATION AND ENSURING PROPER OPERATION OF THE TEMPORARY INTERCONNECT SHALL BE INCIDENTAL TO THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".
2. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL THROUGHOUT ALL STAGES OF CONSTRUCTION.
3. ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCIDENTAL TO THE COST OF THE "TEMPORARY TRAFFIC SIGNAL INSTALLATION".
4. ALL TEMPORARY TRAFFIC SIGNAL SECTIONS NOT IN USE DURING A STAGE OF CONSTRUCTION SHALL BE BAGGED AND DEACTIVATED. ALL PERMANENT TRAFFIC SIGNAL SECTIONS SHALL BE BAGGED OR REMOVED WHILE THE TEMPORARY TRAFFIC SIGNAL IS IN OPERATION.
5. THE CONTRACTOR MUST PROVIDE ASSURANCE THAT THE RADIO DEVICE WILL OPERATE PROPERLY AT ALL TIMES AND DURING ALL CONSTRUCTION STAGES. IF WIRELESS INTERCONNECT FAILS DURING TESTING OR OPERATIONS, CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING NECESSARY POLES, FIBER OPTIC CABLE AND OTHER INFRASTRUCTURE FOR PROVIDING TEMPORARY FIBER INTERCONNECT AT NO COST TO THE CONTRACT.

CONSTRUCTION NOTES (CONTINUED)

THE CONTRACTOR SHALL REMOVE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM CONSISTING OF:

2 EACH CONFIRMATION BEACON
2 EACH LIGHT DETECTOR
1 EACH LIGHT DETECTOR AMPLIFIER

AND SHALL DELIVER IT TO THE VILLAGE OF PALATINE FIRE DEPARTMENT AT THE ADDRESS BELOW FOR STORAGE. AFTER THE NEW TRAFFIC SIGNAL EQUIPMENT IS IN PLACE, THE CONTRACTOR SHALL BE REQUIRED TO PICK UP ALL DELIVERED EQUIPMENT AND INSTALL THE PHASING UNIT IN THE CONTROLLER CABINET AND THE DETECTOR UNIT ON THE PROPOSED MAST ARM AS INDICATED ON THE PLANS.

PALATINE FIRE DEPARTMENT
39 EAST COLFAX
PALATINE, IL 60067

PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE x INCAND.	WATTAGE LED	x % OPERATION	
SIGNAL (RED)	12	135	17	0.50	102
(YELLOW)	12	135	25	0.25	75
(GREEN)	12	135	15	0.25	45
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
FLASHER			25	0.50	
ENERGY COST TO:				TOTAL =	541.2

ILLINOIS DEPARTMENT OF TRANSPORTATION

201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: ELLI SARALLO
PHONE: (630) 424-5124
COMPANY: COMMONWEALTH EDISON

PLOT DATE = $DATE$
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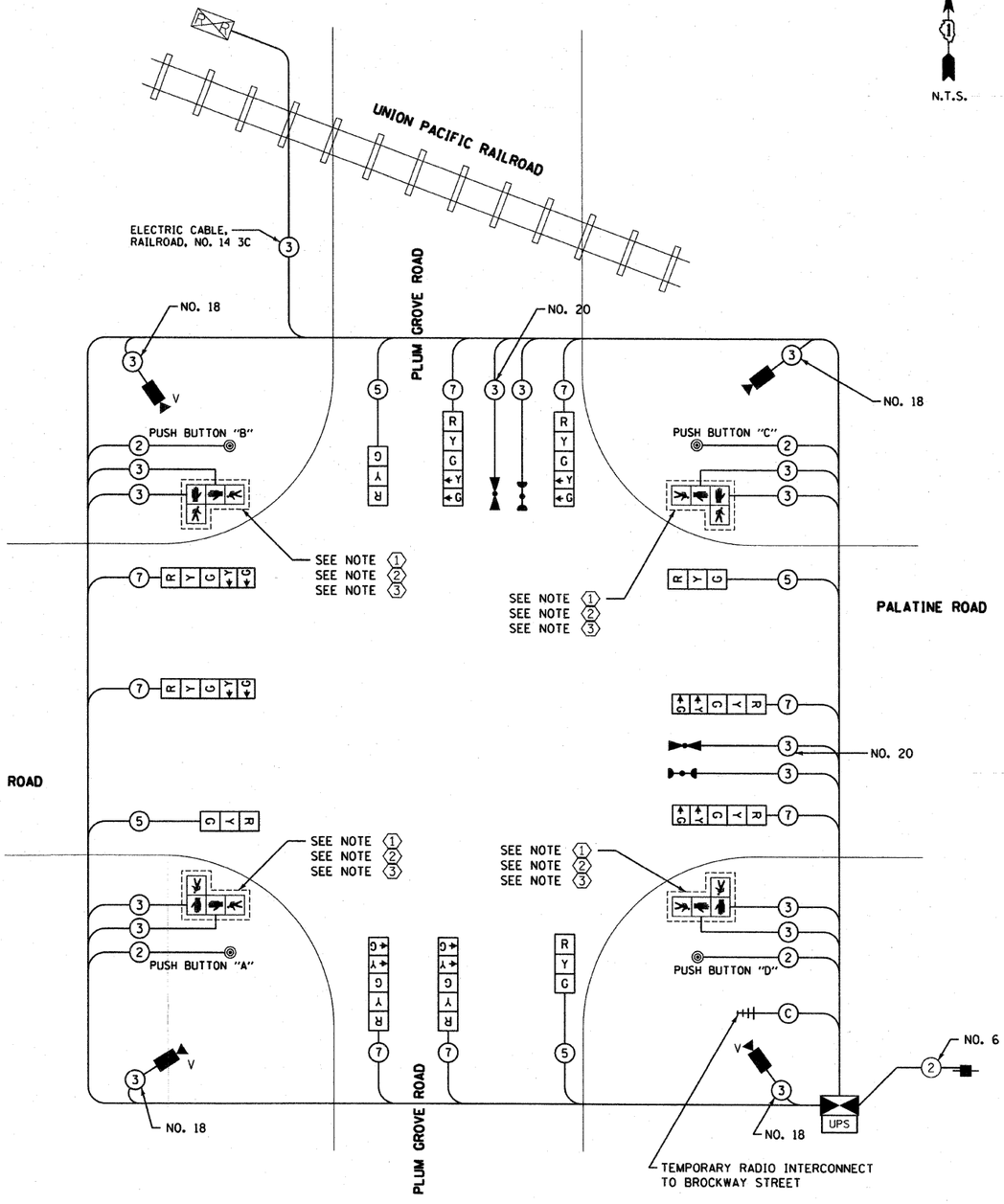

TEMPORARY CABLE PLAN

NOTE:
THE TEMPORARY TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

TEMPORARY CABLE PLAN LEGEND

EXISTING	PROPOSED	
		SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD
"E"		RAILROAD CONTROL CABINET
"E"		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
"E"		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
H/C	C	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C).
P	P	GROUND ROD AT POST (P), OR MAST ARM POLE (MA).
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
1	1	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
24	24	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 24F
	C	DENOTED COAXIAL CABLE
	1	NO. 14 1/C TRACER CABLE
C	G	8" (200mm) TRAFFIC SIGNAL SECTION
R	R	12" (300mm) TRAFFIC SIGNAL SECTION
W	W	12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
2	2	DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		VIDEO DETECTION CAMERA
		RADIO INTERCONNECT ANTENNA
	UPS	UNINTERRUPTIBLE POWER SUPPLY

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PALATINE ROAD AND PLUM GROVE ROAD
TEMPORARY CABLE PLAN
PRE-STAGE, STAGE I, STAGE II
& FINAL STAGE CONSTRUCTION

SCALE: NTS DRAWN BY DMB
DATE OCTOBER 19, 2009 CHECKED BY RY

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TEMPORARY SEQUENCE OF OPERATION PRE-STAGE, STAGE I, STAGE II & FINAL STAGE

MOVEMENT (N)	5, 1				6, 1			5, 2			2, 6				7, 3				3, 8					4, 7					4, 8				F
PHASE	1 + 5				1 + 6			2 + 5			2 + 6				3 + 7				3 + 8					4 + 7					4 + 8				L
INTERVAL	1	2	3	4	5	6	7	8	9	10	11	12	13A	13B	14	15	16	17	18	19	20A	20B	21	22	23	24A	24B	25	26	27	28A	28B	A
CHANGE TO		1+6	2+5	2+6	Θ	Θ	2+6	Θ	Θ	2+6			3+7 3+8 4+7 4+8			1+5 1+6 2+5 2+6 4+8	3+8	4+7	Θ	Θ	1+5 1+6 2+5 2+6		4+8	Θ	Θ	1+5 1+6 2+5 2+6		4+8			1+5 1+6 2+5 2+6		S H
PALATINE ROAD E/B FAR LEFT AND RIGHT SPAN WIRE SIGNALS	R ←G	R ←Y	R ←G	R ←Y	R	R	R	G ←G	G ←G	G ←Y	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PALATINE ROAD E/B NEAR RIGHT SPAN WIRE SIGNAL	R	R	R	R	R	R	R	G	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PALATINE ROAD W/B FAR LEFT AND RIGHT SPAN WIRE SIGNALS	R ←G	R ←G	R ←Y	R ←Y	G ←G	G ←G	G ←Y	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PALATINE ROAD W/B NEAR RIGHT SPAN WIRE SIGNAL	R	R	R	R	G	G	G	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PLUM GROVE ROAD S/B FAR LEFT AND RIGHT SPAN WIRE SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R ←G	R ←Y	R ←Y	R ←G	R	R	R	R	R	G ←G	G ←G	Y	R	G ←Y	G	G	Y	R	R
PLUM GROVE ROAD S/B NEAR RIGHT SPAN WIRE SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	G	G	G	Y	R	R
PLUM GROVE ROAD N/B FAR LEFT AND RIGHT SPAN WIRE SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R ←G	R ←Y	R ←G	R ←Y	G ←G	G ←G	Y	R	G ←Y	R	R	R	R	R	G	G	Y	R	R
PLUM GROVE ROAD N/B NEAR RIGHT SPAN WIRE SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	G	R	R	R	R	R	G	G	Y	R	R
PEDESTRIAN SIGNALS CROSSING PLUM GROVE RD. ON NORTHSIDE OF PALATINE RD.	H	H	H	H	*P	**FH	H	H	H	H	*P	**FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	D
PEDESTRIAN SIGNALS CROSSING PLUM GROVE RD. ON SOUTHSIDE OF PALATINE RD.	H	H	H	H	H	H	H	*P	**FH	H	*P	**FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	A
PEDESTRIAN SIGNALS CROSSING PALATINE RD. ON EASTSIDE OF PLUM GROVE RD.	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	*P	**FH	H	H	H	H	H	H	H	H	*P	**FH	H	H	R
PEDESTRIAN SIGNALS CROSSING PALATINE RD. ON WESTSIDE OF PLUM GROVE RD.	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	*P	**FH	H	H	H	*P	**FH	H	H	K

* TO APPEAR ONLY UPON PUSHBUTTON ACTUATION

** FLASHING "DON'T WALK" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

Θ THIS "WALK" OR FLASHING "DON'T WALK" INTERVAL MAY FINISH TIMING IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE "WALK" OR FLASHING "DON'T WALK" INTERVALS.

P = ILLUMINATED PERSON = WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

DURING PRE-STAGE AND FINAL STAGE CONSTRUCTION ALL PHASES SHALL BE USED

DURING STAGE I CONSTRUCTION ONLY PHASES 2+6 AND 4+8 SHALL BE USED

DURING STAGE II CONSTRUCTION ONLY PHASES 2 AND 3 SHALL BE USED

TEMPORARY RAILROAD PREEMPTION SEQUENCE OF OPERATION PRE-STAGE, STAGE I, STAGE II & FINAL STAGE

														PREEMPTOR NUMBER 3		PREEMPTOR NUMBER 4		PREEMPTOR NUMBER 2				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1	5		8		11		14	18		22	26										
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER														2		3						
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	2	3	4	5	CLEAR TO NORMAL SEQUENCE
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	1C	2	1E	2	1G	2	2	1K	2	2	1N	2	1Q	2	1S	2	3	4	5		
PALATINE ROAD E/B FAR LEFT AND RIGHT SPAN WIRE SIGNALS	R ←Y	R	R	Y	R	Y	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	△
PALATINE ROAD E/B NEAR RIGHT SPAN WIRE SIGNAL	R	R	R	Y	R	Y	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	△
PALATINE ROAD W/B FAR LEFT AND RIGHT SPAN WIRE SIGNALS	R ←Y	Y	R	R	R	Y	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	G ←G	△
PALATINE ROAD W/B NEAR RIGHT SPAN WIRE SIGNAL	R	Y	R	R	R	Y	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	G	△
PLUM GROVE ROAD S/B FAR LEFT AND RIGHT SPAN WIRE SIGNALS	R	R	R	R	R	R	R	R ←G	R	R	G ←G	G	G	R	R	G	G	G ←G	Y	R	R	△
PLUM GROVE ROAD S/B NEAR RIGHT SPAN WIRE SIGNAL	R	R	R	R	R	R	R	R	R	R	G	G	G	R	R	G	G	G	Y	R	R	△
PLUM GROVE ROAD N/B FAR LEFT AND RIGHT SPAN WIRE SIGNALS	R	R	R	R	R	R	R	R ←Y	Y	R	R	Y	R	R	R	Y	R	R	R	R	R	△
PLUM GROVE ROAD N/B NEAR RIGHT SPAN WIRE SIGNAL	R	R	R	R	R	R	R	R	Y	R	R	Y	R	R	R	Y	R	R	R	R	R	△
PEDESTRIAN SIGNAL CROSSING PLUM GROVE RD. ON NORTHSIDE OF PALATINE RD.	H	FH	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING PLUM GROVE RD. ON SOUTHSIDE OF PALATINE RD.	H	H	H	FH	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNAL CROSSING PALATINE RD. ON EASTSIDE OF PLUM GROVE RD.	H	H	H	H	H	H	H	H	FH	H	H	FH	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING PALATINE RD. ON WESTSIDE OF PLUM GROVE RD.	H	H	H	H	H	H	H	H	H	H	FH	FH	H	H	H	H	H	H	H	H	H	△
																					HOLD	

△ RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

PLOT DATE = $DATE$
FILE NAME = $Ø2Ø4ØD$
PLOT SCALE = $SCALE$
USER NAME = $USER$

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

SEQUENCE OF OPERATION AND RR PREEMPTION SEQUENCE OF OPERATION PRE-STAGE, STAGE I, STAGE II & FINAL STAGE CONSTRUCTION

SCALE: NONE DRAWN BY DMB

DATE OCTOBER 19, 2009 CHECKED BY RY

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION PRE-STAGE, STAGE I, STAGE II & FINAL STAGE

																															PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1	5		5			8		8			11	11			14	18			18		22			22		26			26			CLEAR TO NORMAL SEQUENCE
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	1Y	1Z	1AA	1BB	1CC	1DD	1EE	1FF	2	3	
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2 OR 3	1C	2	1E	1F	3	1H	2	1K	1L	3	2	1P	1Q	3	2 OR 3	1T	1U	2	1W	3	1Y	1Z	2	1BB	3	1DD	1EE	2	3			◇
PALATINE ROAD E/B FAR LEFT AND RIGHT SPAN WIRE SIGNALS	R ←Y	R	R	R	R	R	G ←G	G ←Y	G ←G	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◇
PALATINE ROAD E/B NEAR RIGHT SPAN WIRE SIGNAL	R	R	R	R	R	R	G	G	G	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◇
PALATINE ROAD W/B FAR LEFT AND RIGHT SPAN WIRE SIGNALS	R ←Y	G ←G	G ←Y	G ←G	Y	R	R	R	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◇
PALATINE ROAD W/B NEAR RIGHT SPAN WIRE SIGNAL	R	G	G	G	Y	R	R	R	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◇
PLUM GROVE ROAD S/B FAR LEFT AND RIGHT SPAN WIRE SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R ←Y	R	R	R	R	R	G ←G	Y	R	G ←G	G ←Y	G	Y	R	G	R	G	◇
PLUM GROVE ROAD S/B NEAR RIGHT SPAN WIRE SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	G	G	Y	R	G	R	G	◇
PLUM GROVE ROAD N/B FAR LEFT AND RIGHT SPAN WIRE SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R ←Y	G ←G	Y	R	G ←G	G ←Y	R	R	R	R	R	G	Y	R	G	R	G	◇
PLUM GROVE ROAD N/B NEAR RIGHT SPAN WIRE SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	G	R	R	R	R	R	G	Y	R	G	R	G	◇
PEDESTRIAN SIGNALS CROSSING PLUM GROVE RD. ON NORTHSIDE OF PALATINE RD.	H	FH	H	FH	H	H	H	H	H	H	H	FH	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◇
PEDESTRIAN SIGNALS CROSSING PLUM GROVE RD. ON SOUTHSIDE OF PALATINE RD.	H	H	H	H	H	H	FH	H	FH	H	H	FH	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◇
PEDESTRIAN SIGNALS CROSSING PALATINE RD. ON EASTSIDE OF PLUM GROVE RD.	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	FH	H	H	H	H	H	H	FH	H	H	FH	H	H	◇
PEDESTRIAN SIGNALS CROSSING PALATINE RD. ON WESTSIDE OF PLUM GROVE RD.	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	FH	H	FH	H	H	FH	H	H	◇

◇ EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2 OR 3 IS TERMINATED.

P = ILLUMINATED PERSON = WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

PLOT DATE = $DATE$
FILE NAME = $0204 0D$
PLOT SCALE = $SCALE$
USER NAME = $USER$

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION PRE-STAGE, STAGE I, STAGE II & FINAL STAGE CONSTRUCTION

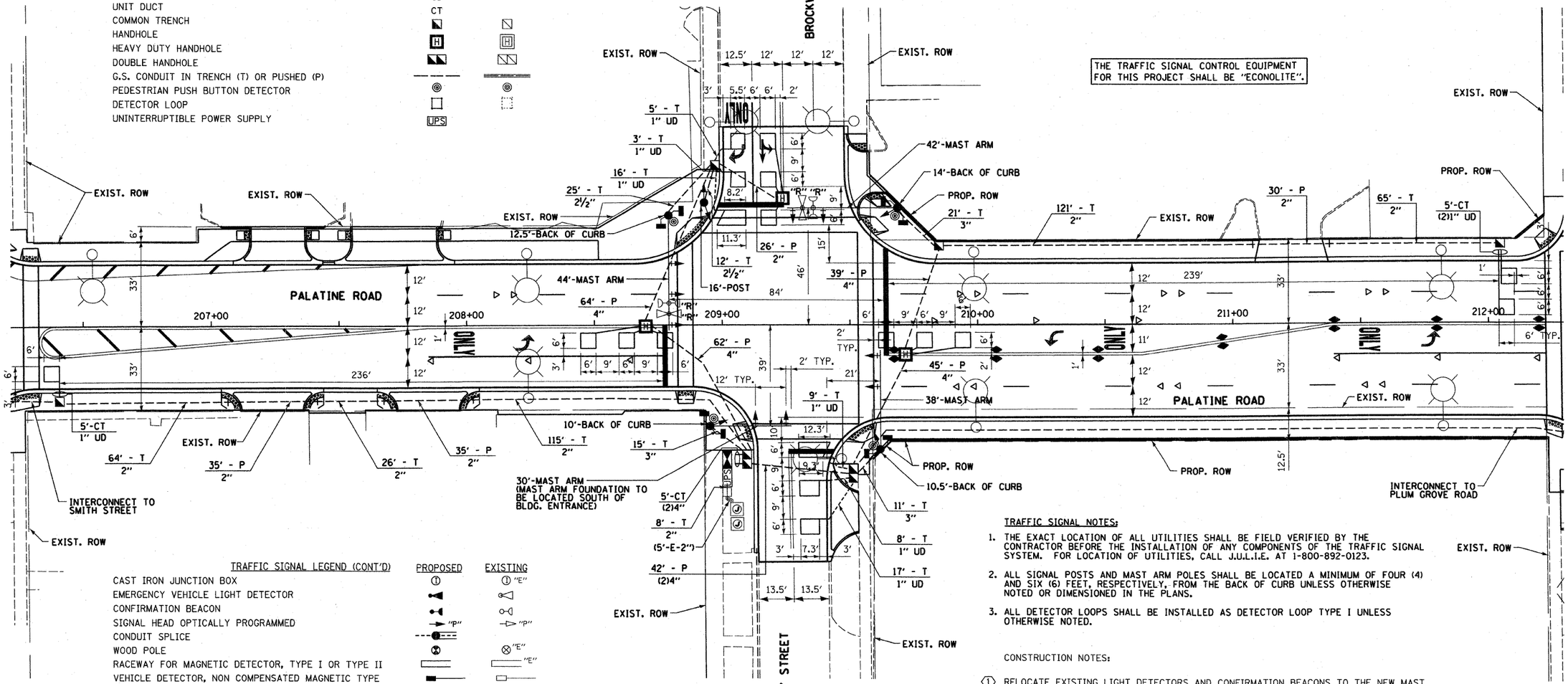
SCALE: NONE
DRAWN BY DMB
DATE OCTOBER 19, 2009
CHECKED BY RY

CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	87
STA. ----------	TO STA. ----------			
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE		
UNIT DUCT	UD	
COMMON TRENCH	CT	
HANDHOLE		
HEAVY DUTY HANDHOLE	H	H
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)		
PEDESTRIAN PUSH BUTTON DETECTOR		
DETECTOR LOOP		
UNINTERRUPTIBLE POWER SUPPLY	UPS	



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

TRAFFIC SIGNAL LEGEND (CONT'D)

	PROPOSED	EXISTING
CAST IRON JUNCTION BOX	①	① "E"
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED	"P"	"P"
CONDUIT SPLICE		
WOOD POLE		"E"
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		"E"
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		"E"
TELEPHONE CONNECTION	T	T
ELECTRIC UTILITY ENCLOSURE		
ILLUMINATED SIGN "NO LEFT TURN"		"E"
ILLUMINATED SIGN "NO RIGHT TURN"		"E"

TRAFFIC SIGNAL NOTES:

1. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE TRAFFIC SIGNAL SYSTEM. FOR LOCATION OF UTILITIES, CALL J.U.L.I.E. AT 1-800-892-0123.
2. ALL SIGNAL POSTS AND MAST ARM POLES SHALL BE LOCATED A MINIMUM OF FOUR (4) AND SIX (6) FEET, RESPECTIVELY, FROM THE BACK OF CURB UNLESS OTHERWISE NOTED OR DIMENSIONED IN THE PLANS.
3. ALL DETECTOR LOOPS SHALL BE INSTALLED AS DETECTOR LOOP TYPE I UNLESS OTHERWISE NOTED.

CONSTRUCTION NOTES:

① RELOCATE EXISTING LIGHT DETECTORS AND CONFIRMATION BEACONS TO THE NEW MAST ARMS.

② RELOCATE EXISTING LIGHT DETECTOR AMPLIFIER TO NEW CONTROLLER CABINET.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

PALATINE ROAD AND BROCKWAY STREET
TRAFFIC SIGNAL PLAN

SCALE: 1" = 20'
DRAWN BY DMB
DATE OCTOBER 19, 2009
CHECKED BY RY

PLOT DATE = #DATE#
FILE NAME = #82844@#
PLOT SCALE = #SCALE#
USER NAME = #USER#

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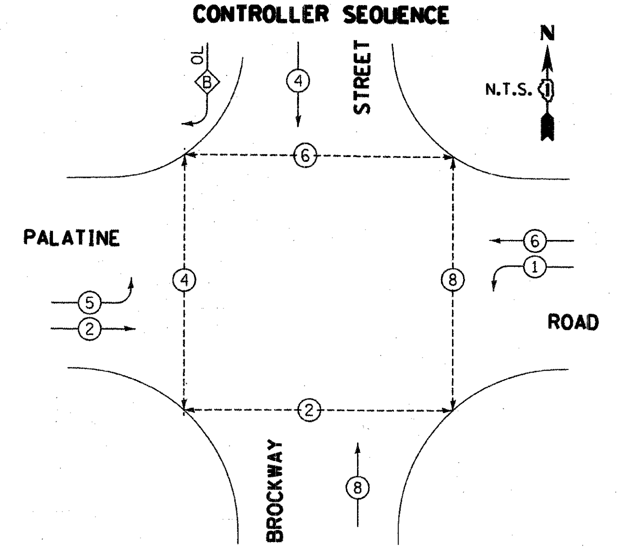
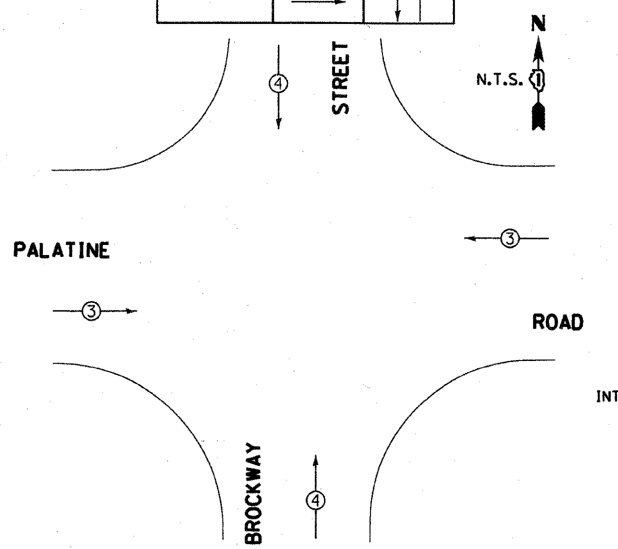
CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	⇄	↓↑

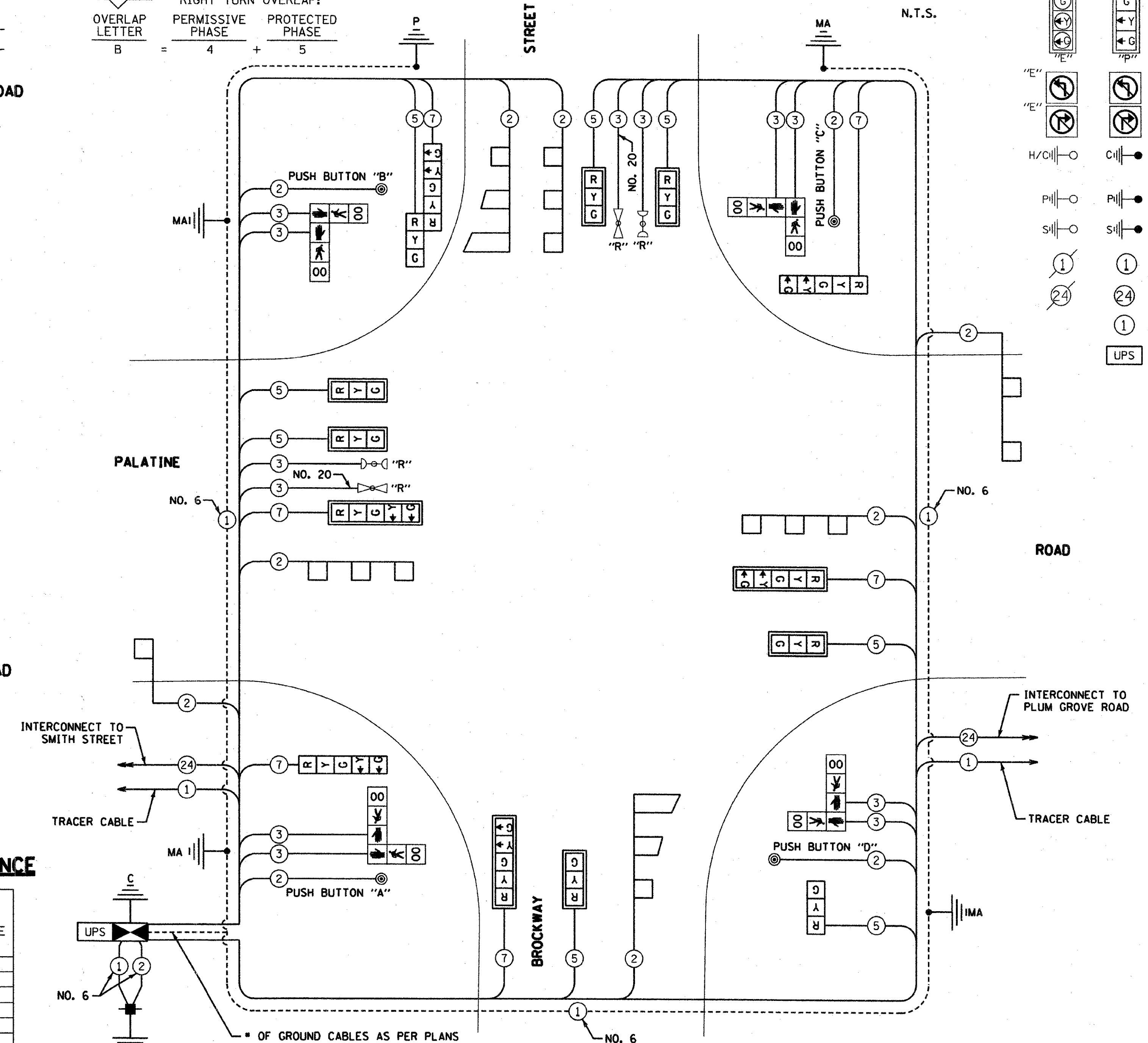


EMERGENCY VEHICLE PREEMPTION SEQUENCE

PHASE DIAGRAM LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- OL RIGHT TURN OVERLAP:

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
B	=	4	+	5



THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

CABLE PLAN

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS x	WATTAGE INCAND.	LED x	% OPERATION	
SIGNAL (RED)	14	135	17	0.50	119
(YELLOW)	14	135	25	0.25	87.5
(GREEN)	14	135	15	0.25	52.5
ARROW	12	135	12	0.10	14.4
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		252		0.05	
FLASHER			25	0.50	
ENERGY COST TO:				TOTAL =	573.4

ILLINOIS DEPARTMENT OF TRANSPORTATION

201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: ELLI SARALLO
PHONE: (630) 424-5124
COMPANY: COMMONWEALTH EDISON

FOUNDATION (DEPTH)	FT (m)	CABLE SLACK	FT (m)	VERTICAL	FT.	(m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5	(1.0)
TYPE C - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20+L-2=	(6+L-0.6)=
30", TYPE E	15 (4.6)	SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13	(4.0)
36", TYPE E	15 (4.6)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4	(1.2)
		FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5	(4.1)
		ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5	(4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6	(1.8)

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

PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	88

STA. ________ TO STA. ________
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

CABLE PLAN LEGEND

EXISTING / PROPOSED

- SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD ("E" / "P")
- ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN" ("E")
- ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN" ("E")
- H/C — GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C).
- P — GROUND ROD AT POST (P), OR MAST ARM POLE (MA).
- S — GROUND ROD AT ELECTRIC SERVICE INSTALLATION
- 1 — GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
- 24 — FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F
- 1 — NO. 14 1/C TRACER CABLE
- UPS — UNINTERRUPTIBLE POWER SUPPLY
- G — 8" (200mm) TRAFFIC SIGNAL SECTION
- R — 12" (300mm) TRAFFIC SIGNAL SECTION
- W — 12" (300mm) PEDESTRIAN SIGNAL SECTION
- 00 — 12" (300mm) PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER
- CONTROLLER CABINET
- SERVICE INSTALLATION
- T — TELEPHONE CONNECTION
- MAGNETIC DETECTOR
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- PUSHBUTTON DETECTOR
- VEHICLE DETECTOR, INDUCTION LOOP
- PD — DENOTES PREFORMED DETECTOR LOOP
- 2 — DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.

SCHEDULE OF QUANTITIES

SIGN PANEL - TYPE 1	SQ FT	34.5
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	399
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	37
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	47
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	10
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	126
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	294
HANDHOLE	EACH	4
HEAVY-DUTY HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	2
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	495
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	538
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,659
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,554
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	945
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,348
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	22
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	48
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE	EACH	9
INDUCTIVE LOOP DETECTOR	EACH	7
DETECTOR LOOP, TYPE I	FOOT	1,481
PEDESTRIAN PUSH-BUTTON	EACH	4
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	15
REMOVE EXISTING CONCRETE FOUNDATION	EACH	11
SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	938
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	511
UNINTERRUPTABLE POWER SUPPLY	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

PALATINE ROAD AND BROCKWAY STREET CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES

SCALE: NTS — DRAWN BY DMB
DATE OCTOBER 19, 2009 — CHECKED BY RY

PLOT DATE = $DATE$
FILE NAME = $0204OD$
PLOT SCALE = $SCALE$
USER NAME = $USER$
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CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	89
STA. ----------	TO STA.----------			
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12" (300mm). HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

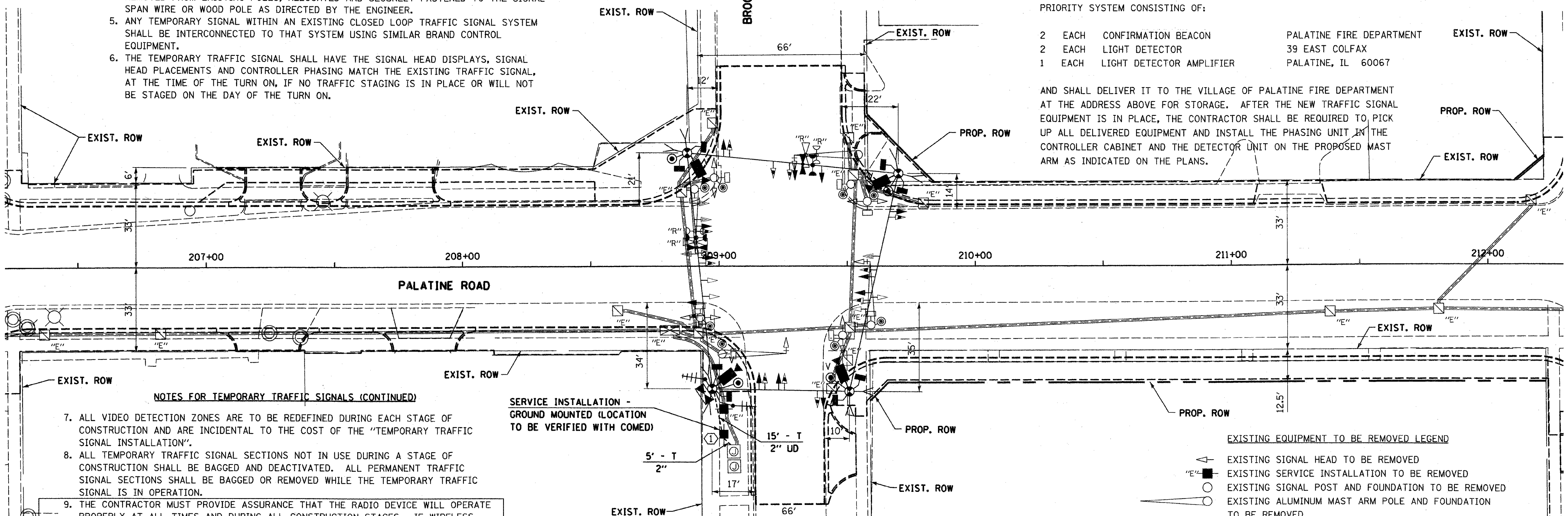
TEMPORARY TRAFFIC SIGNAL LEGEND

- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION
- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION
- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED TERTIARY LOCATION
- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED FINAL LOCATION
- TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT MIN.
- TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER WIRE AND CABLE
- TEMPORARY SERVICE INSTALLATION
- TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- TEMPORARY PEDESTRIAN PUSHBUTTON DETECTOR
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- CT COMMON TRENCH
- UD UNIT DUCT
- G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)
- HANDHOLE
- HEAVY DUTY HANDHOLE
- DOWN GUY
- RADIO INTERCONNECT ANTENNA
- V VIDEO DETECTION CAMERA

THE CONTRACTOR SHALL REMOVE THE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM CONSISTING OF:

2	EACH	CONFIRMATION BEACON	PALATINE FIRE DEPARTMENT
2	EACH	LIGHT DETECTOR	39 EAST COLFAX
1	EACH	LIGHT DETECTOR AMPLIFIER	PALATINE, IL 60067

AND SHALL DELIVER IT TO THE VILLAGE OF PALATINE FIRE DEPARTMENT AT THE ADDRESS ABOVE FOR STORAGE. AFTER THE NEW TRAFFIC SIGNAL EQUIPMENT IS IN PLACE, THE CONTRACTOR SHALL BE REQUIRED TO PICK UP ALL DELIVERED EQUIPMENT AND INSTALL THE PHASING UNIT IN THE CONTROLLER CABINET AND THE DETECTOR UNIT ON THE PROPOSED MAST ARM AS INDICATED ON THE PLANS.



NOTES FOR TEMPORARY TRAFFIC SIGNALS (CONTINUED)

7. ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCIDENTAL TO THE COST OF THE "TEMPORARY TRAFFIC SIGNAL INSTALLATION".
8. ALL TEMPORARY TRAFFIC SIGNAL SECTIONS NOT IN USE DURING A STAGE OF CONSTRUCTION SHALL BE BAGGED AND DEACTIVATED. ALL PERMANENT TRAFFIC SIGNAL SECTIONS SHALL BE BAGGED OR REMOVED WHILE THE TEMPORARY TRAFFIC SIGNAL IS IN OPERATION.
9. THE CONTRACTOR MUST PROVIDE ASSURANCE THAT THE RADIO DEVICE WILL OPERATE PROPERLY AT ALL TIMES AND DURING ALL CONSTRUCTION STAGES. IF WIRELESS INTERCONNECT FAILS DURING TESTING OR OPERATIONS, CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING NECESSARY POLES, FIBER OPTIC CABLE AND OTHER INFRASTRUCTURE FOR PROVIDING TEMPORARY FIBER INTERCONNECT AT NO COST TO THE CONTRACT.

CONSTRUCTION NOTES:

⟨1⟩ THE CONTRACTOR SHALL INSTALL A 2" UNIT DUCT FROM THE GROUND MOUNTED SERVICE INSTALLATION TO THE TEMPORARY WOOD POLE FOR TEMPORARY TRAFFIC CONTROLLER SERVICE CABLE. THE COST OF INSTALLATION SHALL BE INCIDENTAL TO THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".

⟨2⟩ TEMPORARY RADIO INTERCONNECT MAY BE USED ON THIS PROJECT AS SHOWN IN THE PLANS. RADIO ANTENNAS SHOULD BE INSTALLED ON THE WOOD POLE ADJACENT TO THE TEMPORARY CONTROLLER. ALL WORK RELATED TO INSTALLATION AND ENSURING PROPER OPERATION OF THE TEMPORARY INTERCONNECT SHALL BE INCIDENTAL TO THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".

⟨3⟩ RELOCATE EXISTING LIGHT DETECTORS AND CONFIRMATION BEACONS TO THE NEW MAST ARMS.

⟨4⟩ RELOCATE EXISTING LIGHT DETECTOR AMPLIFIER TO NEW CONTROLLER CABINET.

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE OF THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1	EACH	CONTROLLER AND CABINET, COMPLETE
2	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
2	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
2	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
2	EACH	SIGNAL HEAD, 2-FACE, 2-3 SECTION
8	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
8	EACH	PEDESTRIAN PUSH-BUTTON
4	EACH	TRAFFIC SIGNAL BACKPLATE
4	EACH	MAST ARM ASSEMBLY AND POLE
5	EACH	SIGNAL POST
1	EACH	SERVICE INSTALLATION

NOTE:
THE TEMPORARY TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

EXISTING EQUIPMENT TO BE REMOVED LEGEND

- EXISTING SIGNAL HEAD TO BE REMOVED
- "E" EXISTING SERVICE INSTALLATION TO BE REMOVED
- EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED
- EXISTING ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED
- "E" EXISTING CONTROLLER AND FOUNDATION TO BE REMOVED
- "E" EXISTING HANDHOLE TO BE REMOVED
- EXISTING PEDESTRIAN SIGNAL HEAD TO BE REMOVED
- EXISTING PEDESTRIAN PUSHBUTTON TO BE REMOVED
- "R" EMERGENCY VEHICLE LIGHT DETECTOR TO BE RELOCATED
- "R" CONFIRMATION BEACON TO BE RELOCATED
- "E" EXISTING HEAVY-DUTY HANDHOLE TO BE REMOVED
- EXISTING STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

PALATINE ROAD AND BROCKWAY STREET
TEMPORARY TRAFFIC SIGNAL PLAN

SCALE: 1" = 20'   DRAWN BY DMB
DATE OCTOBER 19, 2009   CHECKED BY RY

PLOT DATE = $DATE$
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PLOT SCALE = $SCALE$
USER NAME = $USER$

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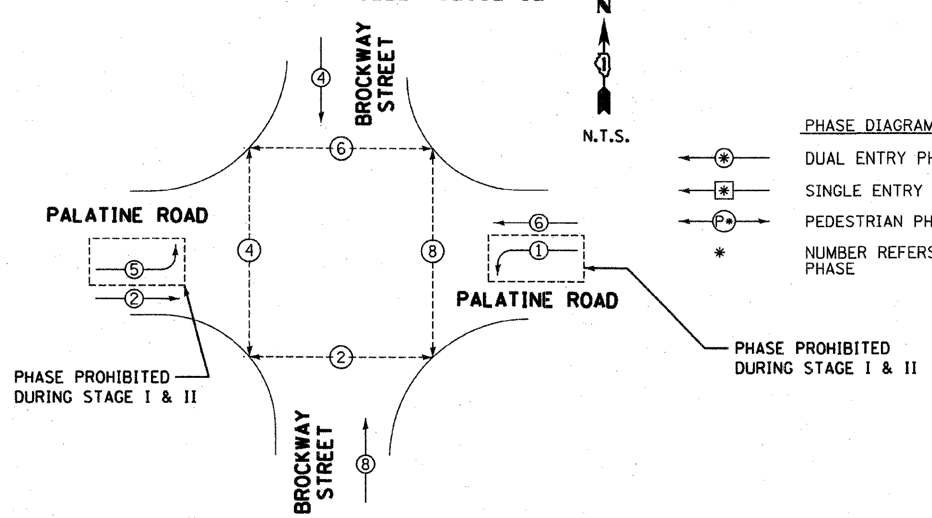
CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	90
STA. ----------	TO STA.----------			
FED. ROAD DIST. NO. .	ILLINOIS	FED. AID PROJECT		

TEMPORARY CONTROLLER SEQUENCE



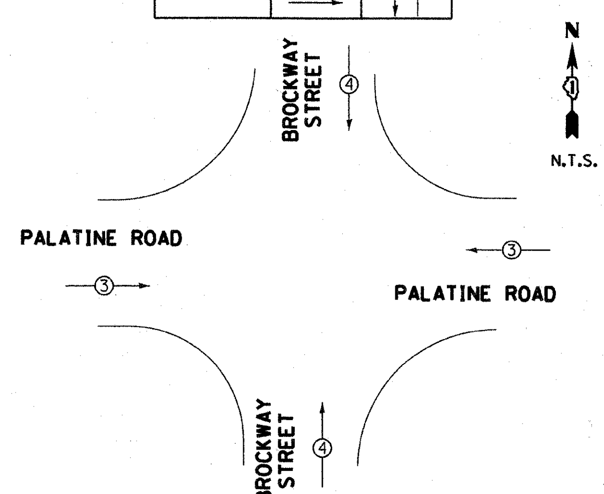
PHASE DIAGRAM LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE

TEMPORARY PHASE DESIGNATION DIAGRAM

PRE-STAGE, STAGE I, STAGE II & FINAL STAGE

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	⇄	⇅



TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE

PRE-STAGE, STAGE I, STAGE II & FINAL STAGE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS x	WATTAGE INCAND.	WATTAGE LED x	% OPERATION	
SIGNAL (RED)	12	135	17	0.50	102
(YELLOW)	12	135	25	0.25	75
(GREEN)	12	135	15	0.25	45
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
VIDEO DETECTION	1		150	100	150
FLASHER			25	0.50	
ENERGY COST TO:				TOTAL =	681.6

ILLINOIS DEPARTMENT OF TRANSPORTATION

201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: ELLI SARALLO
PHONE: (630) 424-5124
COMPANY: COMMONWEALTH EDISON

CONSTRUCTION NOTES

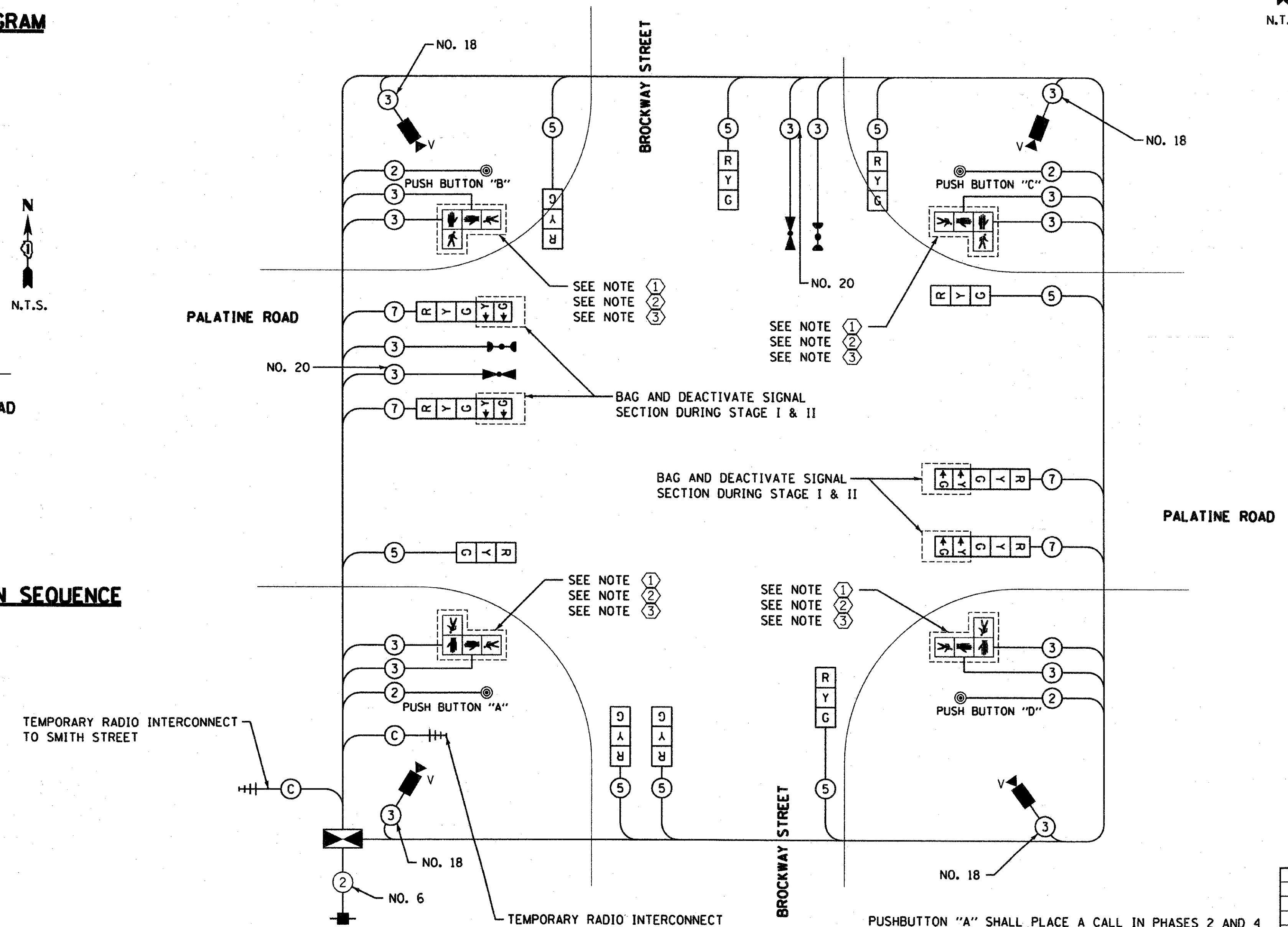
1. TEMPORARY RADIO INTERCONNECT MAY BE USED ON THIS PROJECT AS SHOWN IN THE PLANS. RADIO ANTENNAS SHOULD BE INSTALLED ON THE WOOD POLE ADJACENT TO THE TEMPORARY CONTROLLER. ALL WORK RELATED TO INSTALLATION AND ENSURING PROPER OPERATION OF THE TEMPORARY INTERCONNECT SHALL BE INCIDENTAL TO THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".
2. ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCIDENTAL TO THE COST OF THE "TEMPORARY TRAFFIC SIGNAL INSTALLATION".
3. ALL TEMPORARY TRAFFIC SIGNAL SECTIONS NOT IN USE DURING A STAGE OF CONSTRUCTION SHALL BE BAGGED AND DEACTIVATED. ALL PERMANENT TRAFFIC SIGNAL SECTIONS SHALL BE BAGGED OR REMOVED WHILE THE TEMPORARY TRAFFIC SIGNAL IS IN OPERATION.
4. THE CONTRACTOR MUST PROVIDE ASSURANCE THAT THE RADIO DEVICE WILL OPERATE PROPERLY AT ALL TIMES AND DURING ALL CONSTRUCTION STAGES. IF WIRELESS INTERCONNECT FAILS DURING TESTING OR OPERATIONS, CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING NECESSARY POLES, FIBER OPTIC CABLE AND OTHER INFRASTRUCTURE FOR PROVIDING TEMPORARY FIBER INTERCONNECT AT NO COST TO THE CONTRACT.

CONSTRUCTION NOTES (CONTINUED)

(1) ALL PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED AND DISCONNECTED WHEN EXISTING PAVEMENT IS REMOVED.

(2) ALL PEDESTRIAN SIGNAL HEADS SHALL REMAIN BAGGED UNTIL THE PAVEMENT IS RESTORED TO PROVIDE A SAFE CROSSING AREA.

(3) PEDESTRIAN SIGNAL HEADS AT THIS LOCATION SHALL BE DETERMINED BY THE RESIDENT ENGINEER ON LOCATION.



PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

NOTE:
THE TEMPORARY TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

TEMPORARY CABLE PLAN

TEMPORARY CABLE PLAN LEGEND

EXISTING / PROPOSED

- SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD
- RAILROAD CONTROL CABINET
- ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
- ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
- GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C).
- GROUND ROD AT POST (P), OR MAST ARM POLE (MA).
- GROUND ROD AT ELECTRIC SERVICE INSTALLATION
- GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
- FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 24F
- DENOTED COAXIAL CABLE
- NO. 14 1/C TRACER CABLE
- 8" (200mm) TRAFFIC SIGNAL SECTION
- 12" (300mm) TRAFFIC SIGNAL SECTION
- 12" (300mm) PEDESTRIAN SIGNAL SECTION
- 12" (300mm) PEDESTRIAN SIGNAL SECTION
- CONTROLLER CABINET
- SERVICE INSTALLATION
- TELEPHONE CONNECTION
- MAGNETIC DETECTOR
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- PUSHBUTTON DETECTOR
- VEHICLE DETECTOR, INDUCTION LOOP
- DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
- VIDEO DETECTION CAMERA
- RADIO INTERCONNECT ANTENNA

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

PALATINE ROAD AND BROCKWAY STREET
TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE

SCALE: NTS — DRAWN BY DMB
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CONTRACT NO. 63083

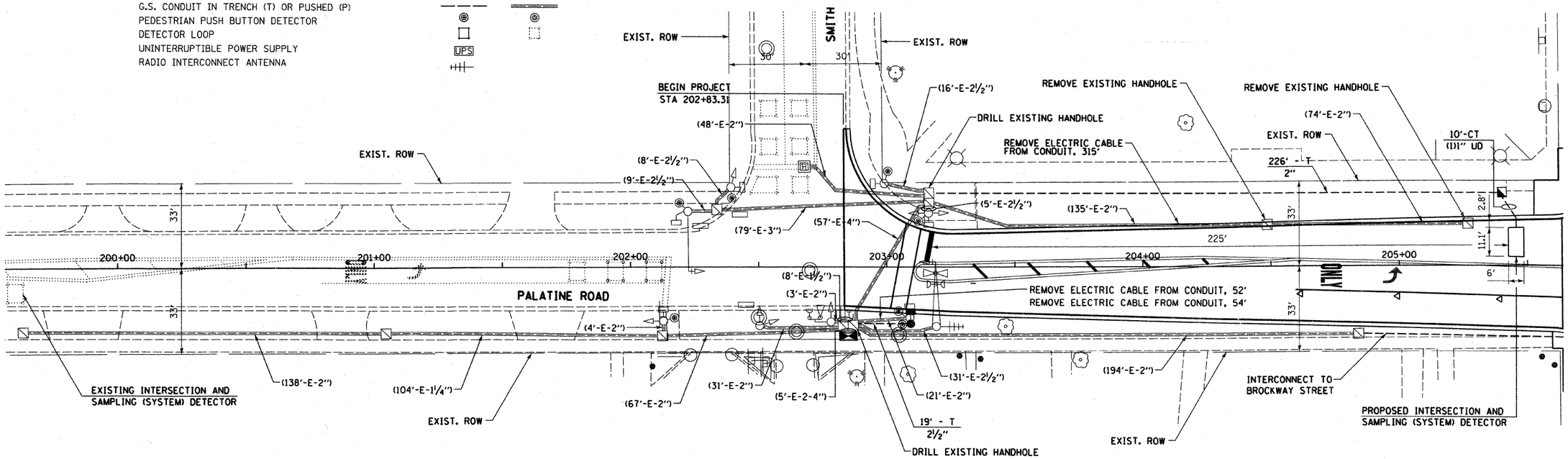
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	91
STA. ----------	TO STA. ----------			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE		
UNIT DUCT	UD	
COMMON TRENCH	CT	
HANDHOLE	H	H
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)		
PEDESTRIAN PUSH BUTTON DETECTOR		
DETECTOR LOOP		
UNINTERRUPTIBLE POWER SUPPLY	UPS	
RADIO INTERCONNECT ANTENNA		

TRAFFIC SIGNAL NOTES:

1. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE TRAFFIC SIGNAL SYSTEM. FOR LOCATION OF UTILITIES, CALL J.U.L.I.E. AT 1-800-892-0123.
2. ALL SIGNAL POSTS AND MAST ARM POLES SHALL BE LOCATED A MINIMUM OF FOUR (4) AND SIX (6) FEET, RESPECTIVELY, FROM THE BACK OF CURB UNLESS OTHERWISE NOTED OR DIMENSIONED IN THE PLANS.
3. ALL DETECTOR LOOPS SHALL BE INSTALLED AS DETECTOR LOOP TYPE I UNLESS OTHERWISE NOTED.



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

TRAFFIC SIGNAL LEGEND (CONT'D)

	PROPOSED	EXISTING
CAST IRON JUNCTION BOX	①	① "E"
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED	→ "P"	→ "P"
CONDUIT SPLICE		
WOOD POLE	②	⊗ "E"
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		"E"
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		"E"
TELEPHONE CONNECTION	T	T
ILLUMINATED SIGN "NO LEFT TURN"		"E"
ILLUMINATED SIGN "NO RIGHT TURN"		"E"

CONSTRUCTION NOTES:

1. TEMPORARY RADIO INTERCONNECT MAY BE USED ON THIS PROJECT AS SHOWN IN THE PLANS. THE RADIO ANTENNA SHOULD BE INSTALLED ON THE SOUTHEAST MAST ARM AT THE INTERSECTION OF SMITH STREET AND PALATINE ROAD. ALL WORK RELATED TO INSTALLATION AND ENSURING PROPER OPERATION OF THE TEMPORARY INTERCONNECT SHALL BE INCIDENTAL TO THE PAY ITEM "MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION".
2. THE CONTRACTOR MUST PROVIDE ASSURANCE THAT THE RADIO DEVICE WILL OPERATE PROPERLY AT ALL TIMES AND DURING ALL CONSTRUCTION STAGES. IF WIRELESS INTERCONNECT FAILS DURING TESTING OR OPERATIONS, CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING NECESSARY POLES, FIBER OPTIC CABLE AND OTHER INFRASTRUCTURE FOR PROVIDING TEMPORARY FIBER INTERCONNECT AT NO COST TO THE CONTRACT.

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE OF THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1 EACH CONTROLLER AND CABINET, COMPLETE

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

PALATINE ROAD AND SMITH STREET
TRAFFIC SIGNAL MODIFICATION PLAN

SCALE: 1" = 20' DRAWN BY DMB
DATE OCTOBER 19, 2009 CHECKED BY RY

PLOT DATE = @DATE@
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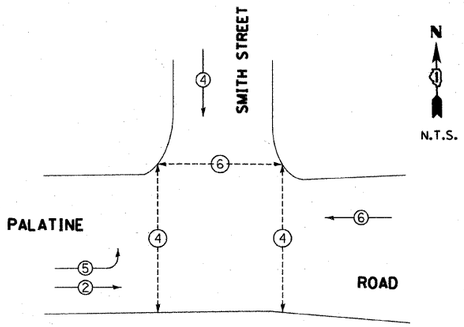
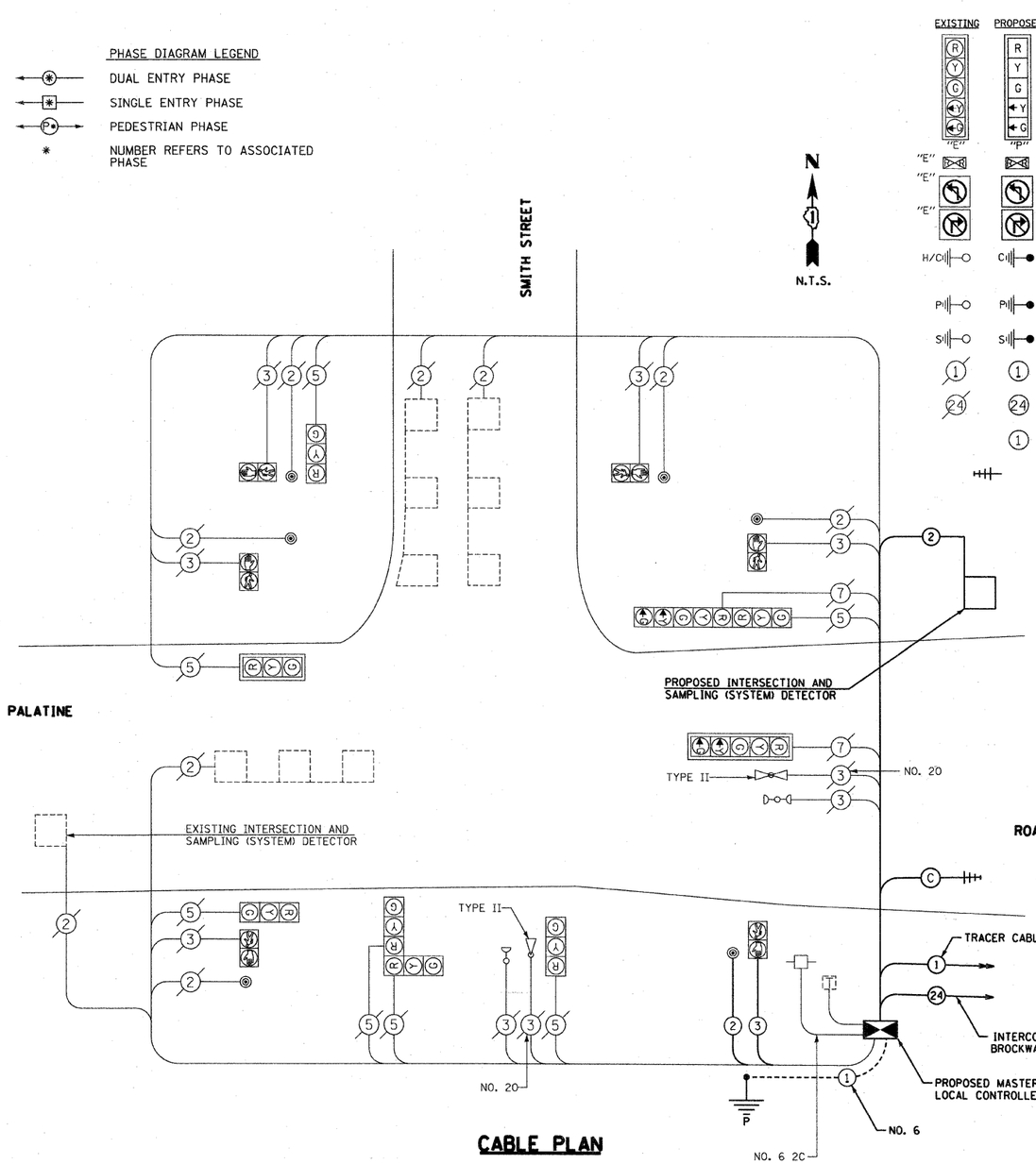
CONTRACT NO. 63083	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1285	02-00075-00-PV	COOK	161	92
	STA. ----------	TO STA. ----------			
	FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



CABLE PLAN

CABLE PLAN LEGEND

EXISTING	PROPOSED	
R Y G ←Y ←G "E"	R Y G ←Y ←G "P"	SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD
"E"		RAILROAD CONTROL CABINET
"E"		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
"E"		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
H/C	C	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C).
P	P	GROUND ROD AT POST (P), OR MAST ARM POLE (MA).
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
1	1	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
24	24	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F
	1	NO. 14 1/C TRACER CABLE
		RADIO INTERCONNECT ANTENNA

EXISTING	PROPOSED	
C	G	8" (200mm) TRAFFIC SIGNAL SECTION
R	R	12" (300mm) TRAFFIC SIGNAL SECTION
W	W	12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
	T	TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
	PD	DENOTES PREFORMED DETECTOR LOOP
2	2	DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
	C	DENOTED COAXIAL CABLE

CONSTRUCTION NOTES:

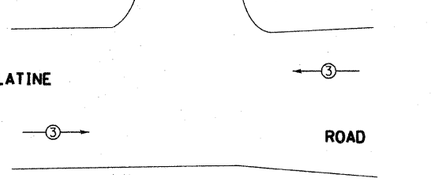
1. TEMPORARY RADIO INTERCONNECT MAY BE USED ON THIS PROJECT AS SHOWN IN THE PLANS. THE RADIO ANTENNA SHOULD BE INSTALLED ON THE SOUTHEAST MAST ARM AT THE INTERSECTION OF SMITH STREET AND PALATINE ROAD. ALL WORK RELATED TO INSTALLATION AND ENSURING PROPER OPERATION OF THE TEMPORARY INTERCONNECT SHALL BE INCIDENTAL TO THE PAY ITEM "MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION".

2. THE CONTRACTOR MUST PROVIDE ASSURANCE THAT THE RADIO DEVICE WILL OPERATE PROPERLY AT ALL TIMES AND DURING ALL CONSTRUCTION STAGES. IF WIRELESS INTERCONNECT FAILS DURING TESTING OR OPERATIONS, CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING NECESSARY POLES, FIBER OPTIC CABLE AND OTHER INFRASTRUCTURE FOR PROVIDING TEMPORARY FIBER INTERCONNECT AT NO COST TO THE CONTRACT.

SCHEDULE OF QUANTITIES

CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	226
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	19
HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	245
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	58
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	49
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	308
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	2
INDUCTIVE LOOP DETECTOR	EACH	5
DETECTOR LOOP, TYPE I	FOOT	96
RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	421
REMOVE EXISTING HANDHOLE	EACH	2
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	58
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓



EMERGENCY VEHICLE PREEMPTION SEQUENCE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE x INCAND.	WATTAGE LED	x % OPERATION	
SIGNAL (RED)	9	135	17	0.50	540
(YELLOW)	9	135	25	0.25	270
(GREEN)	9	135	15	0.25	270
ARROW	4	135	12	0.10	54
PED. SIGNAL	6	90	25	1.00	540
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		-	-	0.05	
FLASHER			25	0.50	
ENERGY COST TO:			TOTAL =		1774

FOUNDATION (DEPTH)	FT (m)	CABLE SLACK	FT (m)	VERTICAL	FT.	
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5	(1.0)
TYPE D-CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L=	(6m+L)=
30", TYPE E	15 (4.6)	SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13	(4.0)
36", TYPE E	15 (4.6)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4	(1.2)
		FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5	(4.1)
		ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5	(4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6	(1.8)

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

THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

ILLINOIS DEPARTMENT OF TRANSPORTATION

201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: ELLI SARALLO
PHONE: (630) 424-5124
COMPANY: COMMONWEALTH EDISON

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)
PALATINE ROAD AND SMITH STREET
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES

SCALE: NTS DRAWN BY DMB
DATE OCTOBER 19, 2009 CHECKED BY RY

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CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	93
STA. ----------	TO STA. ----------			
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED. THE ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 834001, 834006 AND 834011, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" X 6'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
2. ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND. TYPE A SHEETING.
3. THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 6'-0".
4. ALL BORDERS SHALL BE ¾" WIDE AND CORNER RADIUS SHALL BE 2-1/4".
5. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL PLOES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE;
   - A.K.T. CORPORATION, SCHAUMBURG, IL
   - TUCKER COMPANY, INC., WAUWATOSA, WI
   - AMERICAN FABRICATION CO., CHICAGO HEIGHTS, IL
   - WESTERN TRAFFIC CONTROL INC., CICERO, IL

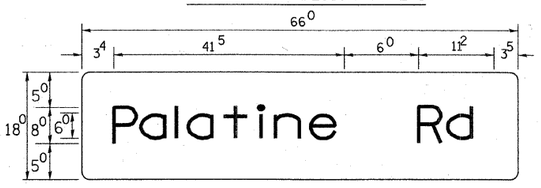
PARTS LISTING:

SIGN CHANNEL	PART #HPNO53 (MED. CHANNEL)
SIGN SCREWS	¼" X 14 X 1" H.W.H. #3 SELF TAPPING WITH NEOPREAM WASHER
BRACKETS	PART #HPNO34 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

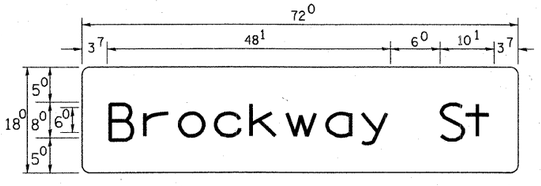
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE. BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE PRODUCT.

NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS.

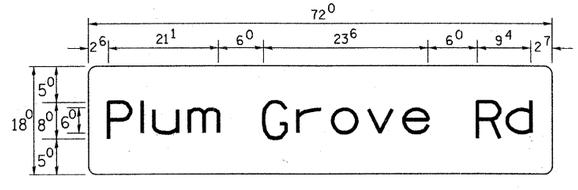
PANEL SIGN DESIGN TYPE 1



8.25 Sq. Ft. each
4 Required
Design Series D

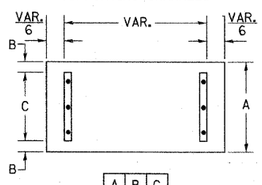


9.0 Sq. Ft. each
2 Required
Design Series D

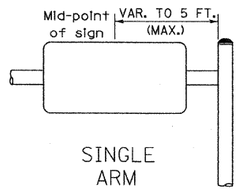


9.0 Sq. Ft. each
2 Required
Design Series C

SUPPORTING CHANNELS

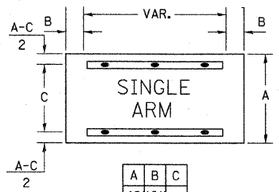


A	B	C
18"	2"	14"

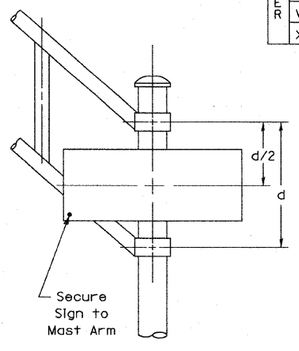


SINGLE ARM

SUPPORTING CHANNELS



A	B	C
18"	2"	12"
30"	2"	22"



DUAL ARM

SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM shall be used. See Note #5

Upper Case To Lower Case
Spacing Chart 8-6 Inch Series "C & D"

EXAMPLE, 2 (3) DENOTES 3/8"

FIRST LETTER	SECOND LETTER: a c d e g o q		b h i k l m n p r u		f w		j		s t		v y		x		z	
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
A W X	1 2	1 4	1 4	1 5	1 2	1 4	0 6	1 0	1 1	1 4	0 6	1 0	1 1	1 2	1 2	1 4
B	1 4	1 5	2 0	2 1	1 4	1 5	1 1	1 2	1 4	1 5	1 2	1 4	1 2	1 4	1 6	1 7
C E G	1 4	1 5	2 0	2 1	1 2	1 4	0 6	1 0	1 2	1 4	1 2	1 4	1 4	1 5	1 4	1 5
D O Q R	1 4	1 5	2 0	2 1	1 4	1 5	0 6	1 0	1 2	1 4	1 2	1 4	1 4	1 5	1 4	1 5
F	0 5	0 6	1 4	1 5	0 6	1 0	0 5	0 6	0 6	1 0	0 6	1 0	0 6	1 0	1 1	1 2
H I M N	2 0	2 1	2 2	2 4	2 0	2 1	1 4	1 5	1 6	1 7	1 6	1 7	2 0	2 1	2 0	2 1
J U	2 0	2 1	2 0	2 1	1 6	1 7	1 4	1 5	1 6	1 7	1 6	1 7	1 6	1 7	2 0	2 1
K L	1 1	1 2	1 6	1 7	1 1	1 2	0 5	0 6	1 1	1 2	1 1	1 2	1 1	1 2	1 2	1 4
P	1 2	1 4	1 4	1 5	1 2	1 4	0 5	0 6	1 1	1 2	1 1	1 2	1 2	1 4	1 2	1 4
S	1 2	1 4	1 6	1 7	1 2	1 4	0 6	1 0	1 2	1 4	1 2	1 4	1 2	1 4	1 2	1 4
T	1 1	1 2	1 6	1 7	0 6	1 0	0 6	1 0	1 1	1 2	1 1	1 2	1 1	1 2	1 2	1 4
V	0 6	1 0	1 4	1 5	1 1	1 2	0 6	1 0	1 2	1 4	1 2	1 4	1 2	1 4	1 2	1 4
Y	0 5	0 6	1 4	1 5	0 6	1 0	0 5	0 6	0 5	0 7	0 5	0 6	0 6	1 0	1 1	1 2
Z	1 6	1 7	2 2	2 4	1 6	1 7	1 2	1 4	1 6	1 7	1 6	1 7	1 6	1 7	2 0	2 1

Lower Case To Lower Case
Spacing Chart 6 Inch Series "C & D"

FIRST LETTER	SECOND LETTER: a c d e g o q		b h i k l m n p r u		f w		j		s t		v y		x		z	
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
adhgij lmnqu	1 6	1 7	2 2	2 4	1 6	1 7	1 2	1 4	1 4	1 5	1 4	1 5	1 6	1 7	1 6	1 7
bfkops	1 2	1 4	1 6	1 7	1 1	1 2	0 5	0 6	1 1	1 2	1 1	1 2	1 2	1 4	1 2	1 4
c e	1 2	1 4	1 6	1 7	1 2	1 4	0 6	1 0	1 2	1 4	1 2	1 4	1 2	1 4	1 2	1 4
r	0 6	1 0	1 2	1 4	0 6	1 0	0 3	0 3	0 5	0 6	0 5	0 6	0 6	1 0	0 6	1 0
t z	1 2	1 4	1 6	1 7	1 2	1 4	0 6	1 0	1 1	1 2	1 1	1 2	1 2	1 4	1 2	1 4
v y	1 1	1 2	1 4	1 5	1 1	1 2	0 5	0 6	0 6	1 0	0 6	1 0	1 1	1 2	1 1	1 2
w	1 1	1 2	1 4	1 5	1 1	1 2	0 5	0 6	1 1	1 2	1 1	1 2	1 1	1 2	1 2	1 4
x	1 2	1 4	1 6	1 7	1 1	1 2	0 5	0 6	1 1	1 2	1 1	1 2	1 1	1 2	1 2	1 4

Number To Number
Spacing Chart 8 Inch Series "C & D"

FIRST NUMBER	SECOND NUMBER: 0		1		2		3		4		5		6		7		8		9	
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
0 9	1 6	1 7	1 6	1 7	1 4	1 5	1 2	1 4	1 4	1 5	1 4	1 5	1 6	1 7	1 2	1 4	1 6	1 7	1 6	1 7
1	2 0	2 1	2 0	2 1	2 0	2 1	1 6	1 7	1 4	1 5	2 0	2 1	2 0	2 1	1 4	1 5	2 0	2 1	2 0	2 1
2 3 4	1 4	1 5	1 4	1 5	1 4	1 5	1 2	1 4	1 2	1 4	1 4	1 5	1 4	1 5	1 1	1 2	1 6	1 7	1 4	1 5
5	1 4	1 5	1 4	1 5	1 4	1 5	1 1	1 2	1 1	1 2	1 4	1 5	1 4	1 5	1 1	1 2	1 4	1 5	1 4	1 5
6	1 6	1 7	1 4	1 5	1 4	1 5	1 2	1 5	1 2	1 4	1 4	1 5	1 4	1 5	1 1	1 2	1 4	1 5	1 4	1 5
7	1 2	1 4	1 2	1 4	1 4	1 5	1 2	1 5	1 5	0 6	1 2	1 4	1 4	1 5	1 1	1 2	1 4	1 5	1 2	1 4
8	1 6	1 7	1 6	1 7	1 4	1 5	1 2	1 5	1 2	1 4	1 4	1 5	1 6	1 7	1 2	1 4	1 6	1 7	1 4	1 5

UPPER AND LOWER CASE LETTER WIDTHS

LETTERS	6 INCH UPPER CASE LETTERS SERIES C	D	8 INCH UPPER CASE LETTERS SERIES C	D	LETTERS	6 INCH LOWER CASE LETTERS SERIES C	D
A	3 6	5 0	5 0	6 5	a	3 5	4 2
B	3 2	4 0	4 3	5 3	b	3 5	4 2
C	3 2	4 0	4 3	5 3	c	3 5	4 1
D	3 2	4 0	4 3	5 3	d	3 5	4 2
E	3 0	3 5	4 0	4 7	e	3 5	4 2
F	3 0	3 5	4 0	4 7	f	2 3	2 6
G	3 2	4 0	4 3	5 3	g	3 5	4 2
H	3 2	4 0	4 3	5 3	h	3 5	4 2
I	0 7	0 7	1 1	1 2	i	1 1	1 1
J	3 0	3 6	4 0	5 0	j	2 0	2 2
K	3 2	4 1	4 3	5 4	k	3 5	4 2
L	3 0	3 5	4 0	4 7	l	1 1	1 1
M	3 7	4 5	5 1	6 1	m	6 0	7 0
N	3 2	4 0	4 3	5 3	n	3 5	4 2
O	3 4	4 2	4 5	5 5	o	3 6	4 3
P	3 2	4 0	4 3	5 3	p	3 5	4 2
Q	3 4	4 2	4 5	5 5	q	3 5	4 2
R	3 2	4 0	4 3	5 3	r	2 6	3 2
S	3 2	4 0	4 3	5 3	s	3 6	4 2
T	3 0	3 5	4 0	4 7	t	2 7	3 2
U	3 2	4 0	4 3	5 3	u	3 5	4 2
V	3 5	4 4	4 7	6 0	v	4 2	4 7
W	4 4	5 2	6 0	7 0	w	5 5	6 4
X	3 4	4 0	4 5	5 3	x	4 4	5 1
Y	3 6	5 0	5 0	6 6	y	4 6	5 3
Z	3 2	4 0	4 3	5 3	z	3 6	4 3

NUMBER	6 INCH SERIES C	D	8 INCH SERIES C	D
1	1 2	1 4	1 5	2 0
2	3 2	4 0	4 3	5 3
3	3 2	4 0	4 3	5 3
4	3 5	4 3	4 7	5 7
5	3 2	4 0	4 3	5 3
6	3 2	4 0	4 3	5 3
7	3 2	4 0	4 3	5 3
8	3 2	4 0	4 3	5 3
9	3 2	4 0	4 3	5 3
0	3 4	4 2	4 5	5 5

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF PALATINE
PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION
SMITH STREET TO US 14 (NORTHWEST HIGHWAY)

MAST ARM MOUNTED STREET NAME SIGNS

SCALE: NONE — DRAWN BY JMK
DATE OCTOBER 19, 2009 — CHECKED BY DMB

TD-15

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LOOP DETECTOR NOTES

1. 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.

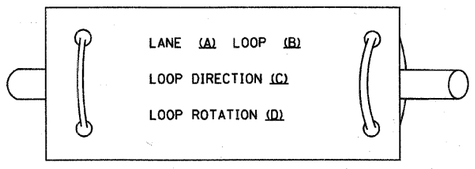
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

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

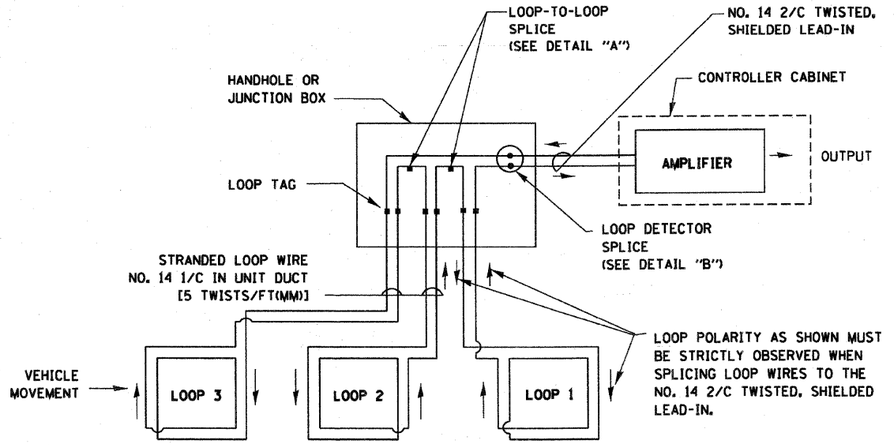


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

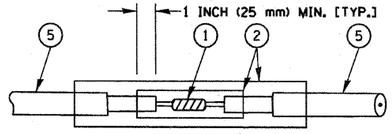
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

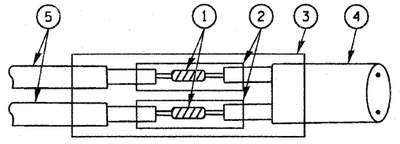


DETECTOR LOOP WIRING SCHEMATIC

- 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.

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		DRAWN - R.W.P.	REVISED - BUR. TRAFFIC 01-01-02
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - D.A.Z.	REVISED -
	PLOT DATE = 1/4/2008	DATE - 05-30-00	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 1 OF 4 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	94
	TS-05	CONTRACT NO. 63083		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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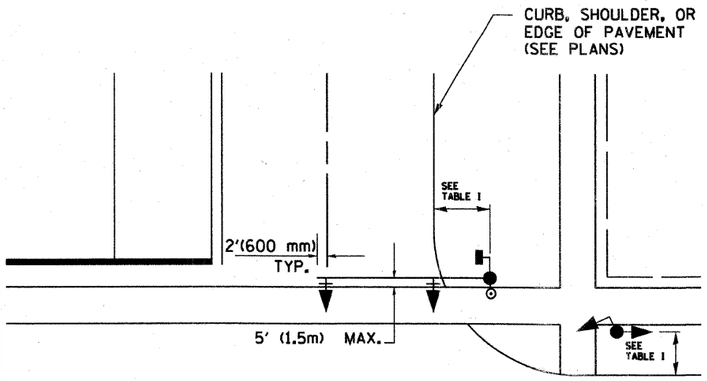
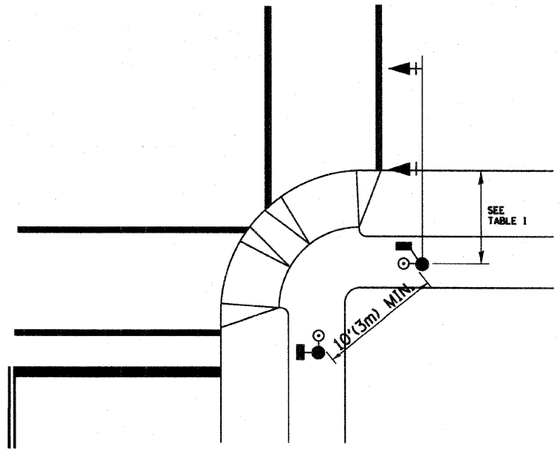
TRAFFIC SIGNAL MAST ARM AND POST

MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR



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.

NOTES:

1. 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 APPROPRIATE PUSHBUTTON.

   PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:

   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.

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

   C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.

   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) ABOVE ADJACENT SIDEWALK

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 BEING USED.

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 POINT OF PAVEMENT)

PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

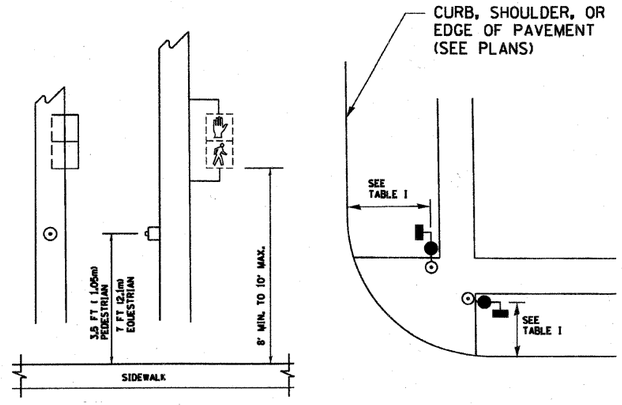


TABLE I

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

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	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 2 OF 4 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	95
	TS-05	CONTRACT NO. 63083		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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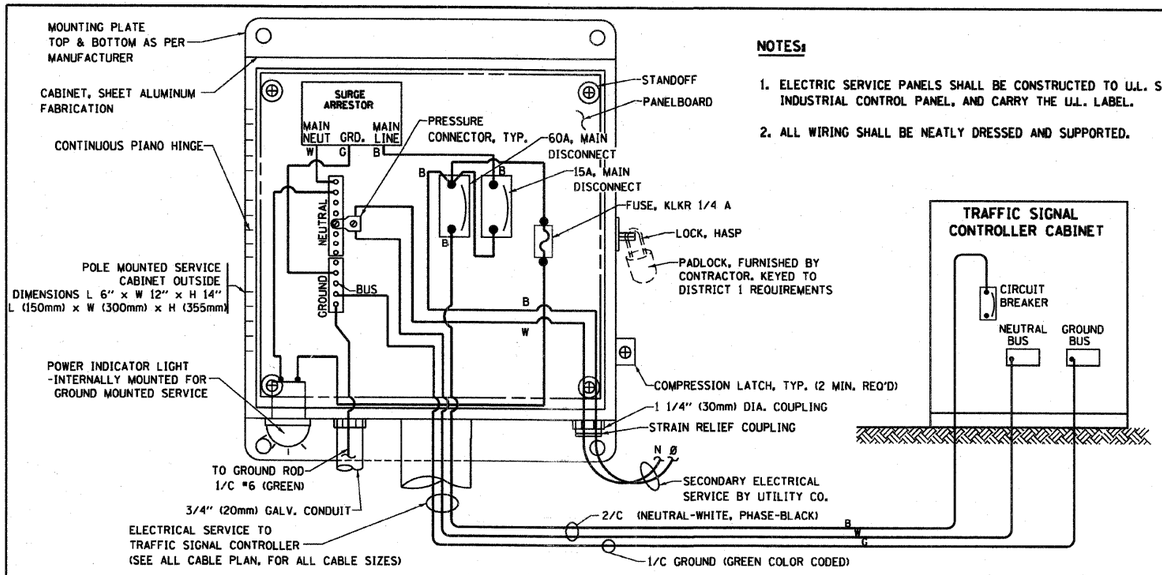


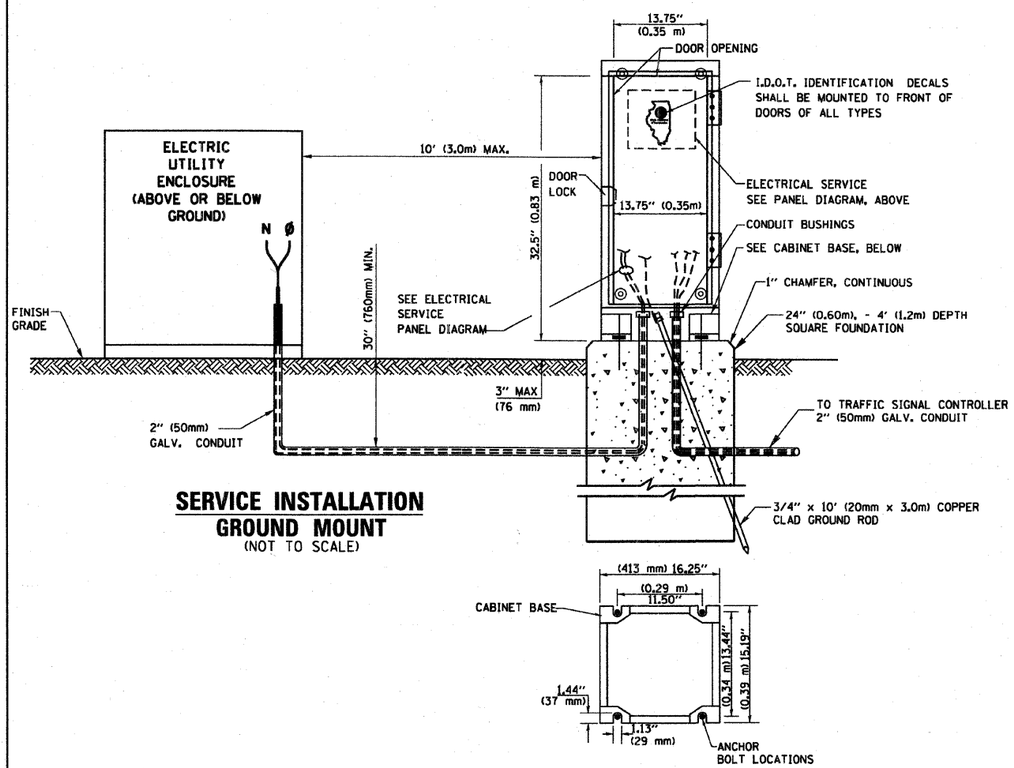
NOTES:

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)

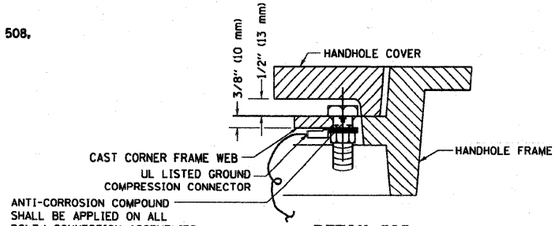


SERVICE INSTALLATION GROUND MOUNT

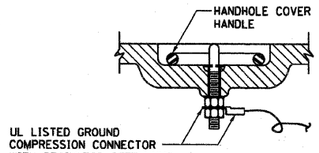
(NOT TO SCALE)

CABINET – BASE BOLT PATTERN

(NOT TO SCALE)



DETAIL "A"

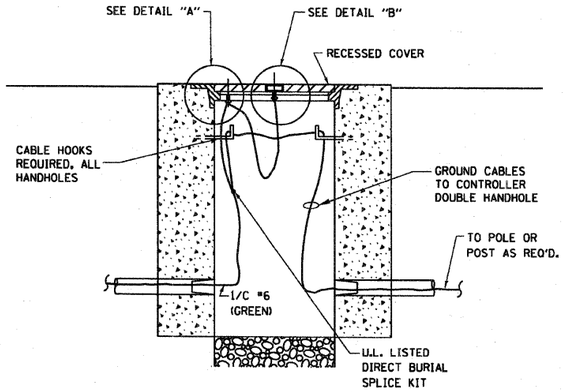


DETAIL "B"

NOTES:

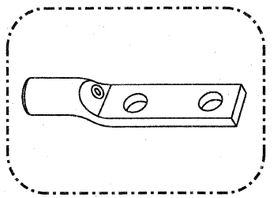
GROUNDING SYSTEM

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)

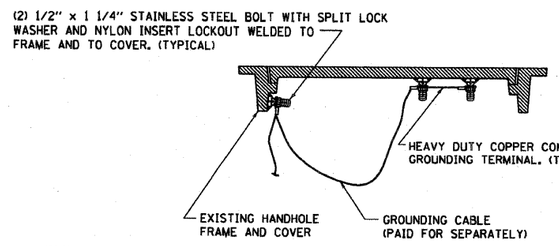


HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)

3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EUAL)

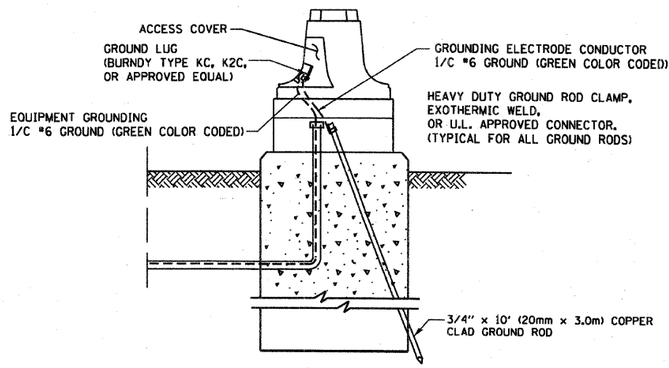
NOTES:

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES
  6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES
  13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES.
  5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



MAST ARM POLE / POST-GROUNDING DETAIL

(NOT TO SCALE)

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		DRAWN - R.W.P.	REVISED - BUR. TRAFFIC 01-01-02
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	PLOT DATE = 1/4/2008	DATE - 05-30-00	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 3 OF 4 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	96
	TS-05	CONTRACT NO. 63083		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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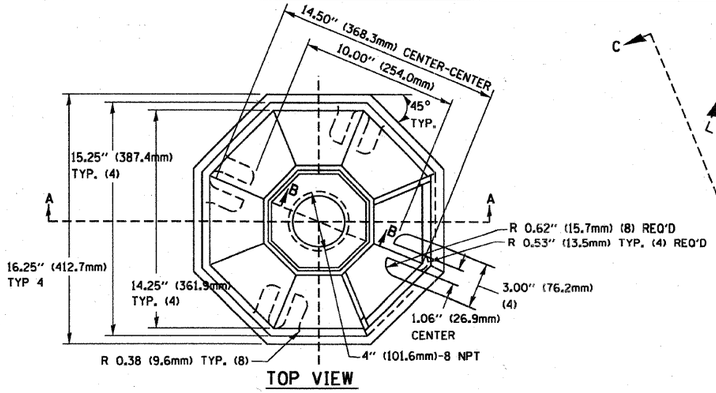
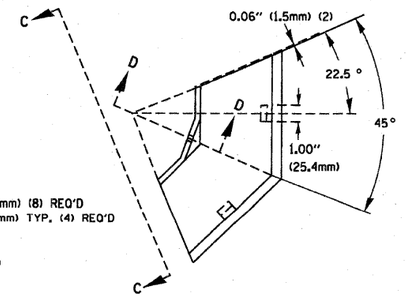
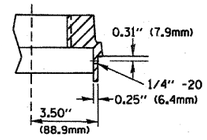
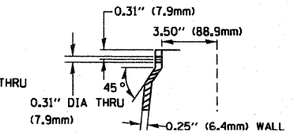


TOP VIEW

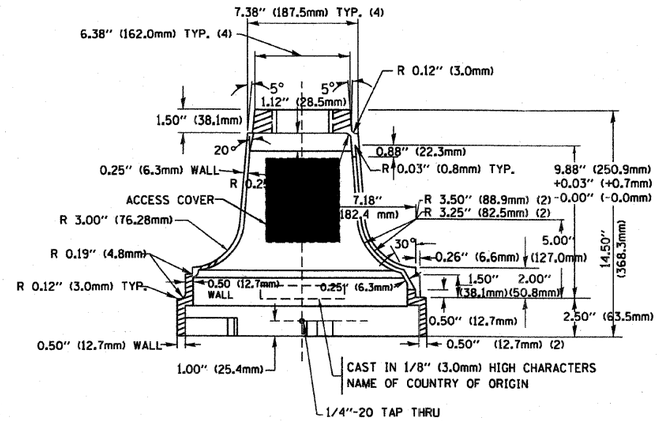




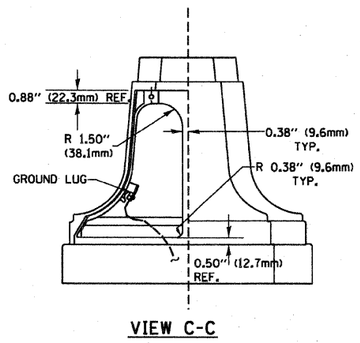
SECTION B-B



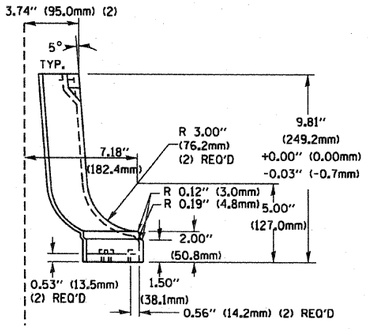
SECTION D-D



SECTION A-A

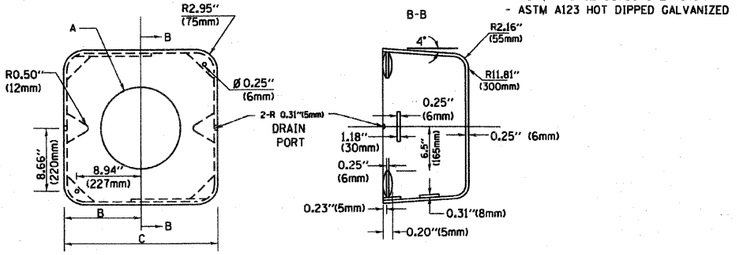


VIEW C-C



TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A

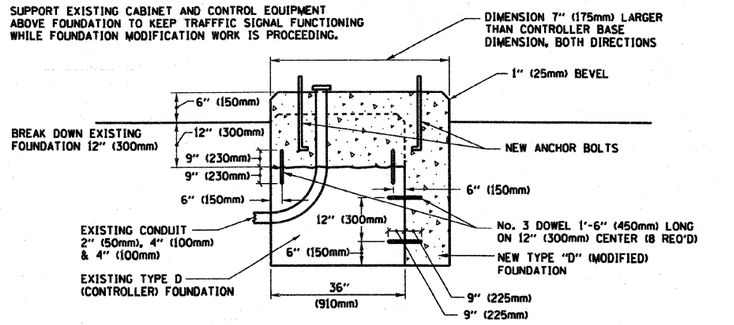
MATERIAL:
- ASTM A48 CLASS 30 GREY IRON
- ASTM A123 HOT DIPPED GALVANIZED



TYPE	A	B	C	HEIGHT	WEIGHT
I	Ø 10.125"(257mm)	9.5"(241mm)	19"(483mm)	12" (300mm)	24kg
II	Ø 11.125"(283mm)	10.75"(273mm)	21.5"(546mm)	12" (300mm)	26kg

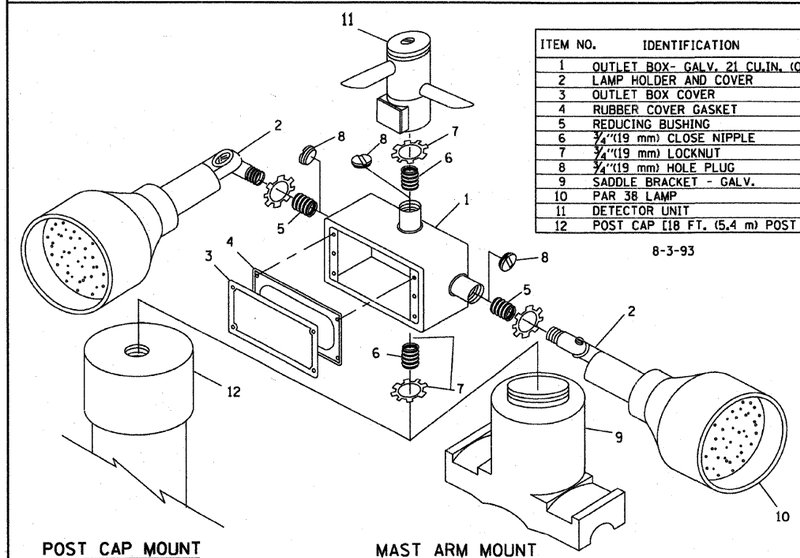
SHROUD DETAIL

NOTE:
SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION

(NOT TO SCALE)



ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾"(19 mm) CLOSE NIPPLE
7	¾"(19 mm) LOCKNUT
8	¾"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	PAR 38 LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

8-3-93

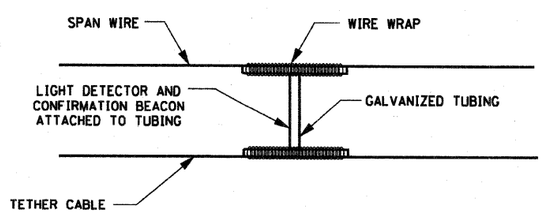
POST CAP MOUNT

MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

NOTES:

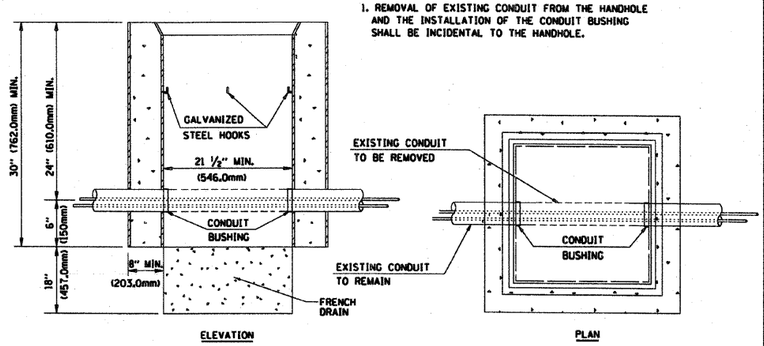
1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
   ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
   ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A ¾"(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



LIGHT DETECTOR AND CONFIRMATION BEACON MOUNTING FOR TEMPORARY TRAFFIC SIGNALS

(NOT TO SCALE)

NOTES:
1. REMOVAL OF EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHING SHALL BE INCIDENTAL TO THE HANDHOLE.



DETAIL
HANDHOLE TO INTERCEPT EXISTING CONDUIT
N.T.S.

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		DRAWN - R.W.P.	REVISED - BUR.TRAFFIC 11-12-01	
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - D.A.Z.	REVISED - BUR.TRAFFIC 01-01-02	
	PLOT DATE = 1/4/2008	DATE - 05-30-00	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 4 OF 4 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	TS-05	CONTRACT NO. 63083		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

TD-19

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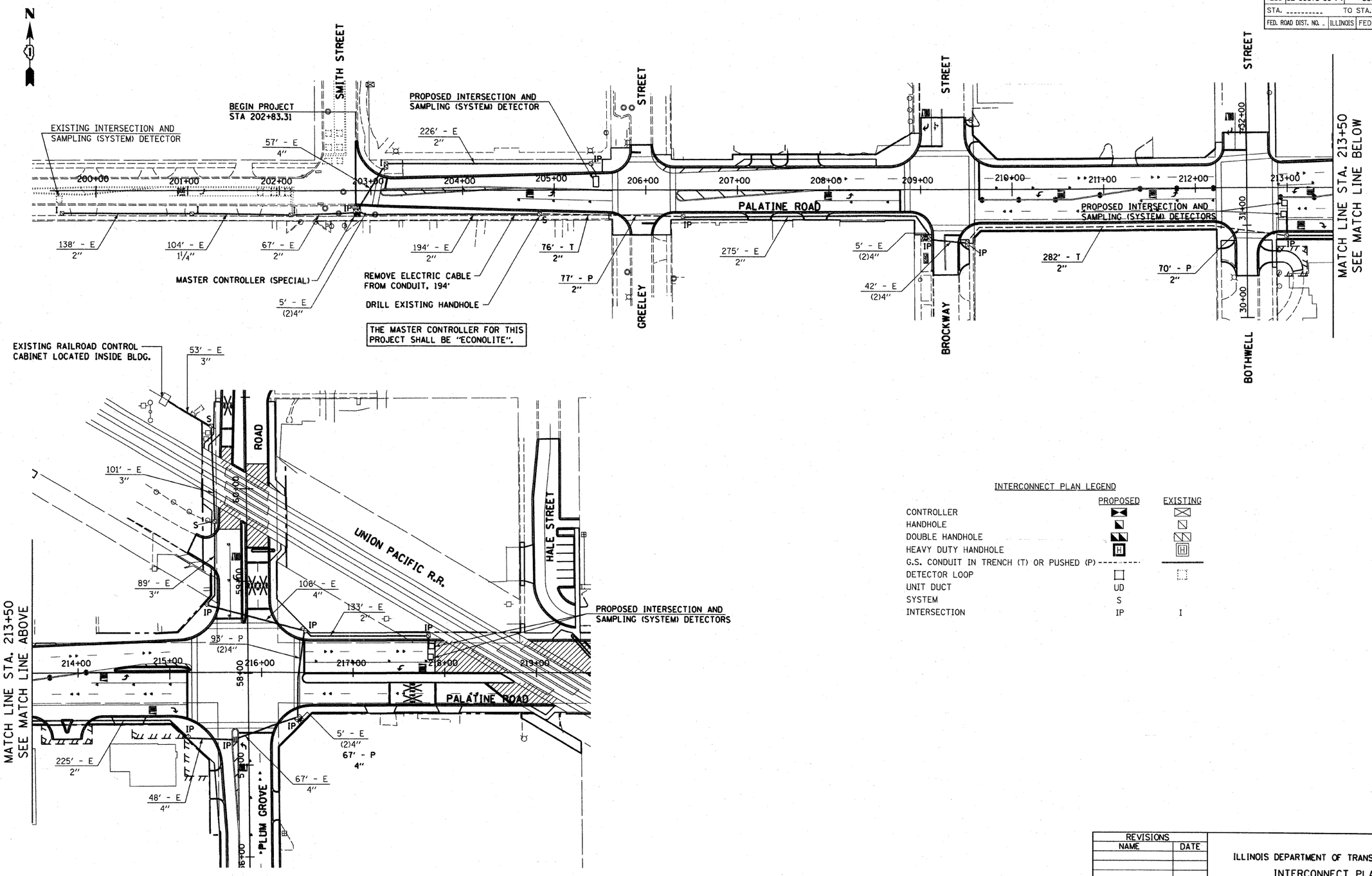
CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	98
STA. ----------	TO STA. ----------			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



INTERCONNECT PLAN LEGEND

	PROPOSED	EXISTING
CONTROLLER	▣	⊠
HANDHOLE	◪	▨
DOUBLE HANDHOLE	◪◪	▨▨
HEAVY DUTY HANDHOLE	H	H
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)	----------	----------
DETECTOR LOOP	□	⬚
UNIT DUCT	UD	
SYSTEM	S	
INTERSECTION	IP	I

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN

PALATINE ROAD
SMITH STREET TO PLUM GROVE ROAD

SCALE: 1" = 50'
DRAWN BY DMB
DATE OCTOBER 19, 2009
CHECKED BY RY

PLOT DATE = $DATE$
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tc01001.sht 1/25/2010 4:32:52 PM

CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	99
STA. _____	TO STA._____			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

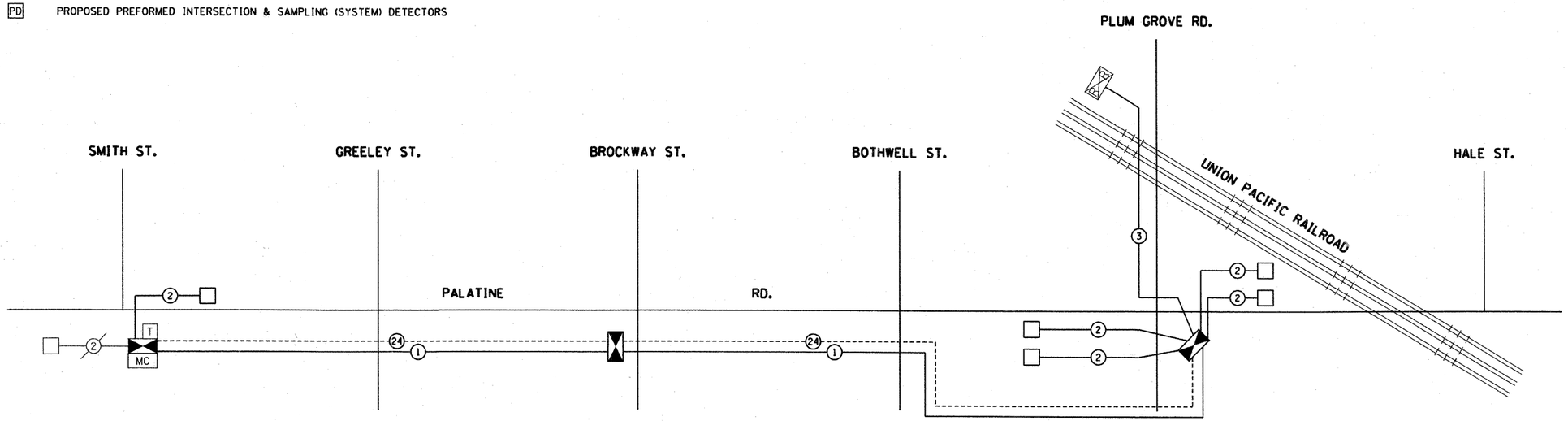
INTERCONNECT SCHEMATIC LEGEND

- EXISTING RAILROAD CONTROLLER CABINET
- EXISTING INTERSECTION CONTROLLER
- PROPOSED INTERSECTION CONTROLLER
- EMC — EXISTING MASTER CONTROLLER
- MC — PROPOSED MASTER CONTROLLER
- MMC — MASTER MASTER CONTROLLER
- EXISTING INTERSECTION & SAMPLING (SYSTEM) DETECTORS
- PROPOSED INTERSECTION & SAMPLING (SYSTEM) DETECTORS
- P — EXISTING INTERSECTION LOOP DETECTORS. PROPOSED SAMPLING (SYSTEM) DETECTORS.
- ES — EXISTING SAMPLING (SYSTEM) DETECTORS
- PS — PROPOSED SAMPLING (SYSTEM) DETECTORS
- ESP — EXISTING SAMPLING (SYSTEM) DETECTORS. PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS.
- ESPS — EXISTING SAMPLING (SYSTEM) DETECTORS. PROPOSED SAMPLING (SYSTEM) DETECTORS.
- PD — EXISTING PREFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS
- PD — PROPOSED PREFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS
- ESPD — EXISTING SAMPLING (SYSTEM) PREFORMED DETECTORS
- PSPD — PROPOSED SAMPLING (SYSTEM) PREFORMED DETECTORS
- (24) — EXISTING FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F
- (24) — PROPOSED FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F
- (12) — EXISTING INTERCONNECT CABLE - NO. 62.5/125 12F FIBER OPTIC CABLE
- (12) — PROPOSED INTERCONNECT CABLE - NO. 62.5/125 12F FIBER OPTIC CABLE
- (6) — EXISTING INTERCONNECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED
- (6) — PROPOSED INTERCONNECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED
- (2) — EXISTING LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED
- (2) — PROPOSED LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED
- (1) — EXISTING ELECTRIC CABLE, 1/C (AS SPECIFIED)
- (1) — PROPOSED ELECTRIC CABLE, 1/C (AS SPECIFIED)
- T — EXISTING TELEPHONE CONNECTION
- T — PROPOSED TELEPHONE CONNECTION

N

N.T.S.

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



INTERCONNECT SCHEDULE OF QUANTITIES

CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	358
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	147
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	358
MASTER CONTROLLER (SPECIAL)	EACH	1
DRILL EXISTING HANDHOLE	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	194
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1,461
OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	1,461

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES

PALATINE ROAD
SMITH STREET TO PLUM GROVE ROAD

SCALE: NTS — DRAWN BY DMB

DATE OCTOBER 19, 2009 — CHECKED BY RY

TC-2

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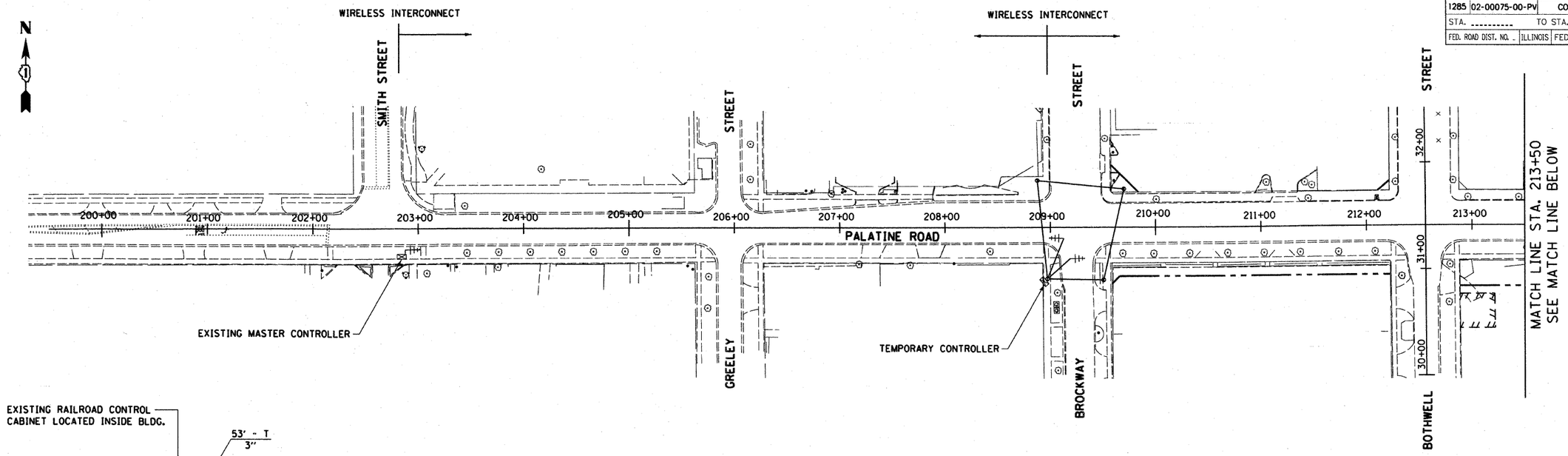
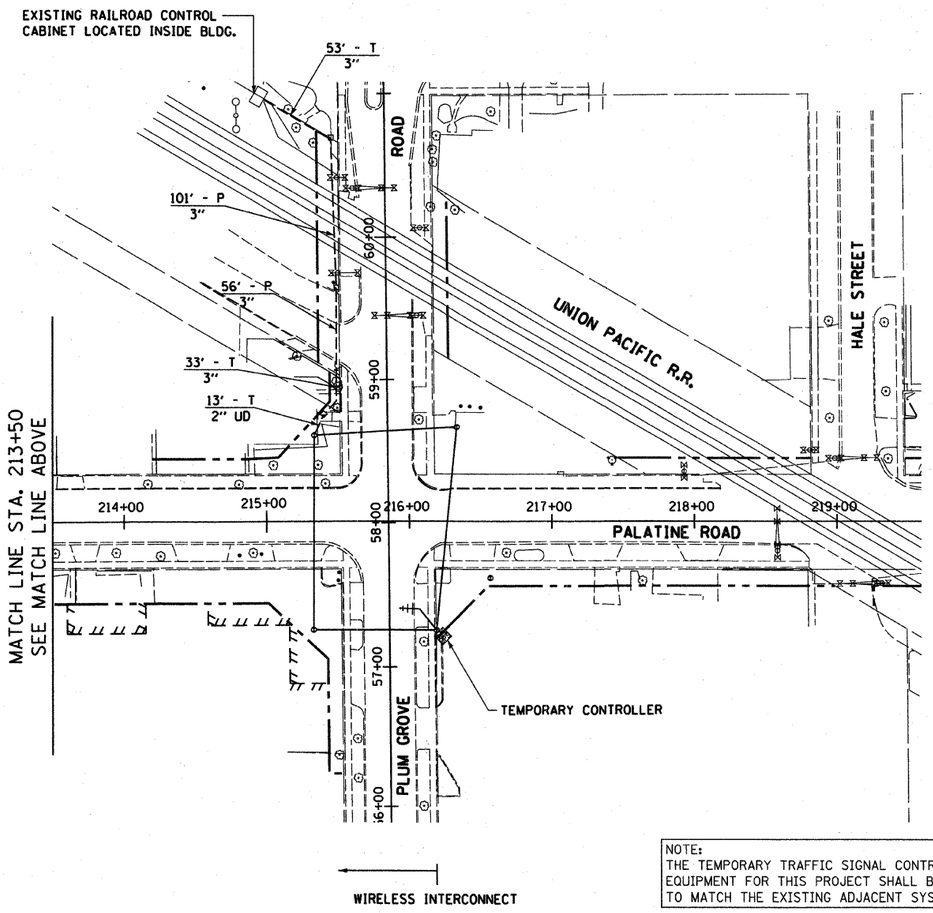
CONTRACT NO. 63083

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	02-00075-00-PV	COOK	161	100
STA. ----------	TO STA. ----------			
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		





NOTE:
THE TEMPORARY TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

NOTES FOR TEMPORARY & MAINTENANCE OF TRAFFIC SIGNALS

1. THE CONTRACTOR MUST PROVIDE ASSURANCE THAT THE RADIO DEVICE WILL OPERATE PROPERLY AT ALL TIMES AND DURING ALL CONSTRUCTION STAGES. IF WIRELESS INTERCONNECT FAILS DURING TESTING OR OPERATIONS, CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING NECESSARY POLES, FIBER OPTIC CABLE AND OTHER INFRASTRUCTURE FOR PROVIDING TEMPORARY FIBER INTERCONNECT AT NO COST TO THE CONTRACT.

CONSTRUCTION NOTES:

1. TEMPORARY RADIO INTERCONNECT MAY BE USED ON THIS PROJECT AS SHOWN IN THE PLANS. RADIO ANTENNAS SHOULD BE INSTALLED ON THE WOOD POLES ADJACENT TO THE TEMPORARY CONTROLLER OR ON EXISTING CONTROLLERS. ALL WORK RELATED TO INSTALLATION AND ENSURING PROPER OPERATION OF THE TEMPORARY INTERCONNECT SHALL BE INCIDENTAL TO THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION" OR "MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION" FOR EACH INTERSECTION.

TEMPORARY INTERCONNECT PLAN LEGEND

	PROPOSED	EXISTING
CONTROLLER	▰	▱
HANDHOLE	◥	◹
DOUBLE HANDHOLE	◥◤	◹◺
HEAVY DUTY HANDHOLE	H	H
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)	---------	----------
DETECTOR LOOP	□	⬚
UNIT DUCT	UD	
SYSTEM	S	
INTERSECTION	IP	I
RADIO INTERCONNECT ANTENNA	⊣⊢	

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TEMPORARY INTERCONNECT PLAN
PALATINE ROAD
SMITH STREET TO PLUM GROVE ROAD

SCALE: 1" = 50'
DRAWN BY DMB
DATE OCTOBER 19, 2009
CHECKED BY RY

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