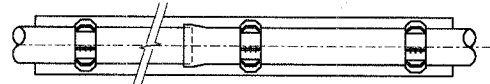


**PROPOSED SLEEVE DETAIL**  
N.T.S.

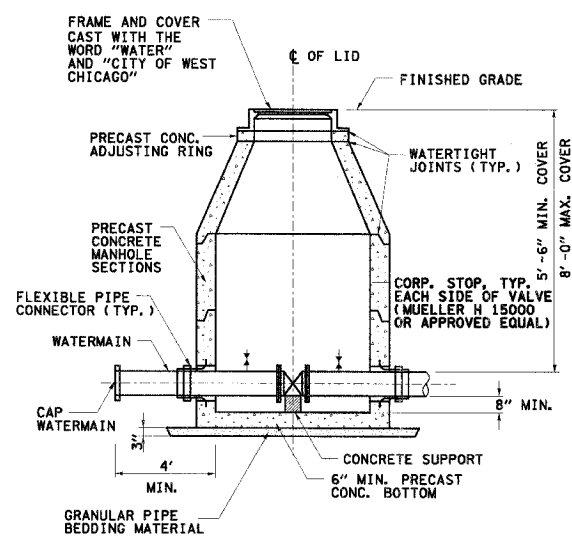
- SEAL ANNUAL SPACE, TYP. EACH END (SEE NOTE 4)  
 - STEEL CASING PIPE DIAMETER (SEE TABLE)  
 ASTM A139, GRADE B (SMYS = 35,000 PSI)  
 MIN. THICKNESS SHALL BE 3/8" UNLESS OTHERWISE NOTED.
- CASING SPACER, TYP., TO BE LOCATED APPROXIMATELY EVERY 6 FEET. (SEE NOTE 3)



CARRIER PIPE DIA.	STEEL CASING PIPE DIA.
	D.I.P. DIA.
12"	24"
14"-16"	30"
18"	36"
20"-21"	36"
24"	42"

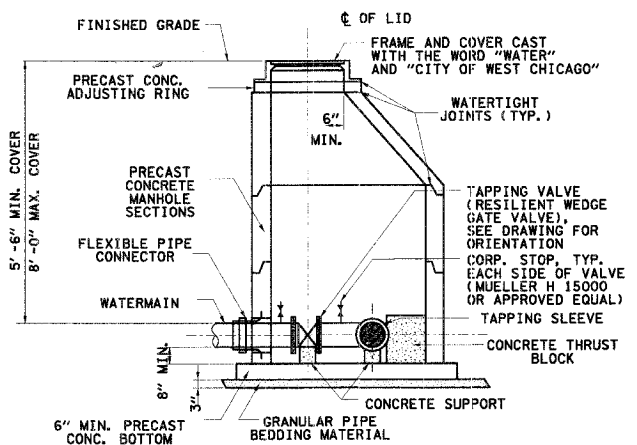
**STEEL CASING PIPE DETAIL**  
N.T.S.

- NOTES:
1. STEEL CASING SHALL BE ONE CONTINUOUS SECTION
  2. SMYS - SPECIFIC MINIMUM YIELD STRENGTH
  3. CASING SPACERS TO BE CASCADE MODEL CSS OR APPROVED EQUAL.
  4. CASING END SEALS TO BE CASCADE MODEL CSES END SEALS OR APPROVED EQUAL. MORTARING OF CASING ENDS SUBJECT ONLY TO PRE-APPROVAL.
  5. FOR WATERMAIN ALL PUSH JOINTS IN CASING SHALL HAVE "FIELD LOCK GASKETS".



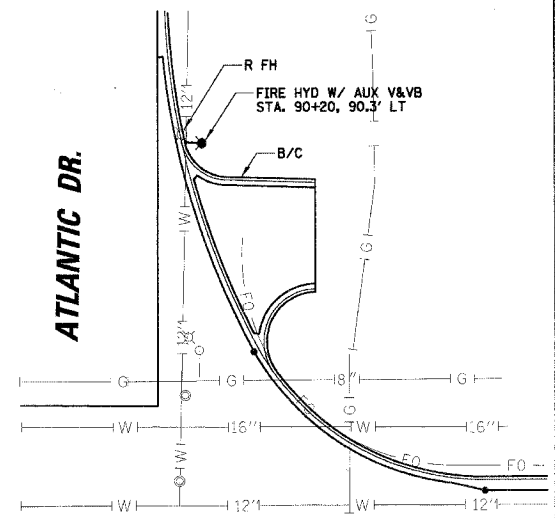
- NOTES:
1. VALVE VAULTS SHALL BE PRE-CAST CONCRETE WITH CONCENTRIC CONE REQUIRED.
  2. LIDS SHALL BE NEENAH R 1772 TYPE "B" OR EJIW 1022-1 HD OR APPROVED EQUAL.
  3. EZ-STICK GASKET OR APPROVED EQUAL SHALL BE INSTALLED AT ALL JOINTS.
  4. USE 4'-0" DIAMETER FOR WATERMAIN SIZES 4" THRU 8"  
 USE 5'-0" DIAMETER FOR WATERMAIN SIZES 10" THRU 20"  
 USE 6'-0" DIAMETER FOR WATERMAIN SIZES GREATER THAN 20"

**STANDARD VALVE VAULT DETAIL**  
N.T.S.

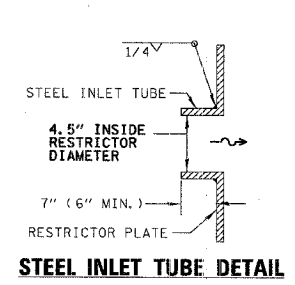
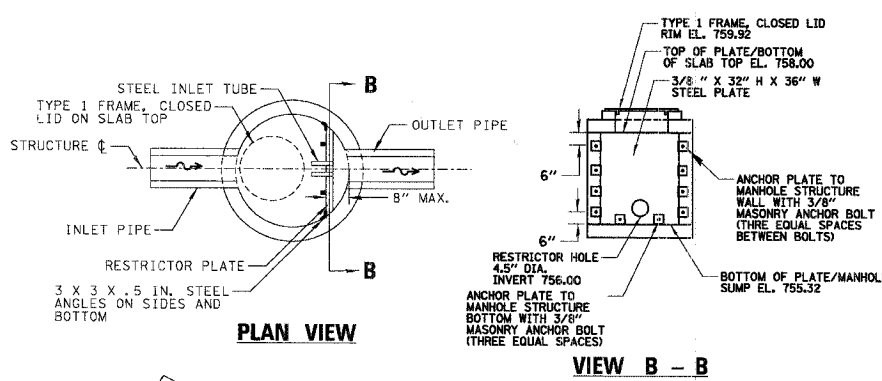


- NOTES:
1. VALVE VAULTS SHALL BE PRE-CAST CONCRETE WITH ECCENTRIC CONE REQUIRED.
  2. USE 5'-0" DIAMETER FOR WATERMAIN SIZES 4" THRU 12"
  3. USE 6'-0" DIAMETER FOR WATERMAIN SIZES 16" OR GREATER
  4. LIDS SHALL BE NEENAH R 1772 TYPE "B" OR EJIW 1022-1 HD OR APPROVED EQUAL.
  5. EZ-STICK GASKET OR APPROVED EQUAL SHALL BE INSTALLED AT ALL JOINTS.
  6. TAPPING SLEEVE SHALL BE MUELLER CAST IRON MJ #615, AMERICAN FLOW CONTROL DUCTILE IRON SERIES 2800, TYLER/UNION DUCTILE IRON, US PIPE DUCTILE IRON T-9 OR APPROVED EQUAL.

**PRESSURE CONNECT VALVE VAULT DETAIL**  
N.T.S.

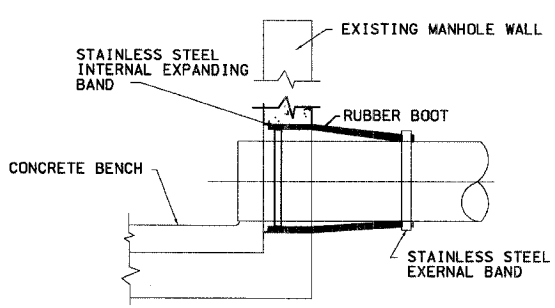


**ATLANTIC DR. FIRE HYDRANT DETAIL**  
N.T.S.



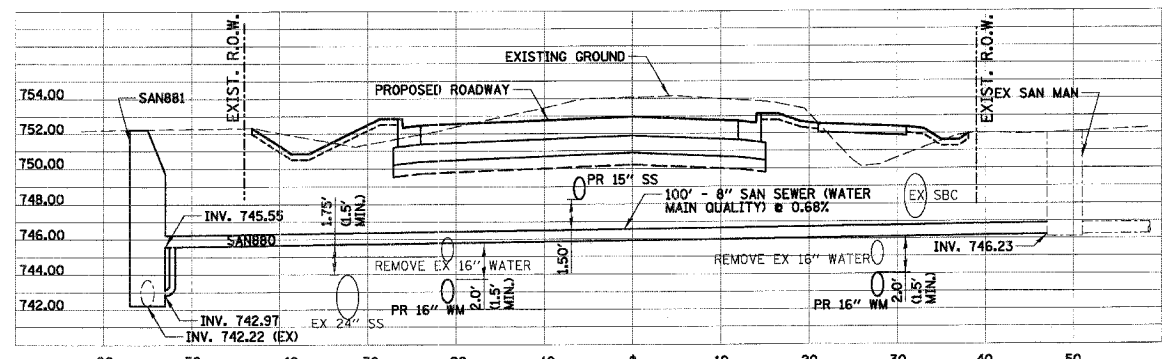
ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION. ALL RESTRICTOR PLATES AND HARDWARE TO BE INCIDENTAL TO THE COST OF THE MANHOLES

**STRUCTURE S1126**  
**MANHOLES, TYPE A, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE**

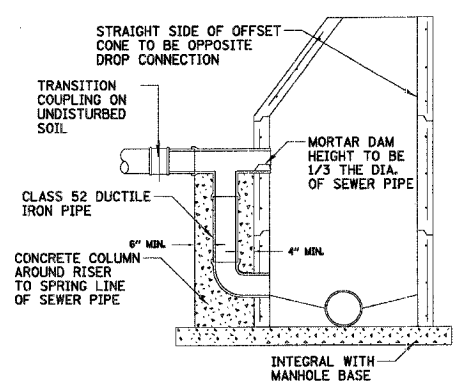


- GENERAL NOTES:
1. CORE-DRILL CIRCULAR OPENING IN MANHOLE WALL OF DIAMETER TO FIT THE REQUIRED BOOT SIZE.
  2. KOR-N-SEAL FLEXIBLE RUBBER BOOT (MANUFACTURED BY NATIONAL POLLUTION CONTROL SYSTEMS, INC.) OR APPROVED EQUAL SHALL BE USED FOR WATERTIGHT CONNECTION.
  3. CUT, SHAPE AND SLOPE NEW INVERT CHANNEL IN THE EXISTING CONCRETE BENCH FOR SMOOTH FLOW FROM NEW SANITARY SEWER CONNECTION.
  4. CLEAN EXISTING MANHOLE OF ANY DIRT, CONCRETE OR DEBRIS WHICH MAY ACCUMULATE DURING THE CONSTRUCTION PROCESS.
  5. WORK REQUIRED IS INCLUDED IN SANITARY SEWER PIPE, OF REQUIRED SIZE.

**CORING BOOT**  
N.T.S.

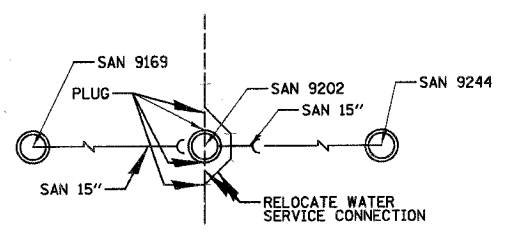


**SANITARY SEWER PROFILE STA. 68+25.0**  
LOOKING EAST



DROP CONNECTION TO BE USED WHERE INCOMING SEWER IS GREATER THAN 2' ABOVE MANHOLE INVERT

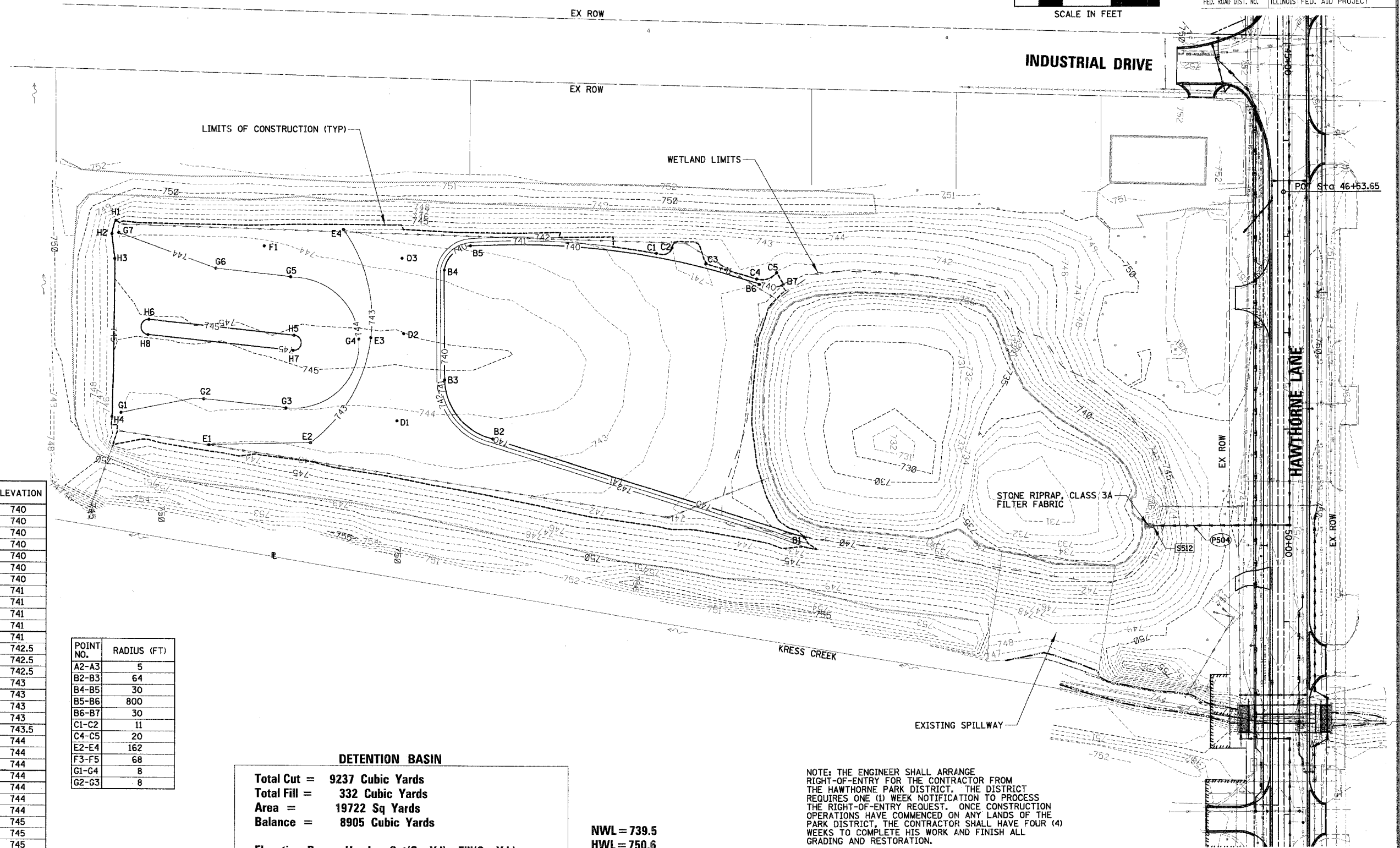
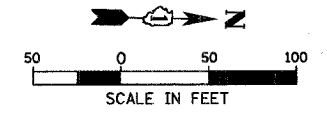
**DROP SANITARY**  
**MANHOLE CONNECTION**  
N.T.S.



**DETAIL 1**  
**WATER SERVICE CONNECTION**  
**STA. 114+77**  
N.T.S.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HAWTHORNE LANE**  
**SANITARY SEWER AND**  
**WATER MAIN DETAILS**  
 SCALE: 10'  
 DATE: 12/8/2006  
 DRAWN BY: PMM  
 DESIGN BY: BLL  
 CHECKED BY: JCS



**CONTROL POINTS**

POINT NO.	NORTHING	EASTING	ELEVATION
B1	1,905,634.81	1,011,886.35	740
B2	1,905,310.06	1,011,791.12	740
B3	1,905,259.09	1,011,730.53	740
B4	1,905,256.45	1,011,617.16	740
B5	1,905,283.07	1,011,590.88	740
B6	1,905,583.53	1,011,625.02	740
B7	1,905,608.18	1,011,624.30	740
C1	1,905,476.02	1,011,594.65	741
C2	1,905,492.14	1,011,588.62	741
C3	1,905,527.20	1,011,605.07	741
C4	1,905,580.58	1,011,619.41	741
C5	1,905,601.10	1,011,612.54	741
D1	1,905,210.46	1,011,774.41	742.5
D2	1,905,215.65	1,011,683.70	742.5
D3	1,905,212.49	1,011,605.62	742.5
E1	1,905,016.11	1,011,803.83	743
E2	1,905,121.33	1,011,799.22	743
E3	1,905,181.68	1,011,688.63	743
E4	1,905,151.07	1,011,576.83	743
F1	1,905,069.30	1,011,595.83	743.5
G1	1,904,924.33	1,011,772.39	744
G2	1,905,009.76	1,011,756.20	744
G3	1,905,095.21	1,011,763.84	744
G4	1,905,169.35	1,011,690.36	744
G5	1,905,097.37	1,011,627.46	744
G6	1,905,019.69	1,011,620.72	744
G7	1,904,918.23	1,011,585.52	744
H1	1,904,915.01	1,011,572.98	745
H2	1,904,911.18	1,011,586.91	745
H3	1,904,914.60	1,011,612.88	745
H4	1,904,915.05	1,011,776.58	745
H5	1,905,101.97	1,011,688.09	745
H6	1,904,951.35	1,011,675.01	745
H7	1,905,101.46	1,011,703.70	745
H8	1,904,950.66	1,011,690.79	745

POINT NO.	RADIUS (FT)
A2-A3	5
B2-B3	64
B4-B5	30
B5-B6	800
B6-B7	30
C1-C2	11
C4-C5	20
E2-E4	162
F3-F5	68
G1-G4	8
G2-G3	8

**DETENTION BASIN**

Total Cut =	9237 Cubic Yards
Total Fill =	332 Cubic Yards
Area =	19722 Sq Yards
Balance =	8905 Cubic Yards
<b>Elevation Range Used</b>	<b>Cut(Cu. Yd)</b> <b>Fill(Cu. Yd.)</b>
740.000 to 741.000	Cut = 2543 Fill = 7
741.000 to 742.000	Cut = 2152 Fill = 80
742.000 to 743.000	Cut = 1950 Fill = 135
743.000 to 744.000	Cut = 1623 Fill = 70
744.000 to 745.000	Cut = 923 Fill = 38
745.000 to 746.000	Cut = 46 Fill = 2

NWL = 739.5  
 HWL = 750.6  
 DETAINED VOLUME = 5.52 AC-FT  
 MINIMUM BERM EL = 755-749.5

NOTE: THE ENGINEER SHALL ARRANGE RIGHT-OF-ENTRY FOR THE CONTRACTOR FROM THE HAWTHORNE PARK DISTRICT. THE DISTRICT REQUIRES ONE (1) WEEK NOTIFICATION TO PROCESS THE RIGHT-OF-ENTRY REQUEST. ONCE CONSTRUCTION OPERATIONS HAVE COMMENCED ON ANY LANDS OF THE PARK DISTRICT, THE CONTRACTOR SHALL HAVE FOUR (4) WEEKS TO COMPLETE HIS WORK AND FINISH ALL GRADING AND RESTORATION.

NOTE: FOR ADDITIONAL INFORMATION SEE EROSION CONTROL & LANDSCAPING PLAN, SHEET AND DRAINAGE SCHEDULE SHEET, 69

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**HAWTHORNE PARK RESERVOIR  
 GRADING PLAN**

SCALE: 50'  
 DATE: 12/7/2006

DRAWN BY: PMM  
 DESIGN BY: BLL  
 CHECKED BY: JGS

**CONTROL POINTS**

POINT NO.	NORTHING	EASTING	ELEVATION
A1	1,905,276.42	1,015,685.80	753
A2	1,905,268.03	1,015,674.59	753
A3	1,905,284.27	1,015,662.44	753
A4	1,905,292.65	1,015,673.65	753
A5	1,905,616.65	1,015,778.88	753
A6	1,905,588.79	1,015,790.01	753
A7	1,905,587.42	1,015,773.32	753
A8	1,905,610.71	1,015,820.74	753
B1	1,905,417.00	1,015,764.02	755.5
B2	1,905,391.64	1,015,809.63	755.5
B3	1,905,255.44	1,015,690.43	755.5
B4	1,905,256.64	1,015,670.62	755.5
B5	1,905,388.90	1,015,571.66	755.5
B6	1,905,412.88	1,015,583.40	755.5
C1	1,905,411.65	1,015,842.56	756
C2	1,905,445.04	1,015,864.40	756
C3	1,905,468.23	1,015,851.56	756
C4	1,905,467.60	1,015,817.04	756
C5	1,905,482.06	1,015,801.78	756
C6	1,905,549.44	1,015,799.43	756
C7	1,905,586.42	1,015,805.35	756
C8	1,905,596.01	1,015,803.71	756
C9	1,905,621.10	1,015,790.02	756
C10	1,905,606.06	1,015,752.96	756
C11	1,905,553.40	1,015,773.99	756
C12	1,905,544.76	1,015,774.74	756
C13	1,905,518.45	1,015,769.22	756
C14	1,905,475.86	1,015,754.80	756
C15	1,905,465.67	1,015,740.79	756
C16	1,905,462.79	1,015,552.74	756
C17	1,905,445.51	1,015,538.19	756
C18	1,905,426.35	1,015,541.14	756
D1	1,905,494.27	1,015,901.27	757
D2	1,905,502.84	1,015,903.69	757
D3	1,905,613.42	1,015,900.91	757
D4	1,905,622.86	1,015,897.25	757
D5	1,905,646.62	1,015,876.68	757
D6	1,905,651.76	1,015,866.31	757
D7	1,905,656.74	1,015,789.42	757
D8	1,905,654.41	1,015,780.37	757
D9	1,905,636.26	1,015,751.99	757
D10	1,905,623.70	1,015,745.07	757
D11	1,905,522.46	1,015,744.53	757
D12	1,905,511.64	1,015,739.84	757
D13	1,905,501.00	1,015,728.58	757
D14	1,905,496.90	1,015,718.58	757
D15	1,905,493.10	1,015,535.60	757
D16	1,905,482.39	1,015,521.54	757
D17	1,905,476.16	1,015,519.69	757
D18	1,905,465.47	1,015,520.50	757
E1	1,905,500.80	1,015,520.84	759
E2	1,905,508.31	1,015,507.53	759
E3	1,905,578.57	1,015,467.06	759
E4	1,905,572.87	1,015,456.50	759
E5	1,905,496.20	1,015,495.31	759
F1	1,905,504.85	1,015,523.15	760
F2	1,905,513.06	1,015,509.46	760
F3	1,905,658.53	1,015,435.75	760
F4	1,905,666.14	1,015,418.14	760
G1	1,905,508.92	1,015,526.69	761
G2	1,905,517.14	1,015,513.00	761
G3	1,905,617.13	1,015,462.34	761
G4	1,905,632.57	1,015,463.47	761
G5	1,905,688.26	1,015,502.83	761
H1	1,905,614.56	1,015,683.41	762
H2	1,905,612.72	1,015,679.57	762
H3	1,905,610.11	1,015,582.85	762
H4	1,905,619.26	1,015,579.96	762
H5	1,905,678.95	1,015,669.10	762

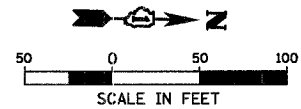
POINT NO.	RADIUS (FT)
A1-A4	7
A5-A8	8
A6-A7	8
B1-B2	15
B3-B4	13
B5-B6	15
C2-C3	15
C4-C5	15
C7-C8	15
C9-C10	20
C11-C12	15
C14-C15	15
C16-C17	15
D1-D2	15
D3-D4	15
D5-D6	15
D7-D8	15
D9-D10	15
D11-D12	15
D13-D14	15
D15-D16	15
D17-D18	15
E1-E2	15
E3-E4	6
F1-F2	15
F3-F4	15
G1-G2	15
G3-G4	15
H1-H2	15
H3-H4	15

**Total Cut = 7421 Cubic Yards**  
**Total Fill = 2739 Cubic Yards**  
**Balance = 4682 Cubic Yards**

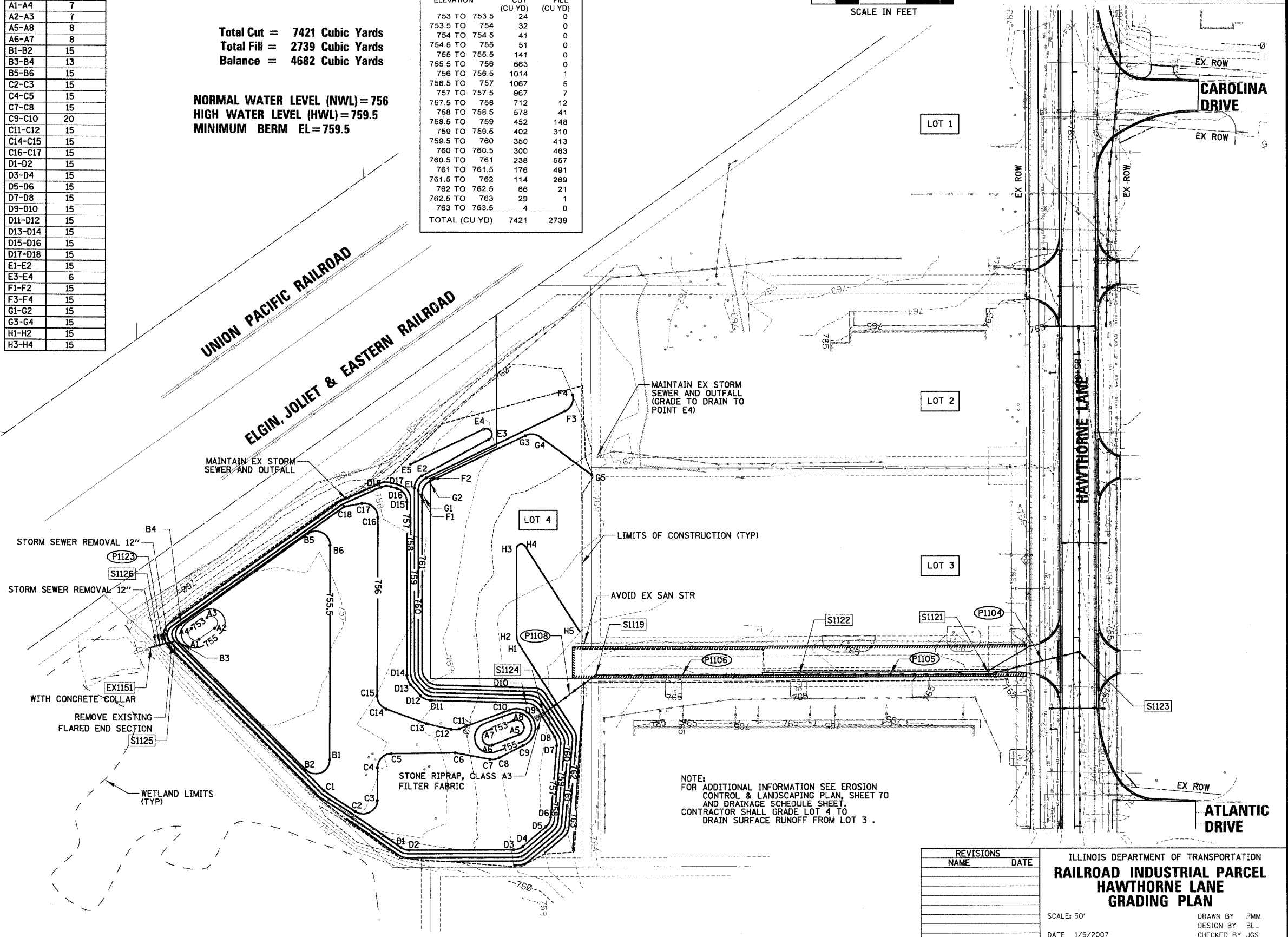
**NORMAL WATER LEVEL (NWL) = 756**  
**HIGH WATER LEVEL (HWL) = 759.5**  
**MINIMUM BERM EL = 759.5**

**DETENTION BASIN  
PROPOSED EARTHWORK**

ELEVATION	CUT (CU YD)	FILL (CU YD)
753 TO 753.5	24	0
753.5 TO 754	32	0
754 TO 754.5	41	0
754.5 TO 755	51	0
755 TO 755.5	141	0
755.5 TO 756	663	0
756 TO 756.5	1014	1
756.5 TO 757	1067	5
757 TO 757.5	967	7
757.5 TO 758	712	12
758 TO 758.5	578	41
758.5 TO 759	452	148
759 TO 759.5	402	310
759.5 TO 760	350	413
760 TO 760.5	300	483
760.5 TO 761	238	557
761 TO 761.5	178	491
761.5 TO 762	114	289
762 TO 762.5	66	21
762.5 TO 763	29	1
763 TO 763.5	4	0
<b>TOTAL (CU YD)</b>	<b>7421</b>	<b>2739</b>



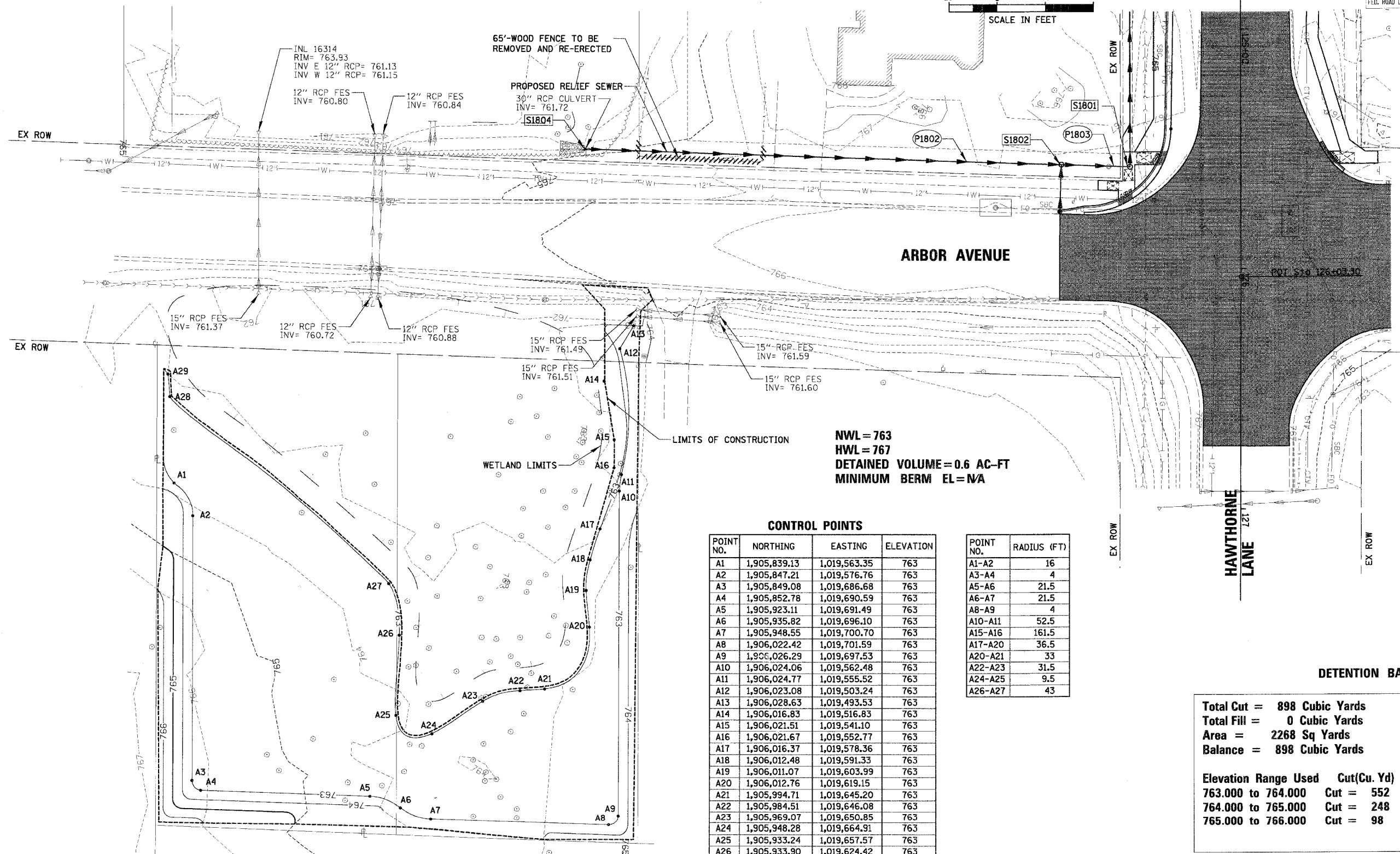
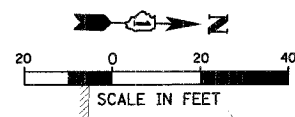
F.A.U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	103
CONTRACT NO. 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



**NOTE:**  
 FOR ADDITIONAL INFORMATION SEE EROSION CONTROL & LANDSCAPING PLAN, SHEET 70 AND DRAINAGE SCHEDULE SHEET. CONTRACTOR SHALL GRADE LOT 4 TO DRAIN SURFACE RUNOFF FROM LOT 3.

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**RAILROAD INDUSTRIAL PARCEL  
 HAWTHORNE LANE  
 GRADING PLAN**  
 SCALE: 50'  
 DATE: 1/5/2007  
 DRAWN BY: PMM  
 DESIGN BY: BLL  
 CHECKED BY: JCS



NWL = 763  
 HWL = 767  
 DETAINED VOLUME = 0.6 AC-FT  
 MINIMUM BERM EL = N/A

**CONTROL POINTS**

POINT NO.	NORTHING	EASTING	ELEVATION
A1	1,905,839.13	1,019,563.35	763
A2	1,905,847.21	1,019,576.76	763
A3	1,905,849.08	1,019,686.68	763
A4	1,905,852.78	1,019,690.59	763
A5	1,905,923.11	1,019,691.49	763
A6	1,905,935.82	1,019,696.10	763
A7	1,905,948.55	1,019,700.70	763
A8	1,906,022.42	1,019,701.59	763
A9	1,906,026.29	1,019,697.53	763
A10	1,906,024.06	1,019,562.48	763
A11	1,906,024.77	1,019,555.52	763
A12	1,906,023.08	1,019,503.24	763
A13	1,906,028.63	1,019,493.53	763
A14	1,906,016.83	1,019,516.83	763
A15	1,906,021.51	1,019,541.10	763
A16	1,906,021.67	1,019,552.77	763
A17	1,906,016.37	1,019,578.36	763
A18	1,906,012.48	1,019,591.33	763
A19	1,906,011.07	1,019,603.99	763
A20	1,906,012.76	1,019,619.15	763
A21	1,905,994.71	1,019,645.20	763
A22	1,905,984.51	1,019,646.08	763
A23	1,905,969.07	1,019,650.85	763
A24	1,905,948.28	1,019,664.91	763
A25	1,905,933.24	1,019,657.57	763
A26	1,905,933.90	1,019,624.42	763
A27	1,905,529.13	1,019,603.15	763
A28	1,905,836.64	1,019,527.51	763
A29	1,905,835.65	1,019,518.14	763

POINT NO.	RADIUS (FT)
A1-A2	16
A3-A4	4
A5-A6	21.5
A6-A7	21.5
A8-A9	4
A10-A11	52.5
A15-A16	161.5
A17-A20	36.5
A20-A21	33
A22-A23	31.5
A24-A25	9.5
A26-A27	43

**DETENTION BASIN**

Total Cut =	898 Cubic Yards
Total Fill =	0 Cubic Yards
Area =	2268 Sq Yards
Balance =	898 Cubic Yards

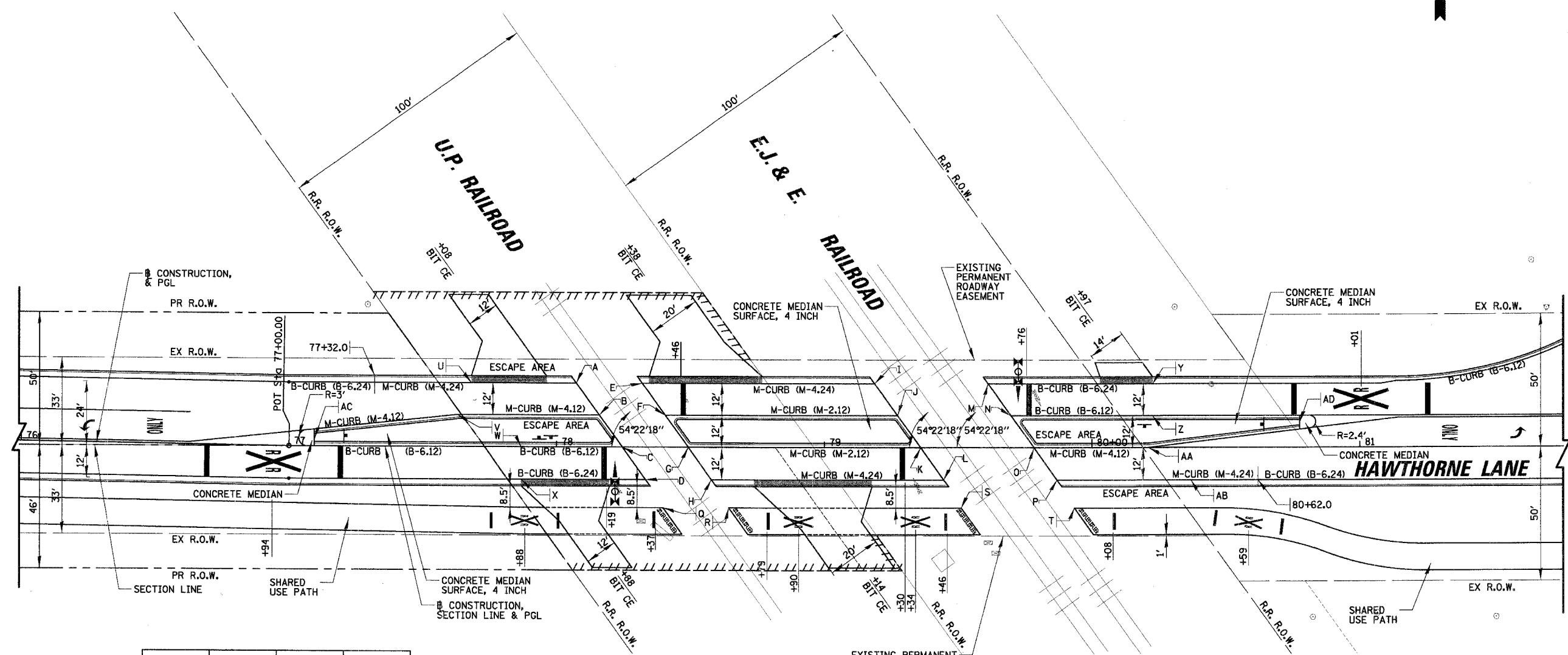
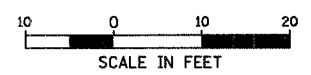
Elevation Range Used	Cut (Cu. Yd)	Fill (Cu. Yd.)
763.000 to 764.000	Cut = 552	Fill = 0
764.000 to 765.000	Cut = 248	Fill = 0
765.000 to 766.000	Cut = 98	Fill = 0

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**ARBOR AVENUE LOTS  
 HAWTHORNE LANE  
 GRADING PLAN**  
 SCALE: 20'  
 DATE: 12/7/2006  
 DRAWN BY: PMM  
 DESIGN BY: BLL  
 CHECKED BY: JCS

NOTE:  
 FOR ADDITIONAL INFORMATION SEE EROSION  
 CONTROL & LANDSCAPING PLAN, SHEET 71

N:\WestCh\04479\04479.TBL



POINT	STA.	O/S	ELEV.
A	78+07.4	24.0 LT	759.93
B	78+16.0	12.0 LT	760.04
C	78+24.6	0.0	760.16
D	78+33.2	12.0 RT	760.26
E	78+32.0	24.0 LT	760.17
F	78+40.6	12.0 LT	760.20
G	78+49.2	0.0	760.29
H	78+57.8	12.0 RT	760.40
I	79+18.8	24.0 LT	760.84
J	79+27.4	12.0 LT	760.94
K	79+36.1	0.0	761.04
L	79+44.6	12.0 RT	761.12
M	79+61.2	24.0 LT	761.21
N	79+69.8	12.0 LT	761.26
O	79+78.4	0.0	761.35
P	79+87.0	12.0 RT	761.46
Q	78+39.7	22.5 RT	760.23
R	78+64.3	22.5 RT	760.23
S	79+51.2	22.5 RT	761.10
T	79+33.5	22.5 RT	761.28
U	77+68.2	24.0 LT	759.11
V	77+62.9	12.0 LT	759.54
W	77+86.7	0.0	759.78
X	77+86.7	12.0 RT	759.54
Y	80+22.7	24.0 LT	761.33
Z	80+22.7	12.0 LT	761.57
AA	80+21.2	0.0	761.79
AB	80+37.0	12.0 RT	761.79
AC	77+09.4	---	---
AD	80+77.5	---	---

- LEGEND**
- GATES, FLASHERS AND SIGNAGE (BY OTHERS: U.P. AND E.J.&E.)
  - COMB CC&G (DEPRESSED) OF TYPE SHOWN
  - DETECTABLE WARNINGS
  - TEMPORARY EASEMENT
  - BASE FOR TELESCOPING STEEL SIGN SUPPORT (FOR ONE-WAY ONLY SIGNS)

REVISIONS		DATE
NAME		

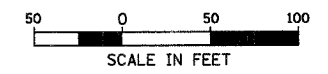
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**MEDIAN AND CURB TREATMENTS AT HIGHWAY-RAIL INTERSECTIONS HAWTHORNE LANE**

SCALE: 20'  
 DATE: 12/7/2006

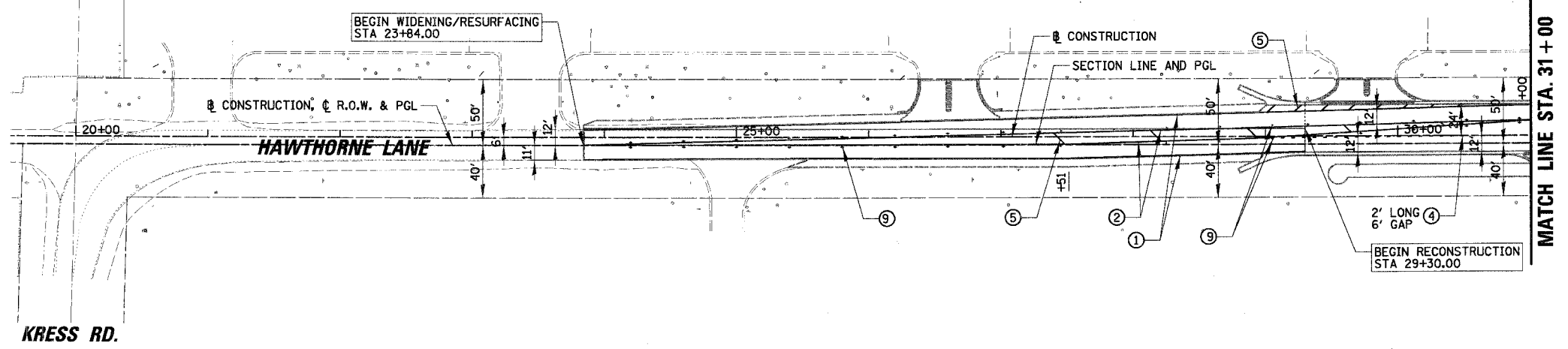
DRAWN BY: PMM  
 DESIGN BY: BLL  
 CHECKED BY: JGS

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P.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
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CONTRACT NO. 83873			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

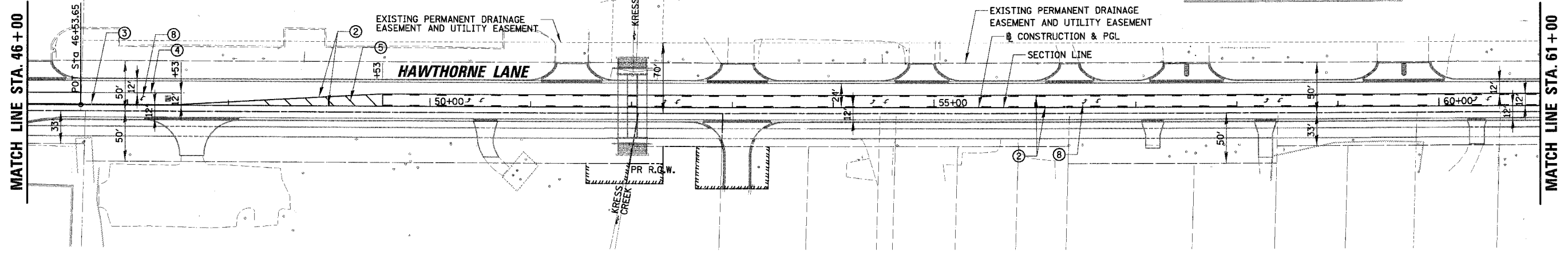
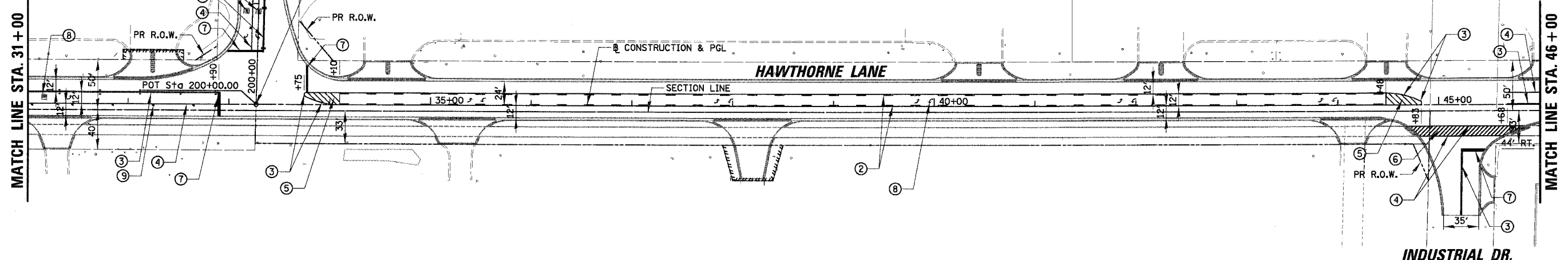


- LEGEND**
- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE)
  - ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW)
  - ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW) (2 @ 11" C-C)
  - ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE)
  - ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW)
  - ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE)
  - ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE)
  - ⑧ THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)
  - ⑨ SNOWPLOWABLE RAISED PAVEMENT MARKER (SEE SHEET 98)



SEE SHEET NO. 109  
POWIS RD.

HAWTHORNE LANE STA. 33+27.00 =  
POWIS ROAD STA. 200+00.00

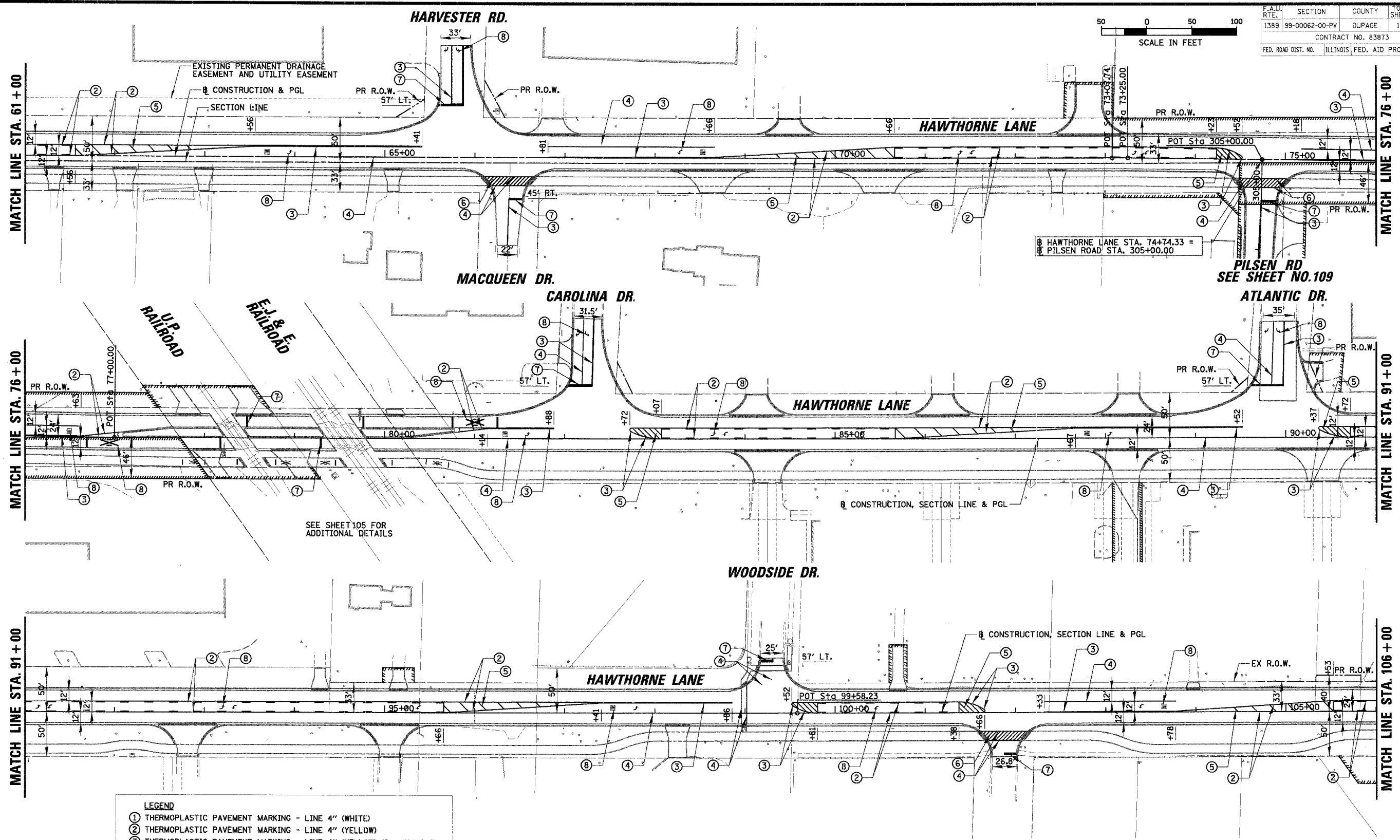
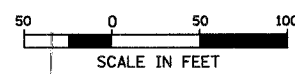


REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKING**  
**HAWTHORNE LANE**  
**STA. 19+40 TO STA. 61+00**  
 SCALE: 50'  
 DATE: 12/7/2006  
 DRAWN BY: PMM  
 DESIGN BY: BLL  
 CHECKED BY: JCS

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F.A.U. RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	107
CONTRACT NO. 63873				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**LEGEND**

- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE)
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW)
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW) (2 @ 11" C-C)
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE)
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW)
- ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE)
- ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE)
- ⑧ THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)
- ⑨ SNOWPLOWABLE RAISED PAVEMENT MARKER (SEE SHEET 98 )

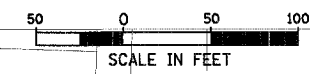
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKING**  
**HAWTHORNE LANE**  
**STA. 61+00 TO STA. 106+00**  
 SCALE: 50'  
 DATE: 1/5/2007  
 DRAWN BY: PMM  
 DESIGN BY: BLL  
 CHECKED BY: JGS

N:\westch\04479\04479.TBL

WILLOW CREEK RD.

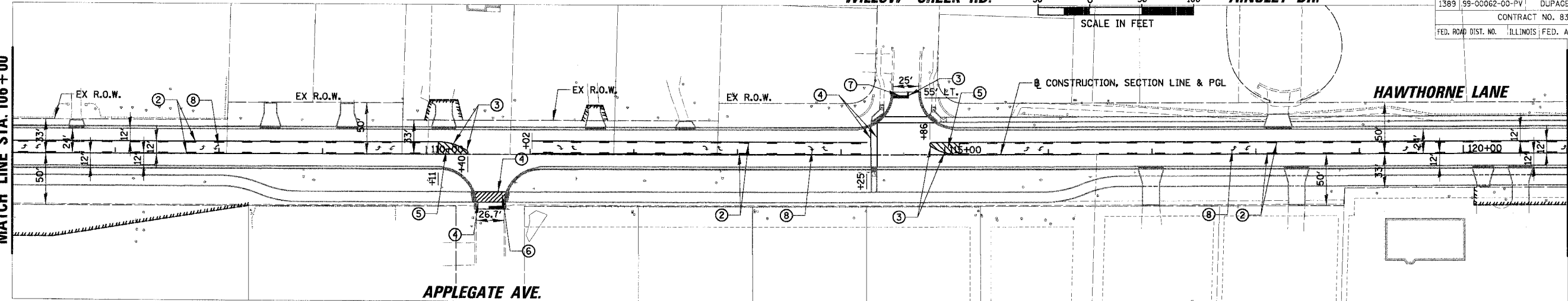
AINSLEY DR.



F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 83873				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

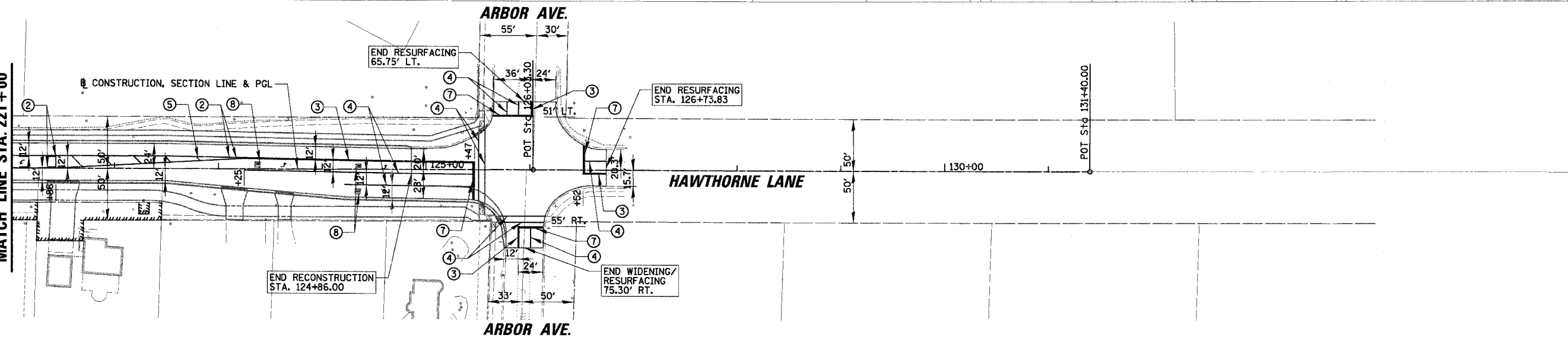
MATCH LINE STA. 106 + 00

MATCH LINE STA. 121 + 00



APPEGATE AVE.

MATCH LINE STA. 221 + 00



ARBOR AVE.

**LEGEND**

- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE)
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW)
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW) (2 @ 11" C-C)
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE)
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW)
- ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE)
- ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE)
- ⑧ THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)
- ⑨ SNOWPLOWABLE RAISED PAVEMENT MARKER (SEE SHEET 98 )

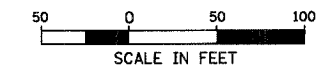
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKING**  
**HAWTHORNE LANE**  
**STA. 106 + 00 TO STA. 131 + 00**  
 SCALE: 50'  
 DATE: 1/5/2007  
 DRAWN BY: PMM  
 DESIGN BY: BLL  
 CHECKED BY: JGS

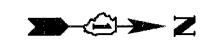


HAWTHORNE LANE

BLACKHAWK DRIVE



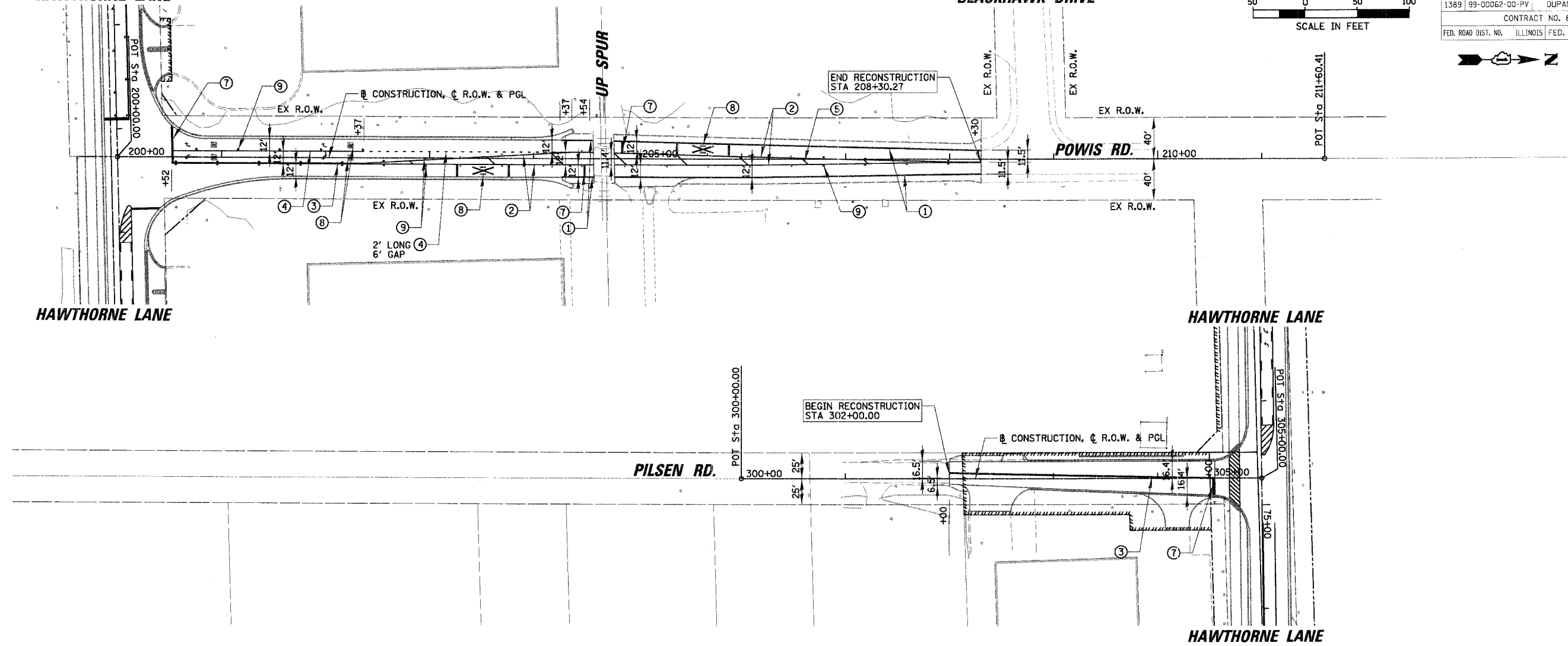
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	109
CONTRACT NO. 83873				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



HAWTHORNE LANE

HAWTHORNE LANE

HAWTHORNE LANE



**LEGEND**

- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE)
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW)
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW) (2 @ 11" C-C)
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE)
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW)
- ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE)
- ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE)
- ⑧ THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)
- ⑨ SNOWPLOWABLE RAISED PAVEMENT MARKER (SEE SHEET 98 )

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKING  
POWIS ROAD  
PILSEN ROAD**

SCALE: 50'  
DATE 12/7/2006

DRAWN BY PMM  
DESIGN BY BLL  
CHECKED BY JGS

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P.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-0062-00-PV	DUPAGE	199	110
CONTRACT NO. 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

## GENERAL NOTES

1. THE OWNER, CITY OF WEST CHICAGO SHALL BE NOTIFIED IN WRITING AT LEAST TWO (2) FULL WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS INCLUDING ALL ABOVE AND BELOW GRADE APPURTENANCES. THE CONTRACTOR SHALL REPAIR ALL DAMAGE TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AS WELL AS SUPERVISION/DIRECTION AND MEANS/METHODS OF CONSTRUCTION.
4. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS, WHICH ARE HEREBY MADE A PART HEREOF:
  - A. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", AS PREPARED BY IDOT, LATEST EDITION.
  - B. "THE NATIONAL ELECTRICAL CODE," LATEST EDITION.
  - C. CITY OF WEST CHICAGO "CODE OF ORDINANCES."
5. THE CONTRACT DRAWINGS AND SPECIFICATIONS ARE NOT INTENDED TO SHOW EVERY AND ALL DETAILS OF WORK TO BE PERFORMED OR EQUIPMENT TO BE SUPPLIED. THE INTENT OF THE CONTRACT DRAWINGS AND SPECIFICATIONS IS TO ILLUSTRATE THE CONCEPTUAL DESIGN AND LAYOUT. THE CONTRACTOR SHALL BE KNOWLEDGABLE AND REGULARLY ENGAGED IN THE TYPE OF WORK DESCRIBED BY THESE CONTRACT DRAWINGS AND SPECIFICATIONS AND SHALL BE RESPONSIBLE FOR UNDERSTANDING THEIR INTENT. ANY WORK TO BE PERFORMED OR ITEM OF EQUIPMENT TO BE SUPPLIED WHICH IS NOT SPECIFICALLY CALLED FOR BY THESE CONTRACT DRAWINGS AND SPECIFICATIONS, BUT WHICH IS NECESSARY TO PROVIDE A COMPLETE AND SUCCESSFUL WORKING SYSTEM SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF WORK AT NO ADDITIONAL COST TO THE OWNER.
6. THE WORK PERFORMED UNDER THIS CONTRACT SHALL IN NO WAY INTERFERE WITH THE NORMAL OPERATION OF ANY EXISTING UTILITY SERVICE. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ITEMS OF EQUIPMENT REQUIRED TO MAINTAIN SUCH NORMAL OPERATION AT NO ADDITIONAL COST TO THE OWNER. THE COST ASSOCIATED FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CONTRACT.
7. BEFORE INSTALLING LIGHT STANDARDS NEAR OVERHEAD OR UNDERGROUND UTILITIES CONTRACTOR SHALL CALL ALL AFFECTED UTILITY COMPANIES FOR LOCATION APPROVAL.
8. CONTRACTOR TO VERIFY LOCATION OF ALL UNDERGROUND UTILITIES BEFORE TRENCHING OR AUGERING.
9. CONTRACTOR SHALL SUBMIT SPECIFICATIONS, DRAWINGS AND CATALOG CUTS FOR ALL MATERIAL TO THE OWNER'S REPRESENTATIVE FOR REVIEW BEFORE ORDERING ANY MATERIALS FOR THE PROJECT.
10. LOCATION AND ORIENTATION OF CONTROLLER CABINET SHALL BE VERIFIED IN THE FIELD BY THE OWNER'S REPRESENTATIVE BEFORE FOUNDATION IS EXCAVATED OR POURED.
11. ALL LIGHT STANDARDS SHALL BE LOCATED AS SHOWN ON PLANS.
12. LUMINAIRES SHALL HAVE A TIGHT FIT ON LIGHT POLES TO THE OWNER'S SATISFACTION. THIS WORK SHALL INCLUDE FIELD ADJUSTING THE LUMINAIRE, WHICH WILL BE INCIDENTAL TO THE LUMINAIRE PAY ITEM.
13. ALL POLE HANDHOLE DOORS SHALL FACE AWAY FROM DIRECTION OF TRAFFIC.
14. PLACE A GROUND ROD 3/4" IN DIAMETER BY 10 FEET IN LENGTH APPROXIMATELY 2 FEET FROM EVERY POLE AND CONNECT TO THE POLE GROUNDING LUG VIA A #6 SOLID BARE COPPER WIRE WITH A MECHANICAL CONNECTION AT THE GROUND ROD.
15. THE CONTRACTOR SHALL COORDINATE PLACEMENT OF ALL UNDERGROUND DUCT AND CONDUITS PRIOR TO CONSTRUCTION OF PROPOSED PAVEMENT, DRIVEWAYS AND SIDEWALKS.
16. ALL UNIT DUCT SHALL BE 1 1/2" DIAMETER WITH 4-1/C #6, 1/C #6 GND XLP-TYPE USE CABLES (OR AS SHOWN ON PLANS).
17. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT STANDARD IS ERECTED.
18. ALL FEES ASSOCIATED WITH THE CONNECTION OF COM ED ELECTRIC SERVICE TO ANY OF THE LIGHTING CONTROLLERS SHALL BE INCLUDED IN THE PRICE BID "ELECTRIC UTILITY SERVICE CONNECTION."

## RELOCATE EXISTING LIGHTING UNIT NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK REQUIRED TO INSTALL THE NEW LIGHT POLE FOUNDATION AND GROUND ROD PRIOR TO THE RELOCATION OF THE EXISTING LIGHTING UNIT. THESE ITEMS WILL BE PAID FOR SEPARATELY.
2. IF THE LIGHTING UNIT MUST BE REMOVED FROM THE SITE PRIOR TO BEING RELOCATED, THE CONTRACTOR MUST NOTIFY THE OWNER'S REPRESENTATIVE AND VERIFY THAT THE UNIT DOES NOT HAVE ANY DEFICIENCIES. THE CONTRACTOR MUST THEN REMOVE THE LIGHTING UNIT FROM THE JOB SITE AND STORE THE POLE AT HIS SHOP UNTIL SUCH TIME THAT THE RELOCATION CAN TAKE PLACE. THE COSTS ASSOCIATED WITH REMOVING THE LIGHTING UNIT FROM THE SITE AND DELIVERING IT BACK TO THE SITE SHALL BE CONSIDERED INCIDENTAL TO THE PRICE BID FOR "RELOCATE EXISTING LIGHTING UNIT."
3. WORK ASSOCIATED WITH RECONNECTING RELOCATED LIGHT STANDARDS SHALL BE COVERED UNDER THE SPECIAL PROVISION FOR "ELECTRICAL CONNECTION TO EXISTING LIGHTING SYSTEM."

## ROADWAY LIGHTING CONTROLLER RELOCATION NOTES











1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE ROADWAY LIGHTING SYSTEM ON INDUSTRIAL DRIVE OPERATIONAL THROUGHOUT THE DURATION OF CONSTRUCTION. THIS LIGHTING SYSTEM IS CONTROLLED BY A 120/240V, 1Ø, 3 WIRE PEDESTAL MOUNTED CONTROLLER LOCATED ON THE SOUTHWEST CORNER OF INDUSTRIAL DRIVE AND HAWTHORNE LANE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A NEW CONCRETE FOUNDATION AND GROUNDING FIELD (AS SHOWN ON LIGHTING DETAILS-3). THIS WORK SHALL ALSO INCLUDE THE EXTENSION AND RECONNECTION OF ALL EXISTING BRANCH CIRCUIT WIRING, ELECTRIC SERVICE ENTRANCE CONDUCTORS AND RELATED CONDUITS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE EXISTING LIGHTING SYSTEM DIRECTLY AFFECTED BY THE RELOCATION OF THE INDUSTRIAL DRIVE LIGHTING CONTROLLER. THIS WORK SHALL BE PAID FOR UNDER THE CONTRACT UNIT PRICE BID FOR "MAINTENANCE OF EXISTING LIGHTING SYSTEM, COMPLETE."
4. THE CONTRACTOR SHALL PROVIDE A NEW PERMANENTLY MOUNTED PHOTOCELL, DRILLED AND TAPPED, ONTO THE UNDERSIDE OF THE EXISTING LIGHTING CONTROLLER IN ORDER TO MAINTAIN THE OPERATION OF THE EXISTING LIGHTING SYSTEM.
5. ALL WORK IDENTIFIED IN "ROADWAY LIGHTING CONTROLLER RELOCATION NOTES" NUMBER 1 AND 2 AS WELL AS THE WORK COVERED BY SECTION 845.02 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (SSRBC) SHALL BE INCLUDED IN THE PRICE BID FOR "REMOVE AND RELOCATE EXISTING LIGHTING CONTROLLER." SECTIONS 845.03 AND 845.05 IN THE SSRBC SHALL BE COVERED BY THE PRICE BID FOR "REMOVAL OF ELECTRIC SERVICE INSTALLATION" AND "REMOVAL OF LIGHTING CONTROLLER FOUNDATION" RESPECTIVELY.

## SUMMARY OF QUANTITIES

CODE NO.	DESCRIPTION	UNIT	QUANTITY
80400100	ELECTRIC SERVICE INSTALLATION	EACH	4
81000700	CONDUIT IN TRENCH, 2 1/2" DIA. GALVANIZED STEEL	FOOT	610
81900200	TRENCH & BACKFILL FOR ELECTRICAL WORK	FOOT	9500
82500530	LIGHTING CONTROLLER CB-RCS-100 AMP-240 VOLT	EACH	4
83006500	LIGHT POLE, ALUMINUM, 30 FT. M.H., 12 FT. MAST ARM	EACH	60
83007600	LIGHT POLE, ALUMINUM, 35 FT. M.H., 15 FT. MAST ARM	EACH	21
83600200	LIGHT POLE FOUNDATION, CONCRETE, 24" DIAMETER	FOOT	729
83600215 *	LIGHT POLE FOUNDATION, CONCRETE, 24" DIAMETER, OFFSET	FOOT	108
83800105	BREAKAWAY DEVICE, TRANSFORMER BASE, 11.5 INCH, BOLT CIRCLE	EACH	81
84200700	LIGHTING FOUNDATION REMOVAL	EACH	7
84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	6
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1
84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1
X0321478 *	MAINTENANCE OF EXISTING LIGHTING SYSTEM, COMPLETE	LSUM	1
X8950077 *	REMOVE AND RELOCATE EXISTING LIGHTING CONTROLLER	EACH	1
XX000876 *	LUMINAIRE, METAL HALIDE, HORIZONTAL MOUNT, 250 WATT	EACH	81
*	LUMINAIRE, METAL HALIDE, VERTICAL MOUNT, 50 WATT	EACH	37
*	ELECTRICAL CONNECTION TO EXISTING LIGHTING SYSTEM	EACH	7
*	UNIT DUCT, 1 1/2" HDPE, WITH 4/C #6, 1/C #6 GND XLP TYPE USE, 600V	FOOT	11000

\* REFER TO PLAN DRAWINGS OR SPECIAL PROVISIONS FOR DETAILS

## LEGEND

	1 PROPOSED 30' ALUMINUM POLE WITH A 250 WATT MCIII COBRA HEAD TYPE LUMINAIRE ON A 12' MAST ARM (REFER TO LIGHTING DETAIL-2 FOR MODEL INFORMATION)
	2 PROPOSED 35' ALUMINUM POLE WITH A 250 WATT MCIII COBRA HEAD TYPE LUMINAIRE ON A 15' MAST ARM (REFER TO LIGHTING DETAIL-2 FOR MODEL INFORMATION)
	3 PROPOSED 30' ALUMINUM POLE WITH A 250 WATT MCIII COBRA HEAD TYPE LUMINAIRE ON A 12' MAST ARM AND 50 WATT ORNAMENTAL PEDESTRIAN LUMINAIRE (REFER TO LIGHTING DETAIL-2 FOR MODEL INFORMATION)
	4 PROPOSED 35' ALUMINUM POLE WITH A 250 WATT MCIII COBRA HEAD TYPE LUMINAIRE ON A 15' MAST ARM AND A 50 WATT ORNAMENTAL PEDESTRIAN LUMINAIRE (REFER TO LIGHTING DETAIL-2 FOR MODEL INFORMATION)
	EXISTING COM ED LIGHT POLE OR CITY OWNED LIGHT POLE (REFER TO PLANS)
	PROPOSED LIGHTING CONTROLLER
	PROPOSED COM ED SERVICE DROP LOCATION
	4-1/C #6 AND 1/C #6 GROUND XLP-TYPE USE IN 1 1/2" UNIT DUCT (OR AS SHOWN ON PLANS)
	PROPOSED UNIT DUCT IN RIGID GALVANIZED STEEL (RGS) CONDUIT PUSHED UNDER PAVEMENT (SIZES AS SHOWN)
	PROPOSED CABLES IN RIGID GALVANIZED STEEL CONDUIT (SIZES AS SHOWN ON PLANS)

REVISIONS	
NAME	DATE

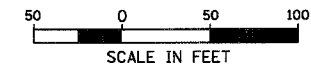
## ILLINOIS DEPARTMENT OF TRANSPORTATION LIGHTING GENERAL NOTES & QUANTITIES HAWTHORNE LANE

SCALE: 50'  
DATE: 1/8/2007

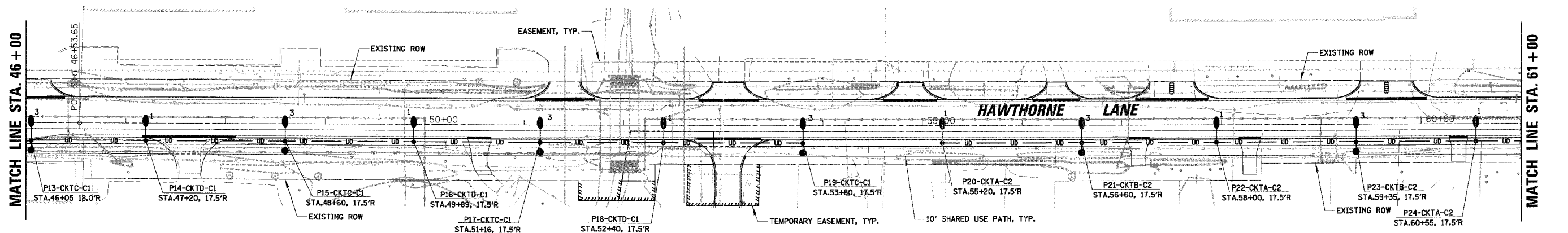
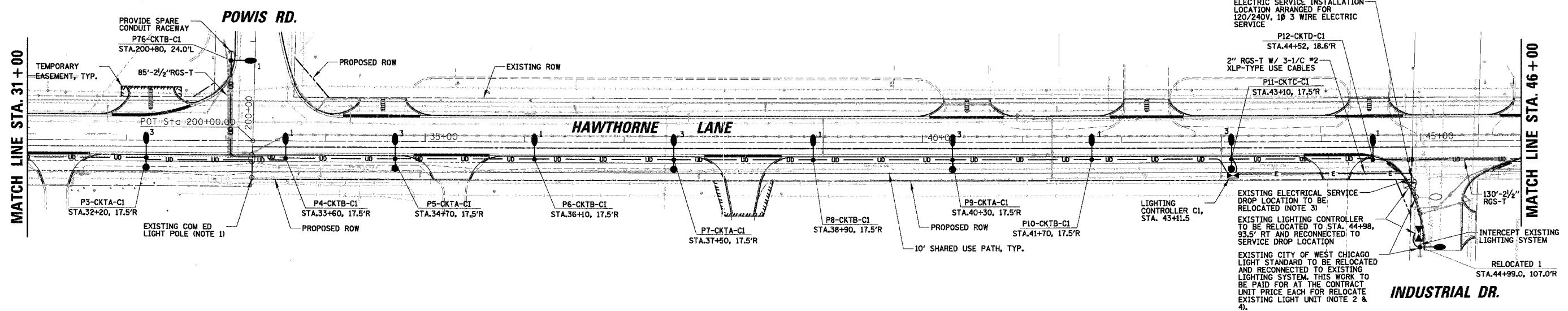
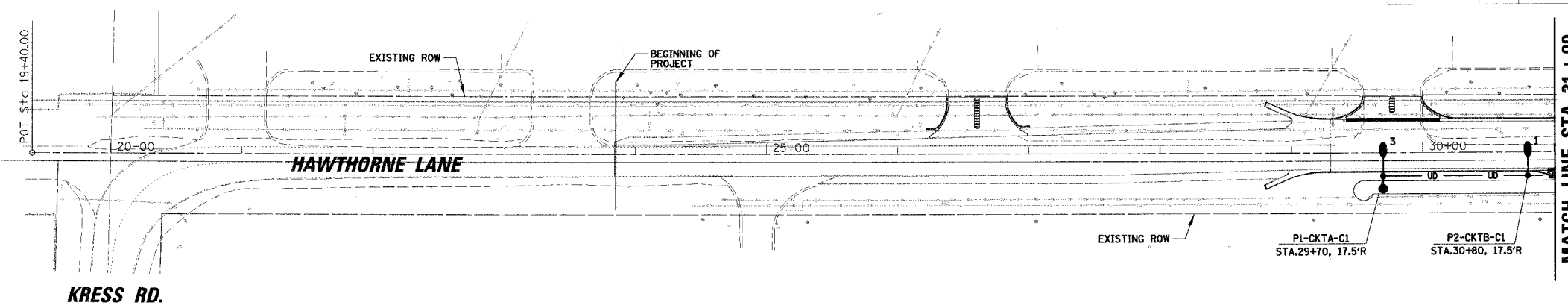
DRAWN BY GAH  
DESIGN BY GAH  
CHECKED BY JPC

**LEGEND**

- 1 PROPOSED 30' ALUMINUM POLE WITH A 250 WATT MCIII COBRA HEAD TYPE LUMINAIRE ON A 12' MAST ARM (REFER TO LIGHTING DETAIL-2 FOR MODEL INFORMATION)
- 2 PROPOSED 35' ALUMINUM POLE WITH A 250 WATT MCIII COBRA HEAD TYPE LUMINAIRE ON A 15' MAST ARM (REFER TO LIGHTING DETAIL-2 FOR MODEL INFORMATION)
- 3 PROPOSED 30' ALUMINUM POLE WITH A 250 WATT MCIII COBRA HEAD TYPE LUMINAIRE ON A 12' MAST ARM AND 50 WATT ORNAMENTAL PEDESTRIAN LUMINAIRE (REFER TO LIGHTING DETAIL-2 FOR MODEL INFORMATION)
- 4 PROPOSED 35' ALUMINUM POLE WITH A 250 WATT MCIII COBRA HEAD TYPE LUMINAIRE ON A 15' MAST ARM AND A 50 WATT ORNAMENTAL PEDESTRIAN LUMINAIRE (REFER TO LIGHTING DETAIL-2 FOR MODEL INFORMATION)
- EXISTING COM ED LIGHT POLE OR CITY OWNED LIGHT POLE (REFER TO PLANS)
- PROPOSED LIGHTING CONTROLLER
- PROPOSED COM ED SERVICE DROP LOCATION
- 4-1/C #6 AND 1/C #6 GROUND XLP-TYPE USE IN 1 1/2" UNIT DUCT (OR AS SHOWN ON PLANS)
- PROPOSED UNIT DUCT IN RIGID GALVANIZED STEEL (RGS) CONDUIT PUSHED UNDER PAVEMENT (SIZES AS SHOWN)
- PROPOSED CABLES IN RIGID GALVANIZED STEEL CONDUIT (SIZES AS SHOWN ON PLANS)



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	111
CONTRACT NO. 83873				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**CAUTION**  
NOTICE TO CONTRACTOR

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**RESTORATION OF WORK AREA:**

RESTORATION OF THE LIGHTING/ELECTRICAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

- NOTES:**
- EXISTING COM ED POLE WITH LUMINAIRE MOUNTED ON MAST ARM SHALL BE REMOVED BY COM ED AFTER THE PROPOSED LIGHTING SYSTEM HAS BEEN PUT INTO OPERATION. THIS WORK IS TO BE COORDINATED BY THE CONTRACTOR.
  - CONTRACTOR SHALL REMOVE ALL EXISTING LIGHT FOUNDATIONS FROM REMOVED/RELOCATED LIGHT STANDARDS AND DISPOSE.
  - CONTRACTOR TO COORDINATE RECONNECTION OF RELOCATED LIGHTING CONTROLLER WITH COM ED (REFER TO I15 FOR DETAILS). CONTRACTOR ALSO TO COORDINATE THE PROPOSED SERVICE DROP LOCATION FOR LIGHTING CONTROLLER \*C1 WITH COM ED.
  - EXISTING PHOTOCELL IS LOCATED ON EXISTING LIGHT STANDARD TO BE RELOCATED. CONTRACTOR SHALL PROVIDE NEW PHOTOCELL MOUNTED TO CONTROLLER (REFER TO #LDT1 FOR DETAILS).

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

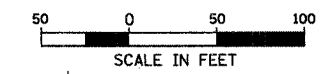
**LIGHTING PLAN**  
**HAWTHORNE LANE**  
**STA. 19+40 TO STA. 61+00**

SCALE: 50'  
DATE: 12/7/2006

DRAWN BY: GAH  
DESIGN BY: GAH  
CHECKED BY: JPC

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F.A.U. RY	SECTION	COUNTY	TOTAL SHEETS	NO.
1389	99-00062-00-PV	DUPAGE	199	112
CONTRACT NO. 83873				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



MATCH LINE STA. 61+00

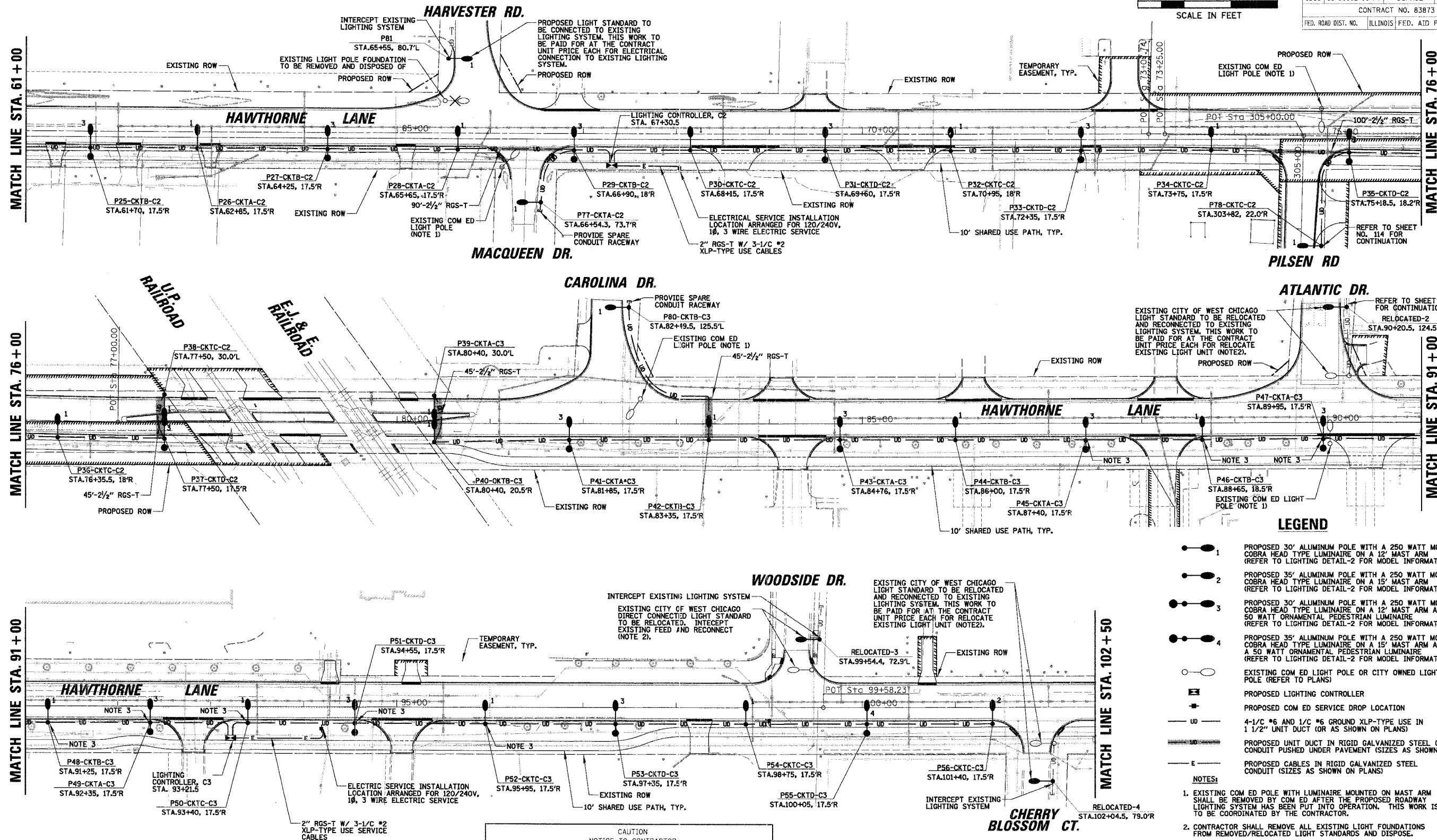
MATCH LINE STA. 76+00

MATCH LINE STA. 76+00

MATCH LINE STA. 91+00

MATCH LINE STA. 91+00

MATCH LINE STA. 102+50



PILSEN RD

CAROLINA DR.

WOODSIDE DR.

CHERRY BLOSSOM CT.

**LEGEND**

- 1 PROPOSED 30' ALUMINUM POLE WITH A 250 WATT MCIII COBRA HEAD TYPE LUMINAIRE ON A 12' MAST ARM (REFER TO LIGHTING DETAIL-2 FOR MODEL INFORMATION)
- 2 PROPOSED 35' ALUMINUM POLE WITH A 250 WATT MCIII COBRA HEAD TYPE LUMINAIRE ON A 15' MAST ARM (REFER TO LIGHTING DETAIL-2 FOR MODEL INFORMATION)
- 3 PROPOSED 30' ALUMINUM POLE WITH A 250 WATT MCIII COBRA HEAD TYPE LUMINAIRE ON A 12' MAST ARM AND 50 WATT ORNAMENTAL PEDESTRIAN LUMINAIRE (REFER TO LIGHTING DETAIL-2 FOR MODEL INFORMATION)
- 4 PROPOSED 35' ALUMINUM POLE WITH A 250 WATT MCIII COBRA HEAD TYPE LUMINAIRE ON A 15' MAST ARM AND A 50 WATT ORNAMENTAL PEDESTRIAN LUMINAIRE (REFER TO LIGHTING DETAIL-2 FOR MODEL INFORMATION)
- EXISTING COM ED LIGHT POLE OR CITY OWNED LIGHT POLE (REFER TO PLANS)
- PROPOSED LIGHTING CONTROLLER
- PROPOSED COM ED SERVICE DROP LOCATION
- 4-1/2" #6 AND 1/2" #6 GROUND XLP-TYPE USE IN 1 1/2" UNIT DUCT (OR AS SHOWN ON PLANS)
- PROPOSED UNIT DUCT IN RIGID GALVANIZED STEEL (RGS) CONDUIT PUSHED UNDER PAVEMENT (SIZES AS SHOWN)
- PROPOSED CABLES IN RIGID GALVANIZED STEEL CONDUIT (SIZES AS SHOWN ON PLANS)

**NOTES:**

1. EXISTING COM ED POLE WITH LUMINAIRE MOUNTED ON MAST ARM SHALL BE REMOVED BY COM ED AFTER THE PROPOSED ROADWAY LIGHTING SYSTEM HAS BEEN PUT INTO OPERATION. THIS WORK IS TO BE COORDINATED BY THE CONTRACTOR.
2. CONTRACTOR SHALL REMOVE ALL EXISTING LIGHT FOUNDATIONS FROM REMOVED/RELOCATED LIGHT STANDARDS AND DISPOSE.
3. LIGHT STANDARDS P45-P52 SHALL HAVE OFFSET CONCRETE FOUNDATIONS (REFER TO LIGHTING DETAIL-3).

**CAUTION**  
NOTICE TO CONTRACTOR

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**RESTORATION OF WORK AREA:**

RESTORATION OF THE LIGHTING/ELECTRICAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

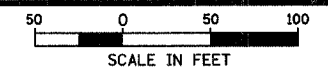
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**LIGHTING PLAN**  
**HAWTHORNE LANE**  
**STA. 61+00 TO STA. 102+50**

SCALE: 50'  
DATE: 1/5/2007

DRAWN BY: GAH  
DESIGN BY: GAH  
CHECKED BY: JPC

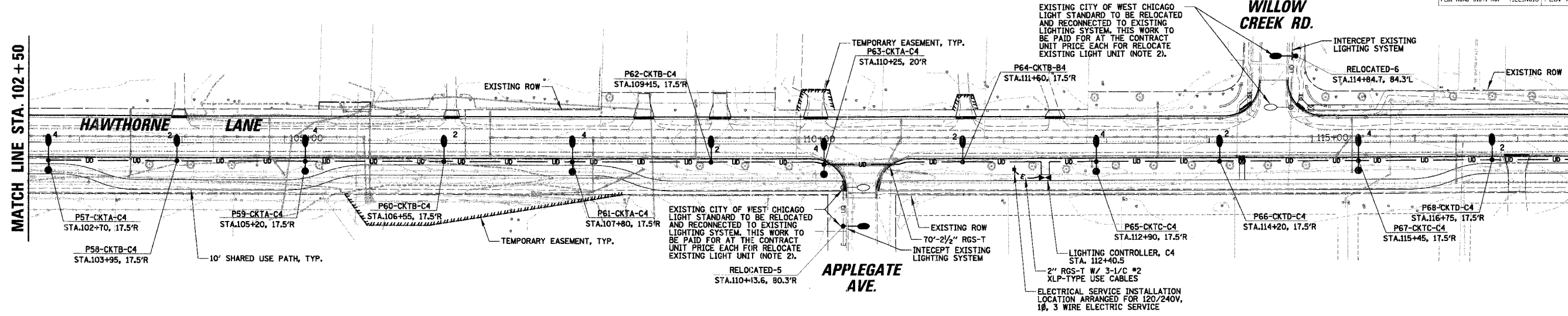
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	113
CONTRACT NO. 83873				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

MATCH LINE STA. 102 + 50

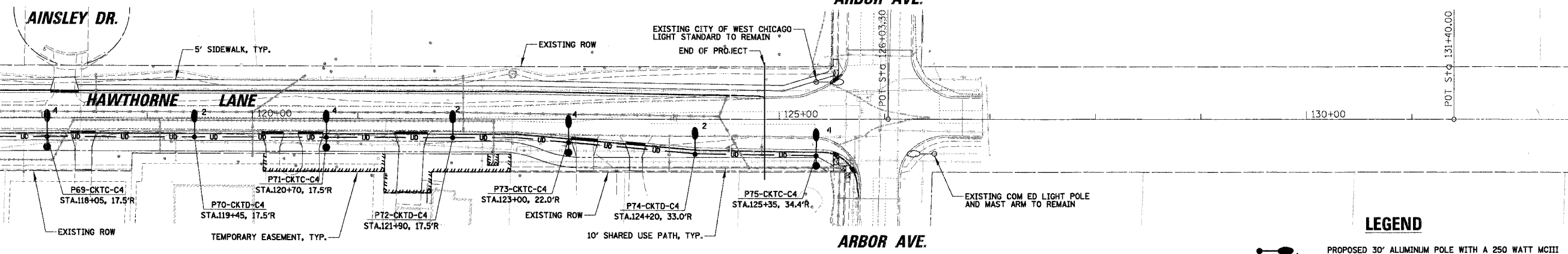
MATCH LINE STA. 117 + 50



MATCH LINE STA. 117 + 50

ARBOR AVE.

ARBOR AVE.



**LEGEND**

- 1. PROPOSED 30' ALUMINUM POLE WITH A 250 WATT MCIII COBRA HEAD TYPE LUMINAIRE ON A 12' MAST ARM (REFER TO LIGHTING DETAIL-2 FOR MODEL INFORMATION)
- 2. PROPOSED 35' ALUMINUM POLE WITH A 250 WATT MCIII COBRA HEAD TYPE LUMINAIRE ON A 15' MAST ARM (REFER TO LIGHTING DETAIL-2 FOR MODEL INFORMATION)
- 3. PROPOSED 30' ALUMINUM POLE WITH A 250 WATT MCIII COBRA HEAD TYPE LUMINAIRE ON A 12' MAST ARM AND 50 WATT ORNAMENTAL PEDESTRIAN LUMINAIRE (REFER TO LIGHTING DETAIL-2 FOR MODEL INFORMATION)
- 4. PROPOSED 35' ALUMINUM POLE WITH A 250 WATT MCIII COBRA HEAD TYPE LUMINAIRE ON A 15' MAST ARM AND A 50 WATT ORNAMENTAL PEDESTRIAN LUMINAIRE (REFER TO LIGHTING DETAIL-2 FOR MODEL INFORMATION)
- EXISTING COM ED LIGHT POLE OR CITY OWNED LIGHT POLE (REFER TO PLANS)
- PROPOSED LIGHTING CONTROLLER
- PROPOSED COM ED SERVICE DROP LOCATION
- 4-1/C #6 AND 1/C #6 GROUND XLP-TYPE USE IN 1 1/2" UNIT DUCT (OR AS SHOWN ON PLANS)
- PROPOSED UNIT DUCT IN RIGID GALVANIZED STEEL (RGS) CONDUIT PUSHED UNDER PAVEMENT (SIZES AS SHOWN)
- PROPOSED CABLES IN RIGID GALVANIZED STEEL CONDUIT (SIZES AS SHOWN ON PLANS)

**NOTES:**

1. EXISTING COM ED POLE WITH LUMINAIRE MOUNTED ON MAST ARM SHALL BE REMOVED BY COM ED AFTER THE PROPOSED LIGHTING SYSTEM HAS BEEN PUT INTO OPERATION. THIS WORK IS TO BE COORDINATED BY THE CONTRACTOR.
2. CONTRACTOR SHALL REMOVE ALL EXISTING LIGHT FOUNDATIONS FROM REMOVED/RELOCATED LIGHT STANDARDS AND DISPOSE.

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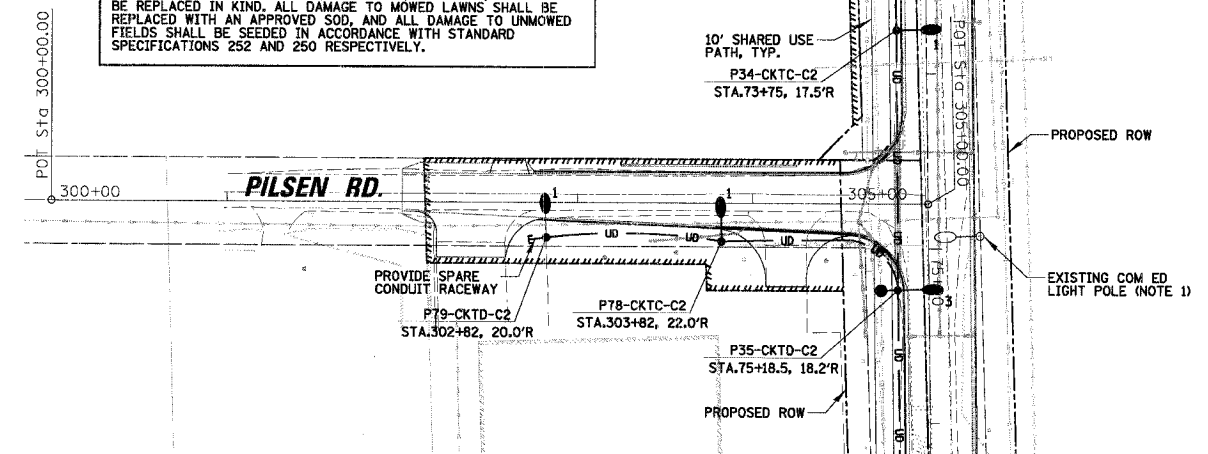
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**LIGHTING PLAN**  
**HAWTHORNE LANE**  
**STA. 102 + 50 TO STA. 131 + 40**  
 SCALE: 50'  
 DATE 1/5/2007  
 DRAWN BY GAH  
 DESIGN BY GAH  
 CHECKED BY JPC

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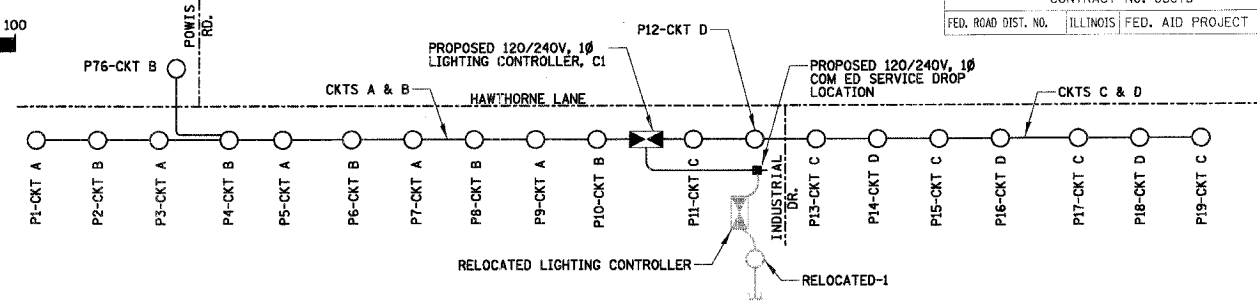
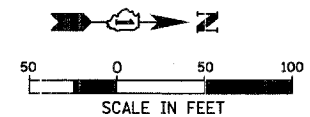
F.A.U. RT. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	114
CONTRACT NO. 83873				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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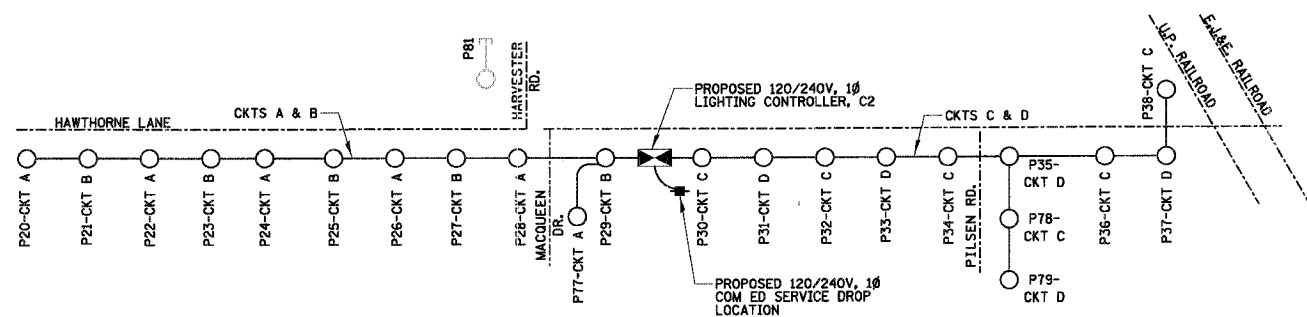


**HAWTHORNE LANE  
 (REFER TO LIGHTING PLAN  
 SHEETS FOR CONTINUATION)**

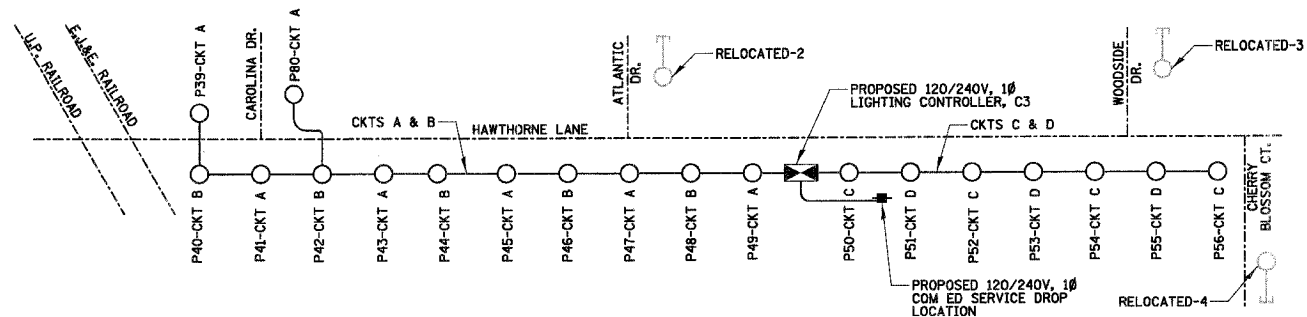
**HAWTHORNE LANE  
 (REFER TO LIGHTING PLAN  
 SHEETS FOR CONTINUATION)**



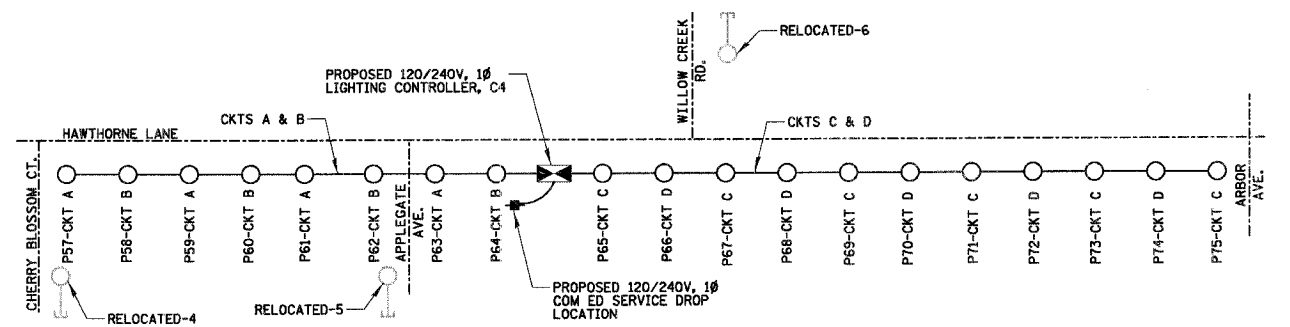
**ONE LINE CIRCUIT DIAGRAM CONTROLLER C1**  
 N.T.S.



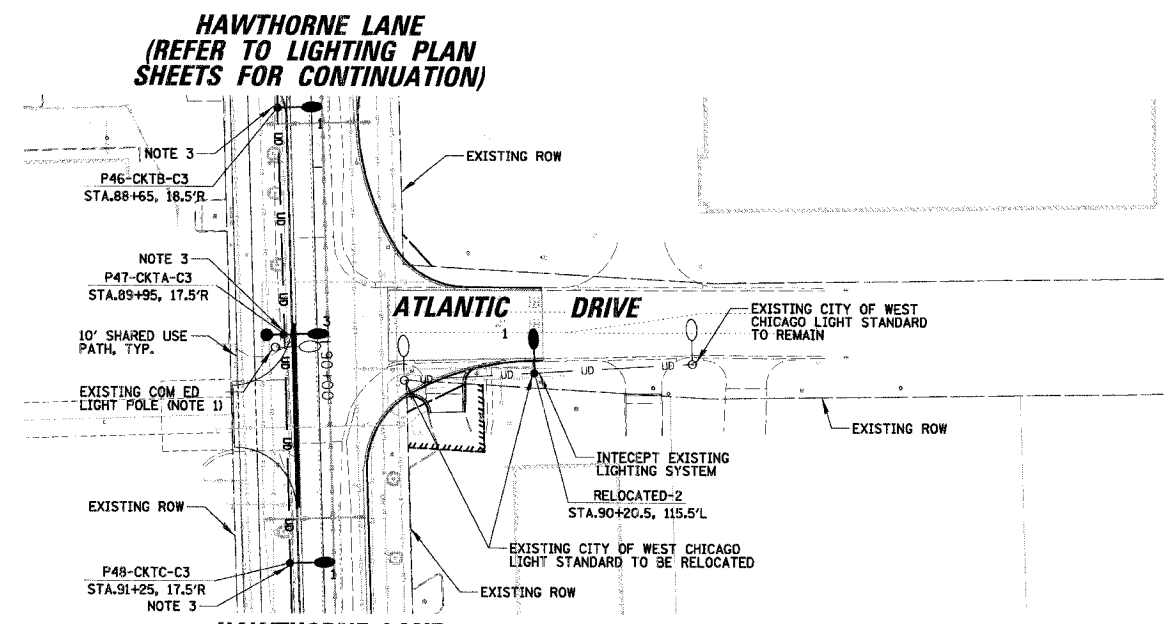
**ONE LINE CIRCUIT DIAGRAM CONTROLLER C2**  
 N.T.S.



**ONE LINE CIRCUIT DIAGRAM CONTROLLER C3**  
 N.T.S.



**ONE LINE CIRCUIT DIAGRAM CONTROLLER C4**  
 N.T.S.



**HAWTHORNE LANE  
 (REFER TO LIGHTING PLAN  
 SHEETS FOR CONTINUATION)**

**HAWTHORNE LANE  
 (REFER TO LIGHTING PLAN  
 SHEETS FOR CONTINUATION)**

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  - CONTRACTOR SHALL REMOVE ALL EXISTING LIGHT FOUNDATIONS FROM REMOVED/RELOCATED LIGHT STANDARDS AND DISPOSE.
  - LIGHT STANDARDS P42-P52 SHALL HAVE OFFSET CONCRETE FOUNDATIONS (REFER TO LIGHTING DETAIL-3).

- LEGEND**
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  - 2 PROPOSED 35' ALUMINUM POLE WITH A 250 WATT MCIII COBRA HEAD TYPE LUMINAIRE ON A 15' MAST ARM (REFER TO LIGHTING DETAIL-2 FOR MODEL INFORMATION)
  - 3 PROPOSED 30' ALUMINUM POLE WITH A 250 WATT MCIII COBRA HEAD TYPE LUMINAIRE ON A 12' MAST ARM AND 50 WATT ORNAMENTAL PEDESTRIAN LUMINAIRE (REFER TO LIGHTING DETAIL-2 FOR MODEL INFORMATION)
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  - EXISTING COM ED LIGHT POLE OR CITY OWNED LIGHT POLE (REFER TO PLANS)
  - PROPOSED LIGHTING CONTROLLER
  - PROPOSED COM ED SERVICE DROP LOCATION
  - 4-1/2" #6 AND 1/2" #6 GROUND XLP-TYPE USE IN 1 1/2" UNIT DUCT (OR AS SHOWN ON PLANS)
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  - PROPOSED CABLES IN RIGID GALVANIZED STEEL CONDUIT (SIZES AS SHOWN ON PLANS)

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- LEGEND**
- ROADWAY LIGHTPOLE
  - ELECTRIC CABLES IN CONDUIT
  - LIGHTING CONTROLLER
  - ELECTRIC SERVICE INSTALLATION
  - POLE NUMBER
  - CIRCUIT IDENTIFIER

REVISIONS	
NAME	DATE

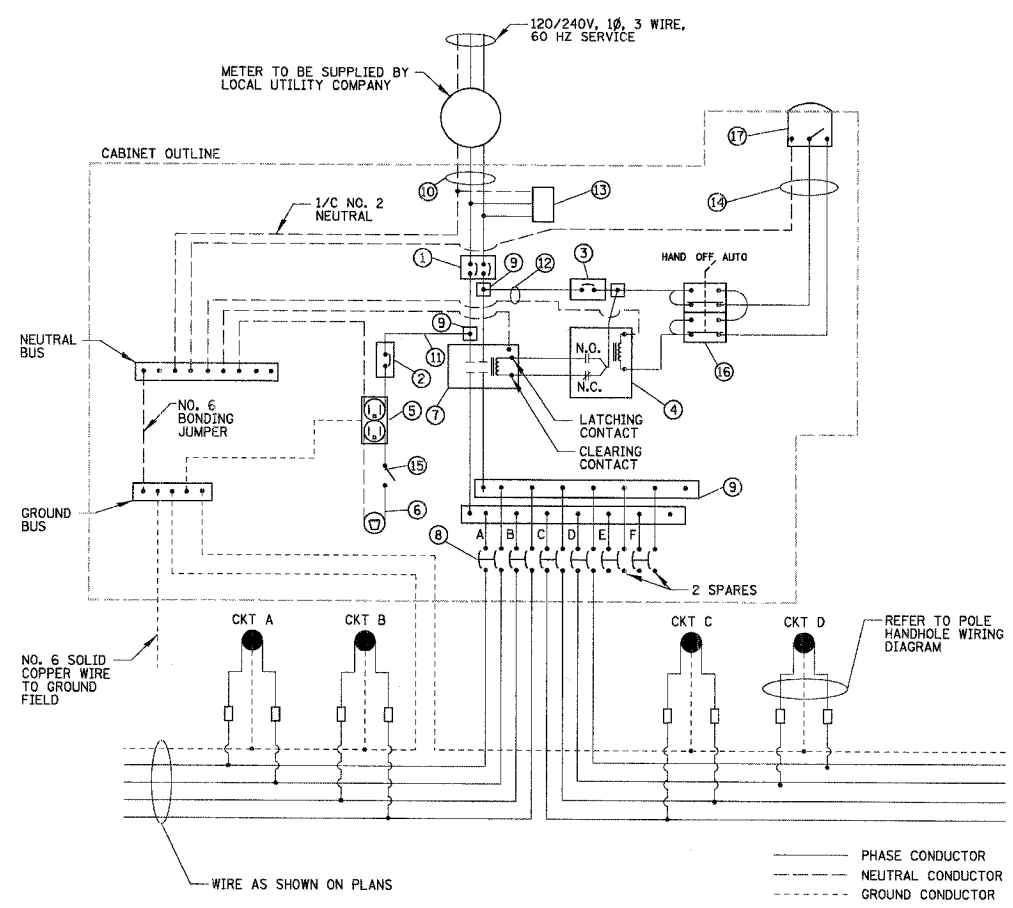
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**LIGHTING PLAN FOR  
 POWIS ROAD - PILSEN ROAD  
 AND ONE LINE DIAGRAMS**  
 SCALE: 50'  
 DATE 12/7/2006  
 DRAWN BY GAH  
 DESIGN BY GAH  
 CHECKED BY JPC

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ITEM	SPECIFICATION	MANUFACTURER/MODEL NO. OR EQUAL
1 MAIN CIRCUIT BREAKER	100 AMPERE, 2 P, 240 V RATING, 22K AIC (NOTE 3)	SIEMENS NO. ED62B100
2 LAMPHOLDER CIRCUIT BREAKER	15 AMPERE, 1 P, 120 V RATING, 22K AIC	SIEMENS NO. ED41B015
3 PHOTOELECTRIC CONTROL CIRCUIT BREAKER	15 AMPERE, 1 P, 120 V RATING, 22K AIC	SIEMENS NO. ED41B015
4 AUXILIARY RELAY	120 V OPERATED SPST 60 HZ COIL 600V NORMALLY OPEN CONTACTS	MAGNECRAFT NO. W389ACX-9
5 CABINET RECEPTACLE AND BOX	COMMERCIAL GRADE GFCI 15A/120V, MOUNTED IN A WEATHERPROOF CAST ALUMINUM SINGLE GANG BOX WITH WEATHERPROOF COVER	RECEPTACLE: LEVITON NO. 8599 BOX: APPLETON NO. WSM150 COVER: APPLETON NO. WHG1
6 CABINET LIGHT AND BOX	120V WEATHERPROOF LAMPHOLDER MOUNTED IN A CAST ALUMINUM J BOX & EXT. GRADE 100W LAMP	LIGHT & BOX: RAB NO. VX100DG
7 CONTACTOR	100 AMPERE, 2 POLE, 120 V COIL, MECH. HELD	SQUARE D NO. 8903 S00 10 V02
8 BRANCH LINE CIRCUIT BREAKERS	6- 30 AMPERE, 2 P, 240 V RATING, 22K AIC	SIEMENS NO. ED42B030
9 POWER DISTRIBUTION BLOCK	600 VOLT, INSULATED, SIZE AS REQUIRED	MARATHON
10 SERVICE CABLES	3-600V (XLP-TYPE USE) NO. 2	N/A
11 LAMPHOLDER WIRE	2-600V XLP NO. 12	N/A
12 CONTROL WIRE	2-600V XLP NO. 12	N/A
13 SURGE ARRESTOR	10 K AMPERE RATING AT 750 VOLTS, 1 PHASE	SQUARE D NO. SDSA 1175
14 PHOTOELECTRIC CONTROL WIRE	3-600V XLP NO. 12	N/A
15 DOOR SWITCH	20A/120V, DOOR MOUNTED SNAP ACTION TYPE PLUNGER SWITCH	OMRON NO. A-206Q-K
16 HAND-AUTO-OFF CONTROL SWITCH	20A, 3 POS. IN INDUSTRIAL DUTY ENCLOSURE	SQUARE D NO. 9001 KYK 111
17 PHOTOCELL	120V, MTD. ON CABINET, DELAY TYPE, SPST-NC	FISHER PIERCE NO. FFFA-105
18 GROUND AND NEUTRAL BUS	600V, ALUMINUM ALLOY, SIZE AS REQUIRED	ILSCO NO. NB-120

- NOTES:
- ALL ITEMS LISTED IN LIGHTING CONTROLLER COMPONENT SCHEDULE SHALL BE CONSIDERED INCIDENTAL TO THE PRICE BID FOR "LIGHTING CONTROLLER" INCLUDING CABINET AND FOUNDATION.
  - THE LIGHTING CONTROLLER TOGETHER WITH ALL OF ITS COMPONENTS SHALL BE UL LISTED AS AN "ENCLOSED INDUSTRIAL CONTROL PANEL" UNDER UL508A.
  - CONNECTION OF SURGE ARRESTOR TO LINE SIDE OF MAIN CIRCUIT BREAKER SHALL NOT BE "DOUBLE LUGGED."

**TYPICAL LIGHTING CONTROLLER COMPONENT SCHEDULE**  
N.T.S.



**TYPICAL LIGHTING CONTROLLER WIRING DETAIL**  
N.T.S.

CIRCUIT ID	50W PEDESTRIAN LUMINAIRE		250W ROADWAY LUMINAIRE		TOTAL CIRCUIT LOAD (WATTS)
	QTY.	LOAD/LUMINAIRE (WATTS)	QTY.	LOAD/LUMINAIRE (WATTS)	
A	5	68W	5	291W	1795W
B	-	68W	6	291W	1746W
C	5	68W	5	291W	1795W
D	-	68W	4	291W	1164W
TOTAL	10	N/A	20	N/A	6500W

**CONTROLLER #C1 LIGHTING CIRCUIT WATTAGE LOADS**

CIRCUIT ID	50W PEDESTRIAN LUMINAIRE		250W ROADWAY LUMINAIRE		TOTAL CIRCUIT LOAD (WATTS)
	QTY.	LOAD/LUMINAIRE (WATTS)	QTY.	LOAD/LUMINAIRE (WATTS)	
A	5	68W	6	291W	2086W
B	-	68W	6	291W	1746W
C	-	68W	4	291W	1164W
D	3	68W	3	291W	1077W
TOTAL	8	N/A	19	N/A	6073W

**CONTROLLER #C3 LIGHTING CIRCUIT WATTAGE LOADS**

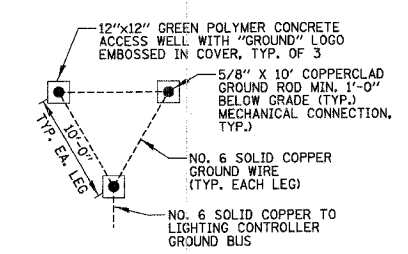
CIRCUIT ID	50W PEDESTRIAN LUMINAIRE		250W ROADWAY LUMINAIRE		TOTAL CIRCUIT LOAD (WATTS)
	QTY.	LOAD/LUMINAIRE (WATTS)	QTY.	LOAD/LUMINAIRE (WATTS)	
A	-	68W	6	291W	1746W
B	5	68W	5	291W	1795W
C	-	68W	6	291W	1746W
D	4	68W	5	291W	1727W
TOTAL	9	N/A	22	N/A	7014W

**CONTROLLER #C2 LIGHTING CIRCUIT WATTAGE LOADS**

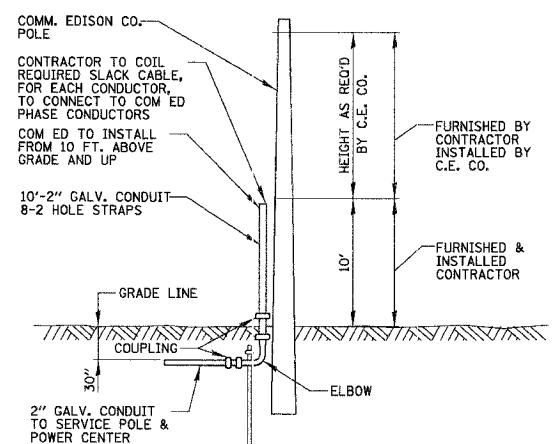
CIRCUIT ID	50W PEDESTRIAN LUMINAIRE		250W ROADWAY LUMINAIRE		TOTAL CIRCUIT LOAD (WATTS)
	QTY.	LOAD/LUMINAIRE (WATTS)	QTY.	LOAD/LUMINAIRE (WATTS)	
A	4	68W	4	291W	1436W
B	-	68W	4	291W	1164W
C	6	68W	6	291W	2154W
D	-	68W	5	291W	1455W
TOTAL	10	N/A	19	N/A	6209W

**CONTROLLER #C4 LIGHTING CIRCUIT WATTAGE LOADS**

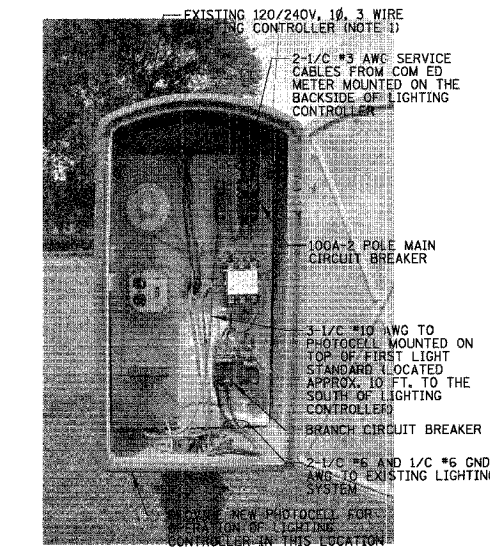
NOTE:  
ALL CONDUCTORS IN THE UNIT DUCT RUNS SHALL HAVE COLOR CODED INSULATION THROUGHOUT THE ENTIRE LENGTH OF THE CONDUCTOR. THE COLOR IDENTIFICATION FOR THE SYSTEM GROUND SHALL BE GREEN. THE PHASE CONDUCTORS SHALL BE PER IDOT STANDARD 1066.02 (A).



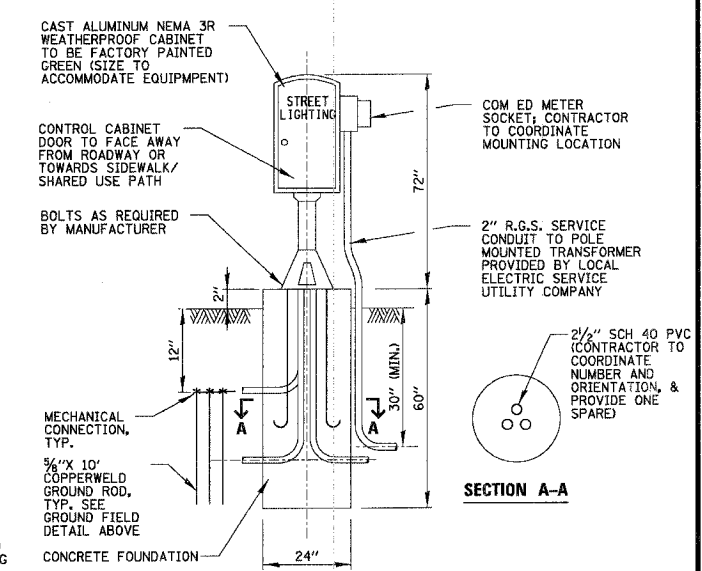
**GROUND FIELD DETAIL (TYP.)**  
N.T.S.



**COM ED OVERHEAD CONNECTION POLE**  
N.T.S.



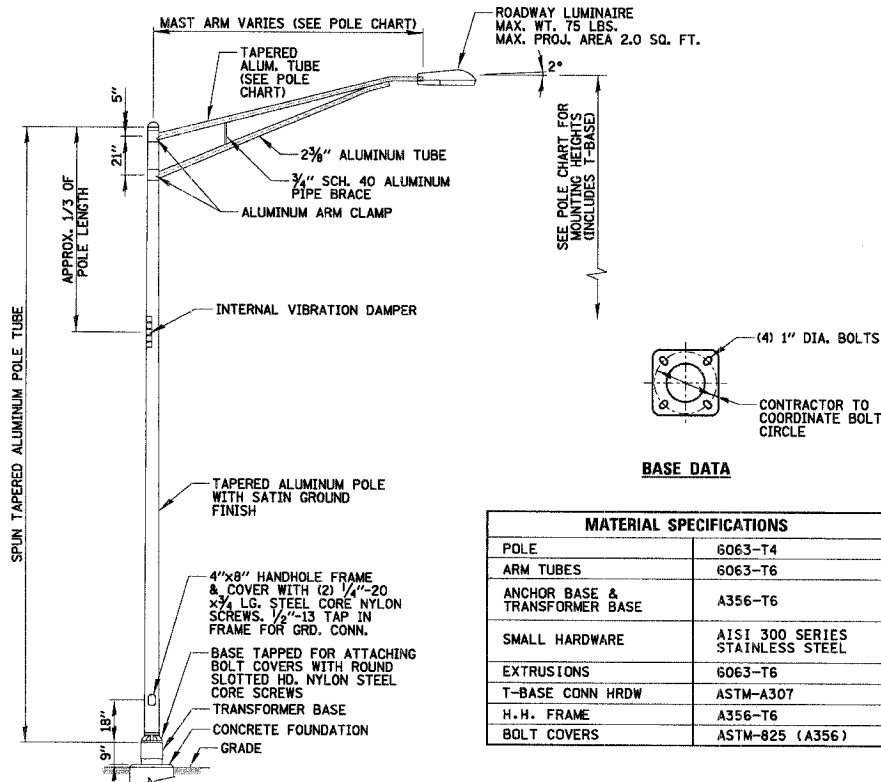
**EXISTING LIGHTING CONTROLLER TO BE RELOCATED**  
N.T.S.



**TYPICAL LIGHTING CONTROLLER CABINET AND FOUNDATION**  
N.T.S.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE	LIGHTING DETAILS-1 HAWTHORNE LANE	
		SCALE: 1:50	DRAWN BY GAH
		DATE 12/7/2006	DESIGN BY GAH
			CHECKED BY JPC

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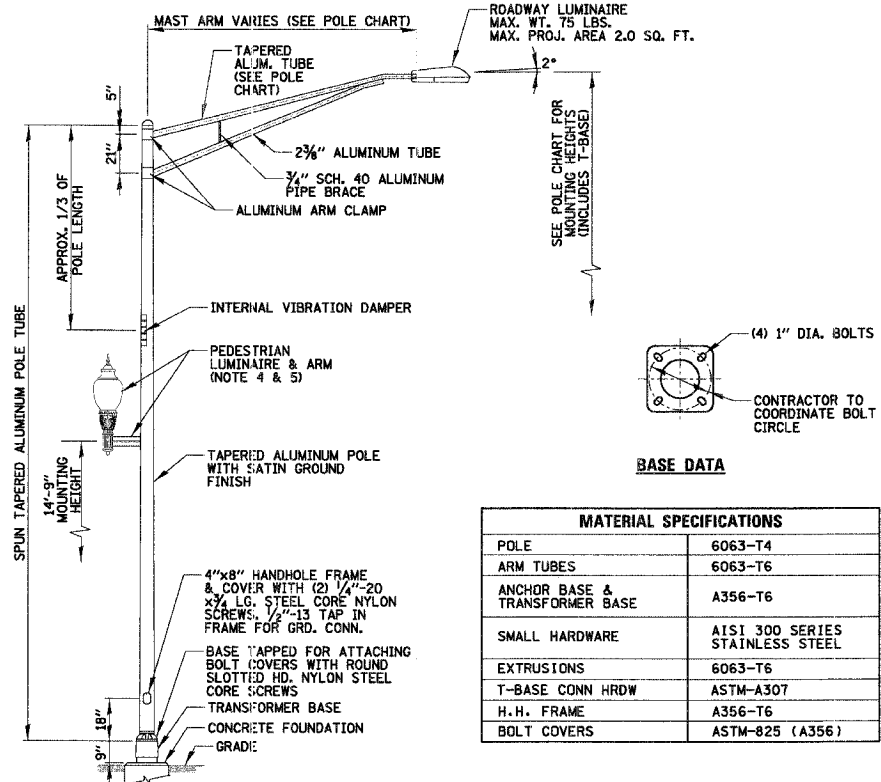
MATERIAL SPECIFICATIONS	
POLE	6063-T4
ARM TUBES	6063-T6
ANCHOR BASE & TRANSFORMER BASE	A356-T6
SMALL HARDWARE	AISI 300 SERIES STAINLESS STEEL
EXTRUSIONS	6063-T6
T-BASE CONN HRDW	ASTM-A307
H.H. FRAME	A356-T6
BOLT COVERS	ASTM-825 (A356)

POLE CHART					
POLE TYPE	POLE HT.	MTG. HT.	POLE SIZE	ARM SPREAD	ARM TUBE SIZE
1	27'-2"	30'-9"	.250"-8.0"x6.0"x27'-2"	12 FT.	0.125"W-3 1/2" O.D.
2	32'-2"	35'-9"	.250"-8.0"x6.0"x32'-2"	15 FT.	0.125"W-3 1/2" O.D.

LIGHT STANDARD MODEL INFORMATION				
POLE TYPE	MANUFACTURER	ROADWAY LUMINAIRE	IES PHOTOMETRIC CURVE	
1	A	G.E.	MDCL25MOA12FMC32	GE450342.IES
	B	AMERICAN ELECTRIC LIGHTING	32525MCAMT2R3FG	LTL15118-325SERIES.IES
2	A	G.E.	MDCL25MOA12FMC32	GE450342.IES
	B	AMERICAN ELECTRIC LIGHTING	32525MCAMT2R3FG	LTL15118-325SERIES.IES

- NOTES:**
- LIGHTPOLES SHALL MEET WIND LOADING & VIBRATION REQUIREMENTS ACCORDING TO THE LATEST AASHTO STANDARDS AND ARTICLE 1069.01 IN STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL STEEL SHALL BE FROM A DOMESTIC SOURCE.
  - THE LIGHT STANDARD SHALL MEET THE ILLUMINATION REQUIREMENTS AS SPECIFIED IN THE LUMINAIRE PERFORMANCE TABLES IN THE SPECIFICATIONS. ALL LUMINAIRES SHALL HAVE A MULTI-TAP BALLAST WIRED FOR 240 VOLTS OPERATION.
  - ALL LIGHT STANDARDS SHALL BE FROM THE SAME MANUFACTURER, OR APPROVED EQUAL.

**LIGHT STANDARD  
TYPE 1 AND TYPE 2 DETAIL**  
N.T.S.



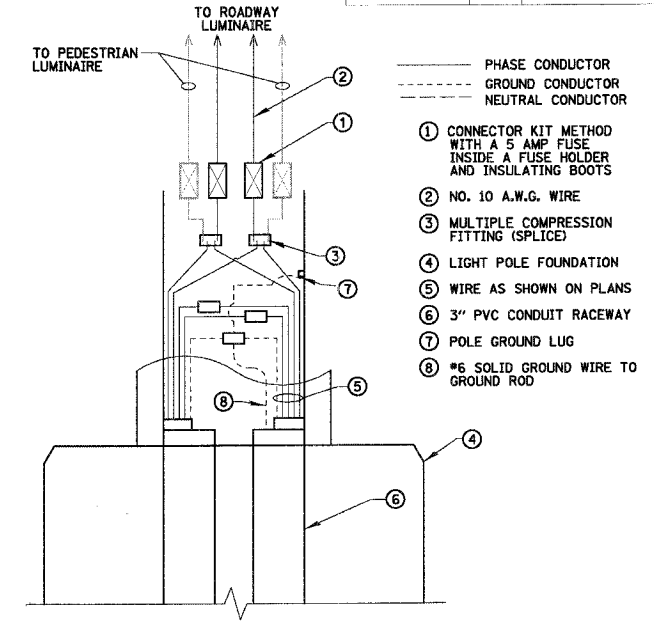
MATERIAL SPECIFICATIONS	
POLE	6063-T4
ARM TUBES	6063-T6
ANCHOR BASE & TRANSFORMER BASE	A356-T6
SMALL HARDWARE	AISI 300 SERIES STAINLESS STEEL
EXTRUSIONS	6063-T6
T-BASE CONN HRDW	ASTM-A307
H.H. FRAME	A356-T6
BOLT COVERS	ASTM-825 (A356)

POLE CHART					
POLE TYPE	POLE HT.	MTG. HT.	POLE SIZE	ARM SPREAD	ARM TUBE SIZE
3	27'-2"	30'-9"	.250"-8.0"x6.0"x27'-2"	12 FT.	0.125"W-3 1/2" O.D.
4	32'-2"	35'-9"	.250"-8.0"x6.0"x32'-2"	15 FT.	0.125"W-3 1/2" O.D.

LIGHT STANDARD MODEL INFORMATION							
POLE TYPE	MANUFACTURER GROUP	MANUFACTURER	ROADWAY LUMINAIRE 250W MH	ROADWAY BRACKET ARM	MANUFACTURER	PEDESTRIAN LUMINAIRE SOW MH	PEDESTRIAN BRACKET ARM
3	A	GE	MDCL25MOA12FMC32	PER POLE CHART	KING	K118RLGRII50(MED) MH240(MTK)13GH	KA16-S
	B	AMERICAN ELECTRIC LIGHTING	32525MCAMT2R3FG	PER POLE CHART	HOLOPHANE	WE50DMHMTA3A4	PCPWB-CA
4	A	GE	MDCL25MOA12FMC32	PER POLE CHART	KING	K118RLGRII50(MED) MH240(MTK)13GH	KA16-S
	B	AMERICAN ELECTRIC LIGHTING	32525MCAMT2R3FG	PER POLE CHART	HOLOPHANE	WE50DMHMTA3A4	PCPWB-CA

- NOTES:**
- LIGHTPOLES SHALL MEET WIND LOADING & VIBRATION REQUIREMENTS ACCORDING TO THE LATEST AASHTO STANDARDS AND ARTICLE 1069.01 IN STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL STEEL SHALL BE FROM A DOMESTIC SOURCE.
  - THE LIGHT STANDARD SHALL MEET THE ILLUMINATION REQUIREMENTS AS SPECIFIED IN THE LUMINAIRE PERFORMANCE TABLES IN THE SPECIFICATIONS. ALL LUMINAIRES SHALL HAVE A MULTI-TAP BALLAST WIRED FOR 240 VOLTS OPERATION.
  - ALL LIGHT STANDARDS SHALL BE FROM THE SAME MANUFACTURER, OR APPROVED EQUAL.
  - THE PEDESTRIAN LUMINAIRES CAN BE ELIMINATED AS PART OF THIS PROJECT, AT THE DISCRETION OF THE OWNER, PRIOR TO BEGINNING CONSTRUCTION. WHETHER OR NOT THIS OCCURS THE CONTRACTOR SHALL COORDINATE WITH POLE MANUFACTURER TO HAVE THE ALUMINUM POLES FACTORY TAPPED AND PLUGGED TO ACCEPT THE PEDESTRIAN LUMINAIRE AND ARM INSTALLATION. THE TAP SHALL BE PROPERLY LOCATED, AS TO ENSURE A 14'-9" MOUNTING HEIGHT ABOVE THE POLE AND TRANSFORMER BASE (AS INDICATED ABOVE).
  - PEDESTRIAN LUMINAIRE AND BRACKET ARM FINISH COLOR SHALL MATCH THE PROPOSED ROADWAY POLE. CONTRACTOR SHALL HAVE PEDESTRIAN LUMINAIRE SUPPLIER SUBMIT COLOR CHIP SAMPLE TO VERIFY COLOR WITH OWNER'S REPRESENTATIVE.

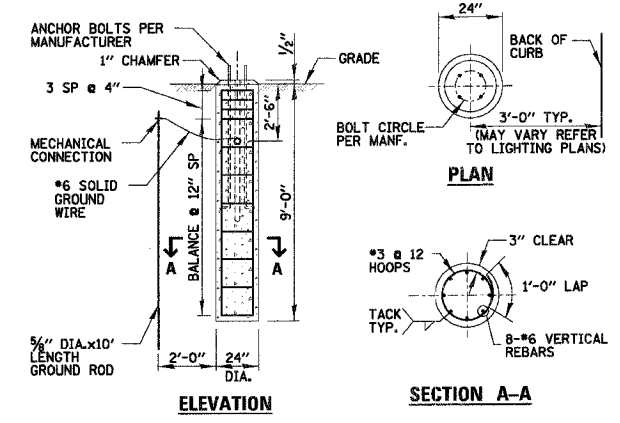
**LIGHT STANDARD  
TYPE 3 AND TYPE 4 DETAIL**  
N.T.S.



**POLE HANDHOLE WIRING DIAGRAM**  
N.T.S.

**24 IN. DIA. FOUNDATION DEPTH TABLE  
DESIGN BASE ON 80 M.P.H. AASHTO WIND LOADING**

TYPE OF SOIL	FOUNDATION DEPTH D	REINFORCEMENT IN FOUNDATION	
		VERTICAL BARS	HORIZONTAL BARS
ROCK OR SOLIDIFIED SLAG	5'-0"	NONE	NONE
DENSE SAND	7'-9"	8-#6 x 7'-4"	#3 x 73'
MEDIUM SAND	8'-3"	8-#6 x 7'-10"	#3 x 78'
LOOSE SAND	9'-0"	8-#6 x 8'-7"	#3 x 85'
STIFF CLAY	7'-0"	8-#6 x 6'-7"	#3 x 66'
MEDIUM CLAY	9'-6"	8-#6 x 9'-1"	#3 x 90'
SOFT CLAY	13'-0"	8-#6 x 12'-7"	#3 x 122'



**CONCRETE FOUNDATION DETAIL**  
N.T.S.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION <b>LIGHTING DETAILS-2 HAWTHORNE LANE</b>
NAME	DATE	

SCALE: 50'

DATE: 12/7/2006

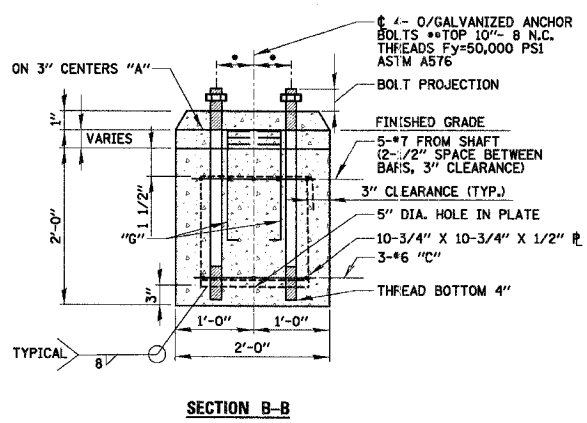
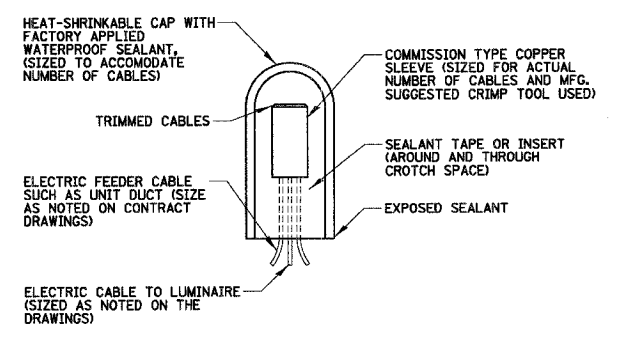
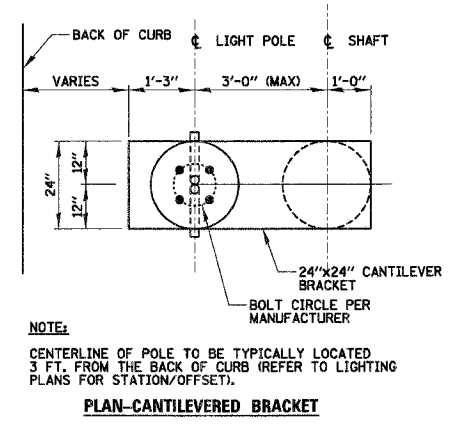
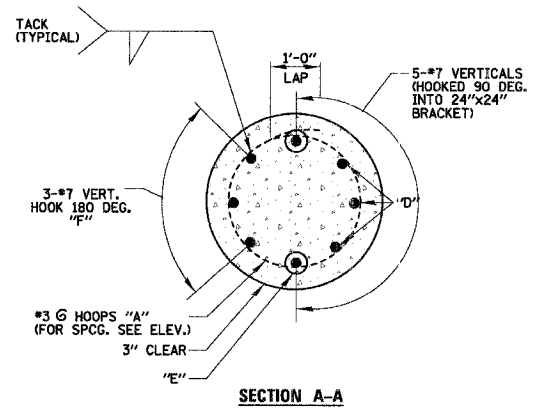
DRAWN BY GAH  
DESIGN BY GAH  
CHECKED BY JPC

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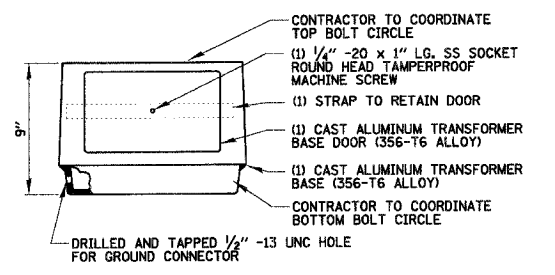


### LUMINAIRE AND POLE SCHEDULE

LIGHT POLE ID	SYMBOL	ROADWAY LUMINAIRE MTG. HEIGHT	ROADWAY LUMINAIRE (MH)	ROADWAY LUMINAIRE ARM LENGTH	PEDESTRIAN LUMINAIRE METAL HALIDE	CIRCUIT NO.	CONTROLLER
P1	●●●●●	30'-9"	250W	12'-0"	50W	A	C1
P2	●●●●●	30'-9"	250W	12'-0"	-	B	C1
P3	●●●●●	30'-9"	250W	12'-0"	50W	A	C1
P4	●●●●●	30'-9"	250W	12'-0"	-	B	C1
P5	●●●●●	30'-9"	250W	12'-0"	50W	A	C1
P6	●●●●●	30'-9"	250W	12'-0"	-	B	C1
P7	●●●●●	30'-9"	250W	12'-0"	50W	A	C1
P8	●●●●●	30'-9"	250W	12'-0"	-	B	C1
P9	●●●●●	30'-9"	250W	12'-0"	50W	A	C1
P10	●●●●●	30'-9"	250W	12'-0"	-	B	C1
P11	●●●●●	30'-9"	250W	12'-0"	50W	C	C1
P12	●●●●●	30'-9"	250W	12'-0"	-	D	C1
P13	●●●●●	30'-9"	250W	12'-0"	50W	C	C1
P14	●●●●●	30'-9"	250W	12'-0"	-	D	C1
P15	●●●●●	30'-9"	250W	12'-0"	50W	C	C1
P16	●●●●●	30'-9"	250W	12'-0"	-	D	C1
P17	●●●●●	30'-9"	250W	12'-0"	50W	C	C1
P18	●●●●●	30'-9"	250W	12'-0"	-	D	C1
P19	●●●●●	30'-9"	250W	12'-0"	50W	C	C1
P20	●●●●●	30'-9"	250W	12'-0"	-	A	C2
P21	●●●●●	30'-9"	250W	12'-0"	50W	B	C2
P22	●●●●●	30'-9"	250W	12'-0"	-	A	C2
P23	●●●●●	30'-9"	250W	12'-0"	50W	B	C2
P24	●●●●●	30'-9"	250W	12'-0"	-	A	C2
P25	●●●●●	30'-9"	250W	12'-0"	50W	B	C2
P26	●●●●●	30'-9"	250W	12'-0"	-	A	C2
P27	●●●●●	30'-9"	250W	12'-0"	50W	B	C2
P28	●●●●●	30'-9"	250W	12'-0"	-	A	C2
P29	●●●●●	30'-9"	250W	12'-0"	50W	B	C2
P30	●●●●●	30'-9"	250W	12'-0"	-	C	C2
P31	●●●●●	30'-9"	250W	12'-0"	50W	D	C2
P32	●●●●●	30'-9"	250W	12'-0"	-	C	C2
P33	●●●●●	30'-9"	250W	12'-0"	50W	D	C2
P34	●●●●●	30'-9"	250W	12'-0"	-	C	C2
P35	●●●●●	30'-9"	250W	12'-0"	50W	D	C2
P36	●●●●●	30'-9"	250W	12'-0"	-	C	C2
P37	●●●●●	30'-9"	250W	12'-0"	50W	D	C2
P38	●●●●●	30'-9"	250W	12'-0"	-	C	C2
P39	●●●●●	30'-9"	250W	12'-0"	-	A	C3
P40	●●●●●	30'-9"	250W	12'-0"	-	B	C3
P41	●●●●●	30'-9"	250W	12'-0"	50W	A	C3
P42	●●●●●	30'-9"	250W	12'-0"	-	B	C3
P43	●●●●●	30'-9"	250W	12'-0"	50W	A	C3
P44	●●●●●	30'-9"	250W	12'-0"	-	B	C3
P45	●●●●●	30'-9"	250W	12'-0"	50W	A	C3
P46	●●●●●	30'-9"	250W	12'-0"	-	B	C3
P47	●●●●●	30'-9"	250W	12'-0"	50W	A	C3
P48	●●●●●	30'-9"	250W	12'-0"	-	B	C3
P49	●●●●●	30'-9"	250W	12'-0"	50W	A	C3
P50	●●●●●	30'-9"	250W	12'-0"	-	C	C3
P51	●●●●●	30'-9"	250W	12'-0"	50W	D	C3
P52	●●●●●	30'-9"	250W	12'-0"	-	C	C3
P53	●●●●●	30'-9"	250W	12'-0"	50W	D	C3
P54	●●●●●	30'-9"	250W	12'-0"	-	C	C3
P55	●●●●●	35'-9"	250W	15'-0"	50W	D	C4
P56	●●●●●	35'-9"	250W	15'-0"	-	B	C4
P57	●●●●●	35'-9"	250W	15'-0"	50W	A	C4
P58	●●●●●	35'-9"	250W	15'-0"	-	B	C4
P59	●●●●●	35'-9"	250W	15'-0"	50W	A	C4
P60	●●●●●	35'-9"	250W	15'-0"	-	B	C4
P61	●●●●●	35'-9"	250W	15'-0"	50W	A	C4
P62	●●●●●	35'-9"	250W	15'-0"	-	B	C4
P63	●●●●●	35'-9"	250W	15'-0"	50W	A	C4
P64	●●●●●	35'-9"	250W	15'-0"	-	B	C4
P65	●●●●●	35'-9"	250W	15'-0"	50W	C	C4
P66	●●●●●	35'-9"	250W	15'-0"	-	D	C4
P67	●●●●●	35'-9"	250W	15'-0"	50W	C	C4
P68	●●●●●	35'-9"	250W	15'-0"	-	D	C4
P69	●●●●●	35'-9"	250W	15'-0"	50W	C	C4
P70	●●●●●	35'-9"	250W	15'-0"	-	D	C4
P71	●●●●●	35'-9"	250W	15'-0"	50W	C	C4
P72	●●●●●	35'-9"	250W	15'-0"	-	D	C4
P73	●●●●●	35'-9"	250W	15'-0"	50W	C	C4
P74	●●●●●	35'-9"	250W	15'-0"	-	D	C4
P75	●●●●●	35'-9"	250W	15'-0"	50W	C	C4
P76	●●●●●	30'-9"	250W	12'-0"	-	B	C1
P77	●●●●●	30'-9"	250W	12'-0"	-	A	C2
P78	●●●●●	30'-9"	250W	12'-0"	-	C	C2
P79	●●●●●	30'-9"	250W	12'-0"	-	D	C2
P80	●●●●●	30'-9"	250W	12'-0"	-	B	C3
P81	●●●●●	30'-9"	250W	12'-0"	-	-	-

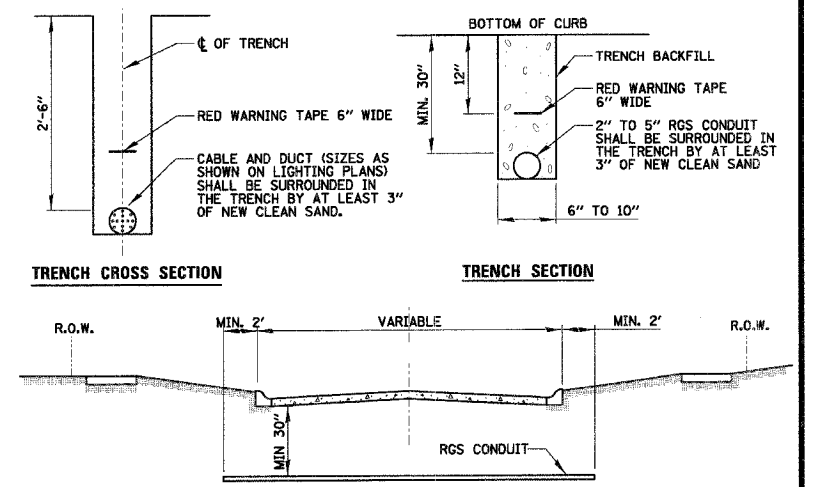
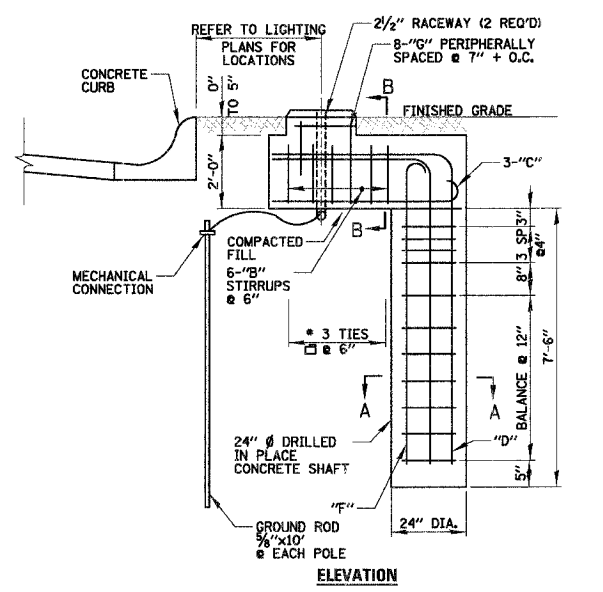


- NOTES:
- BOLT CIRCLE PER MANUFACTURER
  - THE TOP OF THE ANCHOR BOLTS SHALL NOT PROJECT MORE THAN 4" ABOVE A 60" CHORD ALIGNED RADIALLY TO THE CENTERLINE OF THE ROADWAY, AND CONNECTING ANY POINT, WITHIN THE LENGTH OF THE CHORD, ON THE GROUND SURFACE ON ONE SIDE OF THE SUPPORT TO A POINT ON THE GROUND SURFACE ON THE OTHER SIDE.
- CONCRETE SHALL BE 3500 PSI AT 14 DAYS
  - HOLE FOR FOUNDATION SHAFT SHALL BE AUGERED
  - REINFORCING BARS SHALL CONFORM TO BILLET STEEL BARS. (ASTM-A616) SPECIFICATIONS WITH A 6000 PSI MINIMUM YIELD STRENGTH.
  - FOUNDATION AS SHOWN REPRESENTS 13.5 LINEAL FEET FOR LIGHT POLE FOUNDATION, OFFSET, 24" DIAMETER.

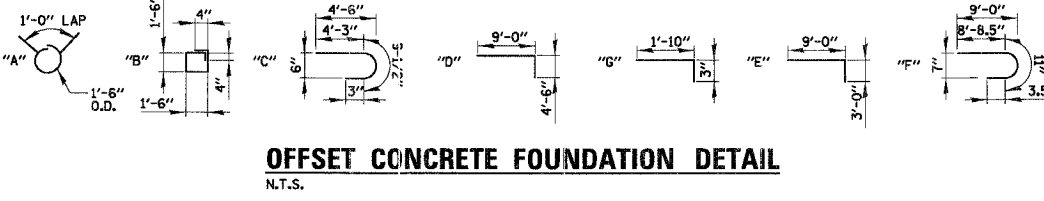


- NOTES:
- BEFORE INSTALLATION OF BREAKAWAY BASE, USER SHOULD CONSULT WITH AUTHORIZED DISTRIBUTOR REGARDING USERS PROPOSED APPLICATION, LOAD REQUIREMENTS AND INSTALLATION METHODS. FAILURES CAN RESULT FROM MISAPPLICATION OR IMPROPER INSTALLATION. TO APPROACH OPTIMUM STATIC LOADS, USE THE LARGEST POSSIBLE BOLT CIRCLES. SHIMS SHALL NOT BE USED.

BILL OF MATERIALS				
QUAN.	MARK	SIZE	LENGTH	SHAPE
11	A	NO. 3	5'-9"	○
6	B	NO. 3	6'-8"	□
3	C	NO. 6	5'-3 1/2"	U
8	G	NO. 6	2'-1"	□
3	D	NO. 7	13'-6"	□
2	E	NO. 7	12'-0"	□
3	F	NO. 7	9'-11"	□
REINFORCING BARS LBS.				285
CLASS X CONCRETE CU. YDS.				1.7
ANCHOR BOLTS NO.				4
ANCHOR BOLT PLATE NO.				1



- STREET CROSSING
- CONDUIT SHALL BE HEAVY WALL RGS CONDUIT.
  - CONDUIT SHALL EXTEND A MINIMUM OF 2 FT. BEYOND BACK OF CURB.
  - CONDUIT SHALL BE A MINIMUM OF 30" BELOW CURB BOTTOM.



ELECTRIC CONDUIT UNDER PAVEMENT  
N.T.S.

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**LIGHTING DETAILS-3  
HAWTHORNE LANE**

SCALE: 50'  
DATE: 12/7/2006

DRAWN BY: GAH  
DESIGN BY: GAH  
CHECKED BY: JPC

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Bench Mark: Square Cut On Curb Of Island Near Flagpoles In Front Of Address #1601 Hawthorne Lane. Elev. 753.33

Existing Structure: No Structure Number. Existing Structure Is Composed Of Dual 48" Diameter CMP With Metal Flared End Sections. The Catch Basin On The North End Of The Culvert And The 36" RCP Under The Proposed Box Culvert Will Be Removed. See Drainage Plans For Removal And Pay Item. The Construction Date Is Unknown. The Road Will Be Closed During Construction. The Culvert Shall Be Constructed During Phase III. The Contractor Shall Coordinate With Resident Engineer Construction Schedule So That Roadway Is Not Closed For More Than Two Calendar Weeks.

No Salvage Of Existing Structure.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-0062-00-PV	DUPAGE	199	118
CONTRACT NO. 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

**TOTAL BILL OF MATERIAL**

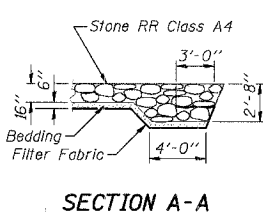
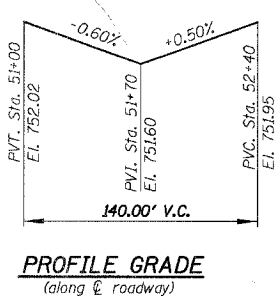
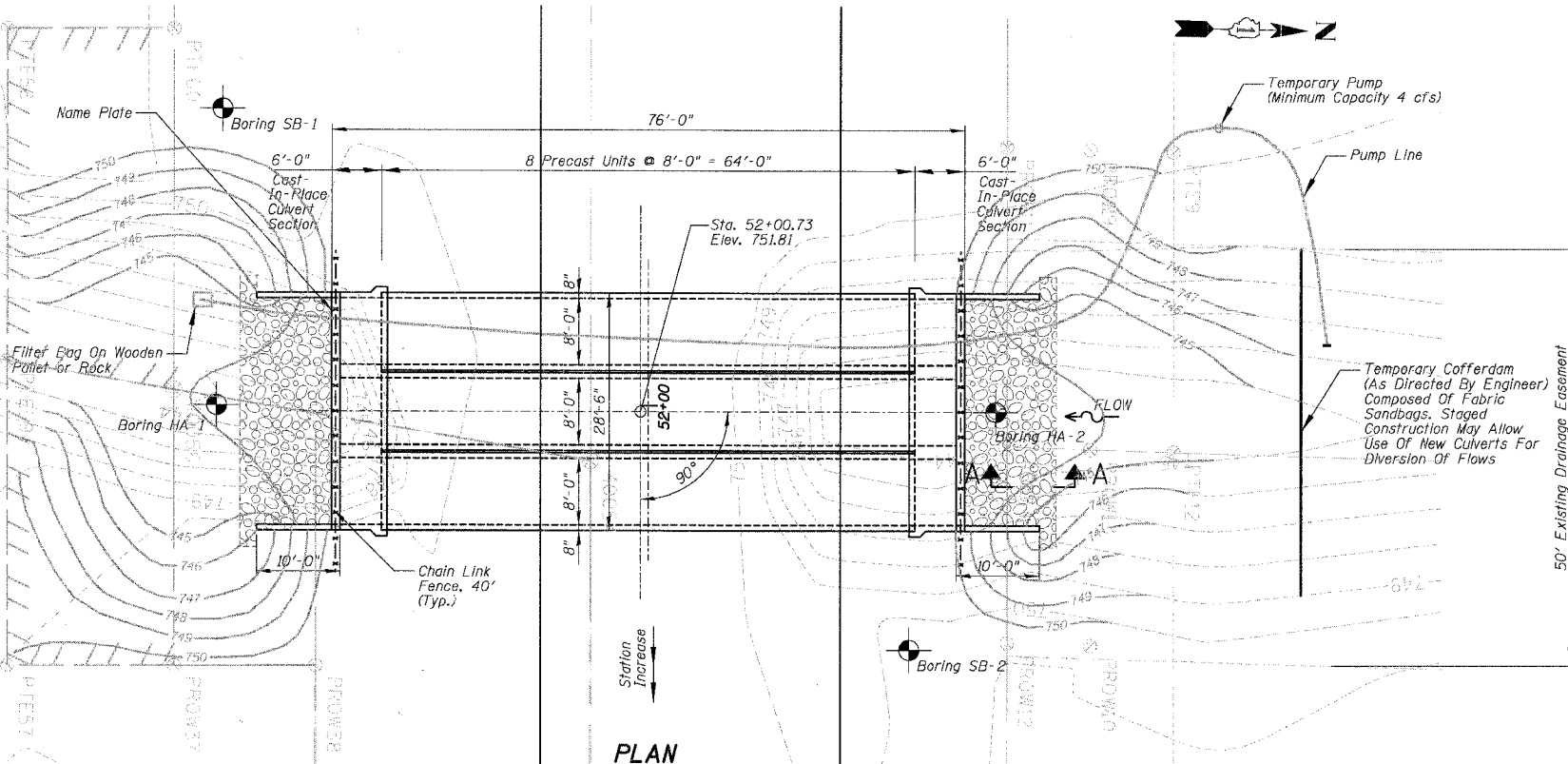
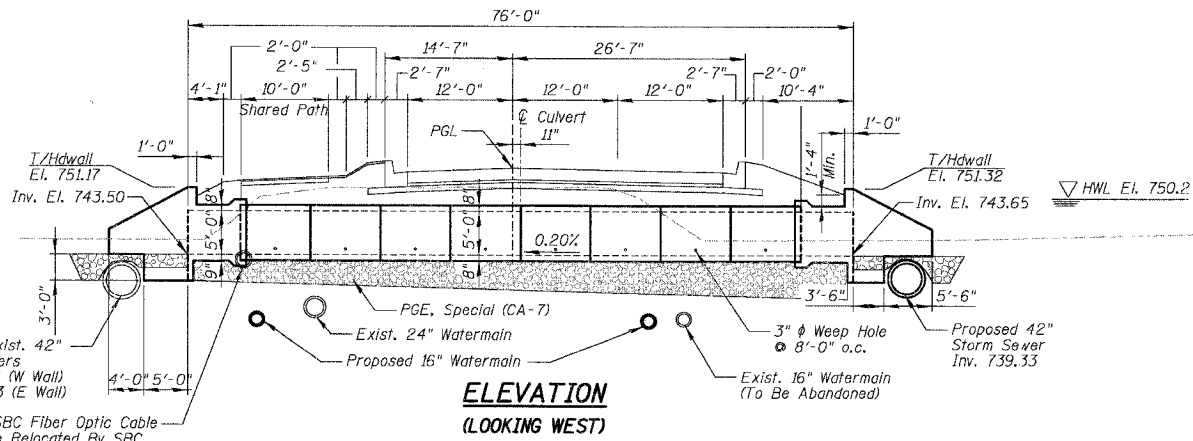
ITEM	UNIT	TOTAL
Precast Concrete Box Culverts 8' x 5' (M273)	Ft	192
Box Culvert End Sections	Each	2
Name Plates	Each	1
Stone Riprap, Class A4	Sq Yd	69
Filter Fabric	Sq Yd	69
Chain Link Fence, 6' Attached To Structure	Ft	80
Porous Granular Backfill	Cu Yd	58
Porous Granular Embankment, Special	Cu Yd	387
Removal And Disposal Of Unsuitable Material	Cu Yd	387

**NOTES:**

- Precast Concrete Box Culvert sections shall conform to the requirements of Article 540.06 of the Standard Specifications and the applicable requirements of AASHTO M 273.
- Reinforcement bars shall conform to the requirements of AASHTO M 31, or M-322.
- Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.
- It shall be the responsibility of the Contractor to divert the stream flow during construction in order to keep the construction areas free of water. The method of water diversion shall be subject to the approval of the Engineer and cost shall be included with "Concrete Box Culvert".
- Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
- For backfilling and embankment, see Standard Specifications.
- Exposed edges shall be beveled 3/4".
- All construction joints shall be bonded.
- Precast alternate not allowed for Box Culvert End Sections.
- The six foot C.I.P. portion of the box shall be cast monolithically with the wingwall.
- End sections will be paid for at the contract unit price each for Box Culvert End Sections of the culvert number specified, which price shall be payment in full for the work as specified and as shown on the plans, including cut-off walls, headwalls, collars, wingwalls, footings and all cast-in-place portions of the barrel, reinforcement bars and excavation.
- For removal and pay item of the existing dual 48" CMP and 36" RCP. See drainage plans.

KRESS CREEK  
BUILT BY  
DUPAGE COUNTY  
SEC. 99-0062-00-PV  
F.A.U. 1389 STA. 52+00.73  
STR. NO. 022-6010 LOADING HS20

**NAME PLATE**  
See Std. 515001



**WATERWAY INFORMATION**

Drainage Area	= 2 Sq. Mi.
Design Discharge (50 yr.)	= 460 c.f.s.
Exist. Opening (below 50 yr. H.W.E.)	= 25 Sq. Ft.
Prop. Opening (below 50 yr. H.W.E.)	= 17 Sq. Ft.
Created Head for Design Flood	= 0.0 Ft.
Created Head 100yr. Flood	= 0.0 Ft.
100 Yr. Discharge	= 505 c.f.s.
100 Yr. H.W.E.	= 750.6

**DESIGN SPECIFICATIONS**

2002 AASHTO Standard Specifications for Highway Bridges 17th Edition.

**LOADING HS20-44**

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

**DESIGN STRESSES**

**FIELD UNITS**

$f_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement Bars)

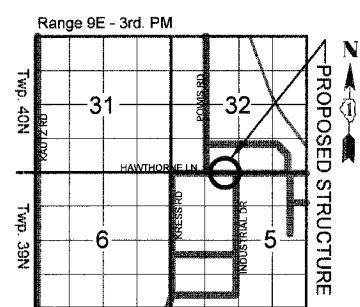
**PRECAST UNITS**

$f_c = 5,000$  psi  
 $f_y = 60,000$  psi (Reinforcement Bars)  
 $f_y = 65,000$  psi (Welded Wire Fabric)

I hereby Certify That The Waterway Opening For The Existing/Proposed Structure Has Been Analyzed And Evaluated Using Hydrologic And Hydraulic Engineering Methods In Accordance With The Policies And Procedures Presented In The Drainage Manual Of The Illinois Department Of Transportation.

September 8, 2006

*Gerald Robinson*  
**GERALD ROBINSON, P.E.**  
ILLINOIS REGISTRATION No. 062-047272  
EXPIRATION DATE: 11/30/07



I Certify That To The Best Of My Knowledge, Information And Belief, This Bridge Design Is Structurally Adequate For The Design Loading Shown On The Plans. The Design Is An Economical One For The Style Of Structure And Complies With Requirements Of The Current "AASHTO Standard Specification For Highway And Bridges".

September 8, 2006

*Majid Mobasser*  
**MAJID MOBASSERI**  
ILLINOIS REGISTRATION No. 081-005058 STRUCTURAL ENGINEER  
EXPIRATION DATE: 11/30/06



**GENERAL PLAN AND ELEVATION**

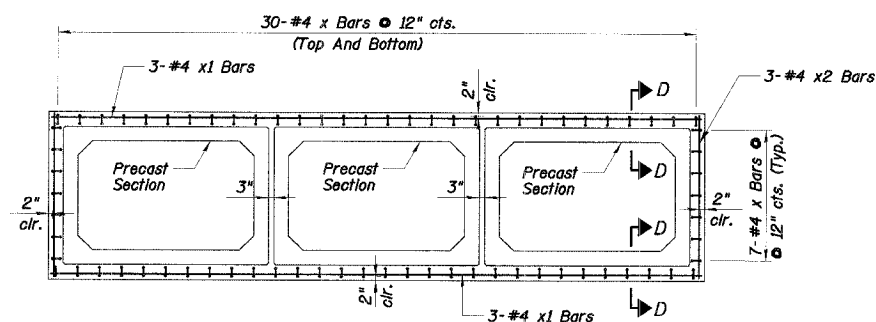
HAWTHORNE LANE OVER  
KRESS CREEK  
F.A.U. 1389 - SECTION 99-0062-00-PV  
DUPAGE COUNTY  
STATION 52+00.73  
STRUCTURE NO. 022-6010

**CHRISTOPHER B. BURKE**  
ENGINEERING LTD.  
9575 West Higgins Road, Suite 600  
Rosemont, Illinois 60018

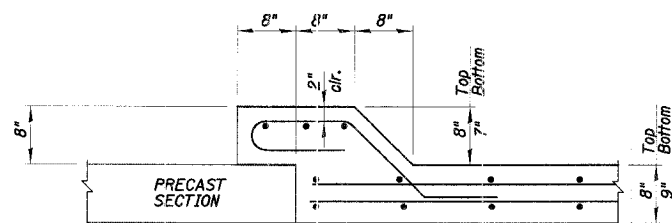
REVISIONS	NAME	DATE	DRAWING NUMBER

S-1





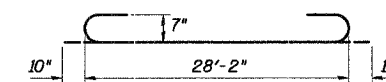
(C) SECTION THRU PRECAST TO CAST-IN-PLACE COLLAR



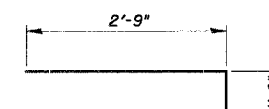
(D) SECTION THRU COLLAR

**BILL OF MATERIAL**

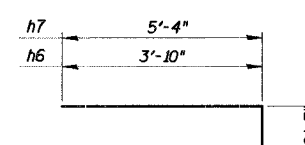
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a	48	#7	29'-10"	C
a1	48	#7	20'-1"	
a2	20	#4	6'-10"	
d	56	#4	4'-6"	L
h	104	#6	5'-8"	
h1	116	#5	5'-8"	
h2	60	#5	5'-8"	
h3	12	#6	17'-6"	
h4	25	#6	11'-7"	
h5	10	#6	28'-2"	
h6	12	#6	6'-5"	
h7	11	#6	7'-11"	
v	104	#4	6'-1"	
v1	8	#4	10'-4"	
v2	8	#4	4'-8"	
s	28	#4	7'-1"	□
s1	28	#4	6'-11"	
x	148	#4	5'-9"	C
x1	12	#4	29'-6"	
x2	12	#4	7'-3"	



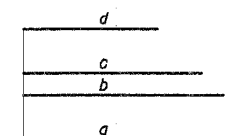
BAR a



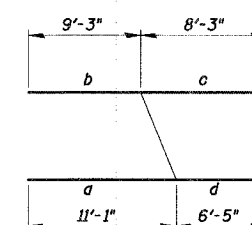
BAR d



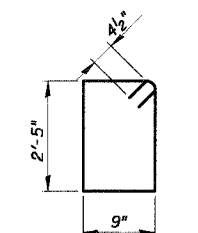
BAR h6 & h7



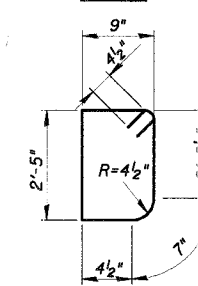
PLACING DIAGRAM h3 BARS



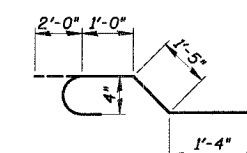
CUTTING DIAGRAM h3 BARS



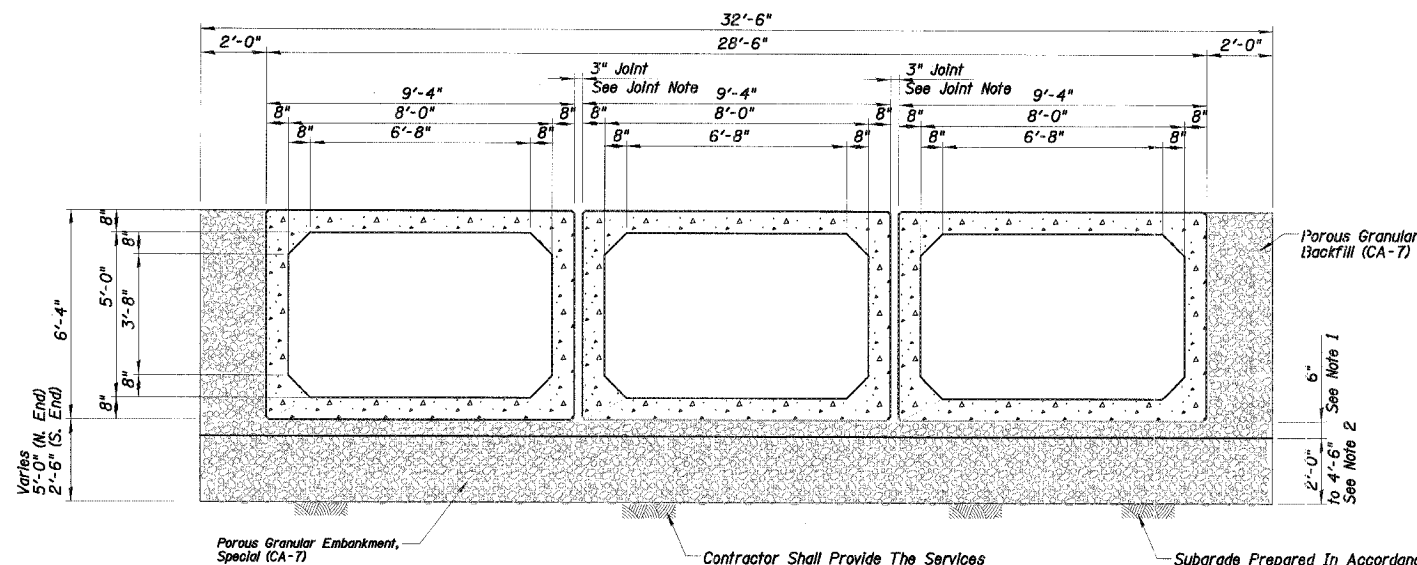
BAR s



BAR s1



BAR x



TYPICAL SECTION THRU PRECAST CULVERT

**NOTES:**

1. First 6" Of Excavation And Porous Granular Embankment, Special Included In Cost Of Precast Concrete Box Culvert And Box Culvert End Sections.
2. Remaining 2'-0" To 4'-6" Paid For As Removal And Disposal Of Unsuitable Material And Porous Granular Embankment, Special.

**3" JOINT NOTE**

1. The joints between precast box sections shall be sealed and all voids filled with mastic joint sealer. Mastic shall be according to Section 1055. In addition, the joints shall be externally sealed on four sides using either 13 in. wide external sealing bands conforming to Article 1057.01 or 24 in. wide non-woven geotechnical fabric meeting the requirements of Article 1080.01 except the minimum weight shall be 4 oz/sq. yd. The seal or fabric shall be centered over the joint and secured to remain in place during backfilling operation.
2. A 3" space shall be left between adjacent sections. After the precast cells are in place and backfill has been placed to mid height of the precast concrete box sections on each side, the space between the cells shall be filled with Class S1 Concrete. The Class S1 Concrete shall be in accordance with Section 1020 of the IDOT Standard Specifications except the maximum size coarse aggregate shall be 3/8".
3. The cost of mastic, sealing bands and S1 concrete is incidental to Precast Concrete Box Culverts.

**SECTIONS AND DETAILS**

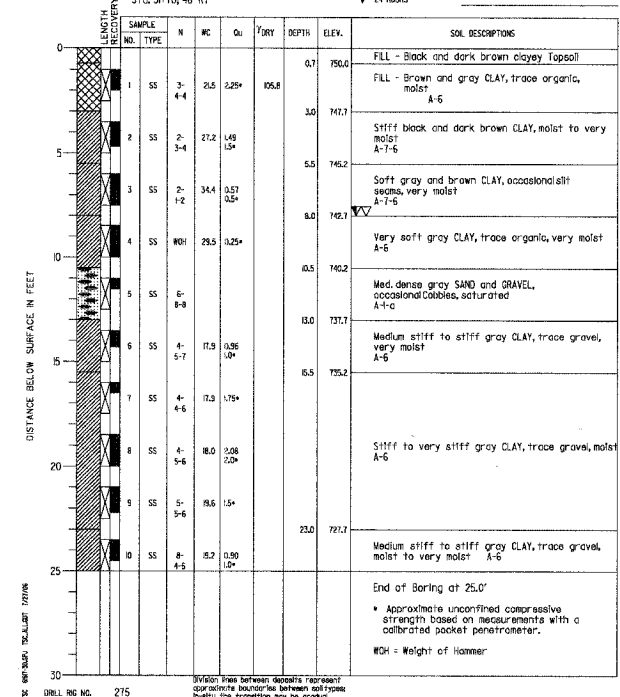
HAWTHORN LANE OVER  
KRESS CREEK  
F.A.U. 1389 - SECTION 99-0062-00-PV  
DUPAGE COUNTY  
STATION 52+00.73  
STRUCTURE NO. 022-6010

CHRISTOPHER B. BURKE  
ENGINEERING LTD.  
9575 West Higgins Road, Suite 600  
Rosemont, Illinois 60018

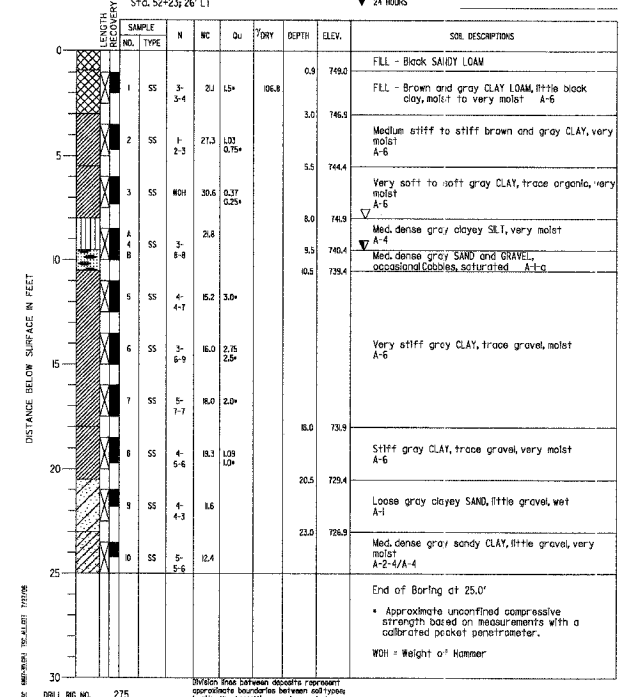
REVISIONS	NAME	DATE	DRAWING NUMBER
			S-3

F.A.U. RTE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-0062-00-PV	DUPAGE	199	121
CONTRACT NO. 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

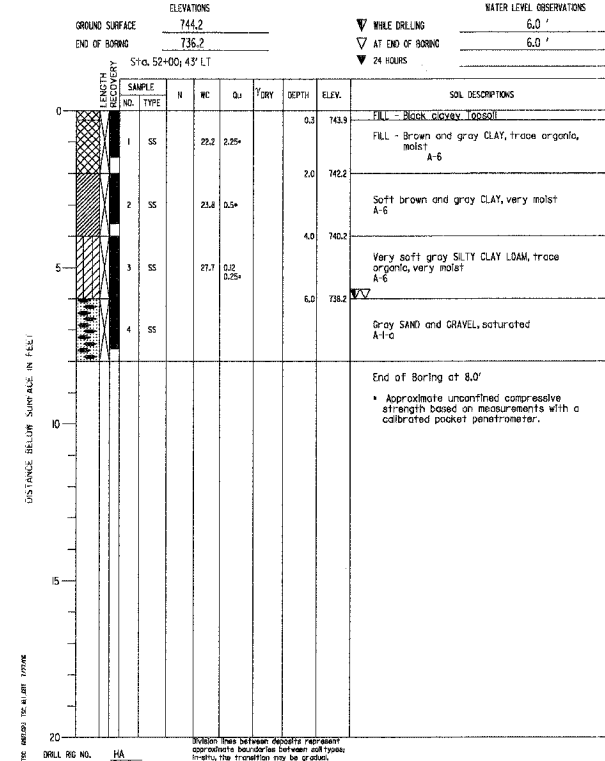
PROJECT Hawthorne Lane Reconstruction, City of West Chicago  
 CLIENT Christopher B. Burke Engineering, Rosemont, Illinois  
 BORING SB-1 DATE STARTED 5-1-06 DATE COMPLETED 5-1-06 JOB L-61617  
 ELEVATIONS: GROUND SURFACE 750.7, END OF BORING 725.7  
 WATER LEVEL OBSERVATIONS: WHILE DRILLING 8.0', AT END OF BORING 8.0', 24 HOURS



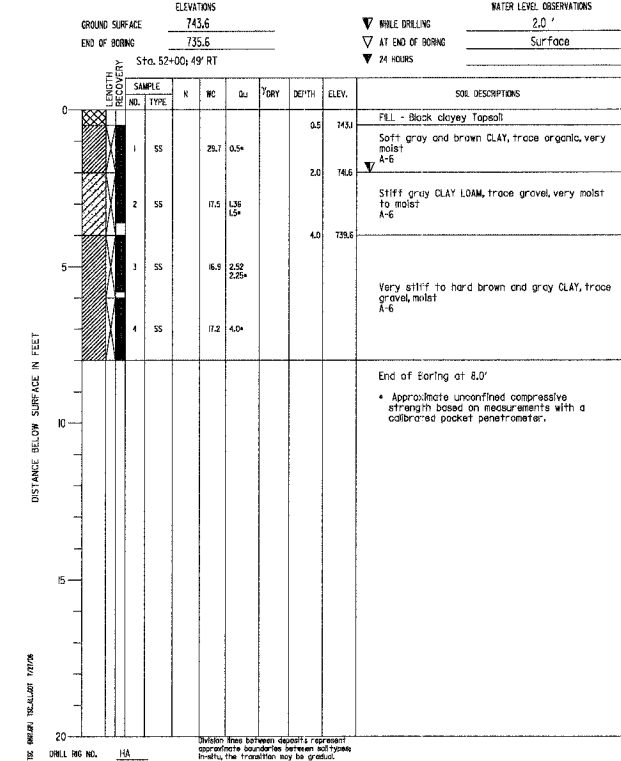
PROJECT Hawthorne Lane Reconstruction, City of West Chicago  
 CLIENT Christopher B. Burke Engineering, Rosemont, Illinois  
 BORING SB-2 DATE STARTED 5-1-06 DATE COMPLETED 5-1-06 JOB L-61617  
 ELEVATIONS: GROUND SURFACE 749.9, END OF BORING 724.9  
 WATER LEVEL OBSERVATIONS: WHILE DRILLING 9.5', AT END OF BORING 8.0', 24 HOURS



PROJECT Hawthorne Lane Reconstruction, City of West Chicago  
 CLIENT Christopher B. Burke Engineering, Ltd., Rosemont, Illinois  
 BORING HA-2 DATE STARTED 5-1-06 DATE COMPLETED 5-1-06 JOB L-61617  
 ELEVATIONS: GROUND SURFACE 744.2, END OF BORING 736.2  
 WATER LEVEL OBSERVATIONS: WHILE DRILLING 6.0', AT END OF BORING 6.0', 24 HOURS



PROJECT Hawthorne Lane Reconstruction, City of West Chicago  
 CLIENT Christopher B. Burke Engineering, Ltd., Rosemont, Illinois  
 BORING HA-1 DATE STARTED 5-1-06 DATE COMPLETED 5-1-06 JOB L-61617  
 ELEVATIONS: GROUND SURFACE 743.6, END OF BORING 735.6  
 WATER LEVEL OBSERVATIONS: WHILE DRILLING 2.0', AT END OF BORING Surface, 24 HOURS



**BORINGS**  
 HAWTHORNE LANE OVER  
 KRESS CREEK  
 F.A.U. 1389 - SECTION 99-0062-00-PV  
 DUPAGE COUNTY  
 STATION 52+00.73  
 STRUCTURE NO. 022-6010

**CHRISTOPHER B. BURKE ENGINEERING LTD.**  
 9575 West Higgins Road, Suite 600  
 Rosemont, Illinois 60018

REVISIONS	DATE	DESCRIPTION

DATE SUBMITTED: 5/1/06  
 DRAWN BY: MJS  
 CHECKED BY: PJP  
 APPROVED BY: MJS  
 PROJECT NO: 84-473  
 DATE: 8/7/2006

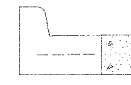
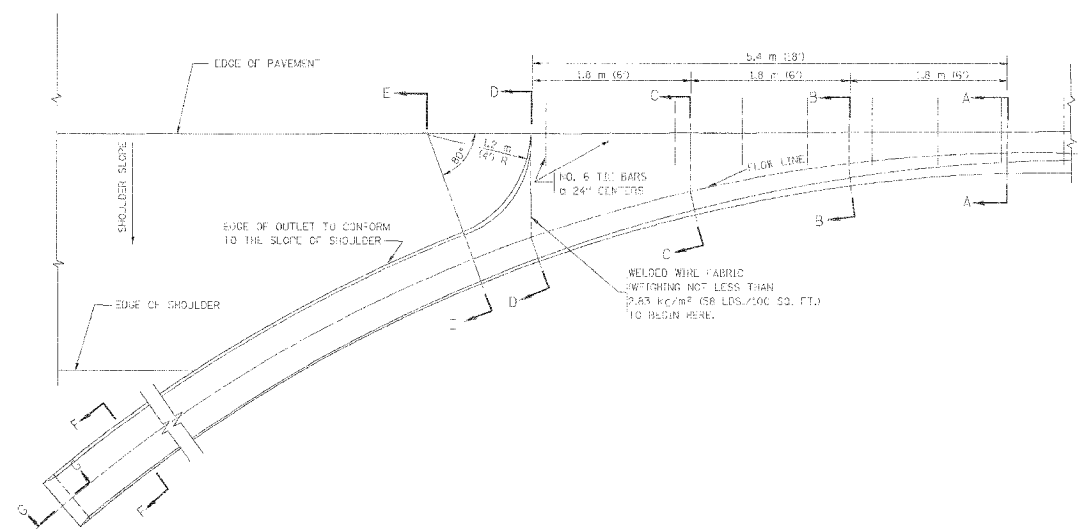
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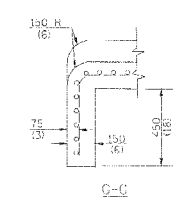
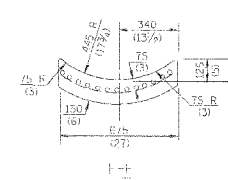
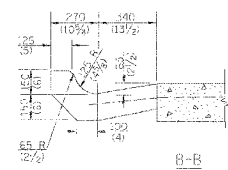
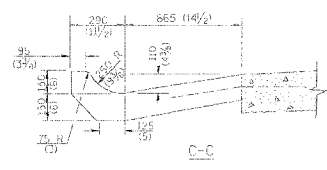
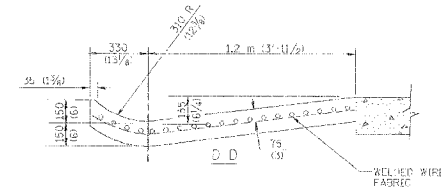
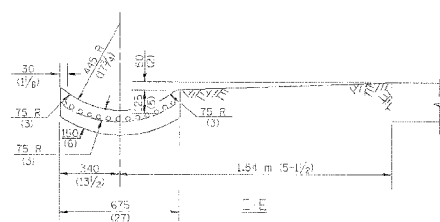
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F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	122
CONTRACT NO. 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STA.	TO STA.
FULL SHEET NO. 1	FULL SHEET NO. 1



\* DIMENSIONS OF THE CURB & GUTTER AT SECTION A-A ARE SHOWN ON STATE STANDARD 60600. FOR DETAILS OF OUTLET FOR CONCRETE CURB & GUTTER, TYPE B-15.60 (B-6.24) SEE STATE STANDARD 606006.



GENERAL NOTES

GUTTER OUTLET SHALL BE TIED TO THE PAVEMENT IN ACCORDANCE WITH DETAILS FOR LONG-TERM CONSTRUCTION JOINT SHOWN ON STANDARD 420001.

TIE BARS SHALL BE NO. 20 (NO. 6) AT 200 (24) CENTERS UNLESS OTHERWISE SHOWN.

IF THE AVERAGE GRADE OF PAVEMENT FOR THE DISTANCE FROM SECTION A-A TO D-D EXCEEDS 2% THIS DISTANCE SHALL BE INCREASED 1.8 m (6') FOR EACH 1% INCREASE IN GRADE.

QUANTITIES

FOR SECTION A-A TO E-E AND CERTAIN WALL:  
 0.06 m<sup>3</sup> (0.25 CU. YDS.) CLASS S1 CONCRETE (OUTLET) FOR 225 (9) PAVT.  
 0.87 m<sup>3</sup> (3.27 CU. YDS.) CLASS S1 CONCRETE (OUTLET) FOR 225 (9) PAVT.  
 FOR SECTION F-F:  
 0.02 m<sup>3</sup> (0.045 CU. YDS.) CLASS S1 CONCRETE PER M (11').

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

ILLINOIS DEPARTMENT OF TRANSPORTATION

OUTLET FOR CONCRETE CURB AND GUTTER

REVISIONS	
NAME	DATE
M. DE YONG	8/4/86
R. SHAH	10/13/94
R. SHAH	10/25/94
E. GOMEZ	12/21/00

SCALE: NONE  
 DATE: 8/18/2007  
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 CHECKED BY: [blank]  
 REVISION DATE: 12/21/00

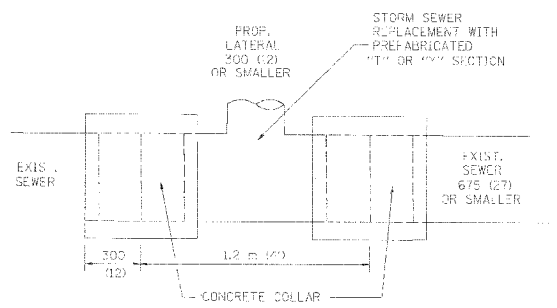
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**OUTLET FOR CONCRETE CURB AND GUTTER**

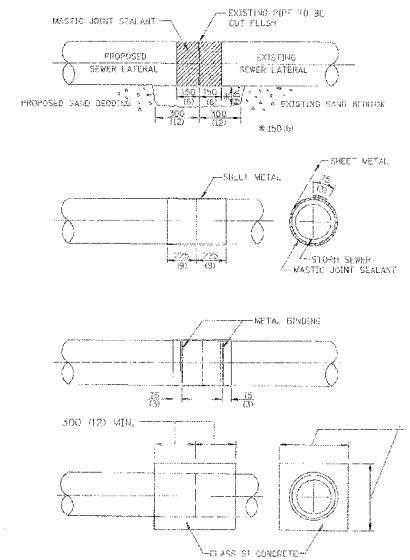
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M:\Westch\04479\04479-1.B1

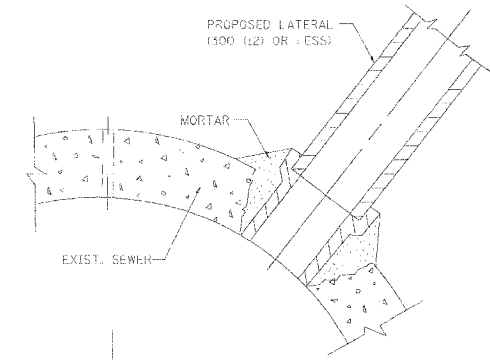
S.A. NO.	SECTION	CHUNK	FINAL SHEET	SHEET NO.
STA.	TO STA.			
PTS. FROM DIST. NO.	BLK/PT.		FED. AID PROJECT	



DETAIL "A"  
LATERAL CONNECTION TO EXISTING SEWER OF 675 (27) OR SMALLER



DETAIL "B"  
CLASS SI CONCRETE COLLAR



DETAIL "C"  
PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 750 (30) OR LARGER

CONSTRUCTION SEQUENCE

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 150 (6) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A GAP OF 200 X 150 (10 X 6) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL (GAGE NO. 18 1/2 (30418) 400 (16) WIDE BY THE CIRCUMFERENCE OF THE PIPE PLUS 75 (3) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 225 (9) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 75 (3) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIFE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OZZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.

NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

1. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
2. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
  - A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 675 (27) OR SMALLER SEE DETAIL "A" AND "B";
  - B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 750 (30) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS. THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FIRMING UP AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FIRMING UP AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE USED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSATISFACTORY MATERIAL, BELOW PLAN BEDDING GRADE, WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

ALL DIMENSIONS ARE IN MILLIMETERS (M-M) UNLESS OTHERWISE SHOWN.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER

REV. NO.	NAME	DATE
1	M. DE YONG	07/25/90
2	M. DE YONG	02/05/92
3	M. DE YONG	03/08/92
4	R. SHAH	03/09/94
5	R. SHAH	10/28/94
6	R. SHAH	06/12/96

SCALE: NONE  
DATE: 10/18/2006  
DRAWN BY: CADD  
CHECKED BY: BD500-01 (BD-7)  
REVISION DATE: 06/10/08

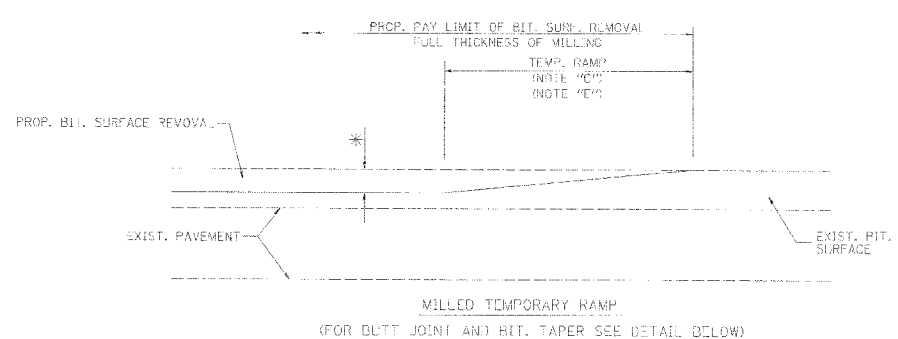
REV. NO.	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**STORM SEWER CONNECTION TO EXISTING SEWER**

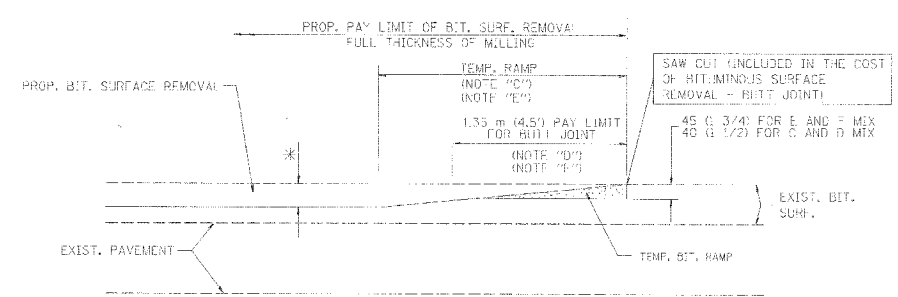
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DATE: 8/7/2006  
DRAWN BY: PMM  
DESIGN BY: BLL  
CHECKED BY:  

12/10/2006  
C:\p01\proj\104479\104479.dwg  
V1-000

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



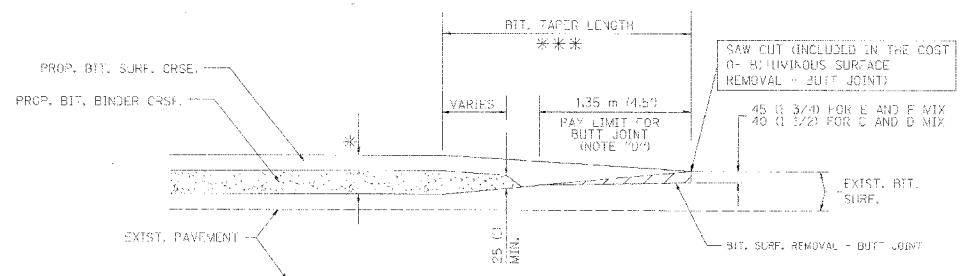
OPTION 1



BITUMINOUS CONSTRUCTED TEMPORARY RAMP  
(FOR BUTT JOINT AND BIT. TAPER SEE DETAIL BELOW)

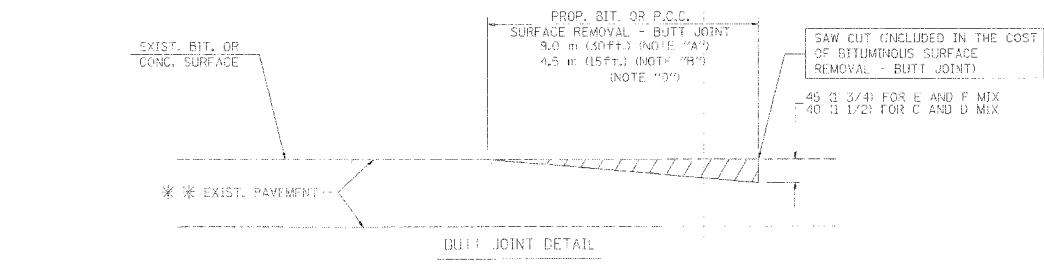
OPTION 2

TYPICAL TEMPORARY RAMP

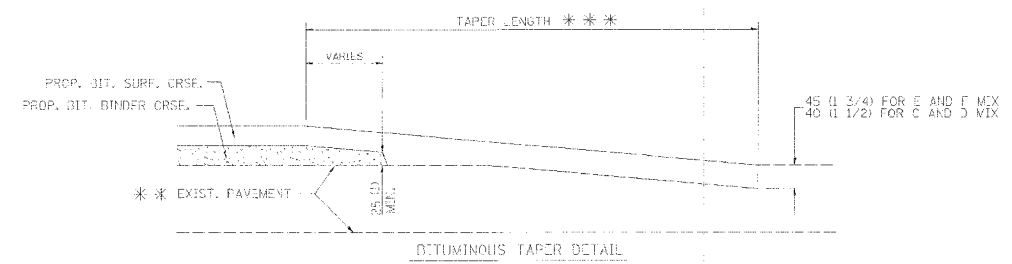


BUTT JOINT AND BITUMINOUS TAPER

TYPICAL BUTT JOINT AND BITUMINOUS TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



BITUMINOUS TAPER DETAIL

TYPICAL BUTT JOINT AND BITUMINOUS TAPER FOR RESURFACING ONLY

\*\*\* FC CONCRETE, BITUMINOUS OR BITUMINOUS RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING BITUMINOUS SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED BITUMINOUS COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 900 (3.94) PER INCH OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 1.35 m (4.5') TEMP. BIT. RAMP WILL BE PAID AS "BITUMINOUS SURFACE REMOVAL - BUTT JOINT".
- G: SEE ARTICLE 406.18 AND 406.21 OF THE STANDARD SPECIFICATIONS FOR "BITUMINOUS AND PCC SURFACE REMOVAL - BUTT JOINT".
- \* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- \* \* \* 6.1 m (20') PER 25 (1) RESURFACING (NOTE "A")  
3.0 m (10') PER 25 (1) RESURFACING (NOTE "B")

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR PER SQUARE METER (SQUARE YARD) AS "BITUMINOUS SURFACE REMOVAL - BUTT JOINT" OR AS "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

REVISIONS	
NAME	DATE
W. DE YONG	6-13-80
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/25/94
R. ARRAJ	03/21/97
M. GOMEZ	12/06/00

ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND BITUMINOUS TAPER DETAILS

SCALE: NONE  
DRAWN BY: PMW  
CHECKED BY: BLL  
DATE PLOTTED: 10/18/2002  
B0400-05 (VI-8032)  
REVISION: 02/01/03

REVISIONS	
NAME	DATE

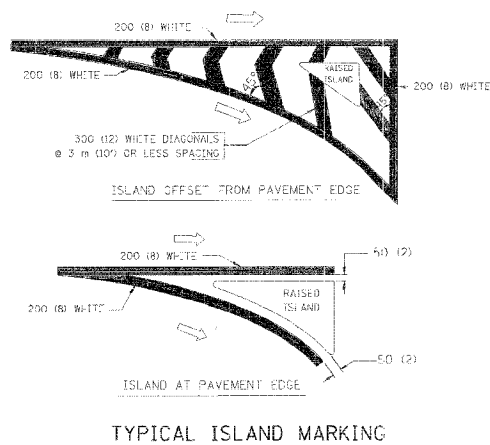
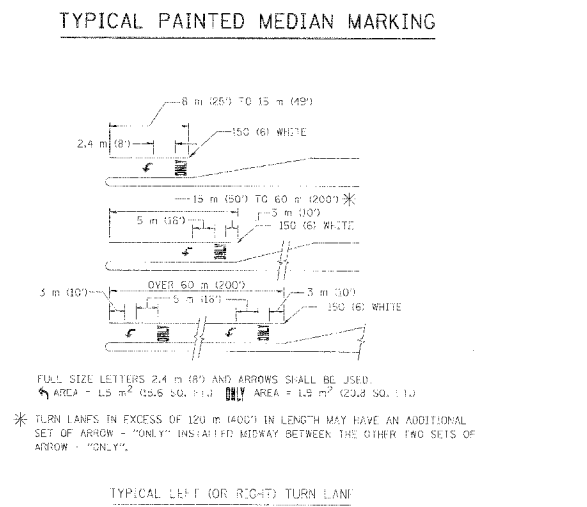
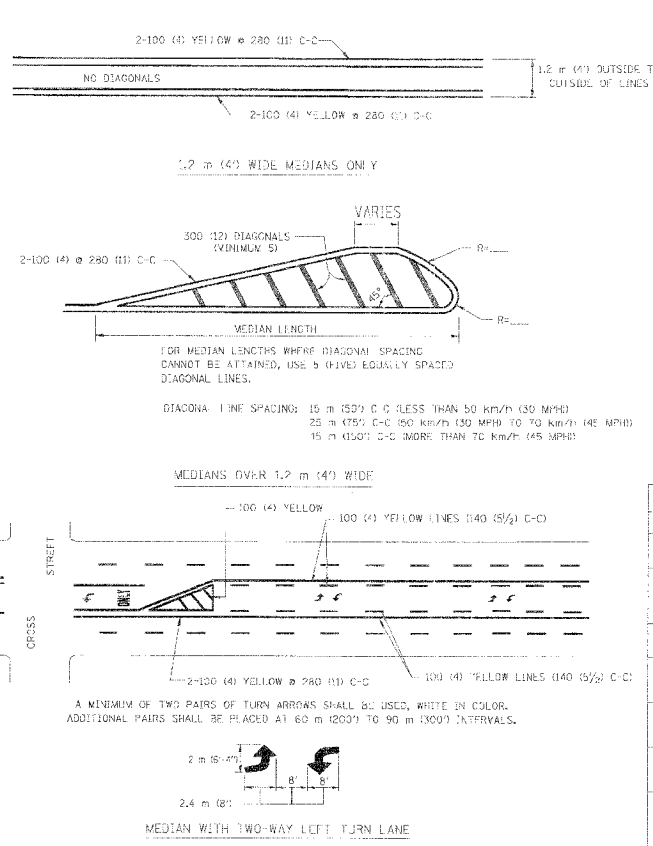
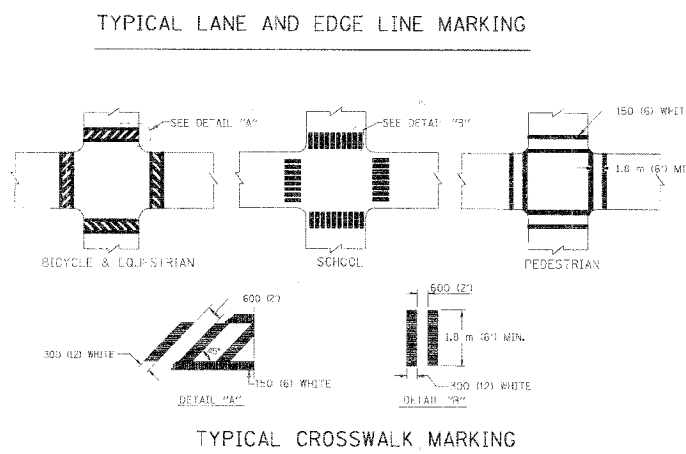
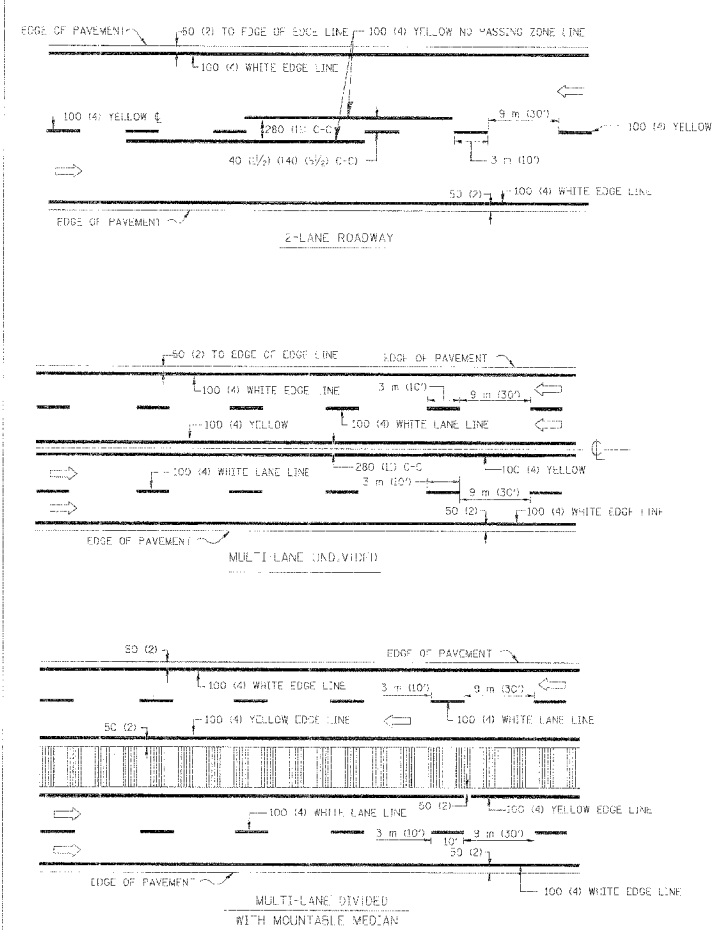
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BUTT JOINT AND BITUMINOUS TAPER**

SCALE: NONE  
DRAWN BY: PMW  
DESIGN BY: BLL  
CHECKED BY:   
DATE: 8/7/2006

N:\Westch\04479\04479.TBL







TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	100 (4')	SKIP-DASH	YELLOW	3 m (10') LINE WITH 9 m (30') SPACE
CENTERLINE ON MULTILANE PAVEMENT	7 @ 100 (4')	SOLID	YELLOW	280 (11') C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	100 (4') 7 @ 100 (4')	SOLID SOLID	YELLOW YELLOW	140 (5 1/2') C-C FROM SKIP-DASH CENTERLINE 280 (11') C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	100 (4') 125 (5') ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	3 m (10') LINE WITH 9 m (30') SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	600 (21') LINE WITH 1.8 m (6') SPACE
EDGE LINES	100 (4')	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	150 (6') LINE; FULL SIZE LETTERS & SYMBOLS (2.4 m (8'))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 100 (4') EACH DIRECTION 2.4 m (8') LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	3 m (10') LINE WITH 9 m (30') SPACE FOR SKIP-DASH; 140 (5 1/2') C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN, BICYCLE & EQUESTRIAN, LONGITUDINAL BAYS (SCHOOL))	2 @ 150 (6') 300 (12') @ 45° 300 (12') @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 1.8 m (6') APART 600 (21') APART 800 (27') APART SEE TYPICAL CROSSWALK MARKING DETAILS
STOP LINES	600 (24')	SOLID	WHITE	PLACE 1.2 m (4') IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRACTICABLE; OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSWALK CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 100 (4') WITH 300 (12') DIAGONALS @ 45° NO DIAGONALS USED FOR 1.2 m (4') WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	280 (11') C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING
CORE MARKING AND CHANNELIZATION LINES	200 (8') WITH 300 (12') DIAGONALS @ 45°	SOLID	WHITE	DIAGONAL @ 45° 4.5 m (15') C-C (LESS THAN 50 km/h (30 MPH)) 6 m (20') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 9 m (30') C-C (OVER 70 km/h (45 MPH))
RAILROAD CROSSING	600 (24') TRANSVERSE LINES; "RR" IS 1.8 m (6') LETTERS; 400 (16') LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: 400 (16') x 300 (12') (13.5 SQ. FT.) EACH "X" = 5.0 m (16.4') x 5.0 (16.4') FT.
SHOULDER DIAGONALS	300 (12') @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	15 m (50') C-C (LESS THAN 50 km/h (30 MPH)) 25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 45 m (150') C-C (OVER 70 km/h (45 MPH))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in millimeters (inches) unless otherwise shown.

REVISIONS	NAME	DATE
1	EVERS	03-19-90
2	T. RAMMACHER	10-27-94
3	ALEX HOUSER	10-09-98
4	ALEX HOUSER	10-17-98
5	T. RAMMACHER	01-08-00

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DISTRICT ONE  
TYPICAL PAVEMENT MARKINGS

SCALE: NONE  
DATE: 10/16/2002  
DRAWN BY: CAUD  
CHECKED BY: TC-13  
REVISION DATE: 01/06/00

REVISIONS	NAME	DATE

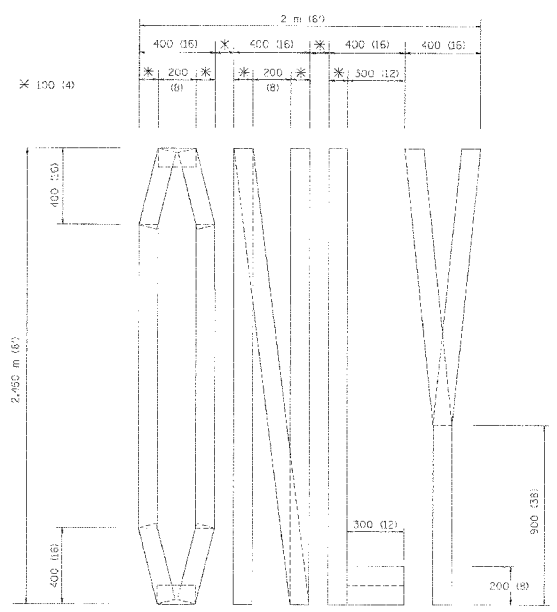
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**DISTRICT ONE TYPICAL PAVEMENT MARKINGS**

SCALE: NONE  
DATE: 8/7/2006  
DRAWN BY: PMM  
DESIGN BY: BLL  
CHECKED BY: 

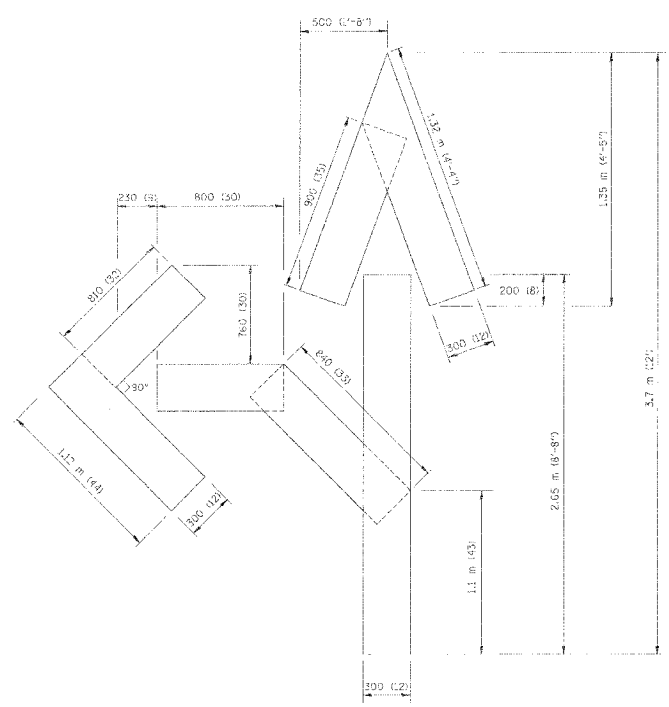
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	127
CONTRACT NO. 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

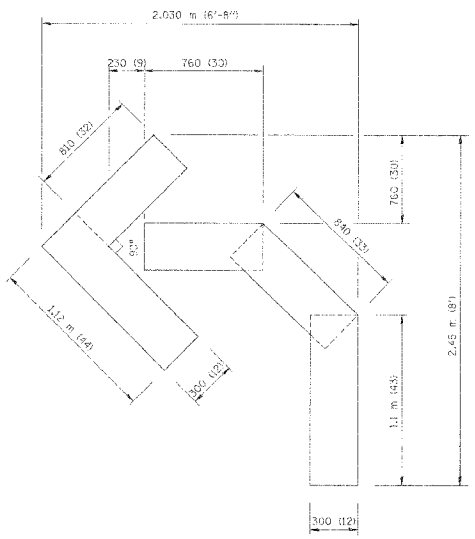
F.A. REC.	SECTION	COUNTY	SHEET NO.
STA.	TO STA.		
FED. ROAD DIST. NO.	F.A. PROJECT	FED. AID PROJECT	



QUANTITY  
 100 (4) LINE = 19.7 m (64.1 ft.)  
 1.97 sq. m (21.1 sq. ft.)



QUANTITY  
 100 (4) LINE = 25.3 m (82.5 ft.)  
 2.53 sq. m (27.5 sq. ft.)



QUANTITY  
 100 (4) LINE = 13.9 m (45.6 ft.)  
 1.39 sq. m (15.2 sq. ft.)

All dimensions are in millimeters (inches) unless otherwise shown.

ILLINOIS DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING**

SCALE: NONE  
 DATE: 10/18/2002

DRAWN BY: CABD  
 CHECKED BY: TC-16

REVISION: DATE: 08/28/00

REVISIONS	NAME	DATE
1	T. RAMMACKER	09/18/94
2	J. OSERLE	08/31/96
3	T. RAMMACKER	05/05/98
4	T. RAMMACKER	11/24/98
5	T. RAMMACKER	03/02/99
6	E. GOMEZ	08/28/00

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 c:\p\meta\data\1218.dgn LV:NE:1  
 07/26

N:\WestCh1\04479\04479.TBL

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

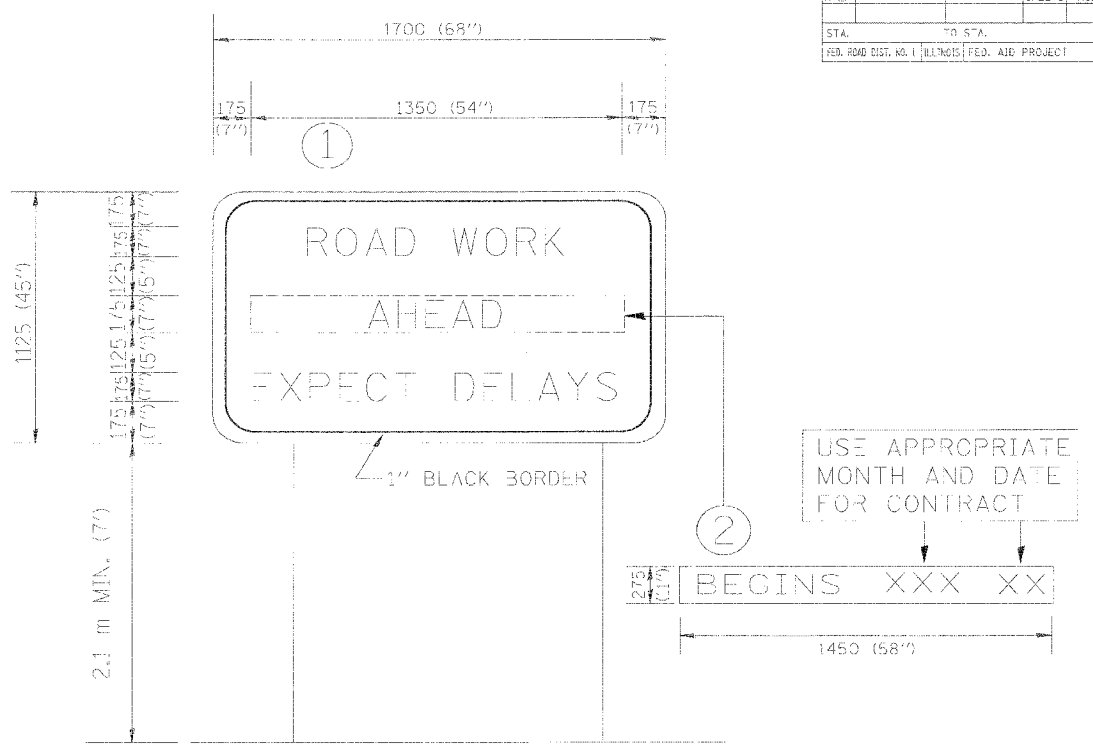
**PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING**

SCALE: NONE  
 DATE: 8/7/2006

DRAWN BY: PMM  
 DESIGN BY: BLL  
 CHECKED BY:

F.A.D. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	128
CONTRACT NO. 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA. TO STA.				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



**NOTES:**

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 2.3 SQ. M. (25.70 SQ. FT.)

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE	TEMPORARY INFORMATION SIGNING	
H. VIRS	9-15-97		
R. VIRS	2-11-98		
T. RAMMACHER	2-2-99		

SCALE: DRAWN BY: BURL OF DESIGN  
 DATE: 10/18/2002 CHECKED BY:  
 1022 REVISION DATE: 10/18/02

Friday, October 16, 2004 8:10:25 AM  
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N:\WestCh\04479\04479.tbl

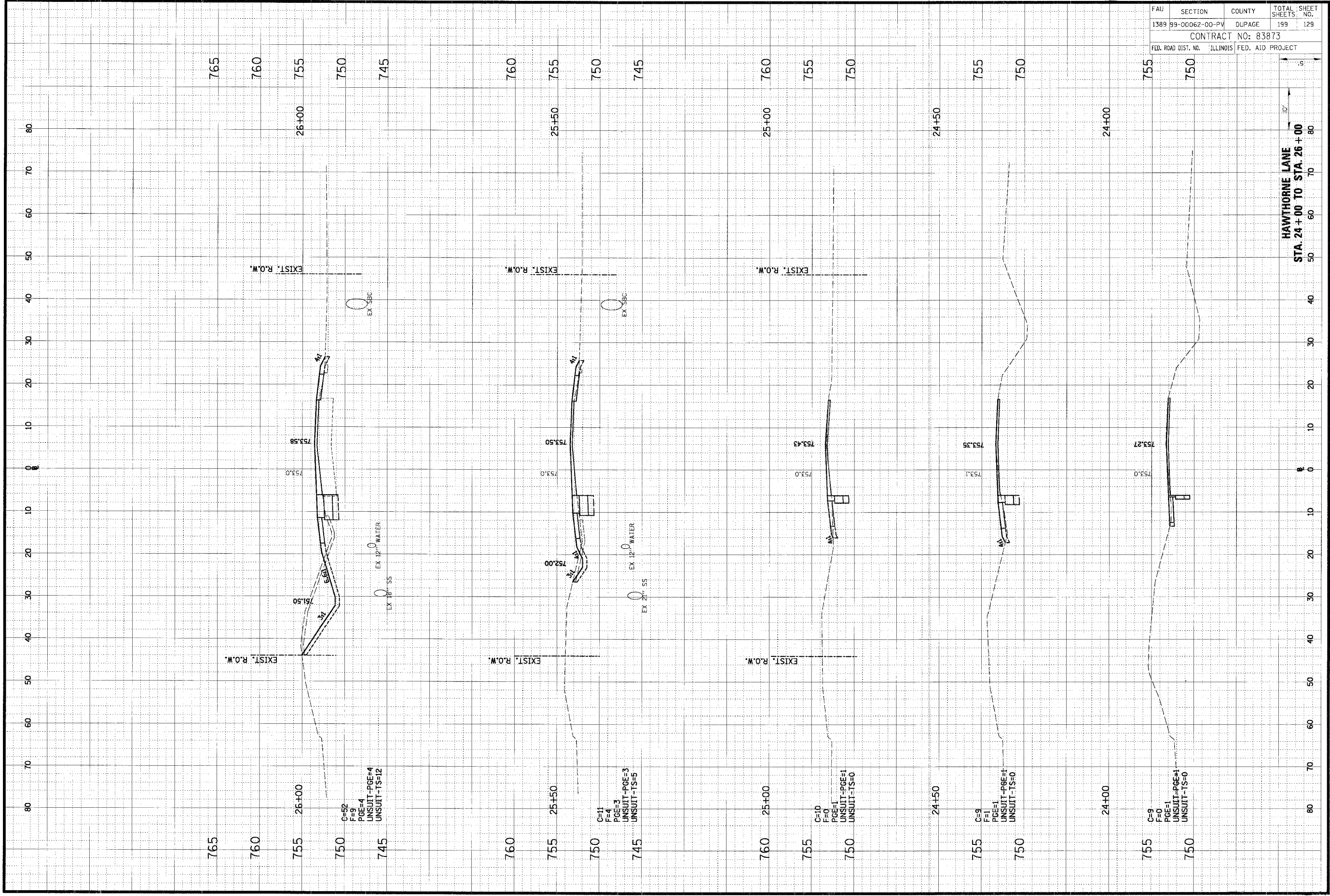
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE	TEMPORARY INFORMATION SIGNING	

SCALE: NONE DRAWN BY: PMM  
 DATE: 8/7/2006 DESIGN BY: BLL  
 CHECKED BY:

ORIGINAL	SURVEYED	BY	DATE
SHEET	PLOTTED		
NOTE BOOK	TEMP. AT		
	AREAS CHECKED		

FINAL	SURVEYED	BY	DATE
SHEET	PLOTTED		
NOTE BOOK	TEMP. AT		
	AREAS CHECKED		

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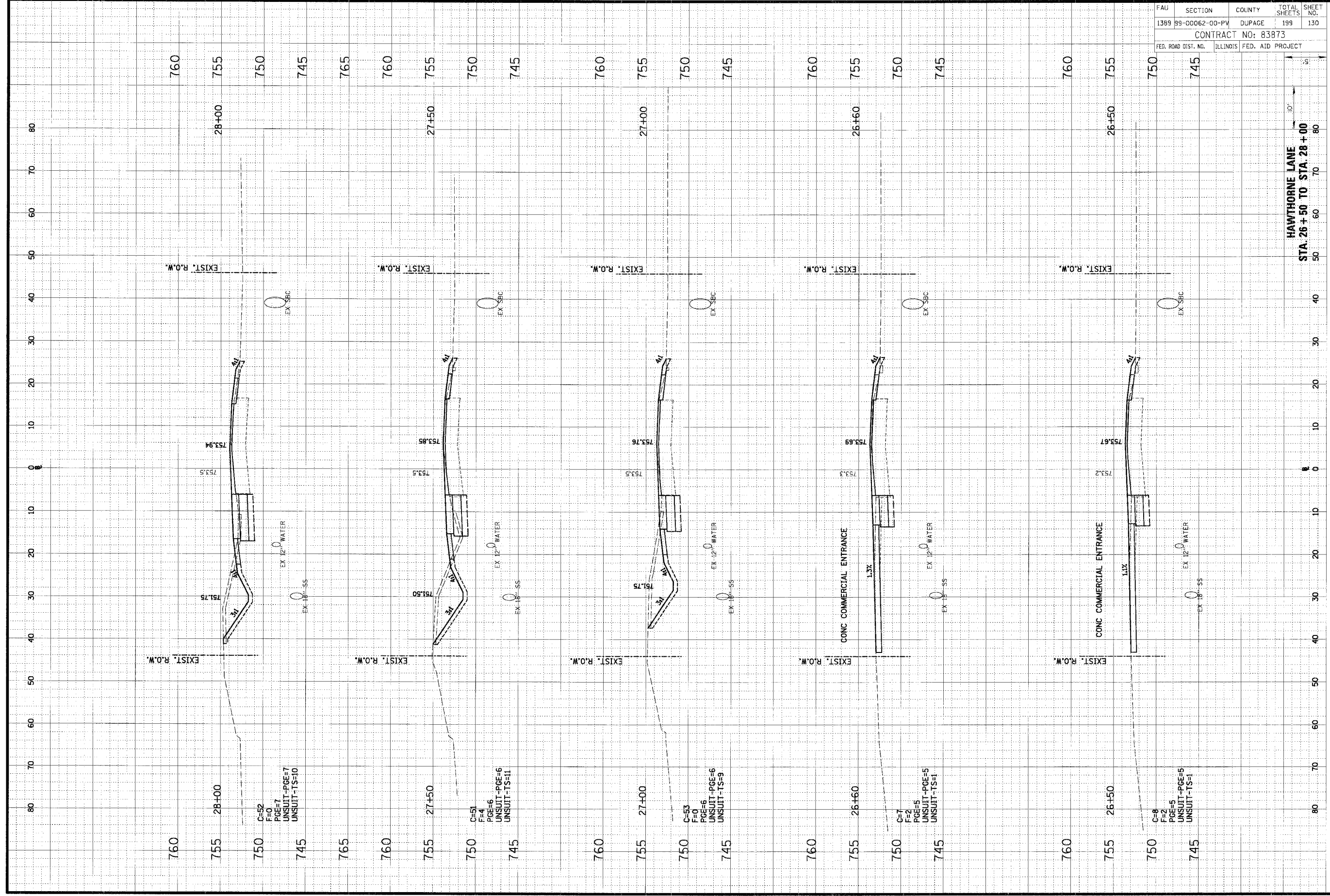
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1389	99-00062-00-PV	DUPAGE	199	129
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

HAWTHORNE LANE  
 STA. 24+00 TO STA. 26+00

ORIGINAL SURVEY	DATE
NOTED	BY
REVISIONS	
AREAS CHECKED	
AREAS CHECKED	

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FINAL SURVEY	DATE
NOTED	BY
REVISIONS	
AREAS CHECKED	
AREAS CHECKED	

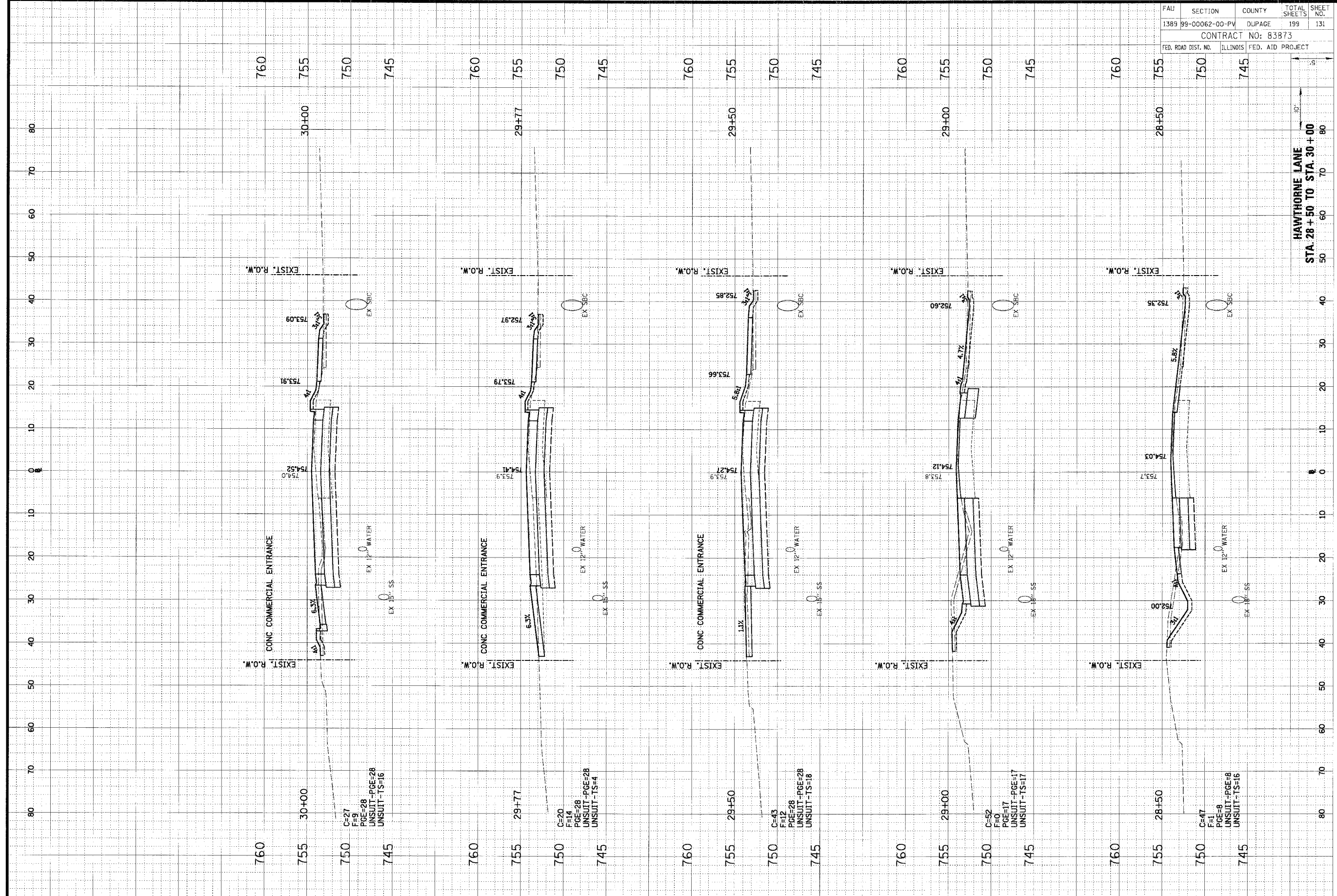


FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	130
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ORIGINAL SURVEY NO.	DATE
BY	
REVISIONS	
NO.	DESCRIPTION

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 Rosemont, Illinois 60018  
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FINAL SURVEY NO.	DATE
BY	
REVISIONS	
NO.	DESCRIPTION



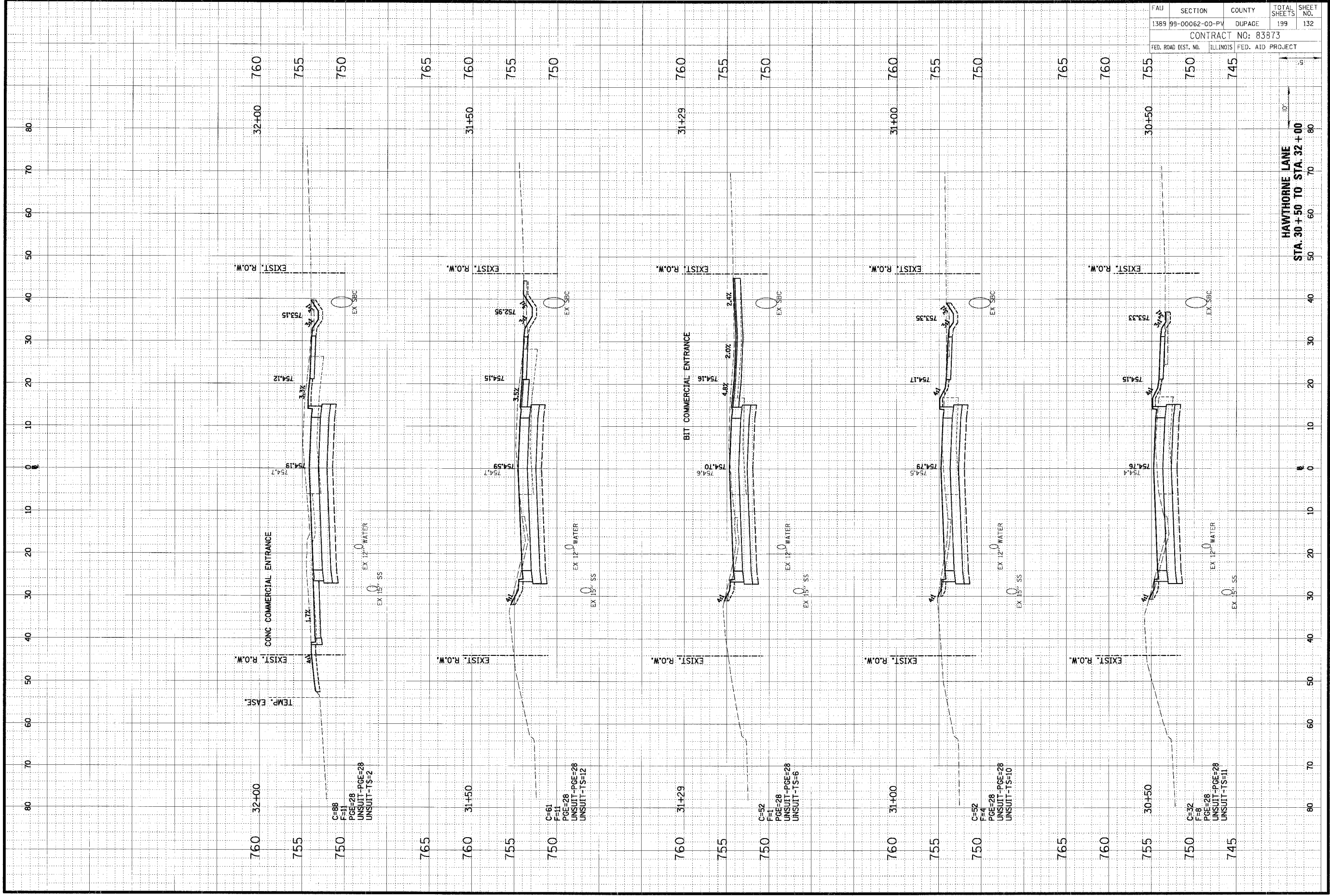
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1389	99-00062-00-PV	DUPAGE	199	131
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

HAWTHORNE LANE  
 STA. 28+50 TO STA. 30+00

ORIGINAL	SURVEYED	BY	DATE
SUBMIT	PLotted		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

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FINAL	PLotted	DATE
SURVEY	TEMPLATE	
NOTE BOOK	AREAS CHECKED	
NO.		



FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	132
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

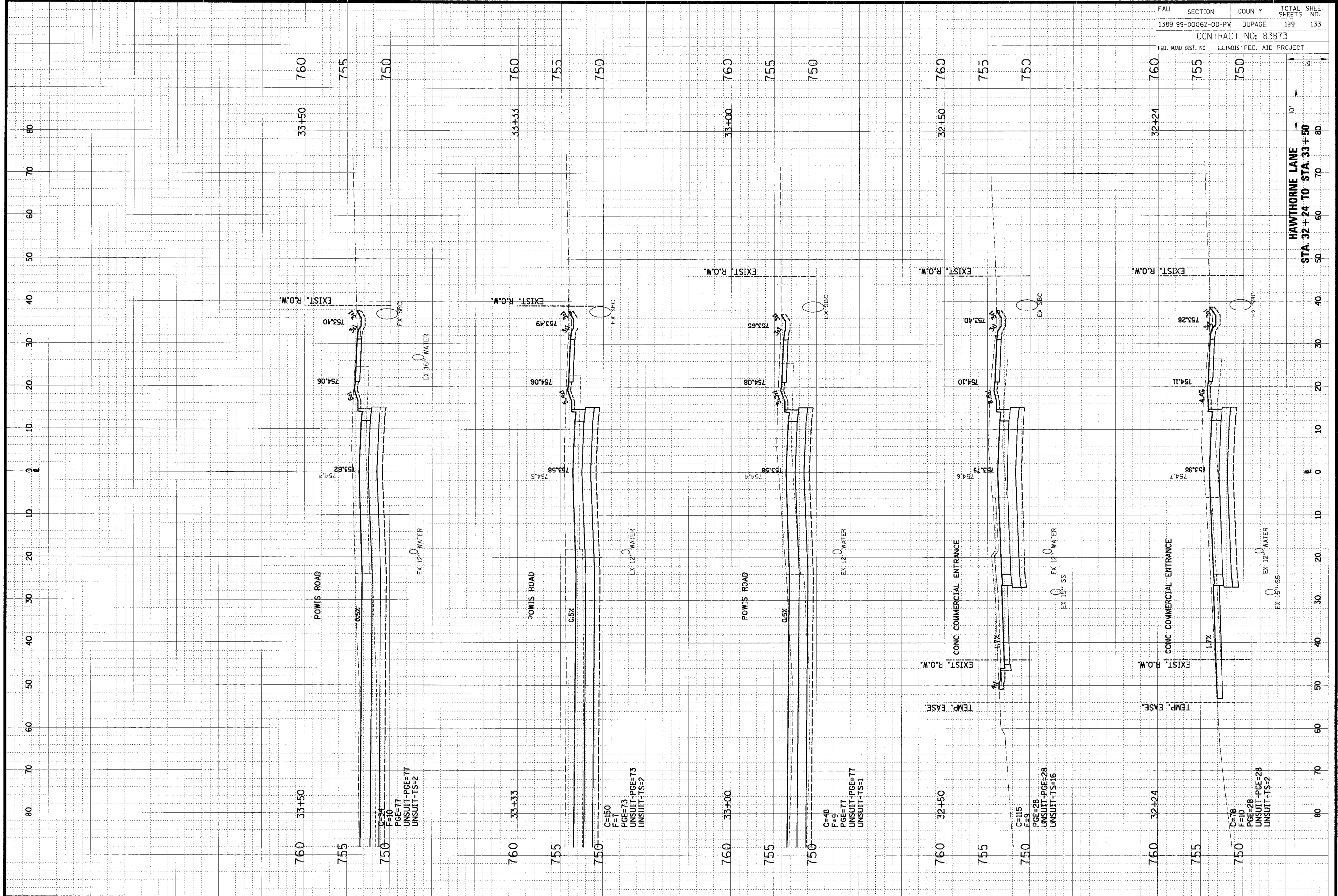
HAWTHORNE LANE  
 STA. 30+50 TO STA. 32+00



ORIGINAL	SUBMITTED	DATE
SHEET	FLOTTED	BY
NO. E. BOOK	TEMPLATE	
NO.	AREAS CHECKED	

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FINAL	SUBMITTED	DATE
SURVEY	FLOTTED	BY
NOTE BOOK	TEMPLATE	
NO.	AREAS CHECKED	

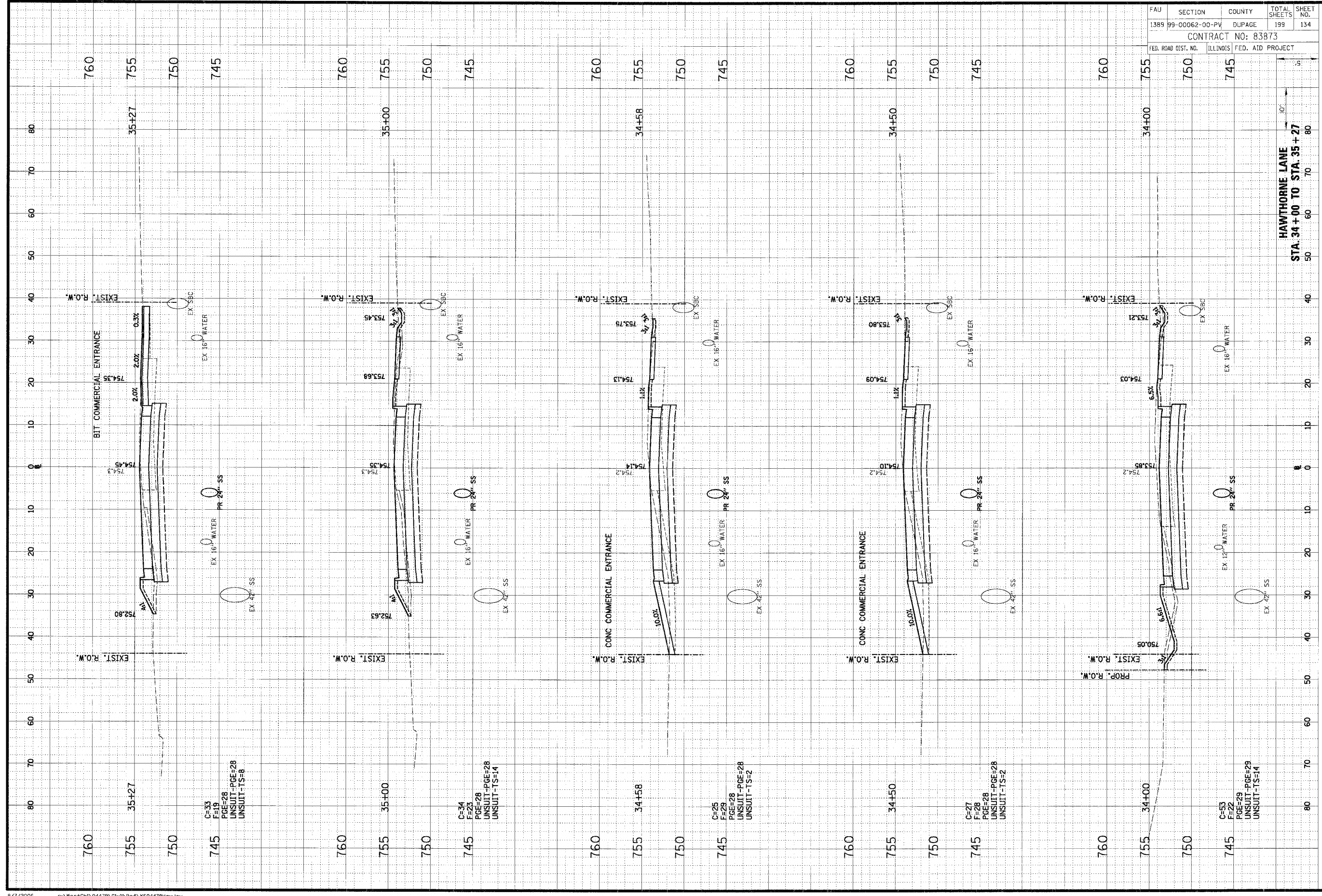


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1389	99-00062-00-PV	DUPAGE	199	133
CONTRACT NO: 83973				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

ORIGINAL SURVEY DATE  
 NOTE BOOK, TEMPLATE AREAS CHECKED  
 NO. PREPARED BY DATE

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FINAL SURVEY DATE  
 NOTE BOOK, TEMPLATE AREAS CHECKED  
 NO. PREPARED BY DATE



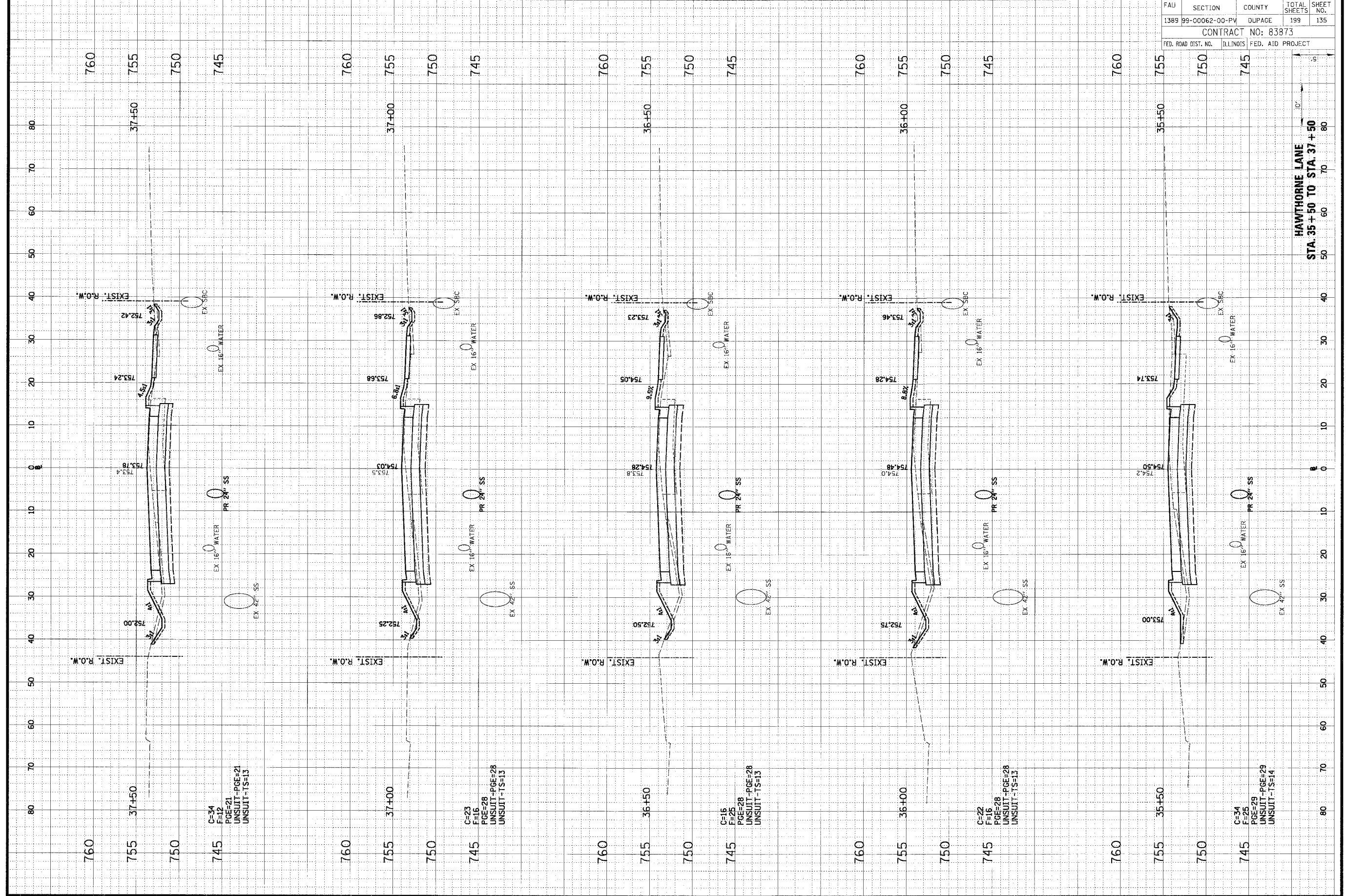
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1389	99-00062-00-PV	DUPAGE	198	134
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

HAWTHORNE LANE  
 STA. 34+00 TO STA. 35+27

ORIGINAL SURVEY	DATE
BY	
BY	
BY	
BY	

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FINAL SURVEY	DATE
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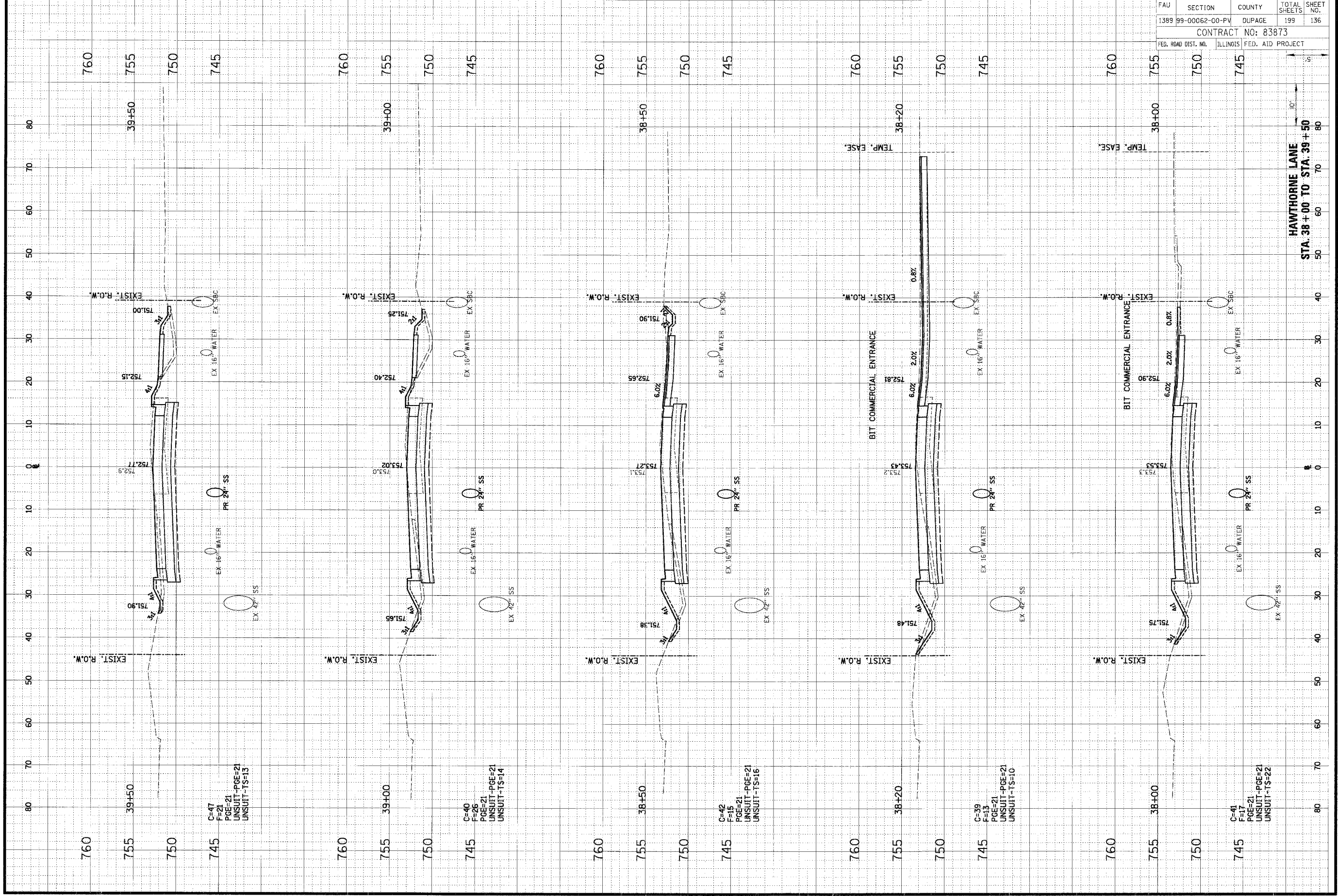


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1389	99-00062-00-PV	DUPAGE	199	135
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ORIGINAL	SURVEYED	BY	DATE
SHEET	PLOTTED	BY	DATE
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

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FINAL	REVISION	BY	DATE
SURVEY	PLotted		
NO'E BODY	EDLATE		
AREAS	AREAS		
CHECKED	CHECKED		

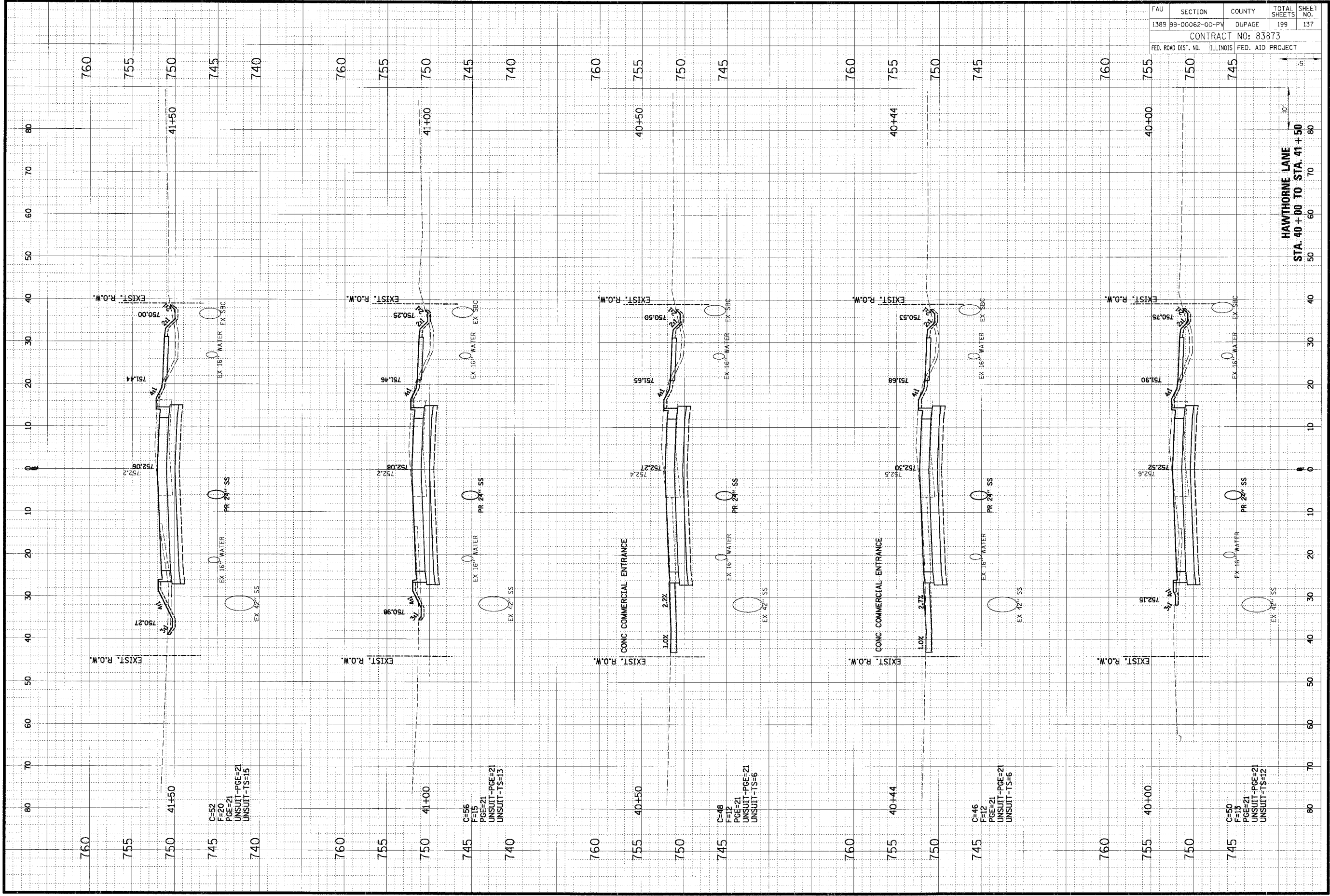


FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	136
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ORIGINAL SURVEYED	DATE
SHEET PLOTTED	BY
NOTE BOOK	
REVISIONS	
NO.	

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FINAL SURVEYED	DATE
NOTE BOOK	BY
REVISIONS	
NO.	



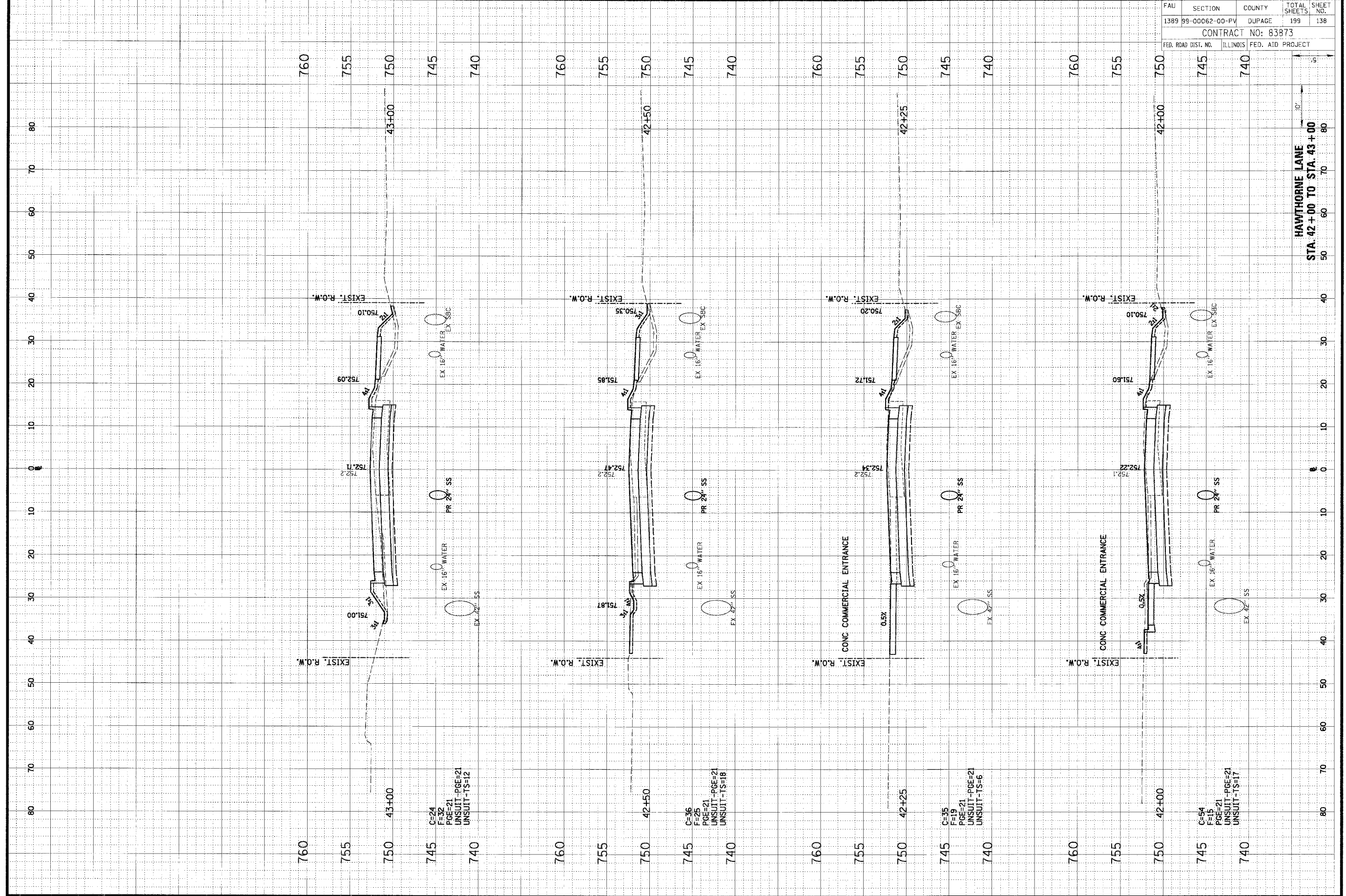
FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	137
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

HAWTHORNE LANE  
 STA. 40+00 TO STA. 41+50

ORIGINAL SURVEY BY DATE  
 NOTE BOOK TEMPLATE AREAS CHECKED

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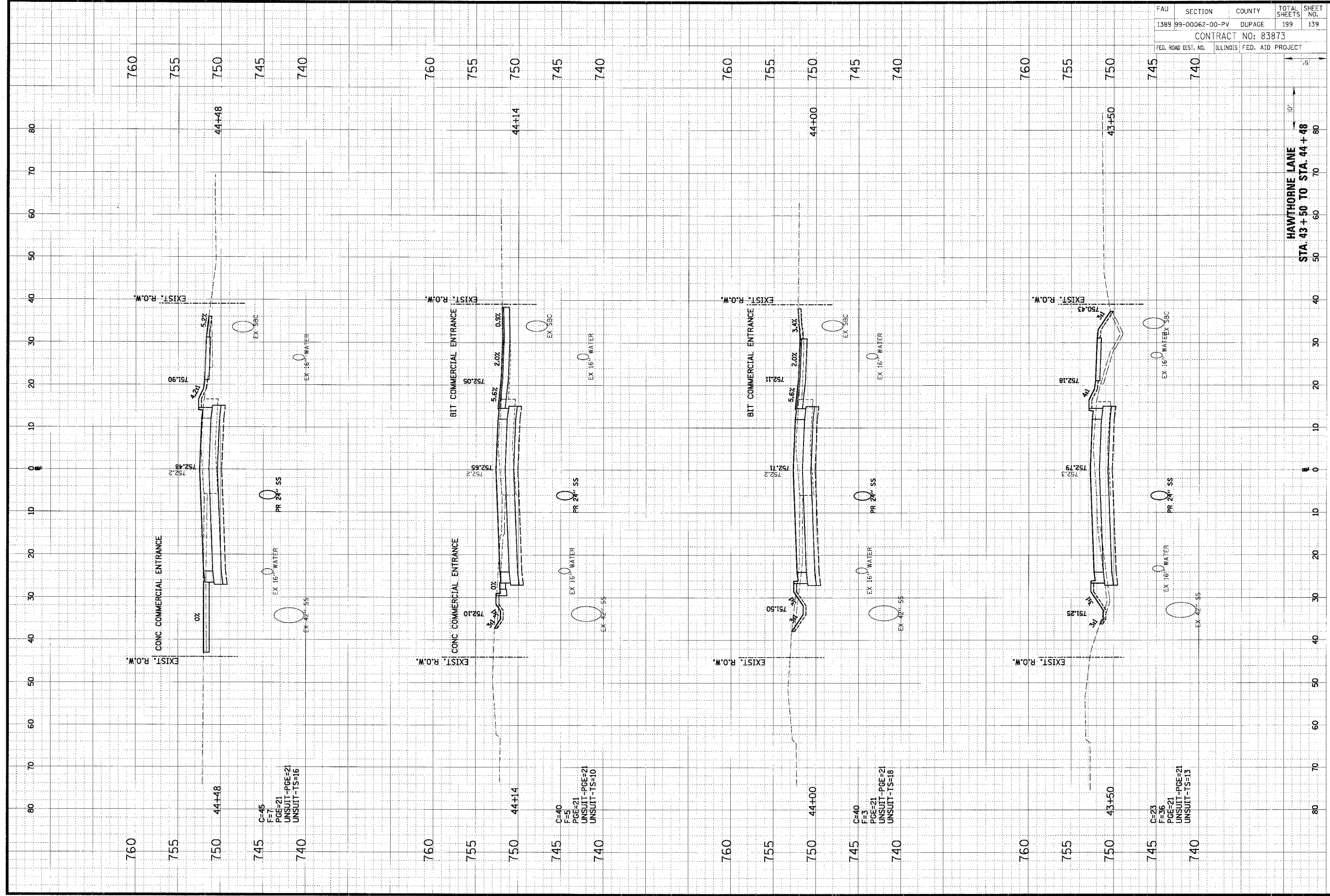


FAD	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	138
CONTRACT NO: 83873				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

ORIGINAL SURVEY	DATE
BY	
NO. 1 BOOK	
NO. 2 BOOK	
NO. 3 BOOK	
NO. 4 BOOK	
NO. 5 BOOK	
NO. 6 BOOK	
NO. 7 BOOK	
NO. 8 BOOK	
NO. 9 BOOK	
NO. 10 BOOK	

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FINAL SURVEY	DATE
BY	
NO. 1 BOOK	
NO. 2 BOOK	
NO. 3 BOOK	
NO. 4 BOOK	
NO. 5 BOOK	
NO. 6 BOOK	
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NO. 9 BOOK	
NO. 10 BOOK	



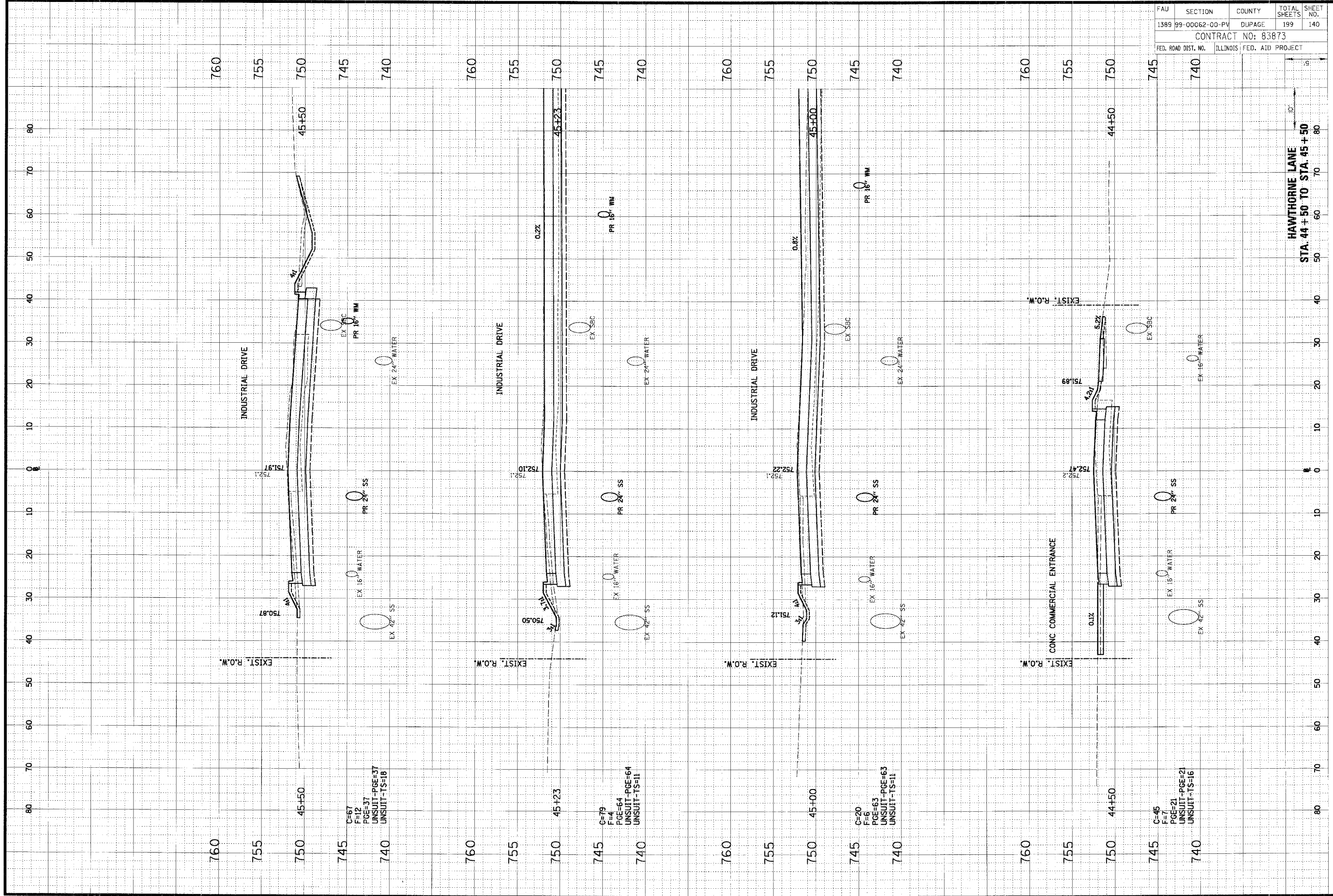
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1389	99-00062-00-PV	DUPAGE	199	139
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

HAWTHORNE LANE  
 STA. 43+50 TO STA. 44+48

ORIGINAL SURVEY	DATE
CHECKED	BY
NOTED	DATE
NO. _____	

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FINAL SURVEY	DATE
CHECKED	BY
NOTED	DATE
NO. _____	



FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	140
CONTRACT NO: 83873				
ILLINOIS FED. AID PROJECT				

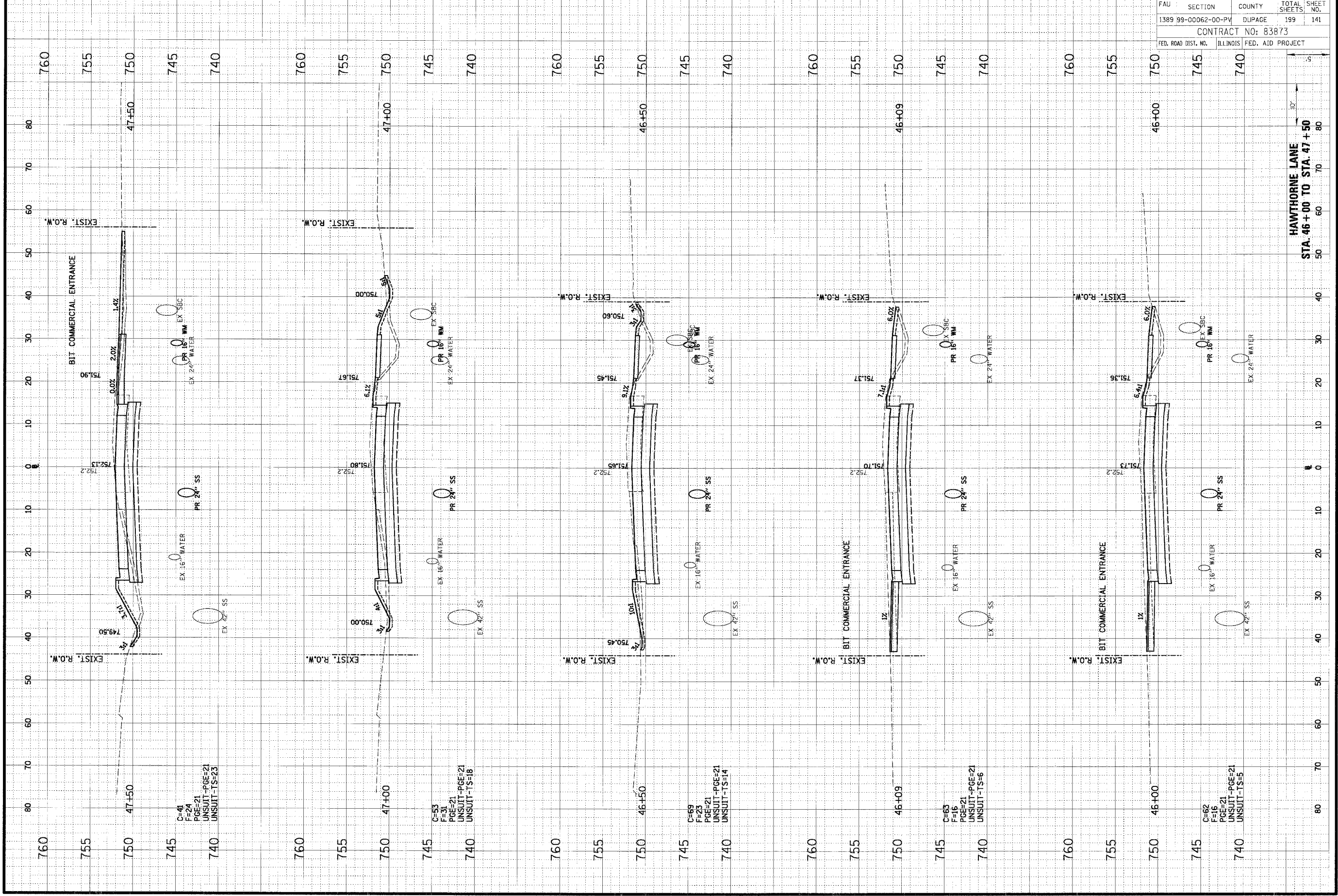
HAWTHORNE LANE  
 STA. 44+50 TO STA. 45+50



ORIGINAL SURVEY PLOT	DATE
FLYING	BY
ROUTE BOOK	NO.
REVISIONS	

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FINAL SURVEY PLOT	DATE
ROUTE BOOK	NO.
REVISIONS	



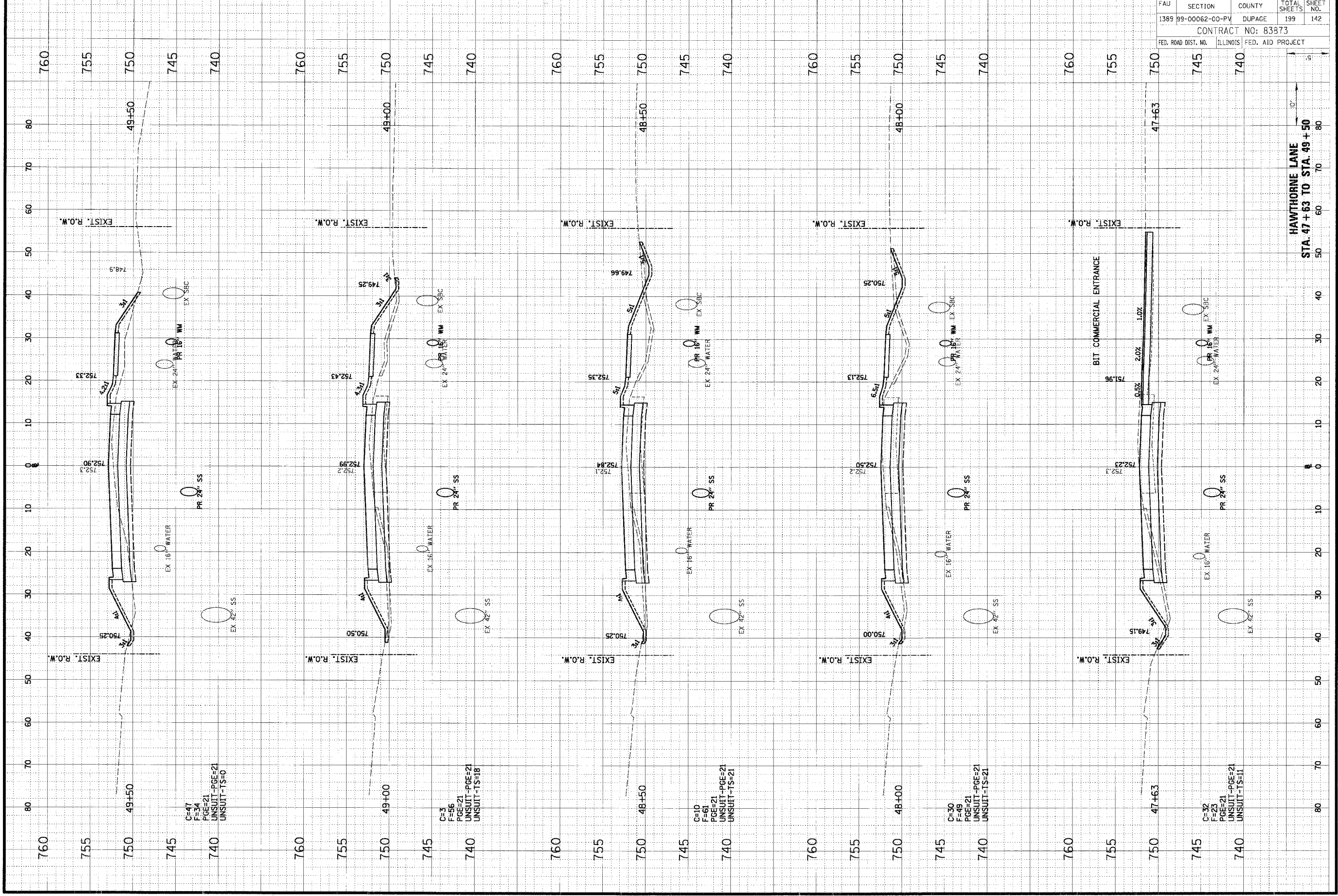
FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389 99-00062-00-PV	DUPAGE	ILLINOIS	199	141
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

HAWTHORNE LANE  
 STA. 46+00 TO STA. 47+50

ORIGINAL SURVEY	DATE:
FLUORESCENT PLOTTED	BY:
TEMPLATE	
NOTE BOOK	
REF'S CHECKED	
NO.	

**CB**  
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FIRM SURVEY	DATE:
NOTE BOOK	BY:
REF'S CHECKED	
NO.	



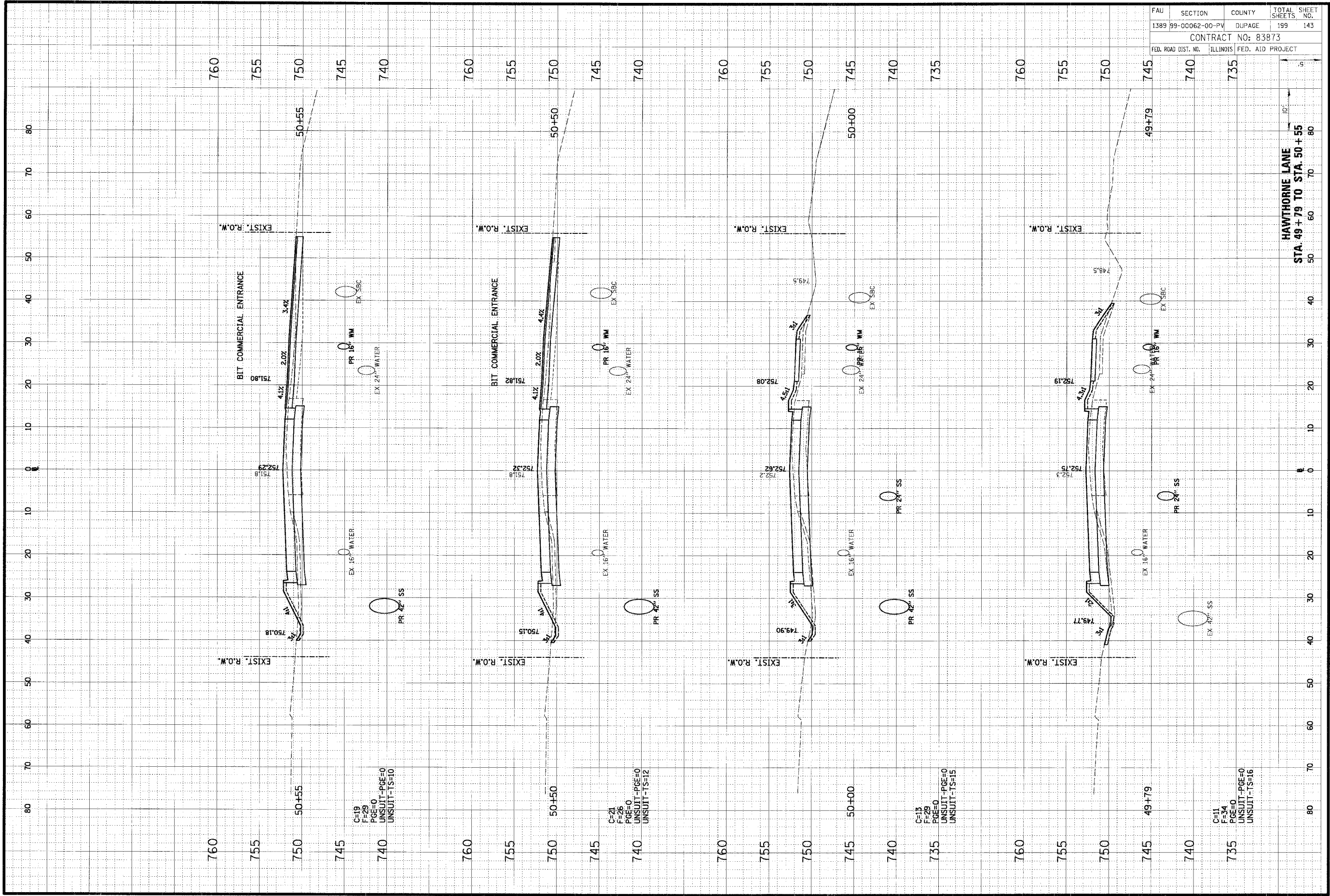
FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	142
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

HAWTHORNE LANE  
 STA. 47+63 TO STA. 49+50

ORIGINAL SURVEY	DATE
BY	DATE
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PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

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FINAL SURVEY	DATE
BY	DATE
NOTED	
TEMPLATE	
AREAS CHECKED	
NO.	



FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	143
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

HAWTHORNE LANE  
 STA. 49+79 TO STA. 50+55



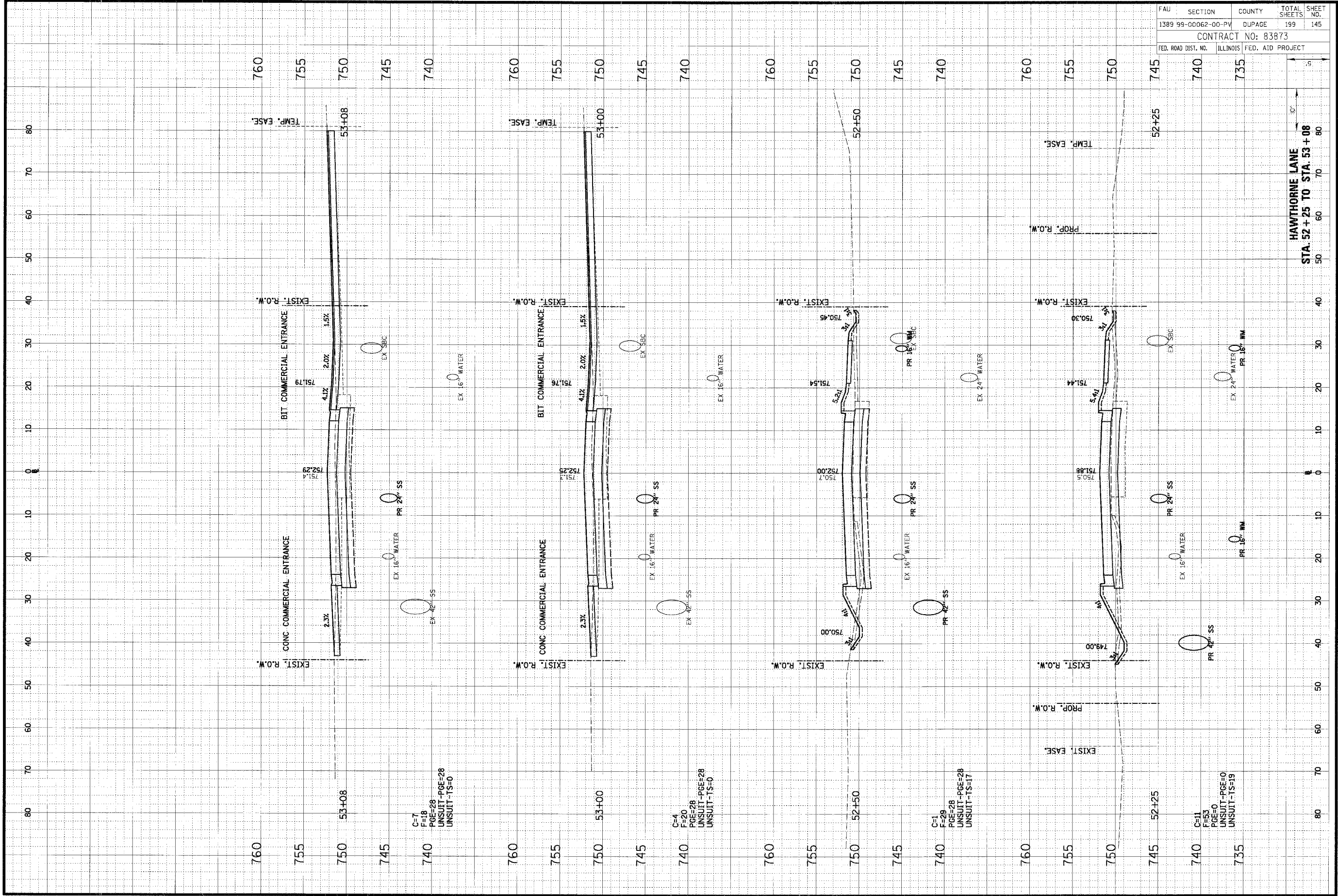
ORIGINAL SURVEY	SURVEYED	DATE
NOTED BOOK	PLOTTED	BY
NO.	TEMP. DATE	DATE
	AREAS CHECKED	
	AREAS PLANNED	

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FINAL SURVEY	SURVEYED	DATE
NOTED BOOK	PLOTTED	BY
NO.	TEMP. DATE	DATE
	AREAS CHECKED	
	AREAS PLANNED	

FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

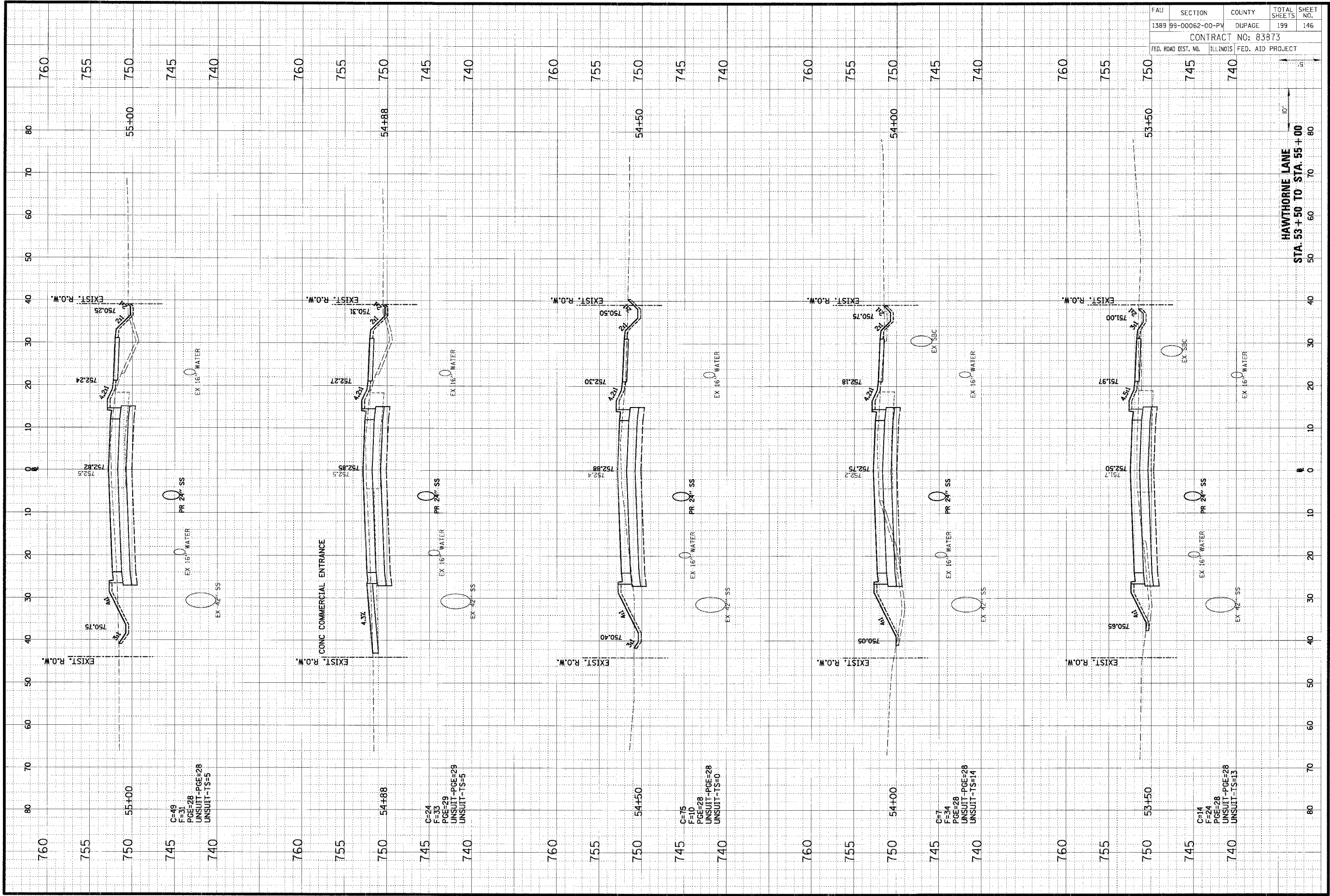


HAWTHORNE LANE  
 STA. 52+25 TO STA. 53+08

ORIGINAL	DATE
SURVEY	BY
NOTED	BY
REVISION	DATE

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FINI	SURVEYED	DATE
SIRRY	PLUMB	BY
NOTE BOOK	ADJULATE	
	AREAS CHECKED	



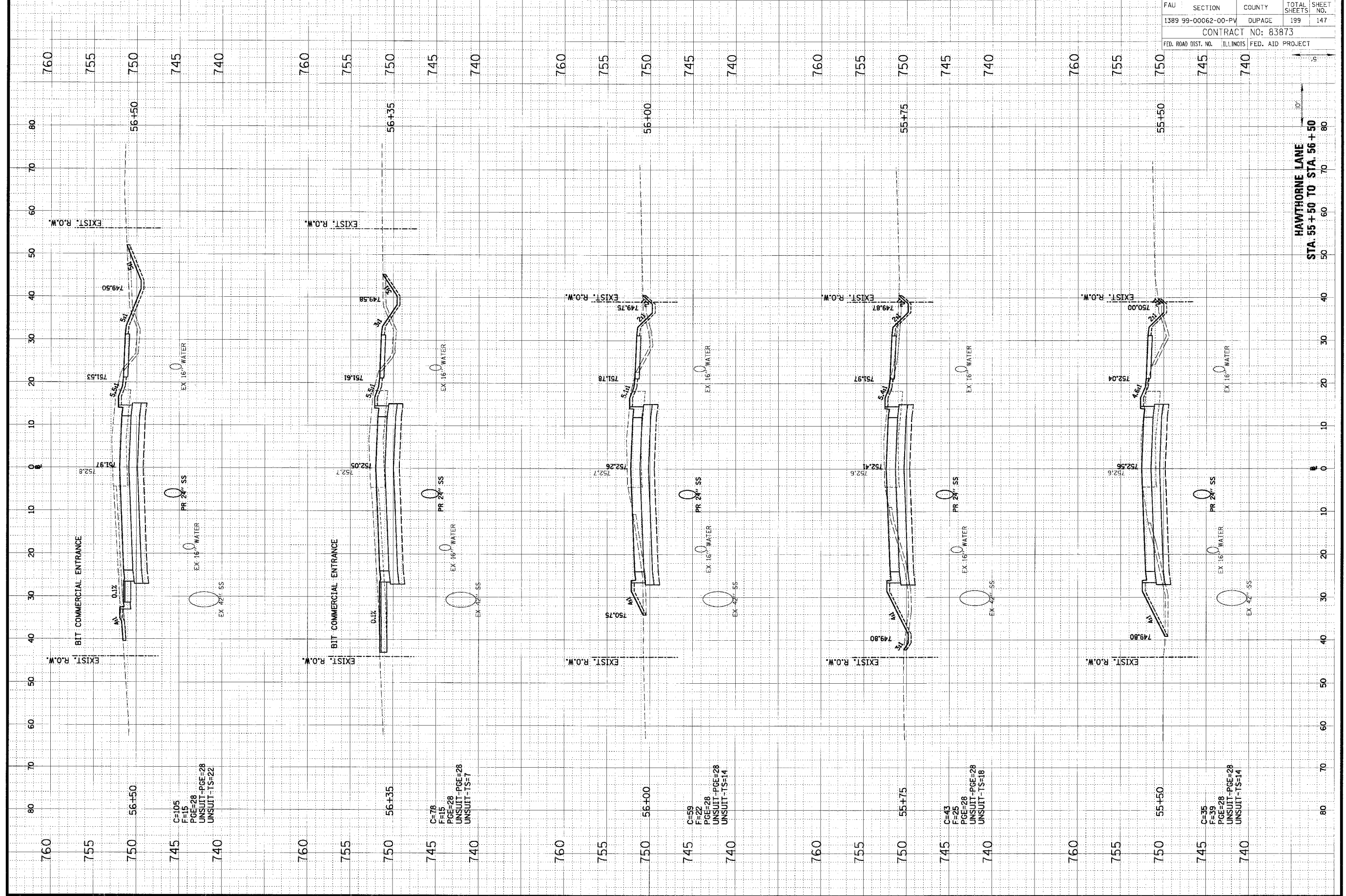
FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	146
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

HAWTHORNE LANE  
 STA. 53 + 50 TO STA. 55 + 00

ORIGINAL SURVEY	DATE
BY	
NOTE BOOK	
AREAS	
AREAS	

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FINAL SURVEY	DATE
BY	
NOTE BOOK	
AREAS	
AREAS	



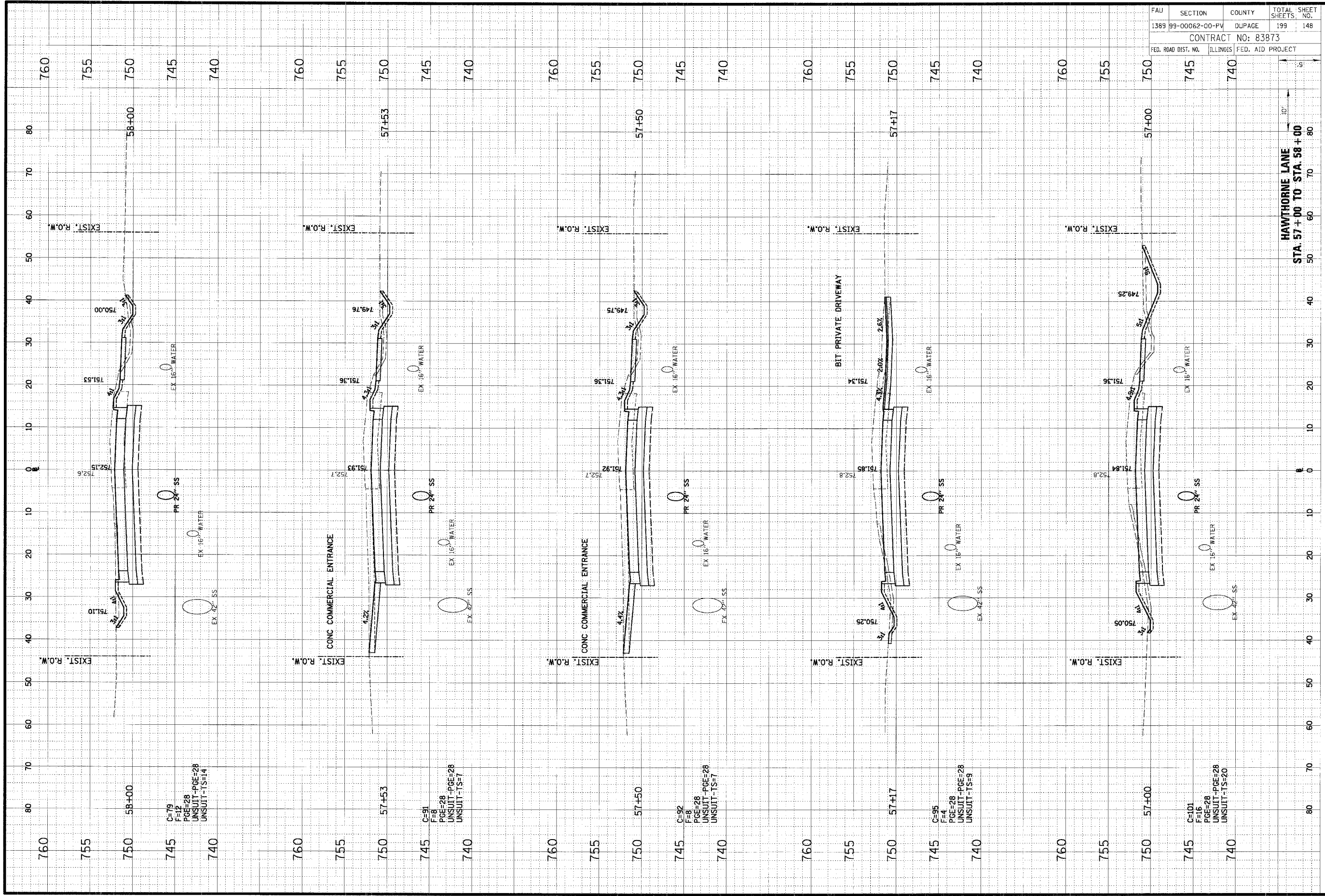
FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	147
CONTRACT NO: 83873				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

HAWTHORNE LANE  
 STA. 55+50 TO STA. 56+50

ORIGINAL	CHECKED	DATE
SUBMIT	PLOTTED	
NOTE BOOK	REVISION	
NO.	AREAS REVISION	

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FINAL	DATE
SUBMIT	
NOTE BOOK	
NO.	



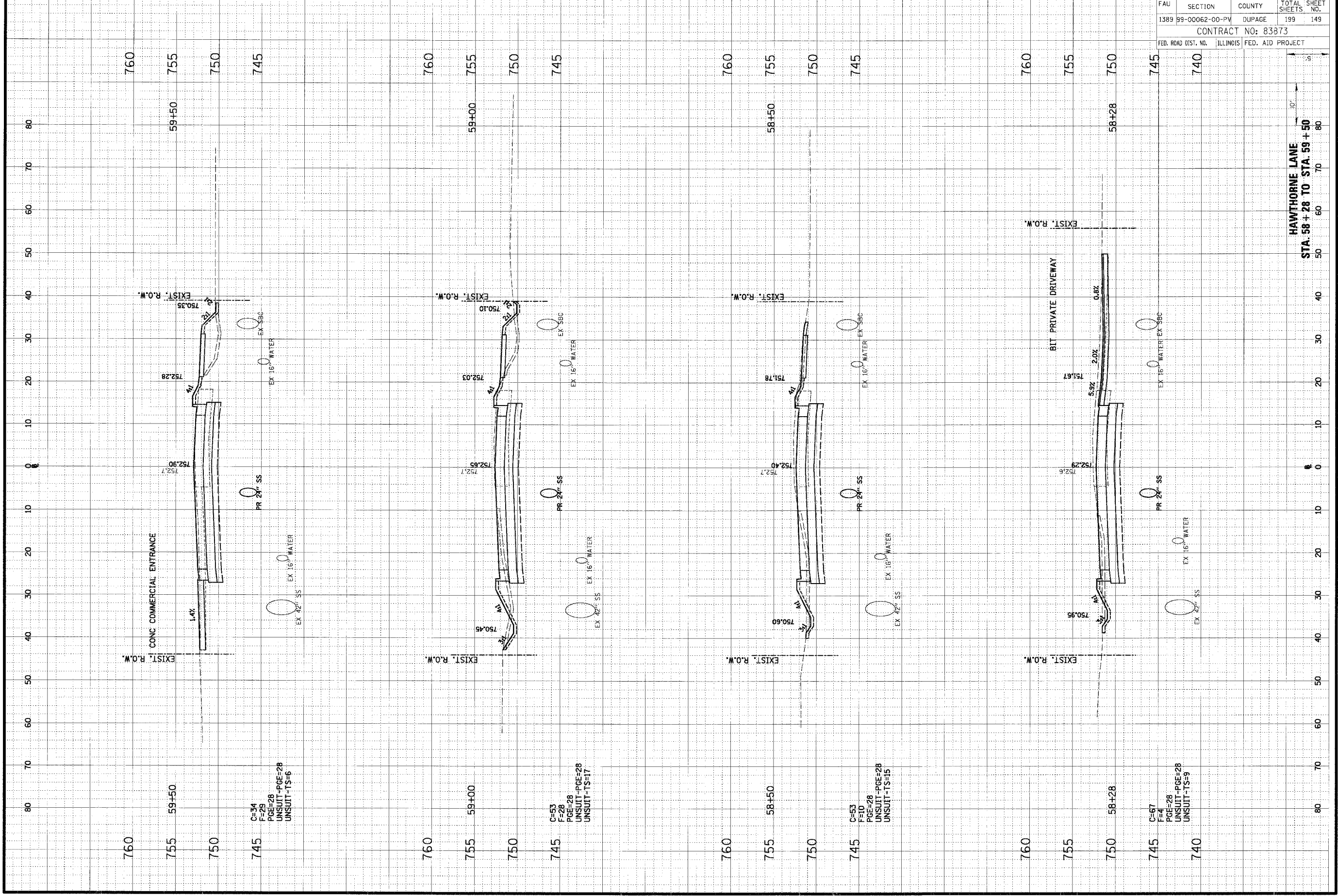
FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	148
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



ORIGINAL SURVEY	DATE
SURVEY PLOTTED	BY
NOTE BOOK	DATE
AREAS CHECKED	

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FINAL SURVEY	DATE
REVISIONS	BY
NOTE BOOK	
AREAS CHECKED	

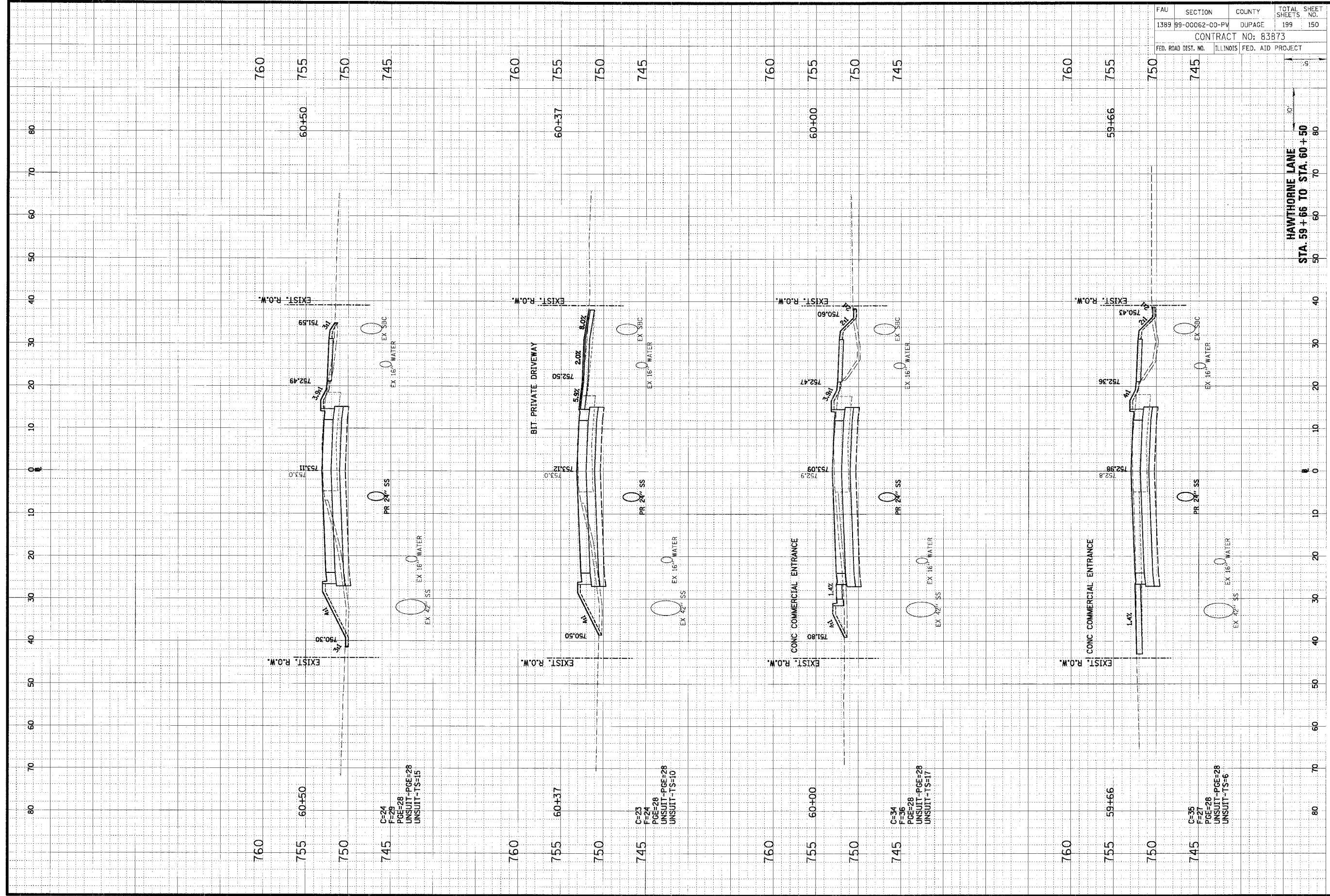


FAU	SECTION	COUNTY	TOTAL SHEETS
1389	99-00062-00-PV	DUPAGE	199
CONTRACT NO: 83873			149
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

ORIGINAL SURVEY	DATE
BY	
DATE	
BY	
DATE	
BY	
DATE	

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FINAL SURVEY	DATE
BY	
DATE	
BY	
DATE	
BY	
DATE	



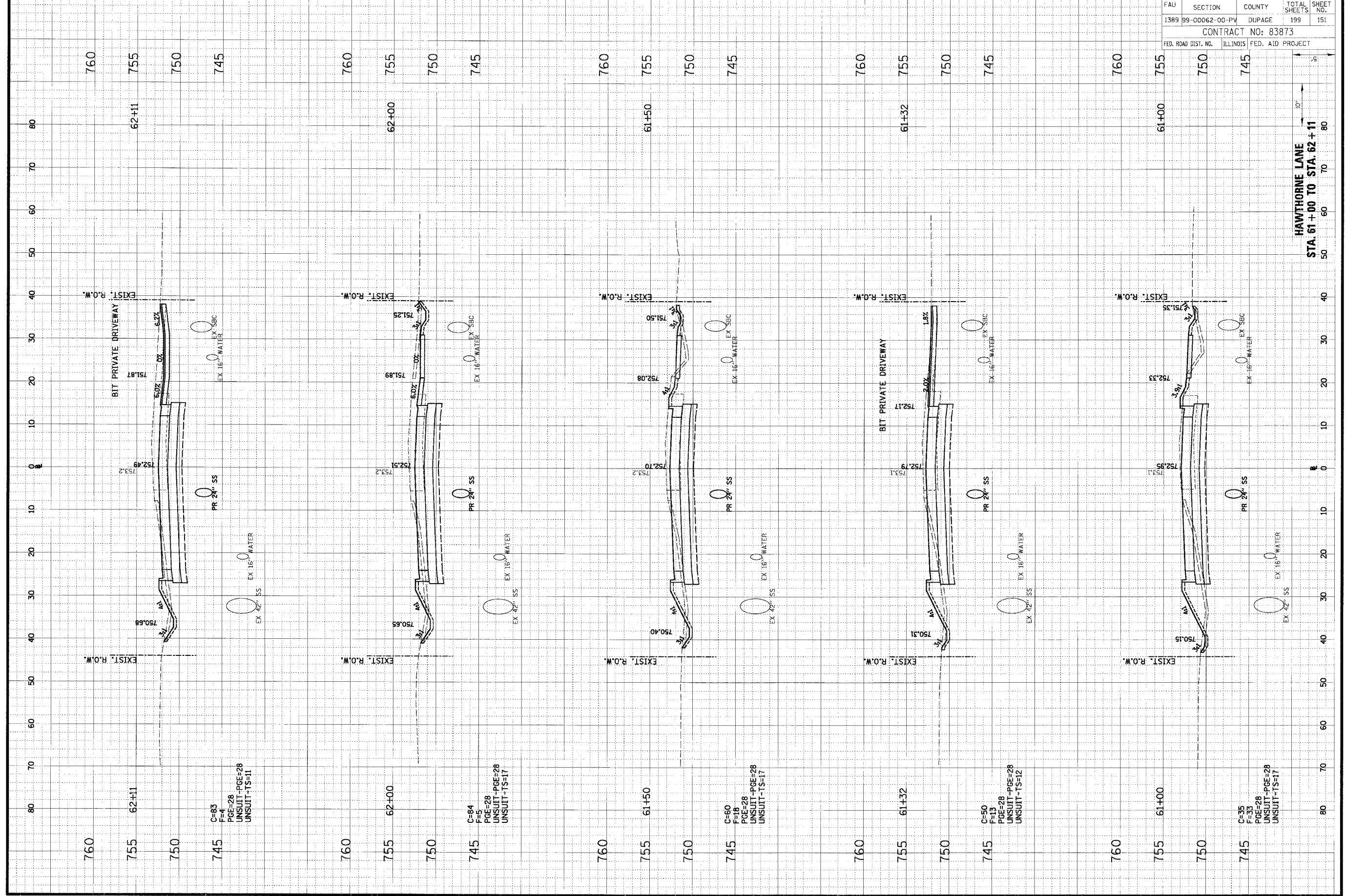
FAU	SECTION	COUNTY	TOTAL SHEETS
1389	99-00062-00-PV	DUPAGE	199
CONTRACT NO: 83873			150
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

HAWTHORNE LANE  
 STA. 59+56 TO STA. 60+50

ORIGINAL SURVEY	DATE
BY	
NOTE BOOK	
ATLAS	
ARCS	
ARCS CHECKED	

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FINAL SURVEY	DATE
BY	
NOTE BOOK	
ATLAS	
ARCS	
ARCS CHECKED	



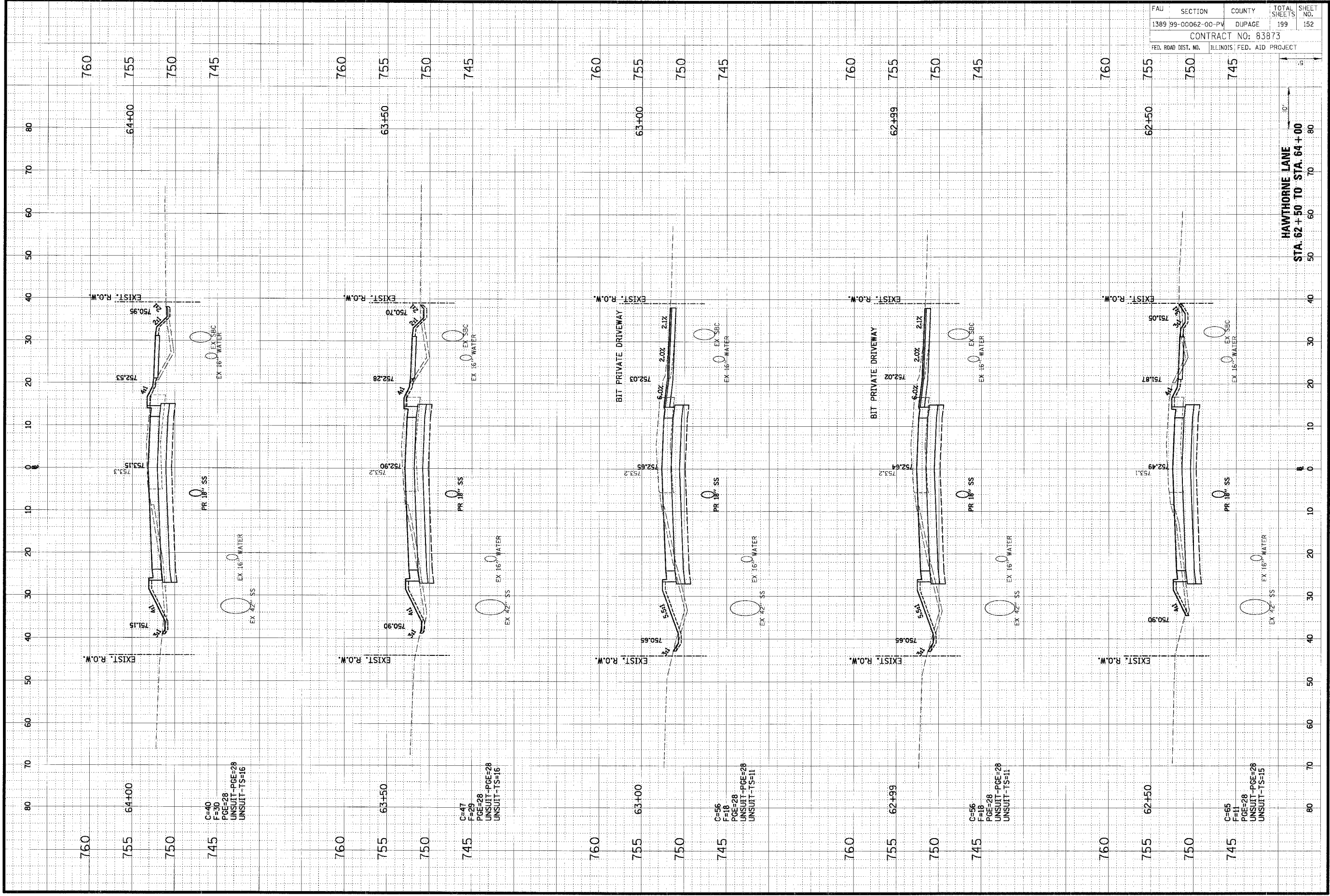
FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV		199	151
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY NO.	SURVEY DATE
NOTED NO.	DATE
REVISIONS	
NO.	DATE

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ORIGINAL SURVEY NO.	DATE
NOTED NO.	DATE
REVISIONS	
NO.	DATE



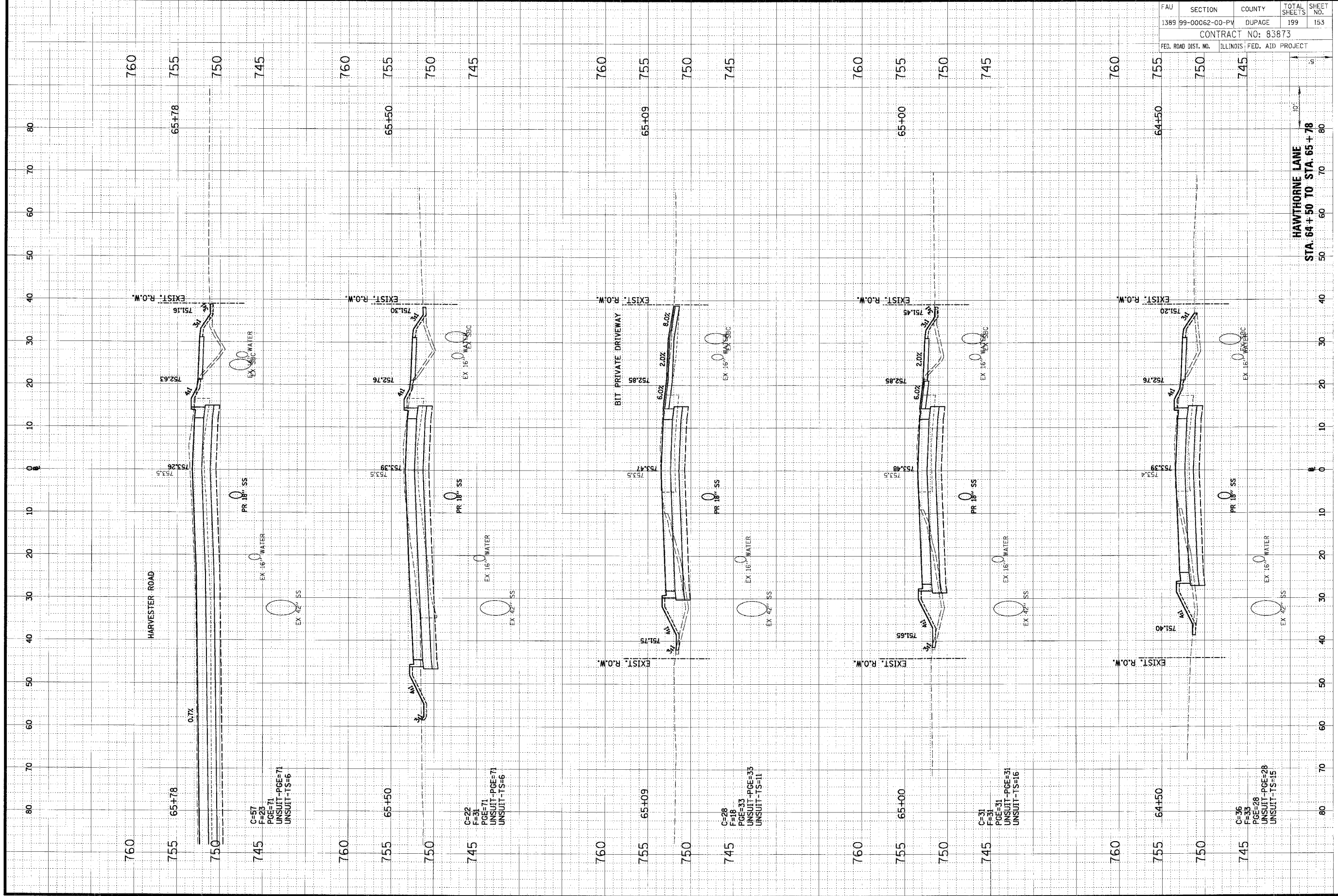
FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	152
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

HAWTHORNE LANE  
 STA. 62+50 TO STA. 64+00

ORIGINAL SURVEY	DATE
NO. BOOK	DATE
AREAS	DATE
UNSUITS	DATE

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FINAL SURVEY	DATE
NO. BOOK	DATE
AREAS	DATE
UNSUITS	DATE



FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	153
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

HAWTHORNE LANE  
 STA. 64+50 TO STA. 65+78

C=36  
 F=33  
 PGE=28  
 UNSUIT-PGE=28  
 UNSUIT-TS=15

C=31  
 F=31  
 PGE=31  
 UNSUIT-PGE=31  
 UNSUIT-TS=16

C=28  
 F=18  
 PGE=33  
 UNSUIT-PGE=33  
 UNSUIT-TS=11

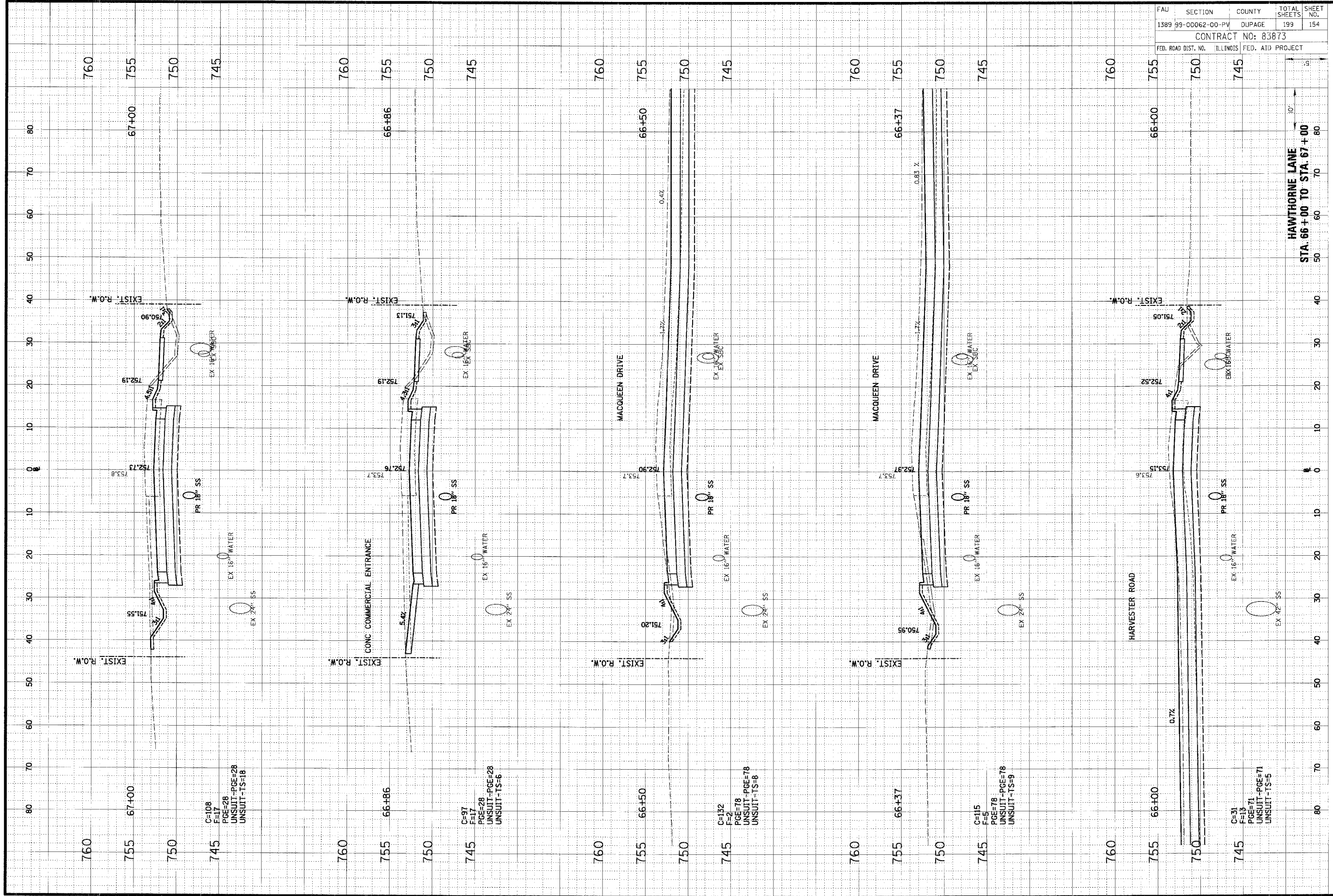
C=22  
 F=31  
 PGE=71  
 UNSUIT-PGE=71  
 UNSUIT-TS=6

C=57  
 F=23  
 PGE=71  
 UNSUIT-PGE=71  
 UNSUIT-TS=6

ORIGINAL SURVEY	DATE
REVISIONS	BY
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	

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FINAL SURVEY	DATE
REVISIONS	BY
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	

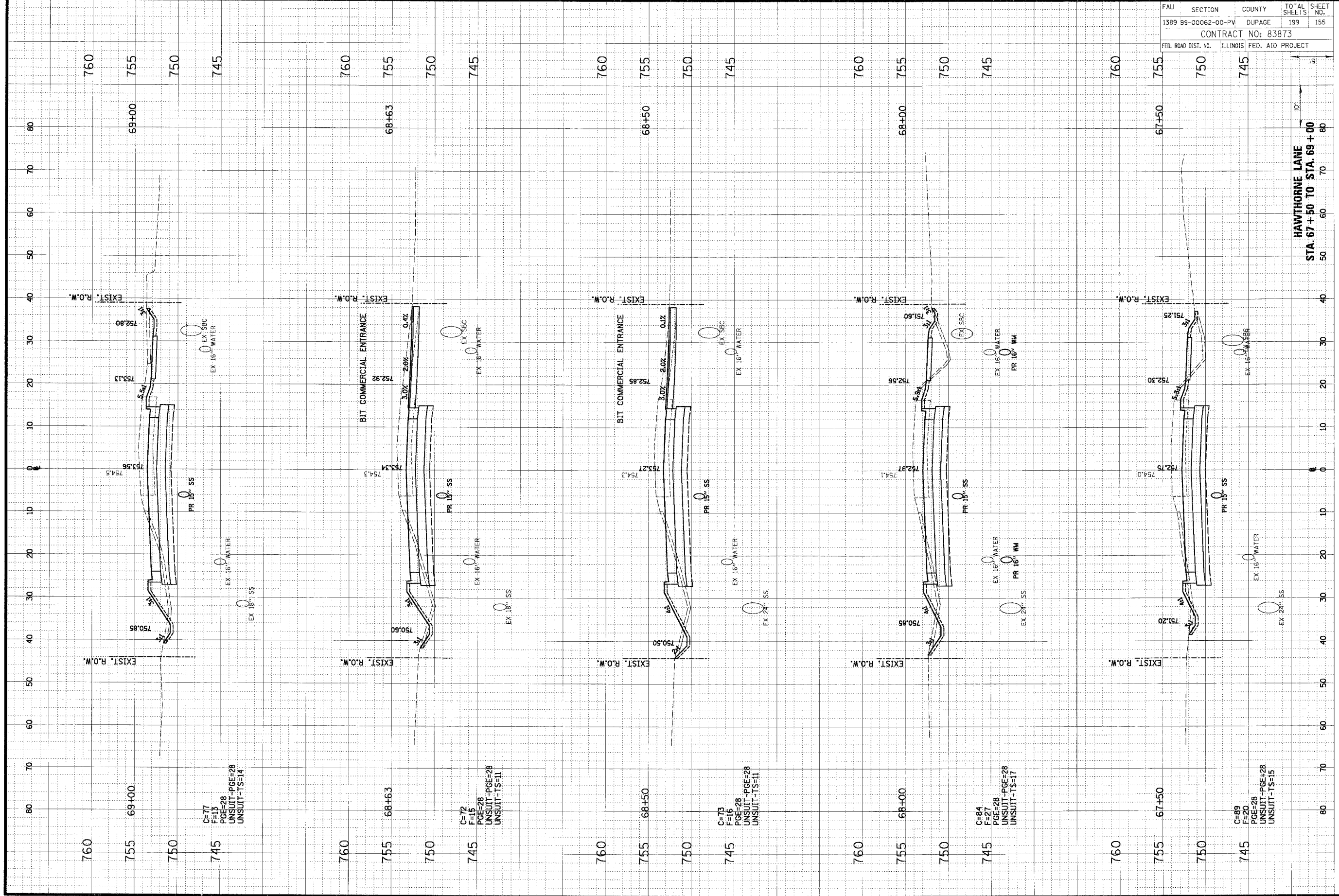


FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-0062-00-PV	DUPAGE	199	154
CONTRACT NO: 83873				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

ORIGINAL	DATE
SURVILY	BY
NOTE BOOK	NO.
AREAS	AREAS CREDITED

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FINAL	DATE
SURVILY	BY
NOTE BOOK	NO.
AREAS	AREAS CREDITED

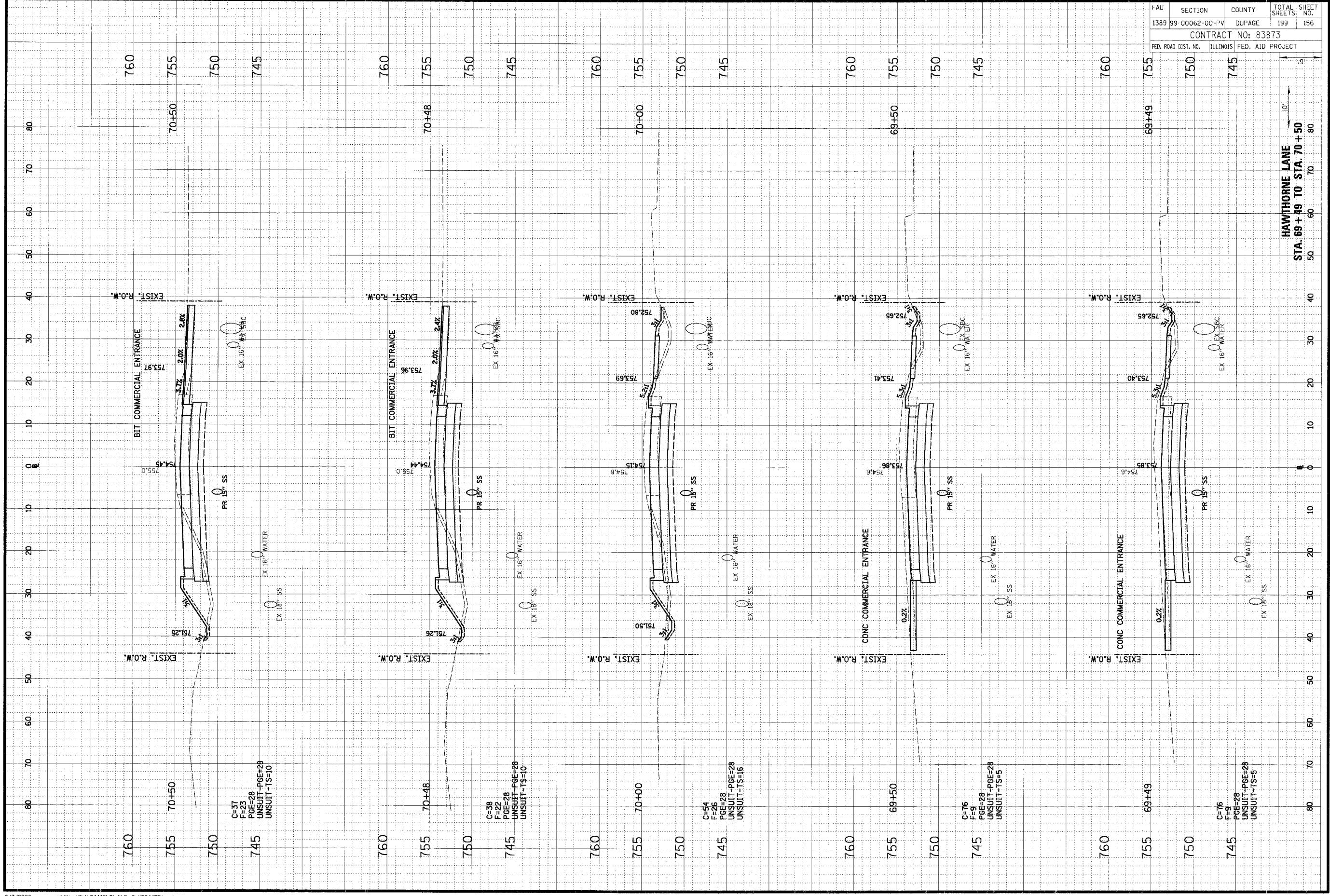


FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389 99-00062-00-PV	DUPAGE	ILLINOIS	199	155
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

ORIGINAL SURVEY	SURVEY	DATE
NOTED BOOK	PLATTED	BY
NO.	TEMPLATE	
	AREAS	
	DRAWN	

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FINAL SURVEY	SURVEY	DATE
NOTED BOOK	PLATTED	BY
NO.	AREAS	
	DRAWN	



FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	156
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

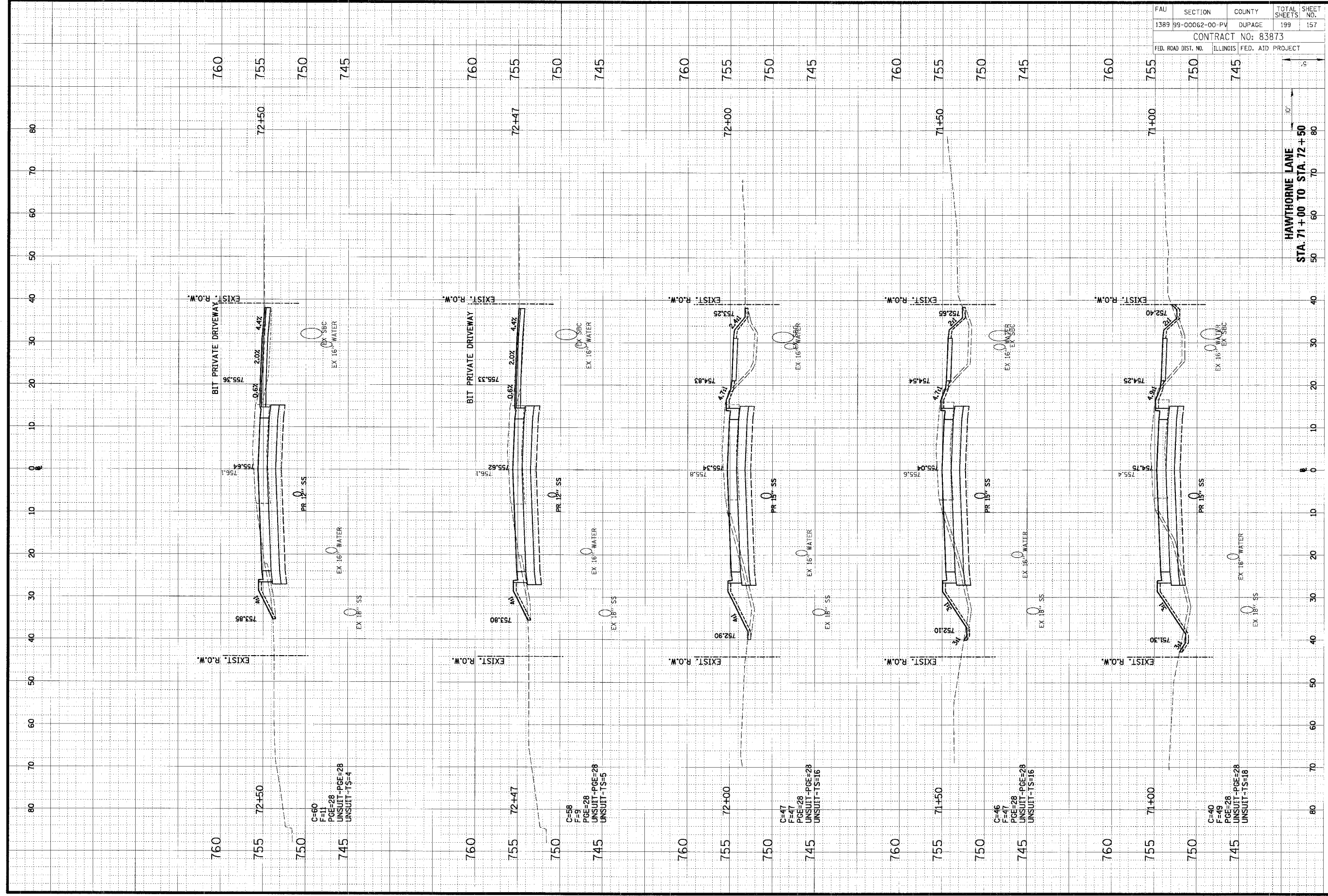
HAWTHORNE LANE  
 STA. 69+49 TO STA. 70+50



ORIGINAL SURVEY	DATE
CHECKED SURVEY	BY
NOTE BOOK	DATE
AREAS	
AREAS	

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FINAL SURVEY	DATE
CHECKED SURVEY	BY
NOTE BOOK	DATE
AREAS	
AREAS	



FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	157
CONTRACT NO: 83873				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

HAWTHORNE LANE  
 STA. 71+00 TO STA. 72+50

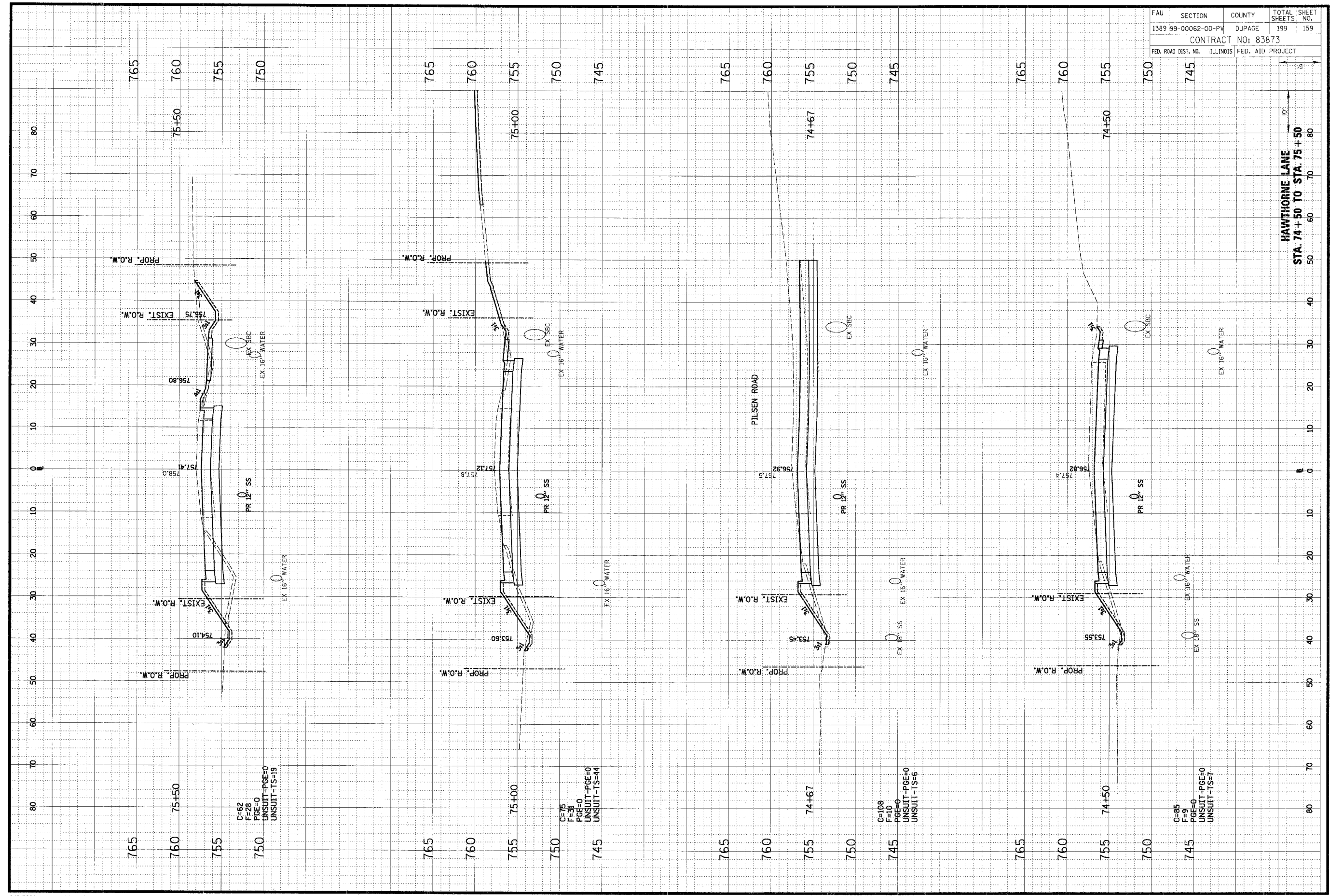




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ORIGINAL SURVEY	BY	DATE
NOTED		
PLOTTED		
AREA'S CHECKED		

FINAL SURVEY	BY	DATE
NOTE BOOK		
AREA'S CHECKED		

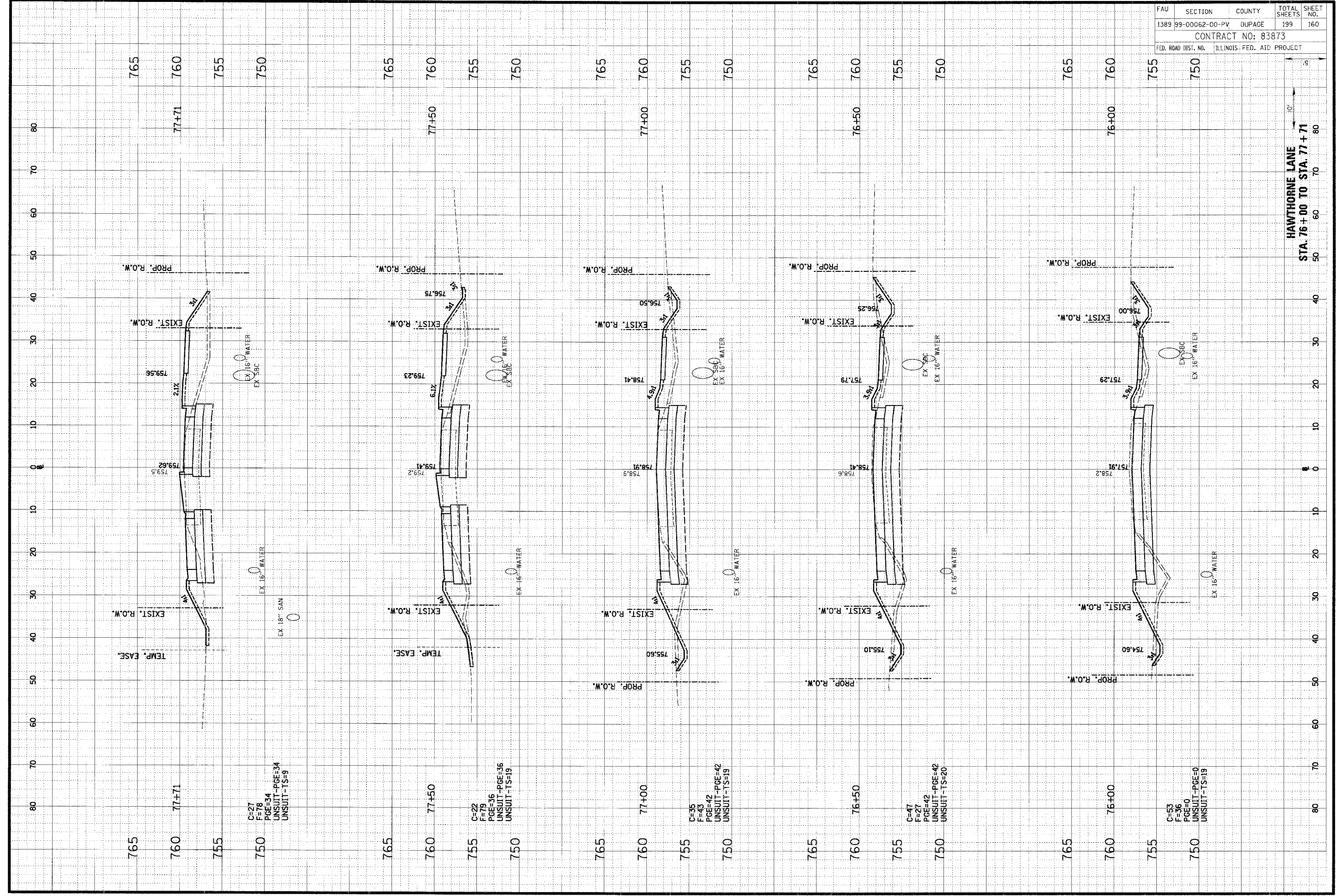


FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	159
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ORIGINAL SURVEY	DATE
DATE	BY
NO. OF BOOK	NO. OF SHEETS
AREAS CHECKED	AREAS CHECKED

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FINAL SURVEY	DATE
DATE	BY
NO. OF BOOK	NO. OF SHEETS
AREAS CHECKED	AREAS CHECKED



FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	160
CONTRACT NO: 83873				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

HAWTHORNE LANE  
 STA. 76+00 TO STA. 77+71

C-27  
 F-78  
 PGE-34  
 UNSUIT-PGE-34  
 UNSUIT-TS-9

C-22  
 F-75  
 PGE-36  
 UNSUIT-PGE-36  
 UNSUIT-TS-19

C-35  
 F-43  
 PGE-42  
 UNSUIT-PGE-42  
 UNSUIT-TS-19

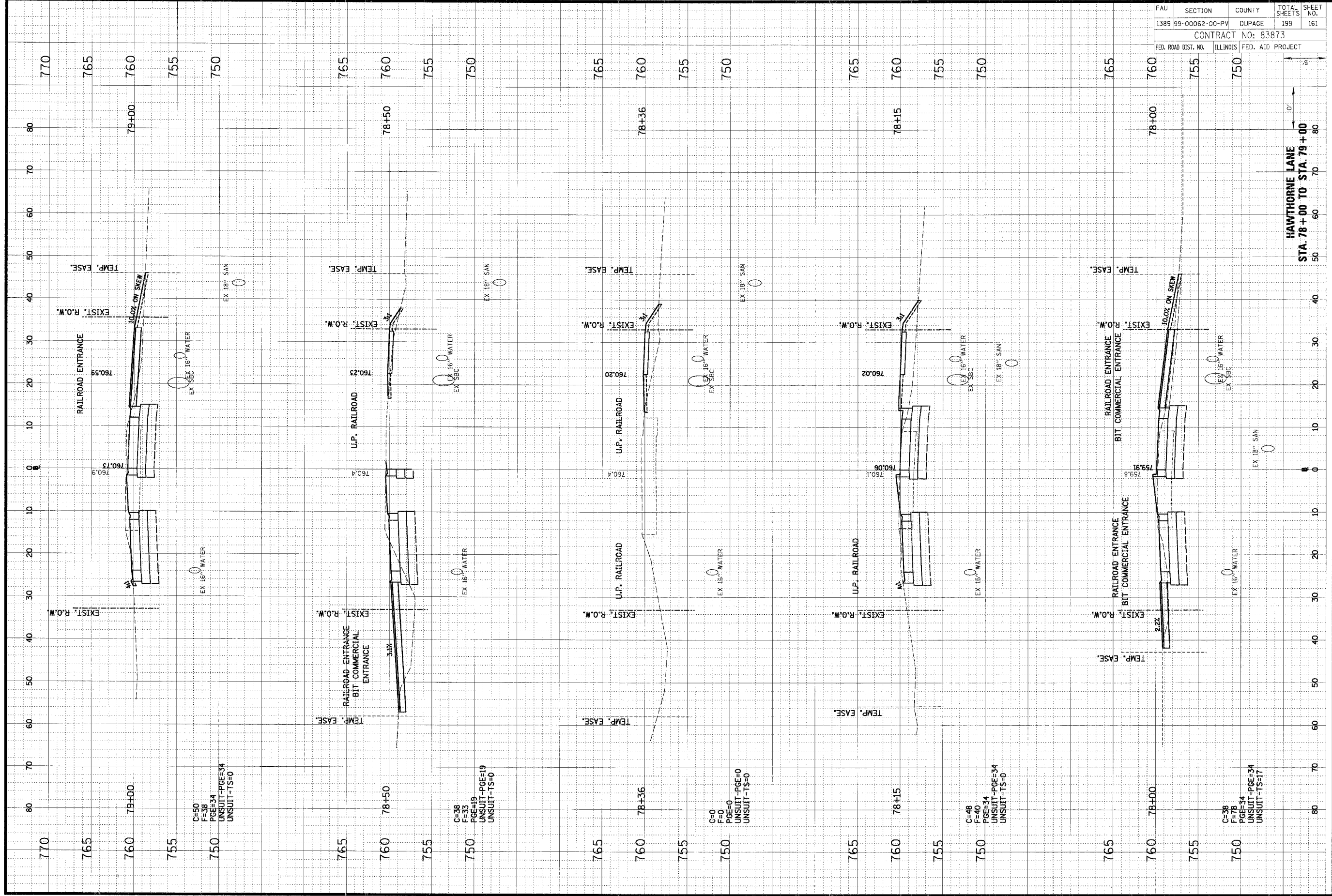
C-47  
 F-27  
 PGE-42  
 UNSUIT-PGE-42  
 UNSUIT-TS-20

C-53  
 F-36  
 PGE-40  
 UNSUIT-PGE-40  
 UNSUIT-TS-19

ORIGINAL SURVEY	DATE
BY	
DATE	
BY	
DATE	
BY	

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FINAL SURVEY	DATE
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DATE	
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DATE	
BY	

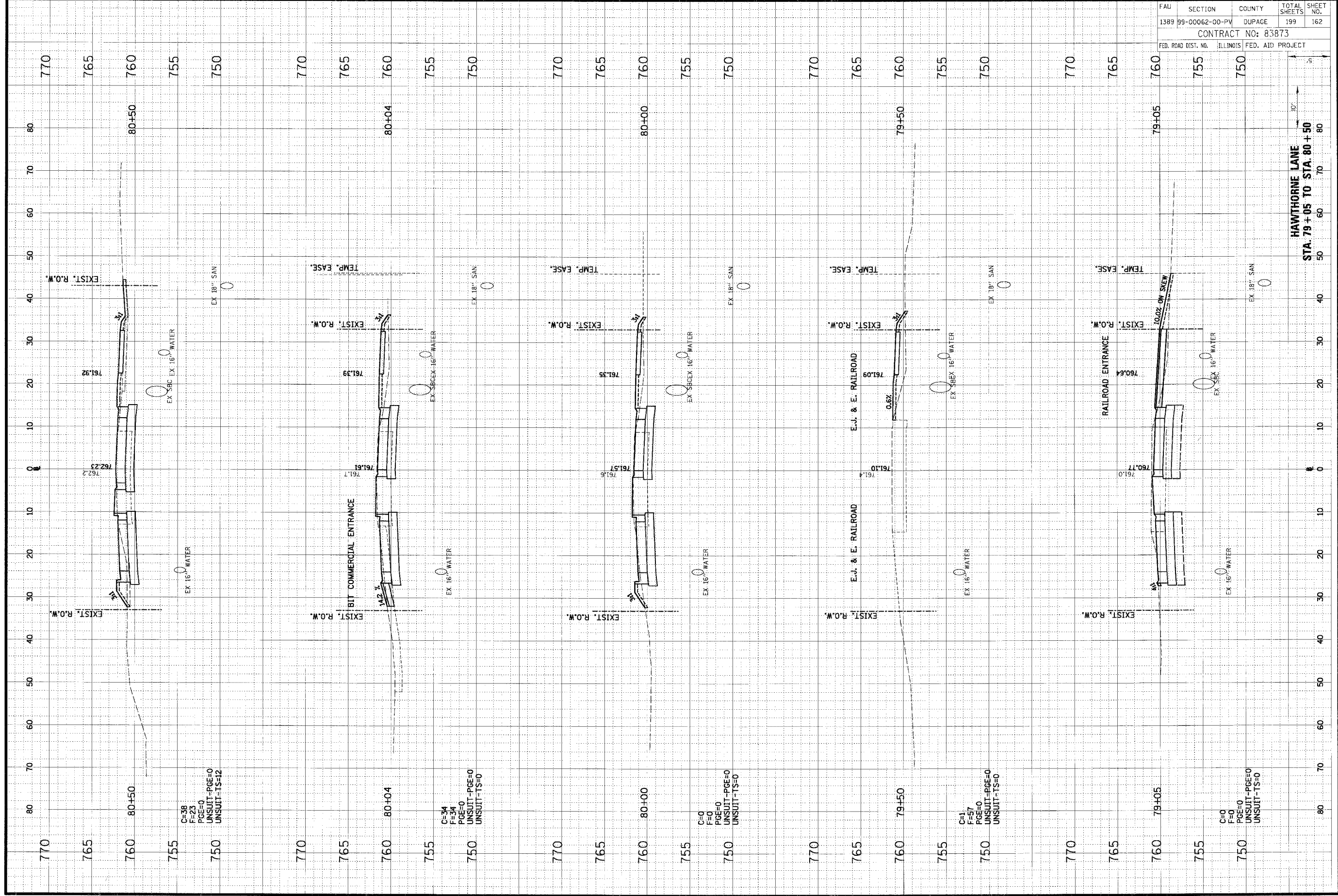


FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	161
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ORIGINAL SURVEY BY DATE  
 REVISIONS BY DATE  
 NOTE BOOK NO.  
 AREAS CHECKED

FINAL SURVEY BY DATE  
 NOTE BOOK NO.  
 AREAS CHECKED

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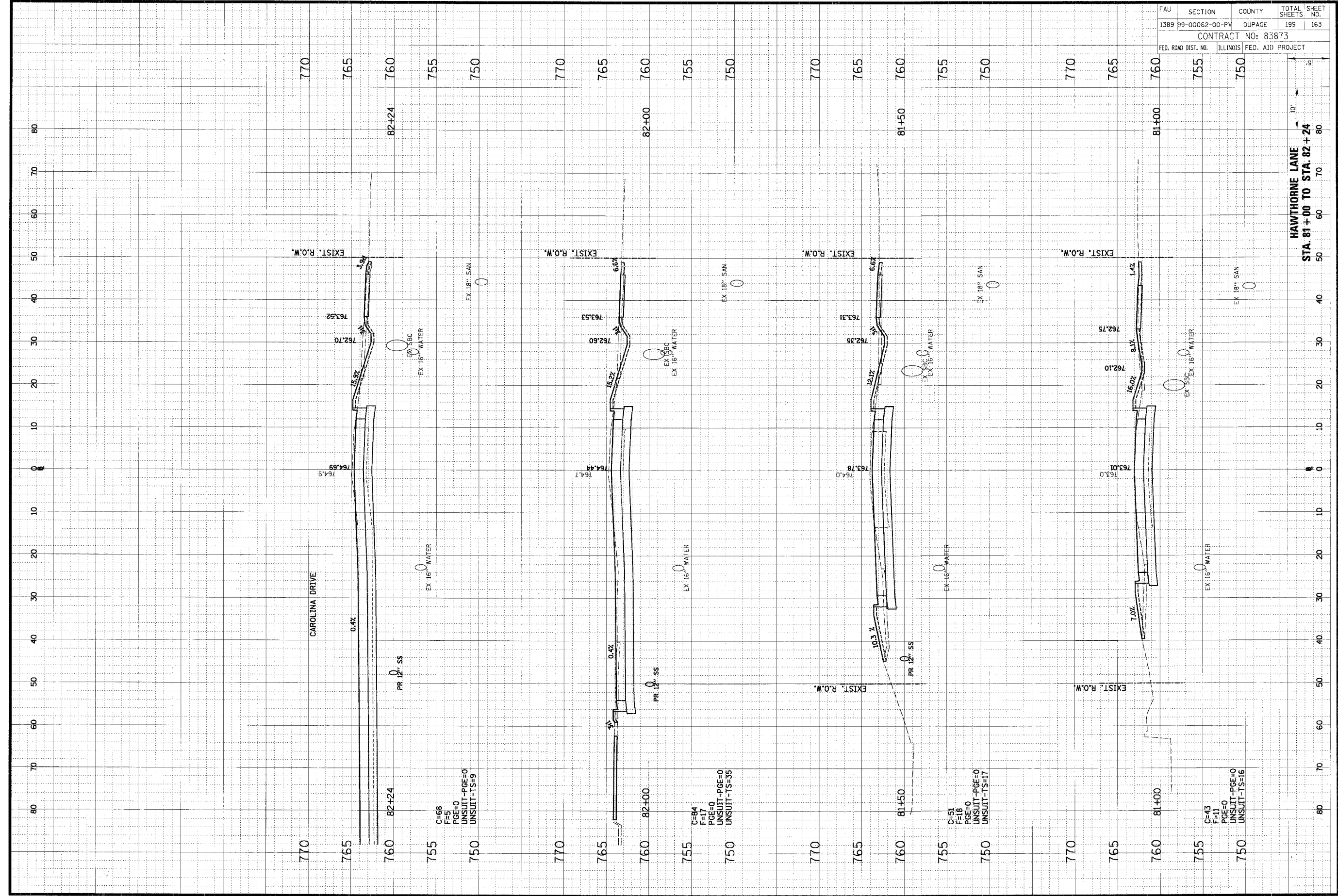
FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	162
CONTRACT NO: 83873				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

HAWTHORNE LANE  
 STA. 79+05 TO STA. 80+50

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	AREAS		
	CHECKED		

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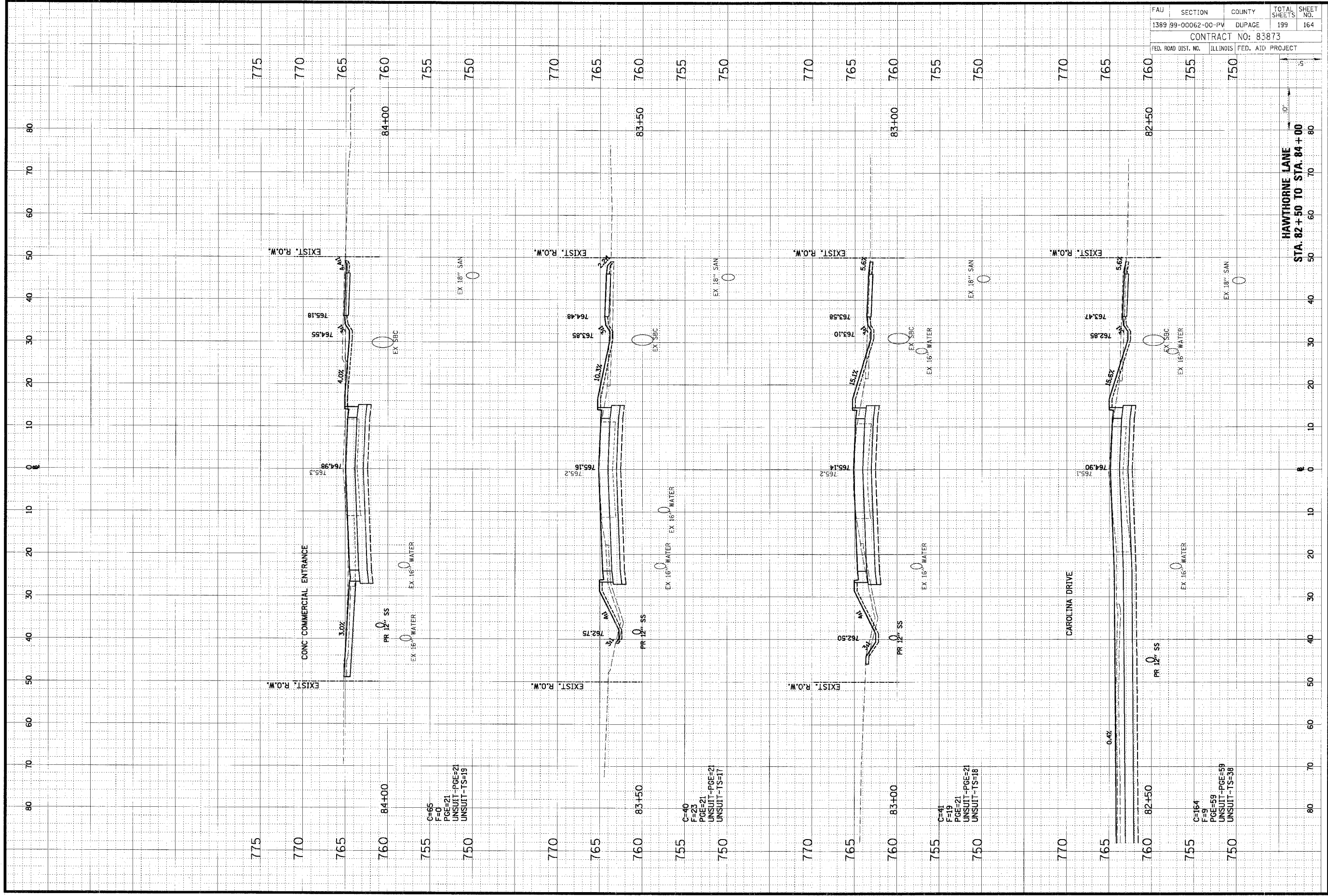


FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	163
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

ORIGINAL SURVEY	DATE
NO.	
BY	
DATE	

FINAL SURVEY	DATE
NO.	
BY	
DATE	

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FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	164
CONTRACT NO: 83873				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

HAWTHORNE LANE  
 STA. 82+50 TO STA. 84+00

C=65  
 F=0  
 PGE=21  
 UNSUIT-PGE=21  
 UNSUIT-TS=19

C=40  
 F=23  
 PGE=21  
 UNSUIT-PGE=21  
 UNSUIT-TS=17

C=41  
 F=19  
 PGE=21  
 UNSUIT-PGE=21  
 UNSUIT-TS=18

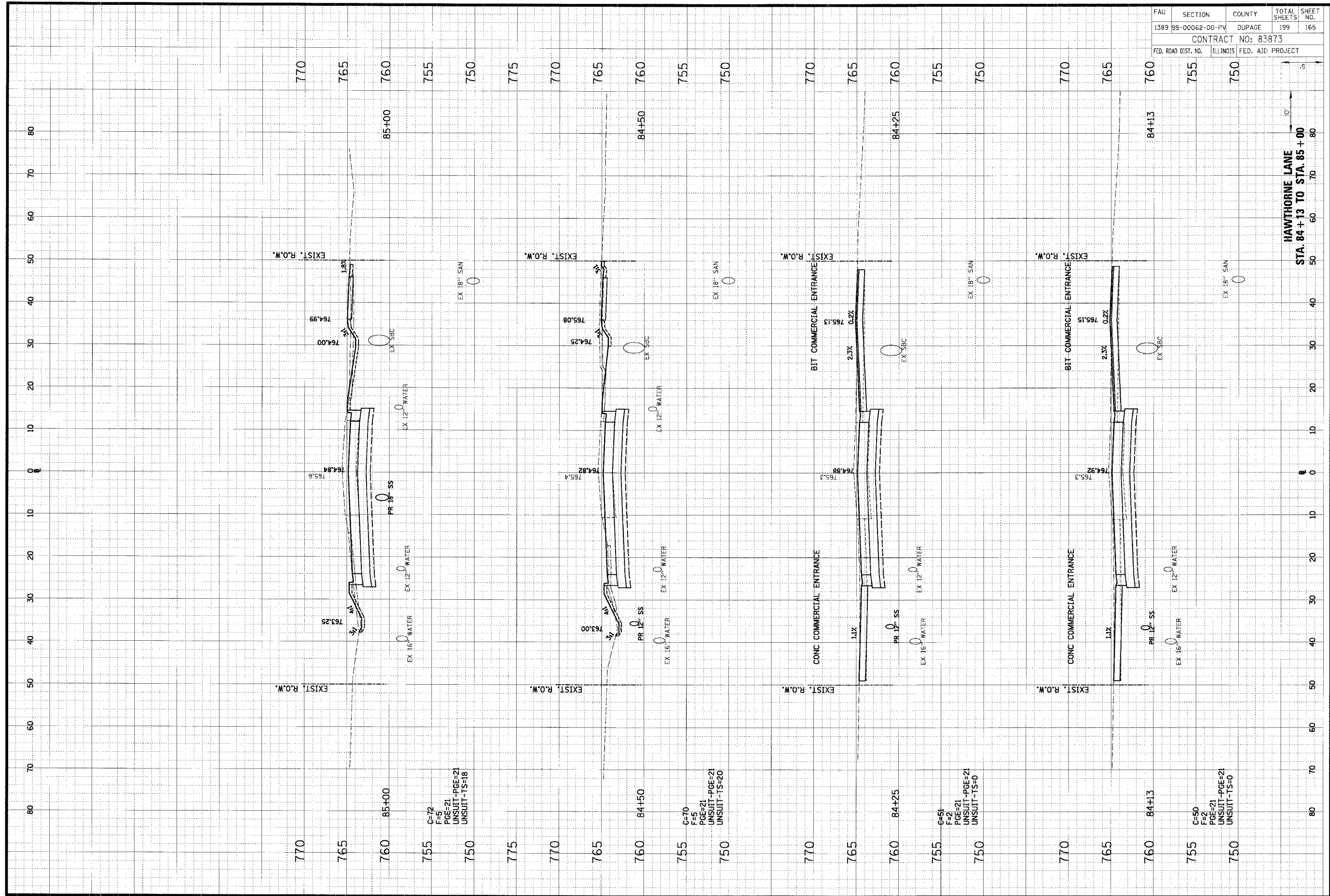
C=164  
 F=9  
 PGE=59  
 UNSUIT-PGE=59  
 UNSUIT-TS=38



ORIGINAL SURVEY	DATE
NO.	BY
NOTE BOOK	DATE
AREAS CHECKED	BY
AREAS CHECKED	DATE

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FIRAL SURVEY	DATE
NO.	BY
NOTE BOOK	DATE
AREAS CHECKED	BY
AREAS CHECKED	DATE



FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	165
CONTRACT NO: 83873				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

HAWTHORNE LANE  
 STA. 84+13 TO STA. 85+00

C=50  
 F=2  
 PGE=21  
 UNSUIT-PGE=21  
 UNSUIT-TS=0

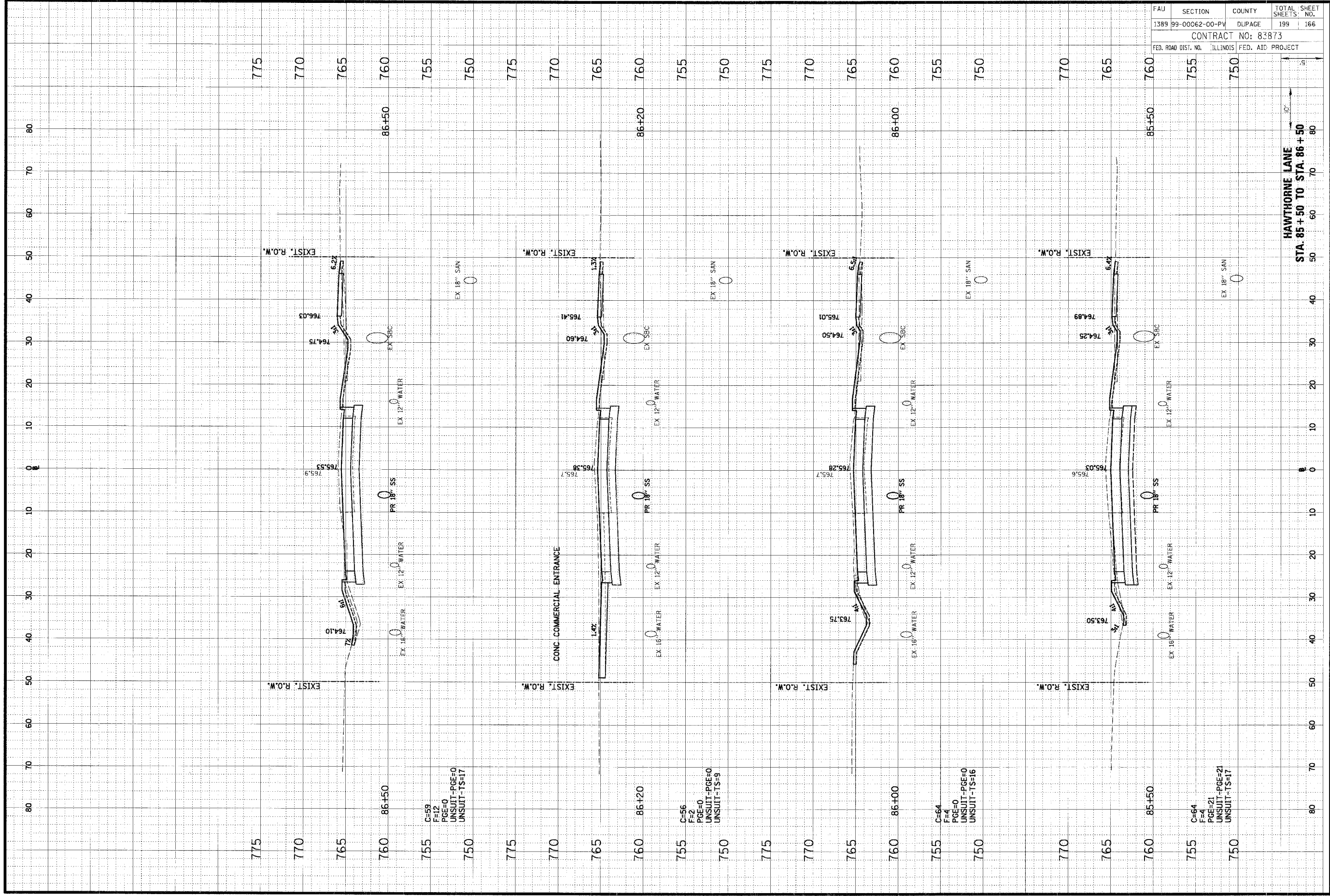
C=70  
 F=5  
 PGE=21  
 UNSUIT-PGE=21  
 UNSUIT-TS=20

C=72  
 F=5  
 PGE=21  
 UNSUIT-PGE=21  
 UNSUIT-TS=18

ORIGINAL SURVEY	DATE
BY	
REVISIONS	
NO.	
DATE	
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REVISIONS	
NO.	
DATE	
BY	

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FINAL SURVEY	DATE
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	



FAU	SECTION	COUNTY	TOTAL SHEET NO.
1389	99-00062-00-PV	DUPAGE	199
CONTRACT NO: 83873			166
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

HAWTHORNE LANE  
 STA. 85+50 TO STA. 86+50

C=59  
 F=12  
 PGE=0  
 UNSUIT-PGE=0  
 UNSUIT-TS=17

C=56  
 F=2  
 PGE=0  
 UNSUIT-PGE=0  
 UNSUIT-TS=9

C=64  
 F=4  
 PGE=0  
 UNSUIT-PGE=0  
 UNSUIT-TS=16

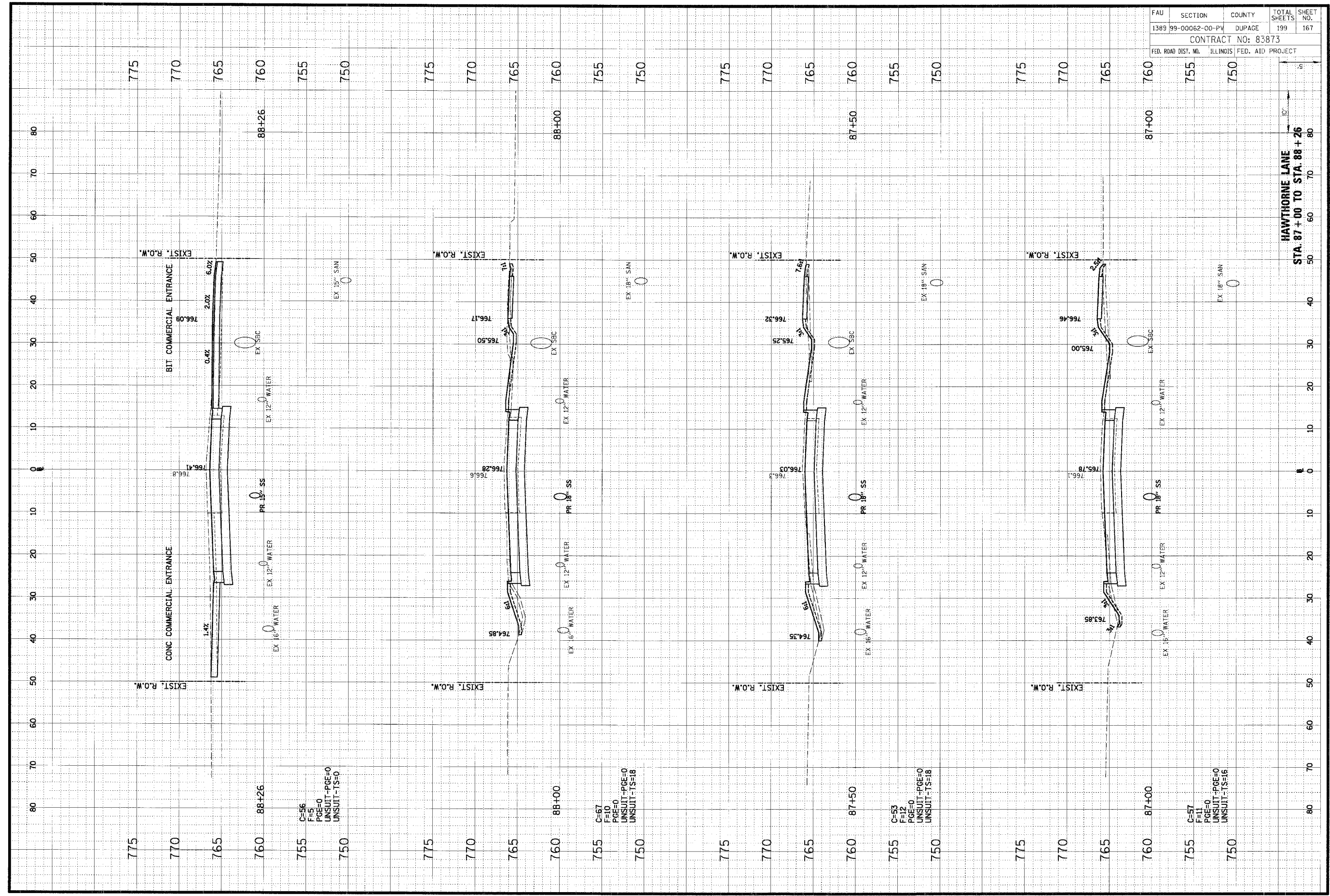
C=64  
 F=4  
 PGE=21  
 UNSUIT-PGE=21  
 UNSUIT-TS=17



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ORIGINAL SURVEY	BY	DATE
NO. _____	_____	_____
DATE	BY	DATE
_____	_____	_____

FINAL SURVEY	BY	DATE
NO. _____	_____	_____
DATE	BY	DATE
_____	_____	_____



FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	167
CONTRACT NO: 83873				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

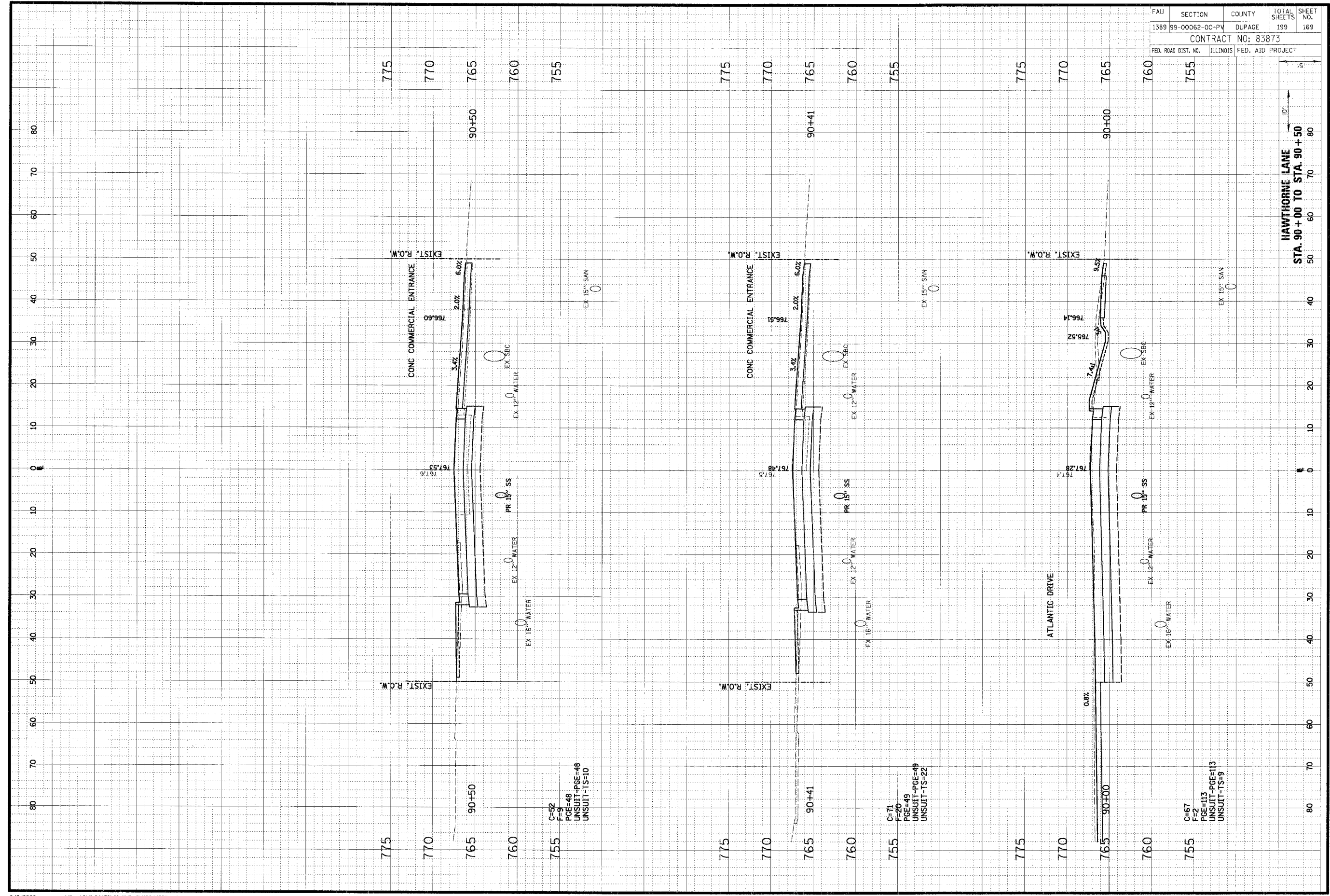
HAWTHORNE LANE  
 STA. 87+00 TO STA. 88+26



ORIGINAL SURVEY BY DATE  
 SURVEYED BY DATE  
 PLOTTED BY DATE  
 NOTE BOOK NO. AREAS CHECKED

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FINAL SURVEY BY DATE  
 SURVEYED BY DATE  
 PLOTTED BY DATE  
 NOTE BOOK NO. AREAS CHECKED



FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	169
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

HAWTHORNE LANE  
 STA. 90+00 TO STA. 90+50

C=67  
 F=2  
 PGE=113  
 UNSUIT-PGE=113  
 UNSUIT-TS=9

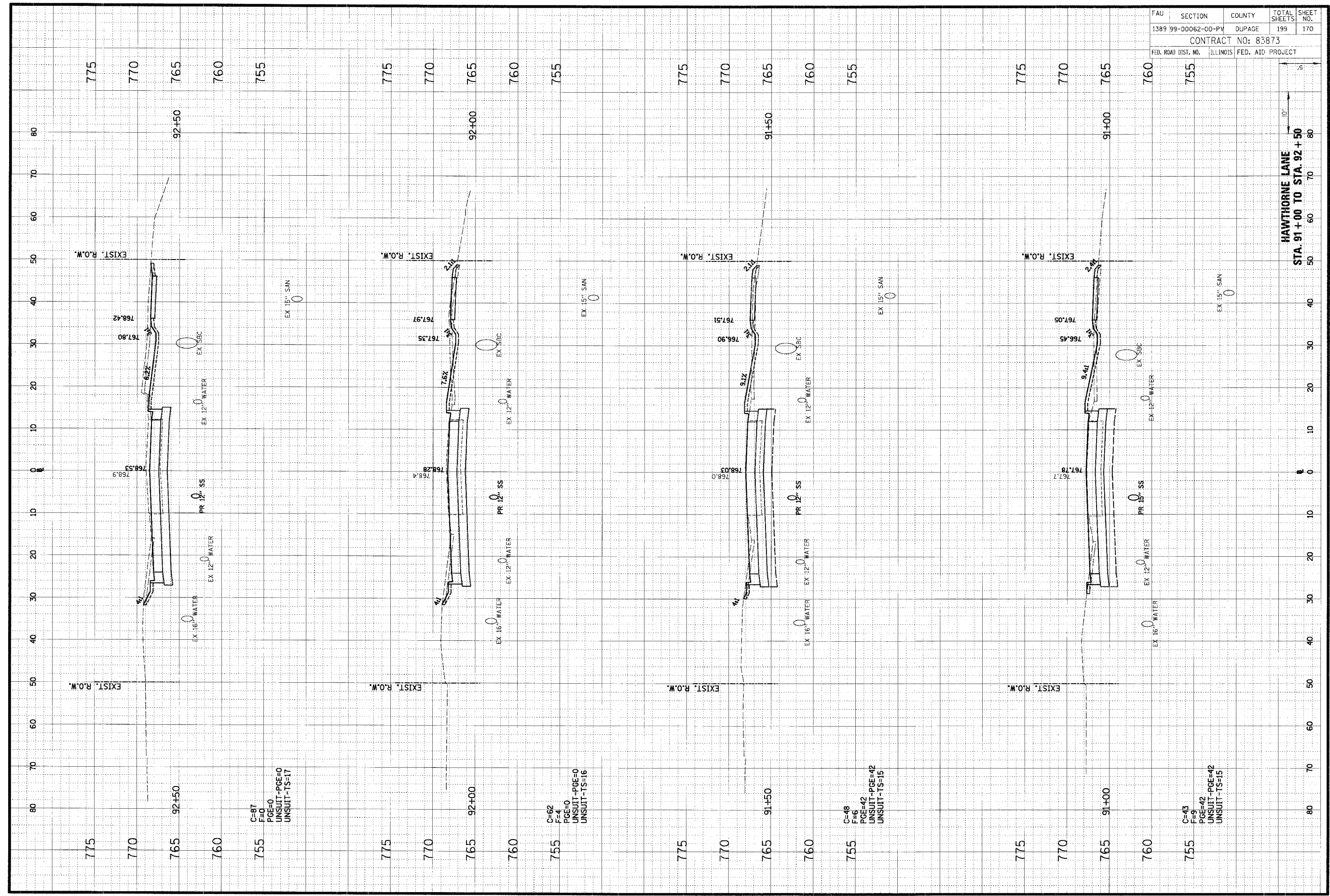
C=71  
 F=20  
 PGE=49  
 UNSUIT-PGE=49  
 UNSUIT-TS=22

C=52  
 F=9  
 PGE=48  
 UNSUIT-PGE=48  
 UNSUIT-TS=10

ORIGINAL SURVEY PLOTTED BY DATE  
 NOTE BOOK NO. AREAS CHECKED

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FINAL SURVEY SUBMITTED BY DATE  
 NOTE BOOK NO. AREAS CHECKED



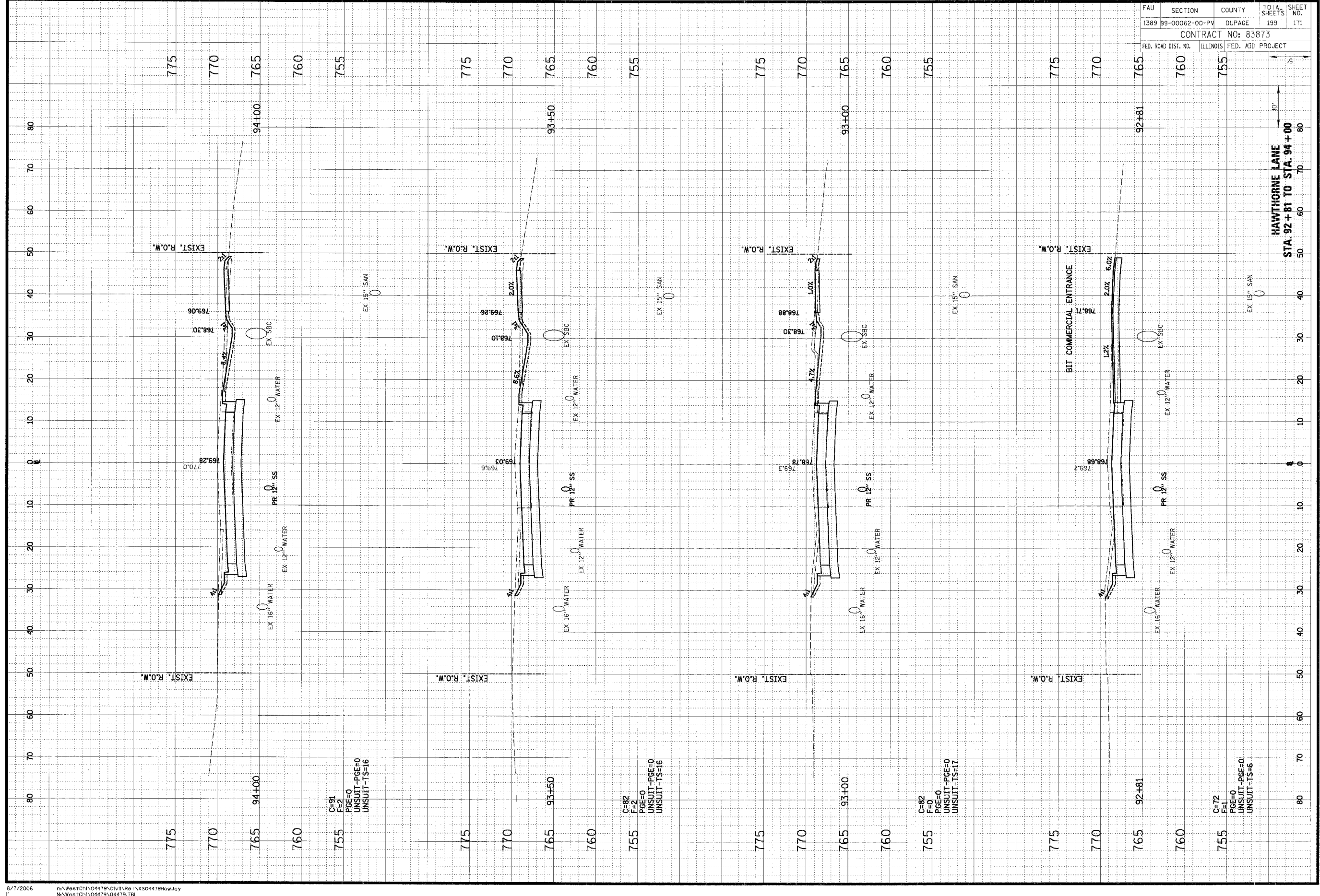
FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	170
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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ORIGINAL SURVEY	DATE
DATE	BY
NOTED	DATE
AREAS CHECKED	DATE

FINAL SURVEY	DATE
DATE	BY
NOTED	DATE
AREAS CHECKED	DATE



FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	171
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

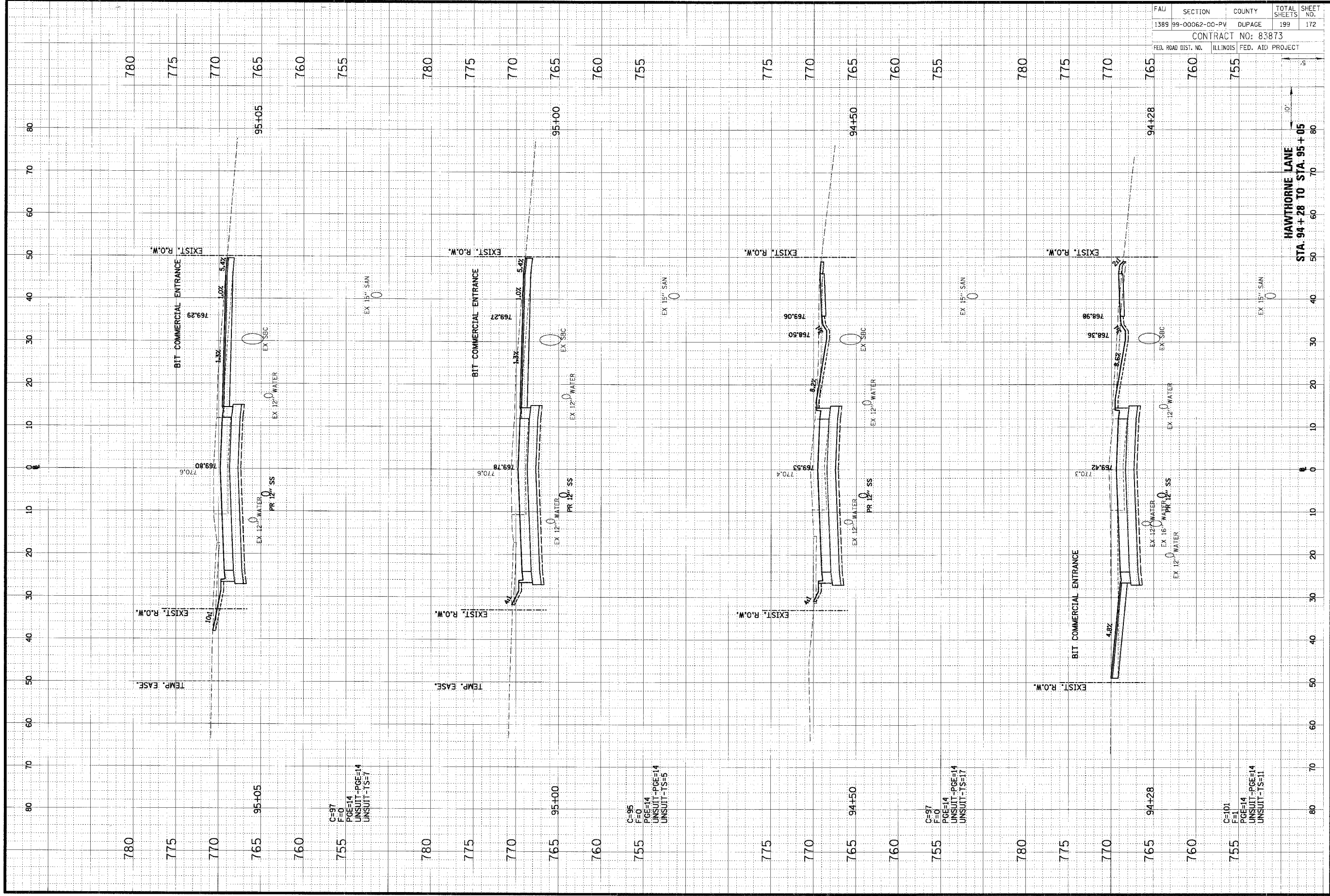
HAWTHORNE LANE  
 STA. 92+81 TO STA. 94+00



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ORIGIN	DATE
BY	
NO.	

FINAL SURVEY	DATE
BY	
NO.	



FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	172
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

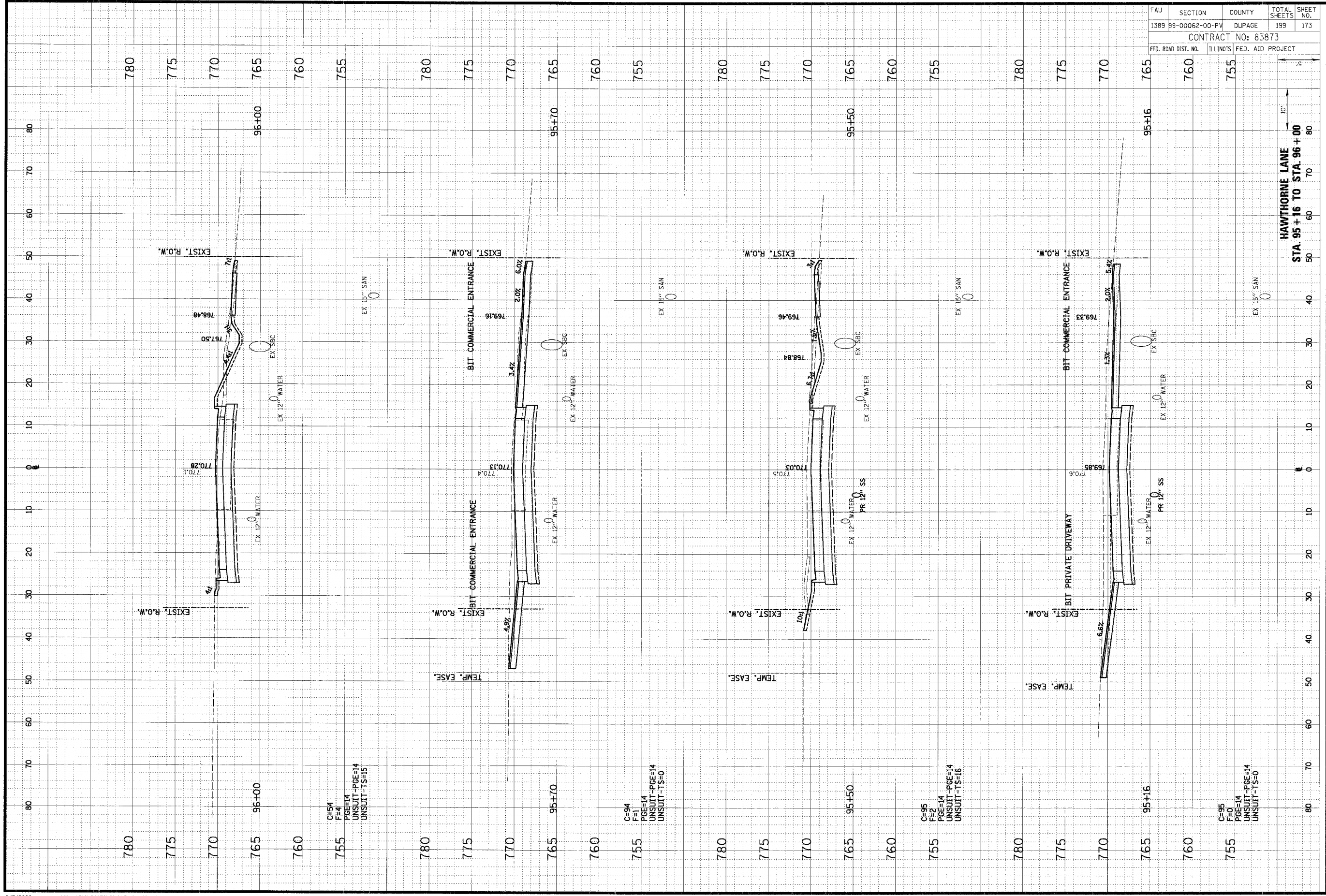
HAWTHORNE LANE  
 STA. 94+28 TO STA. 95+05



ORIGINAL SURVEY	DATE
SURVEYED	BY
PLANNED	
FIELD	
AREAS	
NO.	

**CHRISTOPHER B. BURKE ENGINEERING LTD.**  
 9575 West Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 923-0500

FINAL SURVEY	DATE
PLANNED	
FIELD	
AREAS	
NO.	



FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	173
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

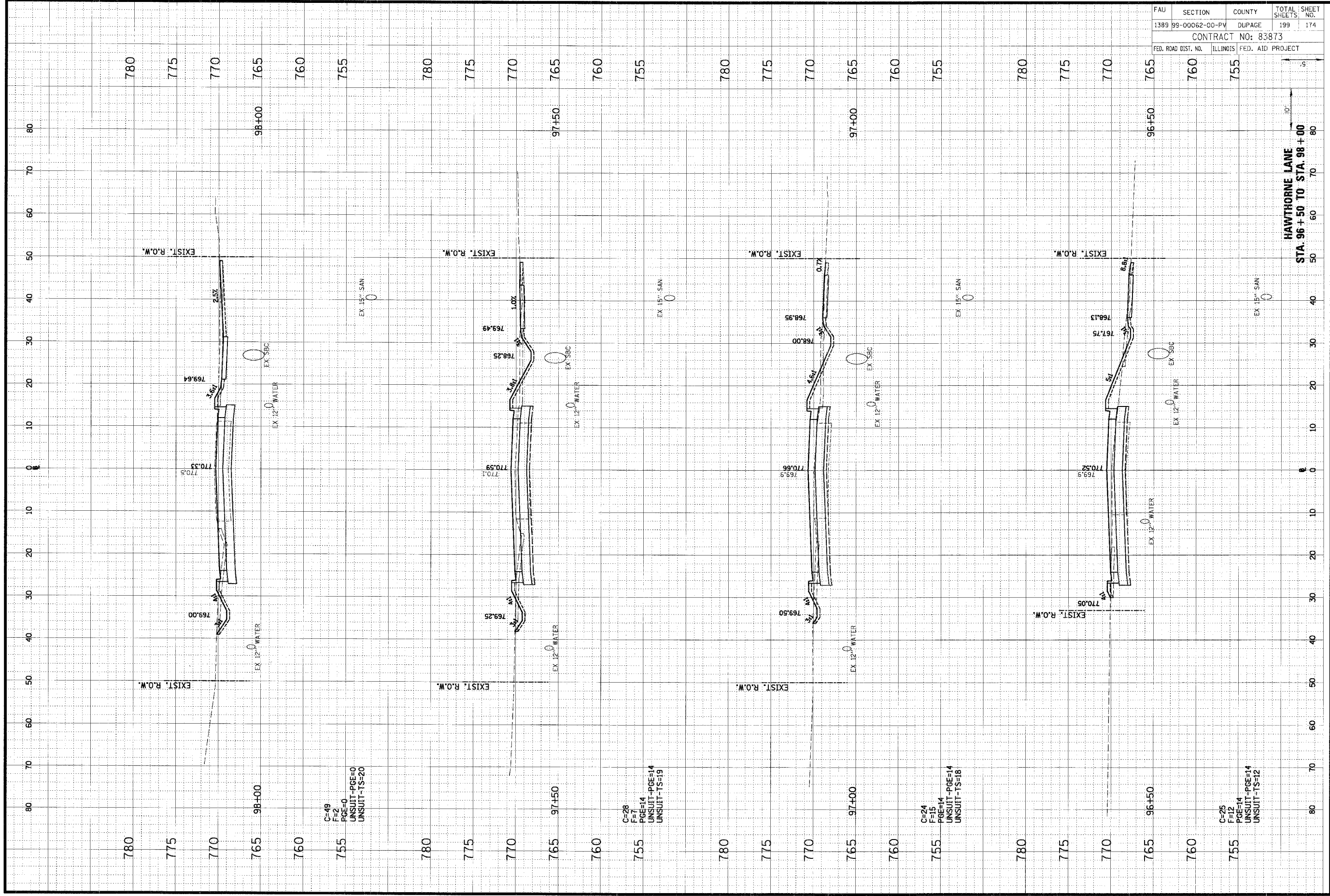
8/7/2006

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 N:\WestCh\04479\04479.TBL

ORIGINAL SUPPLY	DATE
BY	
NO.	

**CHRISTOPHER B. BURKE ENGINEERING LTD.**  
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FINAL SURVEY	DATE
BY	
NO.	



FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	174
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

HAWTHORNE LANE  
 STA. 96+50 TO STA. 98+00

C=49  
 F=2  
 PGE=0  
 UNSUIT-PGE=0  
 UNSUIT-TS=20

C=28  
 F=7  
 PGE=14  
 UNSUIT-PGE=14  
 UNSUIT-TS=19

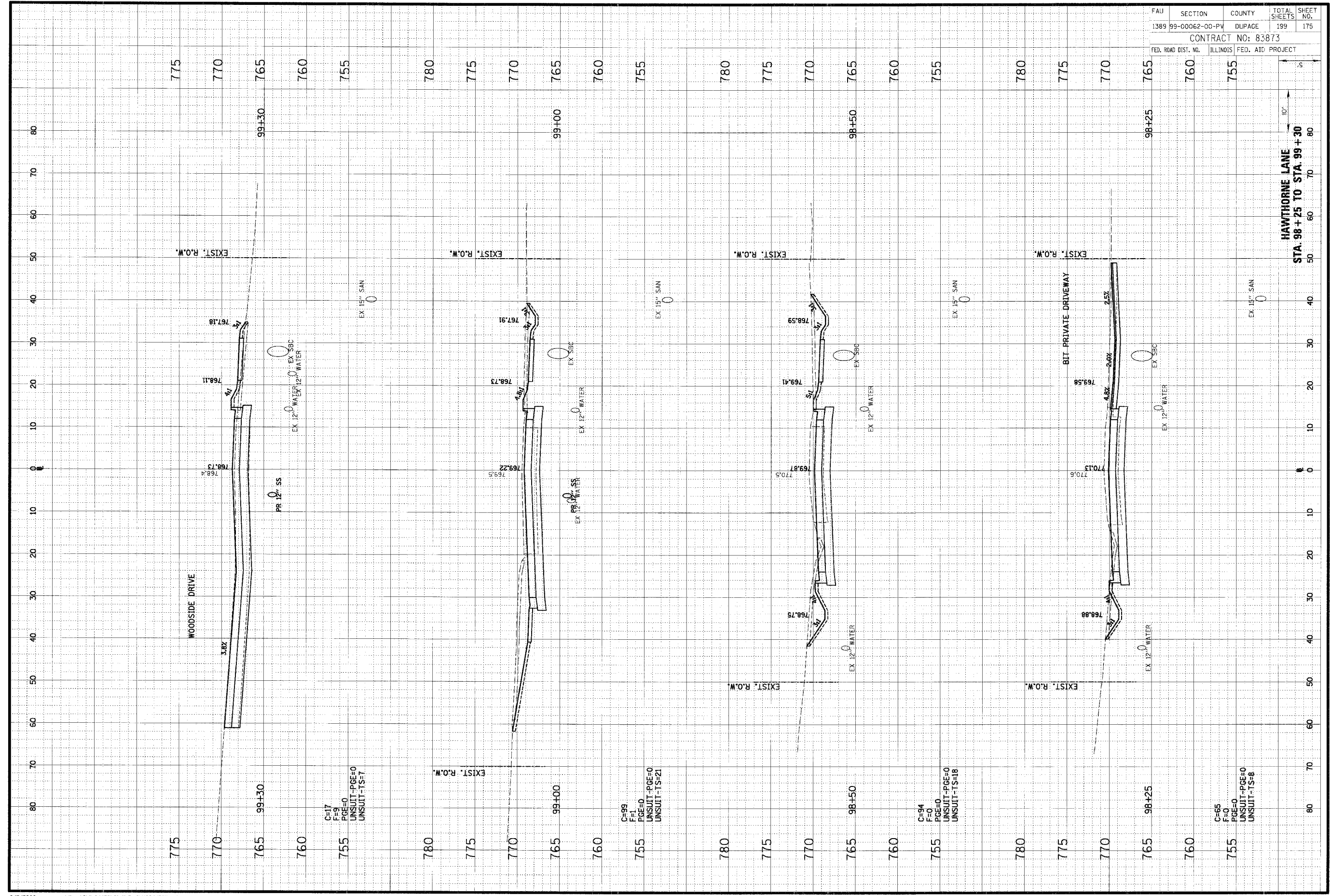
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 PGE=14  
 UNSUIT-PGE=14  
 UNSUIT-TS=18

C=25  
 F=12  
 PGE=14  
 UNSUIT-PGE=14  
 UNSUIT-TS=12

ORIGINAL SURVEY	DATE
BY	
DATE	
BY	
DATE	
BY	
DATE	
BY	
DATE	
BY	
DATE	

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FINAL SURVEY	DATE
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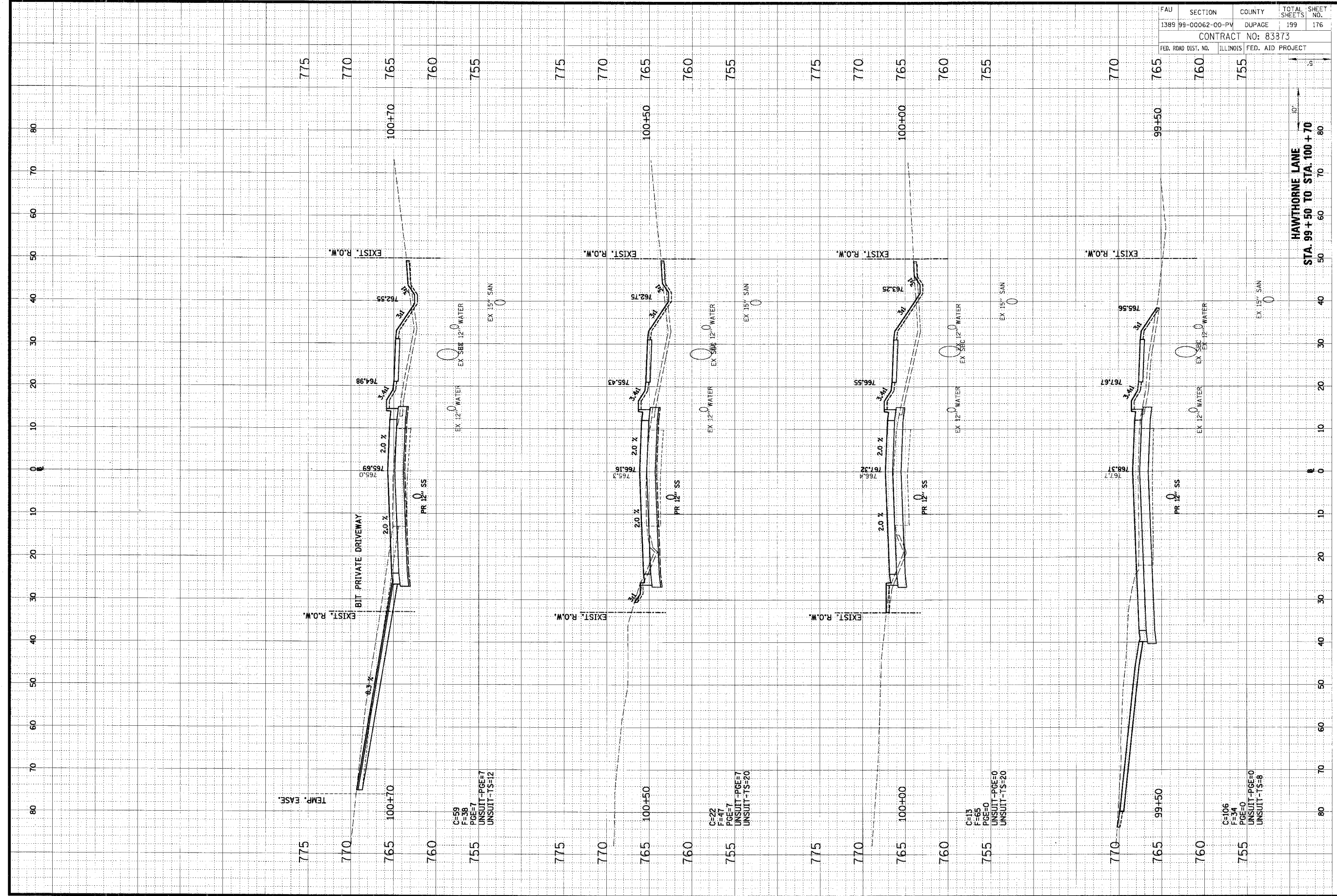


FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	175
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ORIGINAL SURVEY	BY	DATE
REVISION		
NOTE BOOK		
AREAS CHECKED		

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FINAL SURVEY	BY	DATE
NOTE BOOK		
AREAS CHECKED		

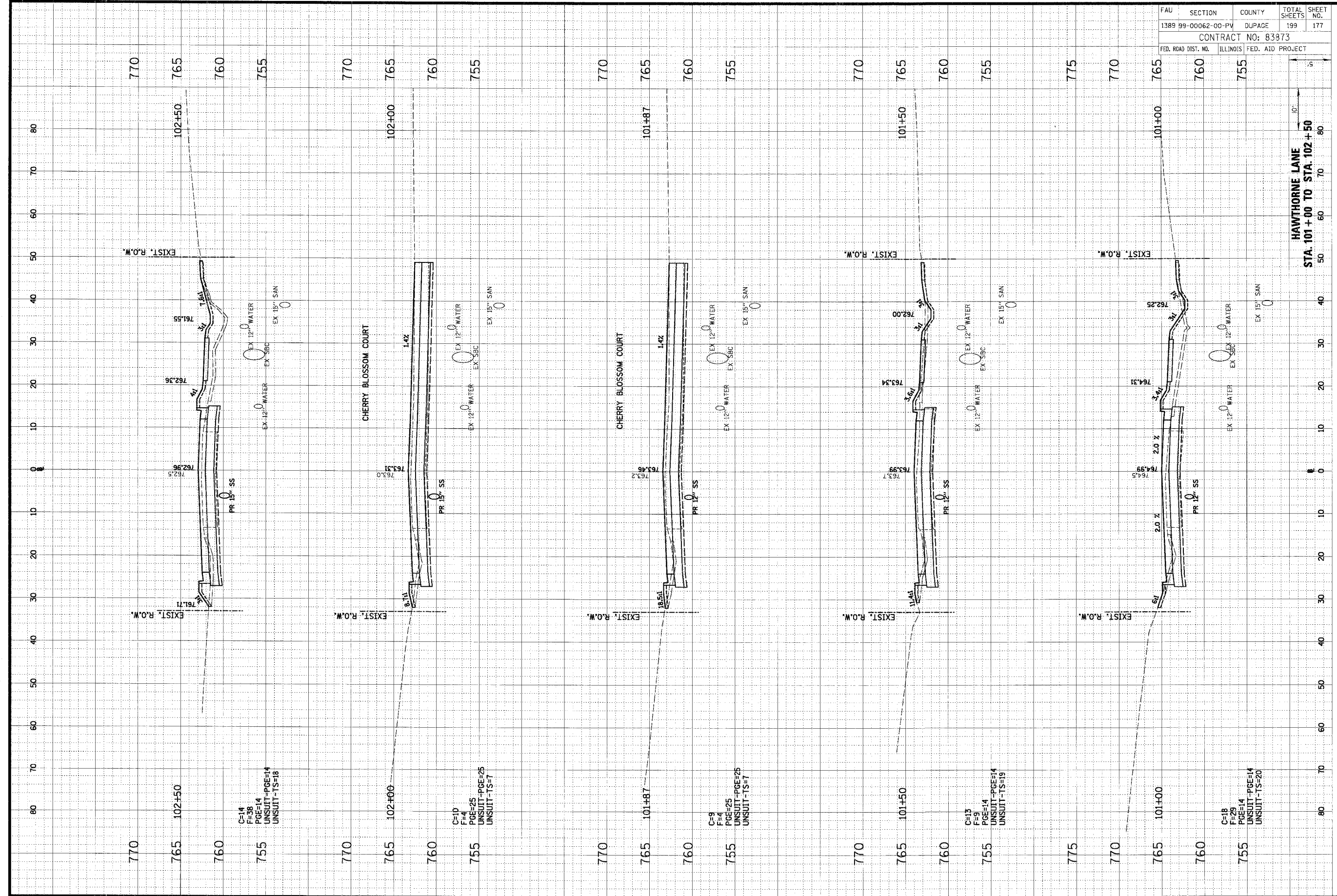


FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-0062-00-PV	DUPAGE	199	176
CONTRACT NO: 83373				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ORIGINAL SURVEY BY DATE  
 SURVEYED BY DATE  
 PLOTTED BY DATE  
 NOTE BOOK NO. DATE  
 AREAS CHECKED

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FINAL SURVEY BY DATE  
 SURVEYED BY DATE  
 PLOTTED BY DATE  
 NOTE BOOK NO. DATE  
 AREAS CHECKED

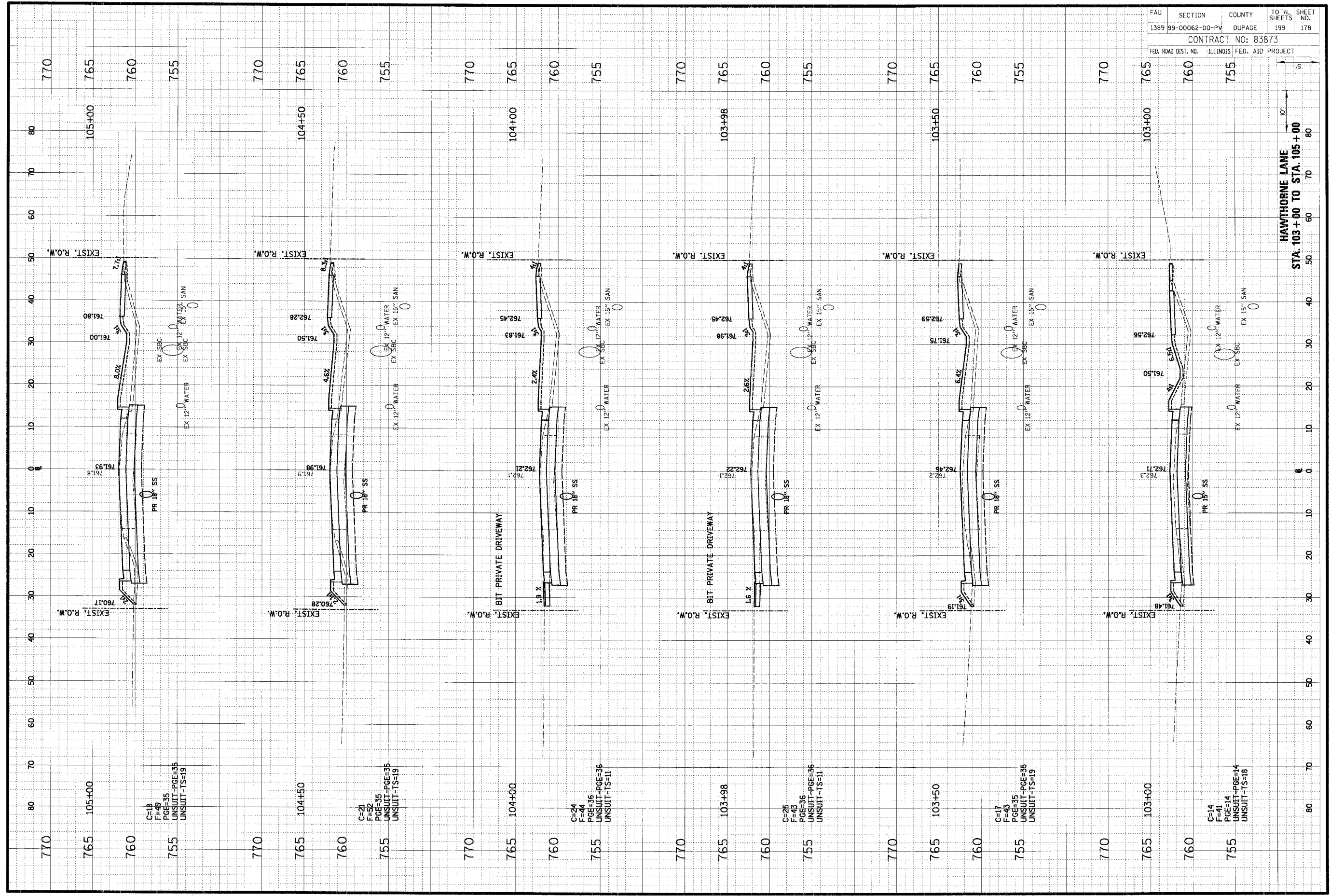


FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-0062-00-PV	DUPAGE	199	177
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	DATE
NOTED BOOK	BY
AREAS	DATE
AREAS CHECKED	

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ORIGINAL SURVEY	DATE
NOTED BOOK	BY
AREAS	DATE
AREAS CHECKED	



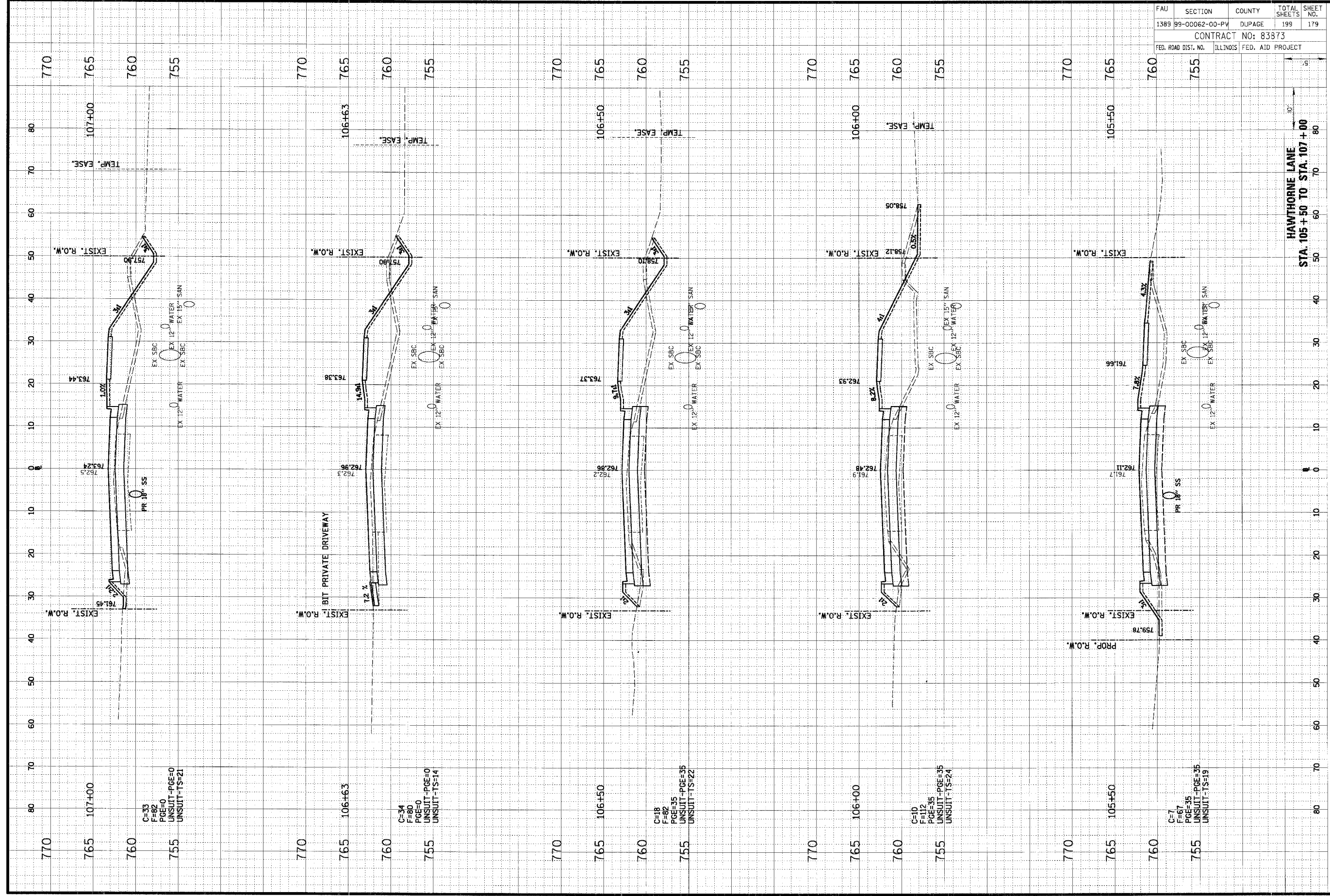
FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	178
CONTRACT NO: 83873				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

HAWTHORNE LANE  
 STA. 103+00 TO STA. 105+00

ORIGINAL SURVEY	DATE
NO. _____	BY _____
NOTE BOOK	DATE
AREAS CHECKED	BY _____
AREAS CHECKED	DATE

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FINAL SURVEY	DATE
NO. _____	BY _____
NOTE BOOK	DATE
AREAS CHECKED	BY _____
AREAS CHECKED	DATE

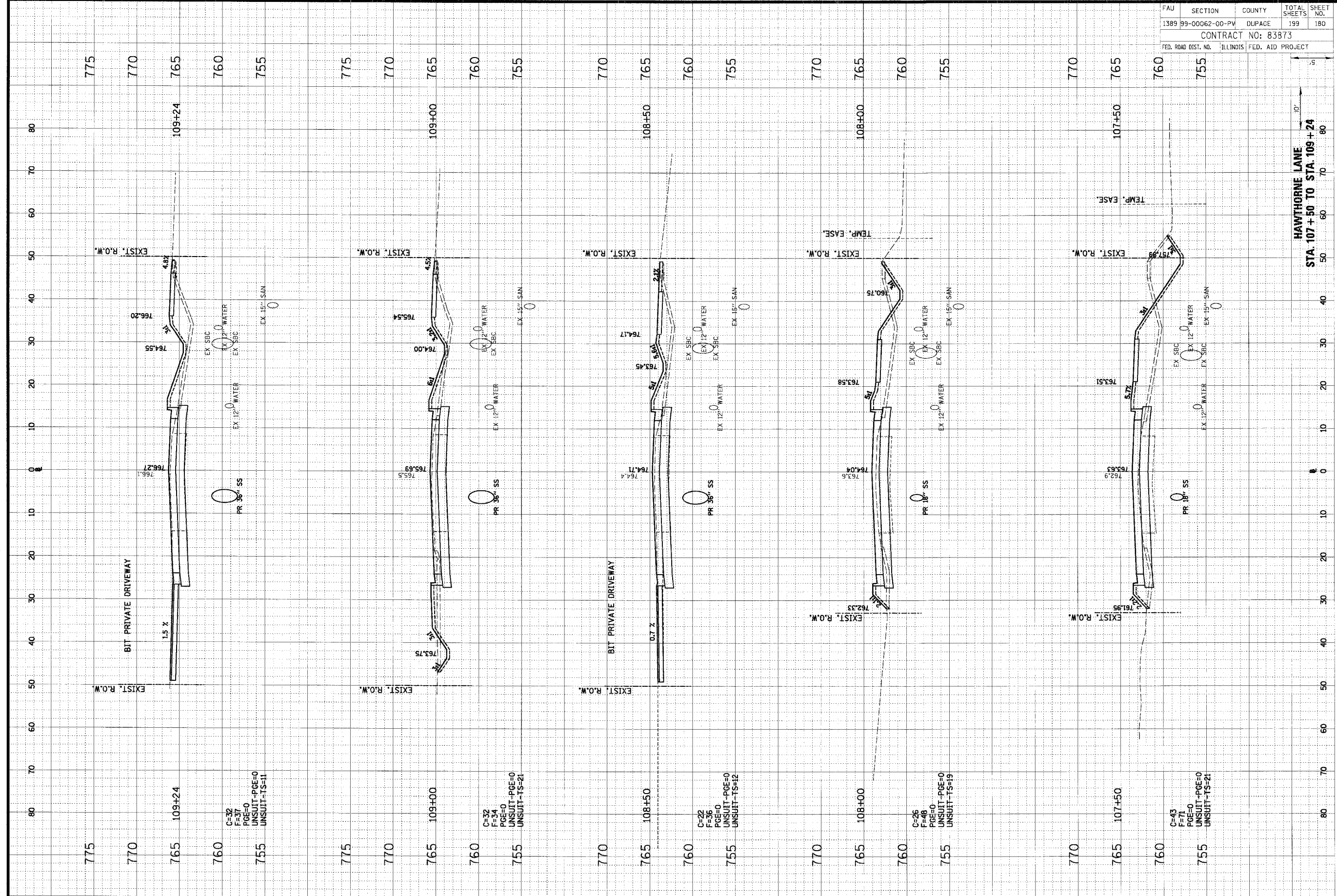


FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	179
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ORIGINAL SURVEY	DATE
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BY	
DATE	

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FINAL SURVEY	DATE
BY	
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BY	
DATE	
BY	
DATE	
BY	
DATE	



FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PW	DUPAGE	199	180
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

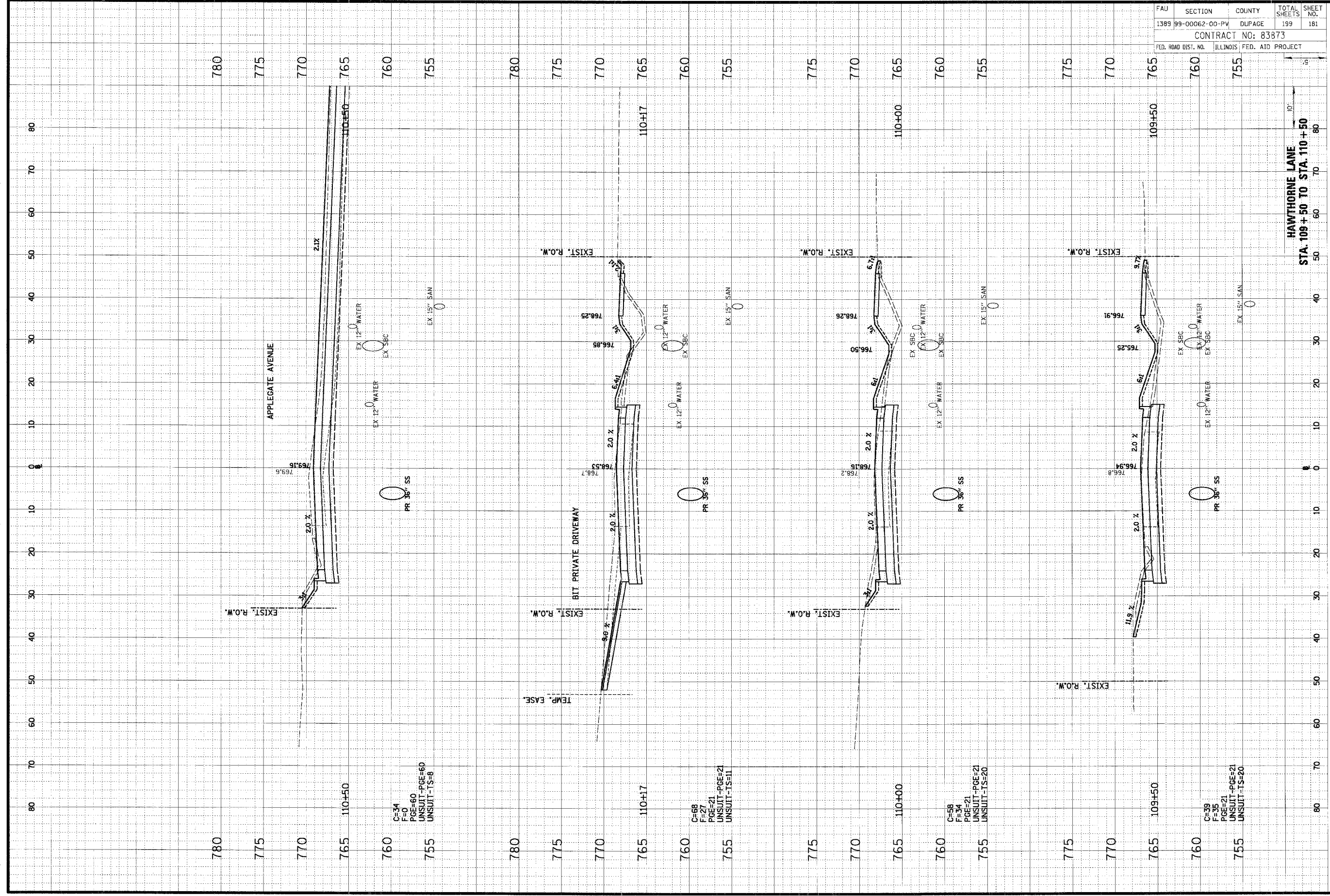
HAWTHORNE LANE  
 STA. 107+50 TO STA. 109+24



ORIGINAL SURVEY	DATE
SUPP-10	BY
NOTE BOOK	TEMP. AT
AREA	AREA
AREA	AREA
AREA	AREA

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FINAL SURVEY	DATE
NOTE BOOK	BY
TEMP. AT	AREA
AREA	AREA
AREA	AREA



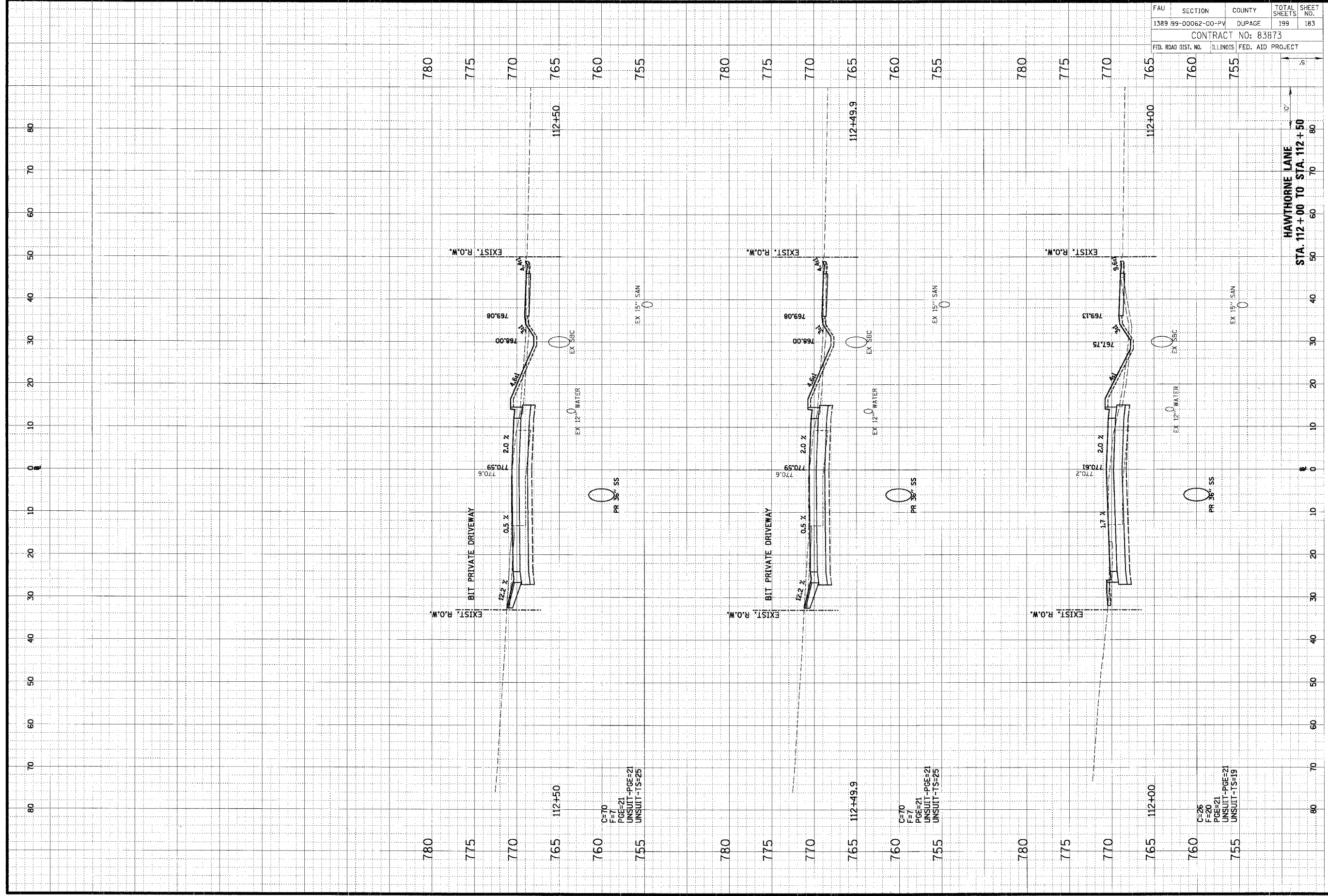
FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	181
CONTRACT NO: 83873				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	TEMP. PLATE		
NO.	AREAS CHECKED		

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FINAL SURVEY	REVISIONS	BY	DATE
NOTE BOOK	TEMP. PLATE		
NO.	AREAS CHECKED		



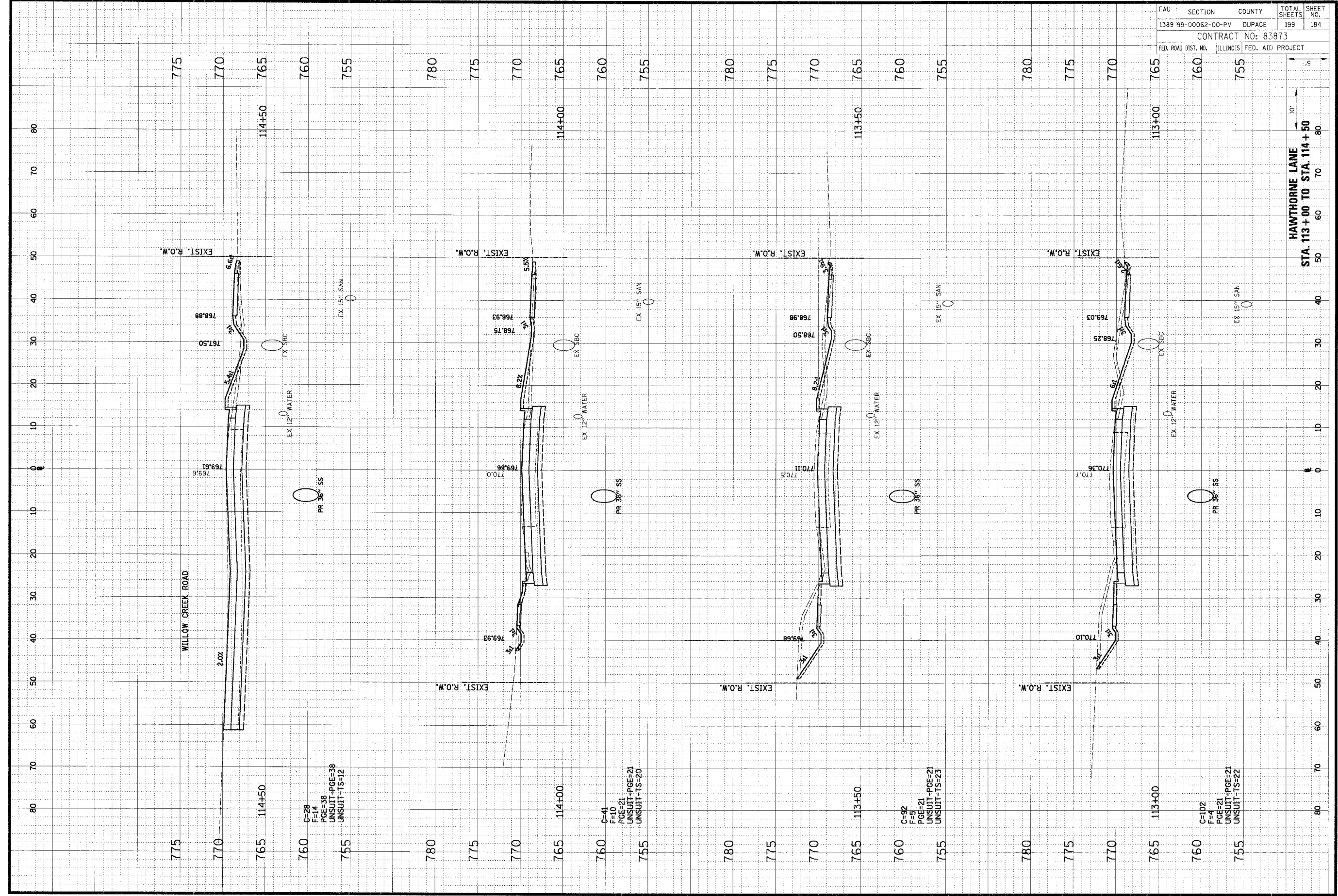
FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	183
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

HAWTHORNE LANE  
 STA. 112+00 TO STA. 112+50

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
AREAS	CHECKED	
AREAS	CHECKED	

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FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
AREAS	CHECKED	
AREAS	CHECKED	



FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389 99-00062-00-PV	DUPAGE		199	184
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

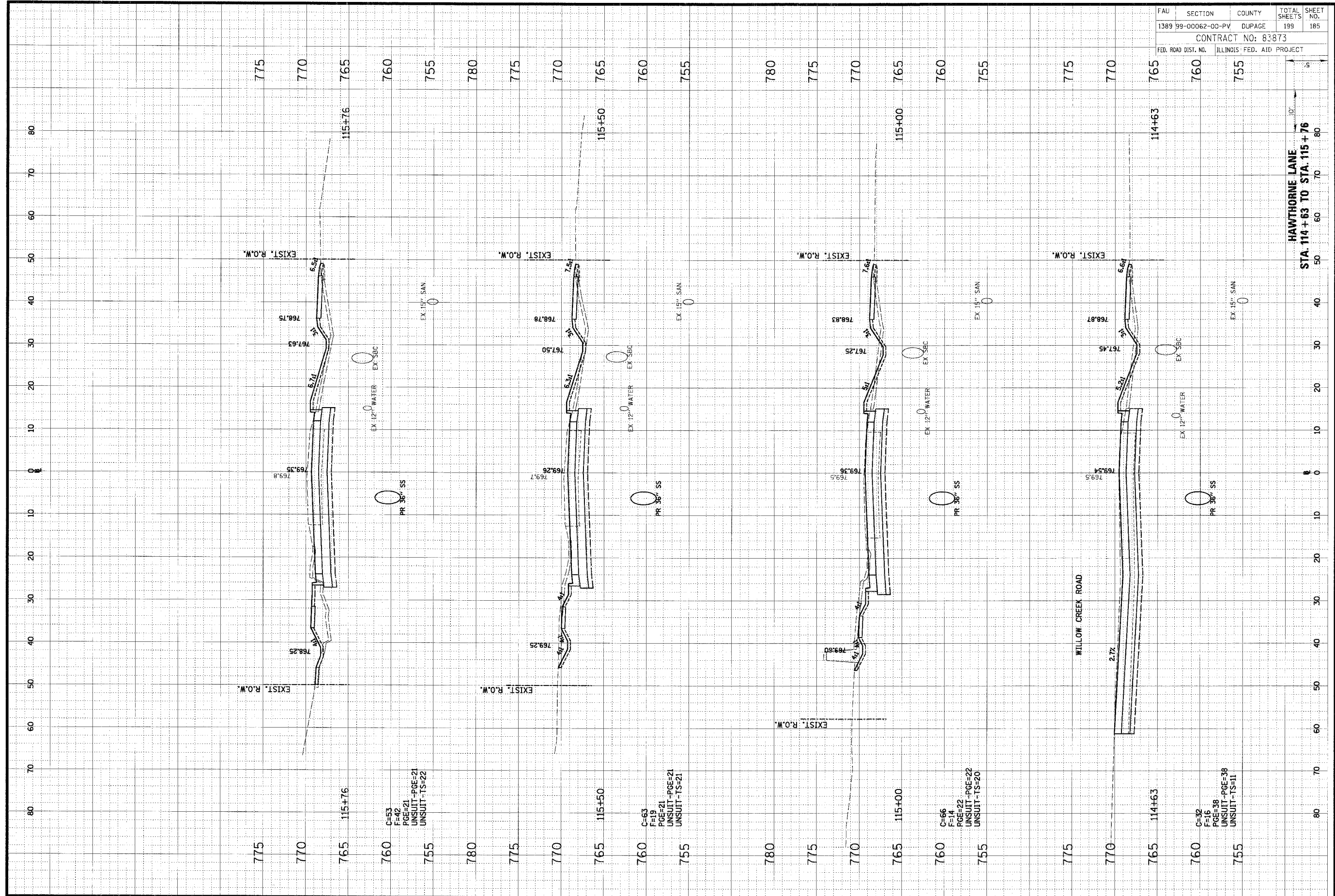
HAWTHORNE LANE  
 STA. 113+00 TO STA. 114+50

ORIGINAL SURVEY NOTE BOOK NO.	DATE
CHECKED SURVEY NOTE BOOK NO.	DATE
DESIGNED SURVEY NOTE BOOK NO.	DATE
PLANNED SURVEY NOTE BOOK NO.	DATE
REVISIONS	

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ORIGINAL SURVEY NOTE BOOK NO.	DATE
CHECKED SURVEY NOTE BOOK NO.	DATE
DESIGNED SURVEY NOTE BOOK NO.	DATE
PLANNED SURVEY NOTE BOOK NO.	DATE
REVISIONS	

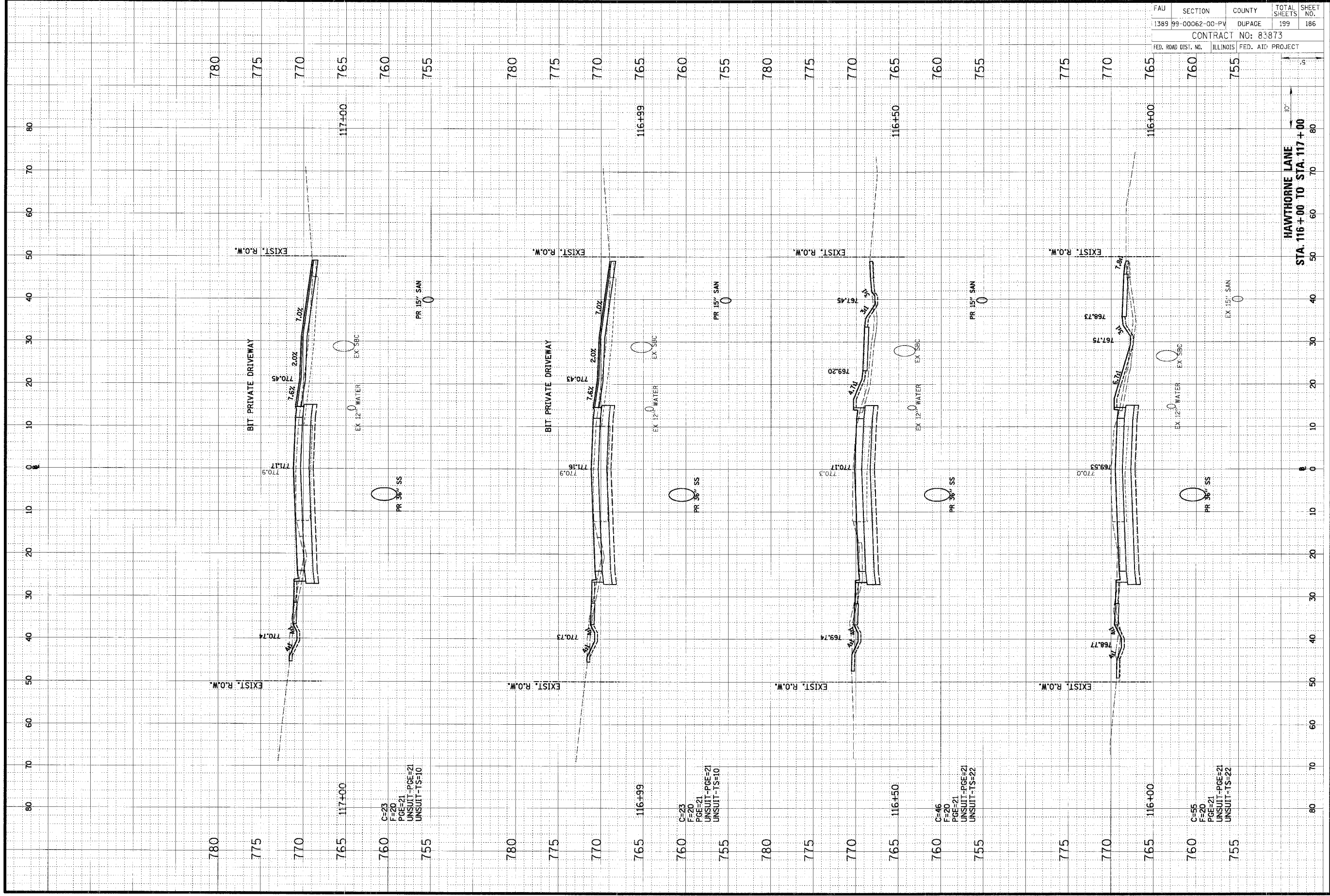


FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	185
CONTRACT NO: 83873				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

ORIGINAL SURVEY	BY	DATE
NOTED AREAS		
NOTED AREAS		
AREAS PROVIDED		

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FINAL SURVEY	BY	DATE
NOTED AREAS		
NOTED AREAS		
AREAS CHECKED		

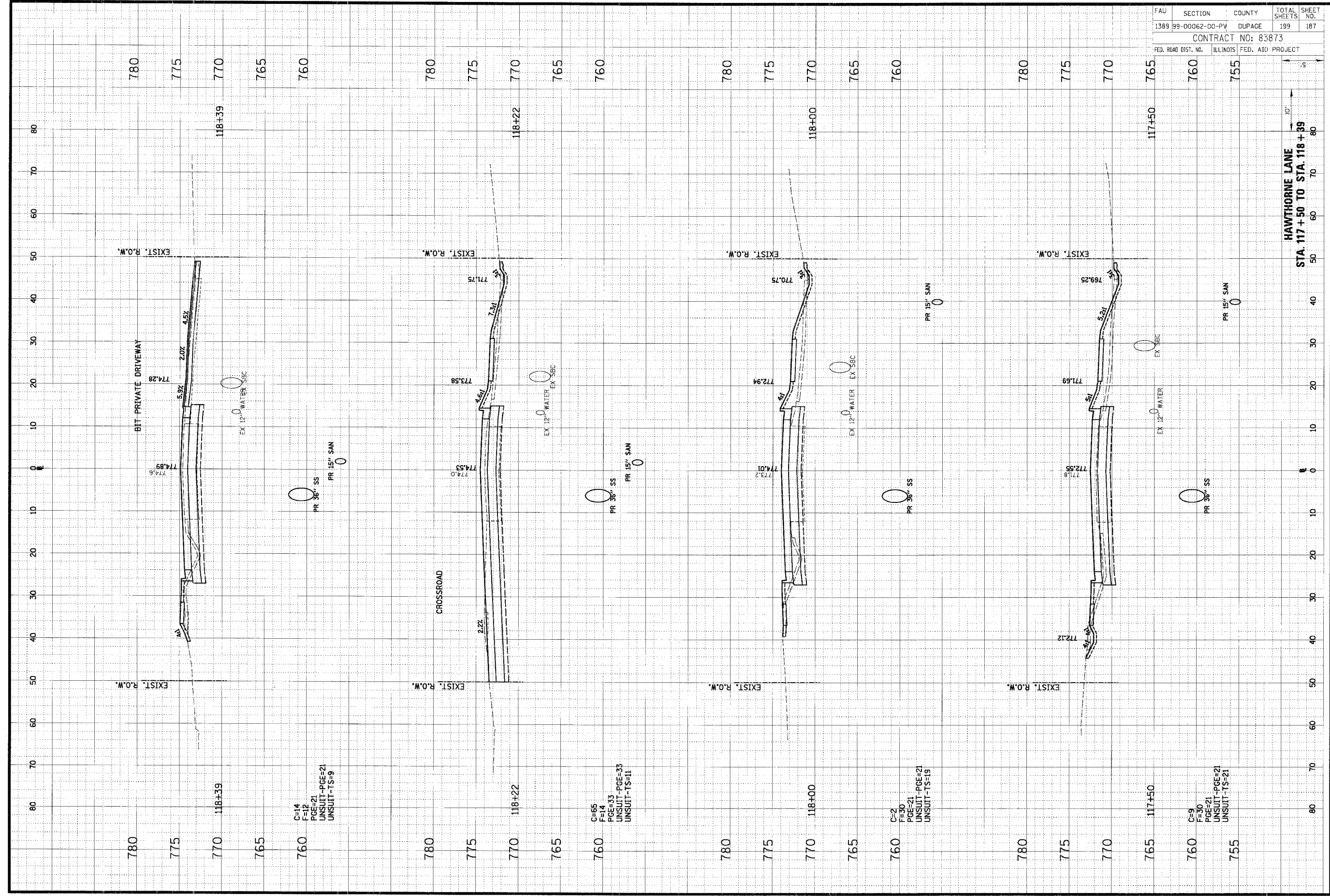


FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	186
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ORIGINAL SURVEY	DATE
DATE	BY
NOTE BOOK	NO. _____
AREAS	NO. _____
AREAS CHECKED	NO. _____

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FINAL SURVEY	DATE
DATE	BY
NOTE BOOK	NO. _____
AREAS	NO. _____
AREAS CHECKED	NO. _____

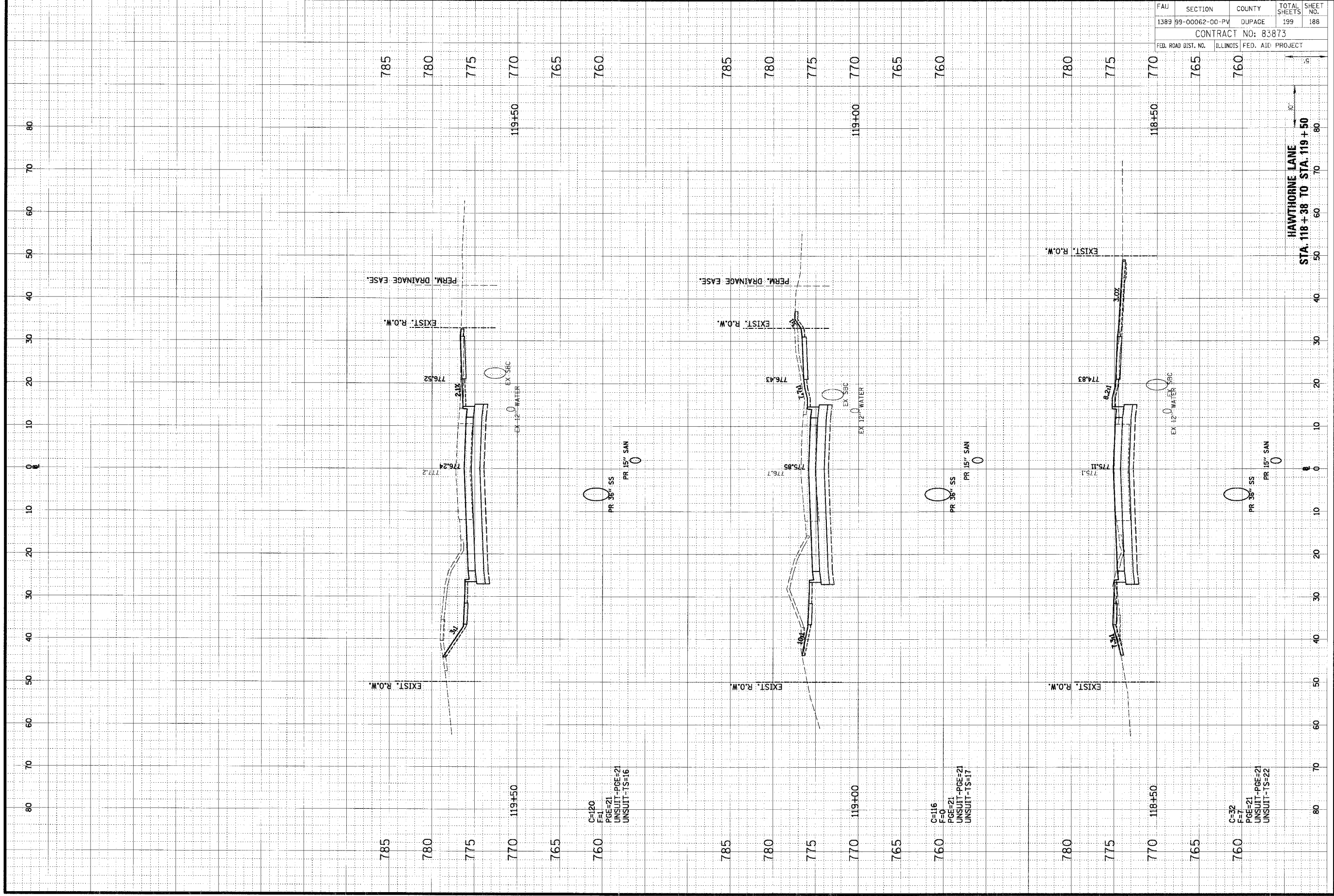


FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	187
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ORIGINAL SURVEY	DATE
REVISIONS	BY
NO. DATE	
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DATE	

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FINAL SURVEY	DATE
REVISIONS	BY
NO. DATE	
BY	
DATE	



FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	188
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

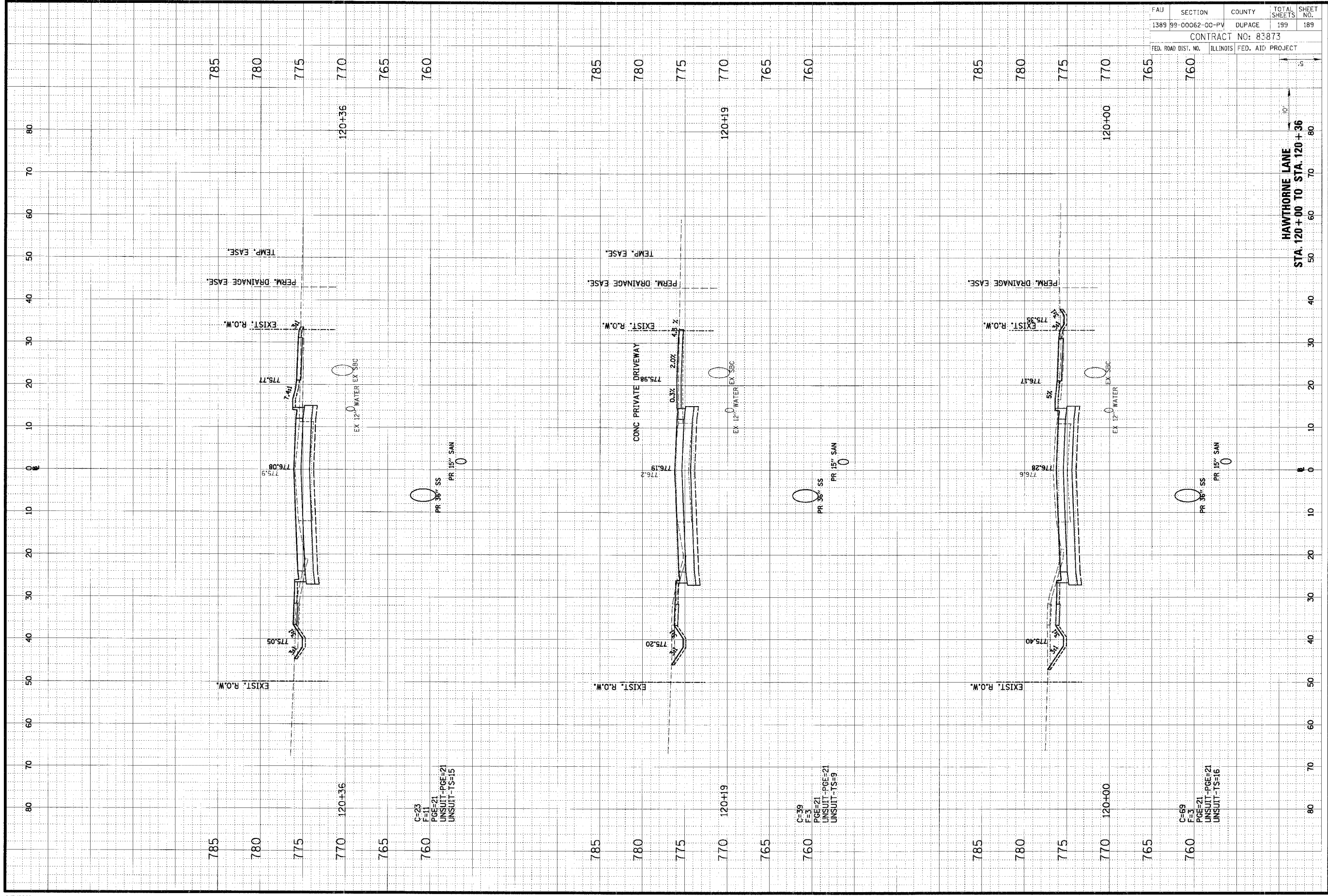
HAWTHORNE LANE  
 STA. 118+38 TO STA. 119+50



ORIGINAL SURVEY	SUPERVISOR	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	AREAS CHECKED	

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FINAL SURVEY	DATE
NOTE BOOK	PLOTTED
AREAS CHECKED	AREAS CHECKED



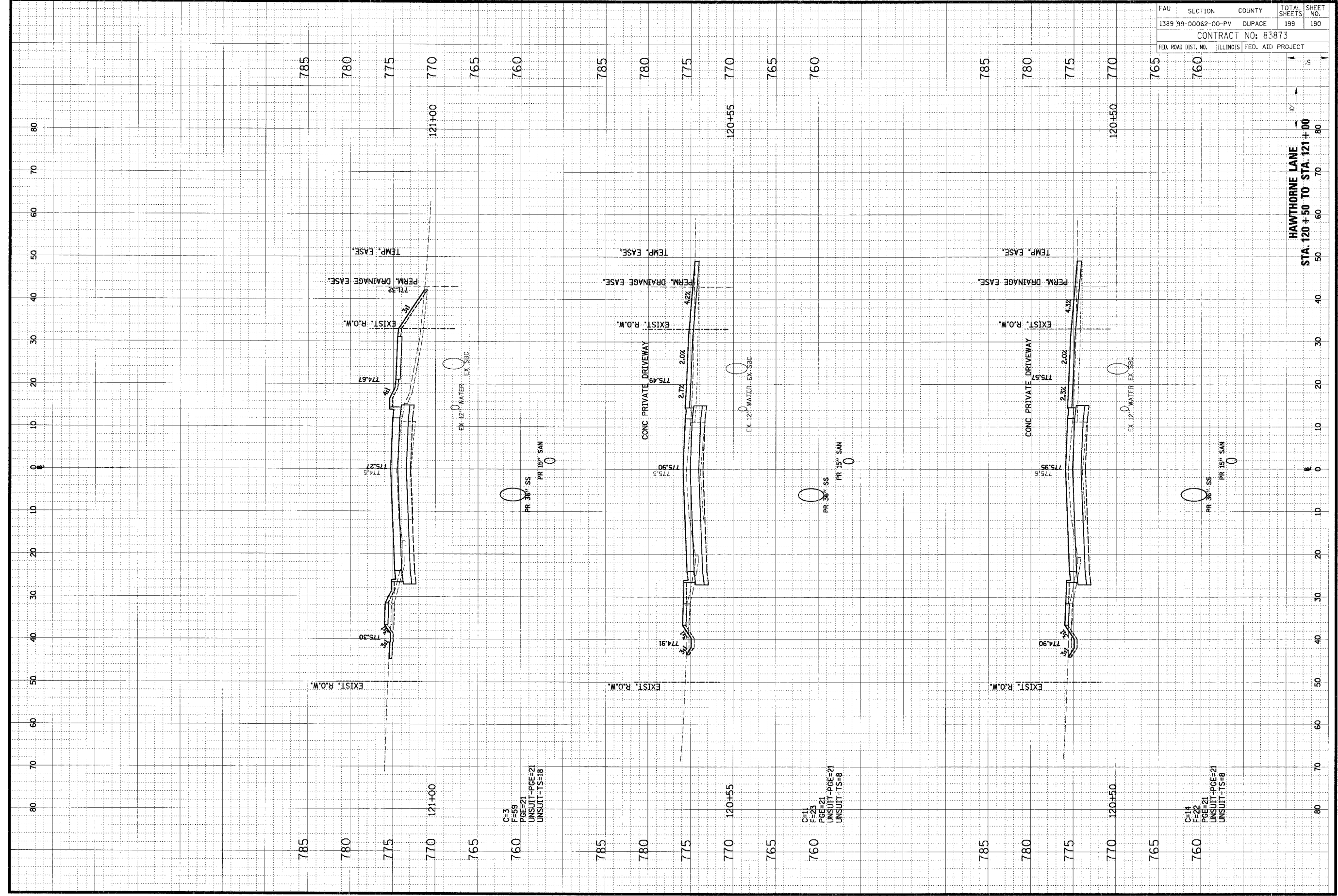
FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	189
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

HAWTHORNE LANE  
 STA. 120+00 TO STA. 120+36

ORIGINAL SURVEY	DATE
NO. BOOK	BY
AREAS CHECKED	

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FINAL SURVEY	DATE
NO. BOOK	BY
AREAS CHECKED	



FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	190
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

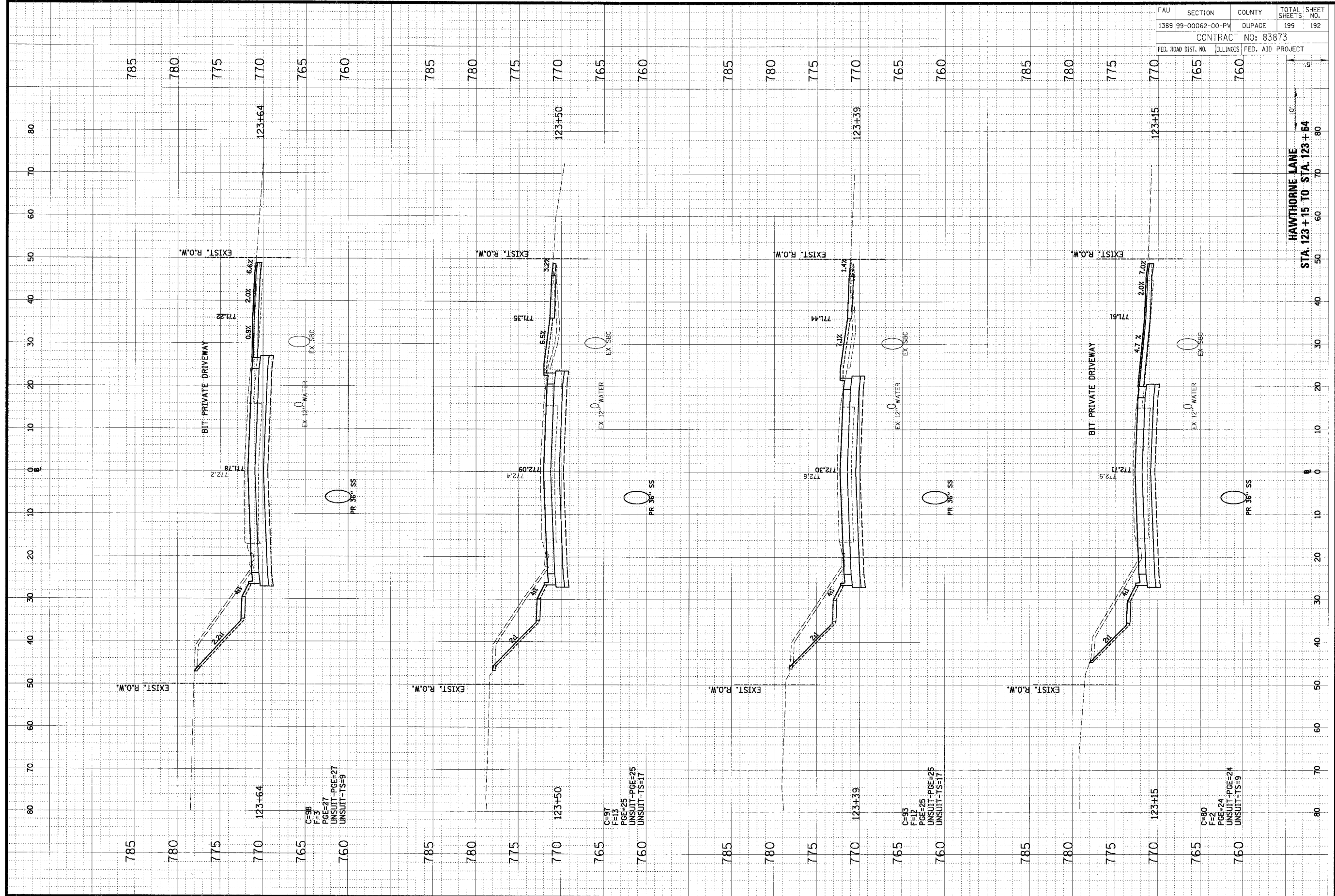
HAWTHORNE LANE  
 STA. 120+50 TO STA. 121+00



ORIGINAL SURVEY	DATE
REVISIONS	BY
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FINAL SURVEY	DATE
NO. 1	
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NO. 96	
NO. 97	
NO. 98	
NO. 99	
NO. 100	



FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	192
CONTRACT NO: 83873				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

HAWTHORNE LANE  
 STA. 123+15 TO STA. 123+64

C=93  
 F=12  
 PGE=25  
 UNSUIT-PGE=25  
 UNSUIT-TS=17

C=80  
 F=2  
 PGE=24  
 UNSUIT-PGE=24  
 UNSUIT-TS=9

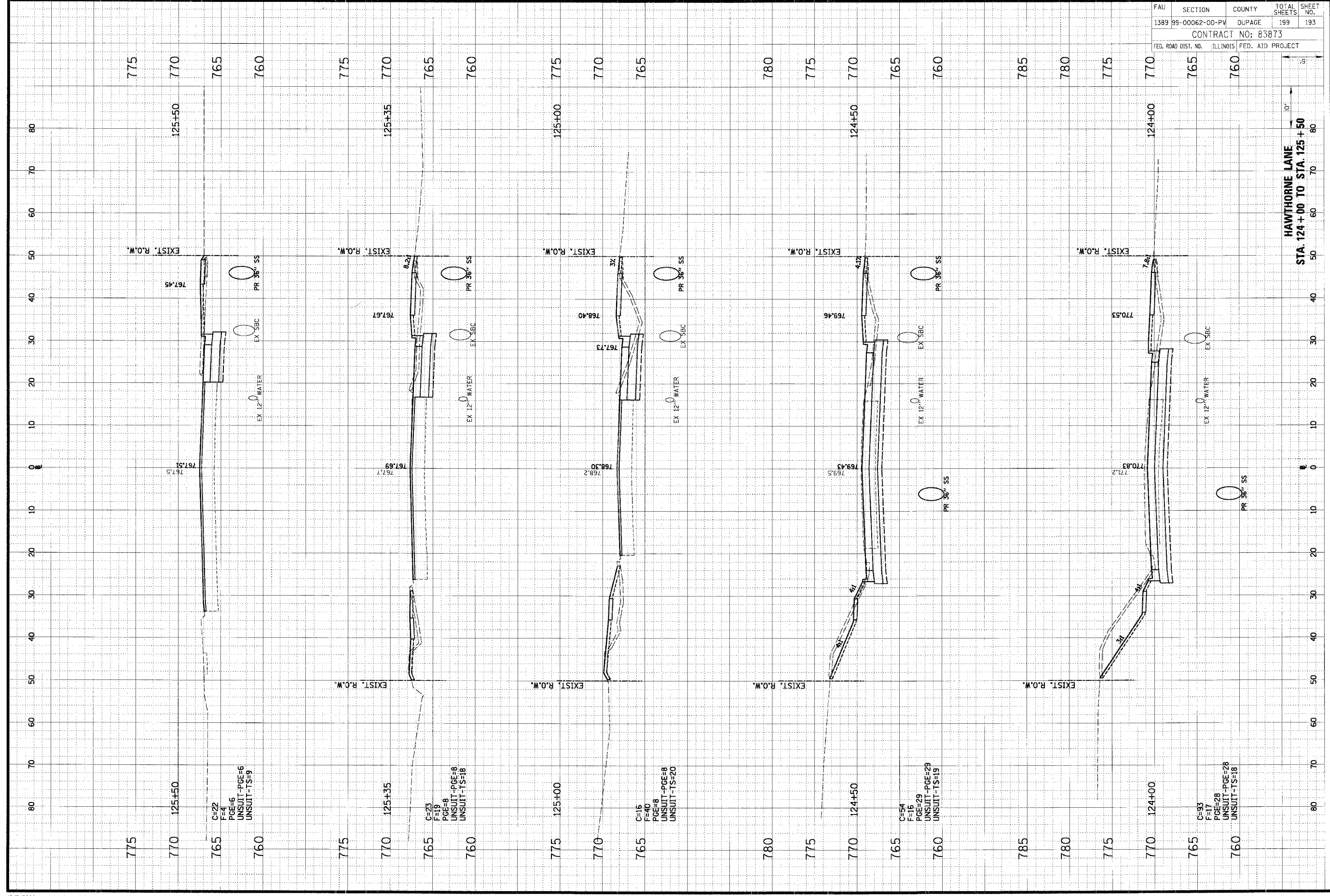
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 F=15  
 PGE=25  
 UNSUIT-PGE=25  
 UNSUIT-TS=17

C=96  
 F=3  
 PGE=27  
 UNSUIT-PGE=27  
 UNSUIT-TS=9

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	FIELD		
NO.	AREAS	AREAS	AREAS
	CHECKED		

**CHRISTOPHER B. BURKE ENGINEERING LTD.**  
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FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	FIELD		
NO.	AREAS	AREAS	AREAS
	CHECKED		



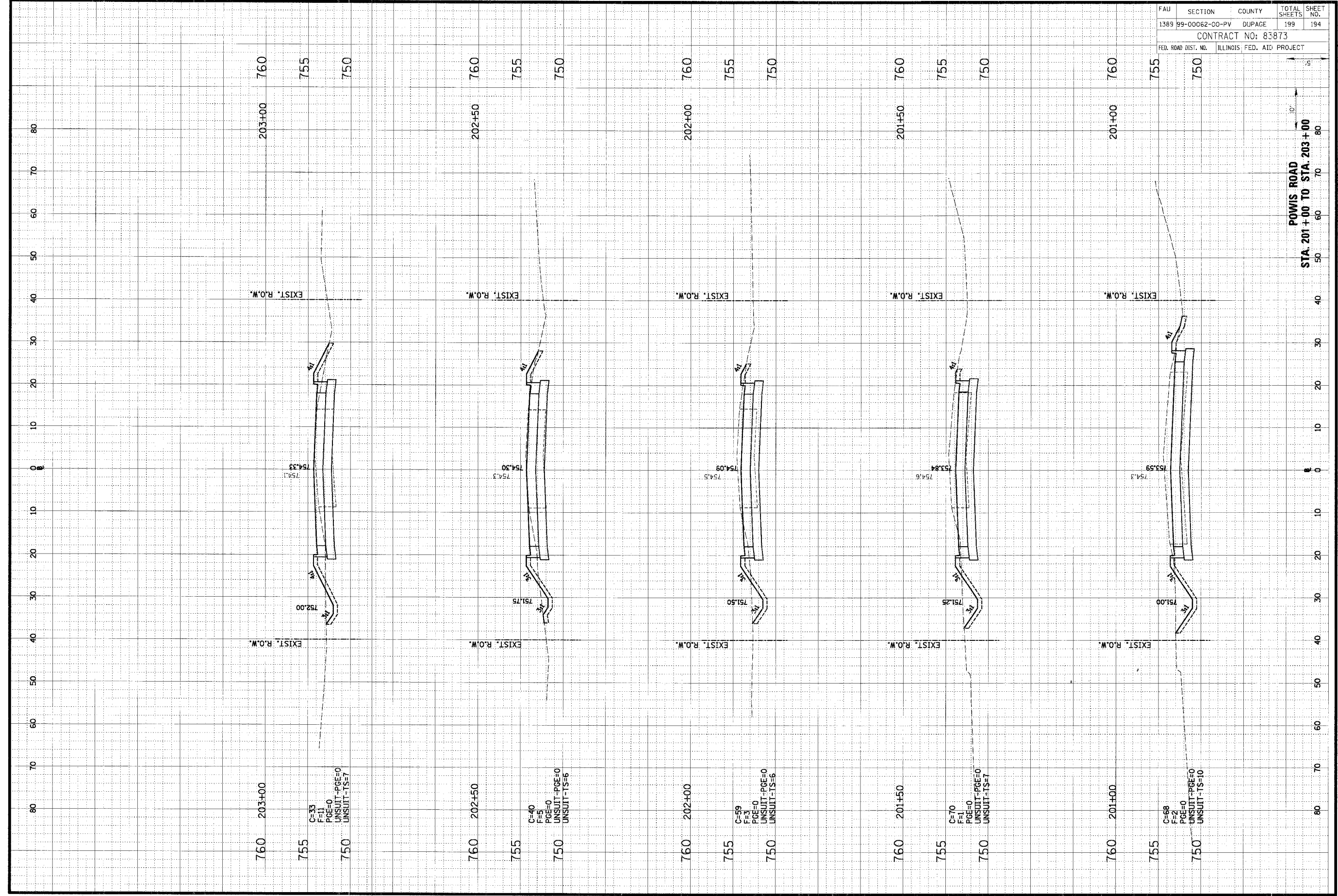
FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	193
CONTRACT NO: 83873				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

HAWTHORNE LANE  
 STA. 124+00 TO STA. 125+50

ORIGINAL SURVEY	SHEETED	DATE
NOTY BOOK	PLOTTED	BY
NO.	AREAS CHECKED	

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FINAL SURVEY	SHEETED	DATE
NOTY BOOK	PLOTTED	BY
NO.	AREAS CHECKED	



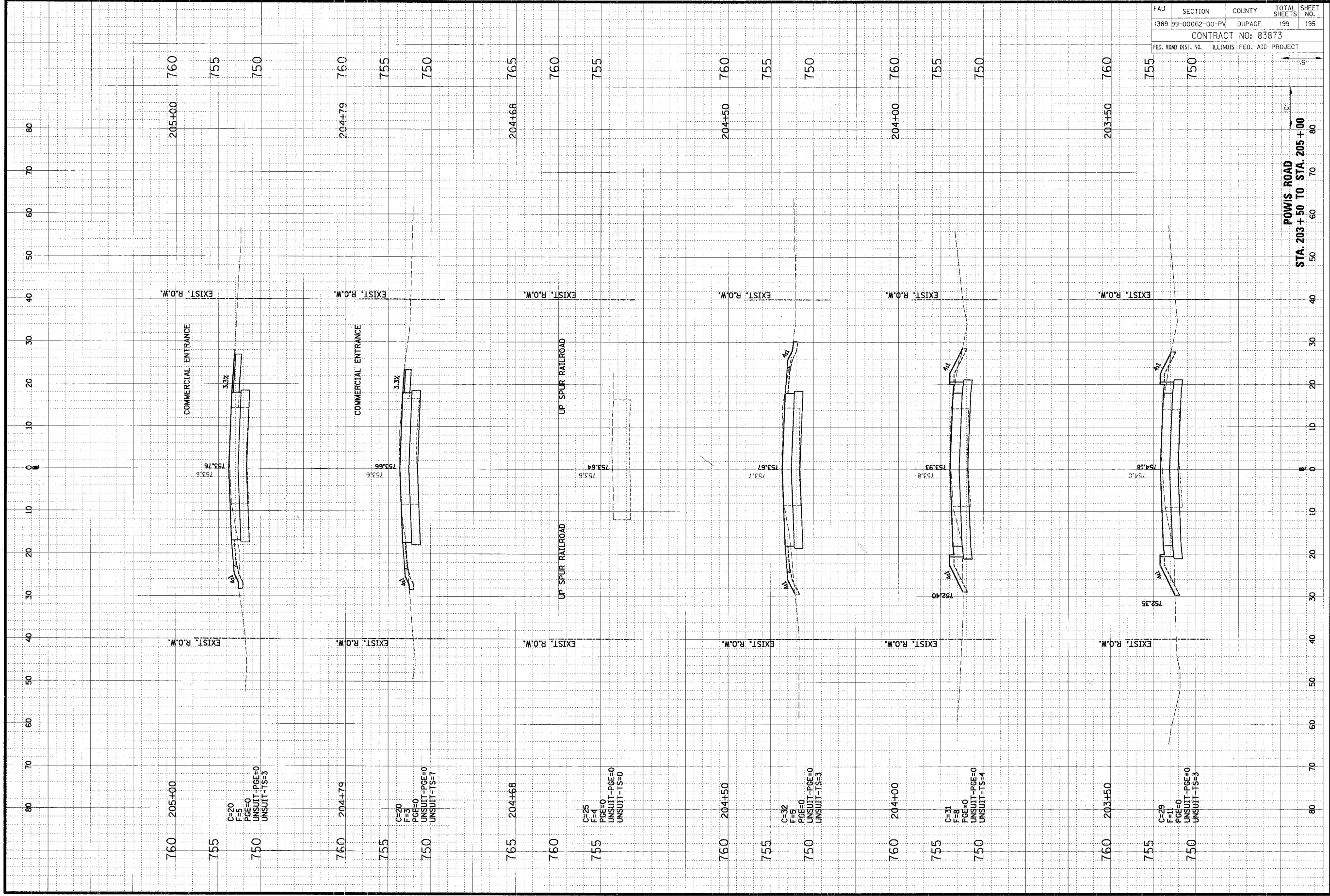
FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	194
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

POWIS ROAD  
 STA. 201+00 TO STA. 203+00

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	TOTAL SHEETS		
AREAS	PLOTTED		
AREAS CHECKED	DATE		

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FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	TOTAL SHEETS		
AREAS	PLOTTED		
AREAS CHECKED	DATE		

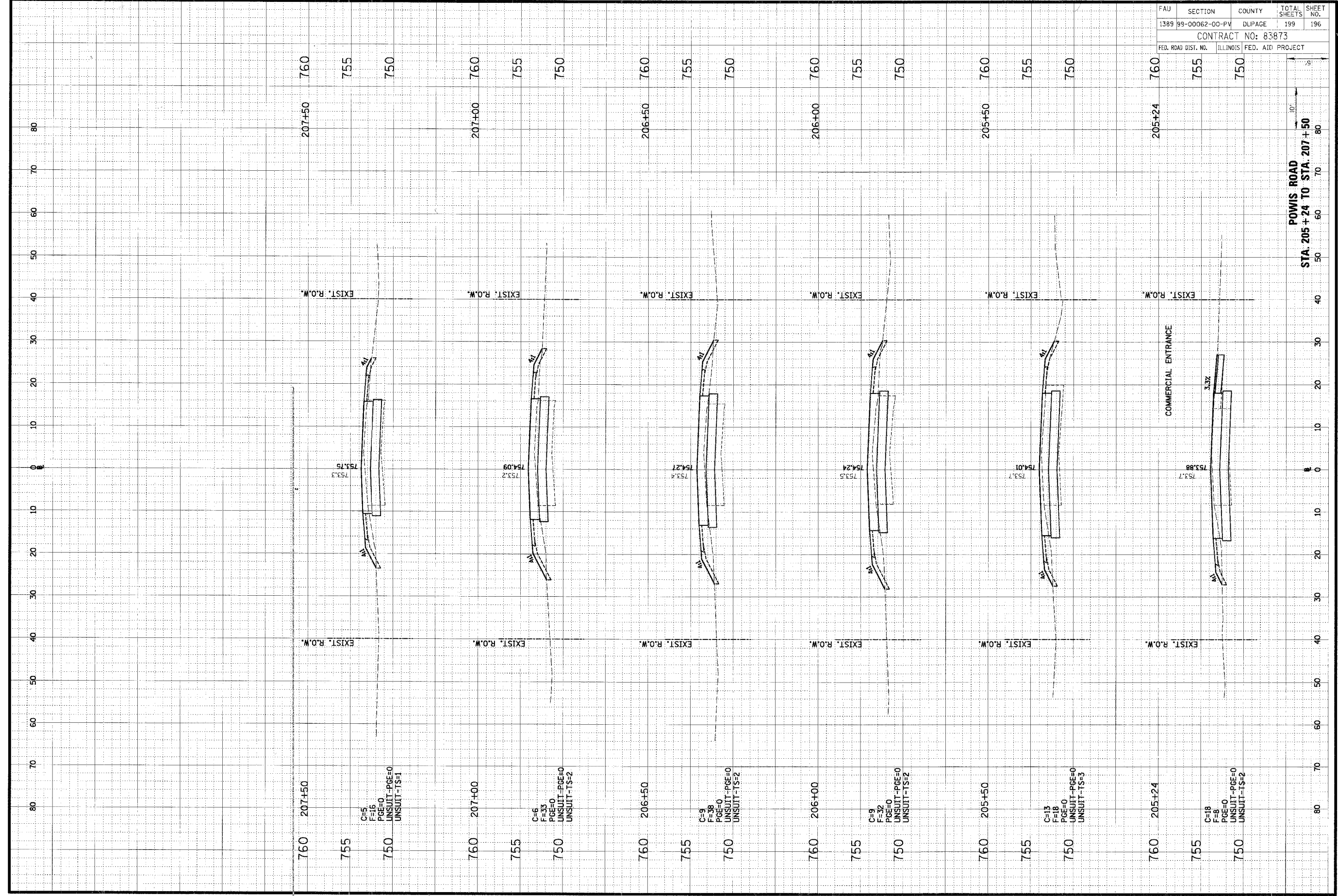


FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	195
CONTRACT NO: 83873				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

ORIGINAL SURVEY	DATE
NO. BOOK	BY
AREAS	
AREAS CHECKED	

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FINAL SURVEY	DATE
NO. BOOK	BY
AREAS	
AREAS CHECKED	



FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DLPAGE	199	196
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS		FED. AID PROJECT	

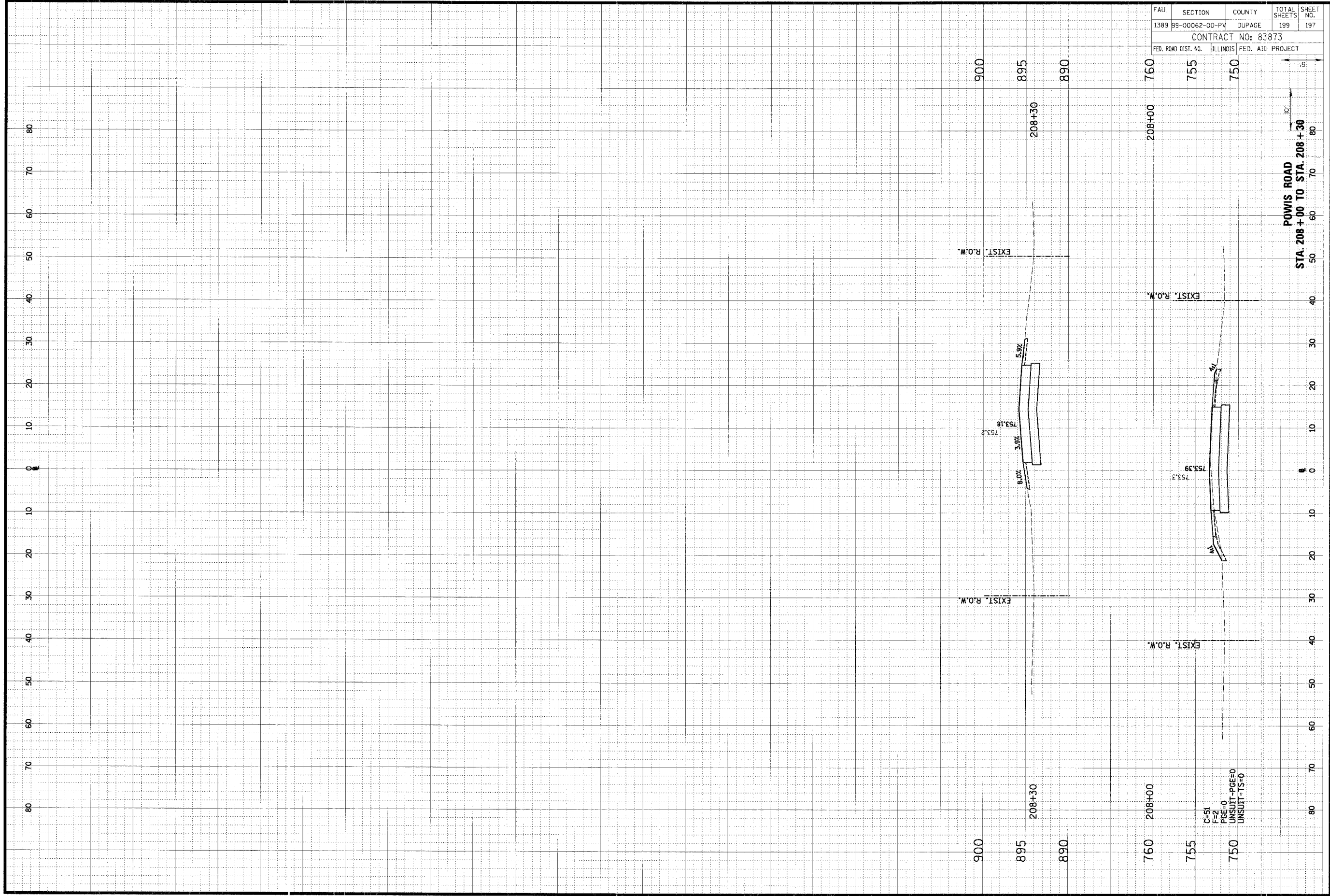
POWIS ROAD  
 STA. 205+24 TO STA. 207+50



ORIGINAL SURVEY	DATE
NOTE BOOK	BY
NO.	

**CB**  
**CHRISTOPHER B. BURKE ENGINEERING LTD.**  
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 Rosemont, Illinois 60018  
 (847) 823-0500

FINAL SURVEY	DATE
NOTE BOOK	BY
NO.	

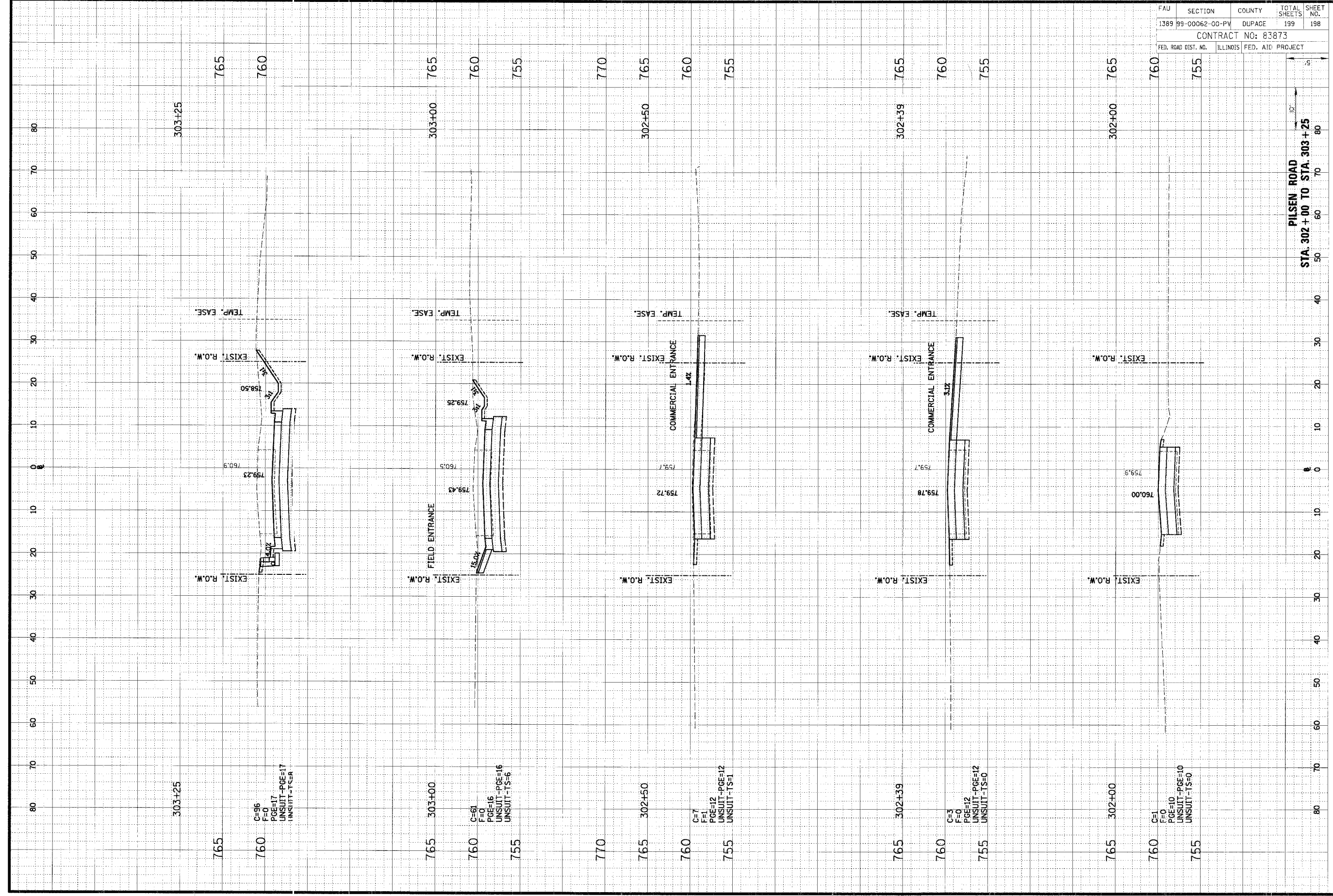


FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	197
CONTRACT NO: 83873				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

ORIGINAL SURVEY	DATE	BY
NO. _____	_____	_____
NOTE BOOK	DATE	BY
NO. _____	_____	_____
AREAS CHECKED		

**CHRISTOPHER B. BURKE ENGINEERING LTD.**  
 3575 West Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

NO. _____	DATE	BY
NO. _____	_____	_____
NO. _____	_____	_____
NO. _____	_____	_____
NO. _____	_____	_____



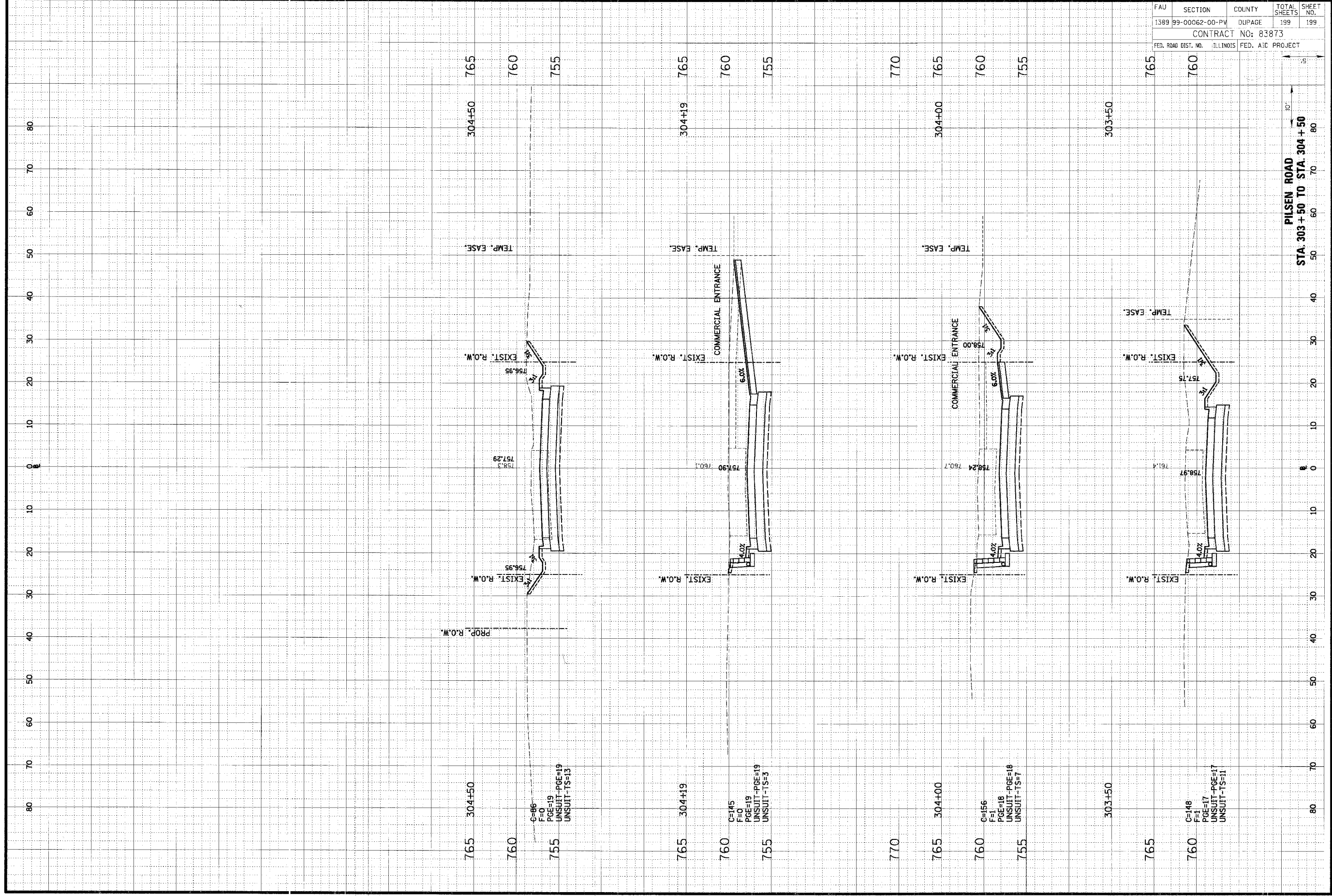
FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	198
CONTRACT NO: 83873				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PILSEN ROAD  
 STA. 302+00 TO STA. 303+25

ORIGINAL SURVEY	DATE
BY	
NOTE BOOK	DATE
APPROVED	
APPROVED	

**CHRISTOPHER B. BURKE ENGINEERING LTD.**  
 9575 West Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

INCL. SURVEY	BY	DATE
NOTE BOOK		
APPROVED		
APPROVED		



FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1389	99-00062-00-PV	DUPAGE	199	199
CONTRACT NO: 83873				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PIESEN ROAD  
 STA. 303 + 50 TO STA. 304 + 50