

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
1004	08-00079-00-FP	COOK	94	1
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED  
FEDERAL AID HIGHWAY**

FAU ROUTE 1004 (BLUFF AVENUE)  
47th STREET (FAU ROUTE 1488) TO  
COSSITT AVENUE (FAU ROUTE 1365)

ROADWAY RECONSTRUCTION AND UTILITY IMPROVEMENTS

SECTION 08-00079-03-FP  
PROJECT NO. M-9003 (514)  
COOK COUNTY  
C-91-140-10

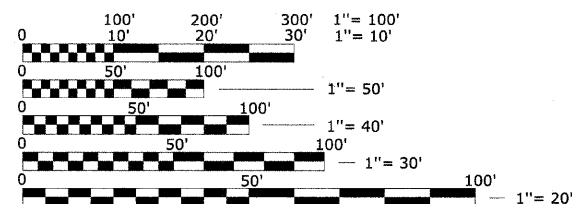
FOR INDEX OF SHEETS SEE SHEET NO. 2

**PROJECT STAGE 3**  
SEE SHEET 19 FOR SEQUENCE OF STAGES

PROJECT LOCATED IN THE VILLAGE OF LA GRANGE

POSTED SPEED LIMIT: 25  
DESIGN SPEED LIMIT: 30  
EXISTING ADT: 3,696 (2000)  
DESIGN ADT: 4,157 (2025)  
ROADWAY CLASSIFICATION: URBAN COLLECTOR

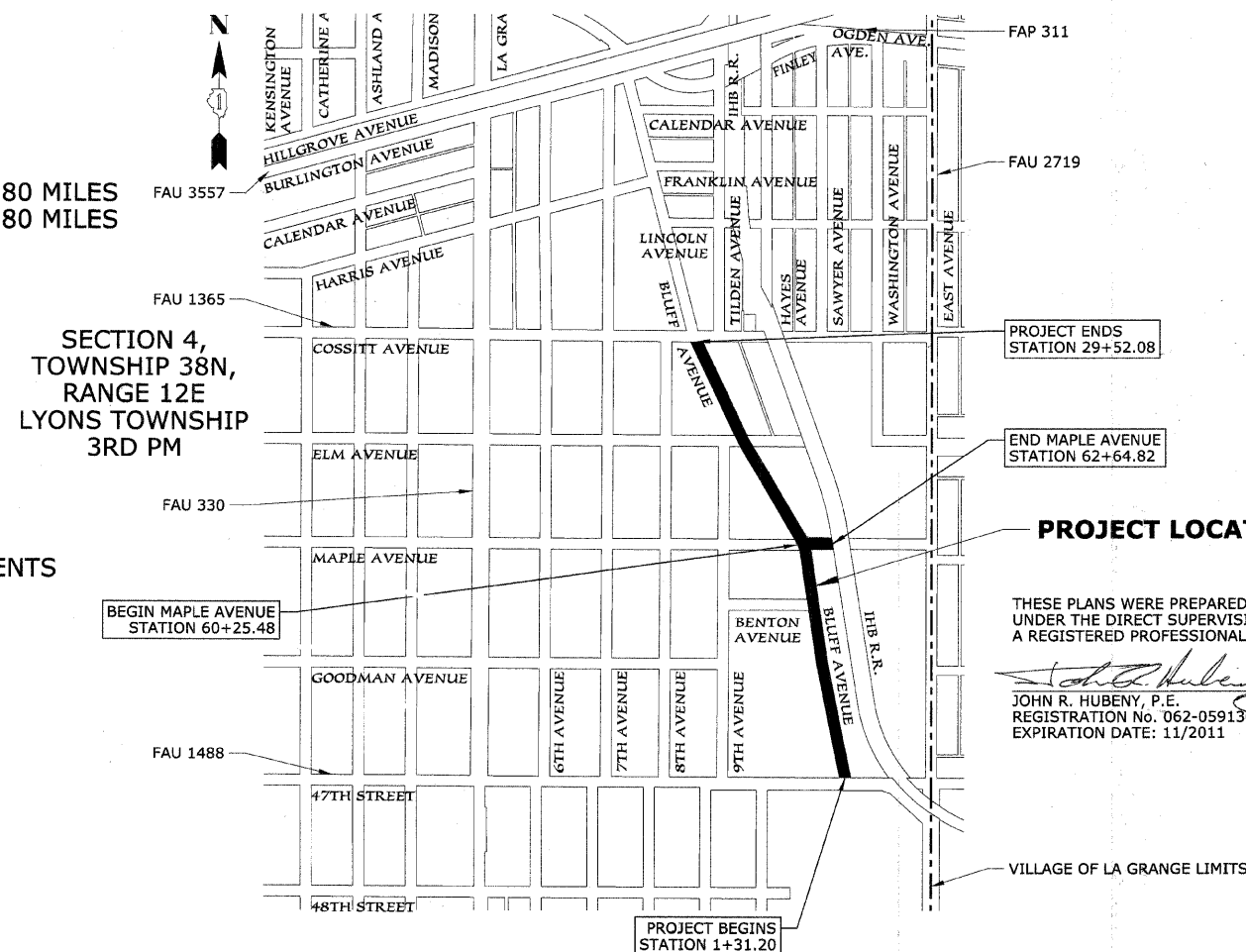
GROSS LENGTH OF PROJECT = 3,060.22 LINEAL FEET = 0.580 MILES  
NET LENGTH OF PROJECT = 3,060.22 LINEAL FEET = 0.580 MILES



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



CONTRACT NO. 63353



THESE PLANS WERE PREPARED BY HEUER AND ASSOCIATES, P.C. UNDER THE DIRECT SUPERVISION OF JOHN R. HUBENY, P.E., A REGISTERED PROFESSIONAL ENGINEER OF THE STATE OF ILLINOIS.

DATE: 01/05/2010  
JOHN R. HUBENY, P.E.  
REGISTRATION No. 062-059136  
EXPIRATION DATE: 11/2011



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

APPROVED: January 18, 2010  
*Ron Chittell*  
VILLAGE OF LA GRANGE, DIRECTOR OF PUBLIC WORKS

PASSED: FEBRUARY 3, 2010  
*CT Holtz*  
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW: FEBRUARY 3, 2010  
*Diana M. O'Keefe*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

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**HEUER AND ASSOCIATES**  
Consulting Engineers  
2315 Enterprise Drive - Suite 102 Westchester, IL 60154-5811 708-492-1000

FIELD ENGINEER - MARILIN SOLOMON 847-705-4407

CONTRACT No. 63353

**LEGEND**

EXISTING SYMBOL	PROPOSED SYMBOL	DESCRIPTION
		DECIDUOUS TREE
		EVERGREEN TREE
		HANDHOLE, TYPE A
		CONCRETE LIGHTPOLE - ARM TYPE
		LIGHTPOLE - LA GRANGE RESIDENTIAL STANDARD
		POWER POLE
		MANHOLE
		CATCHBASIN
		INLET
		VALVE & VAULT
		VALVE BOX
		B-BOX
		FIRE HYDRANT
		ELECTRICAL VAULT
		GULF BOX
		TELEPHONE VAULT
		BURIED ELECTRIC CABLE
		OVERHEAD ELECTRIC CABLE
		STREET LIGHTING CABLE/DUCT
		GAS MAIN
		ABANDONED GAS MAIN (VERIFY WITH NICOR)
		TELEPHONE CABLE/DUCT
		FIBER OPTIC CABLE/DUCT
		WATER MAIN
		COMBINATION SEWER
		SANITARY SEWER
		STORM SEWER
		SANITARY SEWER SERVICE
		WATER SERVICE
		RIGHT OF WAY
		EASEMENT
		MANHOLE RIM=704.99 INV=692.51 N INV=692.51 S
		STRUCTURE # RIM: 600.00 INV: 595.00
		COMBINATION CURB AND GUTTER
		PROPOSED P.C.C. DRIVEWAY
		PROPOSED P.C.C. SIDEWALK
		PROPOSED PATCH
		PROPOSED HMA SURFACE COURSE FOR BUTT JOINTS
		PROPOSED DETECTABLE WARNING PLATE
		STREET ADDRESS 777

PLAN	DATE
SURVEYED	BY
NOTE BOOK	NO.
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	
GRID FILE NAME	

PROFILE	DATE
SURVEYED	BY
NOTE BOOK	NO.
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	

**INDEX OF SHEETS**

SHEET NUMBER	DRAWING TITLE
1	COVER SHEET
2	INDEX OF SHEETS, STATE STANDARDS AND LEGEND
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5-8	SCHEDULE OF QUANTITIES
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13	MAINTENANCE OF TRAFFIC
14-17	CONSTRUCTION PHASING & LOCAL TRAFFIC PATTERN
18	ROUTE OUTLET MAP
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77-78	STATIONED CROSS-SECTIONS - MAPLE AVENUE
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**STATE STANDARDS**

STANDARD No.	DRAWING TITLE
280001-05 442101-07 442201-03 602601-02 602701-02 604001-03 604086-02 606001-04 701501-05 701606-06 701801-04 701901-01 780001-02	TEMPORARY EROSION CONTROL SYSTEMS CLASS B PATCHES CLASS C AND D PATCHES PRECAST REINFORCED CONCRETE FLAT SLAB TOP MANHOLE STEPS FRAME AND LIDS - TYPE 1 FRAME AND GRATE - TYPE 23 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER URBAN LANE CLOSURE, 2L, 2W UNDIVIDED URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE TRAFFIC CONTROL DEVICES TYPICAL PAVEMENT MARKINGS
DISTRICT 1 STANDARDS BD 22 BD 32 TC 10  TC 11 TC 13 TC 14 TC 22	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT BUTT JOINTS AND HMA TAPER TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) DISTRICT ONE TYPICAL PAVEMENT MARKING TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) ARTERIAL ROAD INFORMATION SIGN

REVISIONS	
NAME	DATE
PER IDOT	01-04-10
PER VLG	01-12-10

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BLUFF AVENUE IMPROVEMENTS  
STAGE 3**

**INDEX OF SHEETS, STATE STANDARDS  
AND LEGEND**

SCALE: DATE 11/30/2009 DRAWN BY H&A CHECKED BY JRH











SCHEDULE OF QUANTITIES - SEWER PIPE																		
SHEET	UPSTREAM STRUCTURE # or (STATION)	UPSTREAM DEPTH	DOWNSTREAM STRUCTURE # or (STATION)	DOWNSTREAM DEPTH	AVERAGE DEPTH	PROPOSED PAY ITEM												
						550A0800 60" RCP IN TRENCH RELIEF	550B0320 8" PVC STORM	550B0320 8" PVC COMBINATION	550B0330 10" PVC SANITARY	550B0330 10" PVC STORM	550B0340 12" PVC COMBINATION	550B0340 12" PVC STORM	550B0360 15" PVC STORM	550B0380 18" RCP COMBINATION	550B0380 18" RCP STORM	550B0410 24" RCP STORM	20200200 ROCK EXCAVATION	20800150 TRENCH BACKFILL CA-6, CY
40	183	4.00	184	4.22	4.1		37										2.7	
40	184	4.49	312	5.08	4.8												15.2	
40	(310)	4.50	311	4.00	4.3		15										1.3	
40	311	4.00	312	4.54	4.3												0.9	
40	313	3.99	312	4.83	4.4					11							2.9	
40	312	5.28	600	5.70	5.5					25							2.9	
40	350	3.61	610	3.49	3.6												0.0	
41	599	4.00	600	4.31	4.2		5										0.4	
41	601	4.17	600	4.76	4.5												1.7	
41	600	5.90	825	7.57	6.7										19		84.1	
41	610	3.59	840	5.08	4.3												0.0	
41	(724)	7.50	(728)	7.50	7.5		34										12.0	
41	(757)	3.95	(758)	6.40	5.2		19										3.1	
41	824	4.17	825	4.76	4.5										19		1.7	
41	826	4.00	825	4.31	4.2		5										0.4	
41	825	7.97	1110	10.20	9.1												201.4	
41	840	5.18	1030	5.60	5.4										285	41.9	17.8	
41	936	3.58	(935)	9.00	6.3												3.1	
42	1030	5.70	1340	7.12	6.4											1.5	82.7	
42	1109	10.54	1110	9.60	10.1												21.0	
42	1110	10.20	1250	10.56	10.4											140	125.9	
42	1179	4.00	(1180)	10.70	7.4												6.8	
42	1249	4.04	1250	4.62	4.3												1.5	
42	1251	4.00	1250	4.62	4.3												1.0	
42	1250	10.56	1470	11.68	11.1												220.7	
42	1340	7.22	1480	7.44	7.3												48.5	
42	1469	4.04	1470	4.63	4.3												1.5	
42	1471	4.00	1470	4.63	4.3												1.0	
42	1470	11.68	1550	12.34	12.0												90.9	
42	1480	7.54	1573	8.21	7.9												38.0	
42	1550	13.79	(1574)	14.00	13.9												48.2	
42	1655	7.55	1573	8.21	7.9												16.8	
42	1665	13.37	(1588)	14.00	13.7												111.1	
43	2005	7.72	1655	7.45	7.6												130.7	
43	1664	4.04	1665	4.63	4.3		19										1.7	
43	1666	4.00	1665	4.63	4.3												1.0	
43	1845	12.55	1665	12.37	12.5												216.7	
43	1844	4.00	1845	4.59	4.3		19										1.7	
43	1846	9.38	1845	9.83	9.6												9.6	
43	(1847)	9.50	1846	9.38	9.4												15.0	
43	2229	8.98	1845	10.80	9.9												299.1	
43	2271	5.73	2005	7.62	6.7												78.0	
44	2228	4.36	2229	5.03	4.7		13										1.6	
44	2259	4.00	2229	5.03	4.5		35										3.7	
44	2600	6.02	2229	8.98	7.5												175.7	
44	2480	4.17	2271	5.63	4.9												27.7	
44	2599	4.04	2600	4.63	4.3												1.5	
44	2601	4.63	2600	5.26	4.9												1.7	
44	2750	5.44	2600	5.82	5.6												27.8	
44	2749	4.04	2750	4.63	4.3		19										1.7	
44	2751	4.00	2750	4.63	4.3		13										1.2	
44	2893	4.67	2750	5.11	4.9												19.1	
45	2905	4.14	2893	4.53	4.3		23										2.0	
45	2906	4.00	2893	4.53	4.3		18										0.0	
46	(6050)	6.50	6055	6.27	6.4												1.7	
46	6055	8.13	1573	8.82	8.5												0.0	
46	1573	8.31	6152	8.82	8.6												24.8	
46	(6041)	16.00	(6046)	16.00	16.0		5										13.6	
46	(6046)	16.00	(6075)	16.00	16.0		31										27.6	
46	(6075)	16.00	(1588)	16.00	16.0		14										12.4	
46	(1588)	16.00	(1574)	16.00	16.0		24										21.3	
46	(1574)	16.00	(6147)	16.00	16.0		34										25.9	
<b>TOTALS</b>						<b>108</b>	<b>274</b>	<b>46</b>	<b>2,134</b>	<b>319</b>	<b>52</b>	<b>167</b>	<b>470</b>	<b>5</b>	<b>1,013</b>	<b>1,018</b>	<b>177</b>	<b>2,569</b>

SCHEDULE OF QUANTITIES - WATER MAIN													
SHEET	STRUCTURE # or (STATION)	DEPTH	STRUCTURE # or (STATION)	DEPTH	AVERAGE DEPTH	PROPOSED PAY ITEM							
						56103000 6" DIP	56103100 8" DIP	56103300 12" DIP	60266910 WATER MAIN CASING 24"	20800150 TRENCH BACKFILL			
47	68	5.50	(79)	5.50	5.5					40			9.9
47	(78)	7.50	(98)	7.50	7.5							20	0.0
47	(79)	6.00	(159)	6.00	6.0							80	23.6
47	147	5.50	(148)	5.50	5.5					41			9.9
47	(148)	5.50	149	5.50	5.5								1.2
47	(148)	5.50	(196)	5.50	5.5	5				57			13.8
47	(159)	5.50	(196)	5.50	5.5							30	7.4
47	(196)	5.50	(201)	5.50	5.5							5	1.2
47	(201)	5.50	205	5.50	5.5							5	1.2
47	(201)	5.50	201	5.50	5.5	16							3.8
47	205	5.50	(490)	5.50	5.5							284	70.3
47	(490)	5.50	490	5.50	5.5	13							3.1
48	(490)	5.50	(673)	5.50	5.5							183	45.3
48	(673)	5.50	(690)	5.50	5.5							17	4.2
48	(690)	5.50	688	5.50	5.5								0.0
48	(690)	5.50	735	5.50	5.5							45	11.1
48	735	5.50	(785)	5.50	5.5							50	12.4
48	(785)	5.50	785	5.50	5.5	12							2.9
48	(785)	5.50	(835)	5.50	5.5							50	12.4
48	(835)	5.50	829	5.50	5.5							28	6.9
48	(835)	5.50	(1037)	5.50	5.5							202	50.0
48	(1037)	5.50	(1074)	5.50	5.5							37	9.2
48	(1074)	5.50	(1079)	5.50	5.5							5	1.2
48	(1079)	5.50	1079	5.50	5.5	10							2.4
49	(1079)	5.50	1165	5.50	5.5							86	21.3
49	1165	5.50	(1219)	5.50	5.5							54	13.4
49	(1219)	5.50	1221	5.50	5.5					27			6.5
49	(1219)	5.50	1524	5.50	5.5							304	75.2
49	1524	5.50	(1545)	5.50	5.5							21	5.2
49	(1545)	5.50	(1584)	5.50	5.5							39	9.7
49	(1584)	5.50	1656	5.50	5.5							72	17.8
50	1656	5.50	(1860)	5.50	5.5							205	50.7
50	(1860)	5.50	1860	5.50	5.5	10							2.4
50	(1860)	5.50	(2146)	5.50	5.5							287	71.0
50	(2146)	5.50	2146	5.50	5.5	12							2.9
51	(2146)	5.50	(2292)	5.50	5.5							146	36.1
51	(2292)	5.50	(2291)	5.50	5.5							12	3.0
51	(2292)	5.50	2297	5.50	5.5							5	1.2
51	(2297)	5.50	(2302)	5.50	5.5							5	1.2
51	(2302)	5.50	2306	5.50	5.5							44	10.9
51	(2302)	5.50	(2613)	5.50	5.5							312	77.2
51	(2613)	5.50	2613	5.50	5.5	12							2.9
51	(2613)	5.50	(2860)	5.50	5.5							247	61.1
52	(2860)	5.50	2860	5.50	5.5	12							2.9
52	(2860)	5.50	2915	5.50	5.5		</						

CONTRACT No. 63353

STATION	20100110	20100210	44000500	44000100	44000600	40600982	44000200
	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TREE REMOVAL (OVER 15 UNITS DIAMETER)	COMBINATION CURB AND GUTTER REMOVAL	PAVEMENT REMOVAL	PAVEMENT REMOVAL	PAVEMENT REMOVAL	PAVEMENT REMOVAL
1+31 TO 5+50	13	0	875	1,445	0	110	198
5+50 TO 11+00	0	0	1,136	1,842	0	0	337
11+00 TO 16+50	0	16	1,167	2,337	3,500	23	116
16+50 TO 22+00	36	68	1,100	1,834	222	0	380
22+00 TO 28+00	78	100	1,211	2,318	2,736	58	335
28+00 TO 29+52.08	0	0	287	486	746	99	103
61+80 TO 62+64.82	0	0	186	281	0	24	0
<b>TOTAL</b>	<b>127</b>	<b>184</b>	<b>5,962</b>	<b>10,543</b>	<b>8,889</b>	<b>314</b>	<b>1,469</b>

STATION	42400200	42400400	31101100	60603800	60604400	31101400	XX007729
	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	PORTLAND CEMENT CONCRETE SIDEWALK 7 INCH	SUB-BASE GRANULAR MATERIAL, TYPE B	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	SUB-BASE GRANULAR MATERIAL, TYPE B 6"	DETECTABLE WARNINGS, SPECIAL
1+31 TO 5+50	0	0	0	66	995	291	0
5+50 TO 11+00	1,665	420	14	0	1,147	319	0
11+00 TO 16+50	4,886	435	34	0	1,136	316	84
16+50 TO 22+00	3,490	0	22	0	1,100	306	0
22+00 TO 28+00	3,058	465	23	80	1,232	360	20
28+00 TO 29+52.08	879	0	5	0	285	79	26
61+80 TO 62+64.82	0	0	0	226	0	50	0
<b>TOTAL</b>	<b>13,978</b>	<b>1,320</b>	<b>99</b>	<b>372</b>	<b>5,895</b>	<b>1,720</b>	<b>130</b>

STATION	A2000320	A2002920	A2006616	A2006716	A2008518	B2004520	B2006120	B2006220
	STATE STREET MAPLE	COMMON HACKBERRY	SHINGLE OAK	BUR OAK	TRIUMPH ELM	RED JEWEL CRAB APPLE	CHINA SNOW PEKING LILAC	JAPANESE TREE LILAC
1+31 TO 5+50	3	0	0	0	0	7	0	0
5+50 TO 11+00	0	1	1	1	1	4	3	3
11+00 TO 16+50	0	1	0	0	0	0	3	7
16+50 TO 22+00	5	1	1	2	6	0	0	0
22+00 TO 28+00	2	2	2	2	2	0	3	2
28+00 TO 29+52.08	0	0	0	0	0	0	0	0
61+80 TO 62+64.82	0	1	1	1	0	0	0	0
<b>TOTAL</b>	<b>10</b>	<b>6</b>	<b>5</b>	<b>6</b>	<b>9</b>	<b>11</b>	<b>9</b>	<b>12</b>

STATION	21001000	31101400	40600100	40600300	40701921	40603310	44201080	44201980
	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SUB-BASE GRANULAR MATERIAL, TYPE B 6"	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 12"	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", NSO	CLASS B PATCHES, TYPE IV	CLASS D PATCHES, TYPE IV
0+55 TO 5+50	1,843	1,603	721	4	1,603	12	30	29
5+50 TO 11+00	1,869	1,625	731	4	1,625	0	0	0
11+00 TO 16+50	2,811	2,444	1,100	6	2,444	3	0	0
16+50 TO 22+00	2,249	1,956	880	5	1,956	0	0	0
22+00 TO 28+00	2,773	2,411	1,085	6	2,411	6	0	0
28+00 TO 29+52.08	572	497	224	1	497	11	0	0
61+80 TO 62+64.82	293	255	115	1	255	3	0	0
<b>TOTAL</b>	<b>12,410</b>	<b>10,791</b>	<b>4,856</b>	<b>27</b>	<b>10,791</b>	<b>35</b>	<b>30</b>	<b>29</b>

STATION	42300300	44201313	44201317	44201701
	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	CLASS C PATCHES, TYPE I, 7 INCH	CLASS C PATCHES, TYPE II, 7 INCH	CLASS D PATCHES, TYPE I, 5 INCH
1+31 TO 5+50	155	0	0	0
5+50 TO 11+00	374	0	6	12
11+00 TO 16+50	96	3	0	9
16+50 TO 22+00	174	0	0	0
22+00 TO 28+00	249	3	0	6
28+00 TO 29+52.08	95	0	0	0
61+80 TO 62+64.82	0	0	0	14
<b>TOTAL</b>	<b>1,143</b>	<b>6</b>	<b>6</b>	<b>41</b>

STATION	20200100	20201200	20700420
	EARTH EXCAVATION	REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE
1+31 TO 5+50	1,229	1,013	1,045
5+50 TO 11+00	1,581	1,013	1,344
11+00 TO 16+50	1,223	0	1,039
16+50 TO 22+00	397	0	338
22+00 TO 28+00	1,315	360	1,118
28+00 TO 29+52.08	245	0	208
61+80 TO 62+64.82	202	0	171
<b>TOTAL</b>	<b>6,192</b>	<b>2,386</b>	<b>5,263</b>

**EARTH WORK NOTES**  
 SHRINKAGE FACTOR: EARTH EXCAVATION: 15%  
 COLUMN 1 - STATION LOCATION FROM PLANS.  
 COLUMN 2 - CUT QUANTITIES FROM CROSS SECTIONS, THIS DOES INCLUDE TOPSOIL EXCAVATION.  
 COLUMN 3 - UNDERCUT SUBGRADE MATERIAL THAT IS DETERMINED TO BE UNSTABLE OR UNSUITABLE BY THE ENGINEER.  
 COLUMN 4 - EARTH EXCAVATION QUANTITIES THAT ARE TO BE USED AS FILL MATERIAL IN EMBANKMENT. EARTH EXCAVATION SHRINKAGE WAS DETERMINED TO BE 15%.  
 COLUMN 5 - QUANTITIES FROM CROSS SECTIONS.  
 COLUMN 6 - OFF-SITE MATERIAL NEED OR MATERIAL TO WASTE.  
 COLUMN 7 - PGE QUANTITIES TO BE USED IN UNDERCUTS AT THE DISCRETION OF THE ENGINEER.

**UNDERCUT ESTIMATE**  
 BLUFF AVENUE  
 STA 6+00 TO STA 16+00, LENGTH = 1,000.0', DEPTH = 0.5', WIDTH = 32.0'  
 MAPLE AVENUE  
 STA 60+20 TO 60+80, LENGTH = 60.0', DEPTH = 0.5', WIDTH = 27.0'  
 STA 61+12 TO 62+65, LENGTH = 153.0', DEPTH = 0.5', WIDTH = 27.0'

\* = DENOTES SPECIALTY ITEM

SHEET #	ADDRESS	STATION	56200300 1" SERVICE	56200700 2" SERVICE	56102900 4" SERVICE	56103000 6" SERVICE	TRENCH BACKFILL (CY)
48	417 S BLUFF	6+73				43	13
48	ILLINOIS MASONIC	6+90			24		7
48	405 S BLUFF	7+93		43			13
48	MEADOWBROOK MANOR	8+72	24				7
48	355 S BLUFF	8+74		42			13
48	MEADOWBROOK MANOR	10+37				24	7
48	339 S BLUFF	10+74				48	14
49	327 S BLUFF	11+91		43			13
49	316 S BLUFF	12+93	23				7
49	319 S BLUFF	13+00		43			13
49	315 S BLUFF	13+16		43			13
49	314 S BLUFF	13+35	23				7
49	312 S BLUFF	13+62	23				7
49	309 S BLUFF	14+01		43			13
49	305 S BLUFF	14+16		43			13
49	301 S BLUFF	15+05		44			13
50	228 S BLUFF	18+33	23				7
50	224 S BLUFF	19+00	25				8
50	220 S BLUFF	19+53	25				8
50	214 S BLUFF	19+89	25				8
51	135 S BLUFF	24+22	41				12
51	132 S BLUFF	24+47	25				8
51	133 S BLUFF	24+81	41				12
51	127 S BLUFF	25+23	41				12
51	136 S BLUFF	25+42	25				8
51	123 S BLUFF	25+74	41				12
51	119 S BLUFF	26+23	41				12
51	115 S BLUFF	26+73	41				12
51	113 S BLUFF	27+08	41				12
<b>TOTAL</b>			<b>528</b>	<b>344</b>	<b>24</b>	<b>115</b>	<b>303</b>

SHEET #	ADDRESS	STATION	XX003803 6" SAN SERVICE	XX006217 8" SAN SERVICE	TRENCH BACKFILL (CY)
40	ILLINOIS MASONIC	4+96	52		16
41	417 S BLUFF	6+13	17		5
41	ILLINOIS MASONIC	6+70	49		15
41	405 S BLUFF	7+87	17		5
41	355 S BLUFF	8+79	17		5
41	339 S BLUFF	10+26	23		7
41	ILLINOIS MASONIC	10+30	43		13
41	339 S BLUFF	10+30	23		7
42	327 S BLUFF	11+89	23		7
42	318 S BLUFF	12+48	44		13
42	319 S BLUFF	12+94	23		7
42	315 S BLUFF	13+15	23		7
42	316 S BLUFF	13+16	44		13
42	314 S BLUFF	13+30	44		13
42	312 S BLUFF	13+58	44		13
42	309 S BLUFF	14+05	23		7
42	305 S BLUFF	14+16	23		7
42	301 S BLUFF	15+04	25		8
43	VILLAGE BLUFFS	17+30		29	9
43	228 S BLUFF	18+19	51		15
43	224 S BLUFF	18+26	51		15
43	VILLAGE BLUFFS	19+39		29	9
43	220 S BLUFF	19+45	44		13
43	214 S BLUFF	19+73	51		15
44	132 S BLUFF	24+57	44		13
44	136 S BLUFF	24+73	46		14
<b>TOTAL</b>			<b>844</b>	<b>58</b>	<b>271</b>

NAME	DATE
PER IDOT	01-04-10
PER IDOT	01-14-10

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BLUFF AVENUE IMPROVEMENTS**  
**STAGE 3**

**SCHEDULE OF QUANTITIES**

SCALE: DRAWN BY H&A  
 DATE 11/30/2009 CHECKED BY JRH

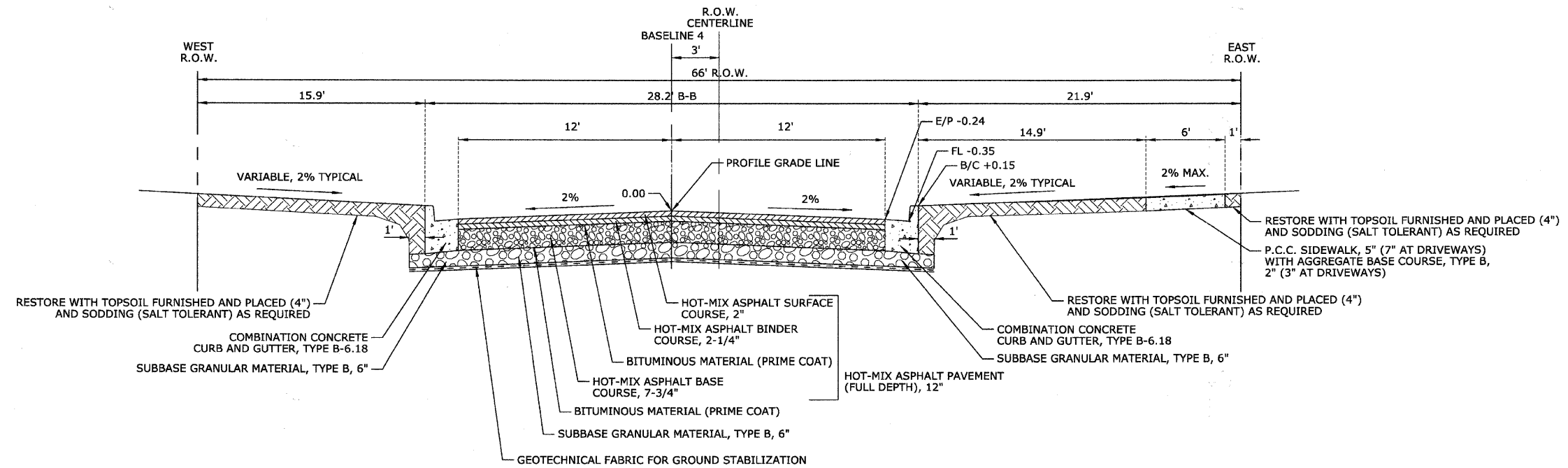
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 ADJUSTED CHECKED  
 P.T. OF FILE NO.  
 P.L. FILE NO.

PROFILE SURVEYED BY DATE  
 NOTE BOOK NO.  
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 B.M. NOTED  
 FINISHES, METERS OK'D

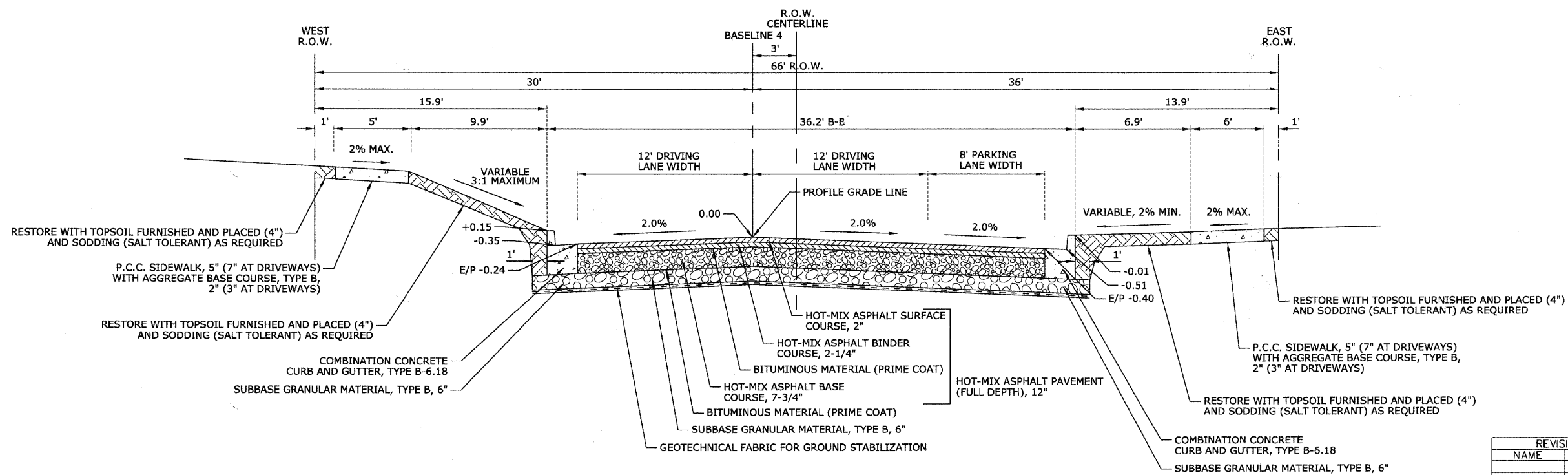




F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
1004	08-00079-03-FP	COOK	94	10
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



**PROPOSED TYPICAL SECTION  
STA 6+11.00 - STA 9+25.47, BLUFF AVENUE**



**PROPOSED TYPICAL SECTION  
STA 9+25.47 - STA 29+52.08, BLUFF AVENUE**

DATE	BY
REVISIONS	
PLANNING CHECKED	
ALIGNMENT CHECKED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	
DATE FILED	
FILE NAME	

DATE	BY
REVISIONS	
PLANNING CHECKED	
ALIGNMENT CHECKED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	
DATE FILED	
FILE NAME	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BLUFF AVENUE IMPROVEMENTS  
STAGE 3**

**TYPICAL SECTIONS**

SCALE: NTS  
DATE 11/30/2009

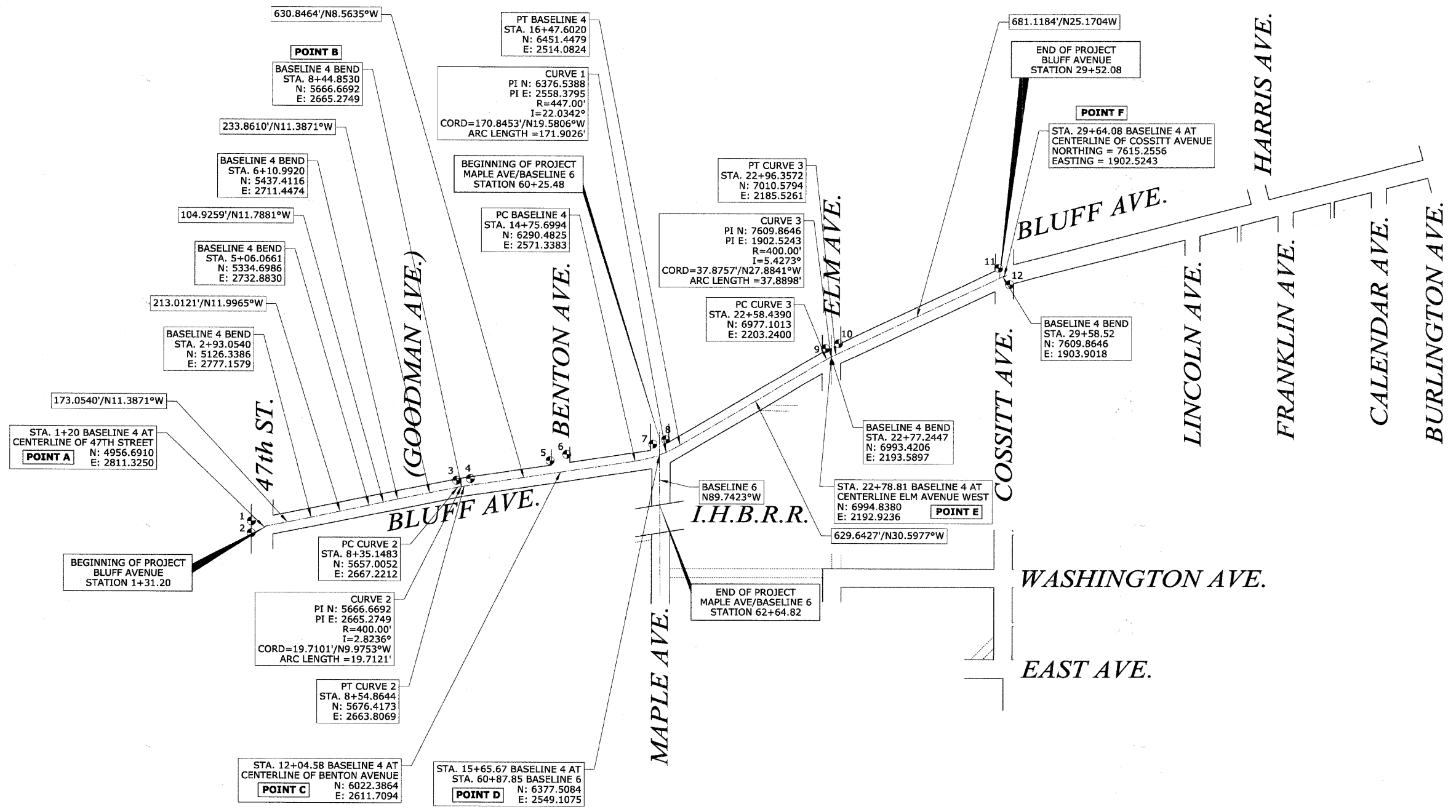
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CHECKED BY JRH



CONTRACT No. 63353

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 PLAN NO.: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 DATE: \_\_\_\_\_

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 PROFILE NO.: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 DATE: \_\_\_\_\_



# - DENOTES LOCATION AND NUMBER OF CONTROL POINT

**LEGEND**  
 SURVEY MARKER

**CONTROL POINTS**

LABEL	NORTHING	EASTING	ELEVATION	LOCATION
1	4,912.3250	2,791.1710	633.60	Set IP, Located ~44.4' South and ~20.2' West of <b>POINT A</b>
2	4,911.4300	2,834.0300	632.52	Set IP, Located ~45.3' South and ~22.7' East of <b>POINT A</b>
3	5,648.7060	2,642.8630	630.69	Set IP, Located ~18.0' South and ~22.4' West of <b>POINT B</b>
4	5,698.3190	2,636.7710	630.85	Set IP, Located ~31.6' North and ~28.5' West of <b>POINT B</b>
5	5,984.6880	2,570.2080	634.14	Set IP, Located ~37.7' South and ~41.5' West of <b>POINT C</b>
6	6,044.5520	2,547.7900	635.31	Set IP, Located ~22.2' North and ~63.9' West of <b>POINT C</b>
7	6,353.7710	2,510.2540	632.46	Set IP, Located ~23.7' South and ~38.9' West of <b>POINT D</b>
8	6,399.7290	2,493.5990	631.92	Set IP, Located ~22.2' North and ~55.5' West of <b>POINT D</b>
9	6,973.3850	2,163.4410	632.60	Set IP, Located ~21.5' South and ~29.3' West of <b>POINT E</b>
10	7,020.3450	2,145.5900	633.09	Set IP, Located ~25.5' North and ~47.2' West of <b>POINT E</b>
11	7,595.3440	1,873.8940	632.23	Set IP, Located ~20.4' South and ~29.4' West of <b>POINT F</b>
12	7,634.9600	1,932.4050	629.62	Set IP, Located ~19.2' North and ~29.2' East of <b>POINT F</b>

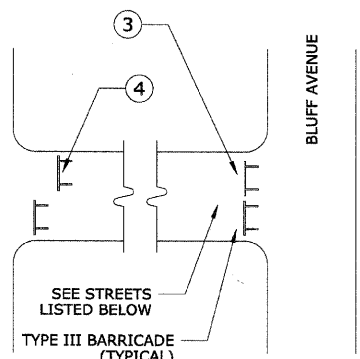
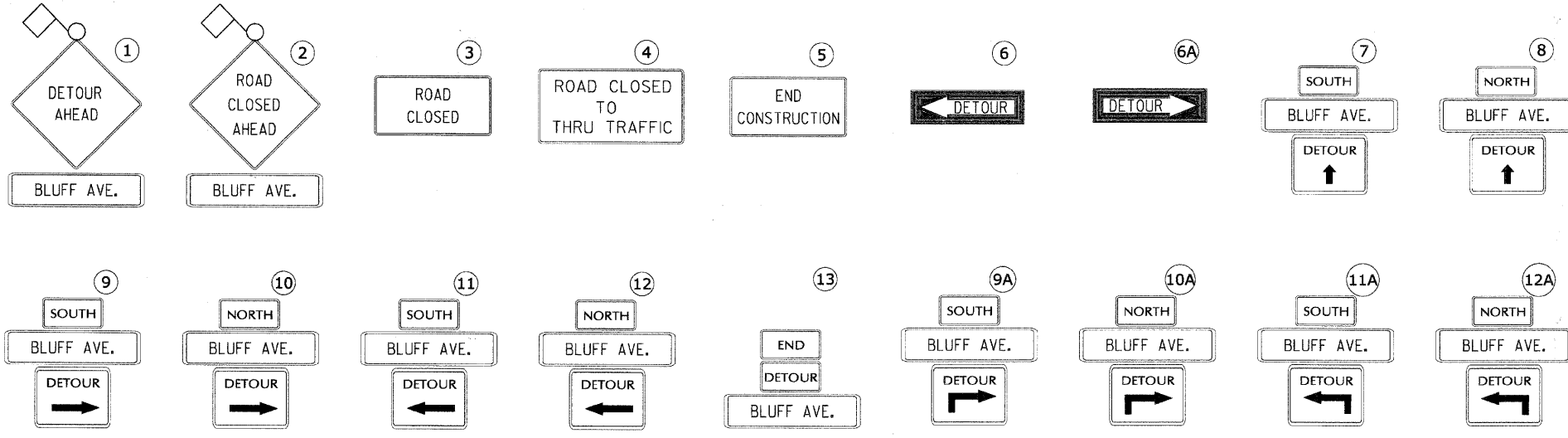
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BLUFF AVENUE IMPROVEMENTS  
 STAGE 3**  
**ALIGNMENT, TIES AND  
 ELEVATION CONTROL**  
 SCALE: NTS  
 DATE 11/30/2009  
 DRAWN BY H&A  
 CHECKED BY JRH



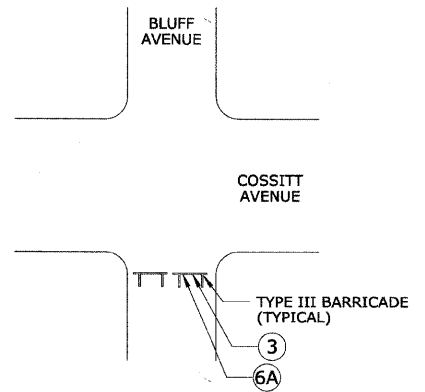
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 PLAN  
 DESIGNED: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 DATE: \_\_\_\_\_

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
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 CHECKED: \_\_\_\_\_  
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 DATE: \_\_\_\_\_



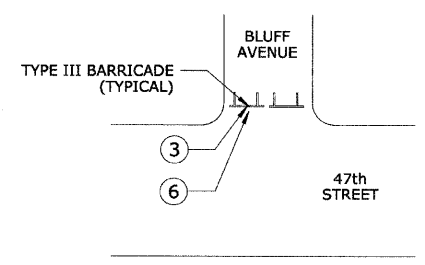
**TYPICAL INTERSECTION - TYPE 1**

1. ELM AVENUE
2. MAPLE AVENUE
3. BENTON AVENUE
4. GOODMAN AVENUE

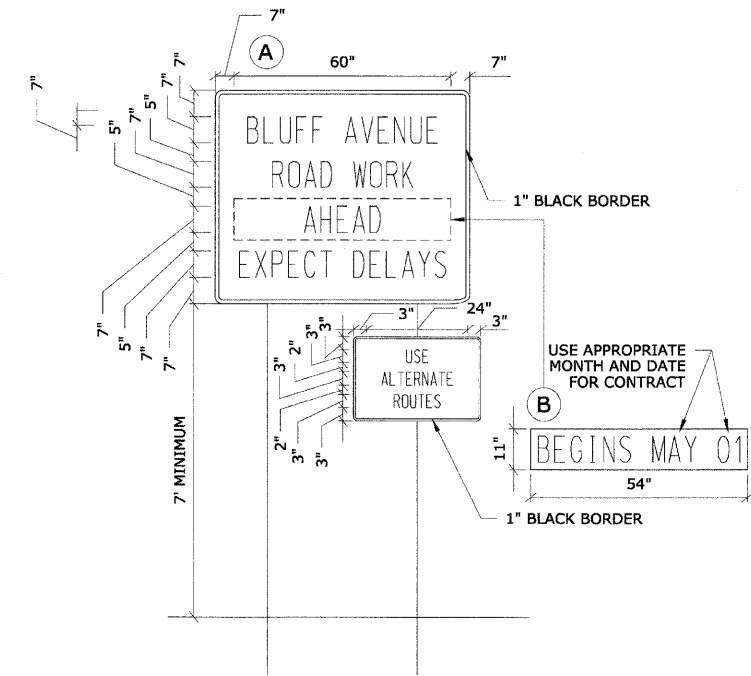


**INTERSECTION - TYPE 2**

CROSS TRAFFIC FLOW SHALL BE GENERALLY MAINTAINED ON COSSITT AVENUE THROUGHOUT CONSTRUCTION

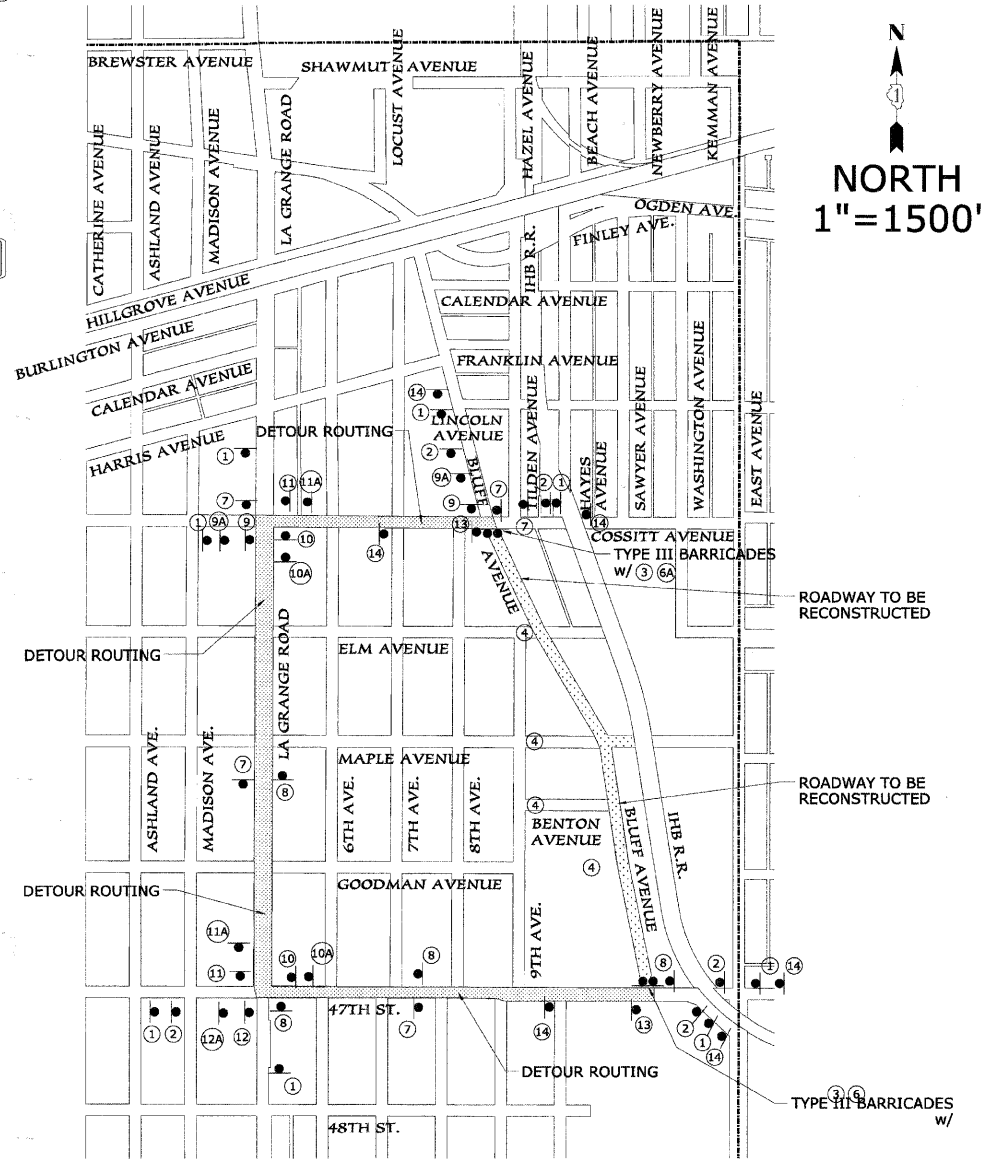


**INTERSECTION - TYPE 3**



**14 TEMPORARY INFORMATIONAL SIGNAGE 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 A WITH INSTALLED PANEL 2 ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL B SOON AFTER THE START OF CONSTRUCTION.
5. ITEMS ON THIS PAGE SHALL BE PAID FOR UNDER ITEM 70101900 ENTITLED "TRAFFIC CONTROL AND PROTECTION DETOUR 1".



**VILLAGE OF LA GRANGE**

**GENERAL NOTES FOR TRAFFIC CONTROL**

ALL THE TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE TRAFFIC CONTROL PLANS OR THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS," AND SHALL BE IN PLACE BEFORE CONSTRUCTION IS STARTED. STOP SIGNS SHALL BE PLACED TO CONTROL SIDE STREET OR ENTRANCE TRAFFIC.

THE TRAFFIC CONTROL PLANS SHALL SERVE AS A GUIDE FOR SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT. HOWEVER, THE CONTRACTOR MAY IMPROVE OR MODIFY THE TRAFFIC CONTROL PLANS FOR HIS CONSTRUCTION NEEDS BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CONTRACTOR-PROPOSED TRAFFIC CONTROL PLANS SHALL BE SUBMITTED FOR THE WRITTEN APPROVAL OF THE ENGINEER.

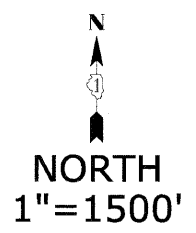
THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND TRAFFIC CONTROL DEVICES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

REMOVE EXISTING PAVEMENT MARKING IF IN CONFLICT WITH THE TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL AND PROTECTION PLANS.

ALL TYPE III BARRICADES SHALL BE REFLECTORIZED ON BOTH SIDES AND SHALL BE EQUIPPED WITH TWO (2) HIGH INTENSITY FLASHING LIGHTS.

THE CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICULAR ACCESS DURING ALL CONSTRUCTION ACTIVITIES.

THE MAINTENANCE OF TRAFFIC REQUIREMENTS CALLED FOR ON THIS PAGE SHALL BE PAID FOR UNDER LINE ITEM 70101900 ENTITLED TRAFFIC CONTROL AND PROTECTION DETOUR 1.



**HEUER AND ASSOCIATES**

Consulting Engineers

2315 Enterprise Drive - Suite 102 Westchester, IL 60154-5811 708-492-1000

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
1004	08-00079-03-FP	COOK	94	14
STA.	TO STA.			
FED. ROAD DIST. NO. 1   ILLINOIS		FED. AID PROJECT		
BLUFF AVE. IMPROVEMENTS - STAGE 3		DATE: 11/30/09	CONSTRUCTION PHASING & LOCAL TRAFFIC PATTERN	

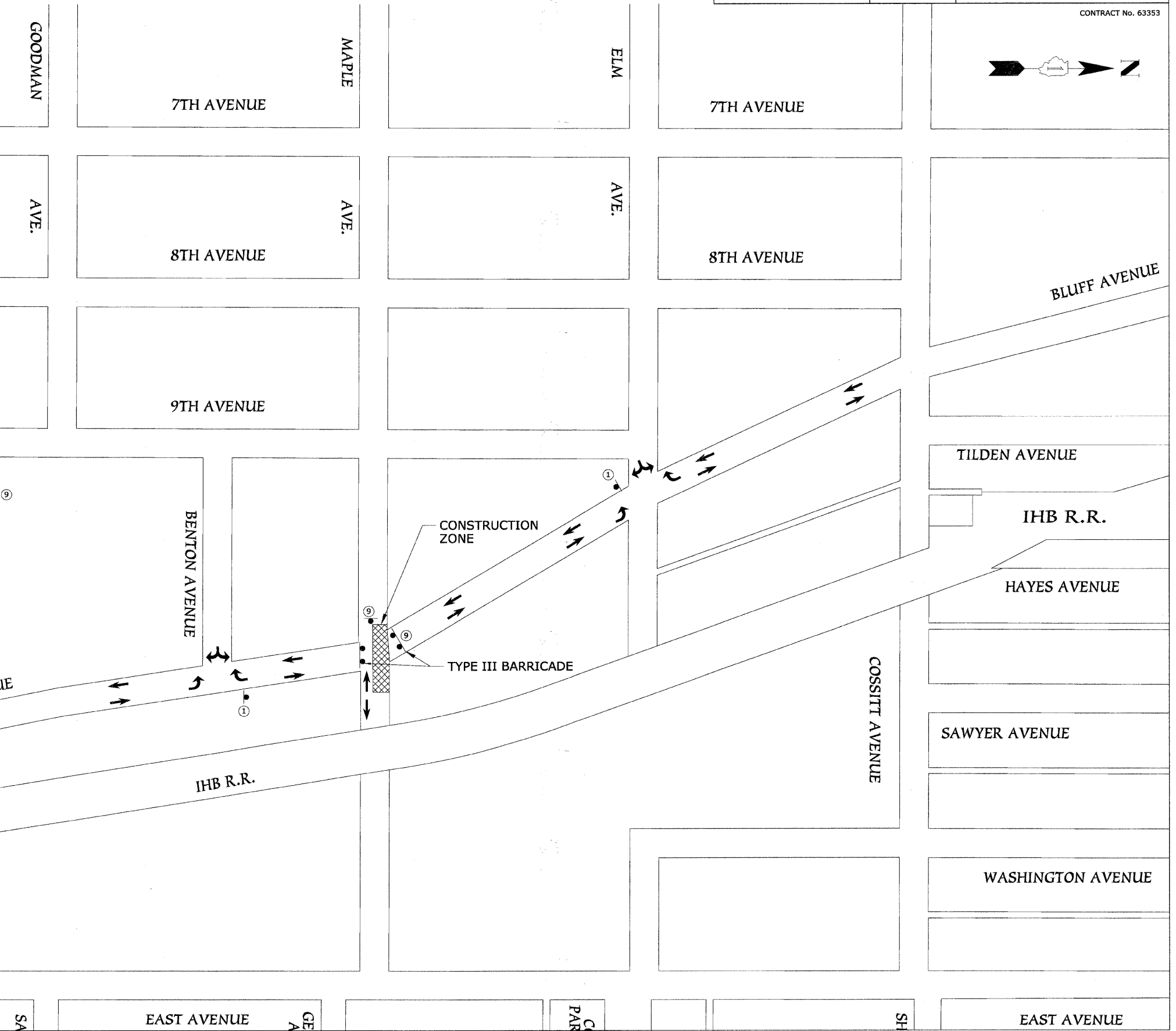
CONTRACT No. 63353



- GENERAL PHASING NOTES FOR ALL PHASES OF CONSTRUCTION**
- THE DETOUR AND ROAD CLOSURES AS DETAILED ON SHEET 13 MAINTENANCE OF TRAFFIC WILL BE IN USE THROUGH THE ENTIRE PROJECT AND ALL PHASES OF CONSTRUCTION. THE PURPOSE OF THE CONSTRUCTION PHASING AND THE TRAFFIC PATTERNS ON BLUFF AVENUE FOR THE DIFFERENT PHASES IS INTENDED FOR LOCAL ACCESS FOR THE LOCAL RESIDENTS AND THAT EXIST ON BLUFF AVENUE ONLY.
  - IT IS UNDERSTOOD THAT THERE WILL BE TEMPORARY PERIODS OF TIME RESIDENTS AND BUSINESSES WILL NOT HAVE ACCESS TO THEIR DRIVEWAYS AND ENTRANCES OFF OF BLUFF AVENUE. THE CONTRACTOR WILL MAKE EFFORTS TO MINIMIZE THESE PERIODS OF TIME.
  - THE CONTRACTOR WILL ALSO MAKE EFFORTS TO THE LOCAL RESIDENTS AND BUSINESSES AND TAKE THEIR NEEDS INTO CONSIDERATION WHEN SHUTTING DOWN ACCESS TO THEIR PROPERTIES.
  - THE CONTRACTOR WILL GIVE THE LOCAL RESIDENTS AND BUSINESSES 48 HOURS WRITTEN NOTICE WHEN THEY WILL LOSE AND REGAIN ACCESS TO THEIR PROPERTIES FROM BLUFF AND WHEN THERE IS GOING TO BE A TRAFFIC PATTERN CHANGE.
  - OVER NIGHT PARKING WILL BE ALLOWED FOR THE LOCAL BUSINESSES AND RESIDENTS ON 9TH AVENUE, 8TH AVENUE, MAPLE AND ELM AVENUE.
  - EMERGENCY ACCESS SHALL BE MAINTAINED AT ALL TIMES.

- PHASE I CONSTRUCTION - MAPLE AVENUE STORM AND SANITARY SEWER CONSTRUCTION**
- CONSTRUCTION OF THE 60" MAPLE AVENUE RELIEF SEWER. CONSTRUCT TO THE WEST TO THE LOCATION INDICATED ON THE PLANS AND STUB OUT THE STORM SEWERS 30 FEET NORTH AND SOUTH OF THE MAPLE AVENUE INTERSECTION SO FULL ACCESS CAN BE RESTORED TO MAPLE AVENUE AFTER PHASE I CONSTRUCTION.
  - CONSTRUCTION OF THE 12" WATER MAIN ALONG MAPLE AND 30 FEET NORTH AND SOUTH OF THE MAPLE AVENUE INTERSECTION.
  - CONSTRUCTION OF 12" PVC COMBINATION SEWER ALONG MAPLE AND CONNECT THE EXISTING 18" COMBINATION SEWER ON MAPLE AVENUE WEST OF BLUFF AVENUE. CONSTRUCT THE SANITARY 30 FEET NORTH AND SOUTH OF MAPLE AVENUE INTERSECTION.

- PHASE I LOCAL TRAFFIC PATTERN**
- FULL ACCESS WILL BE MAINTAINED FOR ALL OF BLUFF AVENUE.
  - MAPLE AVENUE WILL BE CLOSED AND TRAFFIC WILL NOT BE ABLE TO CROSS MAPLE.
  - ONE 12 FOOT LANE ON MAPLE WILL BE MAINTAINED TO ALLOW ONE WAY ACCESS TO THE APARTMENT BUILDING OFF OF MAPLE AVENUE EAST OF BLUFF AVENUE.
  - SEE SIGNAGE AND TRAFFIC ROUTING PLAN FOR LOCAL ACCESS FOR PHASE I THIS SHEET.



	⑥		⑦		⑧		⑨
R3-1, 30"x30"		R5-1, 30"x30"		R5-1A, 30"x18"		R11-2, 48"x30"	
	⑤						
R3-2, 30"x30"							
	④						
R6-1R, 36"x12"							
	③						
R6-1L, 36"x12"							
	②						
R6-2S, 18"x24"							
	①						
W14-2, 30"x30"							

DATE	BY	REVISIONS
		1. CORRECTED
		2. ALIGNED
		3. CHECKED
		4. APPROVED
		5. DATE
		6. NAME
		7. NO.

DATE	BY	REVISIONS
		1. CORRECTED
		2. ALIGNED
		3. CHECKED
		4. APPROVED
		5. DATE
		6. NAME
		7. NO.



**GENERAL PHASING NOTES FOR ALL PHASES OF CONSTRUCTION**

1. THE DETOUR AND ROAD CLOSURES AS DETAILED ON SHEET 13 MAINTENANCE OF TRAFFIC WILL BE IN USE THROUGH THE ENTIRE PROJECT AND ALL PHASES OF CONSTRUCTION. THE PURPOSE OF THE CONSTRUCTION PHASING AND THE TRAFFIC PATTERNS ON BLUFF AVENUE FOR THE DIFFERENT PHASES IS INTENDED FOR LOCAL ACCESS FOR THE LOCAL RESIDENTS AND THAT EXIST ON BLUFF AVENUE ONLY.
2. IT IS UNDERSTOOD THAT THERE WILL BE TEMPORARY PERIODS OF TIME RESIDENTS AND BUSINESSES WILL NOT HAVE ACCESS TO THEIR DRIVEWAYS AND ENTRANCES OFF OF BLUFF AVENUE. THE CONTRACTOR WILL MAKE EFFORTS TO MINIMIZE THESE PERIODS OF TIME.
3. THE CONTRACTOR WILL ALSO MAKE EFFORTS TO THE LOCAL RESIDENTS AND BUSINESSES AND TAKE THEIR NEEDS INTO CONSIDERATION WHEN SHUTTING DOWN ACCESS TO THEIR PROPERTIES.
4. THE CONTRACTOR WILL GIVE THE LOCAL RESIDENTS AND BUSINESSES 48 HOURS WRITTEN NOTICE WHEN THEY WILL LOSE AND REGAIN ACCESS TO THEIR PROPERTIES FROM BLUFF AND WHEN THERE IS GOING TO BE A TRAFFIC PATTERN CHANGE.
5. OVER NIGHT PARKING WILL BE ALLOWED FOR THE LOCAL BUSINESSES AND RESIDENTS ON 9TH AVENUE, 8TH AVENUE, MAPLE AND ELM AVENUE.
6. EMERGENCY ACCESS SHALL BE MAINTAINED AT ALL TIMES.

**PHASE III CONSTRUCTION - WATER MAIN CONSTRUCTION**

1. CONNECT TO THE EXISTING 12" WATER MAIN AT COSSITT BY MEANS OF A SHUT DOWN CONNECTION. CONSTRUCT THE 12" TO VALVE VAULT #68 SOUTH OF 47th. INSTALL ALL FIRE HYDRANTS, VALVES AND CAP ALL TEES FOR PROPOSED CONNECTIONS TO THE VARIOUS EXISTING.
2. INSTALL THE STORM INLETS AND COMPLETE THE STORM SEWER CONSTRUCTION ON THE WEST SIDE OF BLUFF AVENUE.
3. DISINFECT AND PRESSURE TEST THE MAINLINE WATER MAIN. ONCE THE WATER MAIN PASSES TESTING, SERVICES CAN BE TO THE NEW WATER MAIN. ONCE ALL SERVICES ARE, THE FINAL SHUT DOWN CONNECTIONS CAN BE MADE AT 47th, GOODMAN, BENTON, MAPLE AND ELM.

**PHASE III LOCAL TRAFFIC PATTERN**

1. THE TRAFFIC PATTERN THROUGH THE CONSTRUCTION ZONE FOR LOCAL TRAFFIC WILL BE ONE WAY SOUTH BOUND ON THE EASTERN HALF OF THE ROADWAY BETWEEN COSSITT AND 47th. THE WEST HALF OF THE ROADWAY WILL BE CLOSED DURING THE WATER MAIN CONSTRUCTION. MAPLE WILL BE OPEN IN BOTH DIRECTIONS.
2. TEMPORARY SHUT DOWNS OF THE ROADWAY WILL BE REQUIRED WHEN RECONNECTING WATER SERVICES AND WHILE MAKING THE FINAL WATER MAIN CONNECTIONS. THE TIME THE ROADWAY IS CLOSED SHALL BE FOR THE SHORTEST TIME POSSIBLE.
3. DURING THE OPEN CUT FOR THE WATER MAIN UNDER 47th, TRAFFIC WILL NOT HAVE ACCESS TO 47th FROM BLUFF. BLUFF WILL DEAD END AT STATION 2+30. NO MORE THAN TWO LANES OF TRAFFIC ON 47th WILL BE ALLOWED TO BE CLOSED AT A TIME AND AT LEAST ONE LANE IN EACH DIRECTION ON 47th WILL HAVE TO BE MAINTAINED IN ACCORDANCE WITH STANDARD 701606-06, URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN. BOTH LANES ON BLUFF BETWEEN STATION 2+30 AND BENTON SHALL REMAIN OPEN FOR 2WAY TRAFFIC DURING THE 47th STREET OPEN CUT.

REVISIONS	
NAME	DATE
PER VLG	01-12-10

**HEUER AND ASSOCIATES**

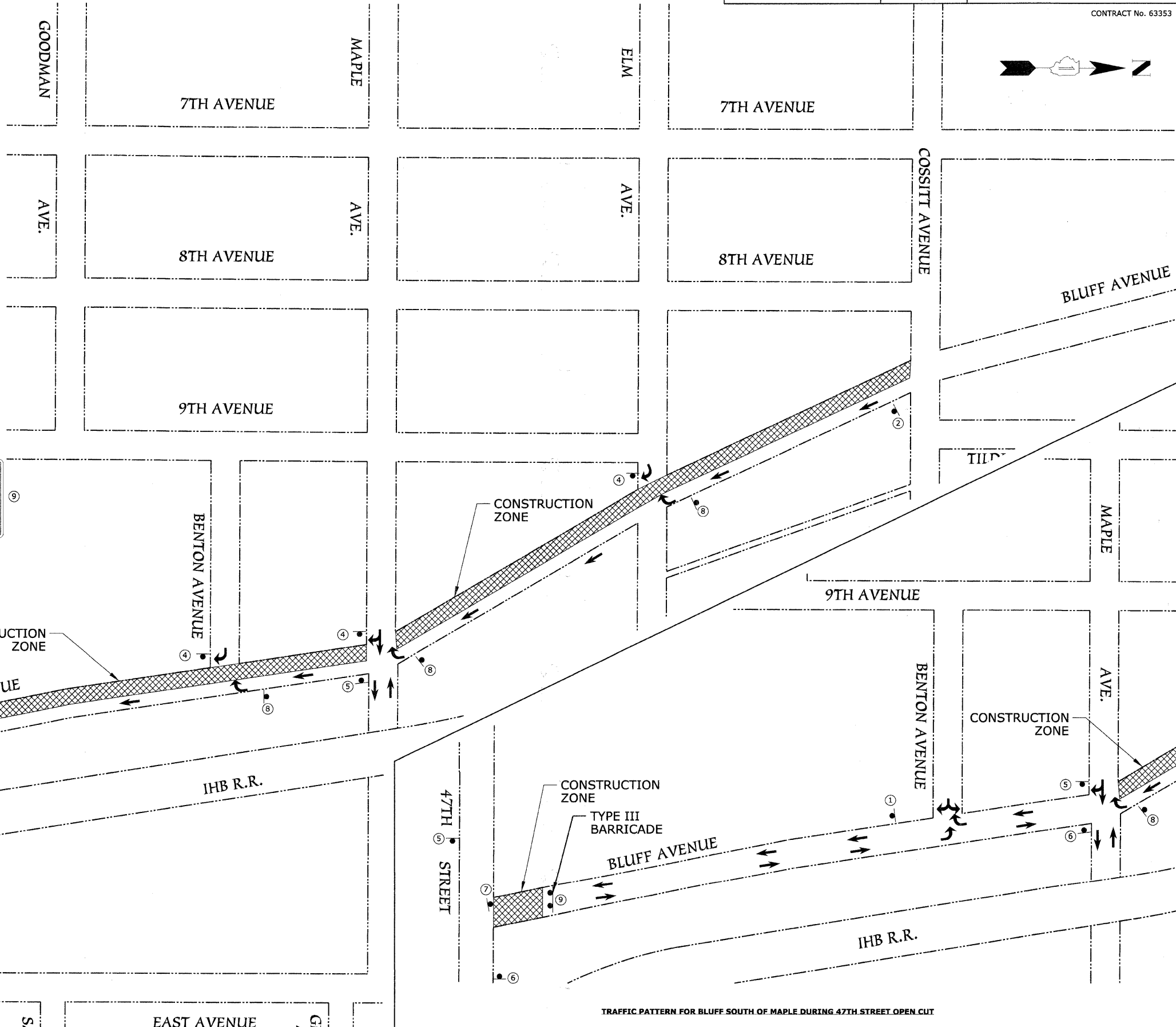
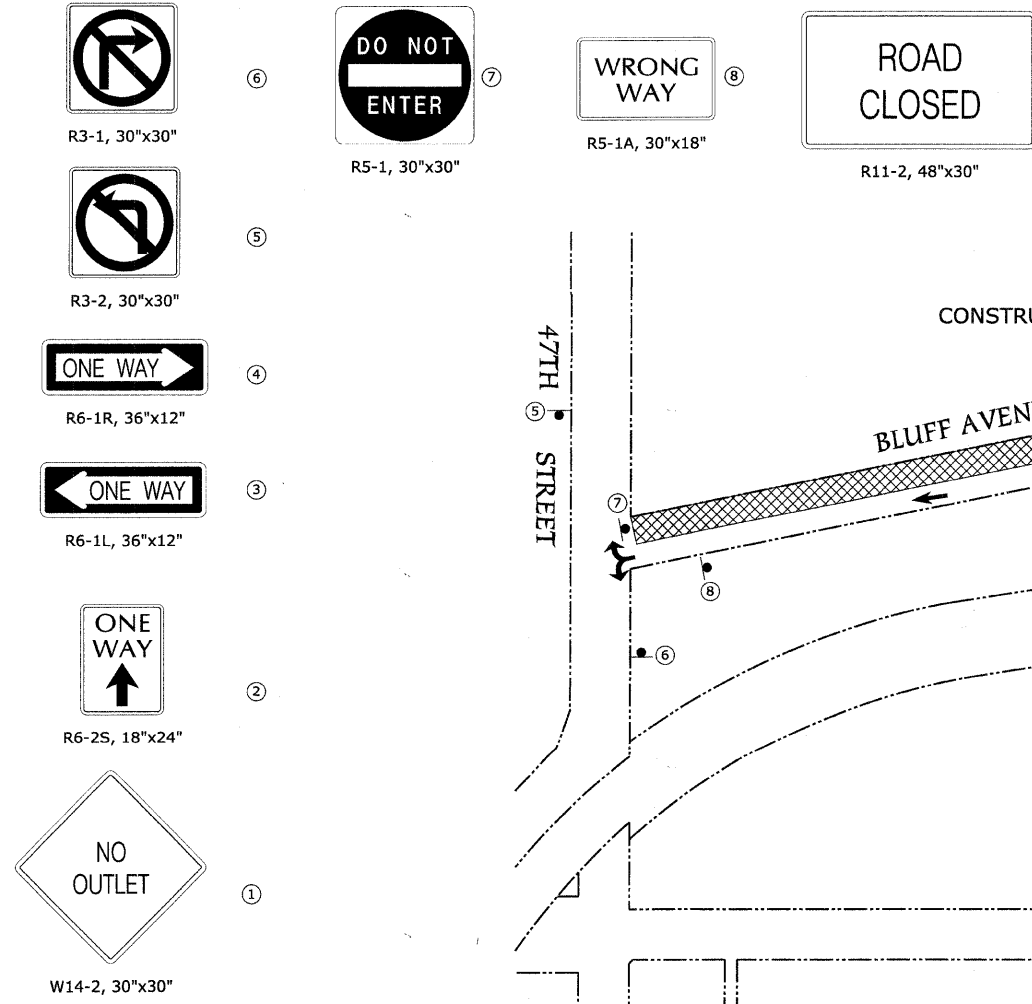
Consulting Engineers  
 2315 Enterprise Drive - Suite 102 Westchester, IL 60154-5811 708-492-1000  
 BLUFF AVE. IMPROVEMENTS - STAGE 3 DATE: 11/30/09

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
1004	08-00079-03-FP	COOK	94	16
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS		
		FED. AID PROJECT		
CONSTRUCTION PHASING & LOCAL TRAFFIC PATTERN		CONTRACT No. 63353		



PLAN	DATE	BY
SURVEYED		
NOTED		
CHECKED		
DATE		
NO.		

PROFILE	DATE	BY
SURVEYED		
NOTED		
CHECKED		
DATE		
NO.		



TRAFFIC PATTERN FOR BLUFF SOUTH OF MAPLE DURING 47TH STREET OPEN CUT



**HEUER AND ASSOCIATES**

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BLUFF AVE. IMPROVEMENTS - STAGE 3 DATE: 11/30/09

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
1004	08-00079-03-FP	COOK	94	17
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONSTRUCTION PHASING & LOCAL TRAFFIC PATTERN				

CONTRACT No. 63353



**GENERAL PHASING NOTES FOR ALL PHASES OF CONSTRUCTION**

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5. OVER NIGHT PARKING WILL BE ALLOWED FOR THE LOCAL BUSINESSES AND RESIDENTS ON 9TH AVENUE, 8TH AVENUE, MAPLE AND ELM AVENUE.
6. EMERGENCY ACCESS SHALL BE MAINTAINED AT ALL TIMES.

**PHASE IV CONSTRUCTION - ROADWAY RECONSTRUCTION**

1. PHASE IV WILL BE BROKEN OUT INTO 4 SEPERATE STAGES BY COMPLETING ONE BLOCK AT A TIME. DURING CONSTRUCTION THE RESIDENCE ON THE BLOCK WILL NOT HAVE ACCESS TO THEIR DRIVEWAYS OFF OF BLUFF AND WILL NOT BE ALLOWED TO PARK ON BLUFF WITHIN THE CONSTRUCTION ZONE.

**PHASE IV-A** ROADWAY RECONSTRUCTION WILL BE FROM COSSITT TO ELM AVENUE NOT INCLUDING THE INTERSECTION OF ELM.  
**PHASE IV-B** ROADWAY RECONSTRUCTION WILL BE FROM THE INTERSECTION OF ELM, INCLUDING THE ELM INTERSECTION UP TO MAPLE AVENUE NOT INCLUDING THE MAPLE AVENUE INTERSECTION.  
**PHASE IV-C** ROADWAY RECONSTRUCTION WILL INCLUDE MAPLE AVENUE INCLUDING THE MAPLE AVENUE INTERSECTION TO STATION 7+00.  
**PHASE IV-D** ROADWAY RECONSTRUCTION WILL BE FROM STATION 7+00 TO 47th.

2. THE ROADWAY IS TO BE REOPENED TO THE LOCAL RESIDENCE AT THE COMPLETION OF EACH STAGE OF PHASE IV CONSTRUCTION. THE WORK TO BE COMPLETED IN EACH STAGE OF CONSTRUCTION BEFORE CLOSING DOWN THE NEXT BLOCK FOR CONSTRUCTION IS LISTED BELOW IN THE ORDER IT IS TO BE COMPLETED:

1. THE REMOVALS OF ALL PAVEMENTS, CURB AND GUTTERS, SIDEWALKS, DRIVEWAYS AND FINAL REMOVAL AND ABANDONMENT OF THE COMBINED SEWER STRUCTURES AND WATER MAIN STRUCTURES.
2. THE REGRADING OF THE SUBGRADE TO THE PROPOSED GRADES.
3. INSTALLATION OF THE GEOGRID.
4. INSTALLATION OF THE 6" GRANULAR SUB-BASE.
5. INSTALLATION OF THE CURB AND GUTTERS
6. INSTALLATION OF THE 7- $\frac{3}{4}$ " HMA BASE COURSE.
7. INSTALLATION OF THE 2- $\frac{1}{4}$ " HMA BINDER COURSE.
8. INSTALLATION OF THE SIDEWALKS AND DRIVEWAYS AND SIDEWALKS.
9. INSTALLATION OF TEMPORARY STONE ACCESS RAMPS IN LOCATIONS DEEMED NECESSARY BY THE ENGINEER.

**PHASE IV LOCAL TRAFFIC PATTERN**

1. THE ROADWAY RECONSTRUCTION WILL BE CONSTRUCTED ONE BLOCK AT A TIME. DURING CONSTRUCTION THE RESIDENCE ON THE BLOCK WILL NOT HAVE ACCESS TO THEIR DRIVEWAYS OFF OF BLUFF AND WILL NOT BE ALLOWED TO PARK ON BLUFF WITHIN THE CONSTRUCTION ZONE. THE BLOCKS THAT ARE NOT UNDER CONSTRUCTION WILL HAVE FULL ACCESS TO LOCAL TRAFFIC. AFTER ACCEPTANCE OF THE IMPROVEMENTS FOR EACH BLOCK AFTER CONSTRUCTION, FULL LOCAL ACCESS WILL BE RESTORED TO THE BLOCK.

**PHASE V CONSTRUCTION - 2" HMA SURFACE COURSE PAVING**

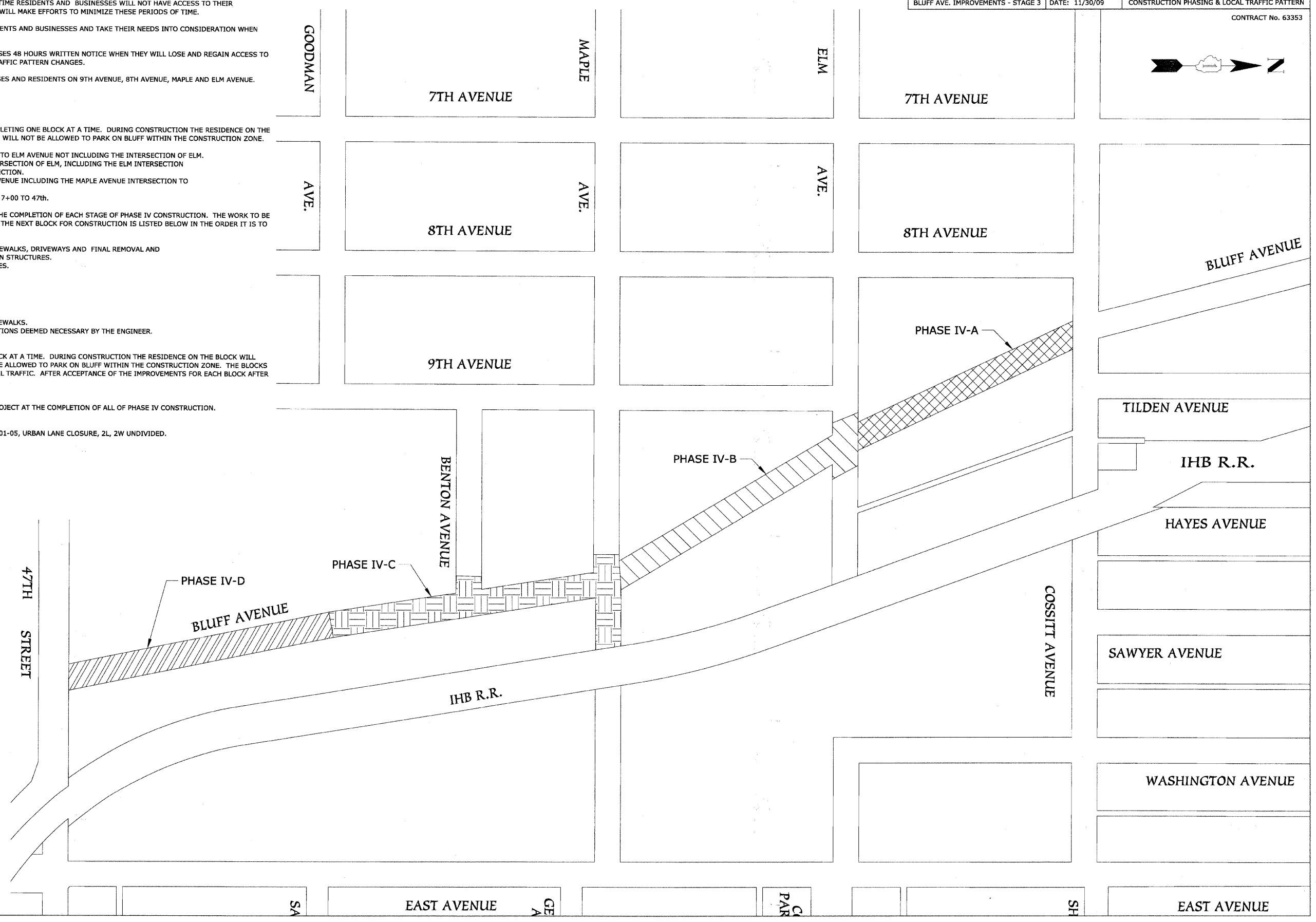
1. THE 2" HMA SURFACE COURSE WILL BE PLACED FOR THE ENTIRE PROJECT AT THE COMPLETION OF ALL OF PHASE IV CONSTRUCTION.

**PHASE V LOCAL TRAFFIC PATTERN**

1. TRAFFIC CONTROL WILL BE IN ACCORDANCE WITH STANDARD 701501-05, URBAN LANE CLOSURE, 2L, 2W UNDIVIDED.

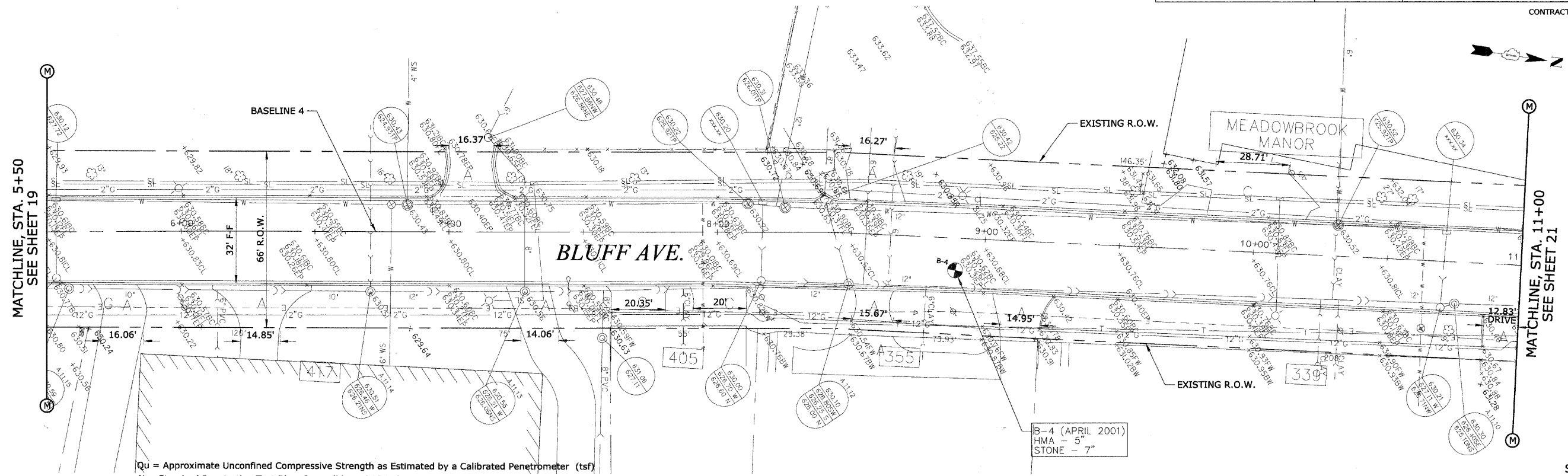
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NO.	BY	
NO.	BY	
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NO.	BY	

PROFILE	REVISIONS	DATE
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NO.	BY	
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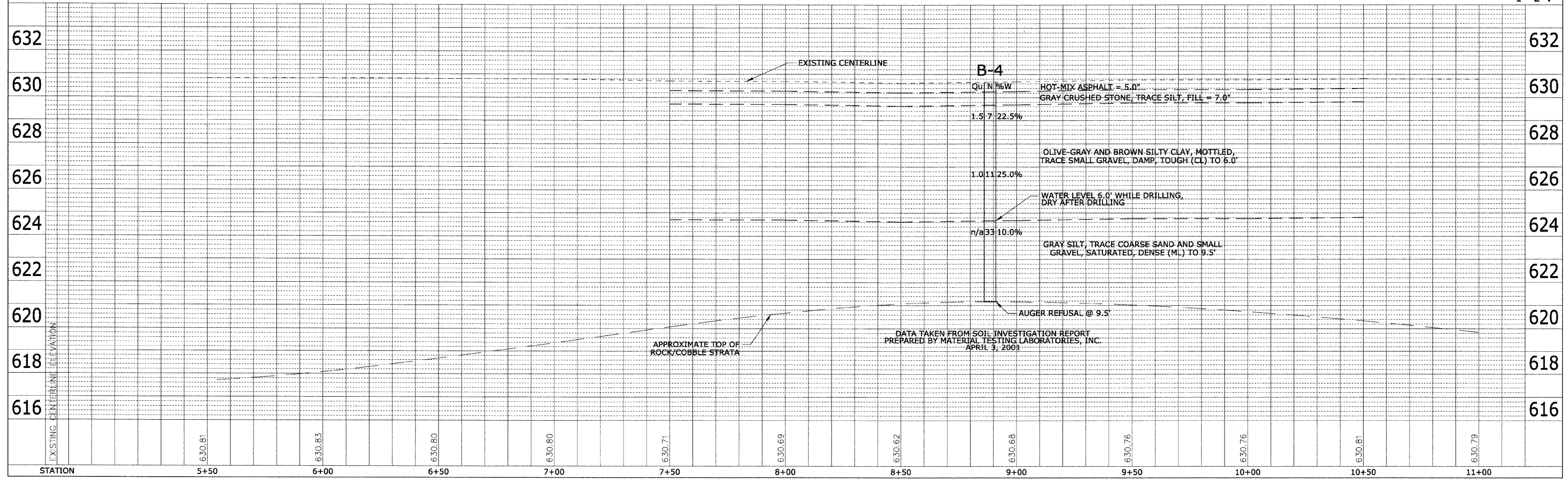




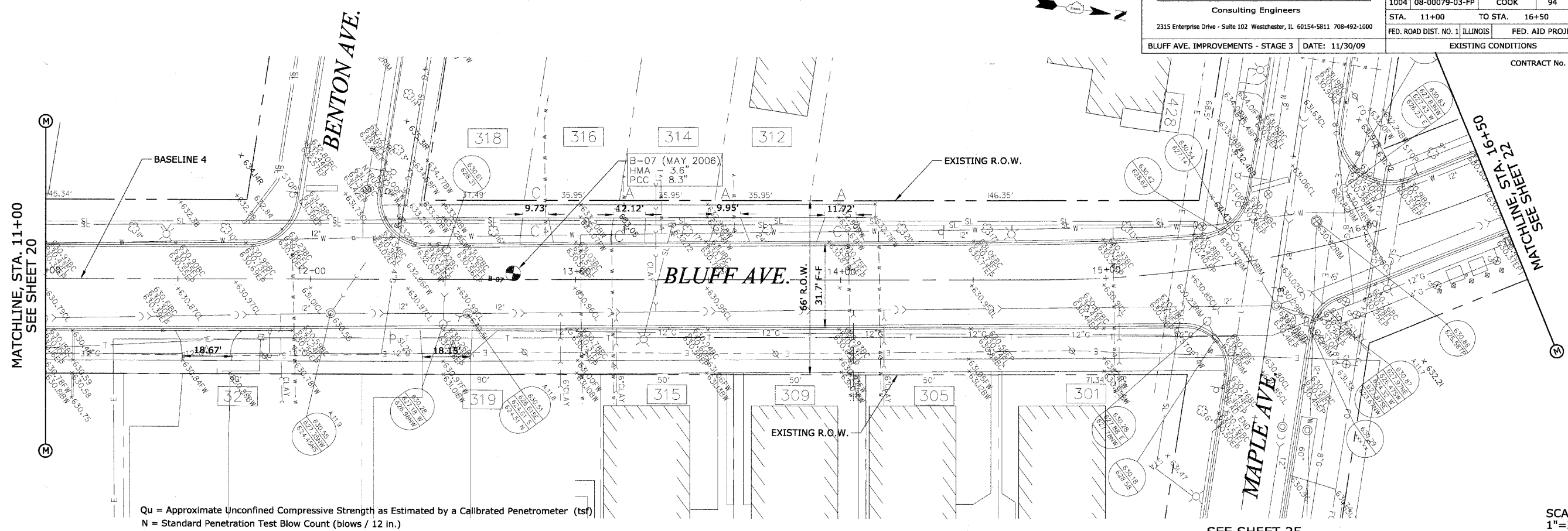
SCALE:  
 1" = 20' H  
 1" = 2' V

PLAN	REVISION	BY	DATE
NO.	NO.		

PROFILE	REVISION	BY	DATE
NO.	NO.		





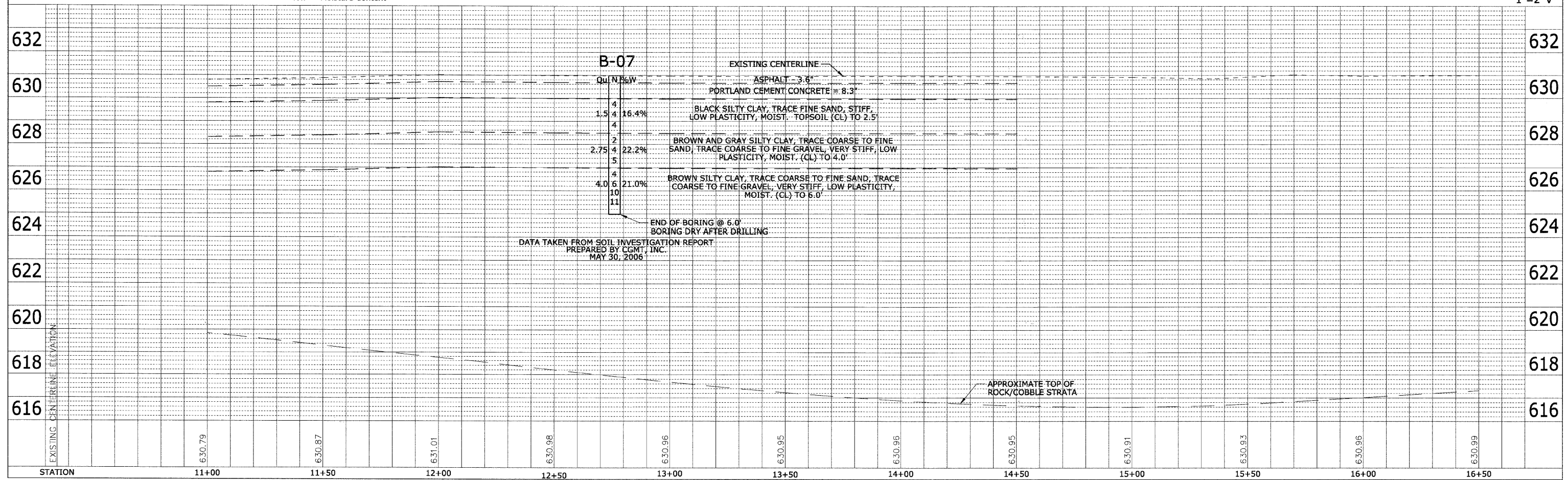


SEE SHEET 25

SCALE:  
 1" = 20' H  
 1" = 2' V

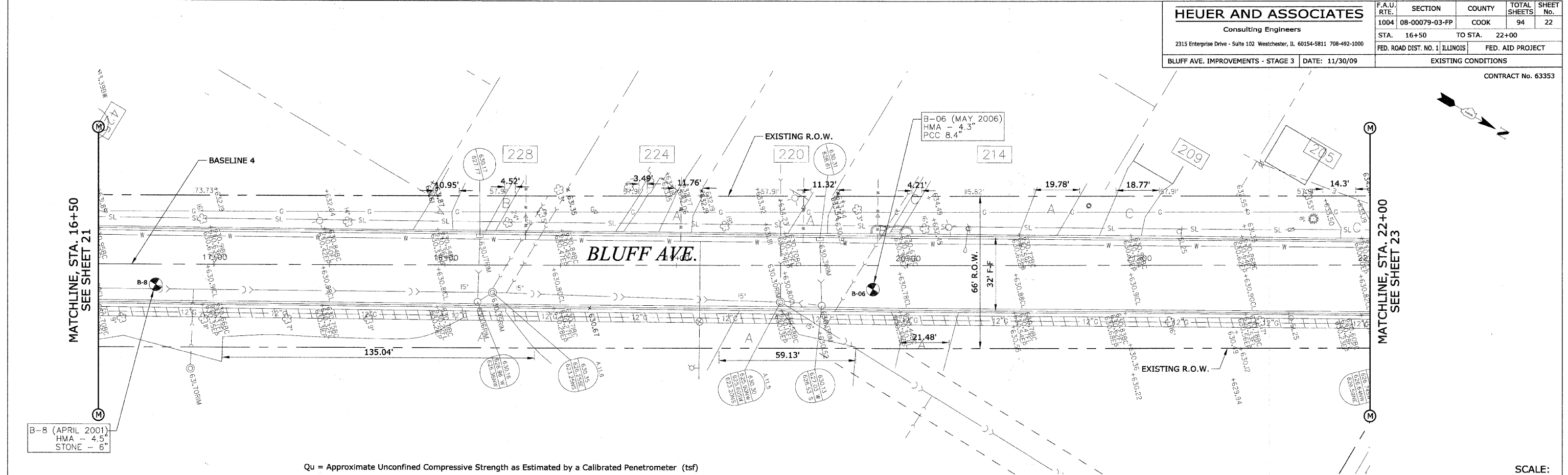
PLAN	REVISION	DATE
NOT BOOK	ALIGNED CHECKED	
NO.	DATE	
	FILE NAME	

PROFILE	REVISION	DATE
NOT BOOK	GRADES CHECKED	
NO.	STRUCTURE NOTATIONS CHD	



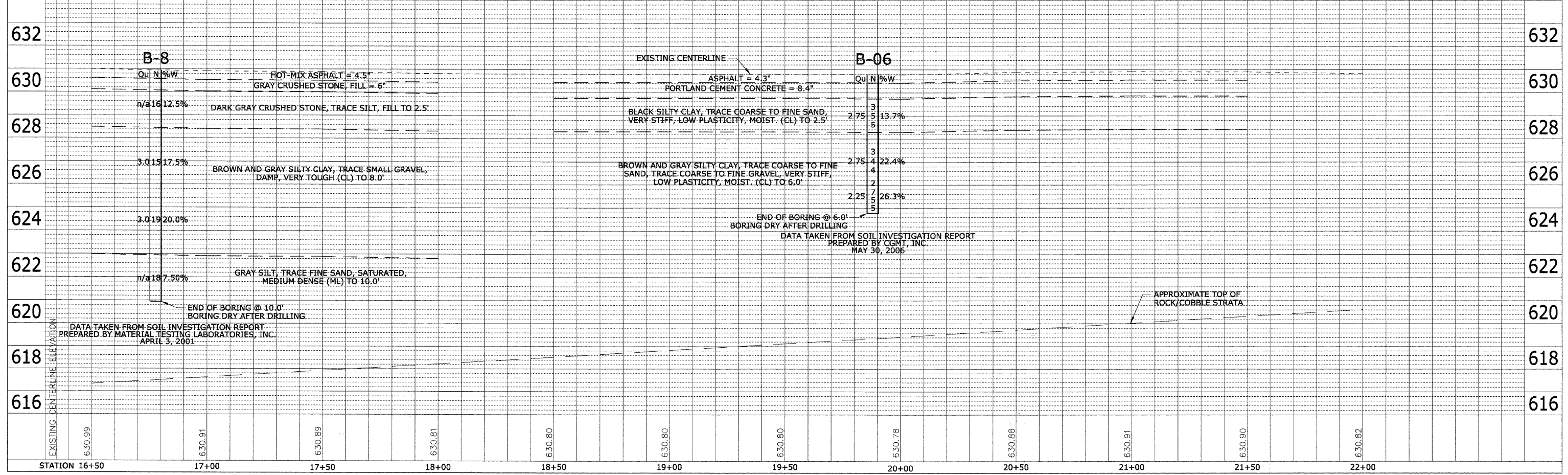
PLAN	REVISION	DATE
NO.	NO.	
BY	BY	DATE
DATE	DATE	DATE

PROFILE	REVISION	DATE
NO.	NO.	
BY	BY	DATE
DATE	DATE	DATE



Qu = Approximate Unconfined Compressive Strength as Estimated by a Calibrated Penetrometer (tsf)  
 N = Standard Penetration Test Blow Count (blows / 12 in.)  
 %w = Moisture Content

SCALE:  
 1" = 20' H  
 1" = 2' V



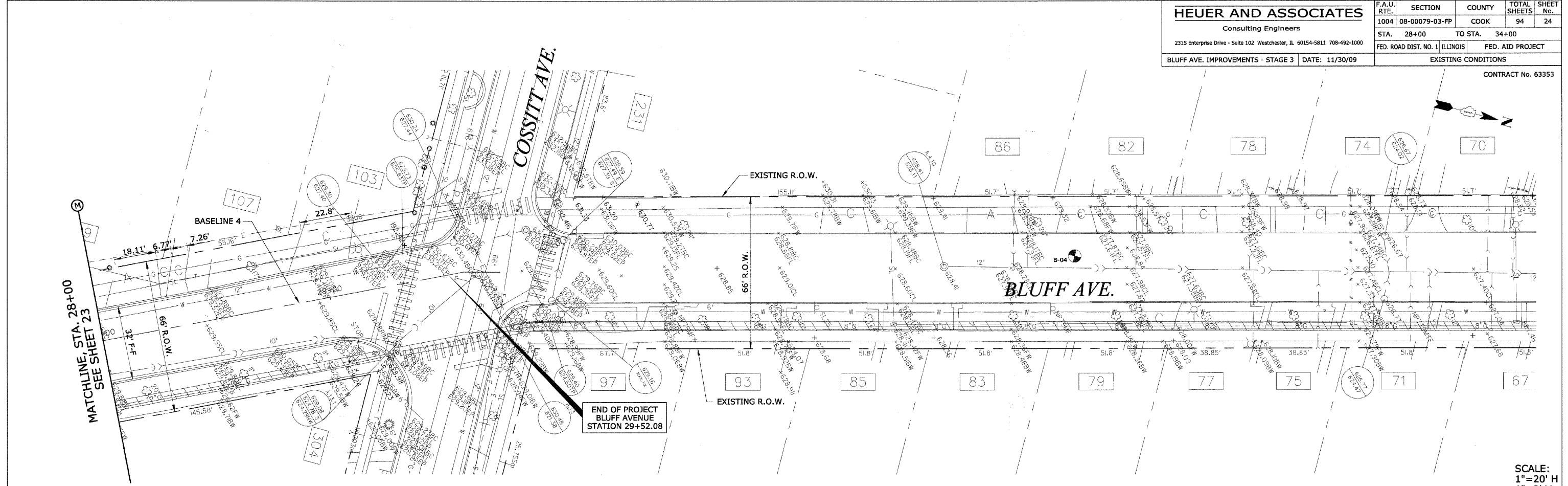




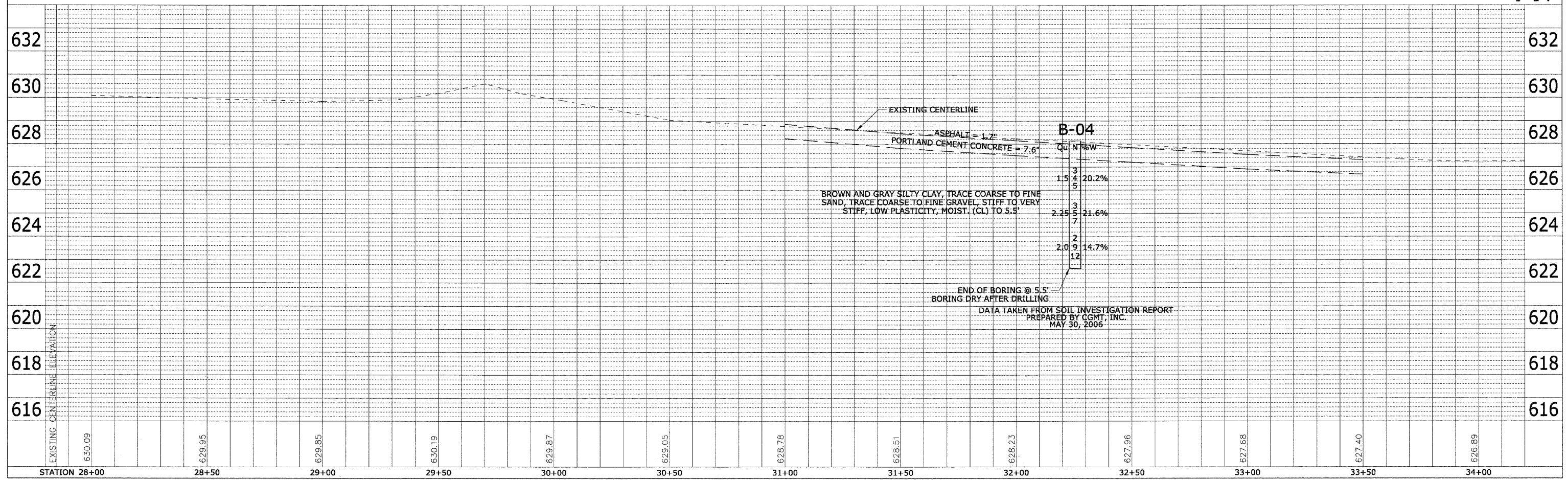
<b>HEUER AND ASSOCIATES</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
Consulting Engineers		1004	08-00079-03-PP	COOK	94	24
2315 Enterprise Drive - Suite 102 Westchester, IL 60154-5811 708-492-1000		STA.	28+00	TO STA.	34+00	
BLUFF AVE. IMPROVEMENTS - STAGE 3		DATE: 11/30/09		EXISTING CONDITIONS		CONTRACT No. 63353

PLAN	DESIGNED	DATE
	BY	
	CHECKED	
	DATE	

PROFILE	DESIGNED	DATE
	BY	
	CHECKED	
	DATE	



SCALE:  
1"=20' H  
1"=2' V



B-04

Qu	N	%W
3		
1.5	4	20.2%
5		
3		
7		
2		
2.0	9	14.7%
12		

END OF BORING @ 5.5'  
BORING DRY AFTER DRILLING  
DATA TAKEN FROM SOIL INVESTIGATION REPORT  
PREPARED BY CGMT, INC.  
MAY 30, 2006





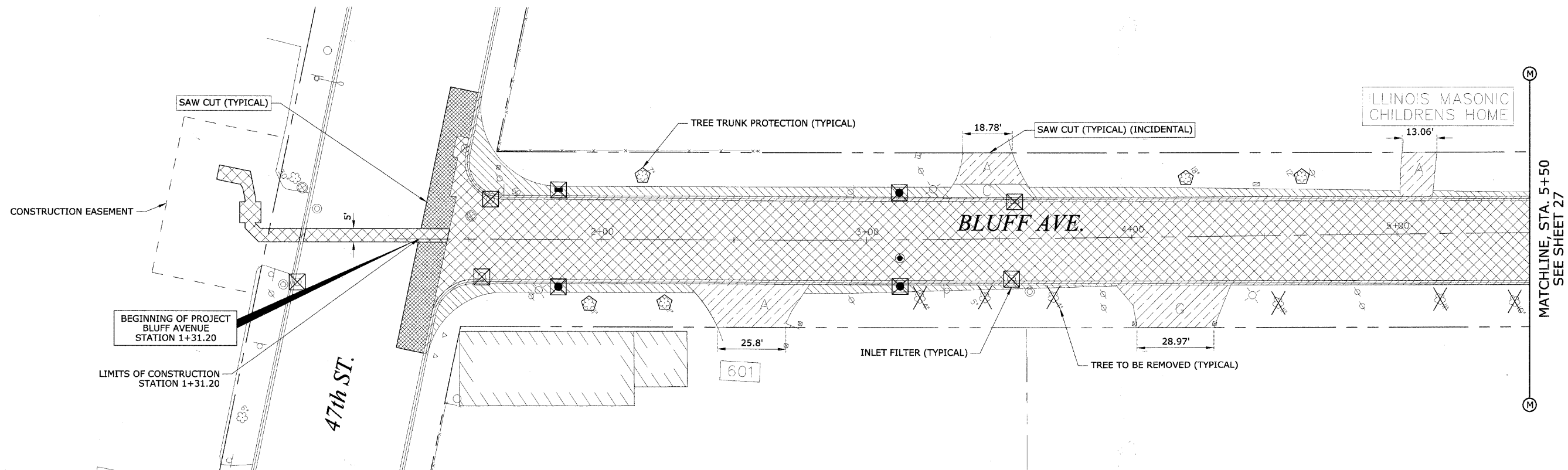
**HEUER AND ASSOCIATES**

Consulting Engineers

2315 Enterprise Drive - Suite 102 Westchester, IL 60154-5811 708-492-1000

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
1004	08-00079-03-FP	COOK	94	26
STA. 1+31.00	TO STA. 5+50			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT No. 63353



PLAN	SURVEYED	DATE
NOTE BOOK NO.	BY	
	CHECKED	
	DATE	

PROFILE	SURVEYED	DATE
NOTE BOOK NO.	BY	
	CHECKED	
	DATE	

**REMOVAL LEGEND**

- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
- PAVEMENT REMOVAL AND EXCAVATION
- SIDEWALK REMOVAL AND EXCAVATION
- CURB REMOVAL AND EXCAVATION
- HOT MIX ASPHALT DRIVEWAY REMOVAL AND EXCAVATION
- P.C.C. DRIVEWAY REMOVAL AND EXCAVATION
- A** ASPHALT DRIVEWAY
- B** BRICK SIDEWALK
- C** CONCRETE DRIVEWAY
- G** GRAVEL DRIVEWAY
- EARTH EXCAVATION
- TREE REMOVAL

**EROSION CONTROL LEGEND**

- INLET FILTER
- TREE PROTECTION AND PRESERVATION
- SILT FENCE

**EROSION CONTROL GENERAL NOTES**

1. INLET FILTERS ARE TO BE PROVIDED AND MAINTAINED FOR ALL EXISTING AND PROPOSED DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS AND/OR AS DIRECTED BY THE ENGINEER (SEE DETAIL).
2. THE CONSTRUCTION LIMITS WILL BE THE EAST AND WEST RIGHT-OF-WAY LIMITS FOR BLUFF AVENUE. THE CONSTRUCTION LIMITS MAY BE ADJUSTED BY THE ENGINEER AND NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR CHANGED CONSTRUCTION LIMITS.
3. SEE PAVEMENT MARKING, SIGNING AND LANDSCAPING PLAN SHEETS FOR SODDING INFORMATION.
4. SEE CROSS SECTIONS FOR GRADING INFORMATION.
5. SEE DRAINAGE AND UTILITY IMPROVEMENT SHEETS FOR STORM SEWER INFORMATION.

REVISIONS	
NAME	DATE
PER IDOT	01-04-10

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BLUFF AVENUE IMPROVEMENTS  
 STAGE 3**  
**REMOVAL AND EROSION CONTROL PLAN**  
 SCALE: 1" = 20' H (Full Size)  
 1" = 44' H (Tabloid)  
 DATE 11/30/2009  
 DRAWN BY H&A  
 CHECKED BY JRH



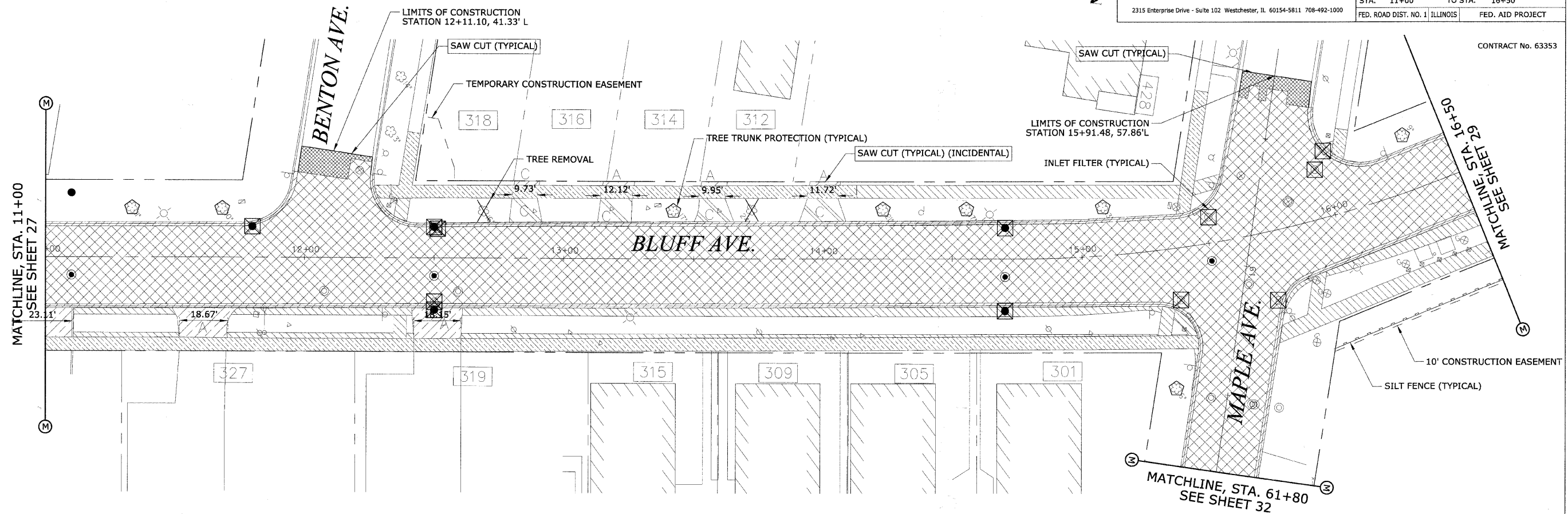
**HEUER AND ASSOCIATES**

Consulting Engineers

2315 Enterprise Drive - Suite 102 Westchester, IL 60154-5811 708-492-1000

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
1004	08-00079-03-FP	COOK	94	28
STA.	11+00	TO STA.	16+50	
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT	

CONTRACT No. 63353



PLAN	SURVEYED	DATE
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PROFILE	SURVEYED	DATE
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	DATE	

**REMOVAL LEGEND**

- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
- PAVEMENT REMOVAL AND EXCAVATION
- SIDEWALK REMOVAL AND EXCAVATION
- CURB REMOVAL AND EXCAVATION
- HOT MIX ASPHALT DRIVEWAY REMOVAL AND EXCAVATION
- P.C.C. DRIVEWAY REMOVAL AND EXCAVATION
- A** ASPHALT DRIVEWAY
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- G** GRAVEL DRIVEWAY
- EARTH EXCAVATION
- TREE REMOVAL

**EROSION CONTROL LEGEND**

- INLET FILTER
- TREE PROTECTION AND PRESERVATION
- SILT FENCE

REVISIONS	
NAME	DATE
PER IDOT	01-04-10

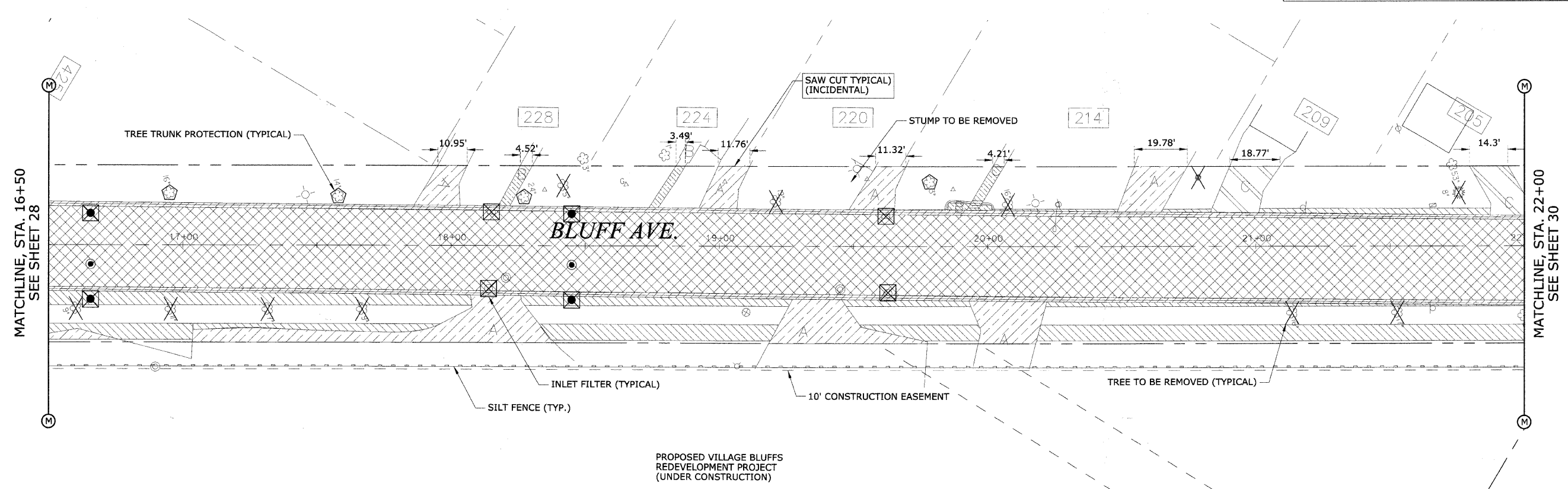
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BLUFF AVENUE IMPROVEMENTS  
 STAGE 3**

**REMOVAL AND EROSION CONTROL PLAN**

SCALE: 1" = 20' H (Full Size)  
 1" = 44' H (Tabloid)  
 DATE 11/30/2009  
 DRAWN BY H&A  
 CHECKED BY JRH

<b>HEUER AND ASSOCIATES</b>		F.A.U. No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
Consulting Engineers		1004	08-00079-03-FP	COOK	94	29
2315 Enterprise Drive - Suite 102 Westchester, IL 60154-5811 708-492-1000		STA. 16+50	TO STA. 22+00			
		FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

CONTRACT No. 63353



PROPOSED VILLAGE BLUFFS  
REDEVELOPMENT PROJECT  
(UNDER CONSTRUCTION)

**REMOVAL LEGEND**

- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
- PAVEMENT REMOVAL AND EXCAVATION
- SIDEWALK REMOVAL AND EXCAVATION
- CURB REMOVAL AND EXCAVATION
- HOT MIX ASPHALT DRIVEWAY REMOVAL AND EXCAVATION
- P.C.C. DRIVEWAY REMOVAL AND EXCAVATION
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- G** GRAVEL DRIVEWAY
- EARTH EXCAVATION
- TREE REMOVAL

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**EROSION CONTROL LEGEND**

- INLET FILTER
- TREE PROTECTION AND PRESERVATION
- SILT FENCE

REVISIONS	
NAME	DATE
PER IDOT	01-04-10

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BLUFF AVENUE IMPROVEMENTS  
STAGE 3**

**REMOVAL AND EROSION CONTROL PLAN**

SCALE: 1" = 20' H (Full Size)  
1" = 44' H (Tabloid)

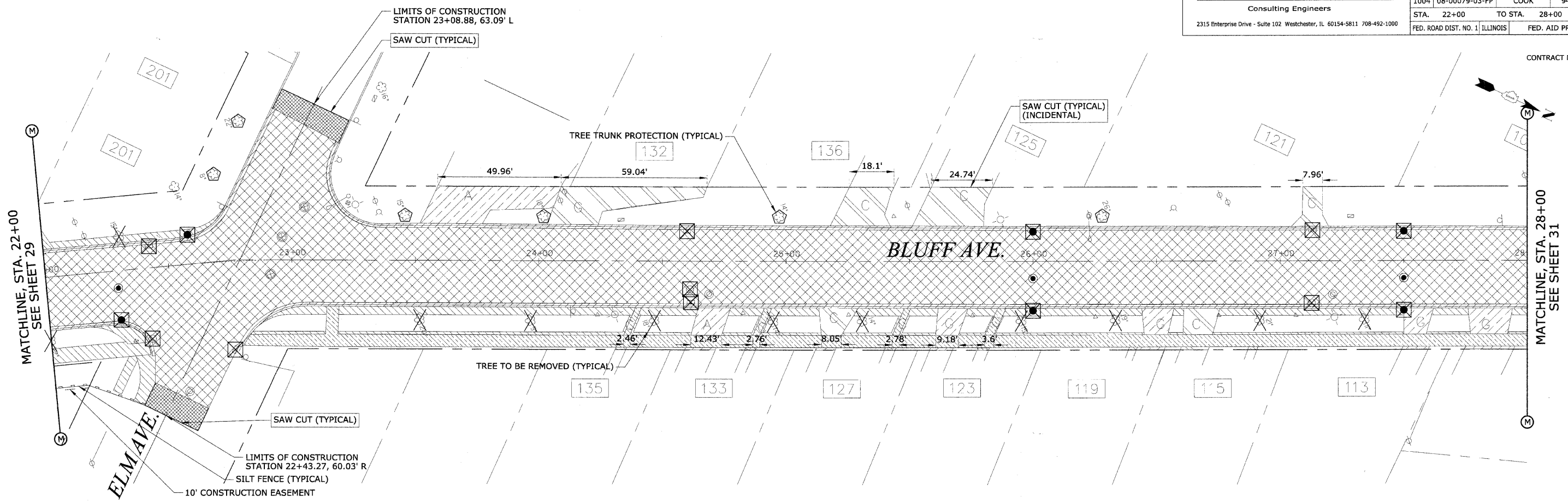
DATE 11/30/2009

DRAWN BY H&A  
CHECKED BY JRH

PLAN	DATE	BY
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NOTE BOOK		
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PROFILE	DATE	BY
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DESIGNED		
CHECKED		
NOTE BOOK		
NO.		

CONTRACT No. 63353



**REMOVAL LEGEND**

- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
- PAVEMENT REMOVAL AND EXCAVATION
- SIDEWALK REMOVAL AND EXCAVATION
- CURB REMOVAL AND EXCAVATION
- HOT MIX ASPHALT DRIVEWAY REMOVAL AND EXCAVATION
- P.C.C. DRIVEWAY REMOVAL AND EXCAVATION
- A** ASPHALT DRIVEWAY
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- C** CONCRETE DRIVEWAY
- G** GRAVEL DRIVEWAY
- EARTH EXCAVATION
- TREE REMOVAL

**EROSION CONTROL LEGEND**

- INLET FILTER
- TREE PROTECTION AND PRESERVATION
- SILT FENCE

PLAN

DATE	BY	SURVEYED	ALIGNED	CHECKED
NOTE BOOK NO.	DATE	BY	DATE	BY

PROFILE

DATE	BY	SURVEYED	GRADES CHECKED
NOTE BOOK NO.	DATE	BY	DATE

REVISIONS	
NAME	DATE
PER IDOT	01-04-10

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BLUFF AVENUE IMPROVEMENTS  
 STAGE 3**

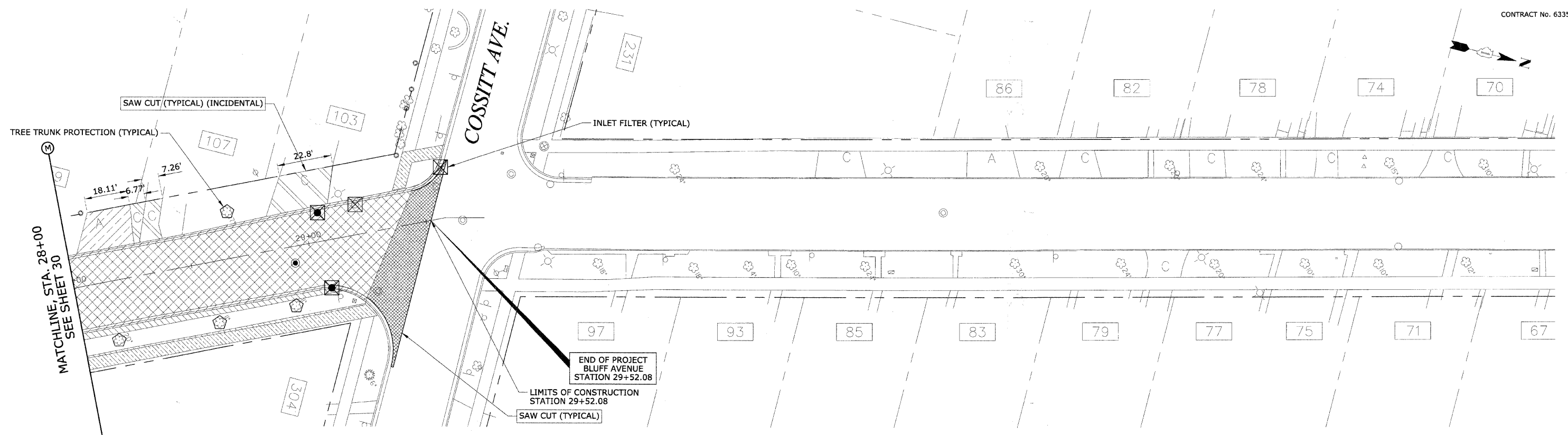
**REMOVAL AND EROSION CONTROL PLAN**

SCALE: 1" = 20' H (Full Size)  
 1" = 44' H (Tabloid)

DATE 11/30/2009 DRAWN BY H&A  
 CHECKED BY JRH



CONTRACT No. 63353



PLAN	SURVEYED	DATE
NOTE BOOK	ALIGNMENT CHECKED	
NO.	BY	
	DATE	

PROFILE	SURVEYED	DATE
NOTE BOOK	GRADES CHECKED	
NO.	BY	
	DATE	

**REMOVAL LEGEND**

	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
	PAVEMENT REMOVAL AND EXCAVATION
	SIDEWALK REMOVAL AND EXCAVATION
	CURB REMOVAL AND EXCAVATION
	HOT MIX ASPHALT DRIVEWAY REMOVAL AND EXCAVATION
	P.C.C. DRIVEWAY REMOVAL AND EXCAVATION
A	ASPHALT DRIVEWAY
B	BRICK SIDEWALK
C	CONCRETE DRIVEWAY
G	GRAVEL DRIVEWAY
	EARTH EXCAVATION
	TREE REMOVAL

**EROSION CONTROL LEGEND**

	INLET FILTER
	TREE PROTECTION AND PRESERVATION
	SILT FENCE

REVISIONS	
NAME	DATE
PER IDOT	01-04-10

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BLUFF AVENUE IMPROVEMENTS  
 STAGE 3**

**REMOVAL AND EROSION CONTROL PLAN**

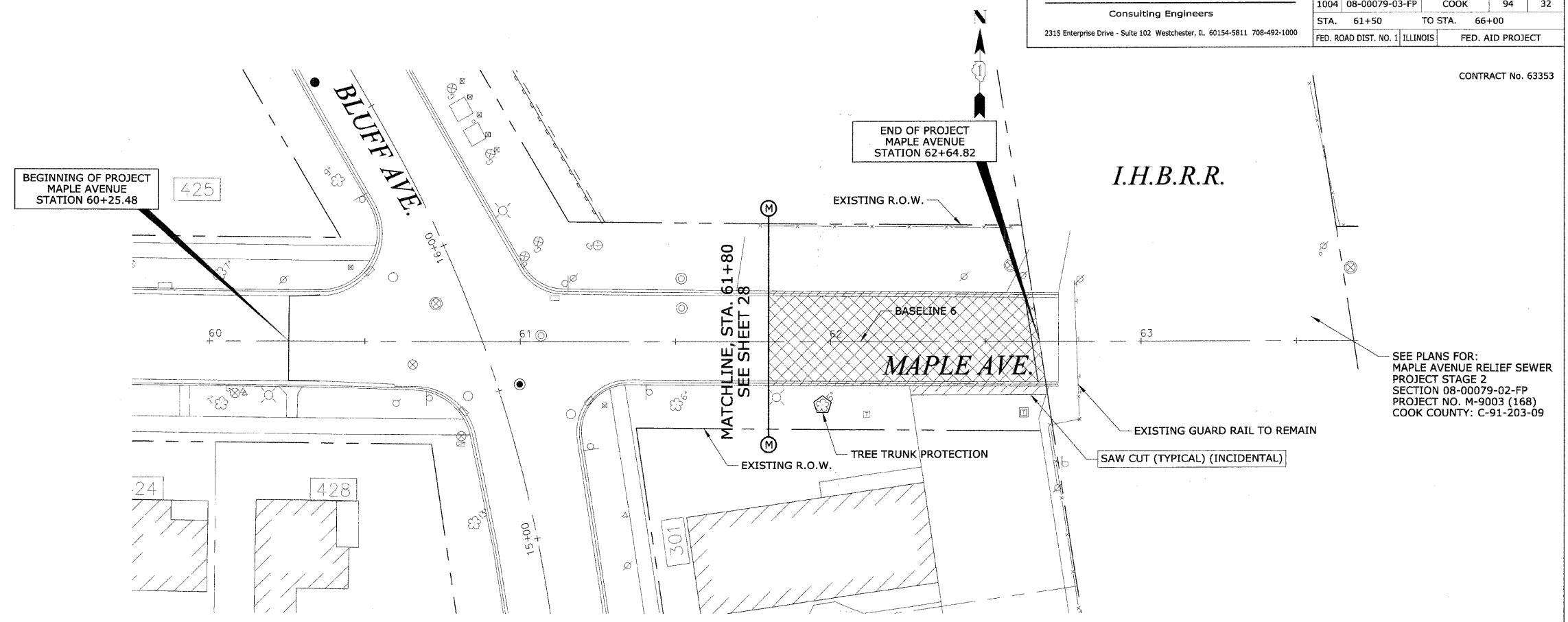
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 1" = 44' H (Tabloid)

DATE 11/30/2009

DRAWN BY H&A  
 CHECKED BY JRH

<b>HEUER AND ASSOCIATES</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
Consulting Engineers		1004	08-00079-03-FP	COOK	94	32
2315 Enterprise Drive - Suite 102 Westchester, IL 60154-5811 708-492-1000		STA.	61+50	TO STA.	66+00	
		FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT No. 63353



SEE PLANS FOR:  
 MAPLE AVENUE RELIEF SEWER  
 PROJECT STAGE 2  
 SECTION 08-00079-02-FP  
 PROJECT NO. M-9003 (168)  
 COOK COUNTY: C-91-203-09

**REMOVAL LEGEND**

- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
- PAVEMENT REMOVAL AND EXCAVATION
- SIDEWALK REMOVAL AND EXCAVATION
- CURB REMOVAL AND EXCAVATION
- HOT MIX ASPHALT DRIVEWAY REMOVAL AND EXCAVATION
- P.C.C. DRIVEWAY REMOVAL AND EXCAVATION
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- G** GRAVEL DRIVEWAY
- EARTH EXCAVATION
- TREE REMOVAL

**EROSION CONTROL LEGEND**

- INLET FILTER
- TREE PROTECTION AND PRESERVATION
- SILT FENCE

PLAN	DATE
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REVISIONS	
NAME	DATE
PER IDOT	01-04-10

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BLUFF AVENUE IMPROVEMENTS  
 STAGE 3**

**REMOVAL AND EROSION CONTROL PLAN**

SCALE: 1" = 20' H (Full Size)  
 1/4" = 44' H (Tabloid)

DATE 11/30/2009

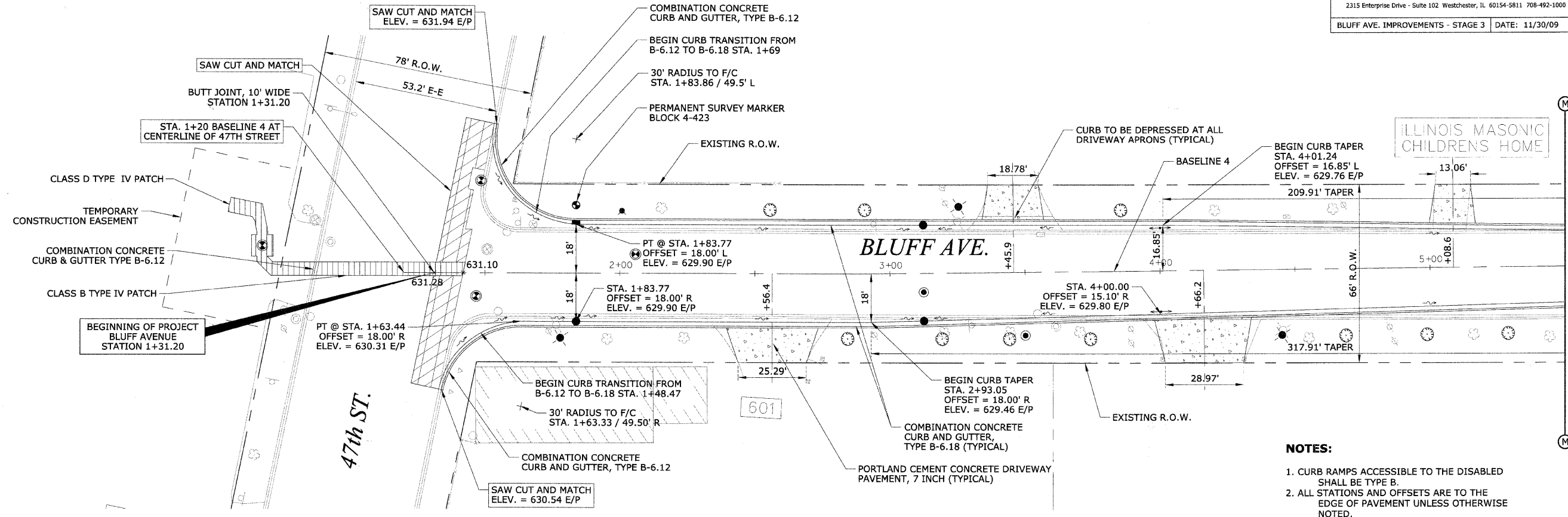
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 CHECKED BY JRH

REVISIONS	
NAME	DATE
PER IDOT	01-04-10

**HEUER AND ASSOCIATES**  
 Consulting Engineers  
 2315 Enterprise Drive - Suite 102 Westchester, IL 60154-5811 708-492-1000  
 BLUFF AVE. IMPROVEMENTS - STAGE 3 DATE: 11/30/09

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
1004	08-00079-03-FP	COOK	94	33
STA. 1+31.00		TO STA. 5+50		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
PLAN AND PROFILE				

CONTRACT No. 63353

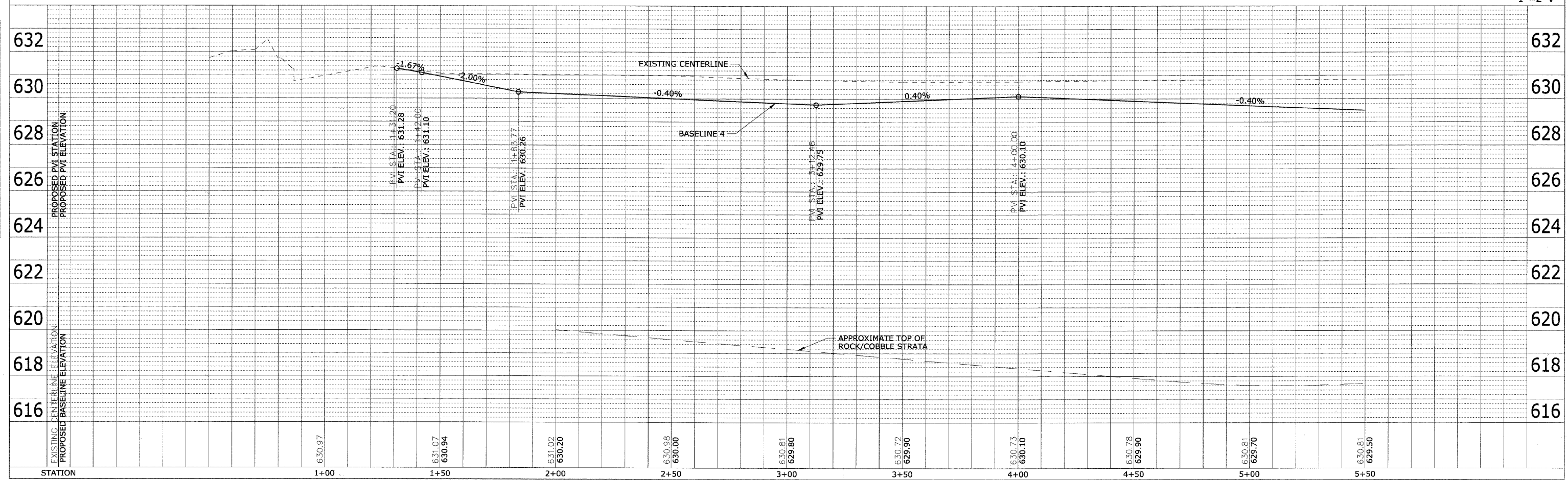


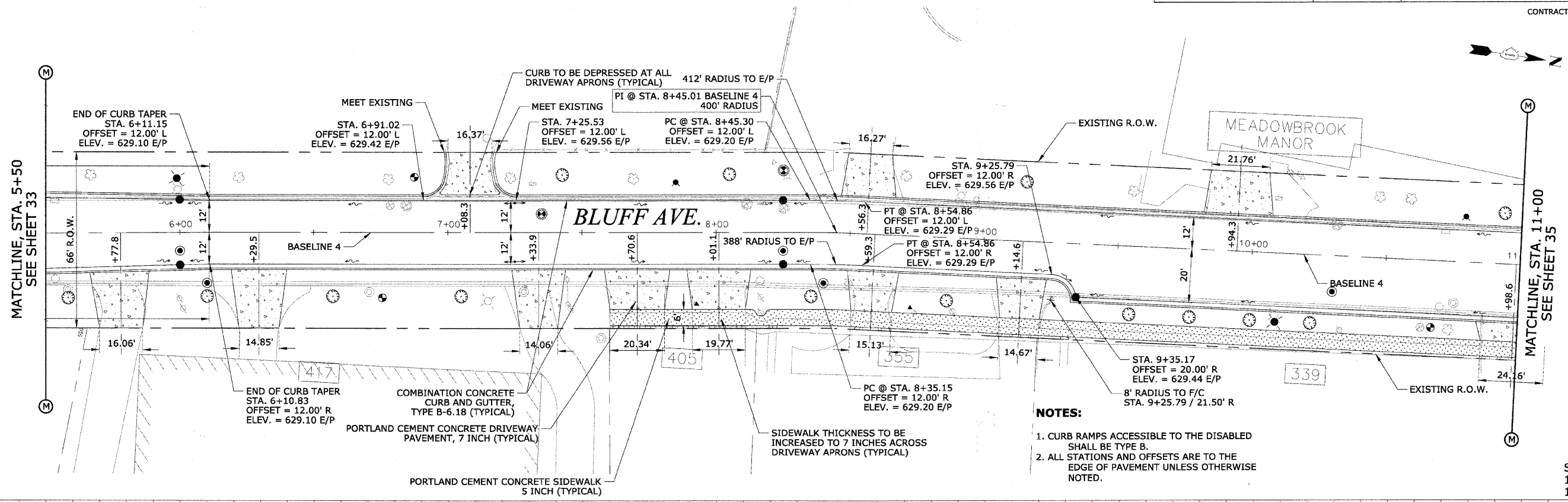
- NOTES:**
- CURB RAMPS ACCESSIBLE TO THE DISABLED SHALL BE TYPE B.
  - ALL STATIONS AND OFFSETS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

SCALE:  
 1"=20' H  
 1"=2' V

PLAN	DATE
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CHECKED: _____	_____
DATE: _____	_____

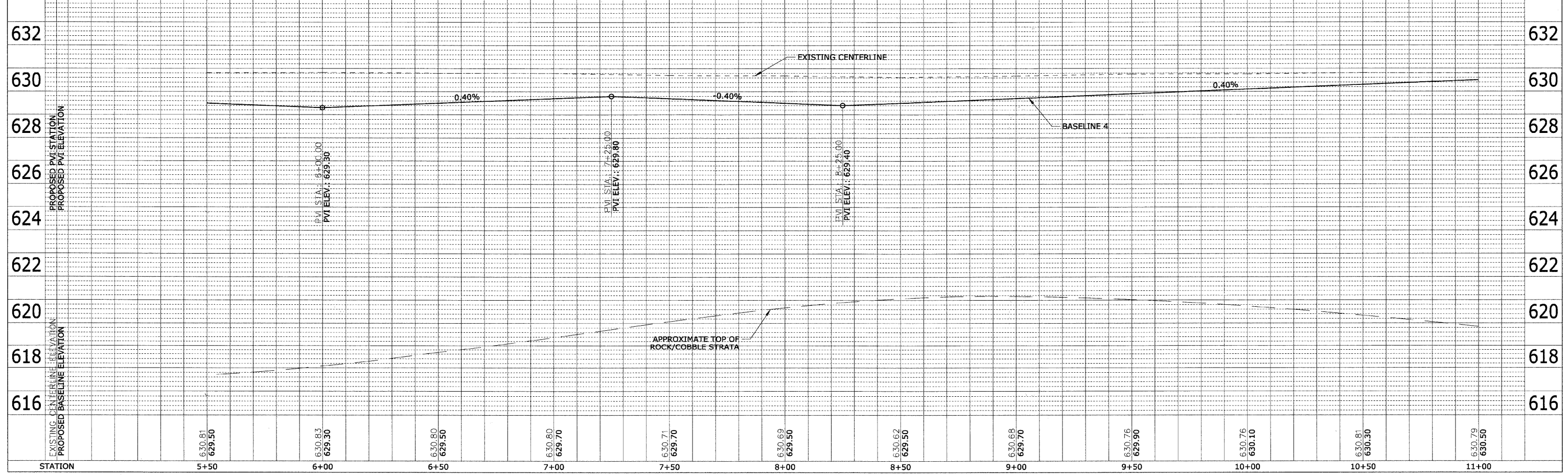
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CHECKED: _____	_____
DATE: _____	_____





DATE	
BY	
DESIGNED	
PLANNED	
CHECKED	
APPROVED	
NOTE BOOK NO.	
STRUCTURE NO.	
NOTATION SHEET NO.	

DATE	
BY	
DESIGNED	
PLANNED	
CHECKED	
APPROVED	
NOTE BOOK NO.	
STRUCTURE NO.	
NOTATION SHEET NO.	



SCALE:  
 1"=20' H  
 1"=2' V



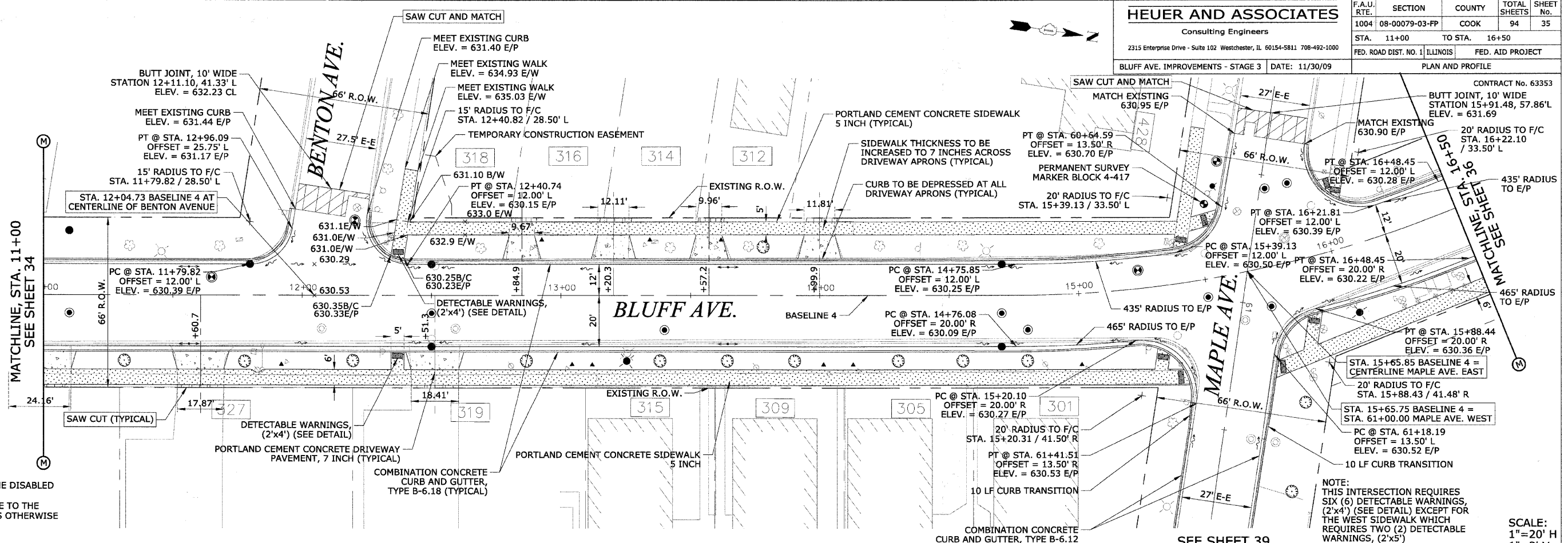
# HEUER AND ASSOCIATES

Consulting Engineers

2315 Enterprise Drive - Suite 102 Westchester, IL 60154-5811 708-492-1000

BLUFF AVE. IMPROVEMENTS - STAGE 3 DATE: 11/30/09

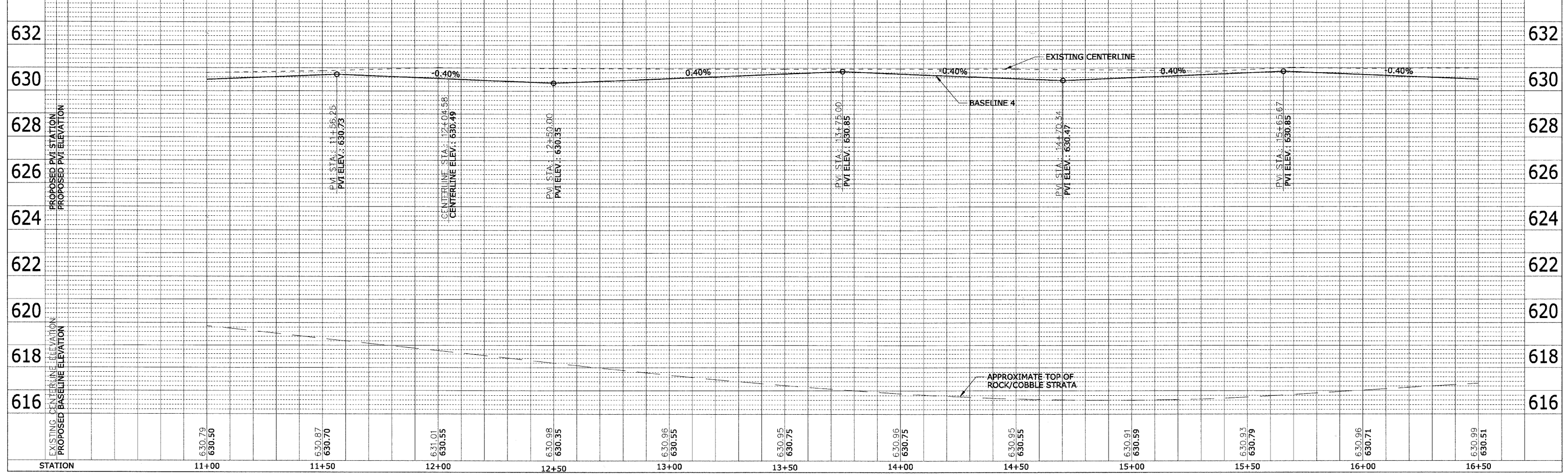
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1004	08-00079-03-PP	COOK	94	35
STA. 11+00	TO STA. 16+50			
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT	



- NOTES:**
1. CURB RAMPS ACCESSIBLE TO THE DISABLED SHALL BE TYPE B.
  2. ALL STATIONS AND OFFSETS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

NOTE: THIS INTERSECTION REQUIRES SIX (6) DETECTABLE WARNINGS, (2'x4') (SEE DETAIL) EXCEPT FOR THE WEST SIDEWALK WHICH REQUIRES TWO (2) DETECTABLE WARNINGS, (2'x5')

SCALE:  
1"=20' H  
1"=2' V



DATE	BY	REVISION
		DESIGNED
		PLOTTED
		ALIGNED
		CHECKED
		STRUCTURE
		NOTATIONS
		CHKD
		NO.

DATE	BY	REVISION
		DESIGNED
		PLOTTED
		ALIGNED
		CHECKED
		STRUCTURE
		NOTATIONS
		CHKD
		NO.



REVISIONS	
NAME	DATE
PER IDOT	01-04-10

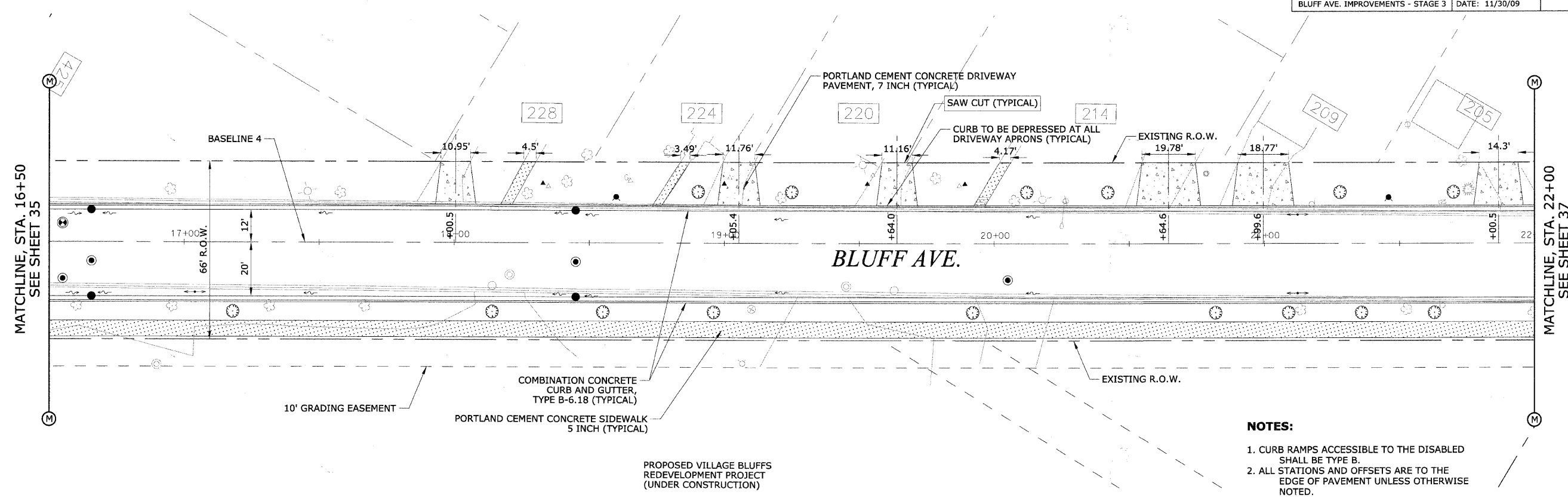
**HEUER AND ASSOCIATES**  
 Consulting Engineers  
 2315 Enterprise Drive - Suite 102 Westchester, IL 60154-5811 708-492-1000  
**BLUFF AVE. IMPROVEMENTS - STAGE 3** DATE: 11/30/09

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
1004	08-00079-03-FP	COOK	94	36
STA. 16+50		TO STA. 22+00		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
PLAN AND PROFILE				

CONTRACT No. 63353

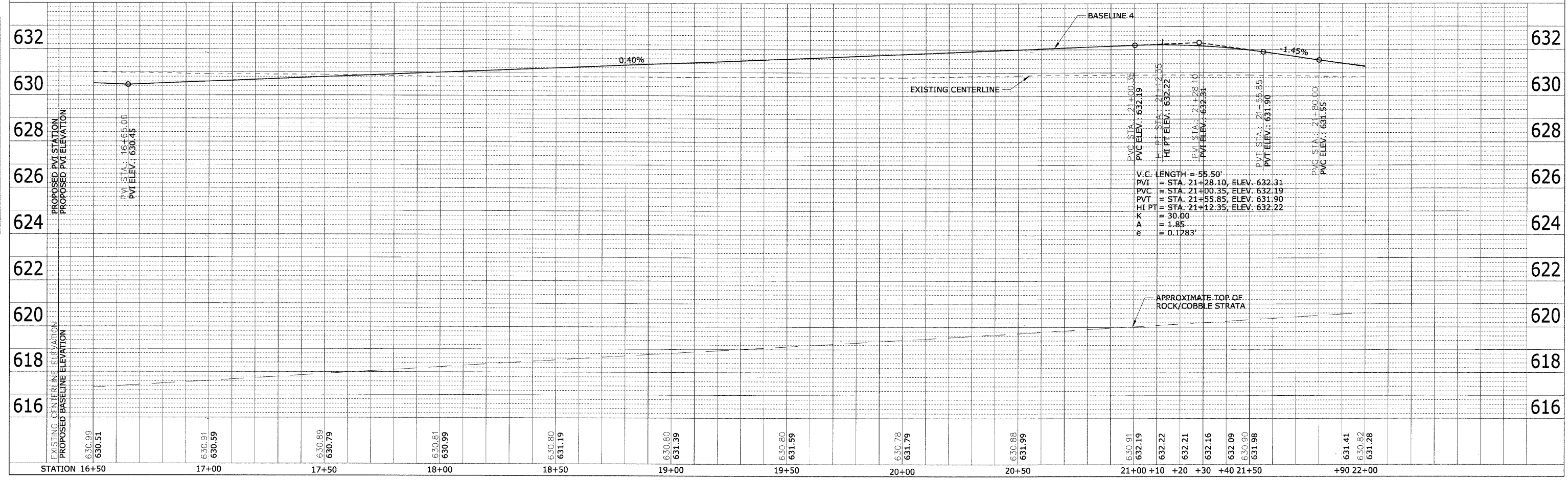
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NOTE BOOK	ALIGNED	CHECKED	
NO.	FILE NAME		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK	GRADES	CHECKED	
NO.	FILE NAME		



- NOTES:**
1. CURB RAMPS ACCESSIBLE TO THE DISABLED SHALL BE TYPE B.
  2. ALL STATIONS AND OFFSETS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

SCALE:  
 1"=20' H  
 1"=2' V







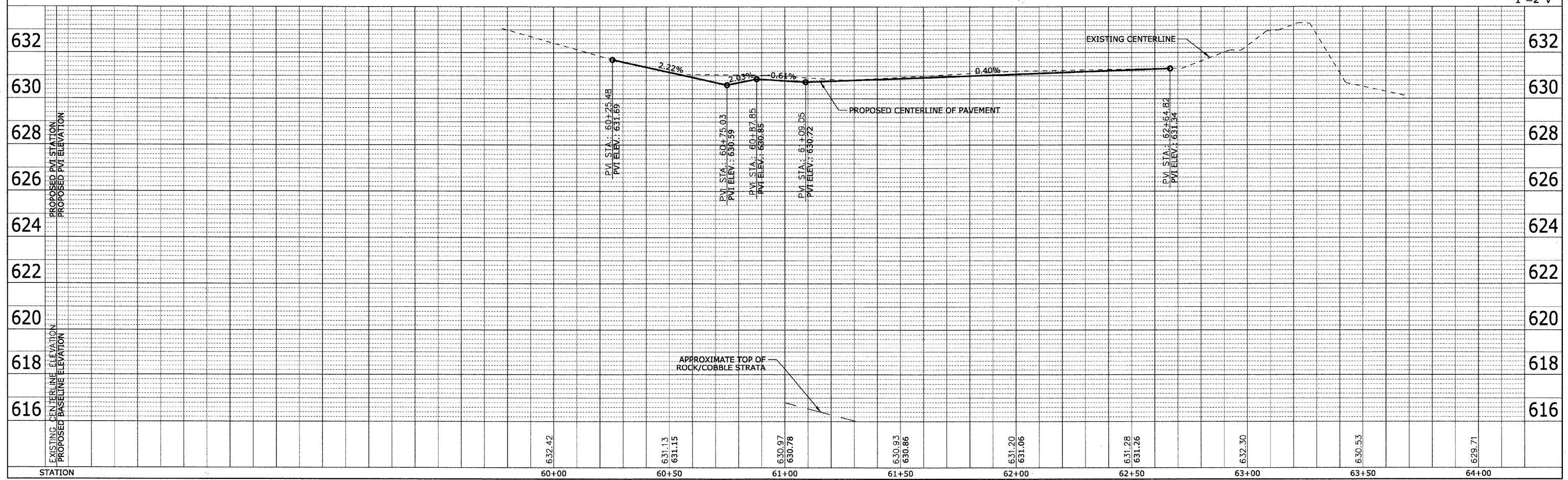
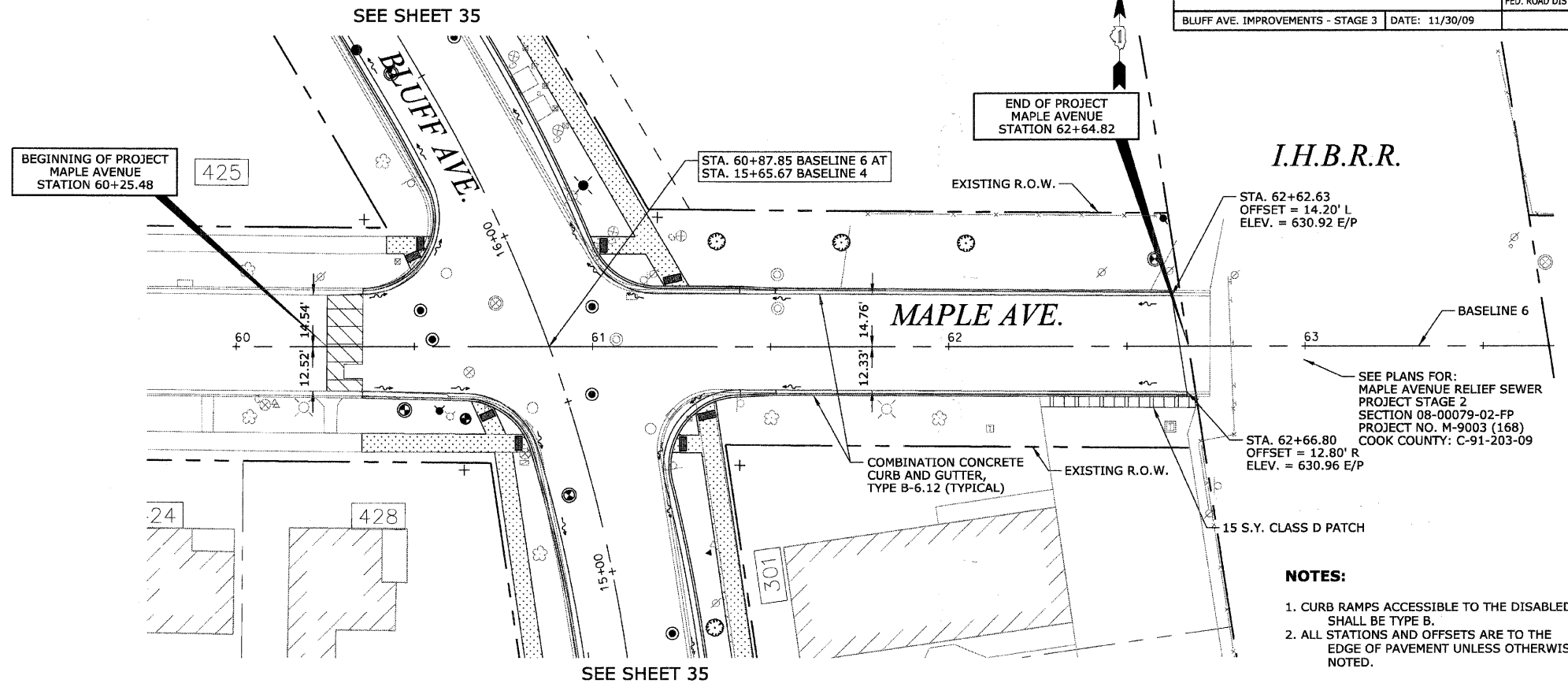


<b>HEUER AND ASSOCIATES</b>				
Consulting Engineers				
2315 Enterprise Drive - Suite 102 Westchester, IL 60154-5811 708-492-1000				
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
1004	08-00079-03-FP	COOK	94	39
STA. 61+50	TO STA. 66+00			
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT		
BLUFF AVE. IMPROVEMENTS - STAGE 3			DATE: 11/30/09	
PLAN AND PROFILE				

CONTRACT No. 63353

PLAN	DESIGNED	DATE
NO.	BY	
NO.	CHECKED	
NO.	PLOTTED	
NO.	ALLOWED	
NO.	CADD FILE NAME	

PROFILE	DESIGNED	DATE
NO.	BY	
NO.	CHECKED	
NO.	PLOTTED	
NO.	ALLOWED	
NO.	STRUCTURE NOTATIONS CHKD	



REVISIONS	
NAME	DATE
PER IDOT	01-04-10

### HEUER AND ASSOCIATES

Consulting Engineers  
 2315 Enterprise Drive - Suite 102 Westchester, IL 60154-5811 708-492-1000  
 BLUFF AVE. IMPROVEMENTS - STAGE 3 DATE: 11/30/09

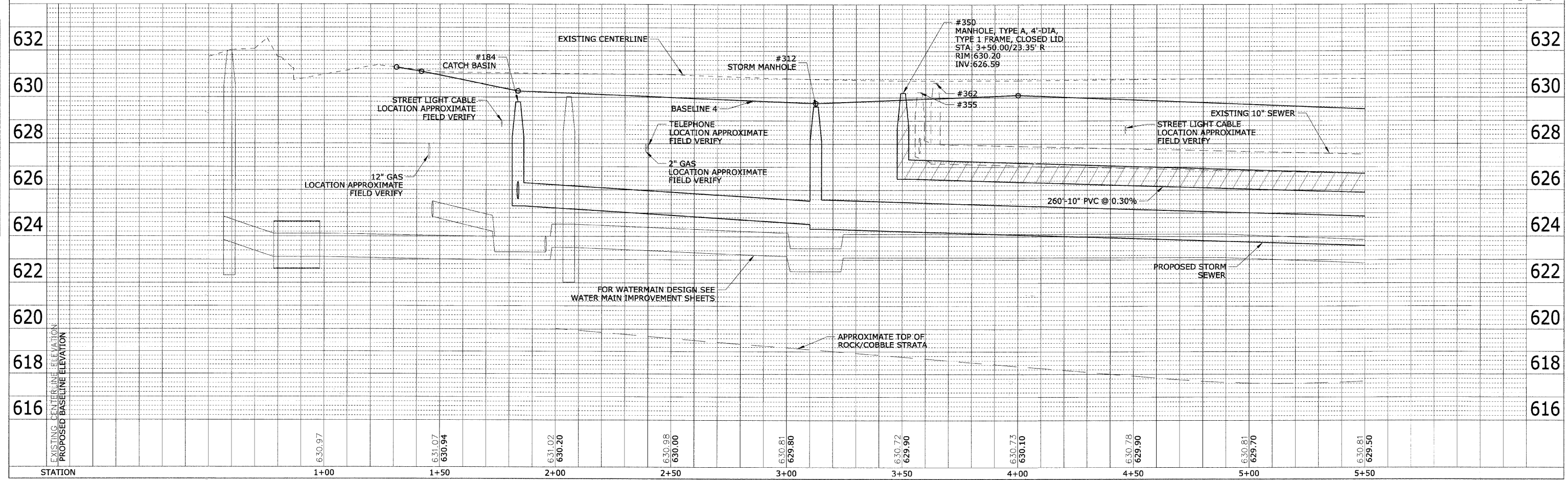
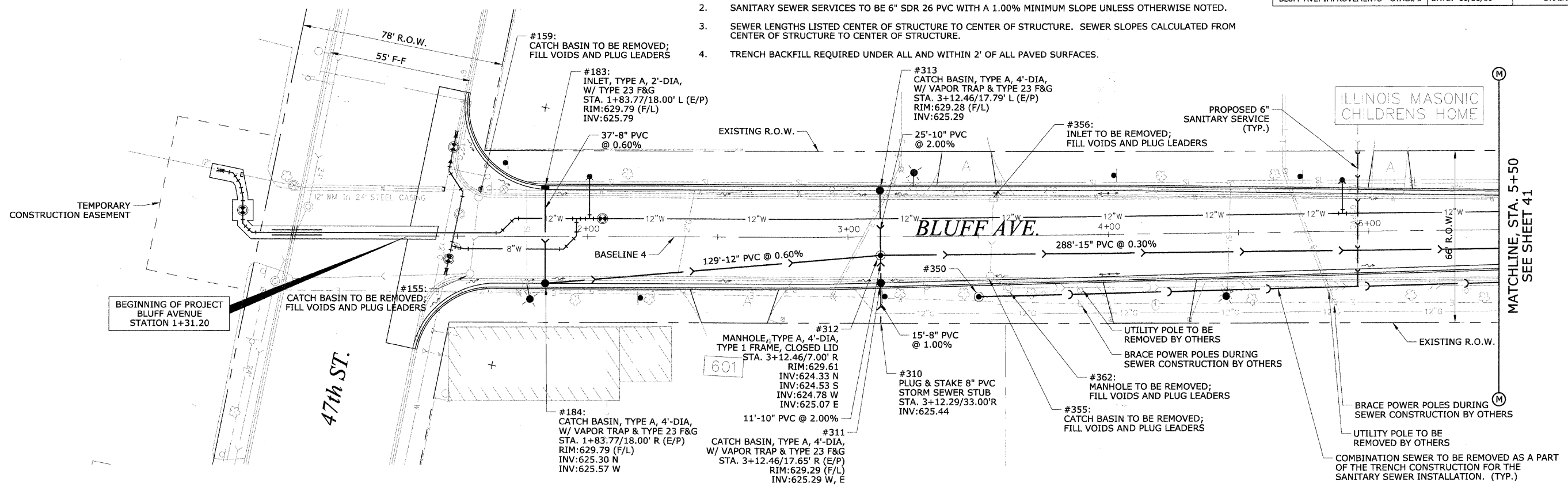
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
1004	08-00079-03-FP	COOK	94	40
STA. 1+31.00	TO STA. 5+50	FED. AID PROJECT		
DRAINAGE AND UTILITY IMPROVEMENTS		CONTRACT No. 63353		

#### NOTES:

- SANITARY SEWER SERVICE LATERALS AND DRAINAGE STRUCTURE LATERALS SHALL BE CONNECTED TO THE ASSOCIATED SEWER AT MANHOLE STRUCTURES, OR AT WYE OR TEE CONNECTIONS. THE EXACT LOCATION OF EACH SEWER SERVICE LATERAL SHALL BE CONFIRMED IN THE FIELD.
- SANITARY SEWER SERVICES TO BE 6" SDR 26 PVC WITH A 1.00% MINIMUM SLOPE UNLESS OTHERWISE NOTED.
- SEWER LENGTHS LISTED CENTER OF STRUCTURE TO CENTER OF STRUCTURE. SEWER SLOPES CALCULATED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- TRENCH BACKFILL REQUIRED UNDER ALL AND WITHIN 2' OF ALL PAVED SURFACES.

DATE	BY	REVISION

DATE	BY	REVISION



SCALE:  
 1"=20' H  
 1"=2' V





- NOTES:**
- SANITARY SEWER SERVICE LATERALS AND DRAINAGE STRUCTURE LATERALS SHALL BE CONNECTED TO THE ASSOCIATED SEWER AT MANHOLE STRUCTURES, OR AT WYE OR TEE CONNECTIONS. THE EXACT LOCATION OF EACH SEWER SERVICE LATERAL SHALL BE CONFIRMED IN THE FIELD.
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  - TRENCH BACKFILL REQUIRED UNDER ALL AND WITHIN 2' OF ALL PAVED SURFACES.

REVISIONS	
NAME	DATE
PER IDOT	01-04-10

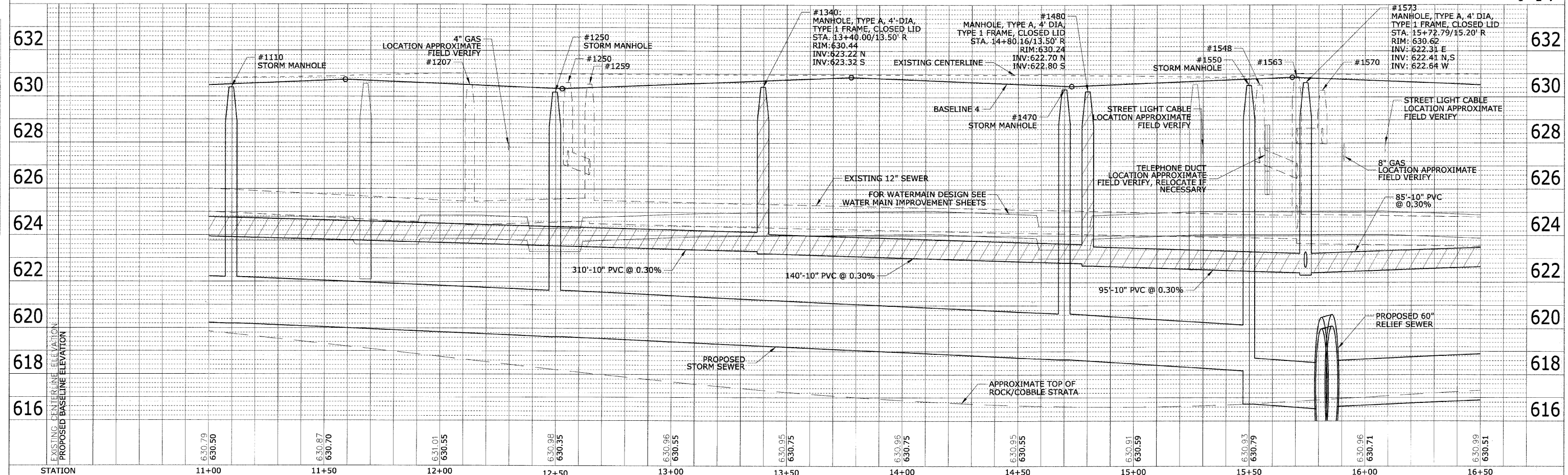
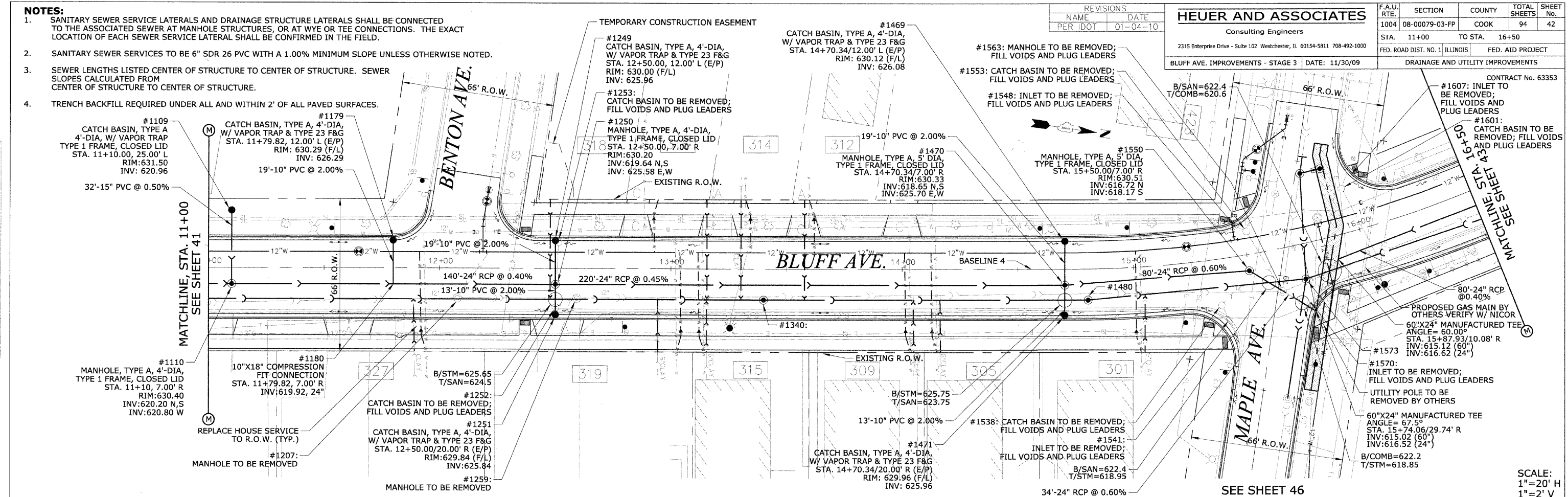
**HEUER AND ASSOCIATES**  
 Consulting Engineers  
 2315 Enterprise Drive - Suite 102 Westchester, IL 60154-5811 708-492-1000  
 BLUFF AVE. IMPROVEMENTS - STAGE 3 DATE: 11/30/09

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
1004	08-00079-03-FP	COOK	94	42
STA. 11+00		TO STA. 16+50		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
DRAINAGE AND UTILITY IMPROVEMENTS				

CONTRACT No. 63353

PLAN	DATE	BY	CHECKED

PROFILE	DATE	BY	CHECKED



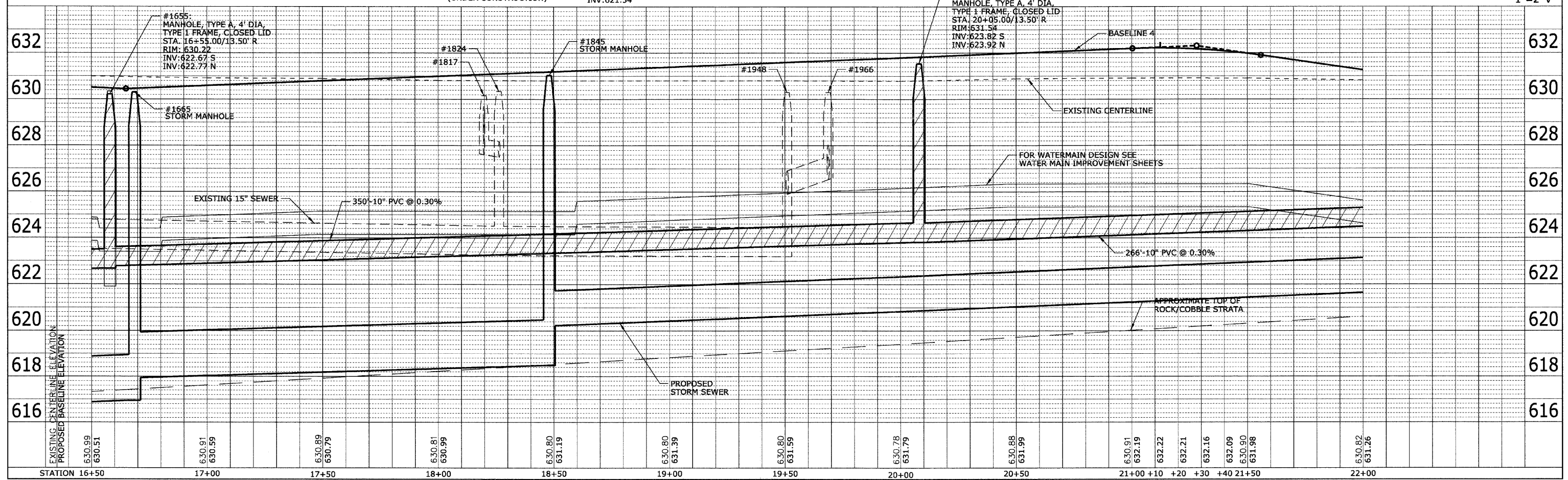
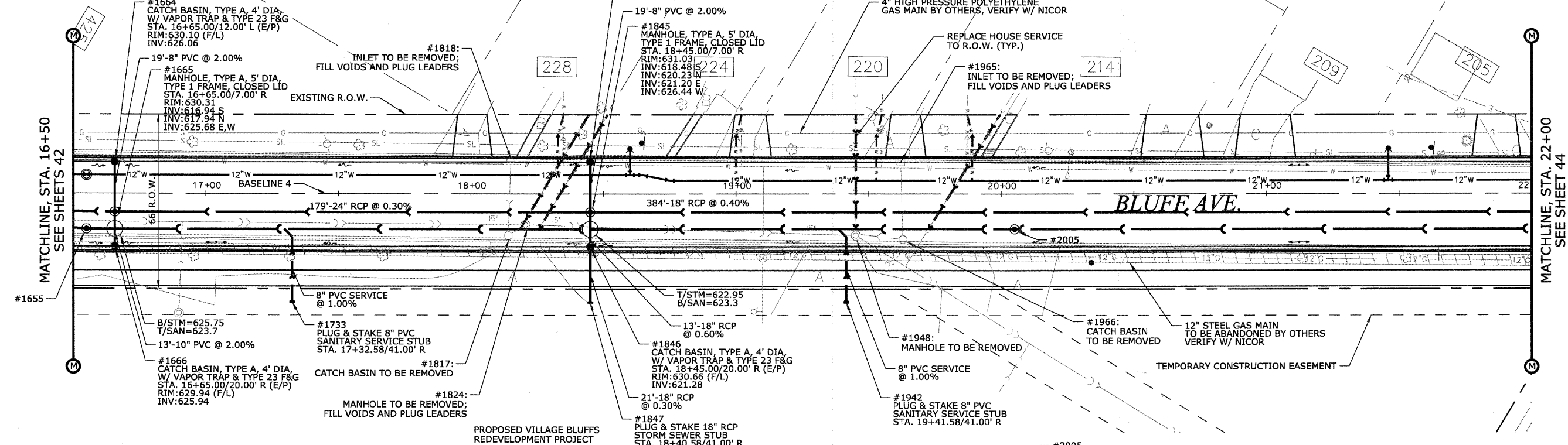
SCALE: 1"=20' H  
1"=2' V



- NOTES:**
- SANITARY SEWER SERVICE LATERALS AND DRAINAGE STRUCTURE LATERALS SHALL BE CONNECTED TO THE ASSOCIATED SEWER AT MANHOLE STRUCTURES, OR AT WYE OR TEE CONNECTIONS. THE EXACT LOCATION OF EACH SEWER SERVICE LATERAL SHALL BE CONFIRMED IN THE FIELD.
  - SANITARY SEWER SERVICES TO BE 6" SDR 26 PVC WITH A 1.00% MINIMUM SLOPE UNLESS OTHERWISE NOTED.
  - SEWER LENGTHS LISTED CENTER OF STRUCTURE TO CENTER OF STRUCTURE. SEWER SLOPES CALCULATED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
  - TRENCH BACKFILL REQUIRED UNDER ALL AND WITHIN 2' OF ALL PAVED SURFACES.

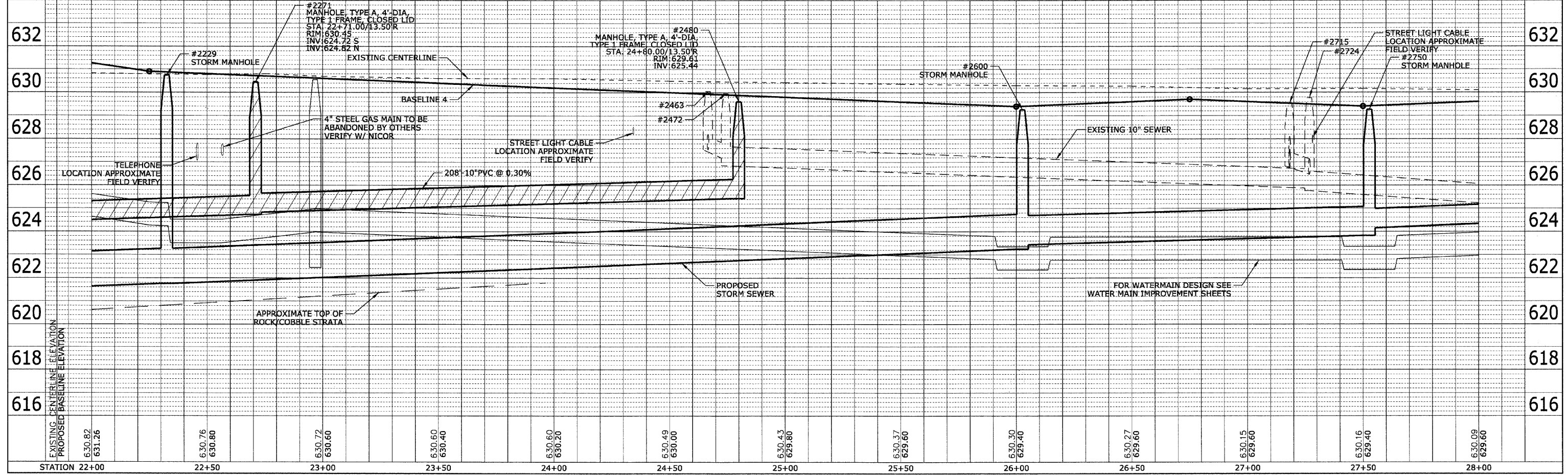
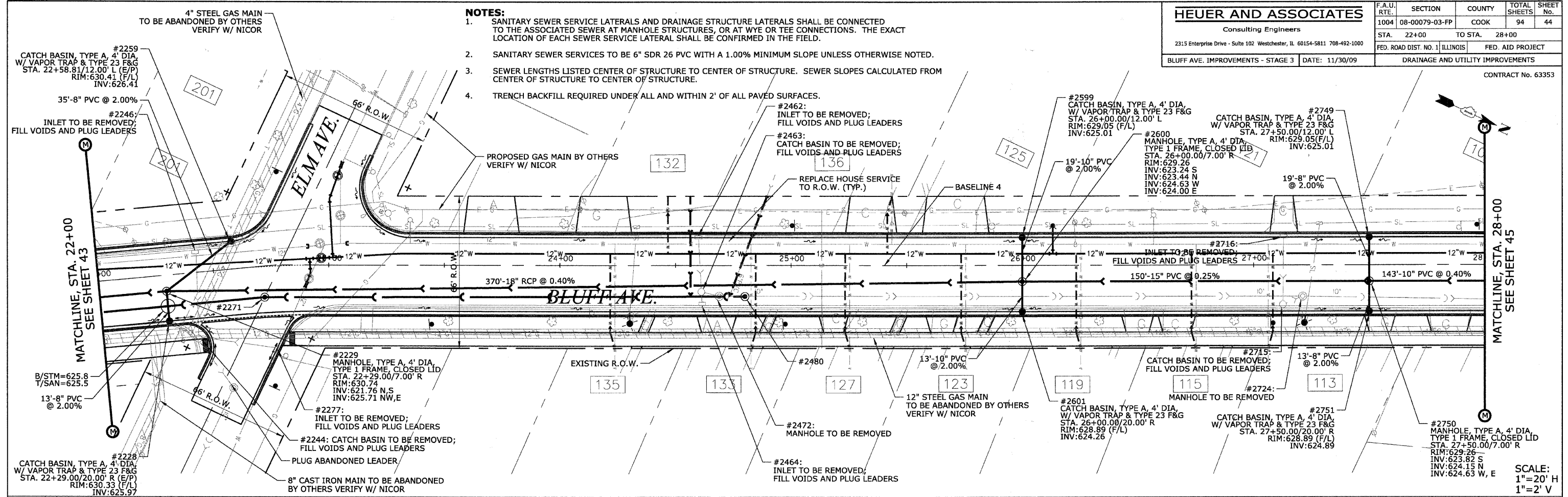
PLAN	DATE	BY
REVISIONS		
NO.	DESCRIPTION	DATE

PROFILE	DATE	BY
REVISIONS		
NO.	DESCRIPTION	DATE



SCALE:  
 1"=20' H  
 1"=2' V

- NOTES:**
- SANITARY SEWER SERVICE LATERALS AND DRAINAGE STRUCTURE LATERALS SHALL BE CONNECTED TO THE ASSOCIATED SEWER AT MANHOLE STRUCTURES, OR AT WYE OR TEE CONNECTIONS. THE EXACT LOCATION OF EACH SEWER SERVICE LATERAL SHALL BE CONFIRMED IN THE FIELD.
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  - SEWER LENGTHS LISTED CENTER OF STRUCTURE TO CENTER OF STRUCTURE. SEWER SLOPES CALCULATED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
  - TRENCH BACKFILL REQUIRED UNDER ALL AND WITHIN 2' OF ALL PAVED SURFACES.



DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 PLAN  
 REVISIONS:  
 NO. DATE DESCRIPTION  
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DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 PROFILE  
 REVISIONS:  
 NO. DATE DESCRIPTION  
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SCALE:  
 1"=20' H  
 1"=2' V







**GENERAL NOTES:**

- TRENCH BACKFILL REQUIRED UNDER ALL AND WITHIN 2' OF PAVED SURFACES.
- EXISTING SEWER LATERALS DISTURBED DURING WATER MAIN INSTALLATION TO BE RESTORED. THE COST IS TO BE INCLUDED IN THE COST OF THE WATER MAIN.
- CONTRACTOR TO VERIFY LOCATION OF UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF PROPOSED IMPROVEMENTS.
- CONTRACTOR SHALL DELIVER ALL SALVAGEABLE APPURTENANCES TO THE DEPARTMENT OF PUBLIC WORKS GARAGE.

REVISIONS	
NAME	DATE
PER IDOT	01-04-10

**HEUER AND ASSOCIATES**

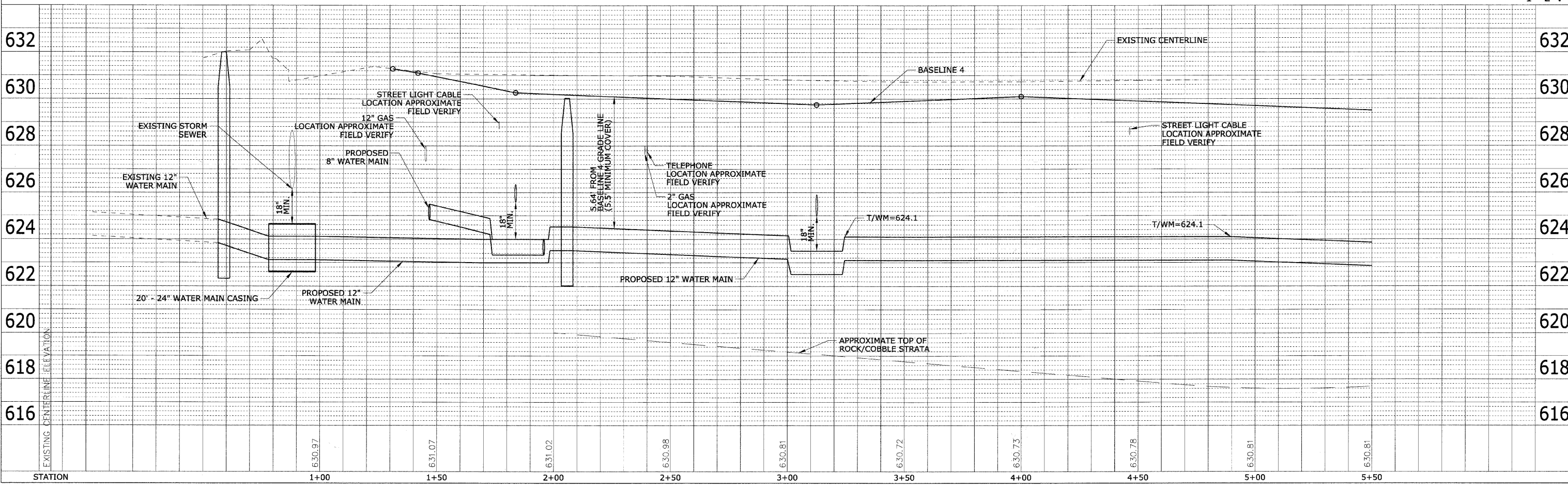
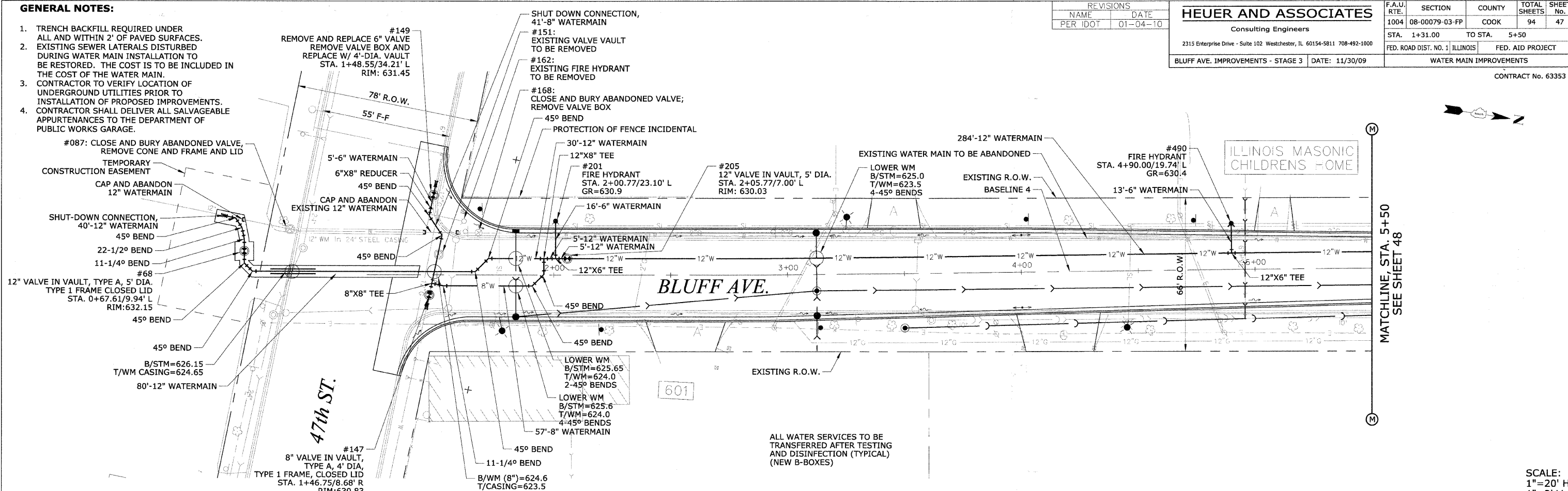
Consulting Engineers  
 2315 Enterprise Drive - Suite 102 Westchester, IL 60154-5811 708-492-1000

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
1004	08-00079-03-FP	COOK	94	47
STA. 1+31.00		TO STA. 5+50		
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT
BLUFF AVE. IMPROVEMENTS - STAGE 3			DATE: 11/30/09	WATER MAIN IMPROVEMENTS

CONTRACT No. 63353

PLAN	DATE	BY
SURVEYED		
NOTE BOOK		
NO.		

PROFILE	DATE	BY
SURVEYED		
GRADES CHECKED		
NO.		



SCALE:  
 1"=20' H  
 1"=2' V













**HEUER AND ASSOCIATES**

Consulting Engineers

2315 Enterprise Drive - Suite 102 Westchester, IL 60154-5811 708-492-1000

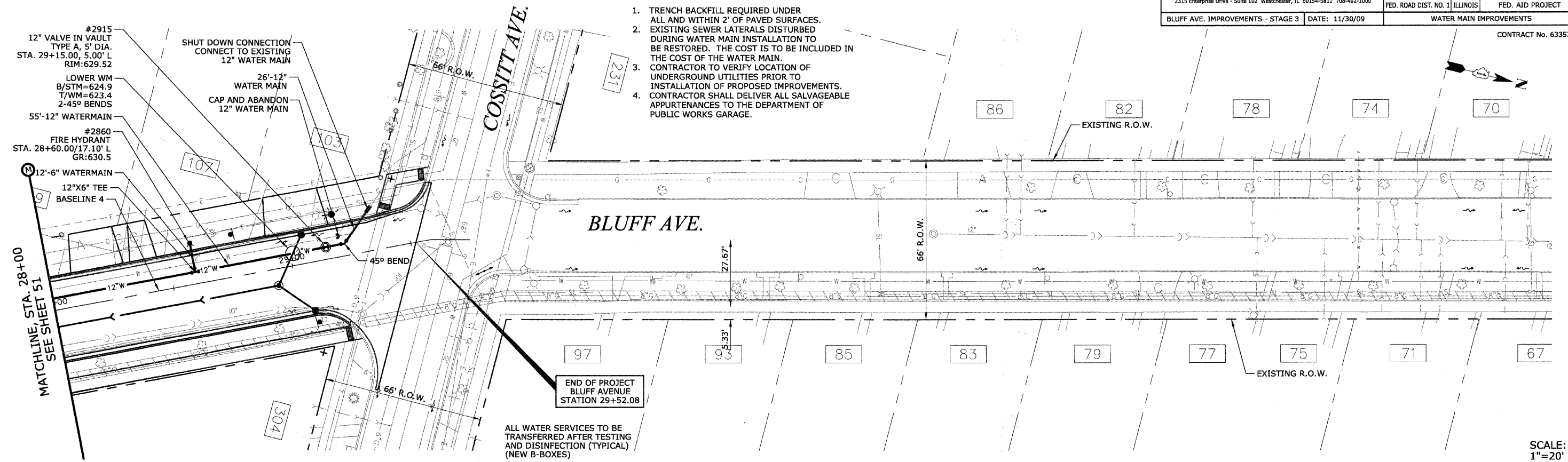
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
1004	08-00079-03-PP	COOK	94	52
STA. 28+00	TO STA. 34+00			
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
BLUFF AVE. IMPROVEMENTS - STAGE 3			DATE: 11/30/09	
			WATER MAIN IMPROVEMENTS	

CONTRACT No. 63353

**GENERAL NOTES:**

1. TRENCH BACKFILL REQUIRED UNDER ALL AND WITHIN 2' OF PAVED SURFACES.
2. EXISTING SEWER LATERALS DISTURBED DURING WATER MAIN INSTALLATION TO BE RESTORED. THE COST IS TO BE INCLUDED IN THE COST OF THE WATER MAIN.
3. CONTRACTOR TO VERIFY LOCATION OF UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF PROPOSED IMPROVEMENTS.
4. CONTRACTOR SHALL DELIVER ALL SALVAGEABLE APPURTENANCES TO THE DEPARTMENT OF PUBLIC WORKS GARAGE.

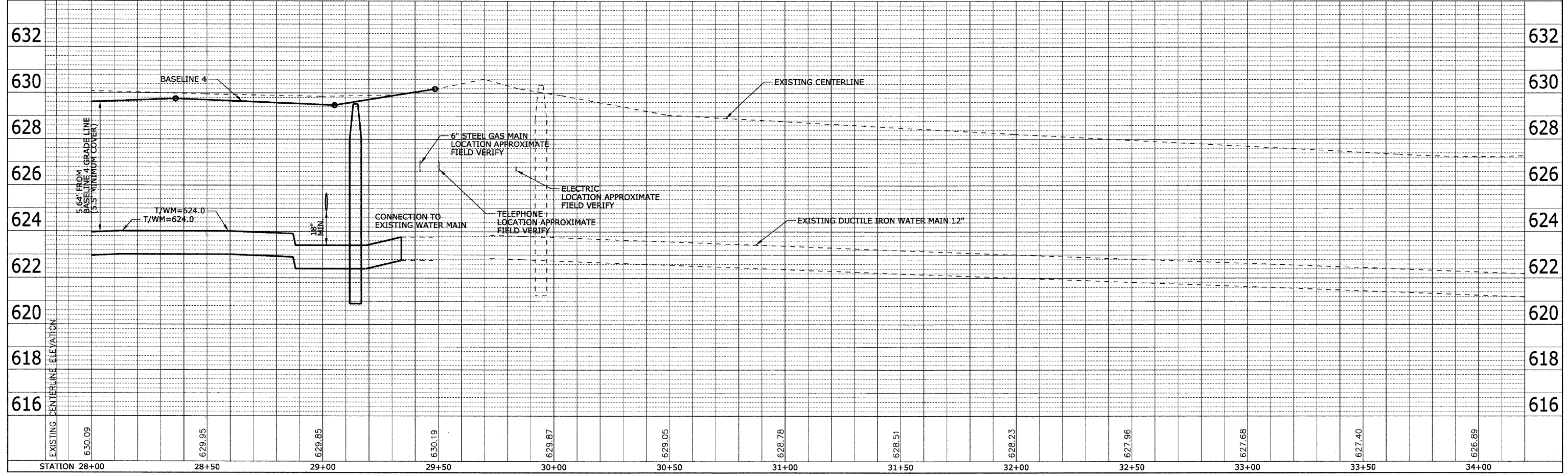
PLAN	DATE	BY
REVISIONS		
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ALL WATER SERVICES TO BE TRANSFERRED AFTER TESTING AND DISINFECTION (TYPICAL) (NEW B-BOXES)

SCALE:  
1"=20' H  
1"=2' V

PROFILE	DATE	BY
REVISIONS		
NO. 1		
NO. 2		
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NO. 100		



**GENERAL NOTES:**

1. TRENCH BACKFILL REQUIRED UNDER ALL AND WITHIN 2' OF PAVED SURFACES.
2. EXISTING SEWER LATERALS DISTURBED DURING WATER MAIN INSTALLATION TO BE RESTORED. THE COST IS TO BE INCLUDED IN THE COST OF THE WATER MAIN.
3. CONTRACTOR TO VERIFY LOCATION OF UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF PROPOSED IMPROVEMENTS.
4. CONTRACTOR SHALL DELIVER ALL SALVAGEABLE APPURTENANCES TO THE DEPARTMENT OF PUBLIC WORKS GARAGE.

REVISIONS	
NAME	DATE
PER IDOT	01-04-10

**HEUER AND ASSOCIATES**

Consulting Engineers

2315 Enterprise Drive - Suite 102 Westchester, IL 60154-5811 708-492-1000

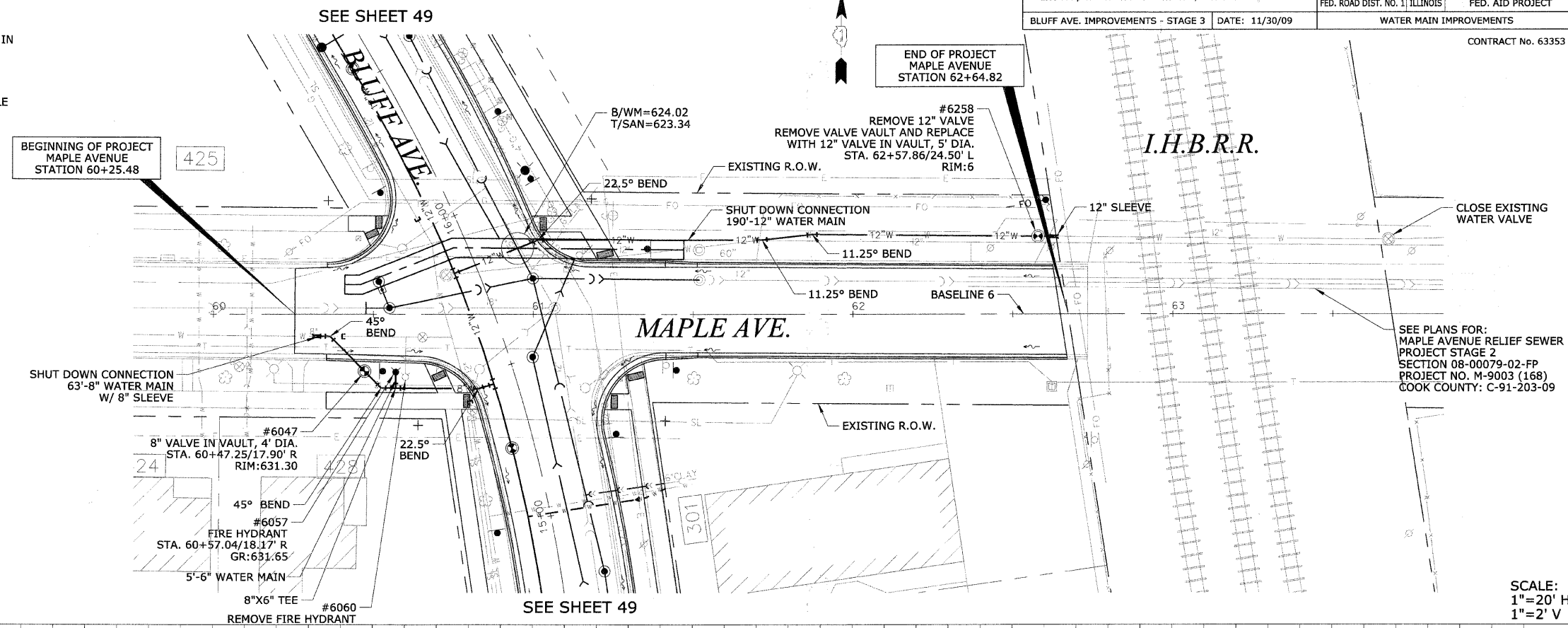
BLUFF AVE. IMPROVEMENTS - STAGE 3 DATE: 11/30/09

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
1004	08-00079-03-FP	COOK	94	53
STA. 61+50		TO STA. 66+00		
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT		
		WATER MAIN IMPROVEMENTS		

CONTRACT No. 63353

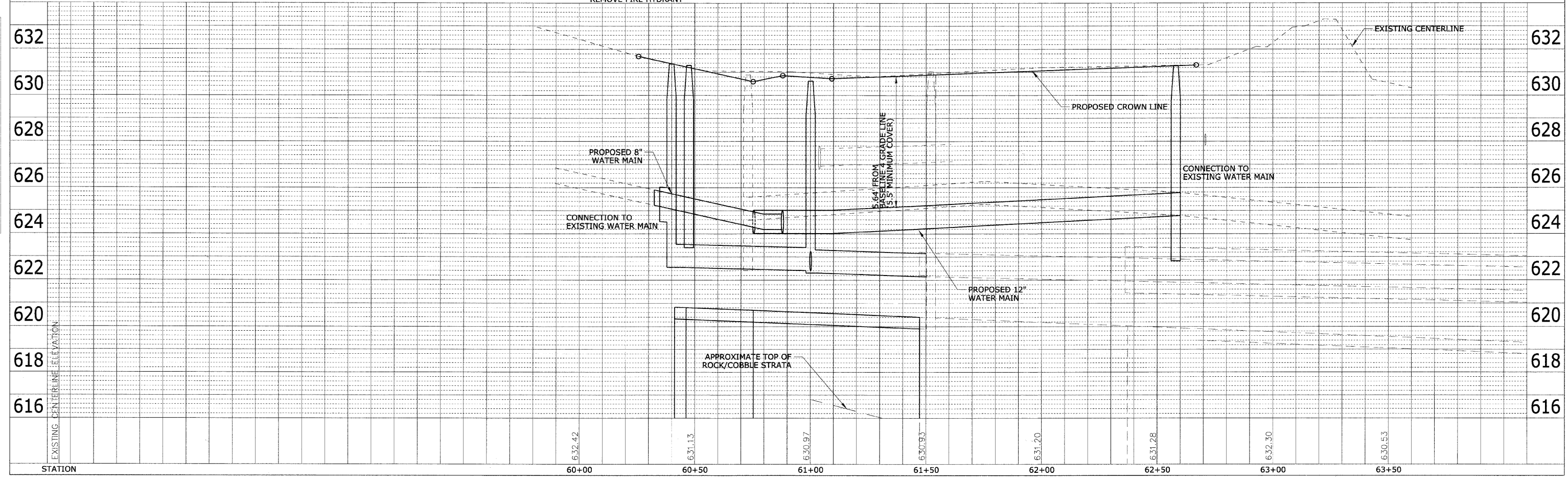
PLAN	DATE
SURVEYED	
ALIGNED	
CHECKED	
BY	
NOTE BOOK NO.	

PROFILE	DATE
SURVEYED	
GRADES CHECKED	
BY	
NOTE BOOK NO.	



SEE PLANS FOR:  
MAPLE AVENUE RELIEF SEWER  
PROJECT STAGE 2  
SECTION 08-00079-02-FP  
PROJECT NO. M-9003 (168)  
COOK COUNTY: C-91-203-09

SCALE:  
1"=20' H  
1"=2' V

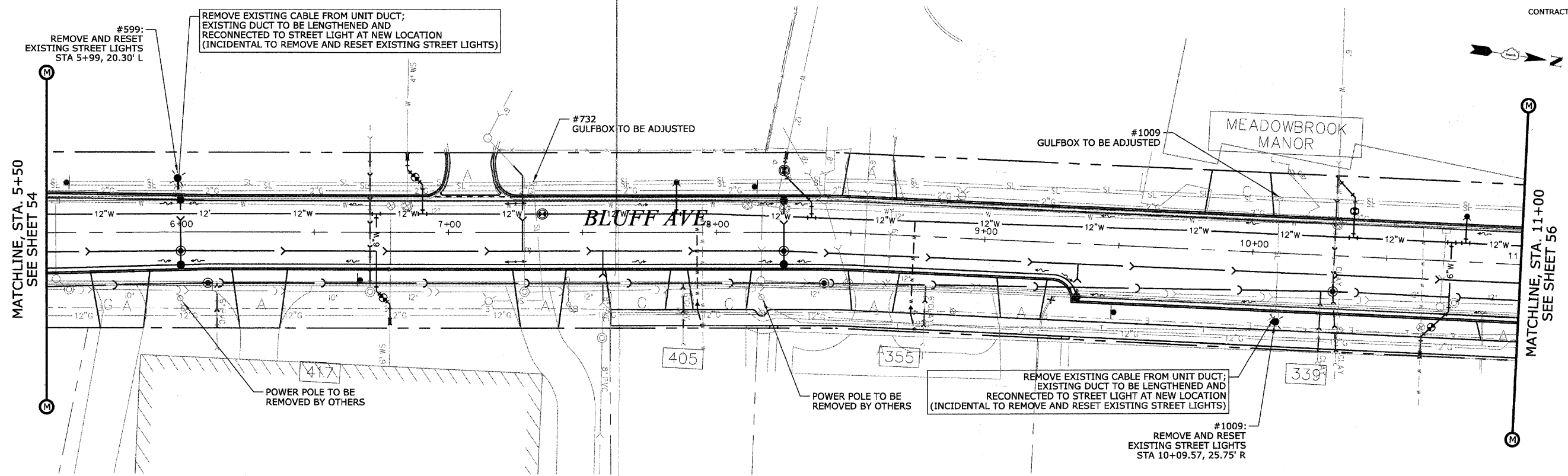


STATION	60+00	60+50	61+00	61+50	62+00	62+50	63+00	63+50
ELEVATION	6.32.42	6.31.13	6.30.97	6.30.93	6.31.20	6.31.28	6.32.30	6.30.53





CONTRACT No. 63353



PLAN	REVISIONS	DATE
NO.	BY	
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	

PROFILE	REVISIONS	DATE
NO.	BY	
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BLUFF AVENUE IMPROVEMENTS**  
**STAGE 3**

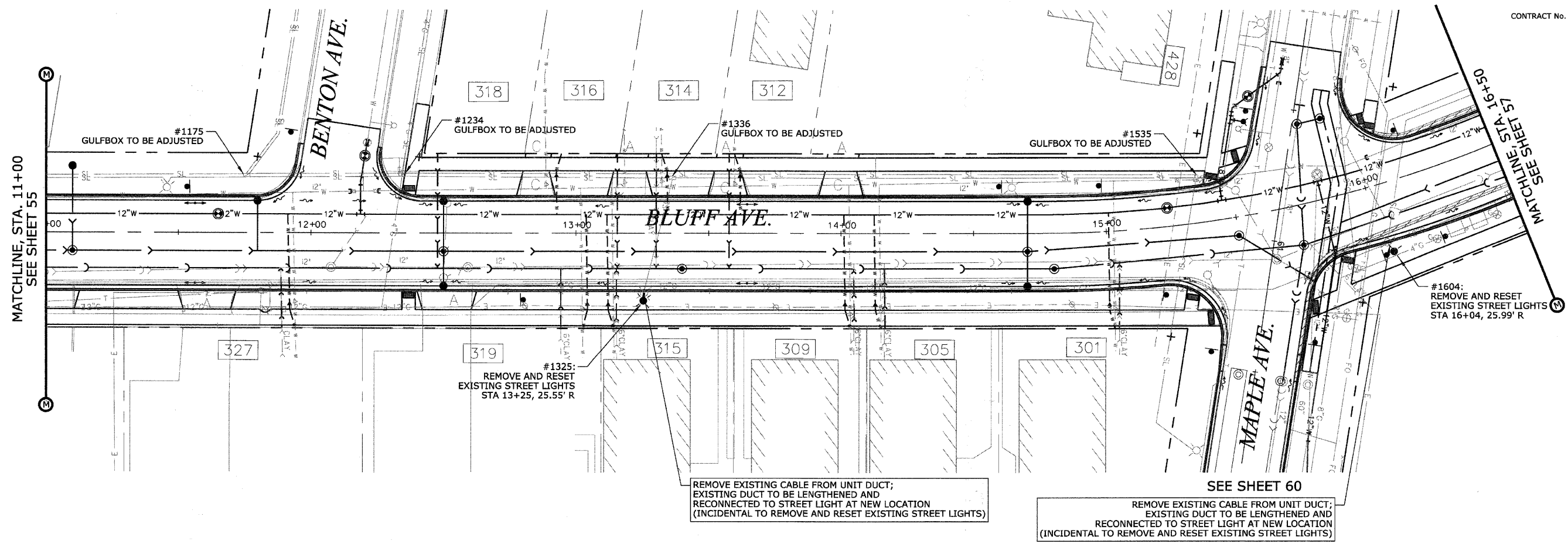
**ELECTRICAL/STREETLIGHTING PLAN**

SCALE: 1" = 20' H (Full Size)  
 1" = 44' H (Tabloid)

DATE 11/30/2009

DRAWN BY H&A  
 CHECKED BY JRH





MATCHLINE, STA. 11+00  
SEE SHEET 55

MATCHLINE, STA. 16+50  
SEE SHEET 57

REMOVE EXISTING CABLE FROM UNIT DUCT;  
EXISTING DUCT TO BE LENGTHENED AND  
RECONNECTED TO STREET LIGHT AT NEW LOCATION  
(INCIDENTAL TO REMOVE AND RESET EXISTING STREET LIGHTS)

REMOVE EXISTING CABLE FROM UNIT DUCT;  
EXISTING DUCT TO BE LENGTHENED AND  
RECONNECTED TO STREET LIGHT AT NEW LOCATION  
(INCIDENTAL TO REMOVE AND RESET EXISTING STREET LIGHTS)

SEE SHEET 60

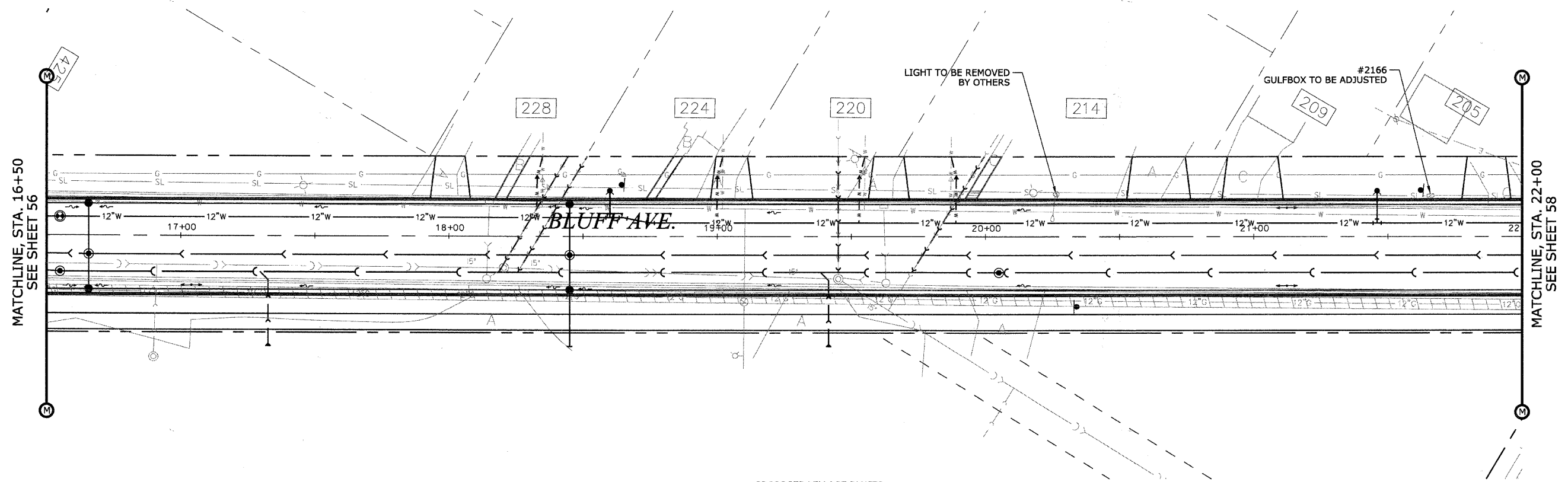
PLAN	DATE
BY	
REVISIONS	
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CADD FILE NAME	
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PROFILE	DATE
BY	
REVISIONS	
NOTED	
GRADES CHECKED	
STRUCTURE	
NOTATIONS	
NO.	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BLUFF AVENUE IMPROVEMENTS**  
**STAGE 3**  
**ELECTRICAL/STREETLIGHTING PLAN**  
 SCALE: 1" = 20' H (Full Size)  
 1" = 44' H (Tabloid)  
 DATE 11/30/2009  
 DRAWN BY H&A  
 CHECKED BY JRH

CONTRACT No. 63353



PROPOSED VILLAGE BLUFFS  
 REDEVELOPMENT PROJECT  
 (UNDER CONSTRUCTION)

**NOTE:**  
 1. NO SCHEDULED ELECTRICAL WORK FOR THIS SECTION OF BLUFF AVENUE IMPROVEMENT PROJECT; THIS SHEET IS INCLUDED FOR CONTINUITY ONLY.

PLAN	REVISIONS	DATE
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	

PROFILE	REVISIONS	DATE
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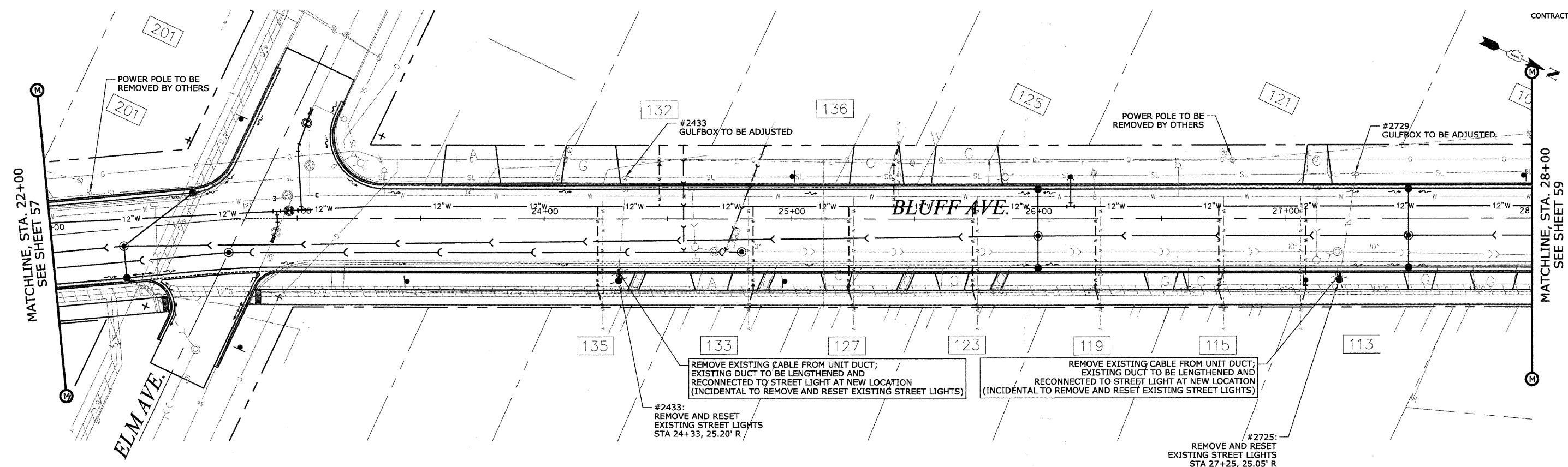
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BLUFF AVENUE IMPROVEMENTS**  
**STAGE 3**  
**ELECTRICAL/STREETLIGHTING PLAN**  
 SCALE: 1" = 20' H (Full Size)  
 1" = 44' H (Tabloid)  
 DATE 11/30/2009  
 DRAWN BY H&A  
 CHECKED BY JRH

CONTRACT No. 63353

PLAN	DESIGNED	DATE
	PLOTTED	
	CHECKED	
	NO. _____	
	DATE _____	

PROFILE	DESIGNED	DATE
	PLOTTED	
	CHECKED	
	NO. _____	
	DATE _____	



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BLUFF AVENUE IMPROVEMENTS**  
**STAGE 3**

**ELECTRICAL/STREETLIGHTING PLAN**

SCALE: 1" = 20' H (Full Size)  
 1" = 44' H (Tabloid)

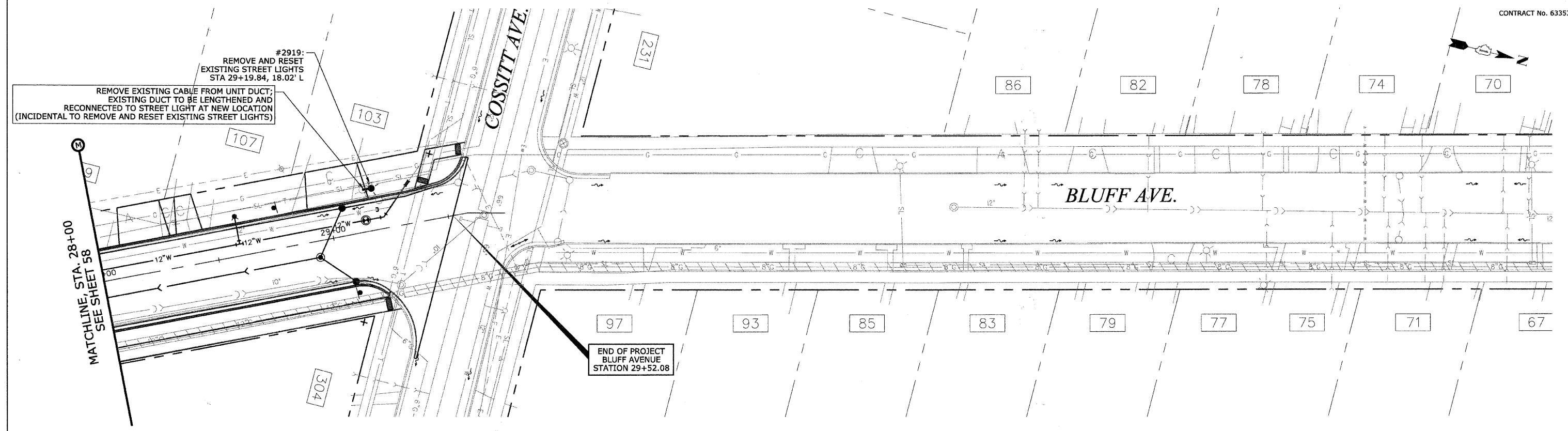
DATE 11/30/2009

DRAWN BY H&A  
 CHECKED BY JRH

CONTRACT No. 63353

PLAN	DESIGNED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	NOTE BOOK	
	CADD FILE NAME	
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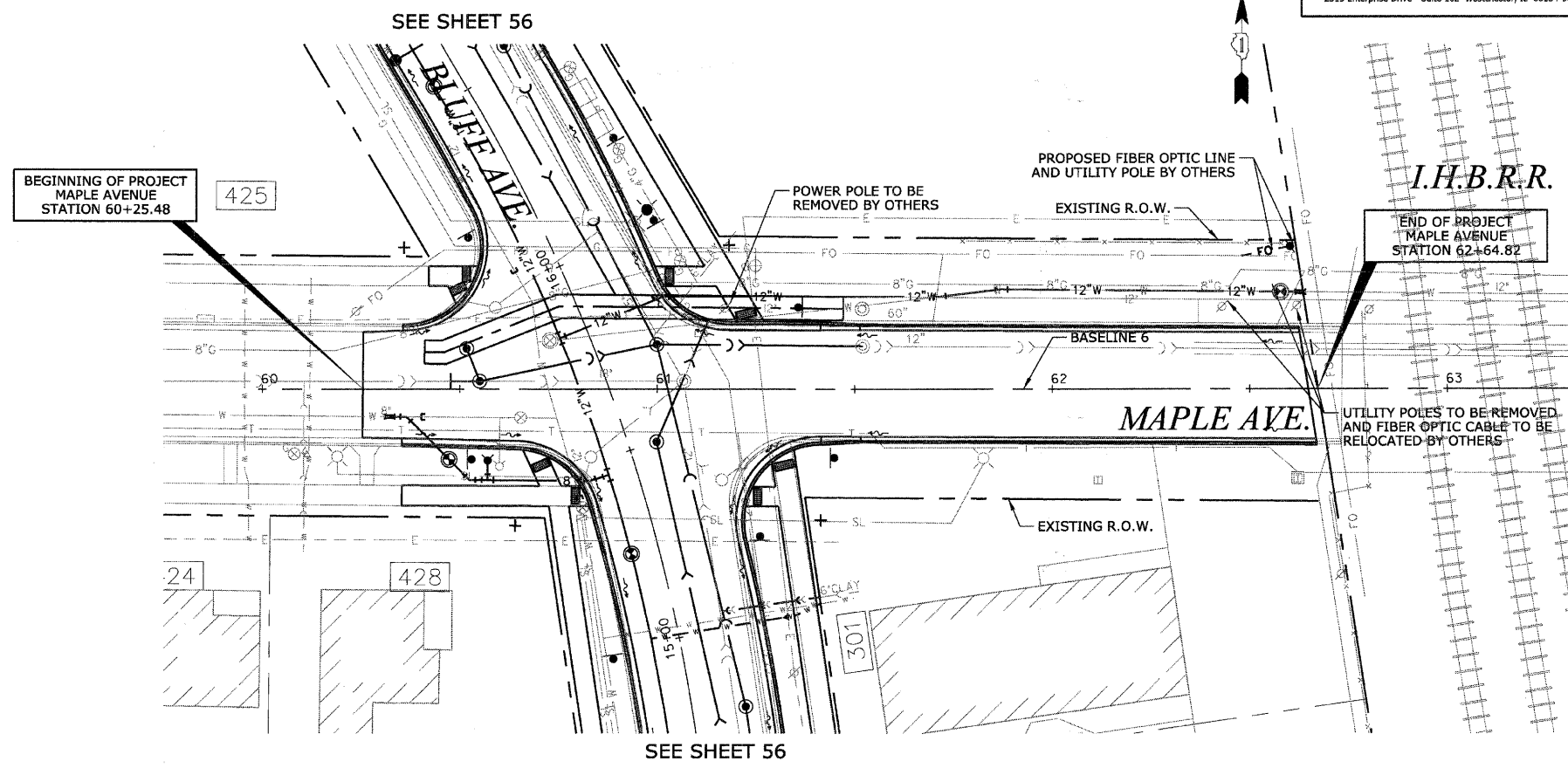
PROFILE	DESIGNED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	NOTE BOOK	
	STRUCTURE	
	NOTATIONS	
	CHKD	
	NO.	



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BLUFF AVENUE IMPROVEMENTS**  
**STAGE 3**  
**ELECTRICAL/STREETLIGHTING PLAN**  
 SCALE: 1" = 20' H (Full Size)  
 1" = 44' H (Tabloid) DRAWN BY H&A  
 DATE 11/30/2009 CHECKED BY JRH

CONTRACT No. 63353



SEE PLANS FOR:  
 MAPLE AVENUE RELIEF SEWER  
 PROJECT STAGE 2  
 SECTION 08-00079-02-FP  
 PROJECT NO. M-9003 (168)  
 COOK COUNTY: C-91-203-09

**NOTE:**  
 1. NO SCHEDULED ELECTRICAL WORK FOR THIS SECTION OF BLUFF AVENUE IMPROVEMENT PROJECT; THIS SHEET IS INCLUDED FOR CONTINUITY ONLY.

PLAN	DATE
NO.	
BY	
CHECKED	
DATE	

PROFILE	DATE
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CHECKED	
DATE	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BLUFF AVENUE IMPROVEMENTS  
 STAGE 3**

**ELECTRICAL/STREETLIGHTING PLAN**

SCALE: 1" = 20' H (Full Size)  
 1" = 44' H (Tabloid)

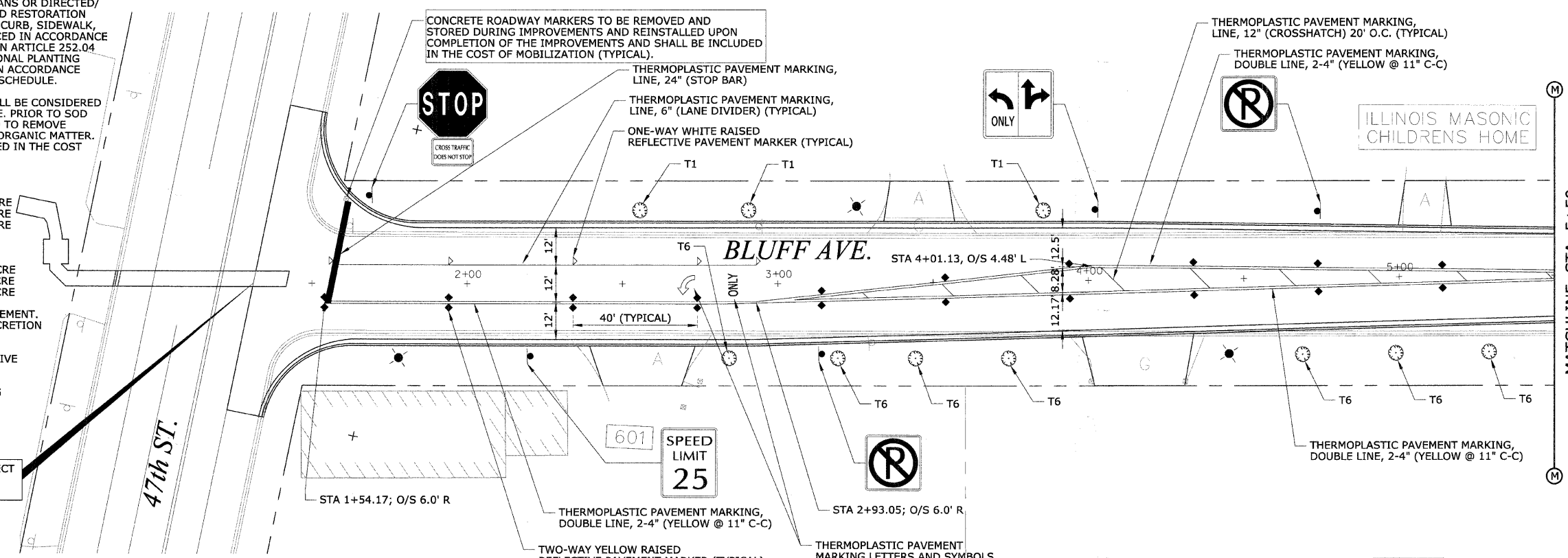
DATE 11/30/2009

DRAWN BY H&A  
 CHECKED BY JRH



**LANDSCAPING NOTES:**

- ALL DISTURBED AREAS SHALL BE RESTORED WITH TOPSOIL AND SALT TOLERANT SOD. LIMITS FOR RESTORATION SHALL BE UP TO THE RIGHT OF WAY LIMITS UNLESS OTHERWISE NOTED.
- UNLESS SPECIFICALLY DIRECTED ON THE PLANS OR DIRECTED/ APPROVED BY THE ENGINEER, PAYMENT FOR SOD RESTORATION SHALL BE LIMITED TO 3 FEET ALONG REPLACED CURB, SIDEWALK, OR DRIVEWAY APRON. SODDING SHALL BE PLACED IN ACCORDANCE WITH THE SEASONAL SCHEDULE AS OUTLINED IN ARTICLE 252.04 OF THE IDOT STANDARD SPECIFICATION. SEASONAL PLANTING SCHEDULE FOR SEEDING SHALL BE OUTLINED IN ACCORDANCE WITH ARTICLE 250.07 OF THE IDOT STANDARD SCHEDULE.
- REQUIRED BUFFALO BOX ADJUSTMENTS SHALL BE CONSIDERED INCLUDED IN THE COST OF THE WATER SERVICE. PRIOR TO SOD INSTALLATION THE SUBGRADE SHALL BE RAKED TO REMOVE EXCESSIVE DEBRIS AND/OR WEEDS OR OTHER ORGANIC MATTER. THIS TOUCHUP SHALL BE CONSIDERED INCLUDED IN THE COST OF THE SODDING LINE ITEM.
- NUTRIENT ALLOWANCE FOR SODDING:  
 NITROGEN FERTILIZER NUTRIENTS 60 LB/ACRE  
 PHOSPHORUS FERTILIZER NUTRIENTS 60 LB/ACRE  
 POTASSIUM FERTILIZER NUTRIENTS 60 LB/ACRE  
 NUTRIENT ALLOWANCE FOR SEEDING:  
 NITROGEN FERTILIZER NUTRIENTS 90 LB/ACRE  
 PHOSPHORUS FERTILIZER NUTRIENTS 90 LB/ACRE  
 POTASSIUM FERTILIZER NUTRIENT 90 LB/ACRE
- ALL SODDING SHALL BE ROLLED AFTER PLACEMENT. SOD STAKING SHALL BE REQUIRED AT THE DISCRETION OF THE ENGINEER.
- ALL LANDSCAPED SHRUB AREAS SHALL RECEIVE WOOD CHIP MULCH, 4" THICKNESS.
- PROVISIONS SHALL BE MADE FOR WATERING AND MAINTENANCE UNTIL THE PLANTING MATERIALS HAVE BECOME ESTABLISHED AS IN ARTICLE 253 OF THE IDOT STANDARD SPECIFICATION.



**PAVEMENT MARKING NOTES:**

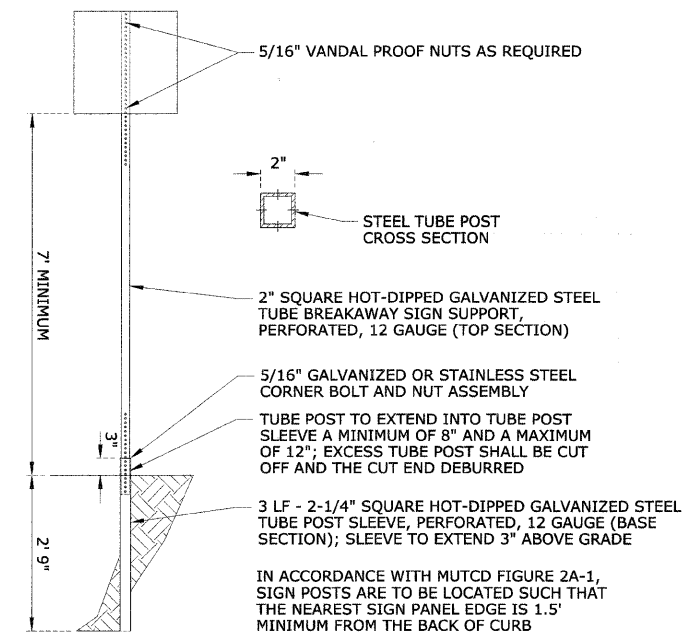
- LOCATION AND PLACEMENT OF ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THAT STIPULATED ON THE PLANS, AS OUTLINED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2003 EDITION, REVISION 1), OR AS INDICATED BY THE ENGINEER
- THERMOPLASTIC PAVEMENT MARKING SHALL BE USED FOR BITUMINOUS SURFACES.
- ALL LINES TO BE WHITE UNLESS OTHERWISE NOTED.
- CENTERLINE SHALL BE YELLOW WITH A 10 FOOT DASH WITH A 30 FOOT SKIP.
- DOTTED LINE SHALL BE WHITE WITH A 2 FOOT DASH WITH A 6 FOOT SKIP.
- RAISED REFLECTIVE MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2" TOWARDS TRAFFIC AS SHOWN AND SPACED AS NOTED IN THE PLANS.

REF #	SIGN DESIGNATION, SIZE	SIGN MESSAGE (SYMBOL)	QTY.
1	R1-1, 30"x30" & R1-3-4, 12"x6"	STOP - 4-WAY	5
2	R1-1, 30"x30" & R1-15, 18"x30"	STOP - CROSS TRAFFIC DOES NOT STOP	4
3	R2-1, 24"x30"	SPEED LIMIT 25	4
4	R3-7L, 30"x30"	LEFT LANE MUST TURN LEFT	1
5	R7-2A, 12"x18"	(NO PARKING) 7 AM TO 9 AM M-F	7
6	R8-3a, 24"x24"	(NO PARKING)	10
7	W3-1, 30"x30"	(STOP AHEAD)	1
8	W14-2, 30"x30"	NO OUTLET	1
TOTAL SIGNS .....			33

PLAN REFERENCE #	IDOT ITEM #	ABBREVIATED DESCRIPTION
T1	A2000320	T-ACER MIY MOR 2-1/2
T2	A2002920	T-CELTIS OCCID 2-1/2
T3	A2006616	T-QUERCUS IMBR 2
T4	A2006716	T-QUERCUS MACR 2
T5	A2008518	T-ULMUS MRTN G TREL M2
T6	B2004520	T-MALUS R J TF 2-1/2
T7	B2006120	T-SYRG PEK M TF 2-1/2
T8	B2006220	T-SYRING RET TF 2-1/2

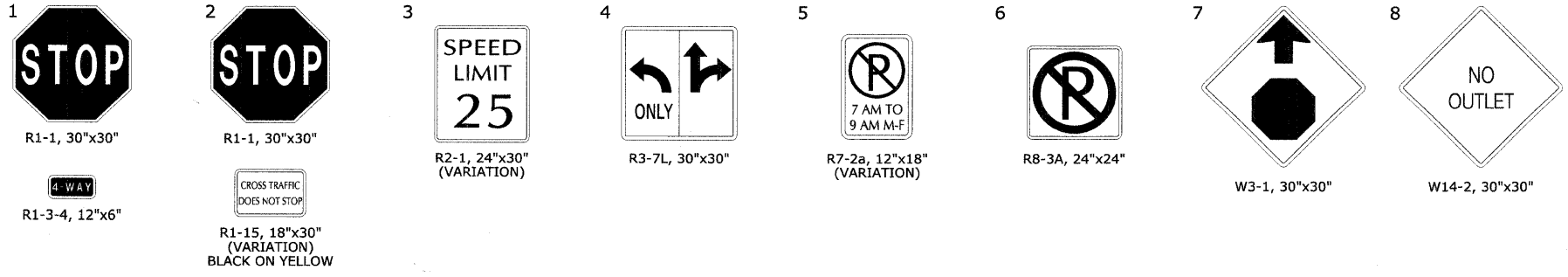
**TRAFFIC SIGNS AND MARKER NOTES:**

- ALL SIGN AND POST REMOVAL REQUIRED SHALL BE CONSIDERED INCLUDED IN THE COST OF EARTH EXCAVATION. SIGN REMOVAL SHALL BE PROPERLY STAGED TO MAINTAIN TRAFFIC CONTROL DURING THE PROJECT. REMOVED SIGNS AND POSTS SHALL REMAIN THE PROPERTY OF THE VILLAGE OF LA GRANGE AND SHALL BE DELIVERED BY THE CONTRACTOR TO A SITE DESIGNATED BY THE VILLAGE.
- LOCATION AND PLACEMENT OF ALL NEW SIGNS SHALL BE IN ACCORDANCE WITH THAT STIPULATED ON THE PLANS, AS OUTLINED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, OR AS INDICATED BY THE ENGINEER.



**SIGN POST INSTALLATION**

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION <b>BLUFF AVENUE IMPROVEMENTS STAGE 3</b>
NAME	DATE	
PER IDOT	01-04-10	<b>PAVEMENT MARKING, SIGNING AND LANDSCAPING</b>  SCALE: 1" = 20' H (Full Size) 1/4" = 44' H (Tabloid) DATE 11/30/2009 DRAWN BY H&A CHECKED BY JRH



DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PLAN: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 NO. \_\_\_\_\_  
 DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 PROFILE: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 NO. \_\_\_\_\_



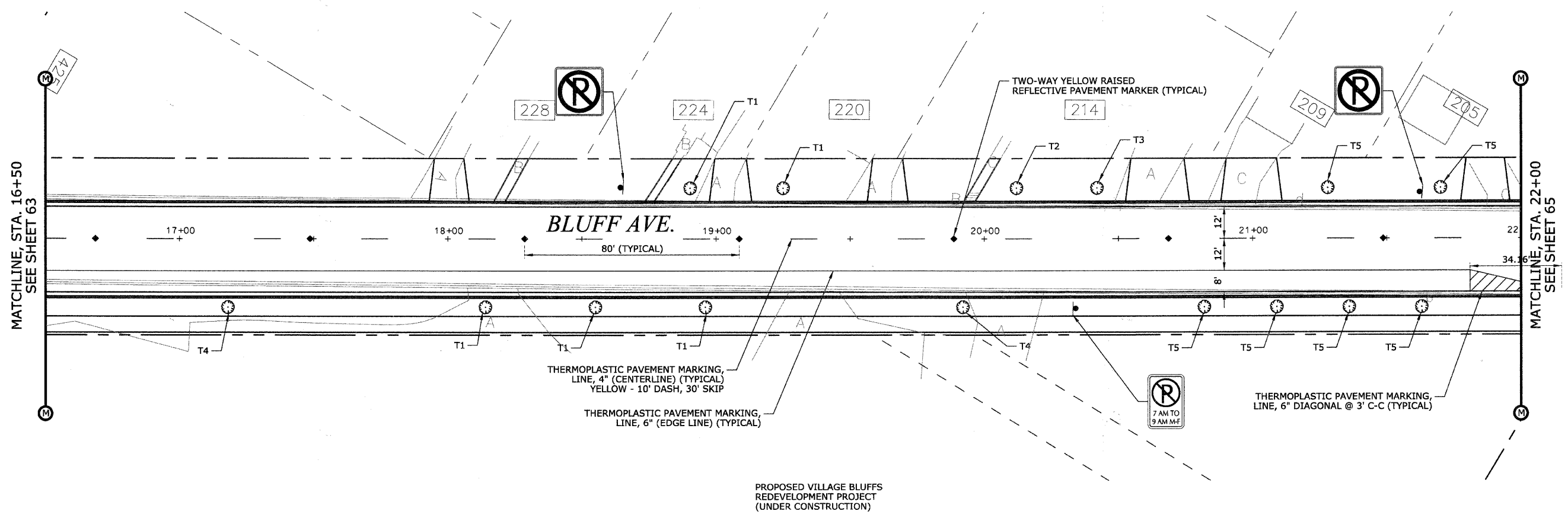


<b>HEUER AND ASSOCIATES</b>				
Consulting Engineers				
2315 Enterprise Drive - Suite 102 Westchester, IL 60154-9811 708-492-1000				
F.A.U. No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
1004	08-00079-03-PP	COOK	94	64
STA.	16+50	TO STA.	22+00	
FED. ROAD DIST. NO. 1   ILLINOIS			FED. AID PROJECT	

CONTRACT No. 63353

PLAN	DESIGNED	DATE
	BY	
	NOTES	
	NO. 1	
	NO. 2	
	NO. 3	
	NO. 4	
	NO. 5	

PROFILE	DESIGNED	DATE
	BY	
	NOTES	
	NO. 1	
	NO. 2	
	NO. 3	
	NO. 4	
	NO. 5	



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BLUFF AVENUE IMPROVEMENTS  
 STAGE 3**

**PAVEMENT MARKING, SIGNING  
 AND LANDSCAPING**

SCALE: 1" = 20' H (Full Size)  
 1/4" = 44' H (Tabloid)

DATE 11/30/2009

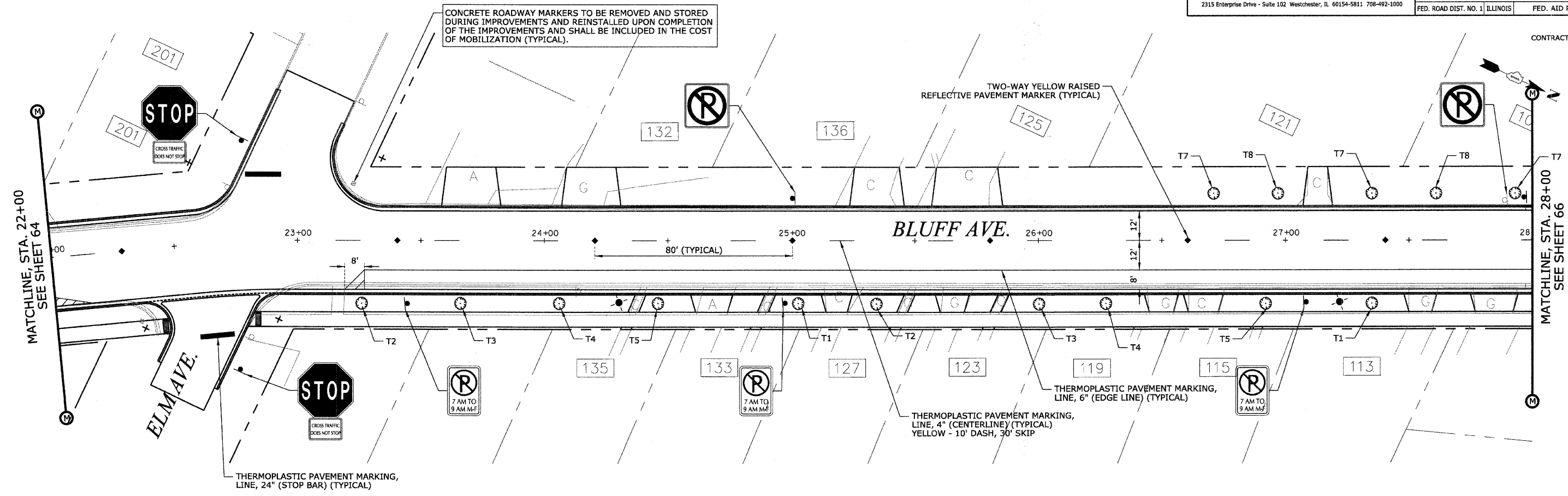
DRAWN BY H&A  
 CHECKED BY JRH



CONTRACT No. 63353

PLAN	DESIGNED	DATE
NO.	BY	
	CHECKED	
	PLOTTED	
	ALIGNED	
	NOTED	
	FILED	
	NO.	

PROFILE	DESIGNED	DATE
NO.	BY	
	CHECKED	
	PLOTTED	
	ALIGNED	
	NOTED	
	FILED	
	NO.	



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BLUFF AVENUE IMPROVEMENTS  
 STAGE 3**

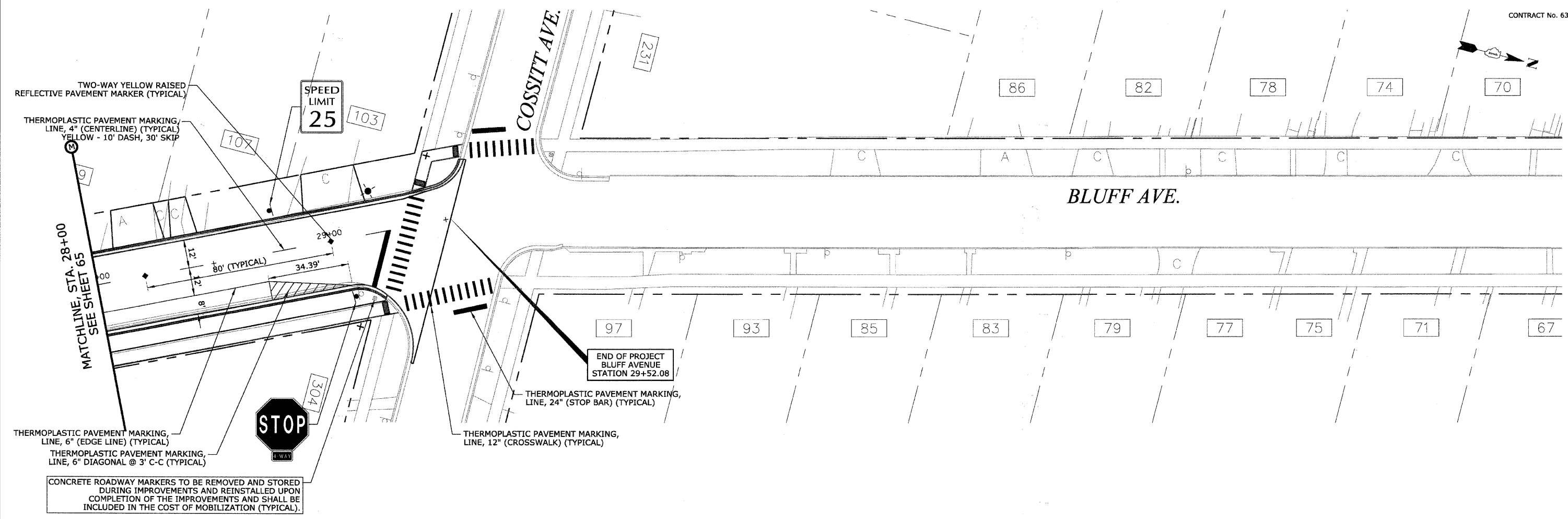
**PAVEMENT MARKING, SIGNING  
 AND LANDSCAPING**

SCALE: 1" = 20' H (Full Size)  
 1" = 44' H (Tabloid)

DATE 11/30/2009

DRAWN BY H&A  
 CHECKED BY JRH

CONTRACT No. 63353



PLAN	REVISIONS	DATE
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	

PROFILE	REVISIONS	DATE
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	

CONCRETE ROADWAY MARKERS TO BE REMOVED AND STORED DURING IMPROVEMENTS AND REINSTALLED UPON COMPLETION OF THE IMPROVEMENTS AND SHALL BE INCLUDED IN THE COST OF MOBILIZATION (TYPICAL).

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BLUFF AVENUE IMPROVEMENTS**  
**STAGE 3**

**PAVEMENT MARKING, SIGNING**  
**AND LANDSCAPING**

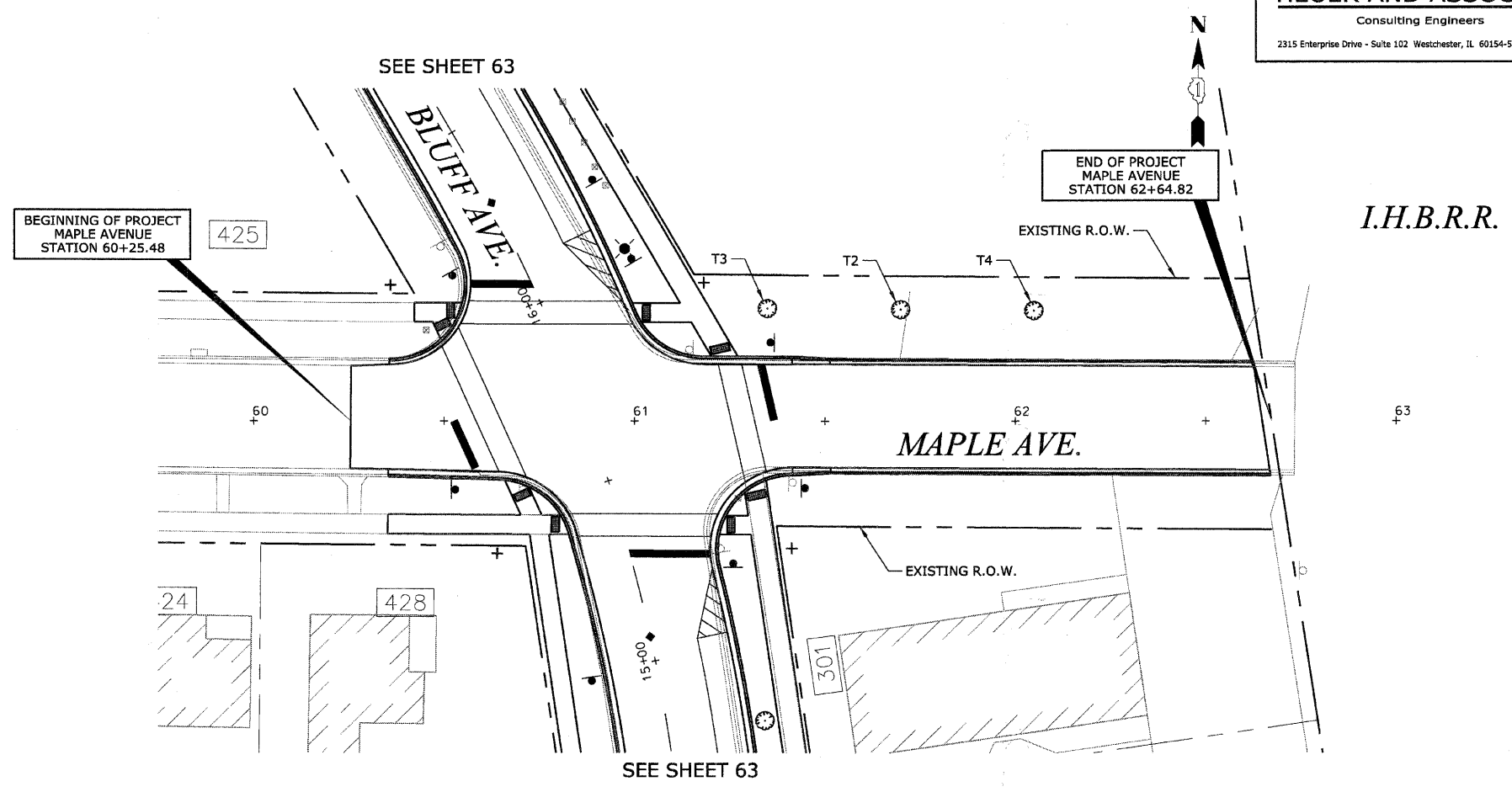
SCALE: 1" = 20' H (Full Size)  
 1" = 44' H (Tabloid)

DATE 11/30/2009

DRAWN BY H&A  
 CHECKED BY JHR

<b>HEUER AND ASSOCIATES</b>				
Consulting Engineers				
2315 Enterprise Drive - Suite 102 Westchester, IL 60154-5811 708-492-1000				
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
1004	08-00079-03-FP	COOK	94	67
STA.	61+50	TO STA.	66+00	
FED. ROAD DIST. NO. 1   ILLINOIS			FED. AID PROJECT	

CONTRACT No. 63353



SEE PLANS FOR:  
 MAPLE AVENUE RELIEF SEWER  
 PROJECT STAGE 2  
 SECTION 08-00079-02-FP  
 PROJECT NO. M-9003 (168)  
 COOK COUNTY: C-91-203-09

PLAN	REVISIONS	BY	DATE
NO.	NO.		
	DESIGNED		
	GRADES CHECKED		
	PLOTTED		
	NOTES CHECKED		
	STRUCTURE NOTATIONS CHECKED		

PROFILE	REVISIONS	BY	DATE
NO.	NO.		
	DESIGNED		
	GRADES CHECKED		
	PLOTTED		
	NOTES CHECKED		
	STRUCTURE NOTATIONS CHECKED		

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BLUFF AVENUE IMPROVEMENTS  
 STAGE 3**

**PAVEMENT MARKING, SIGNING  
 AND LANDSCAPING**

SCALE: 1" = 20' H (Full Size)  
 1/4" = 44' H (Tabloid)

DATE 11/30/2009

DRAWN BY H&A  
 CHECKED BY JRH

# HEUER AND ASSOCIATES

Consulting Engineers

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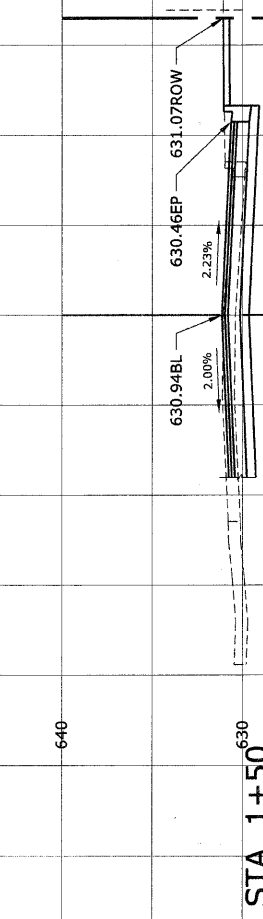
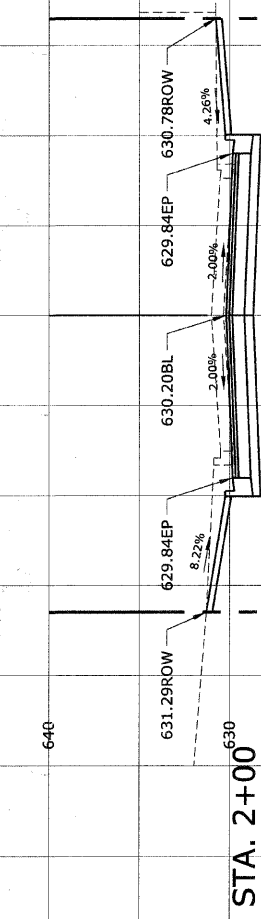
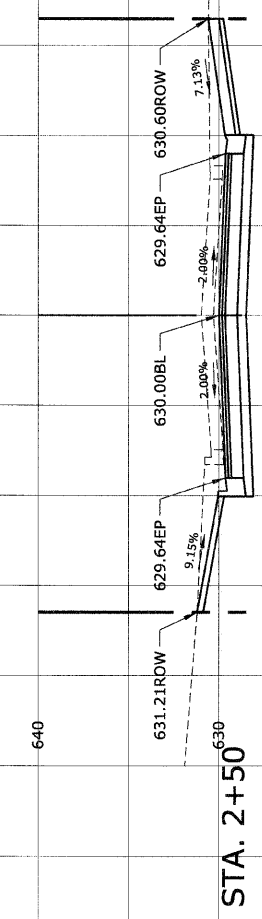
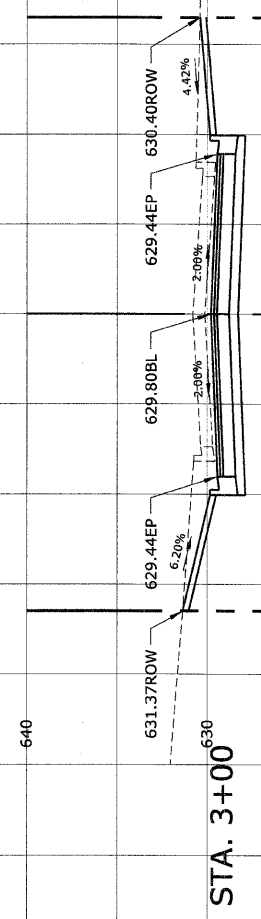
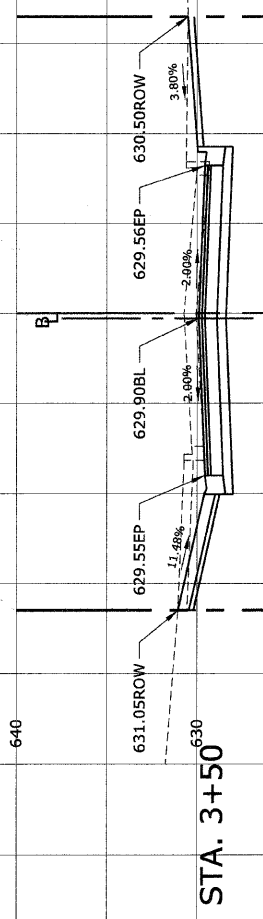
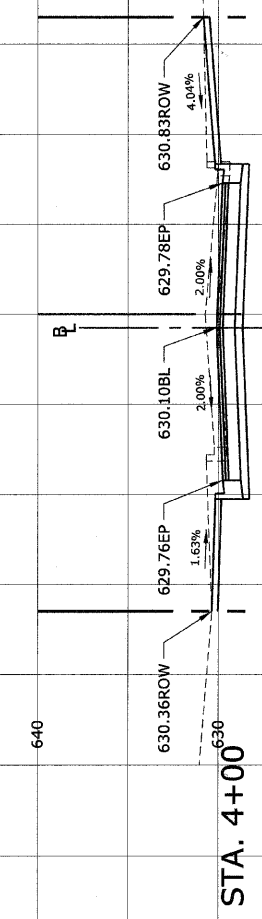
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1004	08-00079-03-FP	COOK	94	68
STA. 1+50	TO STA. 4+00			
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT	

BLUFF AVENUE IMPROVEMENTS - STAGE 3

CONTRACT NO. 63353

FINAL SURVEY	BY	DATE
NO.		
REVISIONS		
DATE		
BY		
NO.		

ORIGINAL SURVEY	BY	DATE
NO.		
REVISIONS		
DATE		
BY		
NO.		



EAST R.O.W.

WEST R.O.W.

60  
50  
40  
30  
20  
10  
-10  
-20  
-30  
-40  
-50  
-60  
R.O.W.  
CENTERLINE

SCALE:  
1" = 10' H  
1" = 5' V



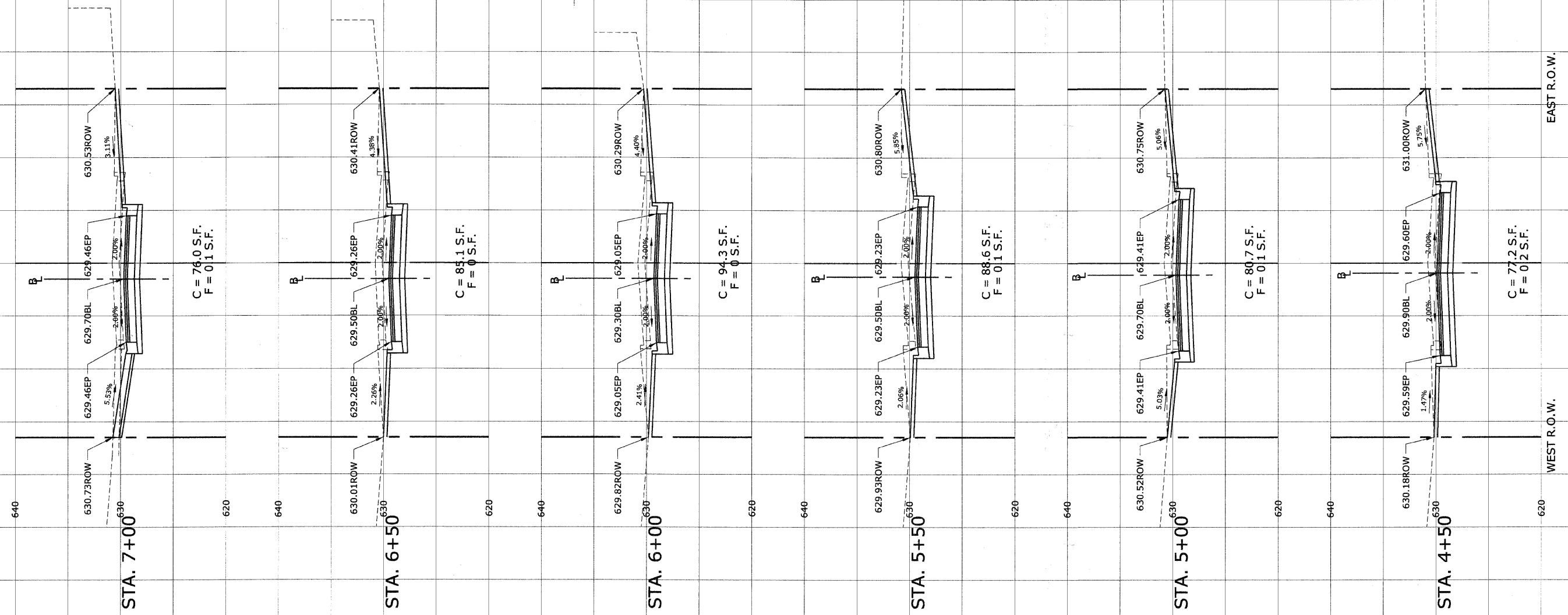
ORIGINAL SURVEY	DATE
SURVEYED	BY
NOTED	
NOTE BOOK	
NO.	

FINAL SURVEY	DATE
SURVEYED	BY
NOTED	
NOTE BOOK	
NO.	

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
1004	08-00079-03-FP	COOK	94	69
STA. 4+50	TO STA. 7+00		FED. AID PROJECT	
FED. ROAD DIST. NO. 1 ILLINOIS		CONTRACT NO. 63353		

BLUFF AVENUE IMPROVEMENTS - STAGE 3



SCALE:  
 1"=10' H  
 1"=5' V

60  
50  
40  
30  
20  
10  
R.O.W. CENTERLINE  
-10  
-20  
-30  
-40  
-50  
-60

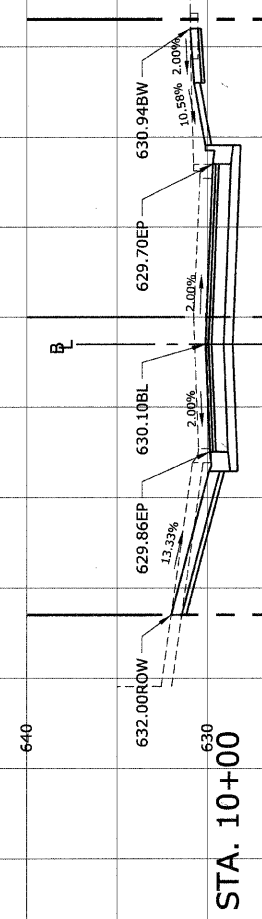
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 SURVEY PLOTTED DATE  
 NOTE BOOK NO.  
 AREAS CHECKED

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

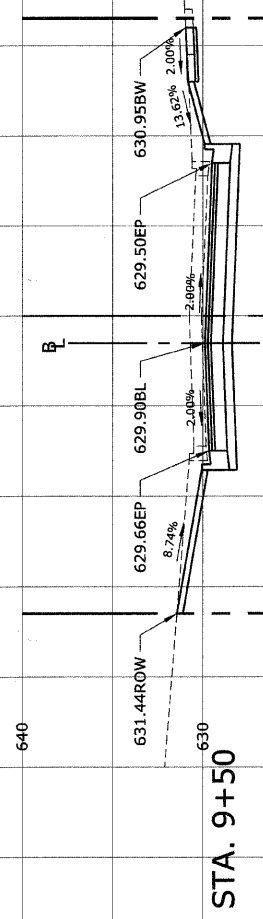
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
1004	08-00079-03-FP	COOK	94	70
STA. 7+50	TO STA. 10+00		FED. AID PROJECT	
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 63353	

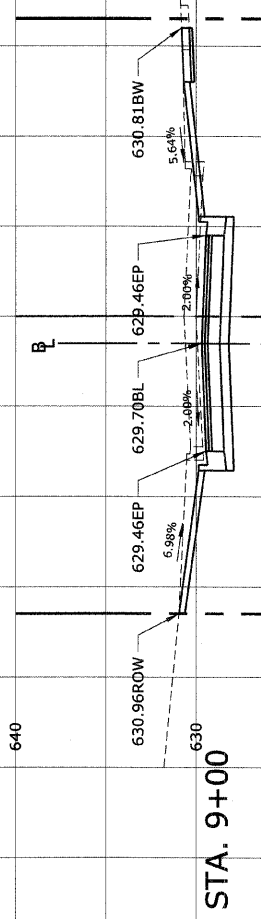
BLUFF AVENUE IMPROVEMENTS - STAGE 3



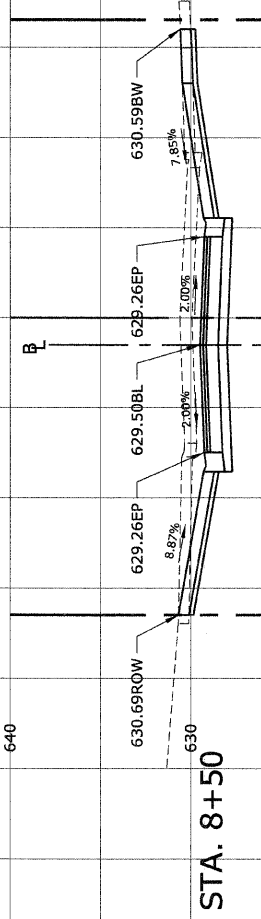
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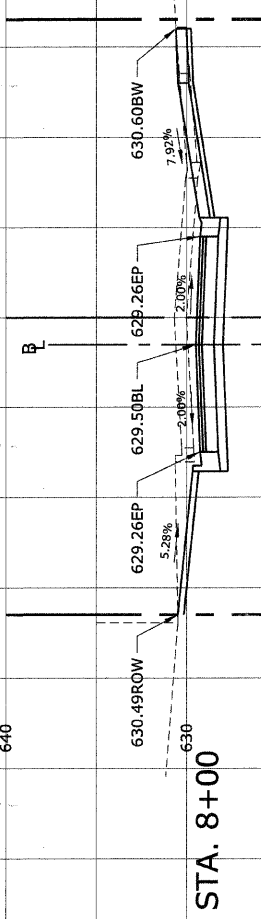
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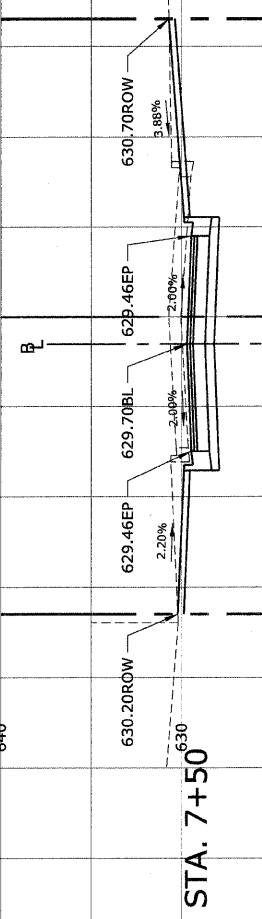
C = 71.2 S.F.  
 F = 0 S.F.



C = 81.0 S.F.  
 F = 0 S.F.



C = 78.0 S.F.  
 F = 0 S.F.



C = 71.9 S.F.  
 F = 0 S.F.

WEST R.O.W. EAST R.O.W.

SCALE:  
 1"=10' H  
 1"=5' V

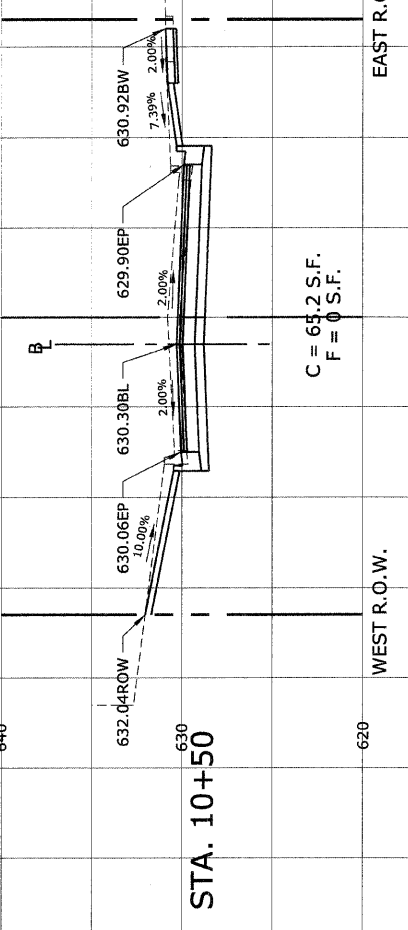
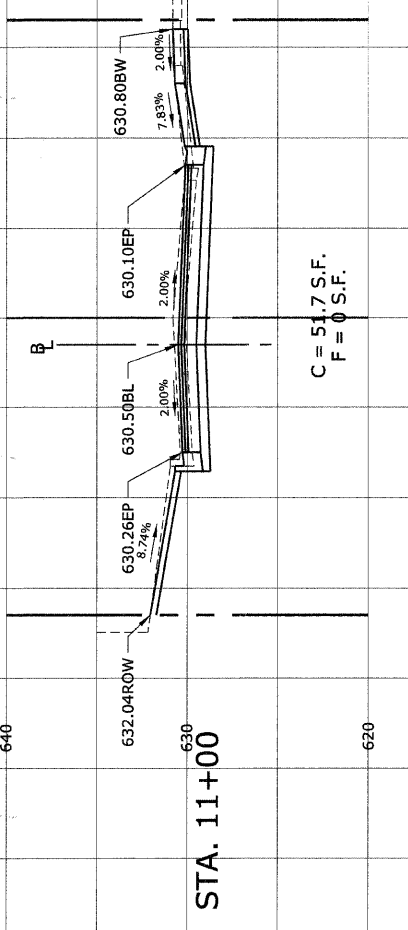
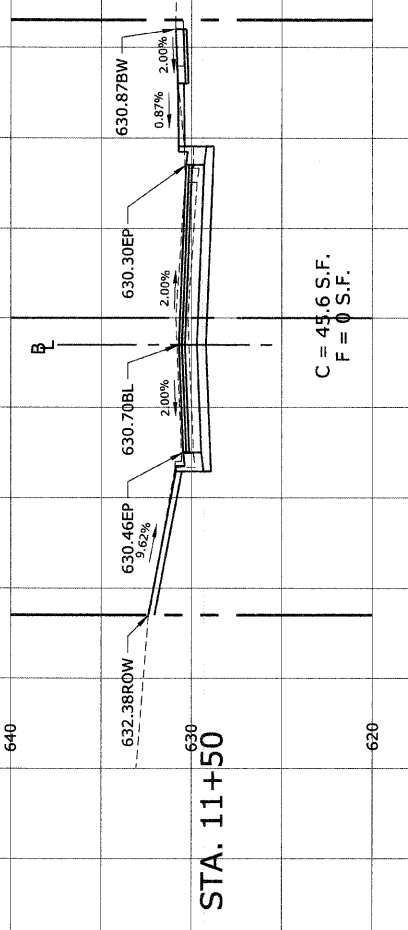
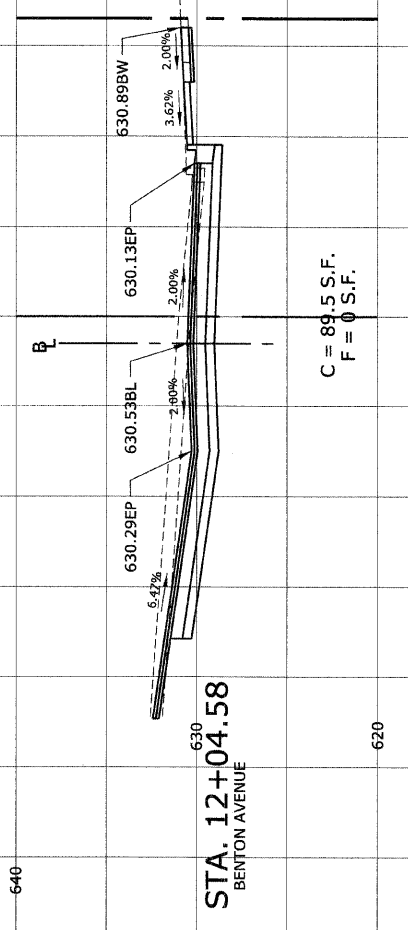
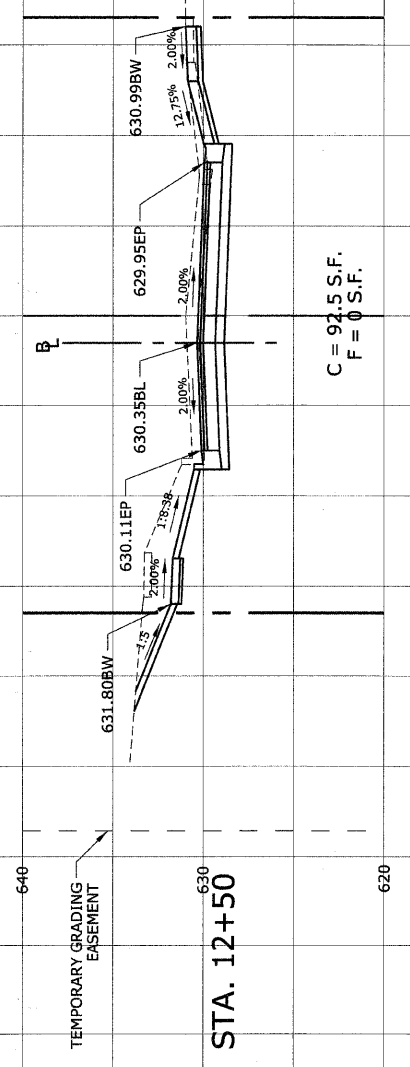
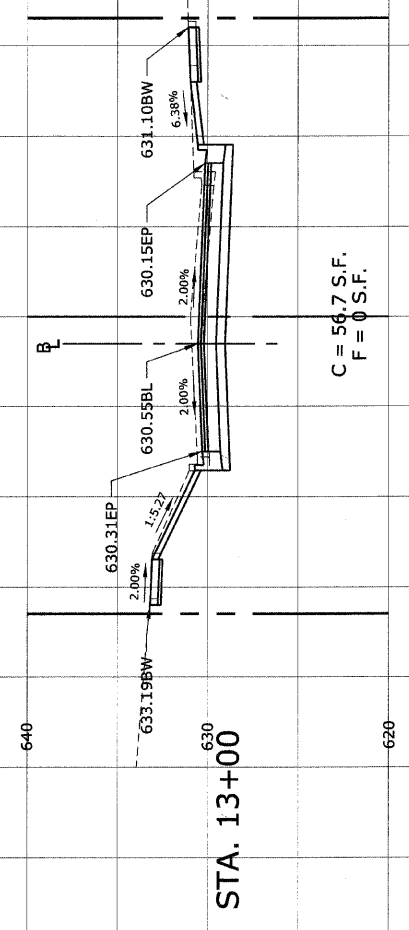
60 50 40 30 20 10 -10 -20 -30 -40 -50 -60 R.O.W. CENTERLINE

BLUFF AVENUE IMPROVEMENTS - STAGE 3

CONTRACT NO. 63353

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

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



SCALE:  
1"=10' H  
1"=5' V

60  
50  
40  
30  
20  
10  
-10  
-20  
-30  
-40  
-50  
-60

R.O.W.  
CENTERLINE

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

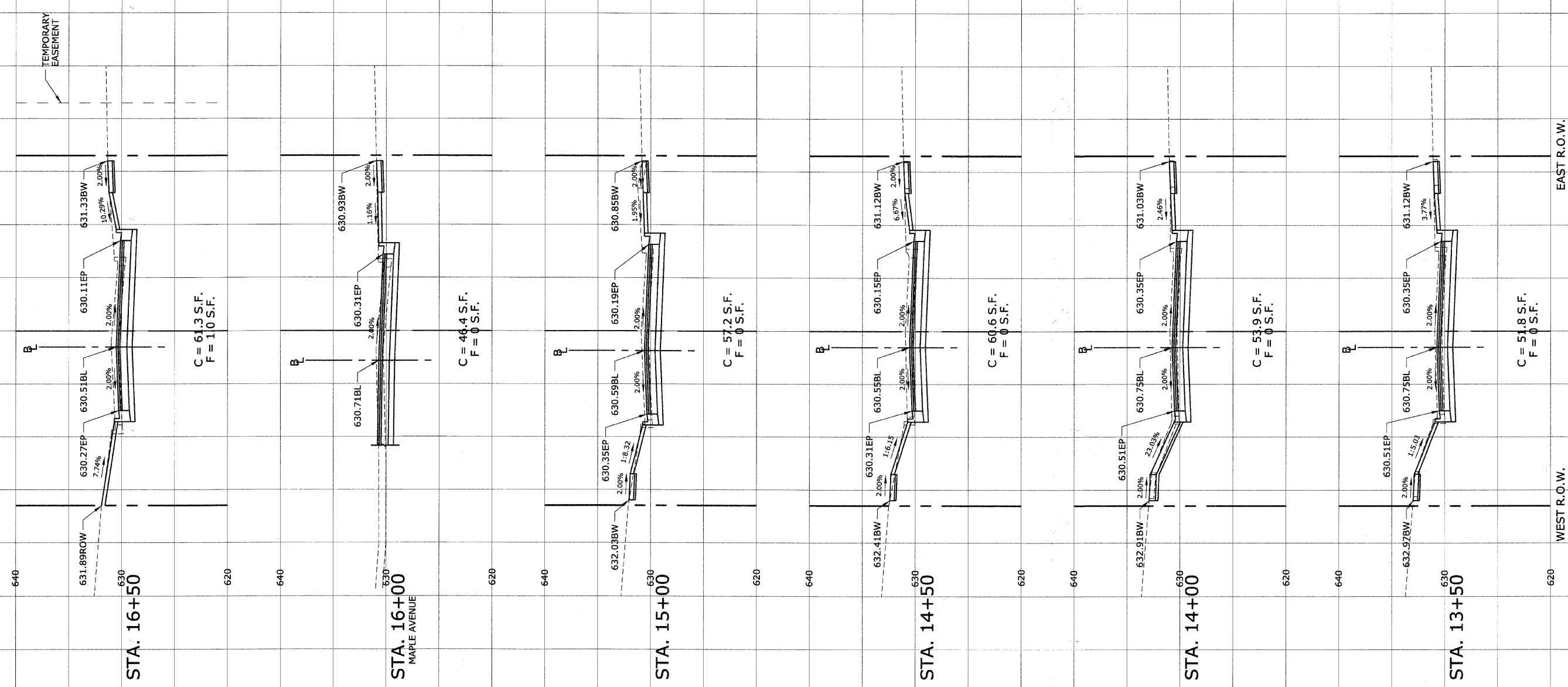
FINAL SURVEY PLOTTED DATE  
 SURVEY PLOTTED DATE  
 NOTE BOOK NO.  
 AREAS CHECKED

**HEUER AND ASSOCIATES**  
 Consulting Engineers  
 2315 Enterprise Drive - Suite 102 Westchester, IL 60154-5811 708-492-1000

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
1004	08-00079-03-PP	COOK	94	72
STA. 13+50		TO STA. 16+50		
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT

BLUFF AVENUE IMPROVEMENTS - STAGE 3

CONTRACT NO. 63353



SCALE:  
 1"=10' H  
 1"=5' V



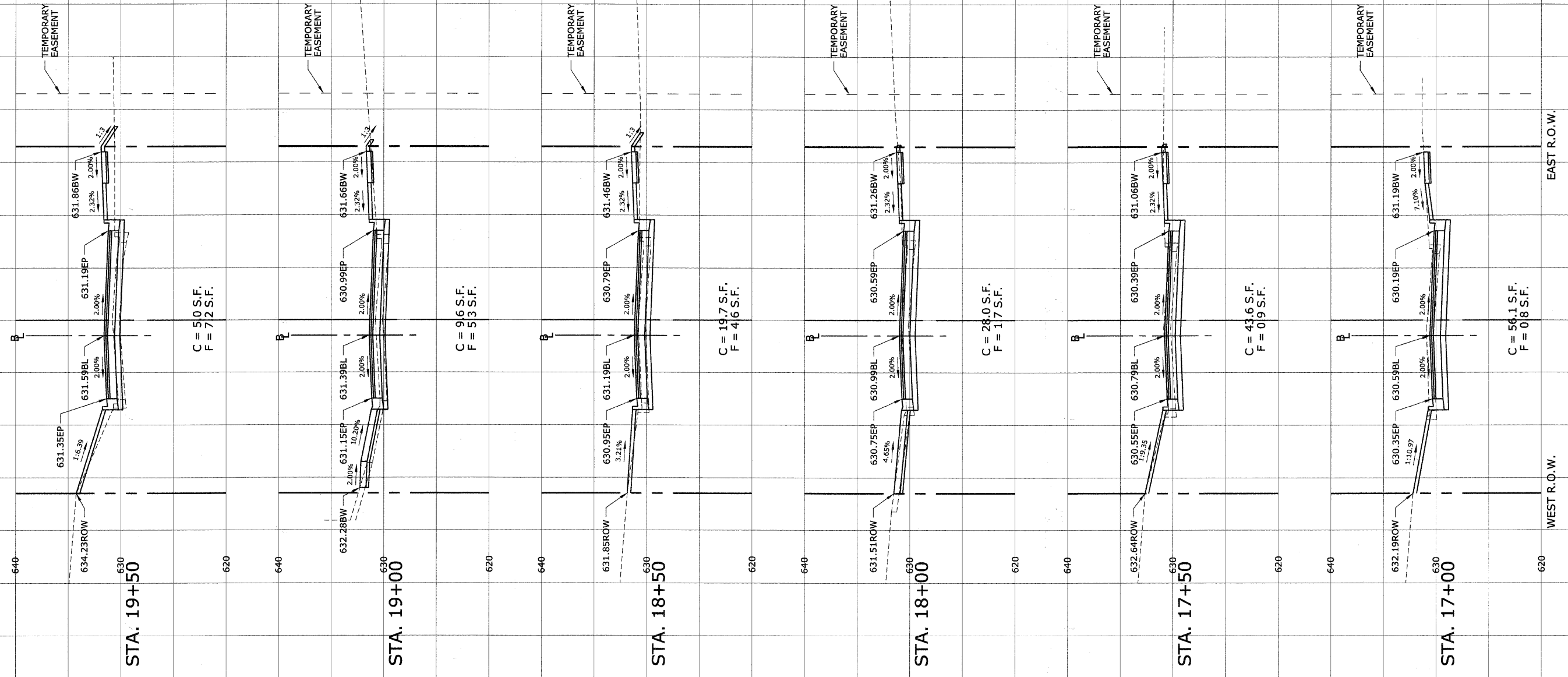
ORIGINAL SURVEY PLOTTED DATE  
 SURVEY PLOTTED DATE  
 NOTE BOOK NO.  
 AREAS CHECKED

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

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
1004	08-00079-03-FP	COOK	94	73
STA. 17+00	TO STA. 19+50		FED. AID PROJECT	
FED. ROAD DIST. NO. 1 ILLINOIS		CONTRACT NO. 63353		

BLUFF AVENUE IMPROVEMENTS - STAGE 3



SCALE:  
 1"=10' H  
 1"=5' V

# HEUER AND ASSOCIATES

Consulting Engineers

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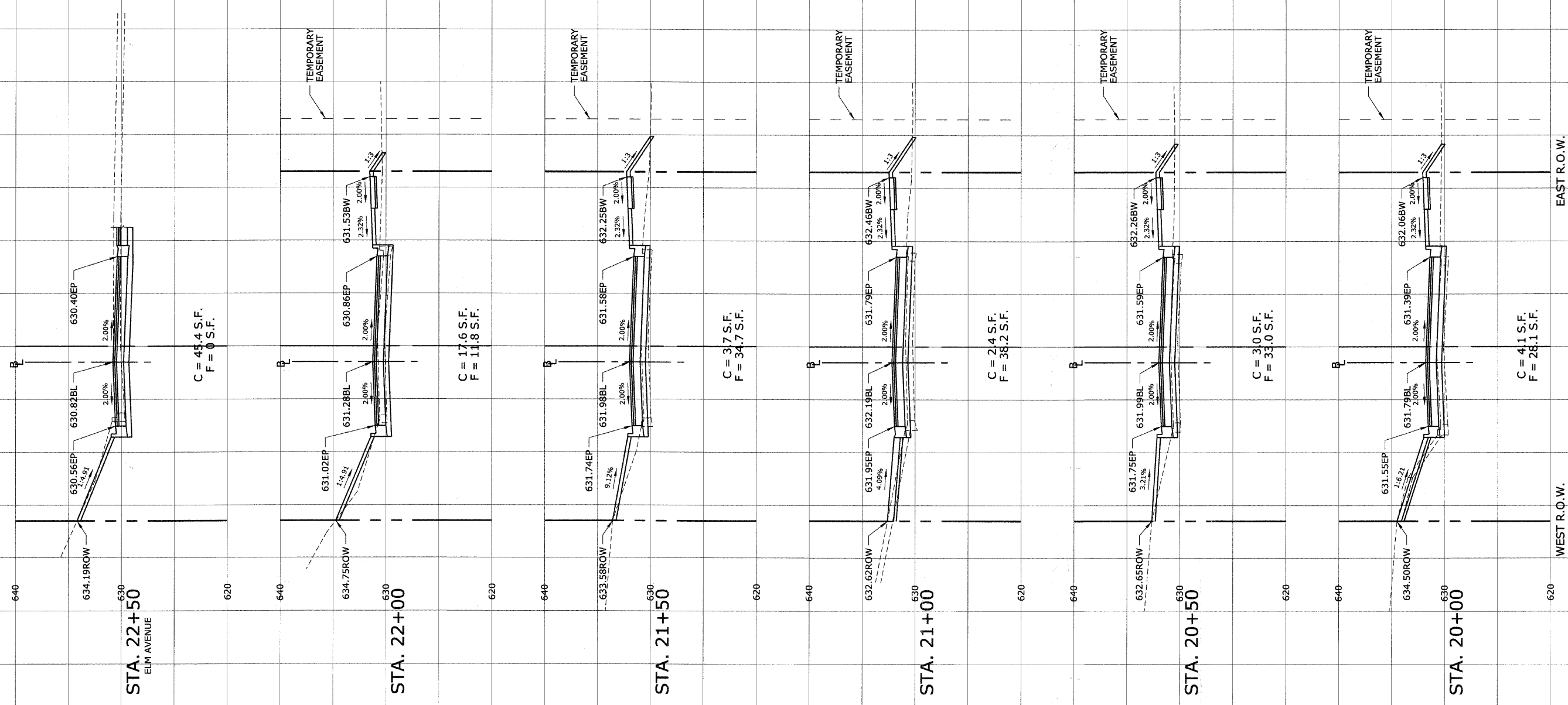
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1004	08-00079-03-FP	COOK	94	74
STA. 20+00	TO STA. 22+50			
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT		

BLUFF AVENUE IMPROVEMENTS - STAGE 3

CONTRACT NO. 63353

FINAL SURVEY	DATE
NOTED	
PLOTTED	
BY	
NO.	

ORIGINAL SURVEY	DATE
NOTED	
PLOTTED	
BY	
NO.	



SCALE:  
1"=10' H  
1"=5' V

# HEUER AND ASSOCIATES

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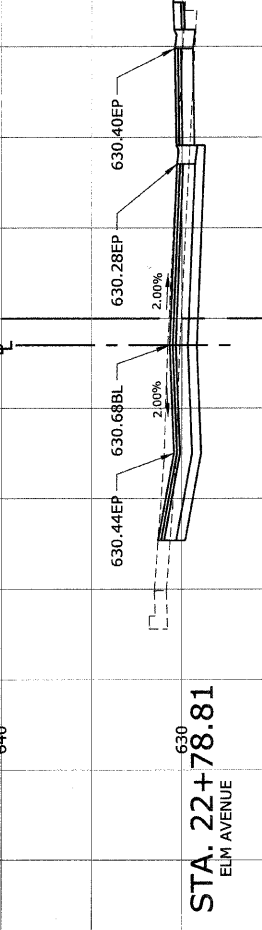
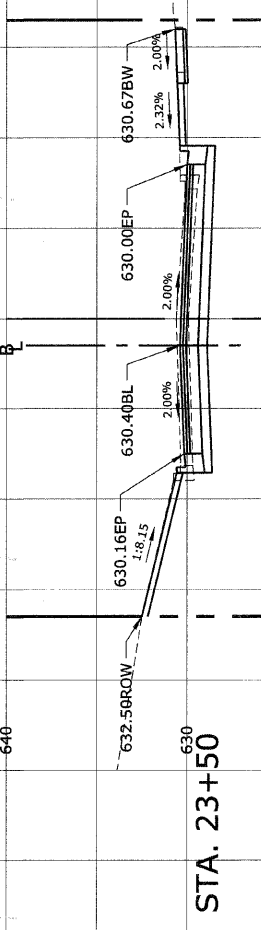
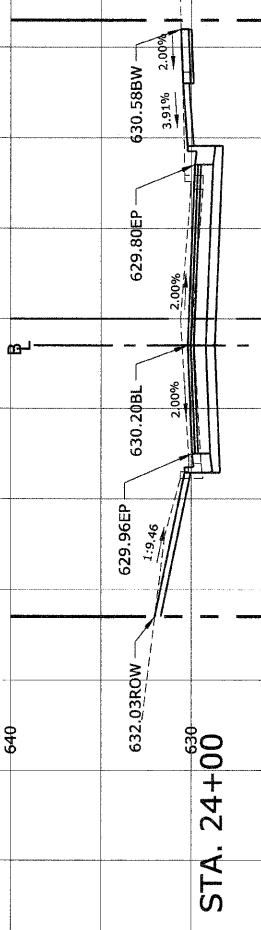
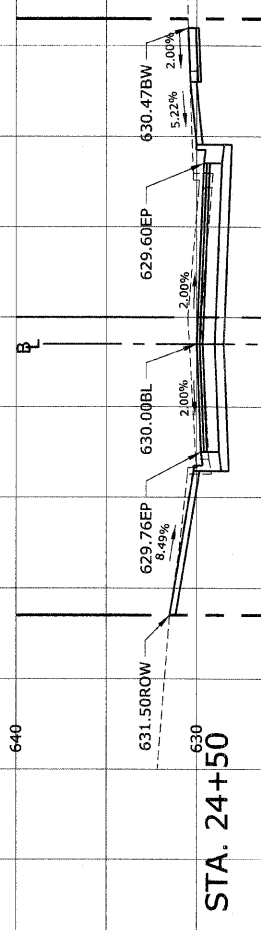
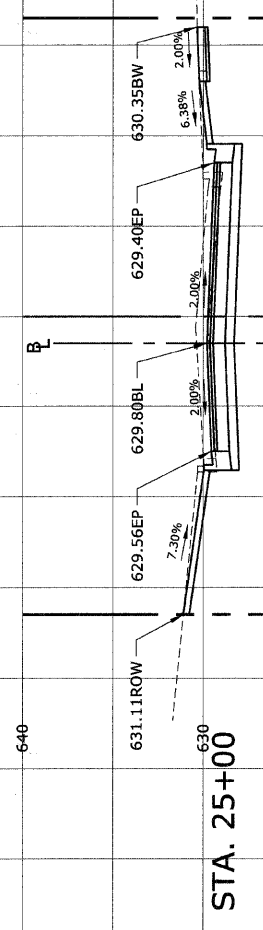
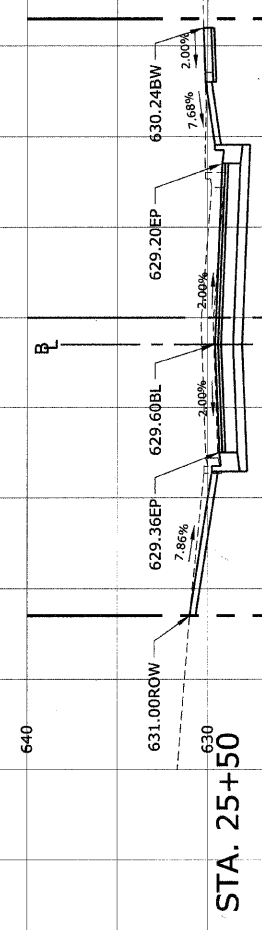
F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
1004	08-00079-03-FP	COOK	94	75
STA. 22+78.81	TO STA. 25+50			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

BLUFF AVENUE IMPROVEMENTS - STAGE 3

CONTRACT NO. 63353

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

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



EAST R.O.W.

WEST R.O.W.

60  
50  
40  
30  
20  
10  
-10  
-20  
-30  
-40  
-50  
-60

R.O.W.  
CENTERLINE

SCALE:  
1"=10' H  
1"=5' V

# HEUER AND ASSOCIATES

Consulting Engineers

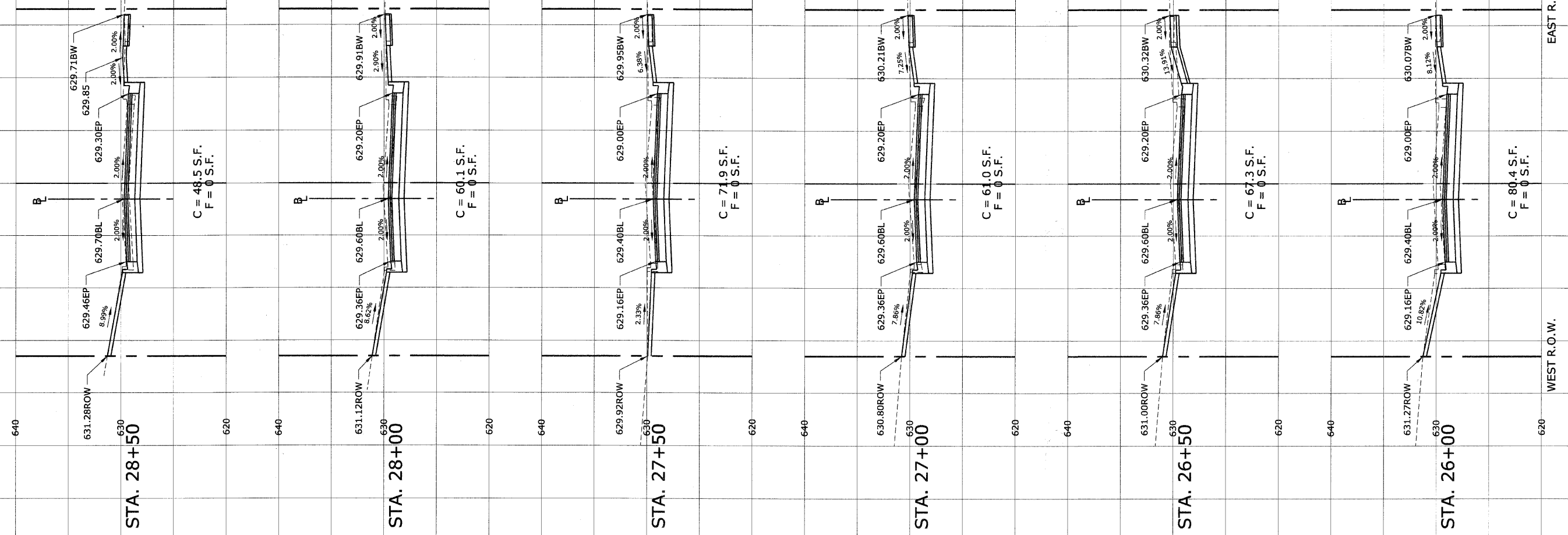
2315 Enterprise Drive - Suite 102 Westchester, IL 60154-5811 708-492-1000

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
1004	08-00079-03-FP	COOK	94	76
STA. 26+00	TO STA. 28+50			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		CONTRACT NO. 63353

BLUFF AVENUE IMPROVEMENTS - STAGE 3

FINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



SCALE:  
1"=10' H  
1"=5' V



# HEUER AND ASSOCIATES

Consulting Engineers

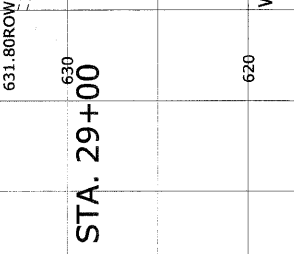
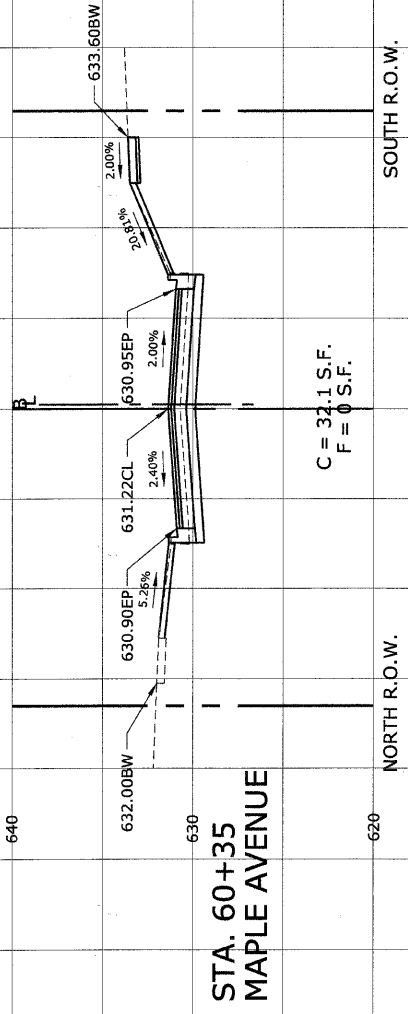
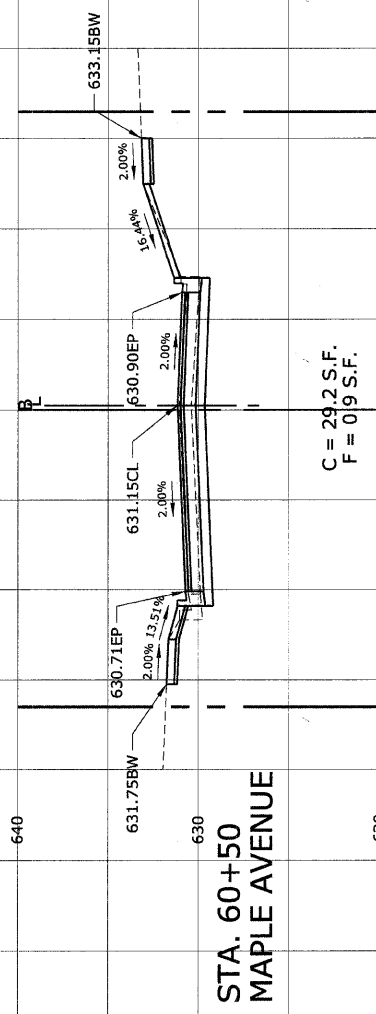
2315 Enterprise Drive - Suite 102 Westchester, IL 60154-5811 708-492-1000

F.A.U. No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
1004	08-00079-03-FP	COOK	94	77
STA. 29+00	TO STA. 60+50			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		CONTRACT NO. 63353

BLUFF AVENUE IMPROVEMENTS - STAGE 3

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

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



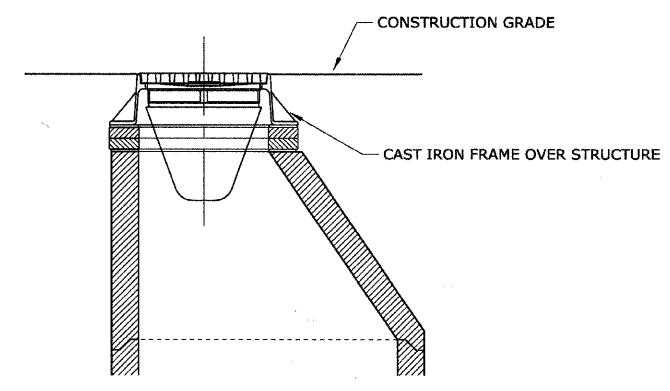
SCALE:  
1"=10' H  
1"=5' V



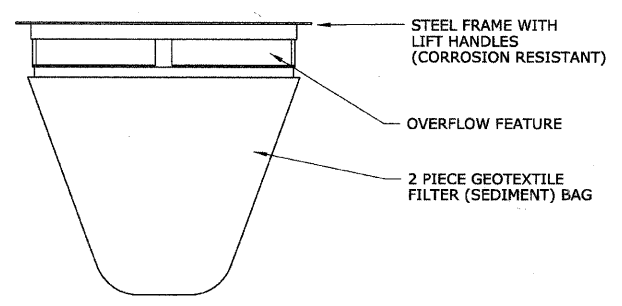
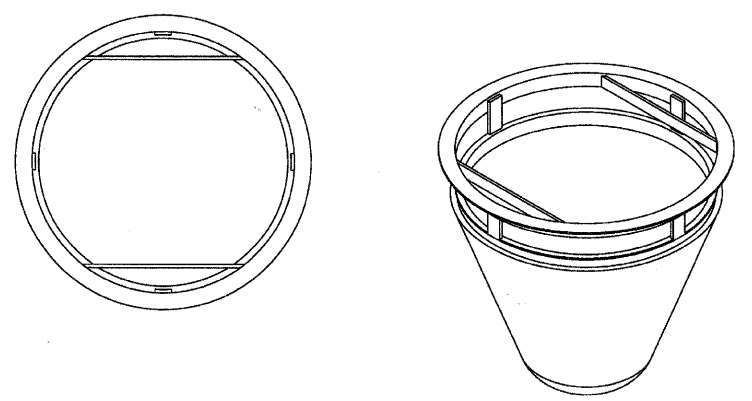
CONTRACT No. 63353

PLAN SURVEYED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 PLOTTED BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 NO. OF DAYS CHECKED: \_\_\_\_\_  
 PLOTTED FILE NAME: \_\_\_\_\_

PROFILE SURVEYED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 PLOTTED BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 NO. OF DAYS CHECKED: \_\_\_\_\_  
 PLOTTED FILE NAME: \_\_\_\_\_



**INLET FILTER INSTALLATION DETAIL**



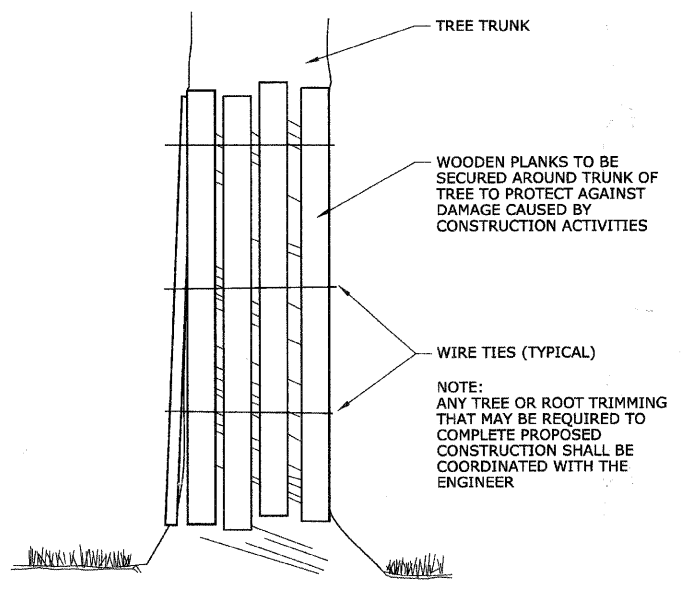
**INLET FILTER ASSEMBLY DETAIL**

- NOTES**
1. INLET FILTER ASSEMBLY SHALL MEET IDOT'S PROVISIONAL SPECIFICATIONS (ISP 04-11).
  2. MAINTENANCE/CLEANING OF THE INLET FILTER ASSEMBLY SHALL BE CONSIDERED TO BE INCIDENTAL TO THE COST OF THE ITEM AND IN STRICT ACCORDANCE WITH THE SPECIAL PROVISIONS AND THE MANUFACTURER'S RECOMMENDATIONS AND WRITTEN SPECIFICATIONS.
  3. PRIOR TO ORDERING MATERIALS, THE CONTRACTOR SHALL DETERMINE THE SIZE AND SHAPE OF THE VARIOUS DRAINAGE STRUCTURES BEING PROTECTED.
  4. MANUFACTURER SHALL FURNISH A CERTIFICATION WITH EACH SHIPMENT STATING COMPLIANCE WITH IDOT REQUIREMENTS.
  5. ASSEMBLY SHALL BE AS MANUFACTURED BY INLET AND PIPE PROTECTION, INC., MARATHON MATERIALS, OR APPROVED EQUAL.

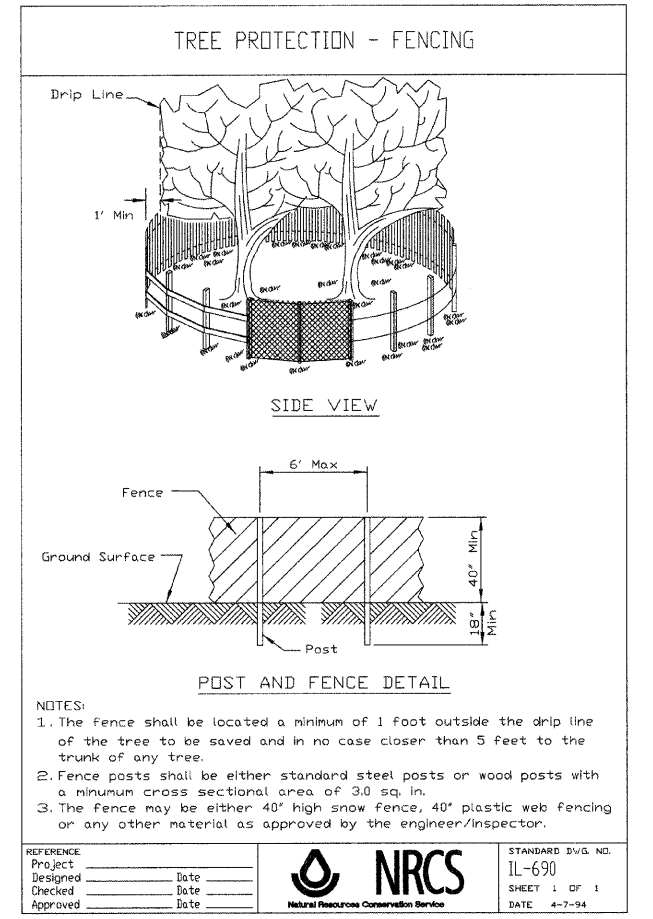
STABILIZATION TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
PERMANENT SEEDING			A			*	*					
DORMANT SEEDING	B										B	
TEMPORARY SEEDING			C			*	D*					
SODDING			E**									
MULCHING	F											

- A. KENTUCKY BLUEGRASS 90 LBS/AC MIXED WITH PERENNIAL RYEGRASS 30 LBS/AC
- B. KENTUCKY BLUEGRASS 135 LBS/AC MIXED WITH PERENNIAL RYEGRASS 45 LBS/AC + 2 TONS STRAW MULCH/AC
- C. SPRING OATS 100 LBS/AC
- D. WHEAT OR CEREAL RYE 150 LBS/AC
- E. SOD
- F. STRAW MULCH 2 TONS/AC
- \* IRRIGATION NEEDED DURING JUNE AND JULY
- \*\* IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD

**SOIL PROTECTION CHART**



**TREE TRUNK PROTECTION**



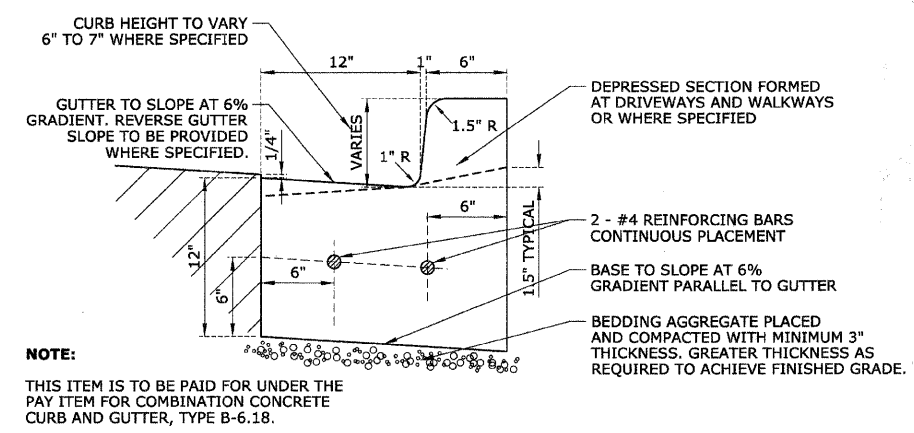
REFERENCE Project _____ Date _____	<p>Natural Resources Conservation Service</p>	STANDARD DWG. NO. IL-690
Designed _____ Date _____		SHEET 1 OF 1
Checked _____ Date _____		DATE 4-7-94

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION <b>BLUFF AVENUE IMPROVEMENTS STAGE 3</b>
NAME	DATE	
		<b>CONSTRUCTION DETAILS - SPECIAL</b>  SCALE: NTS DATE 11/30/2009 DRAWN BY H&A CHECKED BY JRH

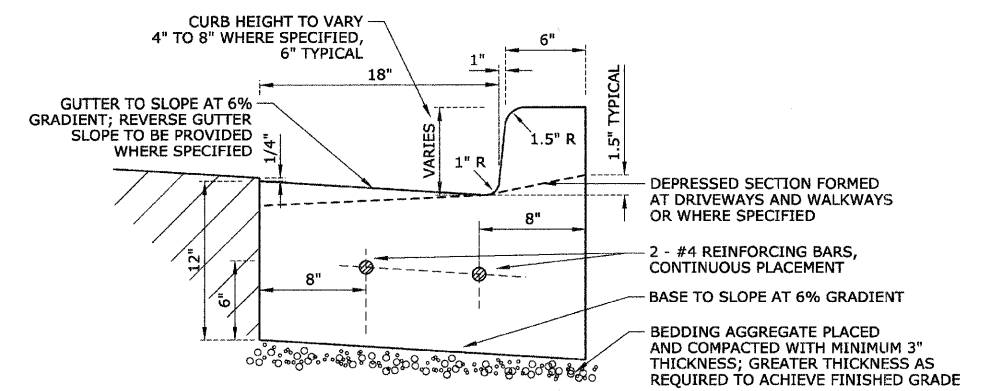


PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED / CHECKED		
	BY / DATE		
	BY / DATE		

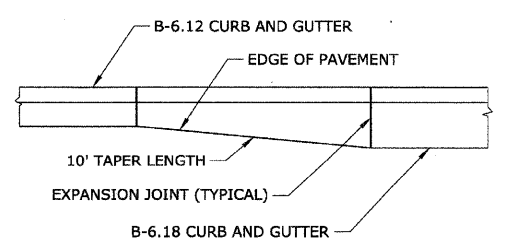
PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED / CHECKED		
	BY / DATE		
	BY / DATE		



**COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 WITH STANDARD GUTTER GRADIENT**



**COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18**



**TRANSITION LENGTH FROM B-6.12 TO B-6.18 CURB AND GUTTER**

**NOTE:**  
 THIS ITEM IS TO BE PAID FOR UNDER THE PAY ITEM FOR COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18.

REVISIONS	
NAME	DATE
PEK	01-04-10

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BLUFF AVENUE IMPROVEMENTS STAGE 3**  
**CONSTRUCTION DETAILS - SPECIAL**  
 SCALE: NTS  
 DATE 11/30/2009  
 DRAWN BY H&A  
 CHECKED BY JRH

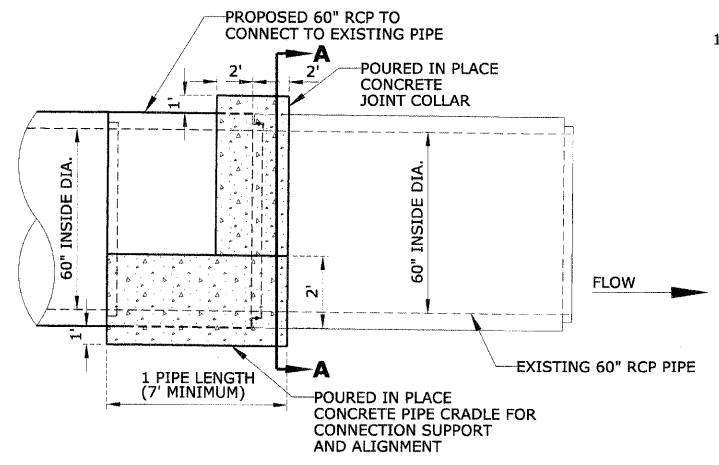
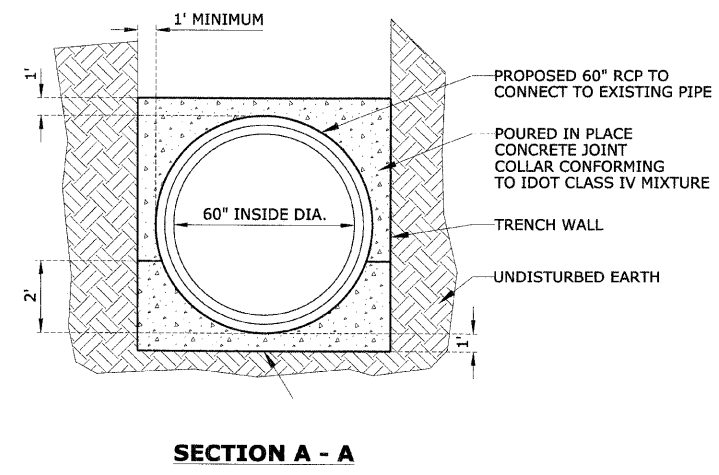
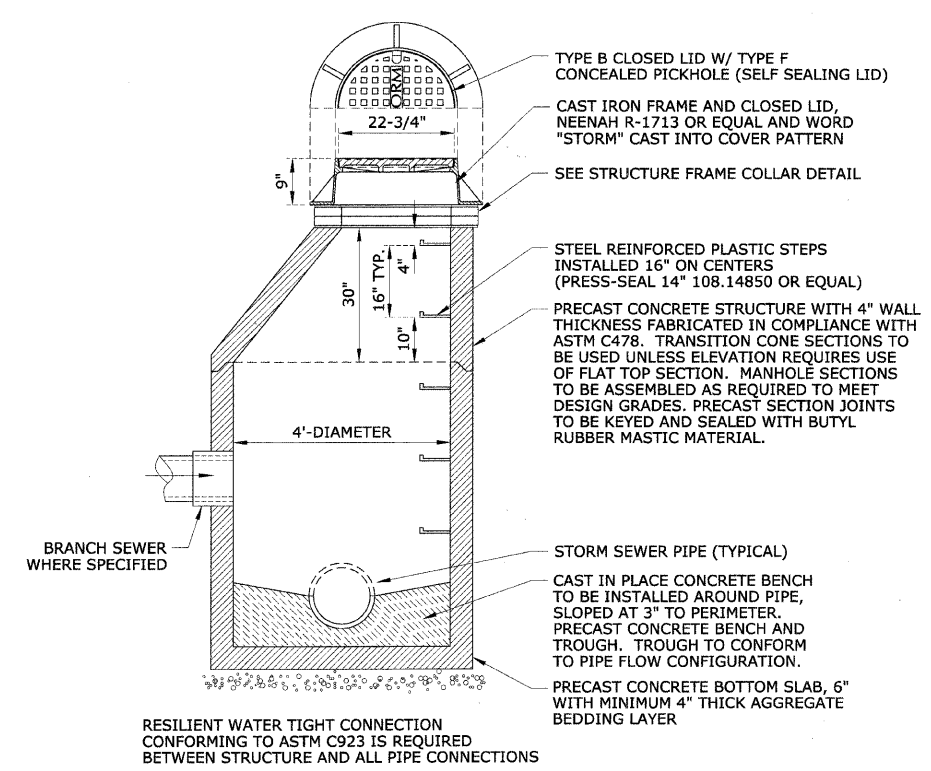




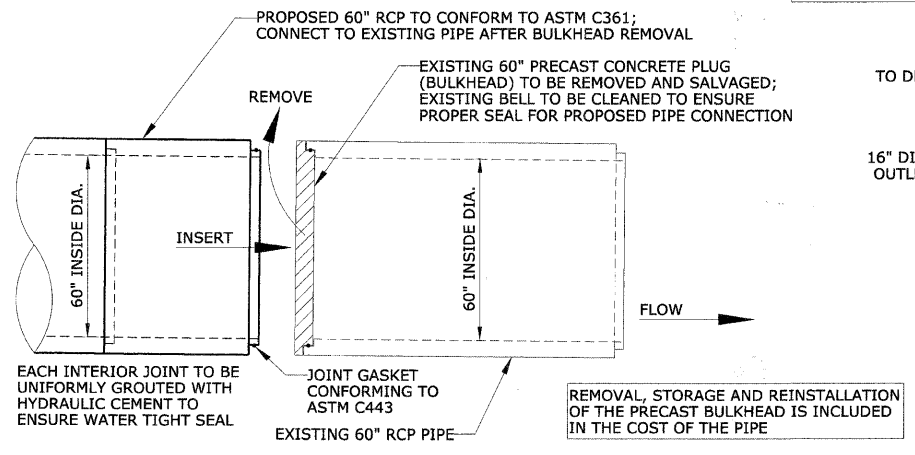


CONTRACT No. 63353

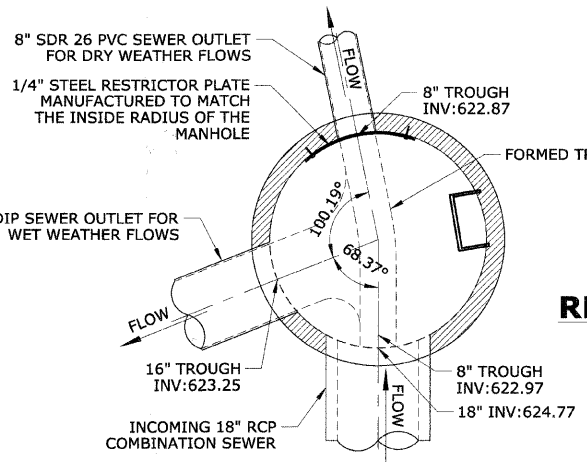
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	NOTE BOOK		
	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		
	PAVED FILE NAME		



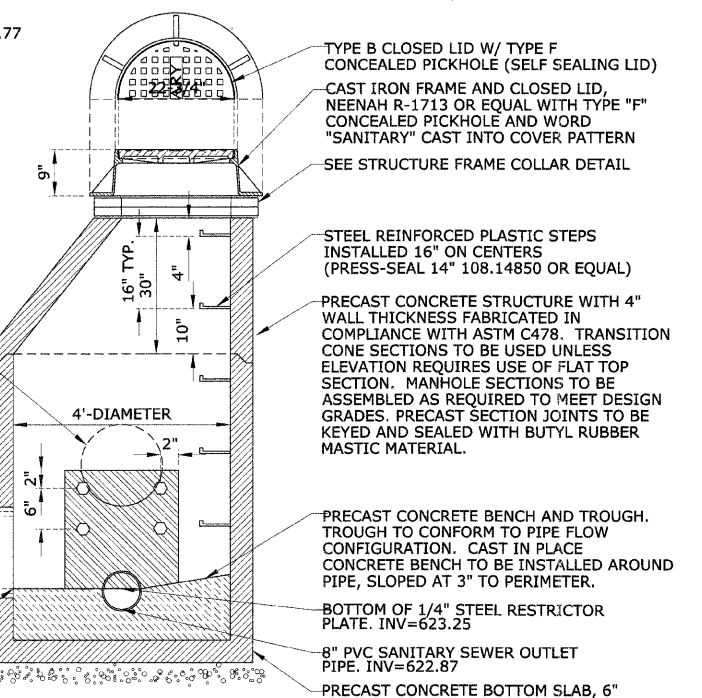
**STORM SEWER CONNECTION, SPECIAL 60" CONNECTION TO EXISTING 60" RCP WITH PIPE CRADLE AND JOINT COLLAR**



**EXISTING PRECAST PLUG (BULKHEAD) REMOVAL AND 60" CONNECTION TO EXISTING 60" RCP**

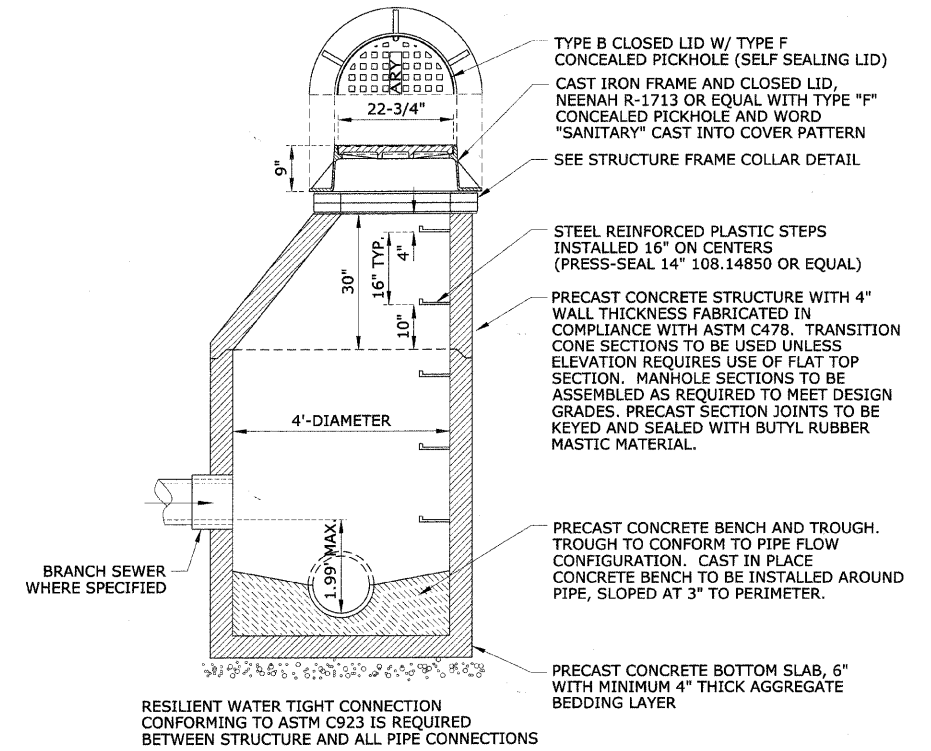


**CROSS SECTION VIEW OF RESTRICTOR PLATE DETAIL FOR STRUCTURE #6055**



**STORM OVERFLOW STRUCTURE #6055 WITH TYPE 1 FRAME AND CLOSED LID**

**SANITARY & COMBINED MANHOLE, TYPE A, 4'-DIAMETER WITH TYPE 1 FRAME AND CLOSED LID**

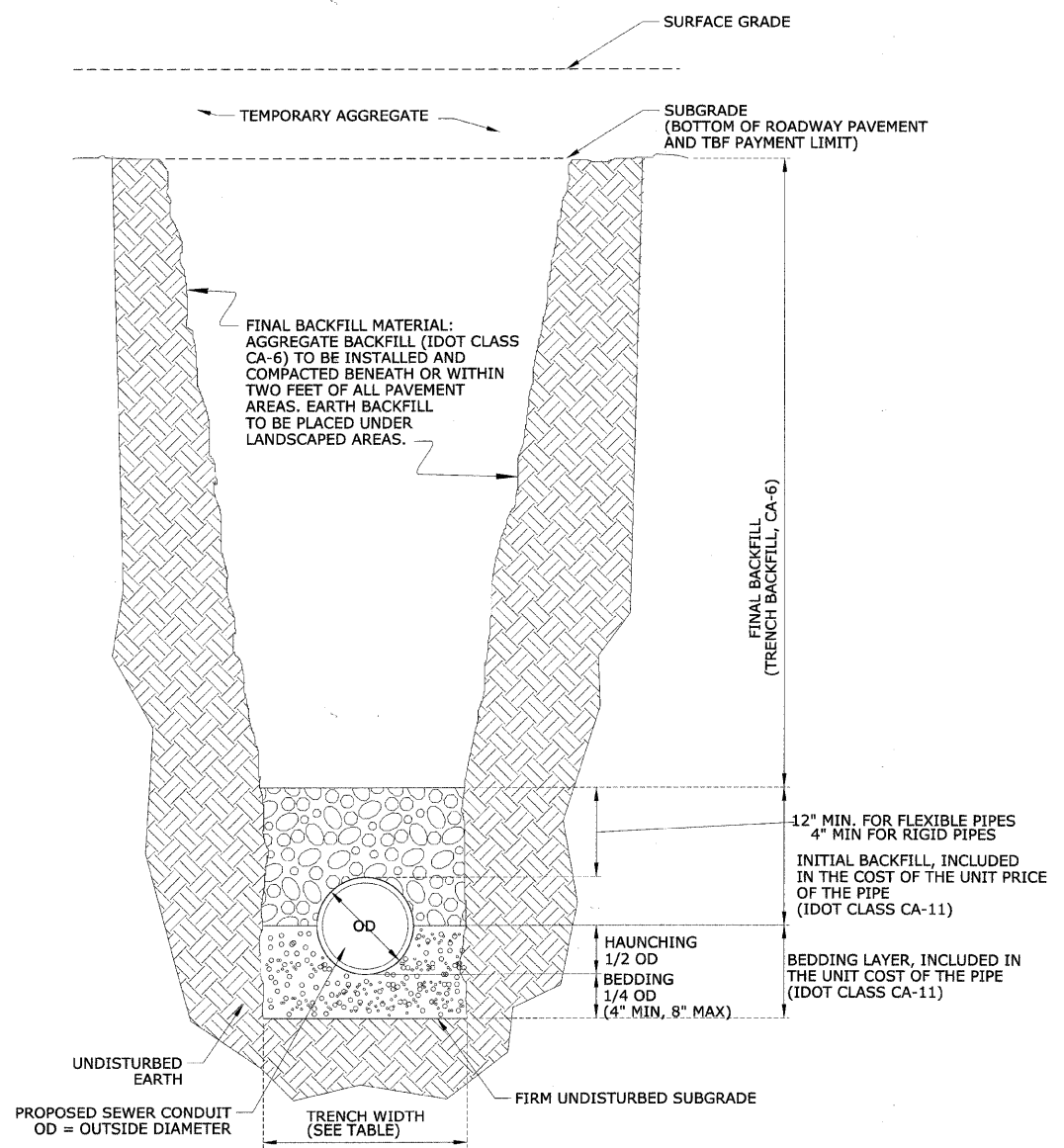


REVISIONS	
NAME	DATE
PER IDOT	01-04-10
PER MWRD	01-29-10

CONTRACT No. 63353

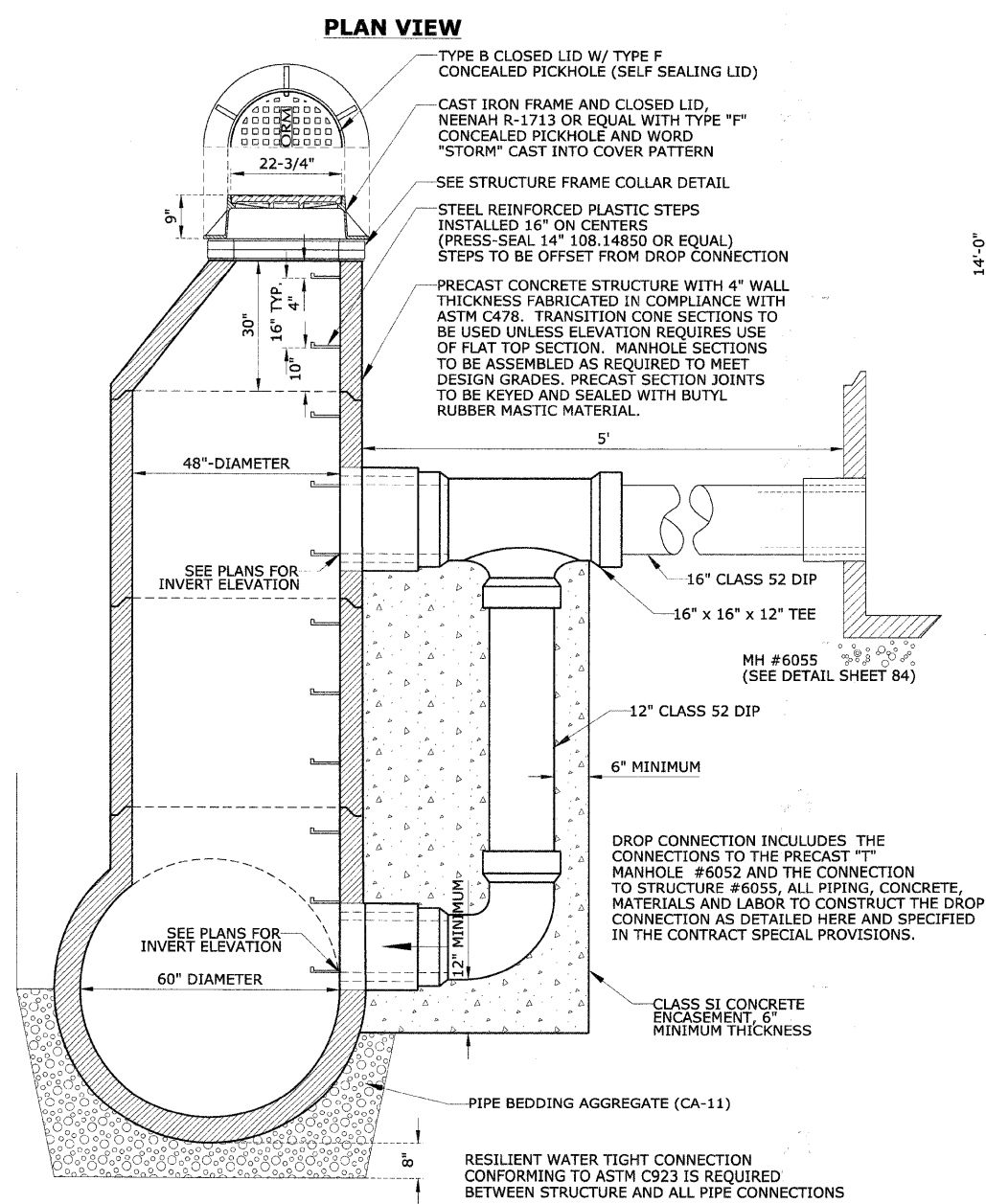
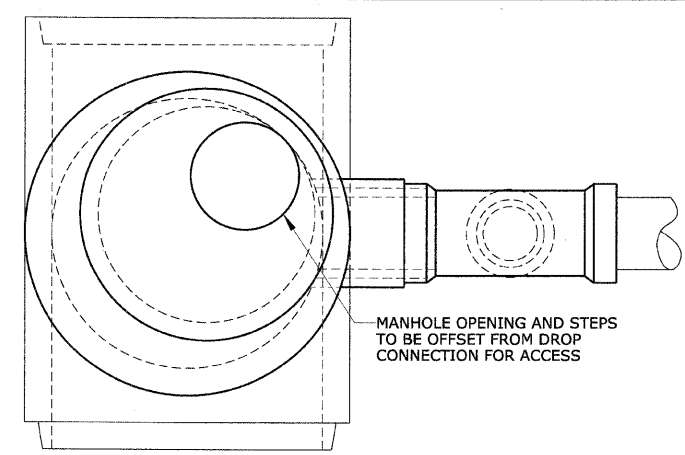
DATE	BY
DATE	BY
DATE	BY

DATE	BY
DATE	BY
DATE	BY

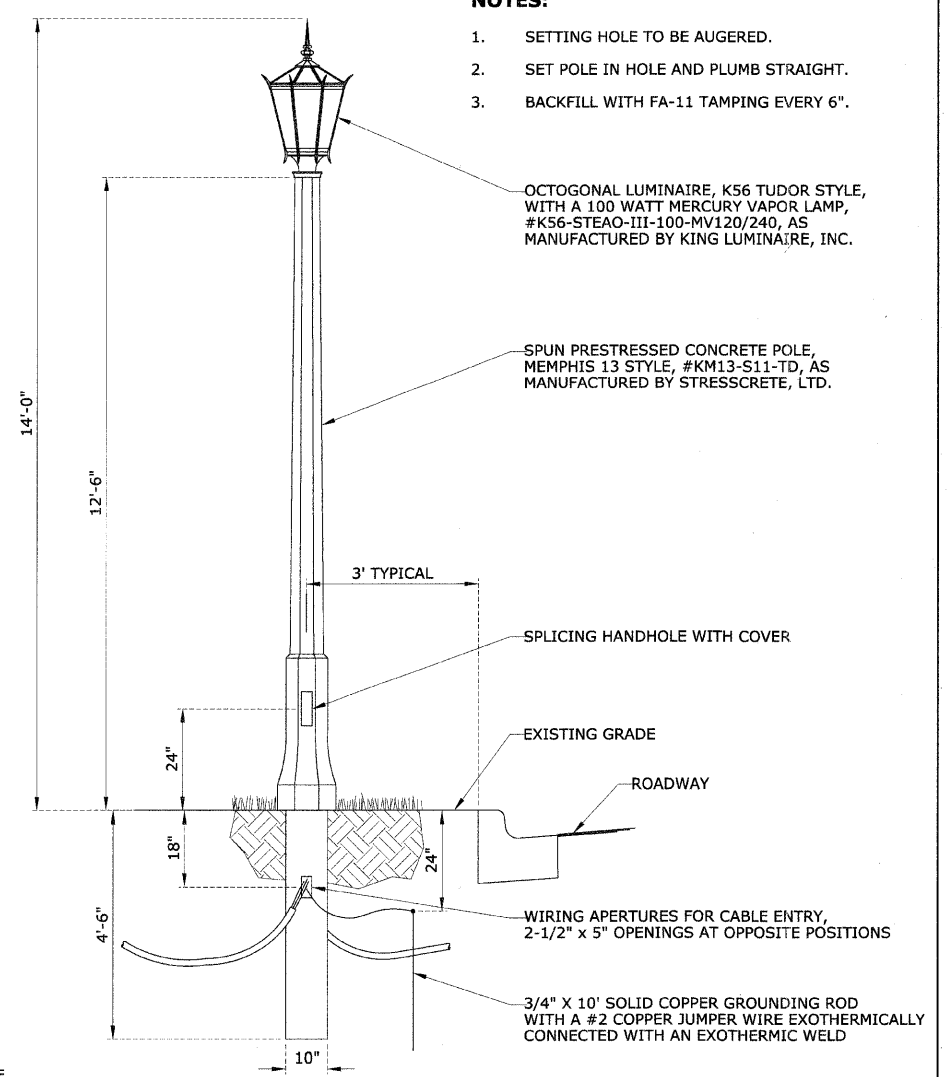


TRENCH DEPTH / PROTECTION	MAXIMUM PAYMENT WIDTH OF TRENCH
5 FT AND LESS, W/O PROTECTION	OD + 18"
5 FT AND LESS, W/ PROTECTION	OD + 36"
GREATER THAN 5 FT	OD + 36"

**SEWER TRENCH DETAIL**



**MH #6052**  
**PRECAST "T" MANHOLE FOR 60" DIAMETER STORM SEWER, TYPE 1 FRAME, CLOSED LID - WITH DROP CONNECTION**



**RELOCATION DETAIL**  
**LA GRANGE LIGHTING STANDARD, STYLE A**  
**CONCRETE POLE WITH OCTOGONAL LANTERN STYLE LUMINAIRE**

- NOTES:**
- SETTING HOLE TO BE AUGERED.
  - SET POLE IN HOLE AND PLUMB STRAIGHT.
  - BACKFILL WITH FA-11 TAMPING EVERY 6".

REVISIONS	
NAME	DATE
PER IDOT	01-04-10
PER MWRD	01-29-10

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BLUFF AVENUE IMPROVEMENTS**  
**STAGE 3**

**CONSTRUCTION DETAILS - SPECIAL**

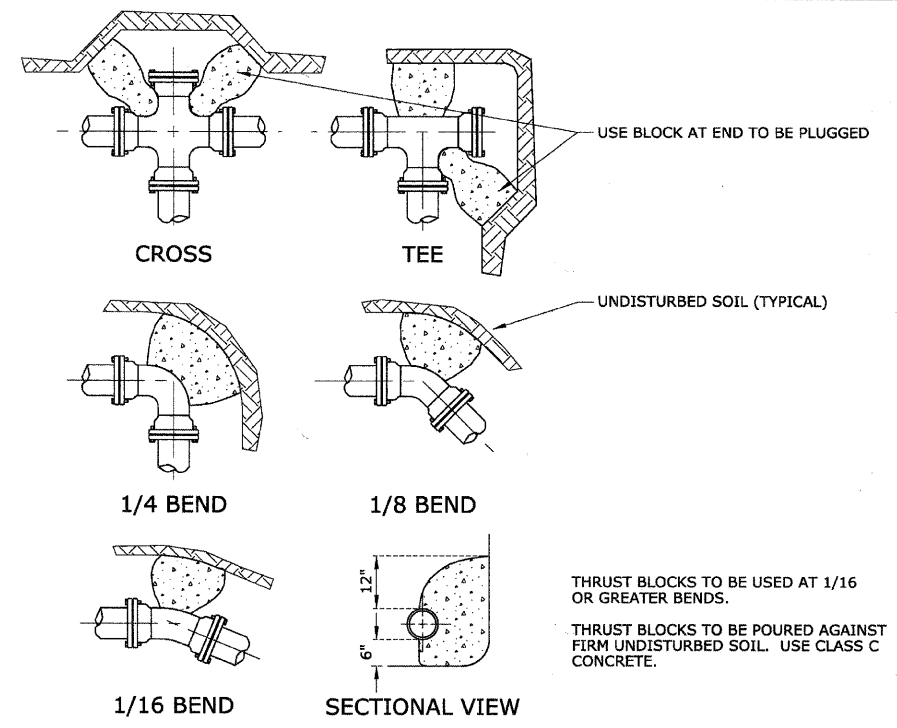
SCALE: NTS  
DATE 11/30/2009

DRAWN BY H&A  
CHECKED BY JRH

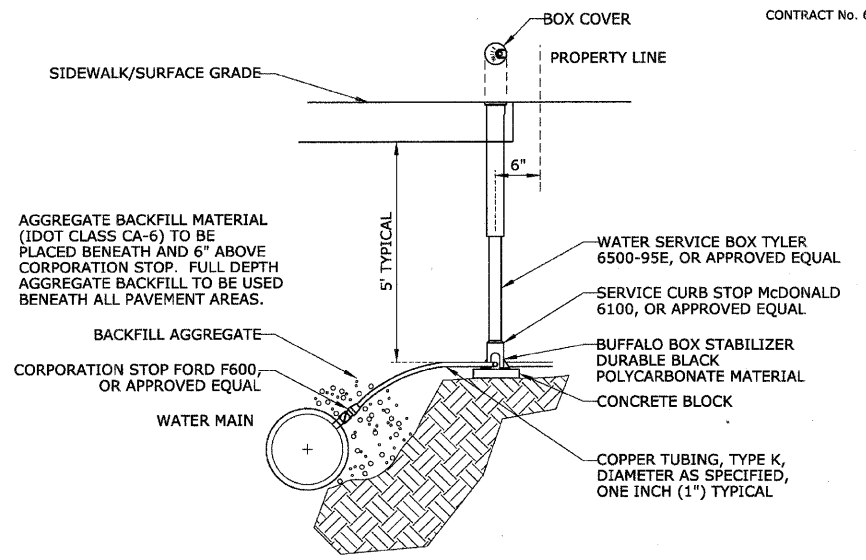




CONTRACT No. 63353



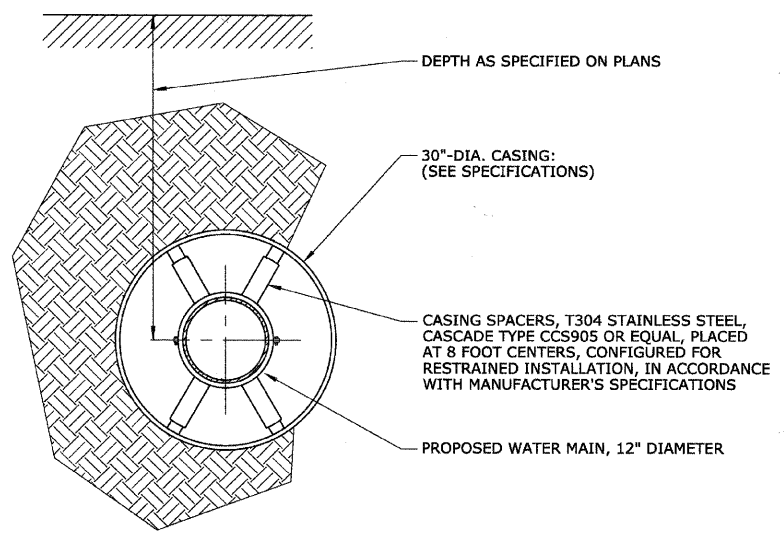
**THRUST BLOCK DETAIL**



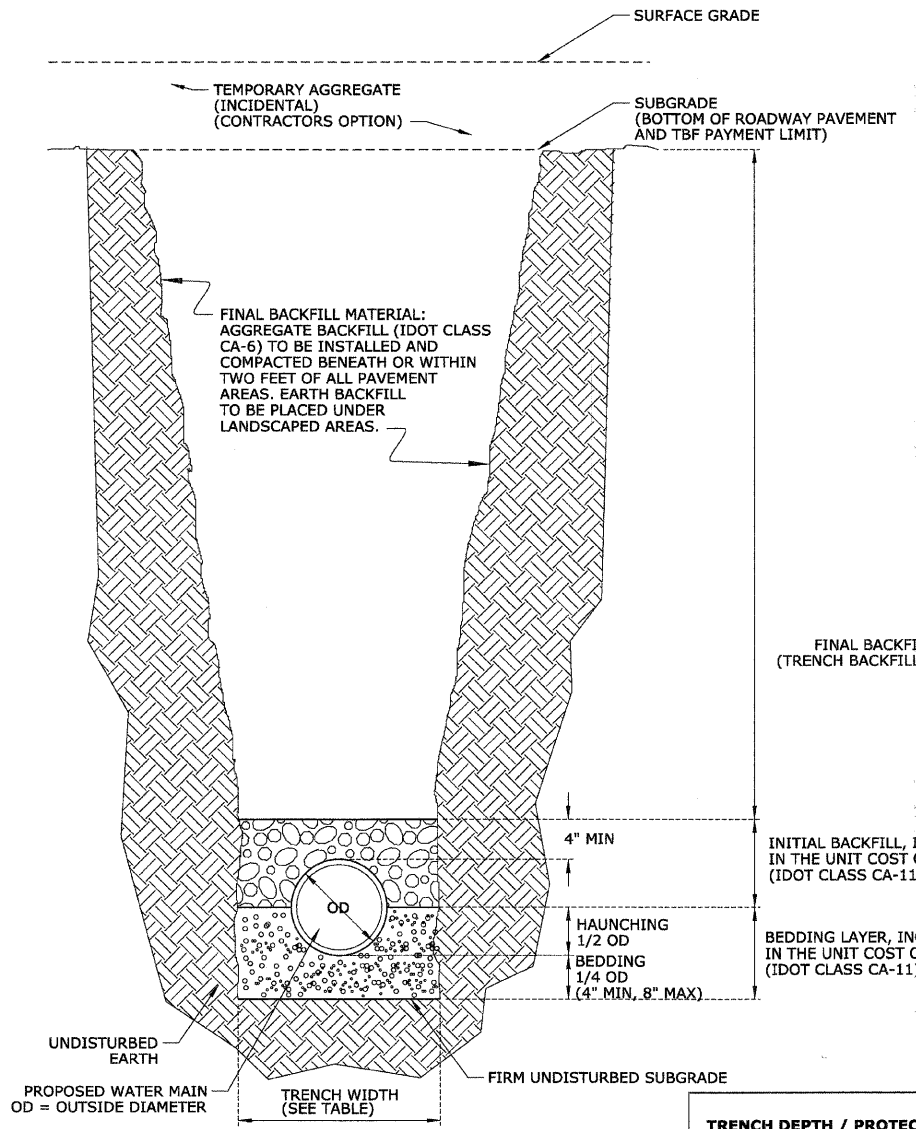
**WATER SERVICE DETAIL**

DATE	
BY	
PLANNED	
CHECKED	
BY	
NO. OF W.A. CHECKED	
NO. OF P.L. CHECKED	
NO.	

DATE	
BY	
STRUCTURE	
NOTATIONS	
NO.	



**WATER MAIN IN STEEL CASING PIPE**



**WATER TRENCH DETAIL**

TRENCH DEPTH / PROTECTION	MAXIMUM PAYMENT WIDTH OF TRENCH
5 FT AND LESS, W/O PROTECTION	OD + 18"
5 FT AND LESS, W/ PROTECTION	OD + 36"
GREATER THAN 5 FT	OD + 36"

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BLUFF AVENUE IMPROVEMENTS  
 STAGE 3**

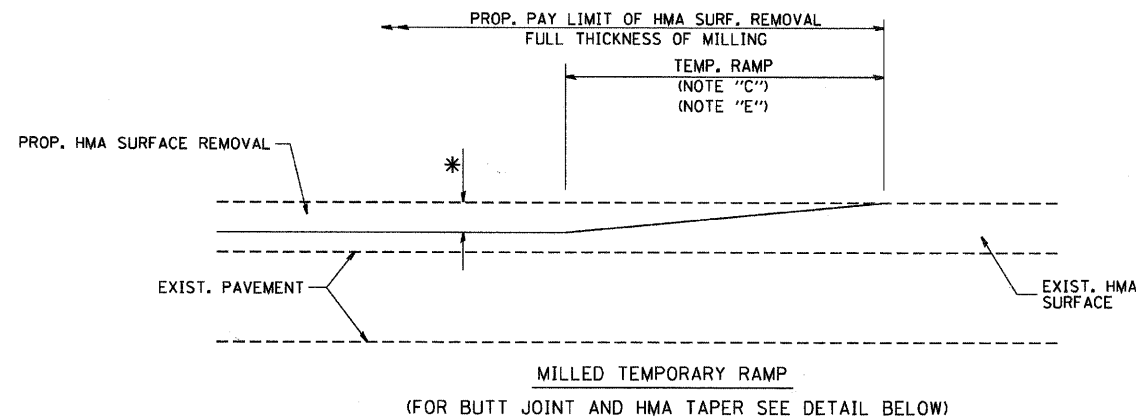
**CONSTRUCTION DETAILS - SPECIAL**

SCALE: NTS  
 DATE 11/30/2009

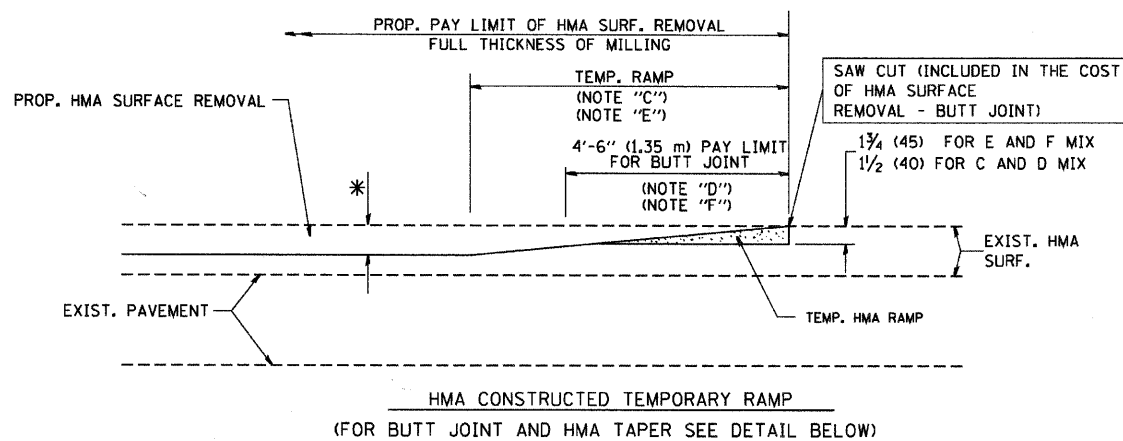
DRAWN BY H&A  
 CHECKED BY JRH



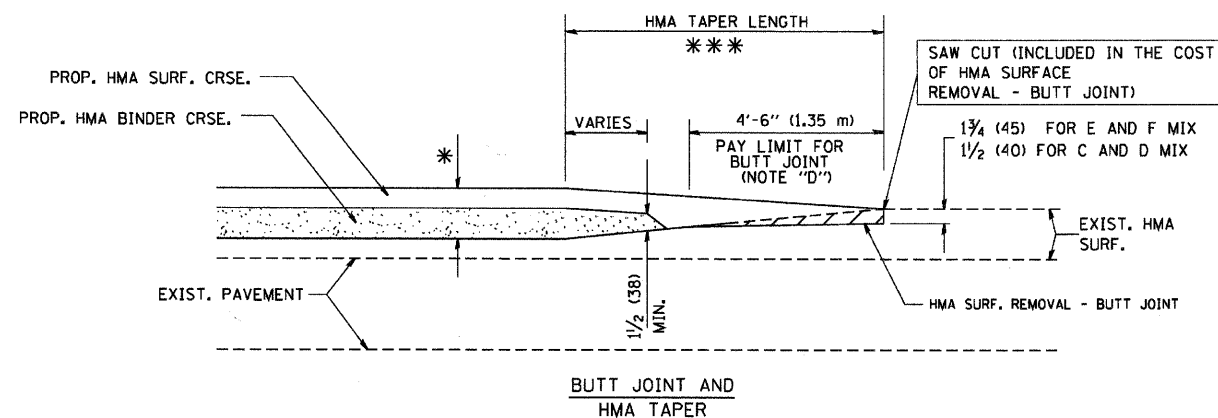
F.A.D. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
100408-0079-03-FP	COOK		94	89
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



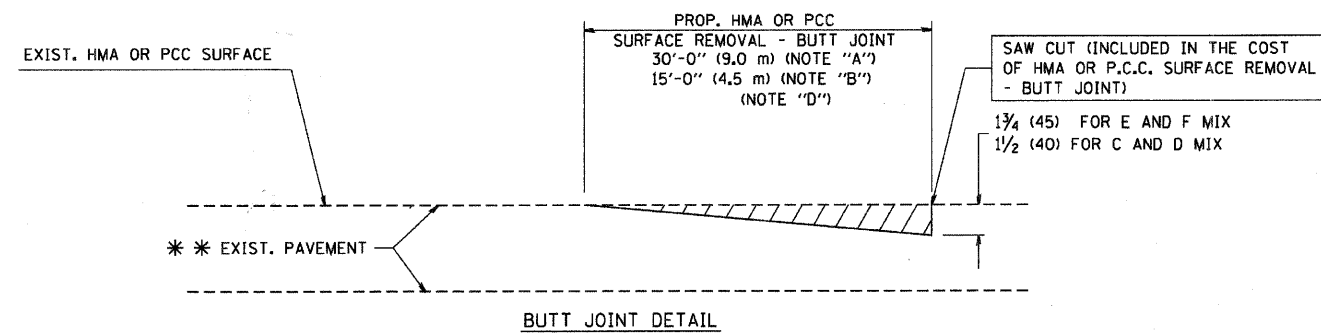
OPTION 1



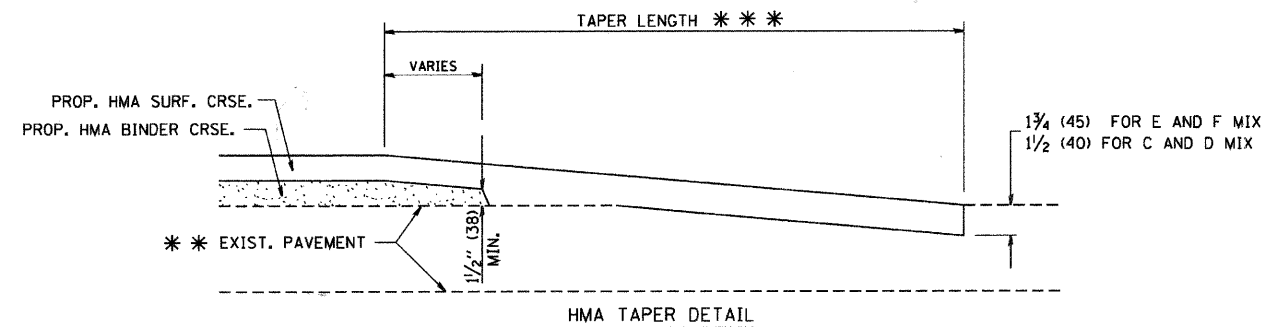
OPTION 2  
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER  
FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



TYPICAL BUTT JOINT AND HMA TAPER  
FOR RESURFACING ONLY

\*\*\* PC CONCRETE, HMA OR HMA 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 HMA SURFACE.
  - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
  - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
  - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
  - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- \* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

\*\*\* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")  
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

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

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

REVISIONS	
NAME	DATE
M. DE YONG	6-13-90
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/25/94
A. ABBAS	03/21/97
M. GOMEZ	04/06/01
R. BORO	01/01/07

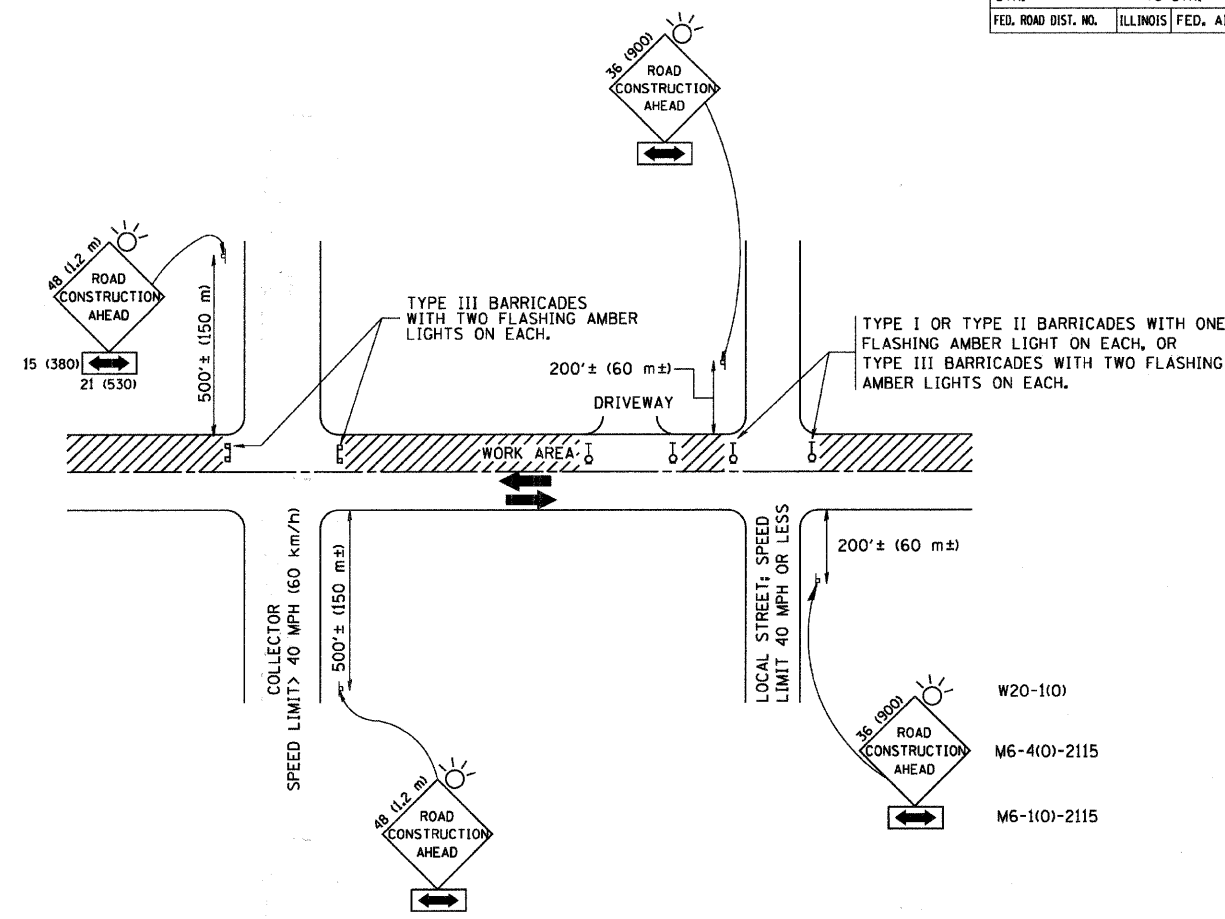
ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

SCALE: VERT. NONE  
HORIZ.

DRAWN BY  
CHECKED BY

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
100408-00079-03-FP	COOK	94	90	
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

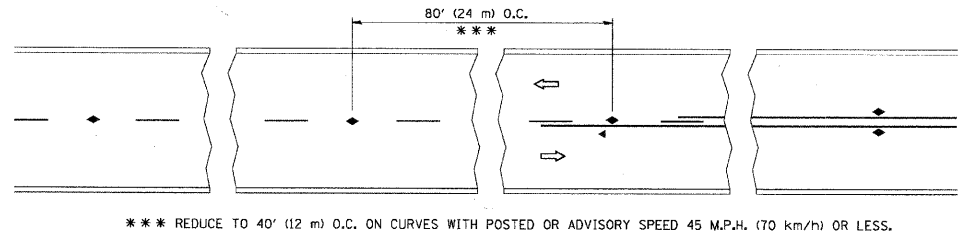
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL AND PROTECTION  
 FOR  
 SIDE ROADS, INTERSECTIONS, AND  
 DRIVEWAYS

SCALE: NONE

DRAWN BY  
 CHECKED BY  
 TC-10

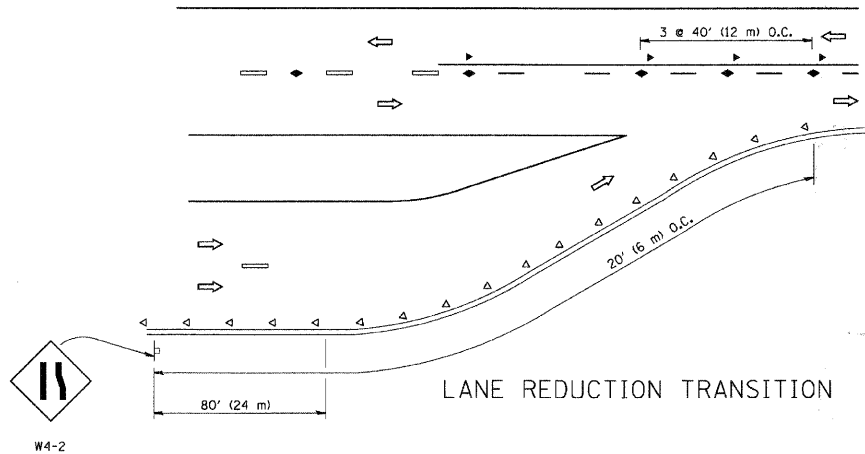
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F.A.U. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
100408-0007903-FA	COOK	94	91
STA. TO STA.		ILLINOIS FED. AID PROJECT	
FED. ROAD DIST. NO.			

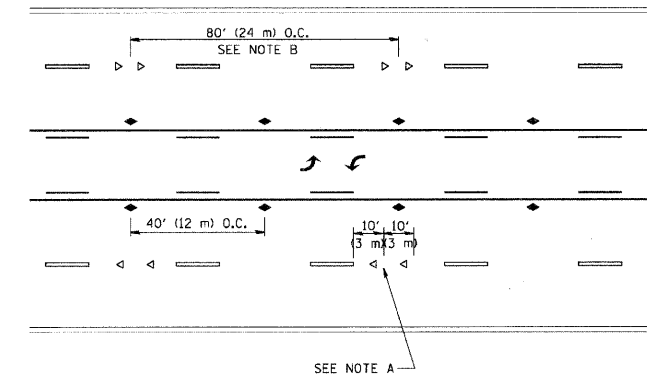


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

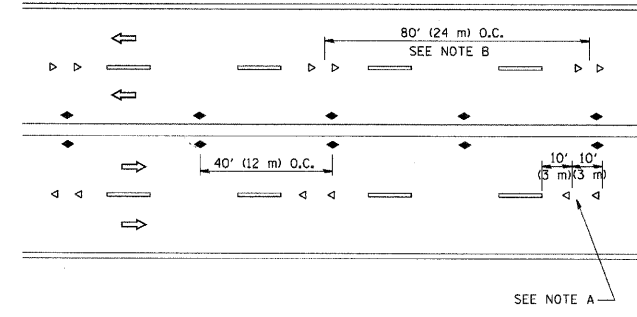
TWO-LANE/TWO-WAY



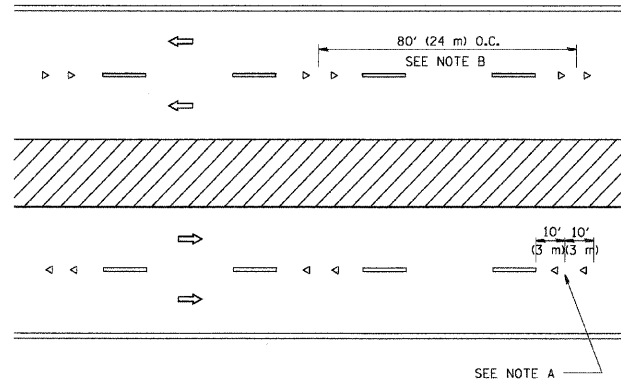
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

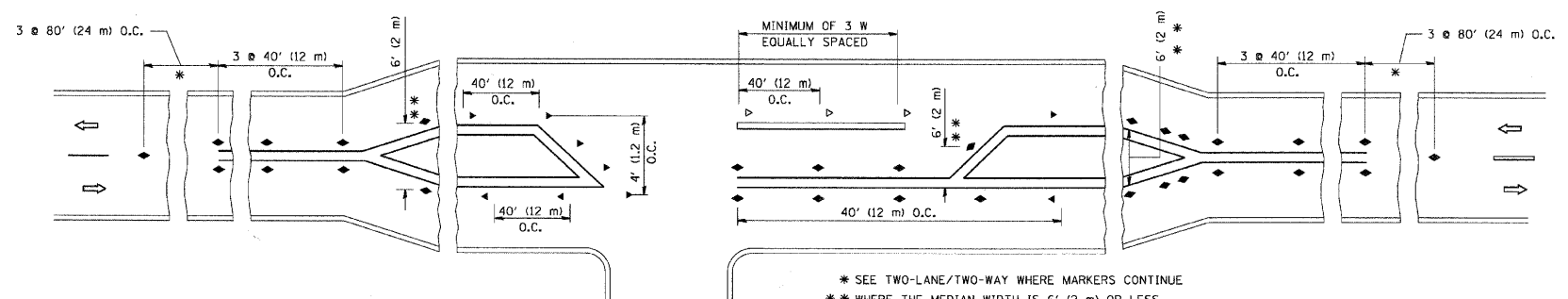
- YELLOW STRIPE
- WHITE STRIPE
- ◄ ONE-WAY AMBER MARKER
- ◄ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

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

REVISIONS	
NAME	DATE
T. RAMMACHER	09-19-94
T. RAMMACHER	03-12-99
T. RAMMACHER	01-06-00
C. JUCIUS	09-09-09

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TYPICAL APPLICATIONS  
 RAISED REFLECTIVE PAVEMENT  
 MARKERS (SNOW-PLOW RESISTANT)

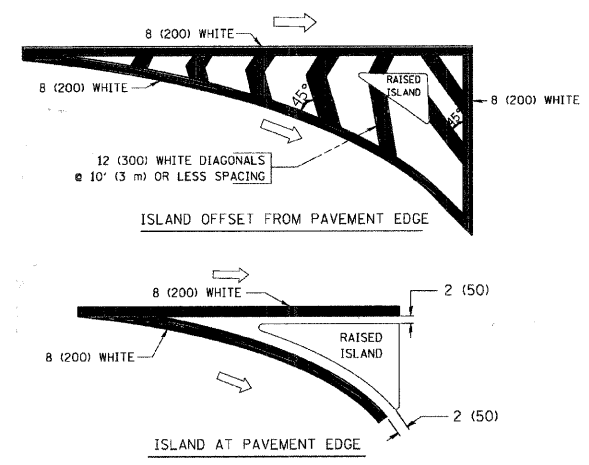
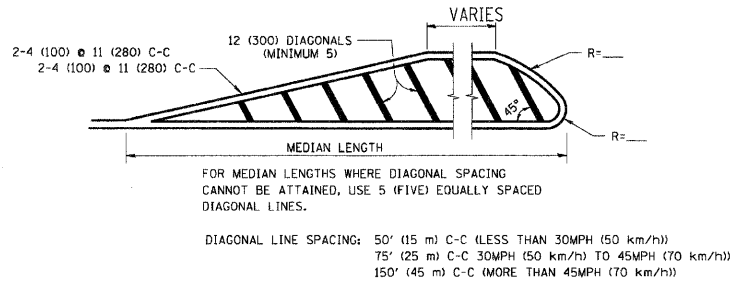
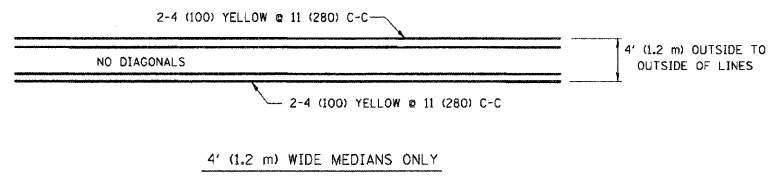
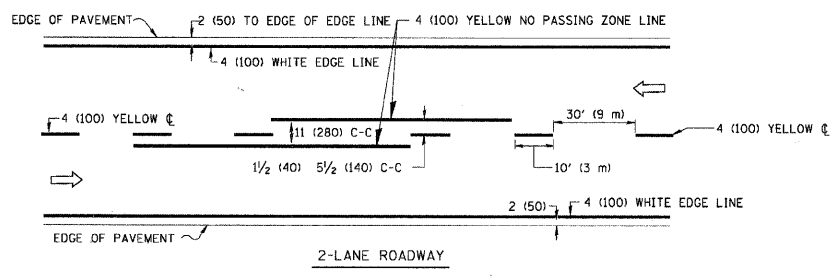
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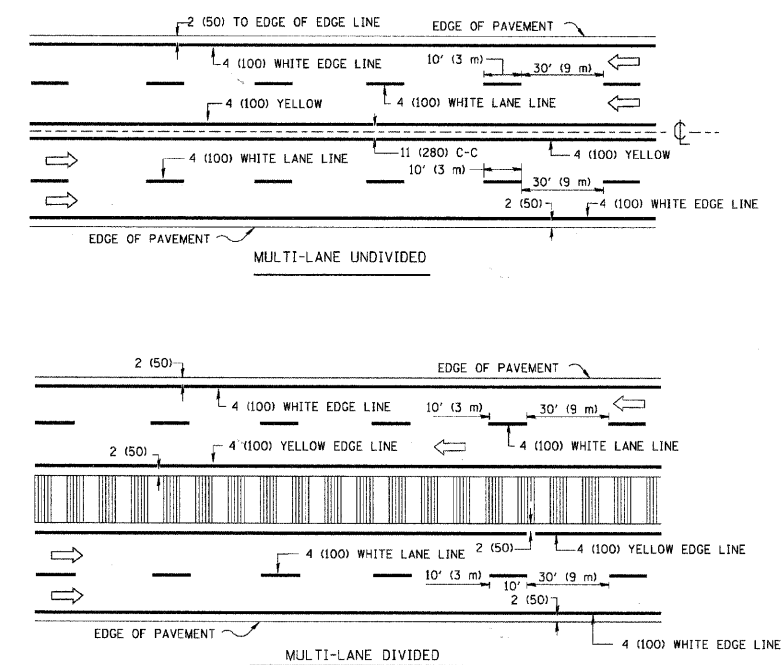
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

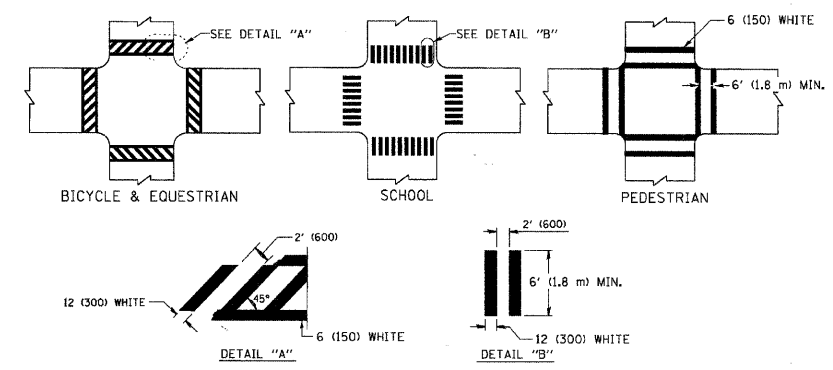


TYPICAL ISLAND MARKING

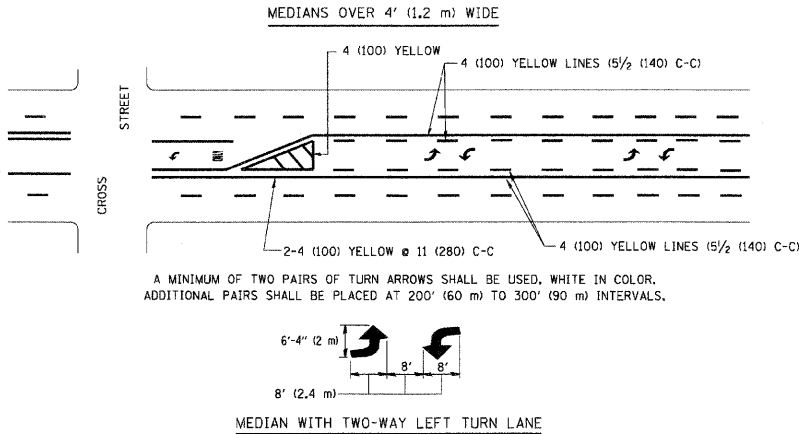


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

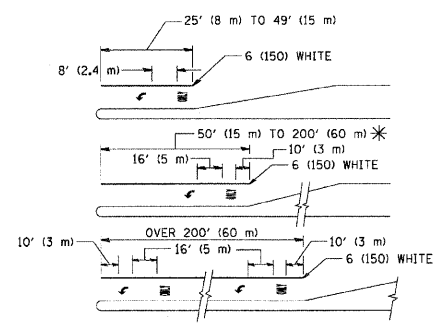
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINES; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

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

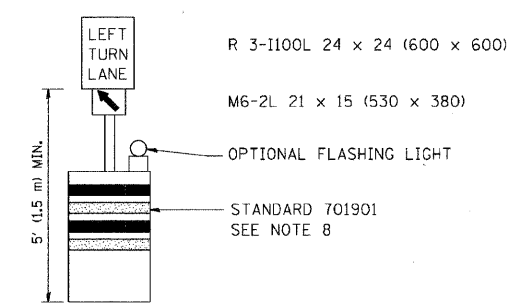
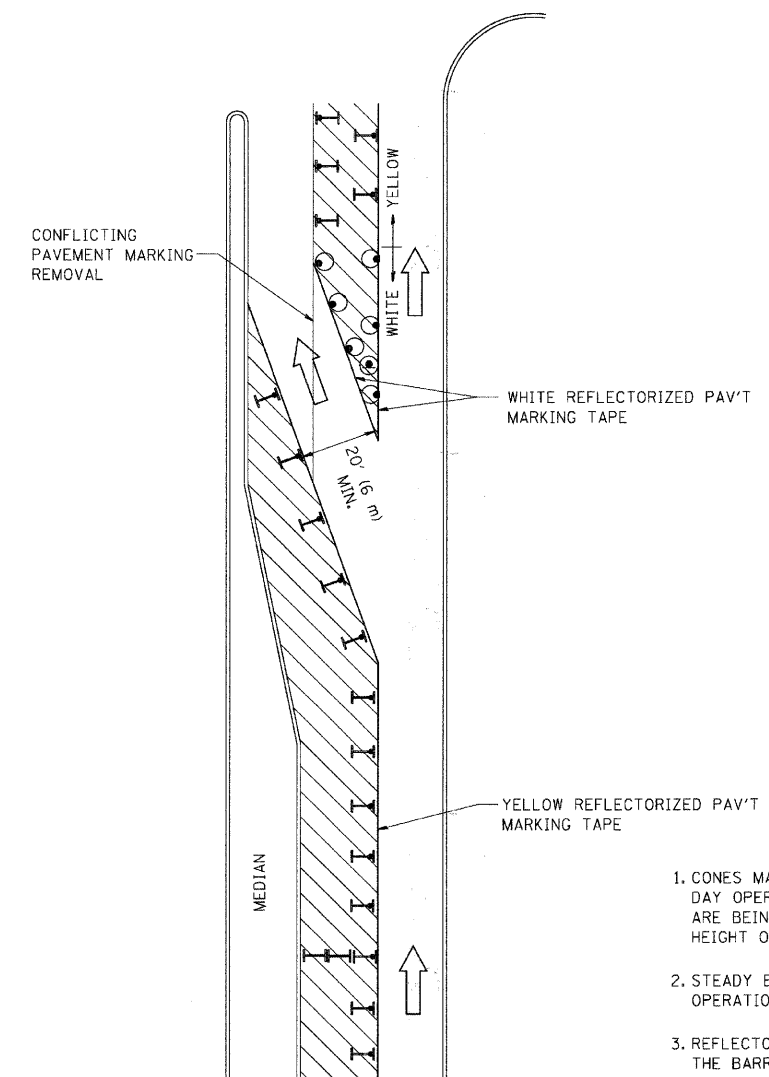
REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
C. JUCIUS	09-09-09

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DISTRICT ONE  
TYPICAL PAVEMENT MARKINGS

SCALE: NONE  
DRAWN BY CADD  
CHECKED BY

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USER NAME = drivakogrn

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

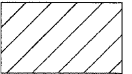
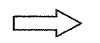






**GENERAL NOTES**

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

**LEGEND**

-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

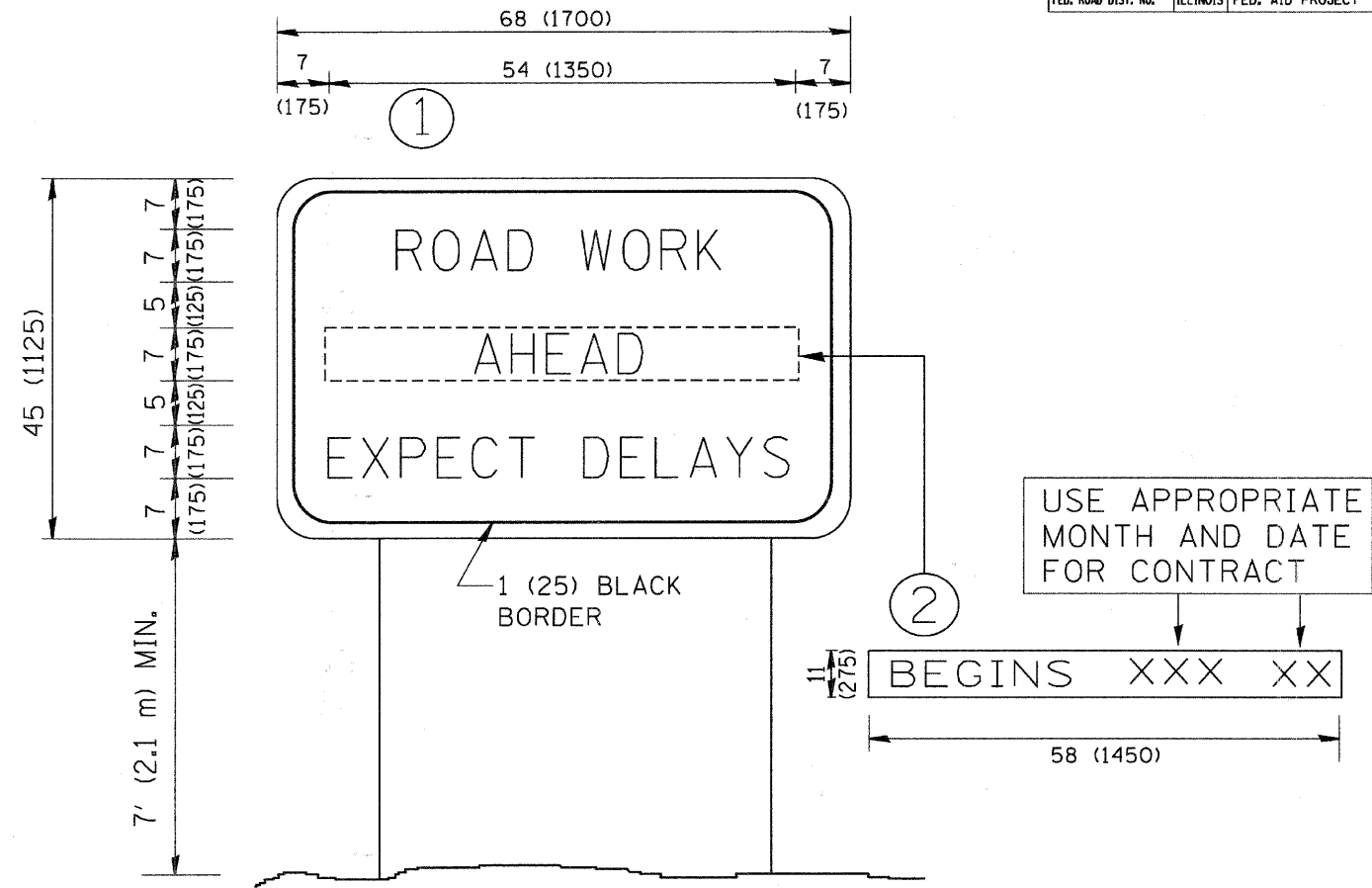
REVISIONS	
NAME	DATE
T. RAMMACHER	09/08/94
A. HOUSEH	11/07/95
A. HOUSEH	10/12/96
T. RAMMACHER	01/06/00
R. BORO	09/14/09

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)**

SCALE: NONE  
 DRAWN BY  
 CHECKED BY LHA  
 TC-14

PLOT DATE = 9/14/2009  
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 PLOT SCALE = 49.9999 / 1 IN.  
 USER NAME = drvakosgn

F.A.W. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
100#08-00079-03-PA	COOK	94	94	
STA.		TO STA.		
FED. ROAD DIST. NO.	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 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

REVISIONS	
NAME	DATE
R. MIRS	9-15-97
R. MIRS	12-11-97
T. RAMMACHER	2-2-99
C. JUCIUS	1-31-07

ILLINOIS DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

SCALE: NONE

DRAWN BY DESIGN  
CHECKED BY

TC22