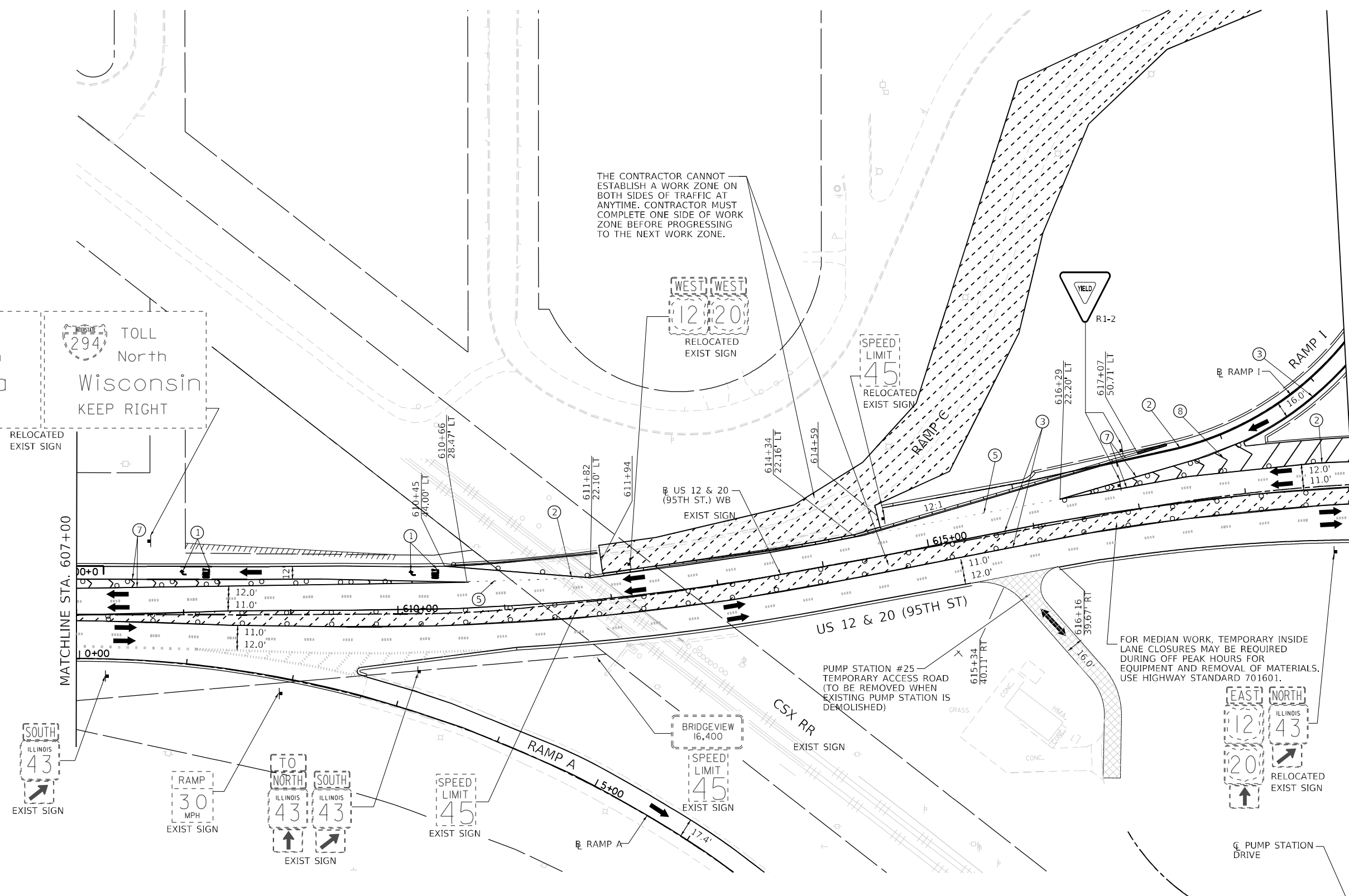
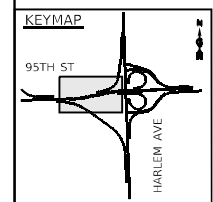




TOLL South Indiana KEEP LEFT  
 TOLL North Wisconsin KEEP RIGHT

THE CONTRACTOR CANNOT ESTABLISH A WORK ZONE ON BOTH SIDES OF TRAFFIC AT ANYTIME. CONTRACTOR MUST COMPLETE ONE SIDE OF WORK ZONE BEFORE PROGRESSING TO THE NEXT WORK ZONE.



MATCHLINE STA. 619+00  
 STA. 619+00 TO STA. 627+00, REFER TO SHT 2 OF 6

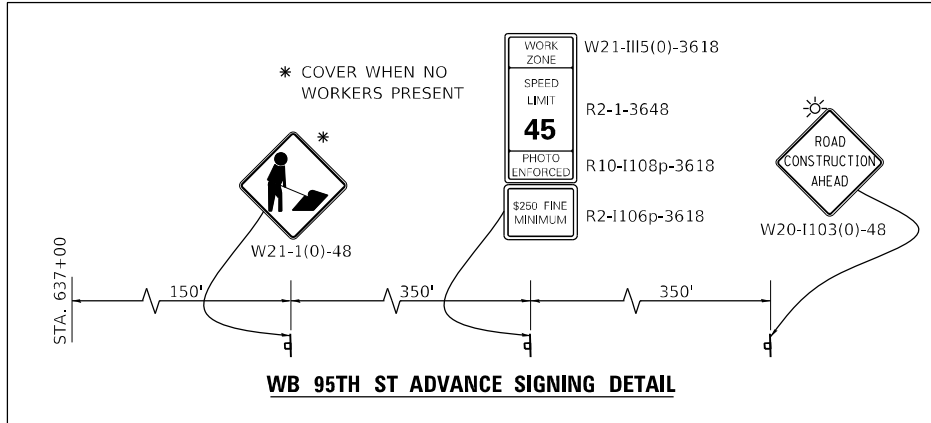
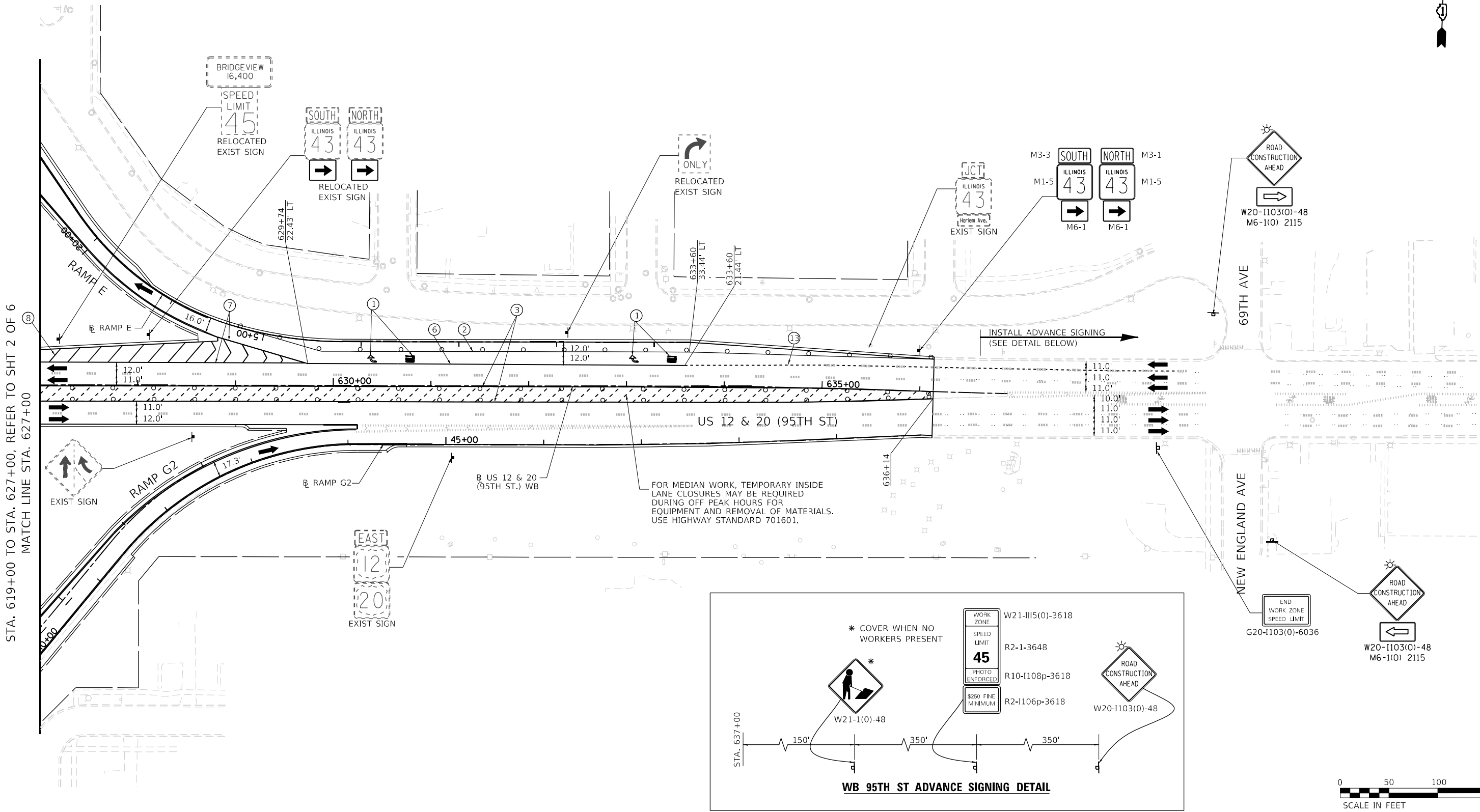
FOR MEDIAN WORK, TEMPORARY INSIDE LANE CLOSURES MAY BE REQUIRED DURING OFF PEAK HOURS FOR EQUIPMENT AND REMOVAL OF MATERIALS. USE HIGHWAY STANDARD 701601.

PUMP STATION #25 - TEMPORARY ACCESS ROAD (TO BE REMOVED WHEN EXISTING PUMP STATION IS DEMOLISHED)

MOT PLAN LEGEND:		VERTICAL PANELS @ 50' CENTERS (25' CENTERS ALONG TAPERS AND RAMP)		PAVEMENT MARKING TAPE, TYPE IV - LETTERS AND SYMBOLS (WHITE)		PAVEMENT MARKING TAPE, TYPE IV 4" (6' SKIP-2' DASH, WHITE)		PAVEMENT MARKING TAPE, TYPE IV 24" (STOP BAR, WHITE)	
	CONSTRUCTION WORK ZONE		VERTICAL PANELS @ 50' CENTERS (25' CENTERS ALONG TAPERS AND RAMP)		PAVEMENT MARKING TAPE, TYPE IV - LETTERS AND SYMBOLS (WHITE)		PAVEMENT MARKING TAPE, TYPE IV 4" (6' SKIP-2' DASH, WHITE)		PAVEMENT MARKING TAPE, TYPE IV 24" (STOP BAR, WHITE)
	TEMPORARY PAVEMENT		TYPE III BARRICADE WITH STEADY BURNING LIGHT		PAVEMENT MARKING TAPE, TYPE IV 4" (SOLID, WHITE)		PAVEMENT MARKING TAPE, TYPE IV 6" (SOLID, WHITE)		PAVEMENT MARKING TAPE, TYPE IV 4" (DOUBLE YELLOW AT 11" C-C)
	DIRECTION OF TRAFFIC FLOW		TYPE II BARRICADES OR DRUMS @ 50' CENTERS (25' CENTERS ALONG TAPERS AND RAMP)		PAVEMENT MARKING TAPE, TYPE IV 4" (SOLID, YELLOW)		PAVEMENT MARKING TAPE, TYPE IV 8" (SOLID, WHITE)		PAVEMENT MARKING TAPE, TYPE IV 6" (9' SKIP-3' DASH, WHITE)
	CONSTRUCTION SIGN		DIRECTION INDICATOR BARRICADES TO BE USED IN LANE DROP TAPERS		PAVEMENT MARKING TAPE, TYPE IV 4" (30' SKIP-10' DASH, WHITE)		PAVEMENT MARKING TAPE, TYPE IV 12" (CHEVRONS, WHITE)		PAVEMENT MARKING TAPE, TYPE IV 4" (9' SKIP-3' DASH, WHITE)



FILE NAME = ...1D160R49_sht_Mot_Stage 4.dgn	USER NAME = KSUMRAK	DESIGNED - AAF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		MAINTENANCE OF TRAFFIC STAGE 4 - US RTE 12 & 20 (95TH STREET)		F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 201
THE HOH GROUP, INC. ARCHITECTS   ENGINEERS	PLOT SCALE = N/A	CHECKED - BAP	REVISED -			SCALE: 1"=50'	SHEET NO. 5 OF 6 SHEETS	STA. 607+00.00 TO STA. 619+00.00	CONTRACT NO. 60R49		ILLINOIS FED. AID PROJECT	
PN: 3730	PLOT DATE = 11/30/2023	DATE -	REVISED -	MOT4-05								

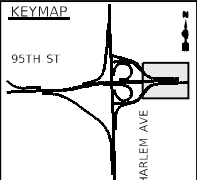


**MOT PLAN LEGEND:**

	CONSTRUCTION WORK ZONE		IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
	TEMPORARY PAVEMENT		TEMPORARY CONCRETE BARRIER OR RELOCATE TEMPORARY CONCRETE BARRIER
	DIRECTION OF TRAFFIC FLOW		TYPE II BARRICADES OR DRUMS @ 50' CENTERS (25' CENTERS ALONG TAPERS AND RAMP)
	CONSTRUCTION SIGN		DIRECTION INDICATOR BARRICADES TO BE USED IN LANE DROP TAPERS

	VERTICAL PANELS @ 50' CENTERS (25' CENTERS ALONG TAPERS AND RAMP)
	TYPE III BARRICADE WITH STEADY BURNING LIGHT
	ARROW BOARD

- |  |  |  |
|--|--|--|
| ① PAVEMENT MARKING TAPE, TYPE IV - LETTERS AND SYMBOLS (WHITE) | ⑤ PAVEMENT MARKING TAPE, TYPE IV 4" (6' SKIP-2' DASH, WHITE) | ⑩ PAVEMENT MARKING TAPE, TYPE IV 24" (STOP BAR, WHITE)         |
| ② PAVEMENT MARKING TAPE, TYPE IV 4" (SOLID, WHITE)             | ⑥ PAVEMENT MARKING TAPE, TYPE IV 6" (SOLID, WHITE)           | ⑪ PAVEMENT MARKING TAPE, TYPE IV 4" (DOUBLE YELLOW AT 11" C-C) |
| ③ PAVEMENT MARKING TAPE, TYPE IV 4" (SOLID, YELLOW)            | ⑦ PAVEMENT MARKING TAPE, TYPE IV 8" (SOLID, WHITE)           | ⑫ PAVEMENT MARKING TAPE, TYPE IV 6" (9' SKIP-3' DASH, WHITE)   |
| ④ PAVEMENT MARKING TAPE, TYPE IV 4" (30' SKIP-10' DASH, WHITE) | ⑧ PAVEMENT MARKING TAPE, TYPE IV 12" (CHEVRONS, WHITE)       | ⑬ PAVEMENT MARKING TAPE, TYPE IV 4" (9' SKIP-3' DASH, WHITE)   |
|  | ⑨ PAVEMENT MARKING TAPE, TYPE IV 12" (CHEVRONS, YELLOW)      | ⑭ PAVEMENT MARKING TAPE, TYPE IV 6" (6' SKIP-4' DASH, WHITE)   |



FILE NAME = ...10160R49_sht_Mot_Stage 4.dgn	USER NAME = KSUMRAK	DESIGNED - AAF	REVISED -
<b>THE HOH GROUP, INC.</b> ARCHITECTS   ENGINEERS	PLOT SCALE = N/A	DRAWN - AAF	REVISED -
PN: 3730	PLOT DATE = 11/30/2023	CHECKED - BAP	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC  
STAGE 4 - US RTE 12 & 20 (95TH STREET)**

SCALE: 1"=50'    SHEET NO. 6 OF 6 SHEETS    STA. 627+00.00 TO STA. N/A

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 202
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60R49	

EROSION AND SEDIMENT CONTROL GENERAL NOTES

1. THE CONSTRUCTION LIMITS WILL BE STAKED BY THE ENGINEER PRIOR TO COMMENCING CONSTRUCTION. THE CONSTRUCTION LIMITS MAY BE ADJUSTED BY THE ENGINEER TO PRESERVE TREES AND NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR CHANGED CONSTRUCTION LIMITS.
2. PERIMETER EROSION SHALL BE ERECTED ADJACENT TO TEMPORARY CONSTRUCTION FENCE. THE RESIDENT SHALL HAVE FINAL DETERMINATION OF THE PLACEMENT AND LOCATION OF THE PERIMETER EROSION BARRIER.
3. TEMPORARY EROSION CONTROL SYSTEMS TO BE CONSTRUCTED AND IMPLEMENTED IN ACCORDANCE WITH IDOT'S STANDARD SPECIFICATION SECTION 280.
4. ALL ESC MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION FOUND ON THE CONSTRUCTION TAB AT: ([HTTP://WWW.IDOT.ILLINOIS.GOV/TRANSPORTATION-SYSTEM/ENVIRONMENT/EROSION-AND-SEDIMENT-CONTROL](http://www.idot.illinois.gov/transportation-system/environment/erosion-and-sediment-control)).
5. THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.
6. THE CONTRACTOR SHALL CHECK ALL ESC MEASURES WEEKLY AND AFTER EACH RAINFALL, 0.5 INCHES OR GREATER IN A 24 HOUR PERIOD, OR EQUIVALENT SNOWFALL. DURING WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED BY THE CONTRACTOR AFTER EACH SIGNIFICANT SNOWMELT.
7. THE CONTRACTOR SHALL PROVIDE THE RE A PLAN TO ENSURE THAT A STABILIZED FLOW LINE WILL BE PROVIDED DURING STORM SEWER CONSTRUCTION. THE USE OF A STABILIZED FLOW LINE BETWEEN INSTALLED STORM SEWER AND OPEN DISTURBANCE WILL REDUCE THE POTENTIAL FOR THE OFFSITE DISCHARGE OF SEDIMENT-BEARING WATERS, ESPECIALLY WHEN RAIN IS FORECASTED, SO THAT FLOW WILL NOT ERODE. LACK OF APPROVED PLAN OR FAILURE TO COMPLY WILL RESULT IN AN ESC DEFICIENCY DEDUCTION.
8. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCIDENTAL.
9. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OF DISTURBANCE OR IF THE WORK AREA IS TO BE LEFT UNDISTURBED FOR 14 DAYS OR MORE.
10. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.
11. EROSION CONTROL ITEMS ARE CONSIDERED TO BE A HIGH PRIORITY ON THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE RE.
12. "WETLANDS NO INTRUSION" SIGNAGE SHOULD ALSO BE PROVIDED AT THE BOUNDARY OF ALL UN-IMPACTED WETLANDS AND/OR WOUS. INCLUDE TEMPORARY FENCING AND WETLAND SIGNAGE WITHIN THE EROSION AND SEDIMENT CONTROL STRATEGY.

FILE NAME = ...ID160R49_sht_EC_Notes.dgn <b>THE HOH GROUP, INC.</b> <small>ARCHITECTS   ENGINEERS</small>	USER NAME = KSUMRAK	DESIGNED - AAF	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION AND SEDIMENT CONTROL GENERAL NOTES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = N/A	CHECKED - BAP	REVISED -			29 & 348	3128-Z4-R&RS	COOK	659	203
PN: 3730	PLOT DATE = 11/30/2023	DATE -	REVISED -	SCALE: NTS      SHEET NO. 1 OF 1 SHEETS      STA. N/A      TO STA. N/A		ILLINOIS FED. AID PROJECT      CONTRACT NO. 60R49				

INLET AND PIPE PROTECTION			IDOT
ROADWAY	STATION	OFFSET	28000500
			EACH
95TH STREET	604+08	LT	1
95TH STREET	604+68	LT	1
95TH STREET	604+90	RT	1
95TH STREET	606+46	LT	1
95TH STREET	607+70	LT	1
95TH STREET	607+80	RT	1
95TH STREET	609+22	LT	1
95TH STREET	609+59	RT	1
95TH STREET	610+43	RT	1
95TH STREET	610+48	LT	1
95TH STREET	611+30	RT	1
95TH STREET	611+70	LT	1
95TH STREET	612+00	RT	1
95TH STREET	612+73	LT	1
95TH STREET	612+82	LT	1
95TH STREET	612+85	RT	1
95TH STREET	612+91	LT	1
95TH STREET	612+95	RT	1
95TH STREET	613+04	RT	1
95TH STREET	613+06	LT	1
95TH STREET	613+15	LT	1
95TH STREET	613+20	RT	1
95TH STREET	613+25	LT	1
95TH STREET	614+45	RT	1
95TH STREET	614+81	LT	1
95TH STREET	615+73	CL	1
95TH STREET	615+73	RT	1
95TH STREET	615+79	LT	1
95TH STREET	615+98	LT	1
95TH STREET	617+34	CL	1
95TH STREET	618+33	RT	1
95TH STREET	619+45	CL	1
95TH STREET	619+81	RT	1
95TH STREET	621+00	LT	1
95TH STREET	621+11	RT	1
95TH STREET	621+89	LT	1
95TH STREET	622+35	RT	1
95TH STREET	623+95	RT	1

INLET AND PIPE PROTECTION			IDOT
ROADWAY	STATION	OFFSET	28000500
			EACH
95TH STREET	624+28	LT	1
95TH STREET	625+09	RT	1
95TH STREET	625+31	LT	1
95TH STREET	627+05	RT	1
95TH STREET	627+37	LT	1
95TH STREET	628+37	LT	1
95TH STREET	628+87	RT	1
95TH STREET	629+61	LT	1
95TH STREET	630+31	LT	1
95TH STREET	631+38	RT	1
95TH STREET	631+41	LT	1
95TH STREET	632+30	LT	1
95TH STREET	633+17	RT	1
95TH STREET	633+29	LT	1
95TH STREET	634+10	LT	1
95TH STREET	635+02	LT	1
95TH STREET	635+40	RT	1
95TH STREET	635+84	LT	1
HARLEM AVE	307+19	LT	1
HARLEM AVE	308+39	RT	1
HARLEM AVE	309+00	LT	1
HARLEM AVE	309+43	RT	1
HARLEM AVE	313+25	LT	1
HARLEM AVE	314+96	RT	1
HARLEM AVE	315+09	LT	1
HARLEM AVE	316+43	RT	1
HARLEM AVE	316+68	LT	1
HARLEM AVE	317+28	RT	1
HARLEM AVE	323+14	LT	1
HARLEM AVE	323+38	RT	1
HARLEM AVE	323+54	LT	1
HARLEM AVE	323+90	RT	1
HARLEM AVE	324+24	LT	1
HARLEM AVE	324+29	RT	1
HARLEM AVE	324+48	LT	1

INLET AND PIPE PROTECTION			IDOT
ROADWAY	STATION	OFFSET	28000500
			EACH
HARLEM AVE	325+00	LT	1
HARLEM AVE	325+07	RT	1
HARLEM AVE	325+73	LT	1
HARLEM AVE	325+78	RT	1
HARLEM AVE	326+69	RT	1
HARLEM AVE	327+88	RT	1
HARLEM AVE	329+00	RT	1
HARLEM AVE	330+18	RT	1
HARLEM AVE	331+00	RT	1
HARLEM AVE	331+04	LT	1
HARLEM AVE	331+24	LT	1
HARLEM AVE	331+66	RT	1
HARLEM AVE	333+44	RT	1
HARLEM AVE	333+64	LT	1
HARLEM AVE	334+23	RT	1
RAMP E	5+73	CL	1
RAMP E	6+54	RT	1
RAMP E	10+73	RT	1
RAMP E	14+00	LT	1
RAMP E	14+00	RT	1
RAMP E2	26+44	LT	1
RAMP G	21+03	RT	1
RAMP G	21+03	LT	1
RAMP I	5+35	RT	1
RAMP I	10+77	LT	1
RAMP I	11+68	RT	1
RAMP J	4+46	RT	1
RAMP J	4+98	RT	1
TOTAL			101

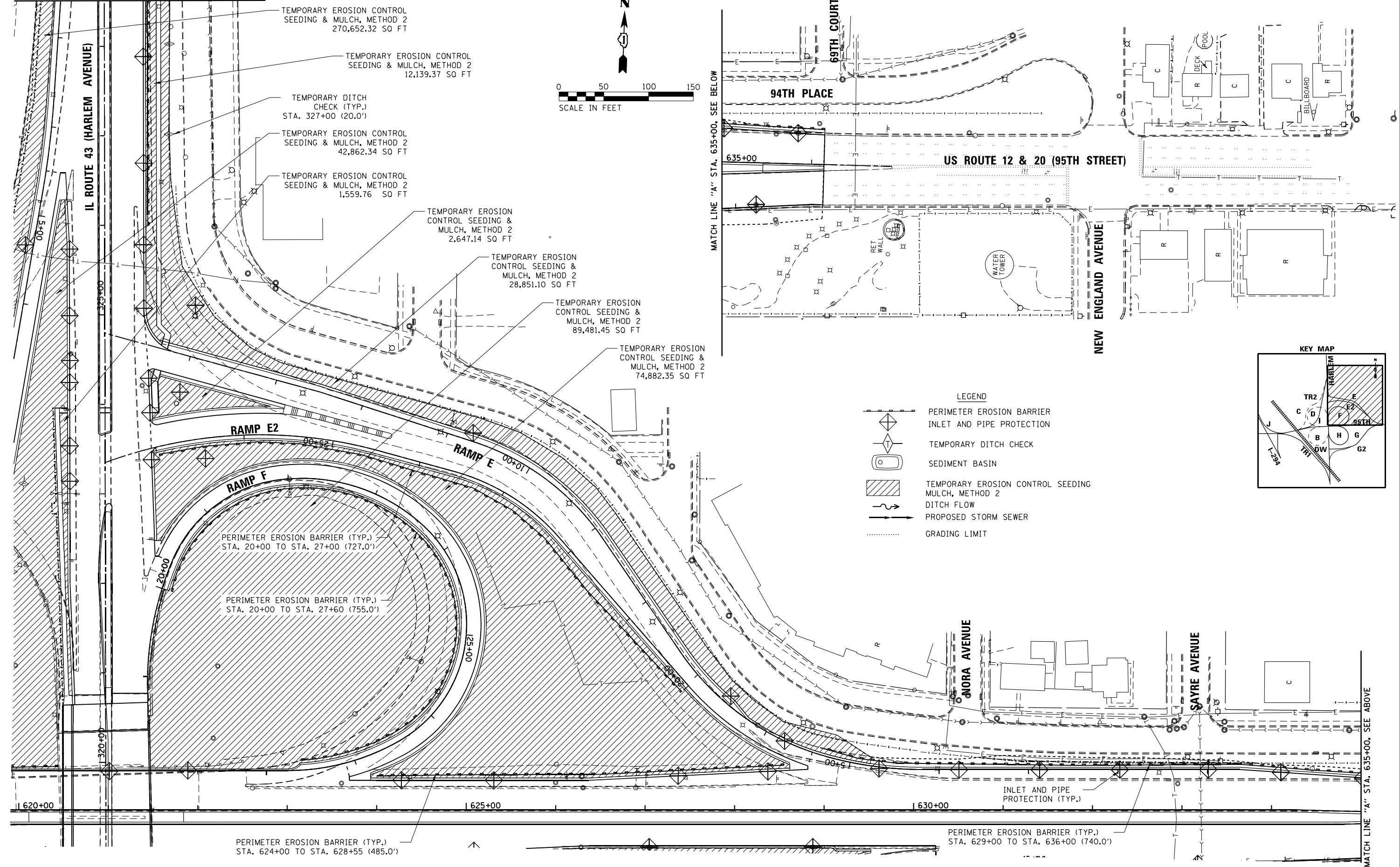
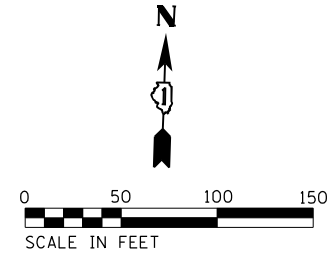
PERIMETER EROSION BARRIER				ORIGINAL LENGTH	IDOT
ROADWAY	STATION TO STATION		OFFSET	UPDATE	ITEM 28000400
	FOOT	FOOT		FOOT	
95TH ST.	600+60	602+11	LT	151	161
95TH ST.	612+98	614+10	LT	112	122
95TH ST.	618+30	620+44	LT	220	240
95TH ST.	624+00	628+55	LT	455	485
95TH ST.	628+95	636+14	LT	722	762
HARLEM AVE	312+73	315+08	LT	235	255
HARLEM AVE	316+60	318+00	LT	140	150
HARLEM AVE	326+00	330+25	RT	425	455
RAMP G	20+40	22+30	LT	182	192
RAMP G	23+20	27+30	LT	400	420
RAMP G2	33+32	43+50	RT	1,006	1,066
RAMP E2	20+00	27+00	LT	687	727
RAMP F	20+00	27+60	RT	715	755
RAMP H	3+30	12+36	RT	850	900
RAMP I	6+07	14+95	RT	873	923
TOTAL					7,613

TEMPORARY EROSION CONTROL SEEDING & MULCH			IDOT	
ROADWAY	LOCATION DESCRIPTION	AREA SF	TEMPORARY EROSION CONTROL SEEDING (100 LB/ACRES)	MULCH, METHOD 2
			28000250 POUND	25100115 ACRE
95TH ST.	OUTSIDE RAMP J TO DRIVEWAY	12,135.37	56	0.28
95TH ST.	OUTSIDE RAMP J DRIVEWAY TO TO RR TRACKS	42,767.50	196	0.98
95TH ST.	BETWEEN RAMP I & NW CORNER OF 95TH ST & HARLEM AVE	42,862.34	197	0.98
95TH ST.	NORTH OF 95TH ST, BETWEEN RAMP E2 & RAMP F	74,882.35	344	1.72
95TH ST.	NORTH OF 95TH ST, BETWEEN RAMP H & RAMP G	93,739.70	430	2.15
HARLEM AVE.	BETWEEN HARLEM AND NW SIDEWALK	1,559.76	7	0.04
HARLEM AVE.	BETWEEN HARLEM AND NE SIDEWALK	12,139.37	56	0.28
RAMP E	OUTSIDE RAMP E & N. HARLEM AVE. SIDEWALK	28,851.10	132	0.66
RAMP E	BETWEEN RAMP E & RAMP E2	2,647.14	12	0.06
RAMP F	INSIDE RAMP F	89,481.45	411	2.05
RAMP G	BETWEEN RAMP G & RAMP G2	7,731.88	35	0.18
RAMP H	INSIDE RAMP H	77,034.82	354	1.77
RAMP I	OUTSIDE OF RAMP I	270,652.32	1243	6.21
ACCESS ROAD	SW CORNER OF 95TH ST & HARLEM AVE	227,107.50	1043	5.21
TOTAL			4516	22.57

NOTES: TEMPORARY EROSION CONTROL SEEDING QUANTITY IS ASSUMED TO BE APPLIED TWICE

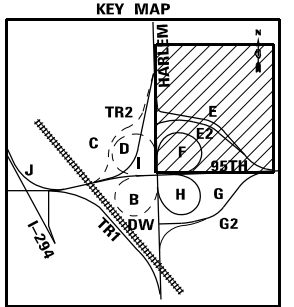
TEMPORARY DITCH CHECKS			IDOT
ROADWAY	STATION	OFFSET	28000305
			FOOT
95TH ST.	608+00	LT	20
95TH ST.	609+00	LT	20
95TH ST.	615+00	RT	20
95TH ST.	616+50	RT	20
95TH ST.	619+00	RT	20
HARLEM AVE	327+00	RT	20
HARLEM AVE	328+00	RT	20
HARLEM AVE	330+00	RT	20
HARLEM AVE	331+50	RT	20
RAMP I	8+00	LT	20
RAMP I	9+00	LT	20
RAMP I	10+00	LT	20
TOTAL			240

MATCH LINE "B" STA. 327+30

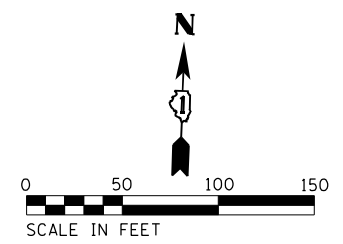
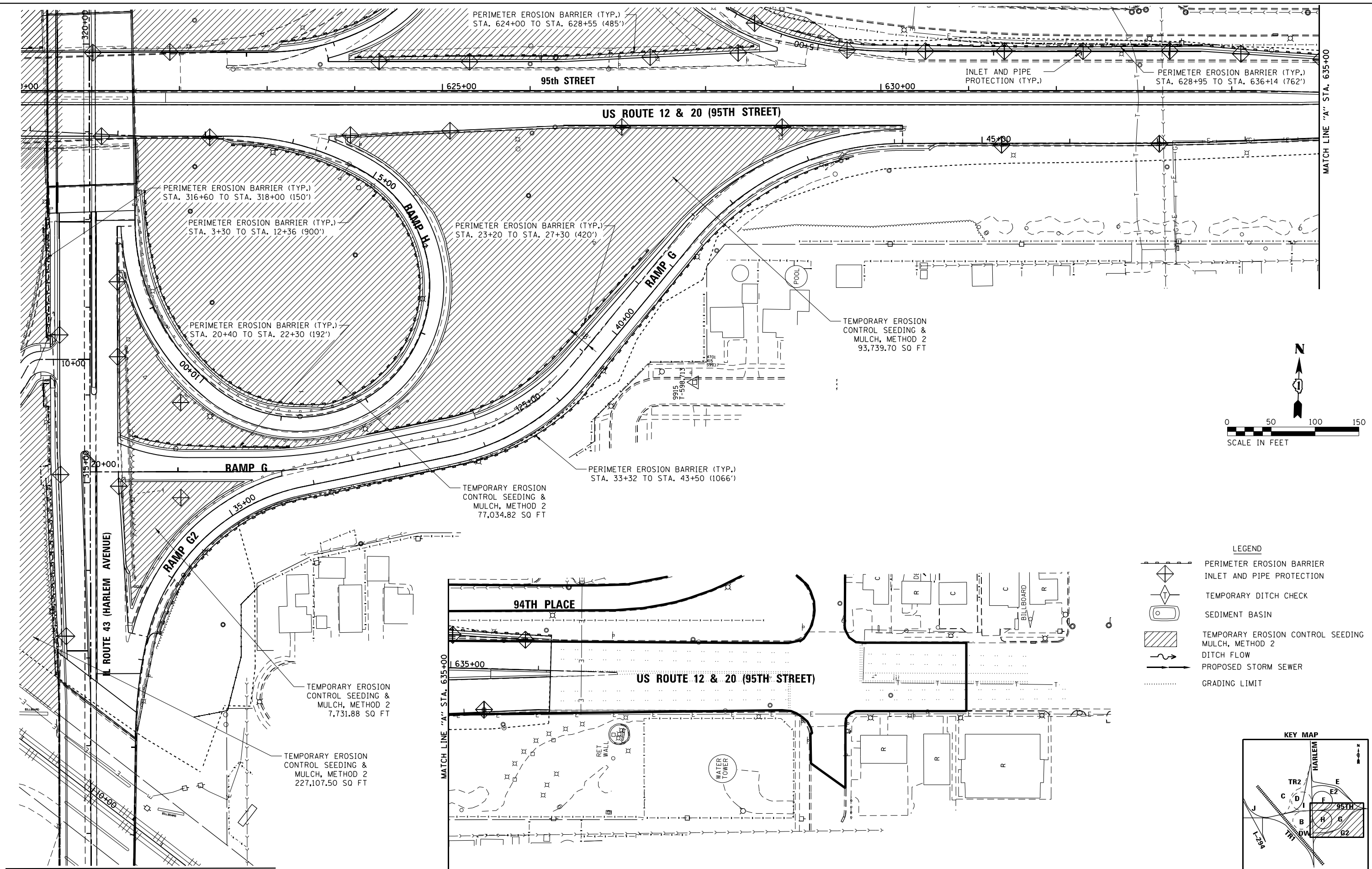


- TEMPORARY EROSION CONTROL SEEDING & MULCH, METHOD 2  
270,652.32 SQ FT
- TEMPORARY EROSION CONTROL SEEDING & MULCH, METHOD 2  
12,139.37 SQ FT
- TEMPORARY DITCH CHECK (TYP.)  
STA. 327+00 (20.0')
- TEMPORARY EROSION CONTROL SEEDING & MULCH, METHOD 2  
42,862.34 SQ FT
- TEMPORARY EROSION CONTROL SEEDING & MULCH, METHOD 2  
1,559.76 SQ FT
- TEMPORARY EROSION CONTROL SEEDING & MULCH, METHOD 2  
2,647.14 SQ FT
- TEMPORARY EROSION CONTROL SEEDING & MULCH, METHOD 2  
28,851.10 SQ FT
- TEMPORARY EROSION CONTROL SEEDING & MULCH, METHOD 2  
89,481.45 SQ FT
- TEMPORARY EROSION CONTROL SEEDING & MULCH, METHOD 2  
74,882.35 SQ FT

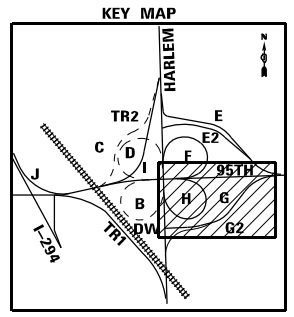
- LEGEND
- PERIMETER EROSION BARRIER
  - INLET AND PIPE PROTECTION
  - TEMPORARY DITCH CHECK
  - SEDIMENT BASIN
  - TEMPORARY EROSION CONTROL SEEDING MULCH, METHOD 2
  - DITCH FLOW
  - PROPOSED STORM SEWER
  - GRADING LIMIT











FILE NAME = ...10160R49_sht_Eros_1_NE.dgn <b>THE HOH GROUP, INC.</b> ARCHITECTS   ENGINEERS PN: 3730	USER NAME = KSUMRAK	DESIGNED - AAF	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>US ROUTE 12 &amp; 20 (95TH STREET),</b> <b>ILLINOIS ROUTE 43 (HARLEM AVENUE), RAMPS E, E2, &amp; F</b> <b>EROSION AND SEDIMENT CONTROL PLANS</b>		F.A.P. RTE. 29 & 348	SECTION 3128-Z4-R&R5	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 205
	PLOT SCALE = N/A	CHECKED - BAP	REVISED -		SCALE: 1"=50'	SHEET NO. 1 OF 6 SHEETS	STA. N/A TO STA. N/A	CONTRACT NO. 60R49 ILLINOIS FED. AID PROJECT			

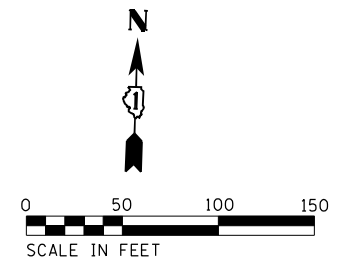


- LEGEND**
- PERIMETER EROSION BARRIER
  - INLET AND PIPE PROTECTION
  - TEMPORARY DITCH CHECK
  - SEDIMENT BASIN
  - TEMPORARY EROSION CONTROL SEEDING & MULCH, METHOD 2
  - DITCH FLOW
  - PROPOSED STORM SEWER
  - GRADING LIMIT



MATCH LINE "C" STA. 310+60 FILE NAME = ...10160R49_sht_Eros_2_SE.dgn <b>THE HOH GROUP, INC.</b> ARCHITECTS   ENGINEERS		USER NAME = KSUNIRAK DESIGNED - AAF DRAWN - AAF CHECKED - BAP DATE -	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>		<b>US ROUTE 12 &amp; 20 (95TH STREET),</b> <b>ILLINOIS ROUTE 43 (HARLEM AVENUE), RAMPS G, G2, AND H</b> <b>EROSION AND SEDIMENT CONTROL PLANS</b>		F.A.P. RTE. 29 & 348 SECTION 3128-Z1-R&R5 COUNTY COOK TOTAL SHEETS 659 SHEET NO. 206 CONTRACT NO. 60R49	SCALE: 1"=50' SHEET NO. 2 OF 6 SHEETS STA. N/A TO STA. N/A	ILLINOIS FED. AID PROJECT
---	--	--	--	---	--	---	--	--	--	---------------------------

- LEGEND**
-  PERIMETER EROSION BARRIER
  -  INLET AND PIPE PROTECTION
  -  TEMPORARY DITCH CHECK
  -  SEDIMENT BASIN
  -  TEMPORARY EROSION CONTROL SEEDING  
MULCH, METHOD 2
  -  DITCH FLOW
  -  PROPOSED STORM SEWER
  -  GRADING LIMIT



TEMPORARY EROSION CONTROL SEEDING & MULCH, METHOD 2  
270,652.32 SQ FT

PERIMETER EROSION BARRIER (TYP.)  
STA. 612+980 TO STA. 614+10 (122')

INLET AND PIPE PROTECTION (TYP.)

MATCH LINE "D" STA. 613+00

CSX RAILROAD

PUMP STATION TO BE CONSTRUCTED IN CONTRACT 62V28

PERIMETER EROSION BARRIER (TYP.)  
STA. 312+73 TO STA. 315+08 (255')

PUMP STATION DRIVE

IL ROUTE 43 (HARLEM AVE.)

HARLEM AVENUE

95th STREET

US ROUTE 12 & 20 (95TH STREET)

TEMPORARY EROSION CONTROL SEEDING & MULCH, METHOD 2  
77,034.82 SQ FT

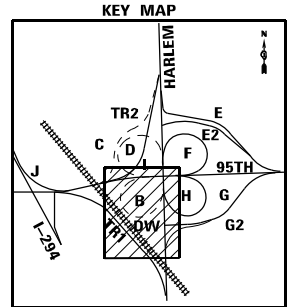
TEMPORARY EROSION CONTROL SEEDING & MULCH, METHOD 2  
93,739.70 SQ FT

TEMPORARY EROSION CONTROL SEEDING & MULCH, METHOD 2  
7,731.88 SQ FT

RAMP H 00+01


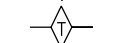


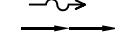
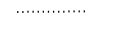


RAMP G

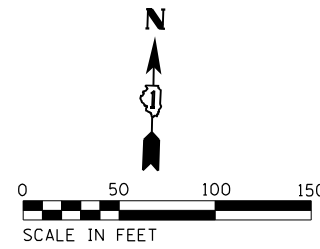
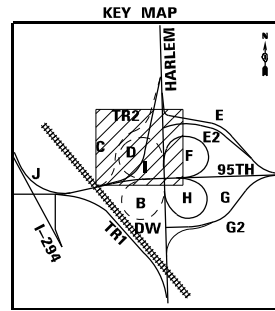
RAMP G2



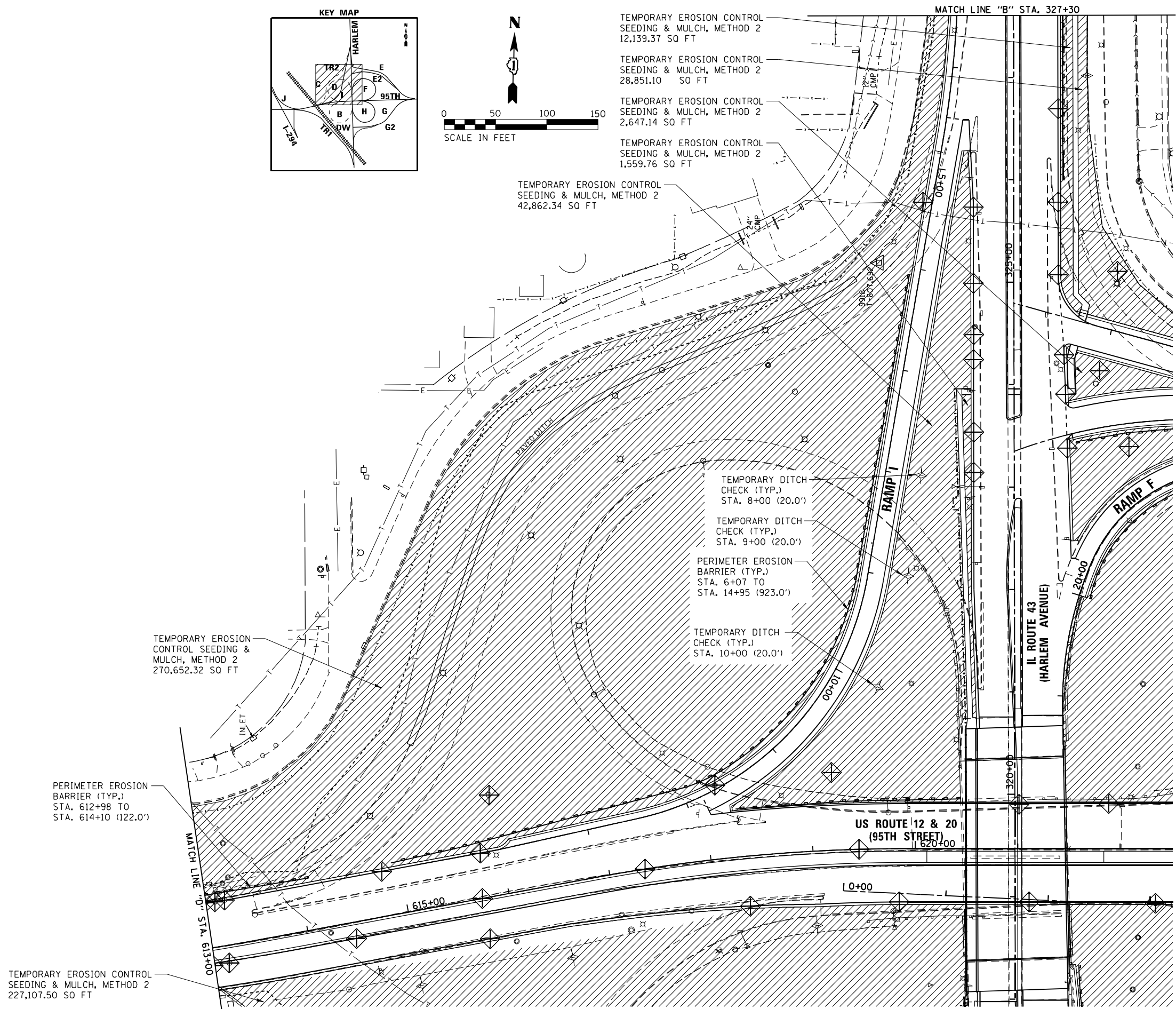
MATCH LINE "C" STA. 310+60

FILE NAME = ...1D160R49_sht_Eros_3_SW.dgn <b>THE HOH GROUP, INC.</b> ARCHITECTS   ENGINEERS	USER NAME = KSUNRAK	DESIGNED - AAF	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>US ROUTE 12 &amp; 20 (95TH STREET), ILLINOIS ROUTE 43 (HARLEM AVENUE), PUMP STATION DRIVE EROSION AND SEDIMENT CONTROL PLANS</b>		F.A.P. SECTION 29 & 348 3128-Z-1-R&R5	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 207
	PLOT SCALE = N/A	CHECKED - BAP	REVISED -		SCALE: 1"=50'	SHEET NO. 3 OF 6 SHEETS	STA. N/A TO STA. N/A	CONTRACT NO. 60R49		
PN: 3730	PLOT DATE = 11/30/2023	DATE -	REVISED -	ILLINOIS FED. AID PROJECT						

- LEGEND**
-  PERIMETER EROSION BARRIER
  -  INLET AND PIPE PROTECTION
  -  TEMPORARY DITCH CHECK
  -  SEDIMENT BASIN
  -  TEMPORARY EROSION CONTROL SEEDING & MULCH, METHOD 2
  -  DITCH FLOW
  -  PROPOSED STORM SEWER
  -  GRADING LIMIT



- TEMPORARY EROSION CONTROL SEEDING & MULCH, METHOD 2  
12,139.37 SQ FT
- TEMPORARY EROSION CONTROL SEEDING & MULCH, METHOD 2  
28,851.10 SQ FT
- TEMPORARY EROSION CONTROL SEEDING & MULCH, METHOD 2  
2,647.14 SQ FT
- TEMPORARY EROSION CONTROL SEEDING & MULCH, METHOD 2  
1,559.76 SQ FT
- TEMPORARY EROSION CONTROL SEEDING & MULCH, METHOD 2  
42,862.34 SQ FT



FILE NAME = ...1D160R49_sht_Eros_4_NW.dgn	USER NAME = KSUNIRAK	DESIGNED - AAF	REVISED -
<b>THE HOH GROUP, INC.</b> ARCHITECTS   ENGINEERS	PLOT SCALE = N/A	DRAWN - AAF	REVISED -
PN: 3730	PLOT DATE = 11/30/2023	CHECKED - BAP	REVISED -
		DATE -	REVISED -

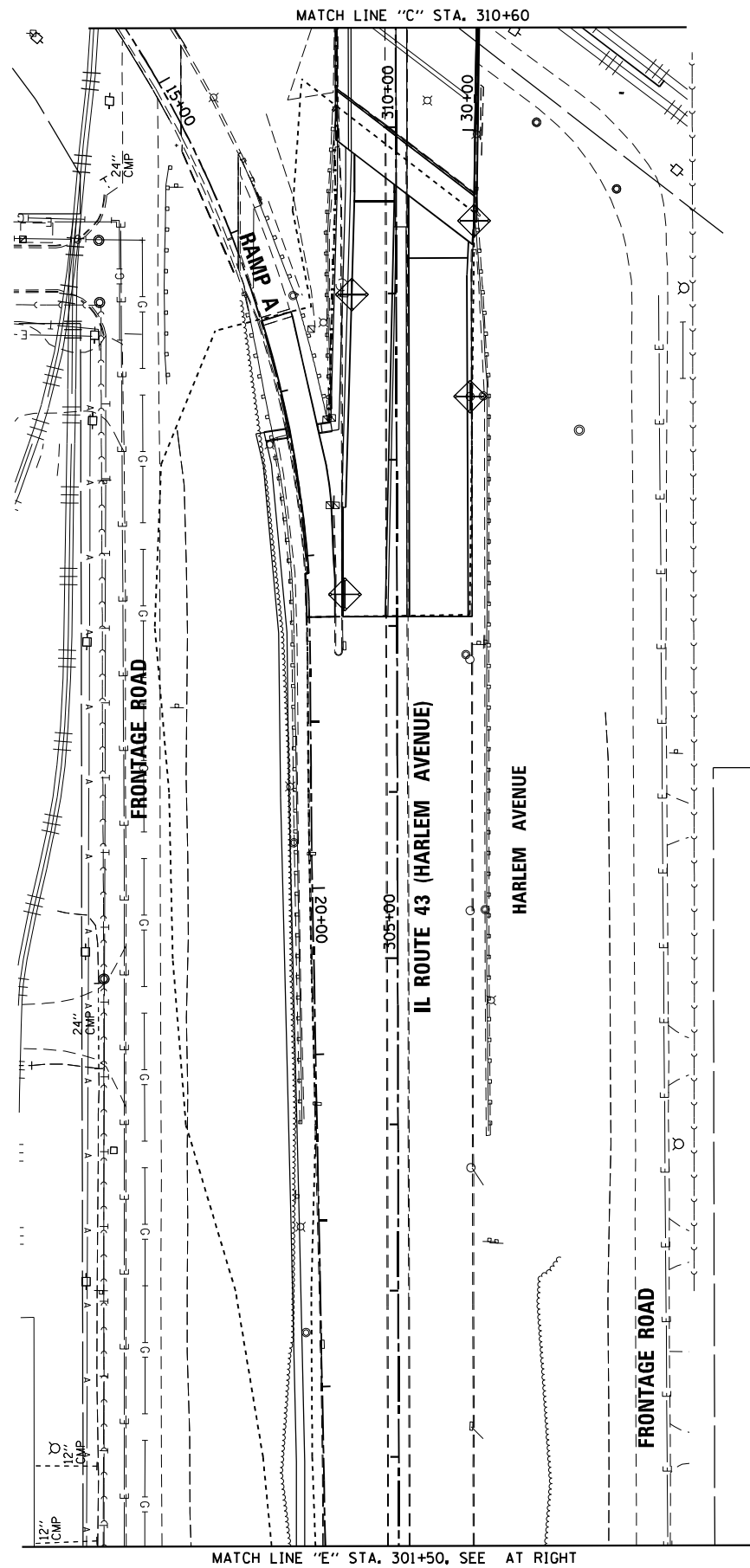
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 12 & 20 (95TH STREET),  
ILLINOIS ROUTE 43 (HARLEM AVENUE), RAMP I  
EROSION AND SEDIMENT CONTROL PLANS**

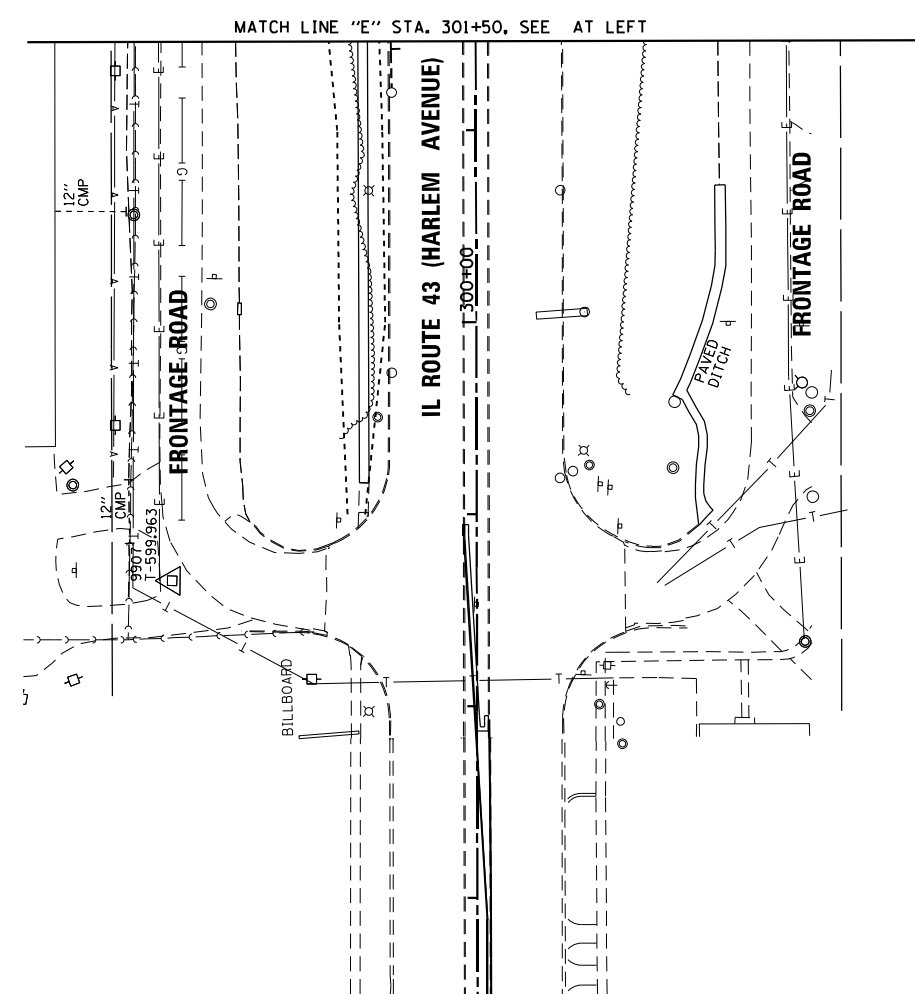
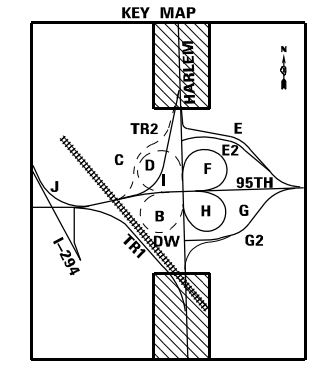
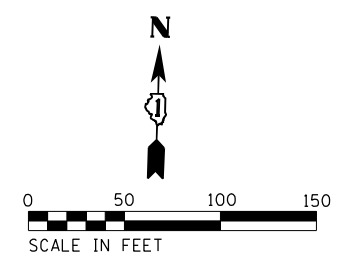
SCALE: 1"=50'    SHEET NO. 4 OF 6 SHEETS    STA. N/A TO STA. N/A

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&R5	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 208
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60R49	





- LEGEND**
- PERIMETER EROSION BARRIER
  - INLET AND PIPE PROTECTION
  - TEMPORARY DITCH CHECK
  - SEDIMENT BASIN
  - TEMPORARY EROSION CONTROL SEEDING MULCH, METHOD 2
  - DITCH FLOW
  - PROPOSED STORM SEWER
  - GRADING LIMIT



TEMPORARY EROSION CONTROL SEEDING & MULCH, METHOD 2  
28,851.10 SQ FT

TEMPORARY EROSION CONTROL SEEDING & MULCH, METHOD 2  
12,139.37 SQ FT

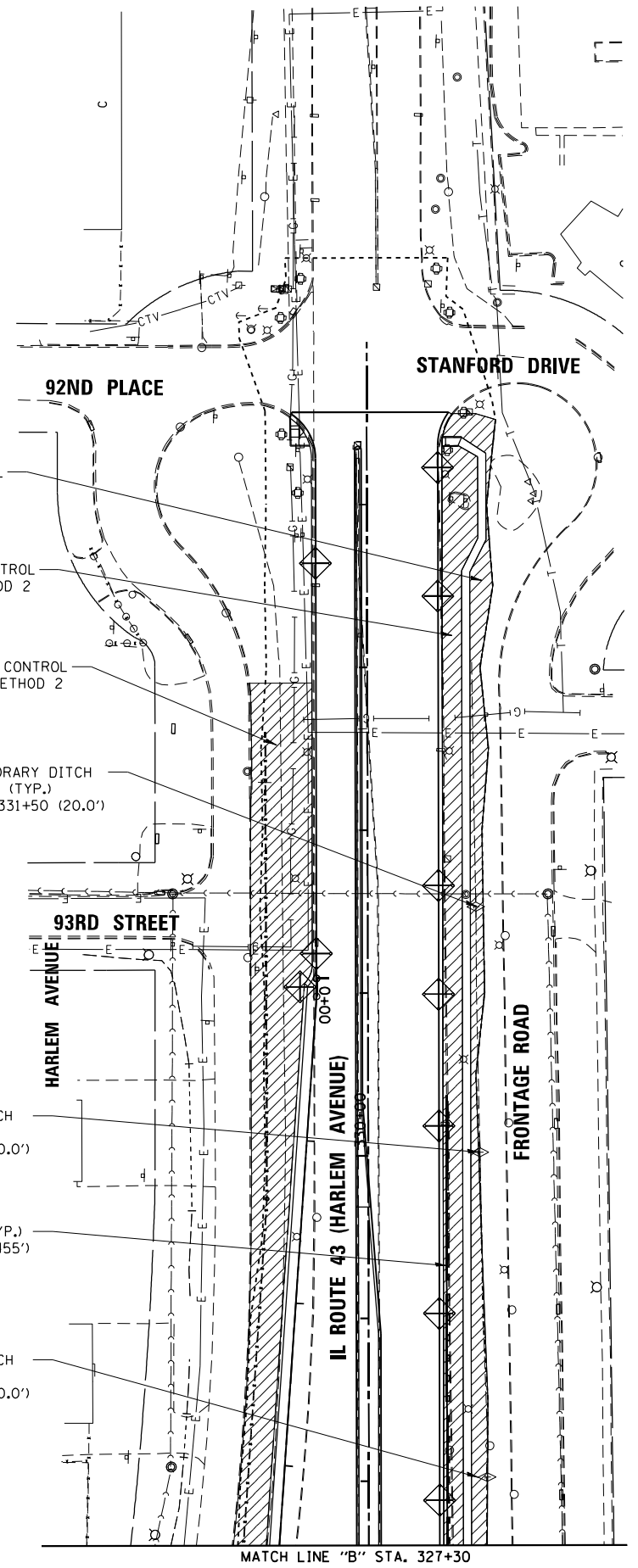
TEMPORARY EROSION CONTROL SEEDING & MULCH, METHOD 2  
270,652.32 SQ FT

TEMPORARY DITCH CHECK (TYP.)  
STA. 331+50 (20.0')

TEMPORARY DITCH CHECK (TYP.)  
STA. 330+00 (20.0')

PERIMETER EROSION BARRIER (TYP.)  
STA. 326+00 TO STA. 330+25 (455')

TEMPORARY DITCH CHECK (TYP.)  
STA. 328+00 (20.0')



FILE NAME = ...10160R49_sht_Eros_5_Harlem_Ends.dwg	DESIGNED - AAF	REVISER NAME = KSUNIRAK	REVISOR -
THE HOH GROUP, INC.	DRAWN - AAF	PLOT SCALE = N/A	REVISOR -
ARCHITECTS   ENGINEERS	CHECKED - BAP	PLOT DATE = 11/30/2023	REVISOR -
PN: 3730	DATE -		REVISOR -

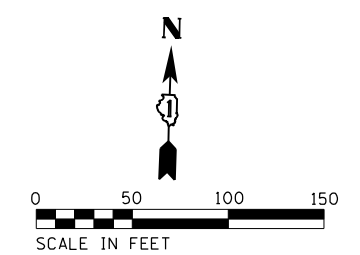
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 43 (HARLEM AVENUE)  
EROSION AND SEDIMENT CONTROL PLANS**

SCALE: 1"=50'

SHEET NO. 5 OF 6 SHEETS    STA. N/A    TO STA. N/A

F.A.P. RTE. 29 & 348	SECTION 3128-Z-1-R&R5	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 209
				CONTRACT NO. 60R49
ILLINOIS FED. AID PROJECT				



TEMPORARY EROSION CONTROL SEEDING & MULCH, METHOD 2  
270,652.32 SQ FT

TEMPORARY EROSION CONTROL SEEDING & MULCH, METHOD 2  
12,135.37 SQ FT

TEMPORARY EROSION CONTROL SEEDING & MULCH, METHOD 2  
42,767.50 SQ FT

TEMPORARY DITCH CHECK (TYP.)  
STA. 609+00 (20')

TEMPORARY DITCH CHECK (TYP.)  
STA. 608+00 (20')

PERIMETER EROSION BARRIER (TYP.)  
STA. 600+60 TO  
STA. 602+11 (161.0')

CSX RAILROAD

US ROUTE 12 & 20 (95TH STREET)

INTERSTATE 294  
FAI 294 & TRI-STATE TOLLWAY

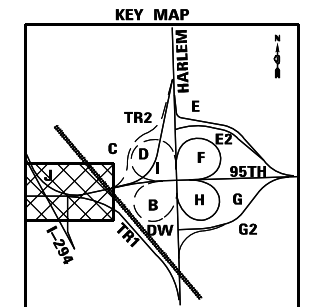
RAMP TO NB I-294

RAMP FROM NB I-294

RAMP A

MATCH LINE "D" STA. 613+00

- LEGEND**
- PERIMETER EROSION BARRIER
  - INLET AND PIPE PROTECTION
  - TEMPORARY DITCH CHECK
  - SEDIMENT BASIN
  - TEMPORARY EROSION CONTROL SEEDING MULCH, METHOD 2
  - DITCH FLOW
  - PROPOSED STORM SEWER
  - GRADING LIMIT



FILE NAME = ...1D160R49_sht_Eros_6_Rmp_1.dgn	USER NAME = KSUNRAK	DESIGNED - AAF	REVISED -
<b>THE HOH GROUP, INC.</b> ARCHITECTS   ENGINEERS		DRAWN - AAF	REVISED -
	PLOT SCALE = N/A	CHECKED - BAP	REVISED -
PN: 3730	PLOT DATE = 11/30/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**US ROUTE 12 & 20 (95TH STREET), RAMP J  
EROSION AND SEDIMENT CONTROL PLANS**

SCALE: 1"=50'    SHEET NO. 6 OF 6 SHEETS    STA. N/A TO STA. N/A

F.A.P. RTE. 29 & 348	SECTION 3128-Z4-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 210
				CONTRACT NO. 60R49
ILLINOIS FED. AID PROJECT				



Table with columns: ROADWAY, PIPE NO., UPSTREAM (STRUCT., STATION, ELEV.), DOWNSTREAM (STRUCT., STATION, ELEV.), PIPE DIA. (IN), PIPE TYPE, LENGTH, CLASS, SLOPE, and IDOT (TRENCH BACKFILL, PIPE UNDERDR T 1 4, PIPE DRAINS 4, STORM SEW CL A 2 12, STORM SEW CL A 2 15, STORM SEW CL A 2 18, STORM SEW CL A 2 21, STORM SEW CL A 2 24, STORM SEW CL A 2 30, STORM SEW CL A 2 36, STORM SEW CL A 2 42, STORM SEW CL A 2 48, STORM SEW CL A 2 60, STORM SEW CL A 3 60, STORM SEW CL A 2 66, PIPE UNDERDR T 2 6, SS CL A 2 EQR5 60 (7)).

CONTINUE ONTO NEXT SHEET
NOTES: (1) USE REINFORCED CONCRETE PIPE TEE FOR BLIND CONNECTIONS (SEE PIPE TEE SCHEDULES) (2) USE HARLEM AVE. STATIONING (3) ADDITIONAL TRENCH BACKFILL (CU. YDS) AMOUNTS LOCATED IN 'STORM SEWER PIPES & UNDERDRAINS --- CLASS 1' SCHEDULE
(4) PROPOSED STORM SEWER CONNECTION TO EXISTING STORM SEWER (5) ALL WORK UNDER CONTRACT 62V28 (PUMP STATION #25) IS TO BE COORDINATED WITH THIS CONTRACT AS PER THE SPECIAL PROVISION "COOPERATION OF CONTRACTORS AND COORDINATION WITH OVERLAPPING CONTRACTS" (6) TEMPORARY PIPE TO BE REMOVED AFTER PUMP STATION IS COMPLETED. (7) EQUIVALENT 60" = 48"x76" ELLIPTICAL

Project information including: FILE NAME, USER NAME, DESIGNED, DRAWN, CHECKED, DATE, STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION, DRAINAGE SCHEDULES PROPOSED PIPES, SCALE, SHEET NO., COUNTY, CONTRACT NO.













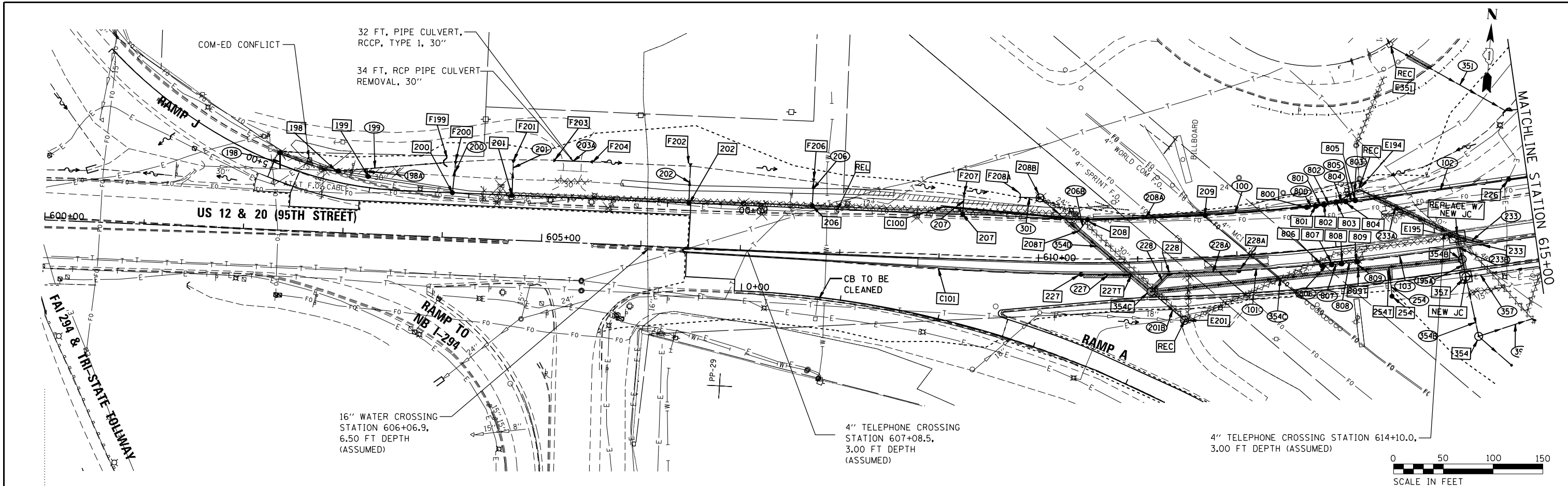
STORM SEWER STRUCTURES ---MANHOLES, JUNCTION CHAMBERS, INLETS, UNDERDRAIN CAPS, AND MISC.														TOP OF GRATE MINUS 1 FT TO TOP OF HIGHEST PIPE	IDOT												REMARKS			
ROADWAY	STRUCT. NO.	STATION	OFFSET*		STRUCTURE TYPE	TOP OF GRATE	INVERT OUT				INVERT IN				MANHOLES TO BE RECONSTRUCTED	MANHOLES, TYPE A, 7'- DIAMETER	PRECAST CONCRETE JUNCTION CHAMBER	MANHOLES, TYPE A, 8'- DIAMETER, TYPE 1 FRAME, CLOSED LID	MANHOLES, TYPE A, 10'- DIAMETER, TYPE 20 FRAME AND GRATE	MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, OPEN LID	MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID	MANHOLES TO BE ADJUSTED	INLETS TO BE ADJUSTED	INLETS TO BE RECONSTRUCTED	DRAINAGE STRUCTURES TO BE RECONSTRUCTED	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID		MANHOLES, TYPE A, 6'-DIAMETER, WITH 2 TYPE 8 FRAME, RESTRICTOR PLATE		
			(FT)	SIDE			PIPE NO.	DIA. (IN.)	ELEV.	DIR.	PIPE NO.	DIA. (IN.)	ELEV.																DIR.	60257900
CONTINUE ON PREVIOUS SHEET																														
RAMP H	J101	5+72.0	76.1	R	EX. MH	599.20	EXISTING	48	N/A	SW	157	18	594.13	SSW	2.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
											157A	18	594.13	NW																
RAMP H	E112	10+78.6	61.4	R	EX. MH	600.10	EXISTING	66	N/A	S	EX. PIPE	66	N/A	N	N/A	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
											EXISTING	48	N/A	NE																
RAMP I	E103	9+82.3	72.1	L	EX. MH	603.50	EXISTING	36	N/A	E	--	--	--	--	N/A	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
RAMP I	E208	11+67.3	3.8	R	EX. MH	595.10	EXISTING	18	N/A	SW	--	--	--	--	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAMP I	E352	7+17.3	130.8	R	EX. MH	602.15	352	24	590.00	SW	EXISTING	24	N/A	NNE	8.77	1	-	-	-	-	-	-	-	-	-	-	-	-	-	(2)
ACCESS ROAD	353	614+64.0	29.3	L	JC	604.35	353	60	576.06	SE	354A	60	576.06	NW	21.92	-	-	1	-	-	-	-	-	-	-	-	-	-	-	(1)
ACCESS ROAD	359	614+72.4	119.5	R	RP	N/A	359	15	574.50	SW	--	--	--	--	N/A	-	-	-	-	-	-	-	-	-	-	-	-	1		
TOTAL															6	3	5	2	1	6	2	11	4	2	2	4	2			
NOTES: (1) REFER TO JUNCTION CHAMBER DETAILS (2) EXISTING TOP OF GRATE EL. 605 (3) RECONSTRUCT AFTER TEMP. PIPE IS REMOVED *SEE GENERAL NOTE NO. 12 (SHEET 2) MH = MAN HOLE JC = JUNCTION CHAMBER PIPE CON. = PIPE CONNECTION U/DR. CAPS = UNDERDRAIN CAPS RP = RESTRICT. PROTECTION (REFER TO DETAIL ON DRAINAGE SHEETS) OF = OVERFLOW STRUCTURE (REFER TO DETAIL ON DRAINAGE SHEETS) ALL WORK UNDER CONTRACT 62V28 (PUMP STATION #25) IS TO BE COORDINATED WITH THIS CONTRACT AS PER THE SPECIAL PROVISION "COOPERATION OF CONTRACTORS AND COORDINATION WITH OVERLAPPING CONTRACTS"																														



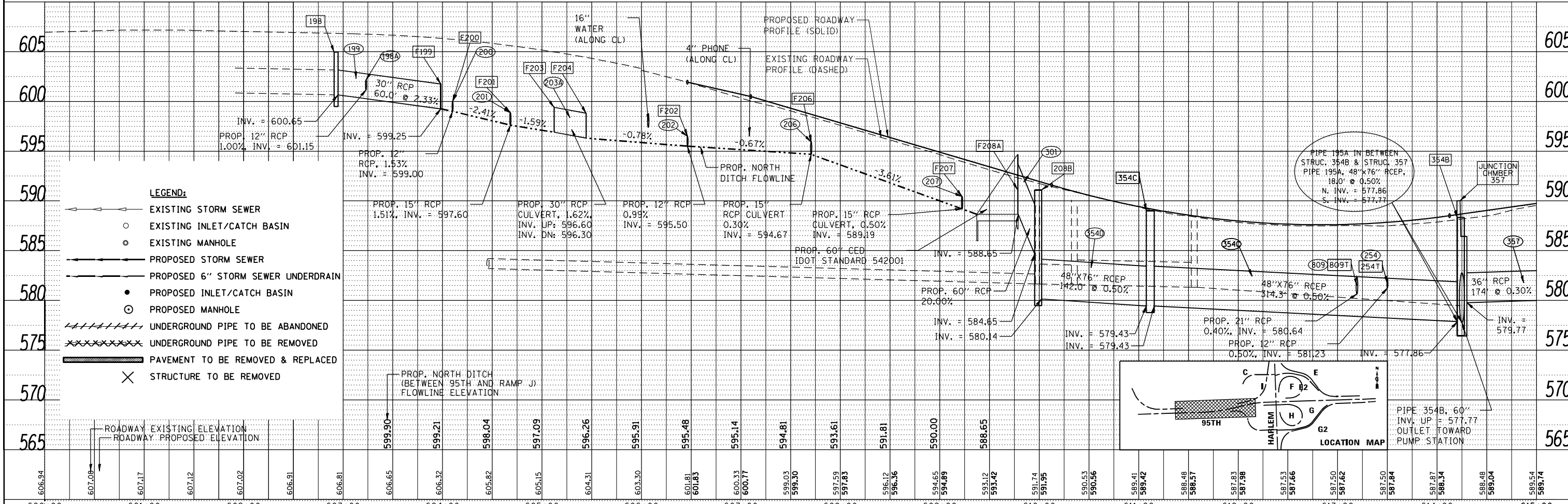




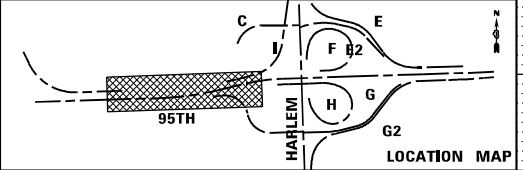
PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	NO. 1	
	NO. 2	
	NO. 3	
	NO. 4	
	NO. 5	
	NO. 6	
	NO. 7	
	NO. 8	
	NO. 9	
	NO. 10	



PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	NO. 1	
	NO. 2	
	NO. 3	
	NO. 4	
	NO. 5	
	NO. 6	
	NO. 7	
	NO. 8	
	NO. 9	
	NO. 10	



- LEGEND:**
- ← EXISTING STORM SEWER
  - EXISTING INLET/CATCH BASIN
  - EXISTING MANHOLE
  - PROPOSED STORM SEWER
  - PROPOSED 6" STORM SEWER UNDERDRAIN
  - PROPOSED INLET/CATCH BASIN
  - ⊙ PROPOSED MANHOLE
  - //// UNDERGROUND PIPE TO BE ABANDONED
  - xxxxxx UNDERGROUND PIPE TO BE REMOVED
  - ▬ PAVEMENT TO BE REMOVED & REPLACED
  - × STRUCTURE TO BE REMOVED

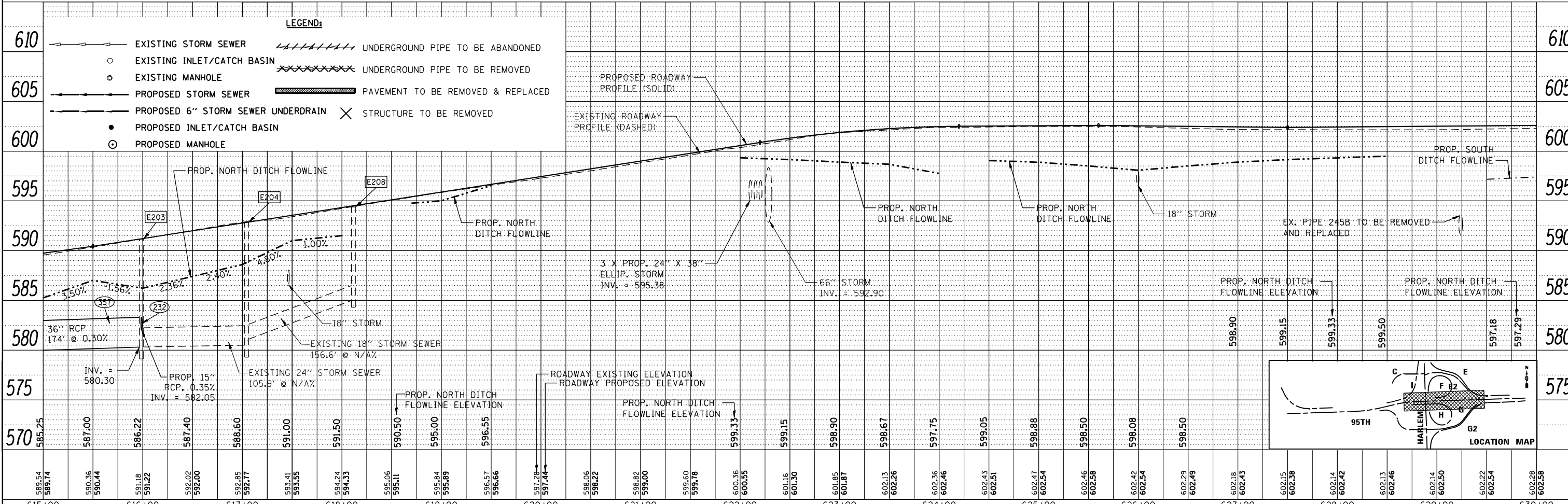
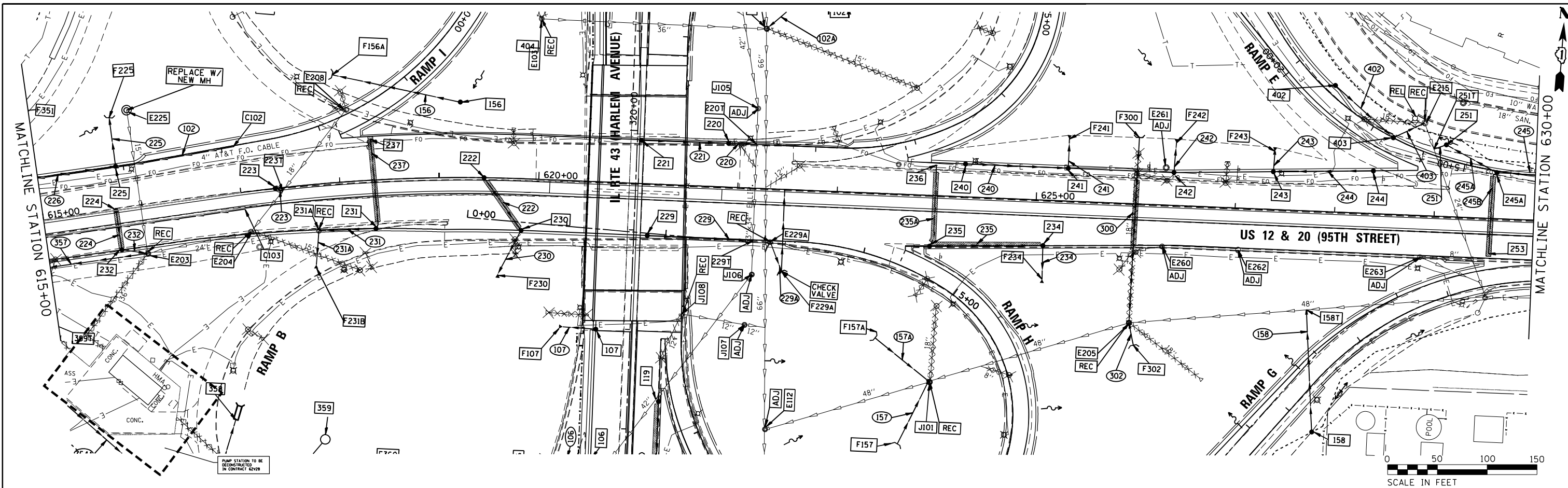


FILE NAME : ...ID160R49_spl_Drain_95th.rvt	USER NAME : KSUMRAK	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>US ROUTE 12 &amp; 20 (95TH STREET)</b> <b>DRAINAGE AND UTILITY PLAN &amp; PROFILE</b>	SECTION 3128-Z-1-R&RS	COUNTY COOK	TOTAL SHEETS 221	SHEET NO. 221
THE HOH GROUP, INC.	PLOT SCALE : = 40,000' / in.	DRAWN -	REVISED -						
ARCHITECTS   ENGINEERS	CHECKED -	REVISED -	REVISED -						
PN: 3730	DATE : 11/30/2023	DATE -	REVISED -						

SCALE: 1"=50' (H) 1"=5' (V) SHEET NO. 1 OF 3 SHEETS STA. 600+00 TO STA. 615+00 ILLINOIS FED. AID PROJECT CONTRACT NO. 60R49

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	NOTE BOOK NO.	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	NOTE BOOK NO.	
	FILE NAME	

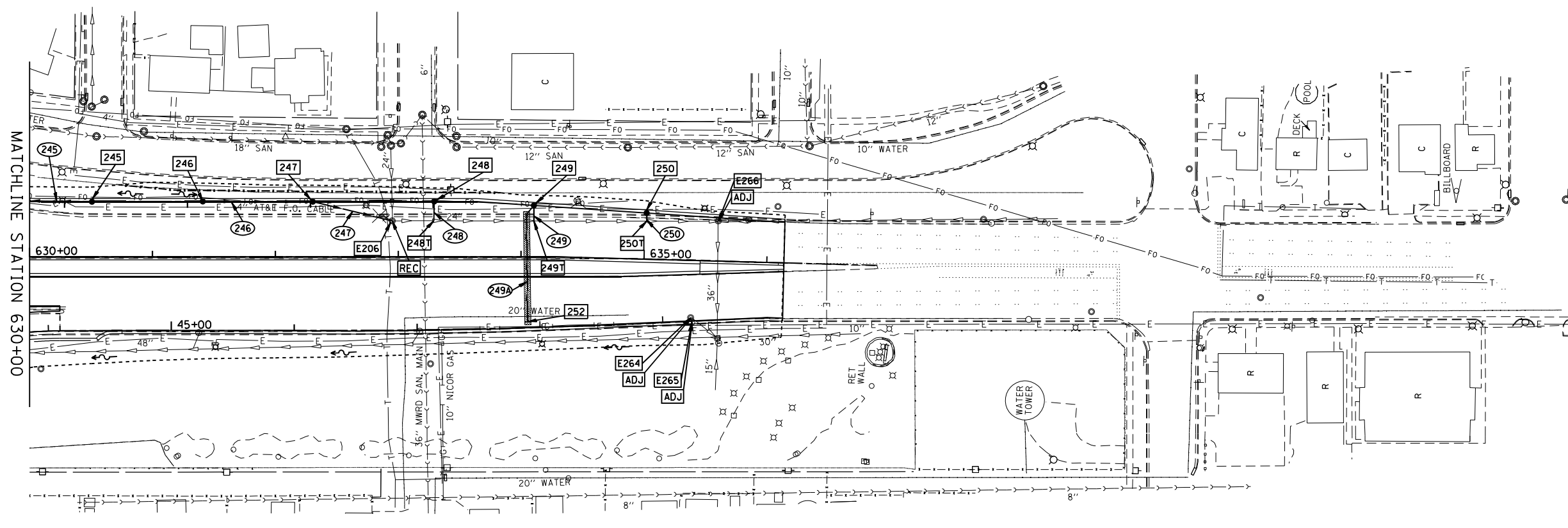


FILE NAME = ...D180R49_shl_Drain_95th.dgn	USER NAME = KSUMRAK	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>US ROUTE 12 &amp; 20 (95TH STREET)</b> <b>DRAINAGE AND UTILITY PLAN &amp; PROFILE</b>	F.A.P. R.T.E. 29 & 348 SECTION 3128-Z-1-R&RS COUNTY COOK TOTAL SHEETS 659 SHEET NO. 222 CONTRACT NO. 60R49			
THE HOH GROUP, INC. ARCHITECTS   ENGINEERS	PN: 3730	PLOT SCALE = 40,000' / in.	DATE = 11/30/2023				SCALE: 1" = 50' (H) 1" = 5' (V)	SHEET NO. 2 OF 3 SHEETS	STA. 615+00 TO STA. 630+00

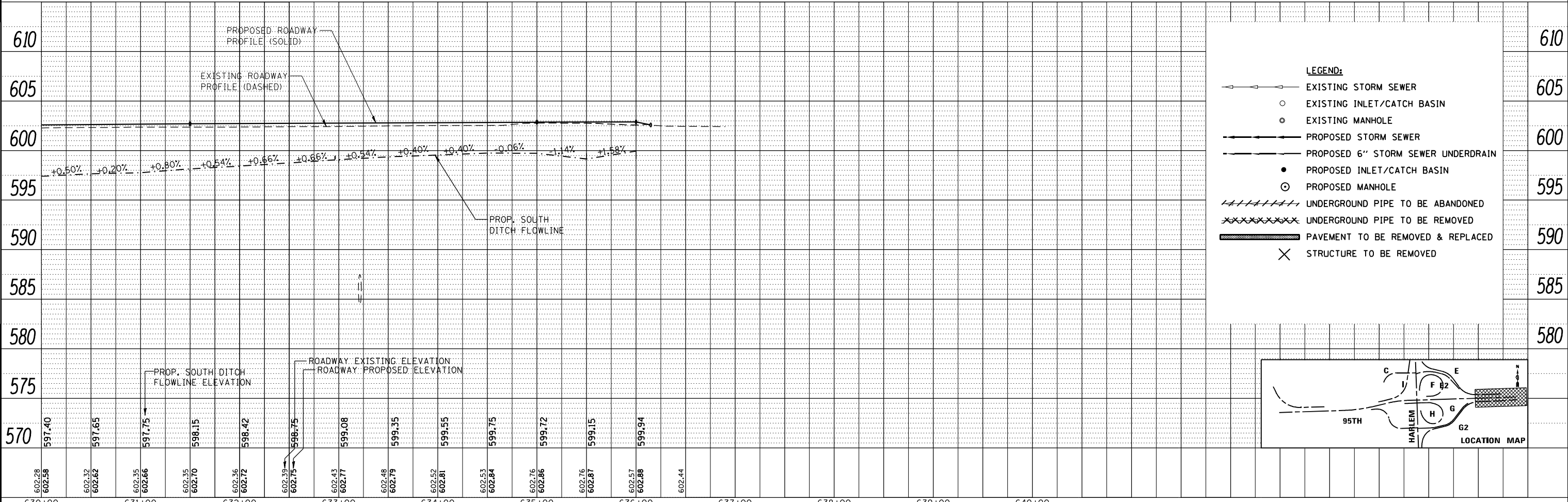
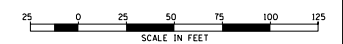


PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	ADD FILE NAME		

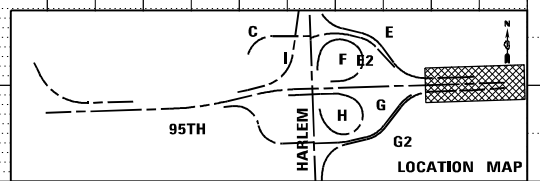
PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	ADD FILE NAME		



9917  
1-602.033

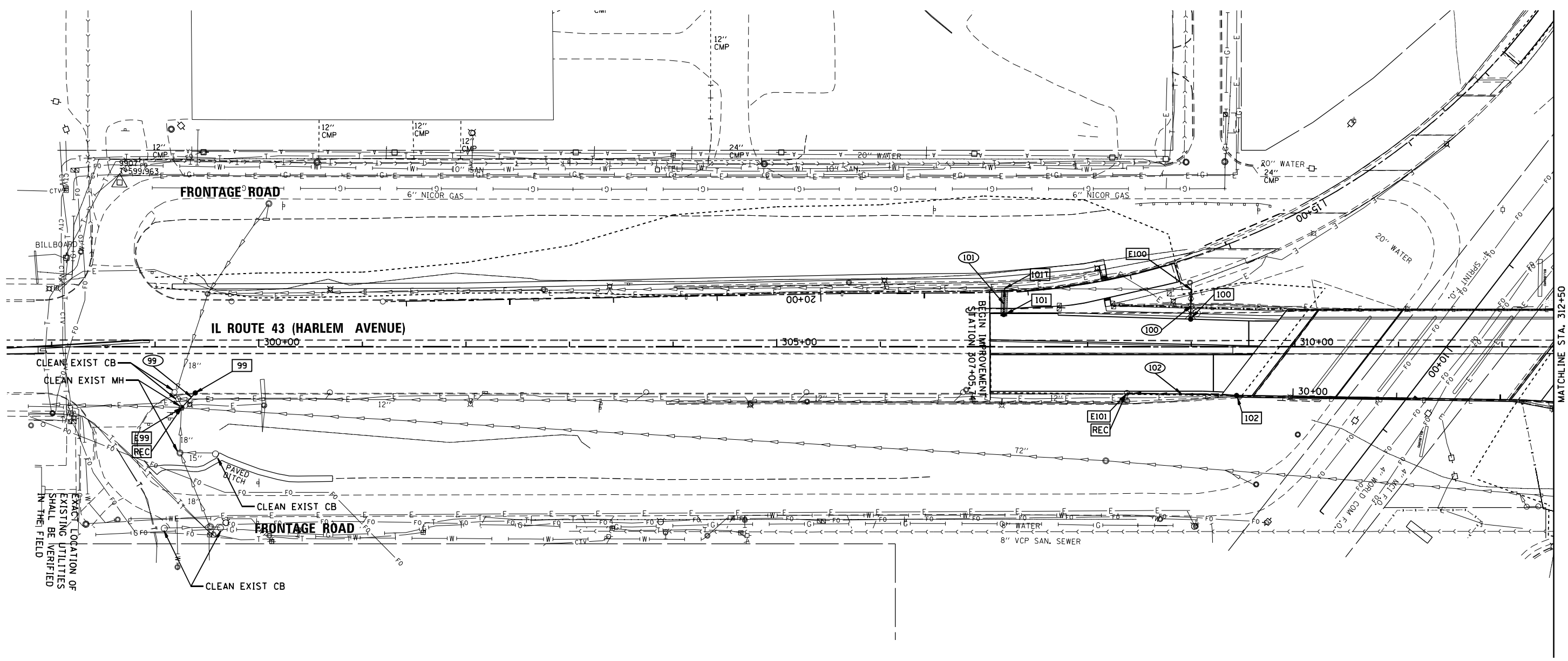


- LEGEND:**
- ← ← ← ← ← EXISTING STORM SEWER
  - EXISTING INLET/CATCH BASIN
  - EXISTING MANHOLE
  - → → → → PROPOSED STORM SEWER
  - — — — — PROPOSED 6" STORM SEWER UNDERDRAIN
  - PROPOSED INLET/CATCH BASIN
  - ⊙ PROPOSED MANHOLE
  - //// //// //// //// //// UNDERGROUND PIPE TO BE ABANDONED
  - XXXXXXXXXX UNDERGROUND PIPE TO BE REMOVED
  - ▬▬▬▬▬▬▬ PAVEMENT TO BE REMOVED & REPLACED
  - × STRUCTURE TO BE REMOVED

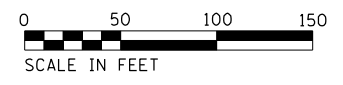
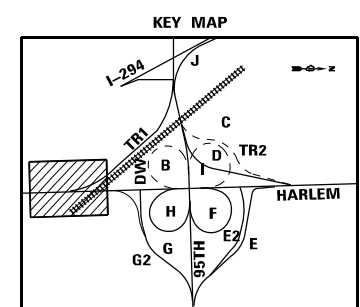


630+00	631+00	632+00	633+00	634+00	635+00	636+00	637+00	638+00	639+00	640+00							
602.28 602.58	602.32 602.62	602.35 602.66	602.35 602.70	602.36 602.72	602.39 602.75	602.43 602.77	602.48 602.79	602.52 602.81	602.53 602.84	602.76 602.86	602.76 602.87	602.57 602.88	602.44				
FILE NAME = ...ID160R49_sht_Drain_95th.rvt		USER NAME = KSUMRAK		DESIGNED -	REVISD -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b> <b>US ROUTE 12 &amp; 20 (95TH STREET)</b> <b>DRAINAGE AND UTILITY PLAN &amp; PROFILE</b>						F.A.P. R.T.E. 29 & 348	SECTION 3128-Z-1-R&R5	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 223	
THE HOH GROUP, INC. ARCHITECTS   ENGINEERS		PLOT SCALE = 40,000' / 1"		CHECKED -	REVISD -							SCALE: 1" = 50' (H) 1" = 5' (V)	SHEET NO. 3 OF 3 SHEETS	STA. 630+00 TO STA. N/A	CONTRACT NO. 60R49		
PN: 3730		PLOT DATE = 11/30/2023		DATE -	REVISD -							ILLINOIS FED. AID PROJECT					

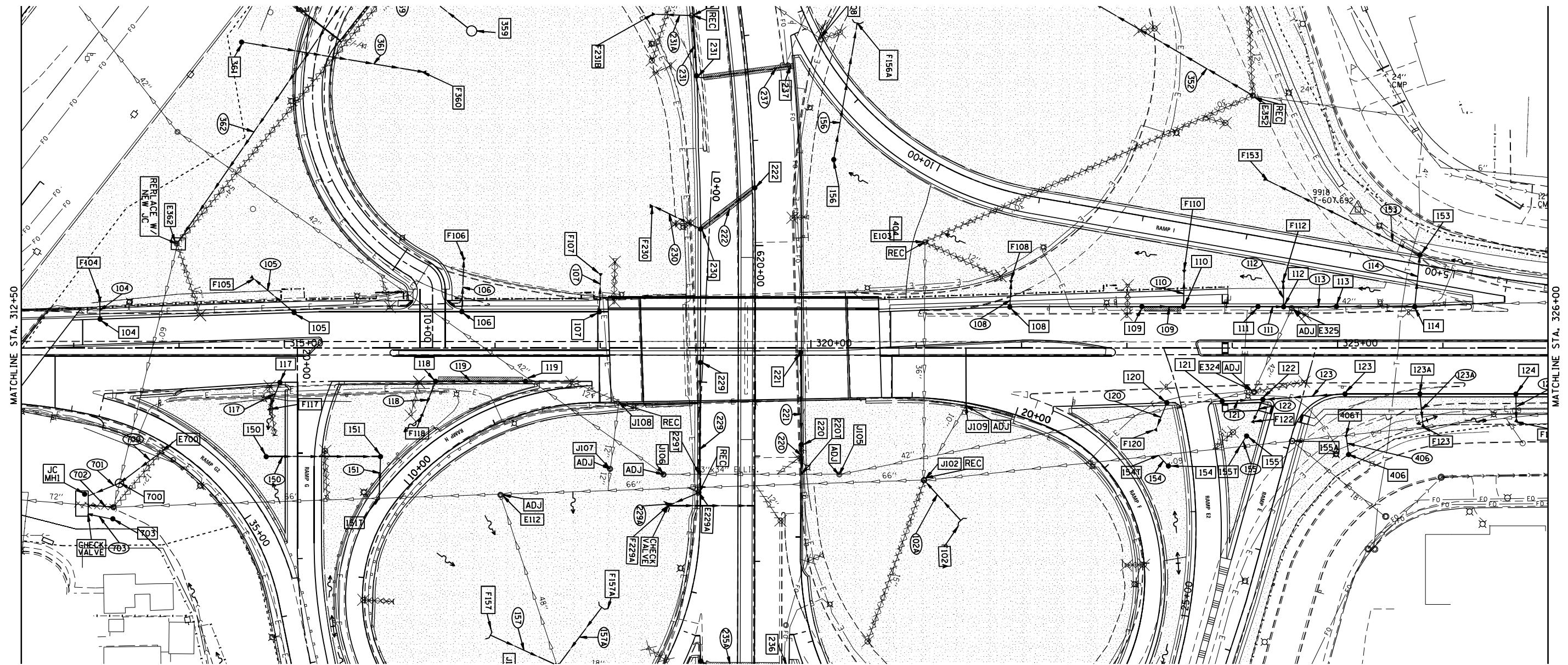




- LEGEND:**
- >—>—> EXISTING STORM SEWER
  - EXISTING INLET/CATCH BASIN
  - EXISTING MANHOLE
  - >—>—> PROPOSED STORM SEWER
  - PROPOSED 6" STORM SEWER UNDERDRAIN
  - PROPOSED INLET/CATCH BASIN
  - ⊙ PROPOSED MANHOLE
  - ////// UNDERGROUND PIPE TO BE ABANDONED
  - XXXXXX UNDERGROUND PIPE TO BE REMOVED
  - ▬ PAVEMENT TO BE REMOVED & REPLACED
  - ✕ STRUCTURE TO BE REMOVED

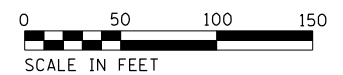
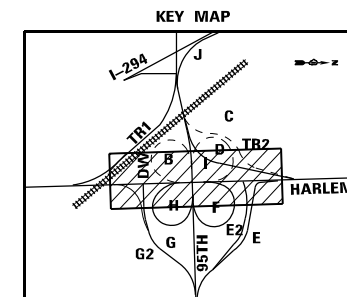


FILE NAME = ...10160R49_sht_Drain_Harlem.dgn <b>THE HOH GROUP, INC.</b> <small>ARCHITECTS   ENGINEERS</small>	USER NAME = KSUMRAK	DESIGNED - AAF	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ILLINOIS ROUTE 43 (HARLEM AVENUE) DRAINAGE AND UTILITY PLAN</b>		F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 224
	PLOT SCALE = N/A	CHECKED - BAP	REVISED -		SCALE: 1"=50'	SHEET NO. 1 OF 3 SHEETS	STA. N/A TO STA. 312+50	CONTRACT NO. 60R49		ILLINOIS FED. AID PROJECT	
PN: 3730	PLOT DATE = 11/30/2023	DATE -	REVISED -								



**LEGEND:**

- >—>—> EXISTING STORM SEWER
- EXISTING INLET/CATCH BASIN
- EXISTING MANHOLE
- >—>—> PROPOSED STORM SEWER
- - - - - PROPOSED 6" STORM SEWER UNDERDRAIN
- PROPOSED INLET/CATCH BASIN
- ⊙ PROPOSED MANHOLE
- ////// UNDERGROUND PIPE TO BE ABANDONED
- XXXXXX UNDERGROUND PIPE TO BE REMOVED
- ▬ PAVEMENT TO BE REMOVED & REPLACED
- ✕ STRUCTURE TO BE REMOVED



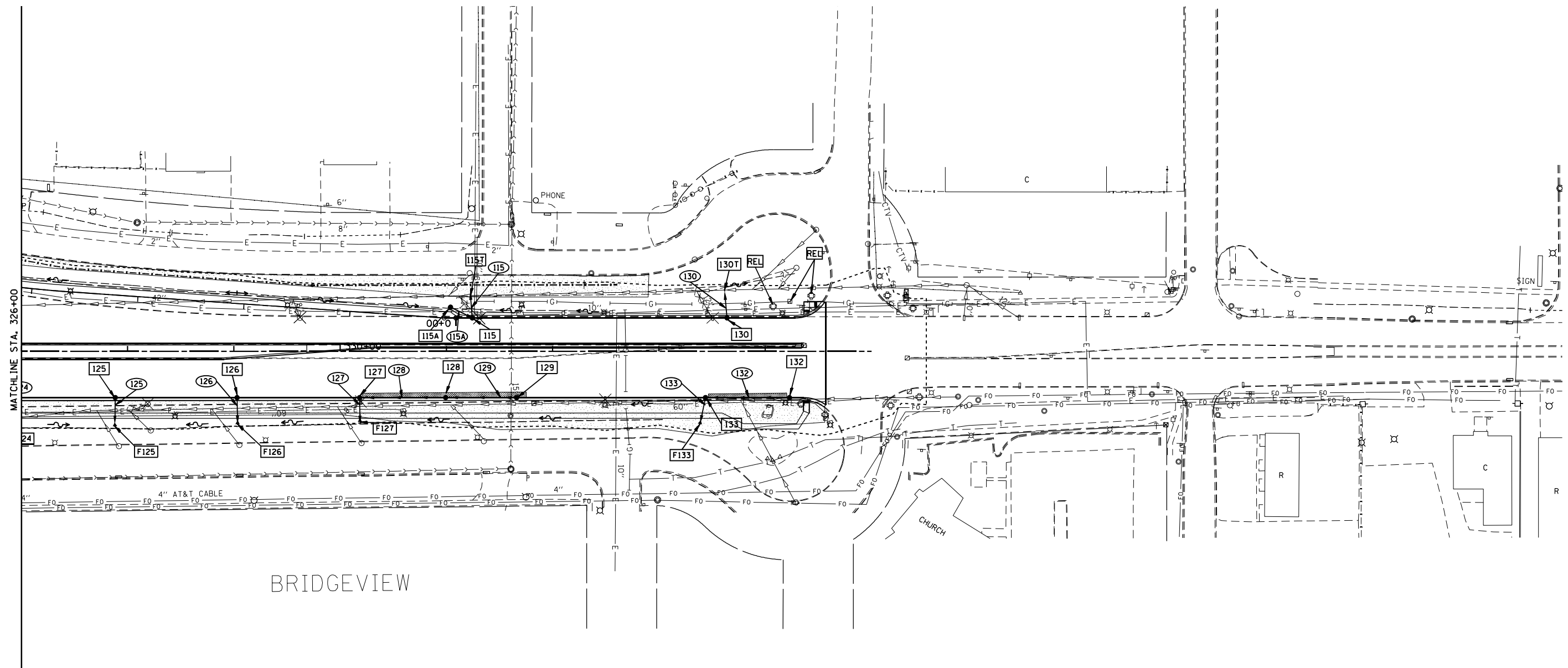
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<b>THE HOH GROUP, INC.</b> ARCHITECTS   ENGINEERS	PLOT SCALE = N/A	DRAWN - AAF	REVISED -
PN: 3730	PLOT DATE = 11/30/2023	CHECKED - BAP	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ILLINOIS ROUTE 43 (HARLEM AVENUE)  
DRAINAGE AND UTILITY PLAN**

SCALE: 1"=50'    SHEET NO. 2 OF 3 SHEETS    STA. 312+50 TO STA. 326+00

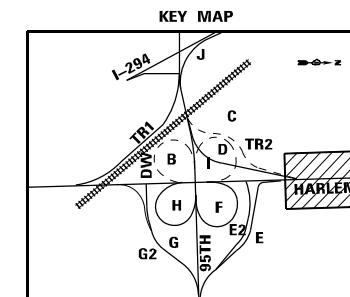
F.A.P. RTE. 29 & 348	SECTION 3128-Z-I&R&S	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 225
CONTRACT NO. 60R49				ILLINOIS FED. AID PROJECT



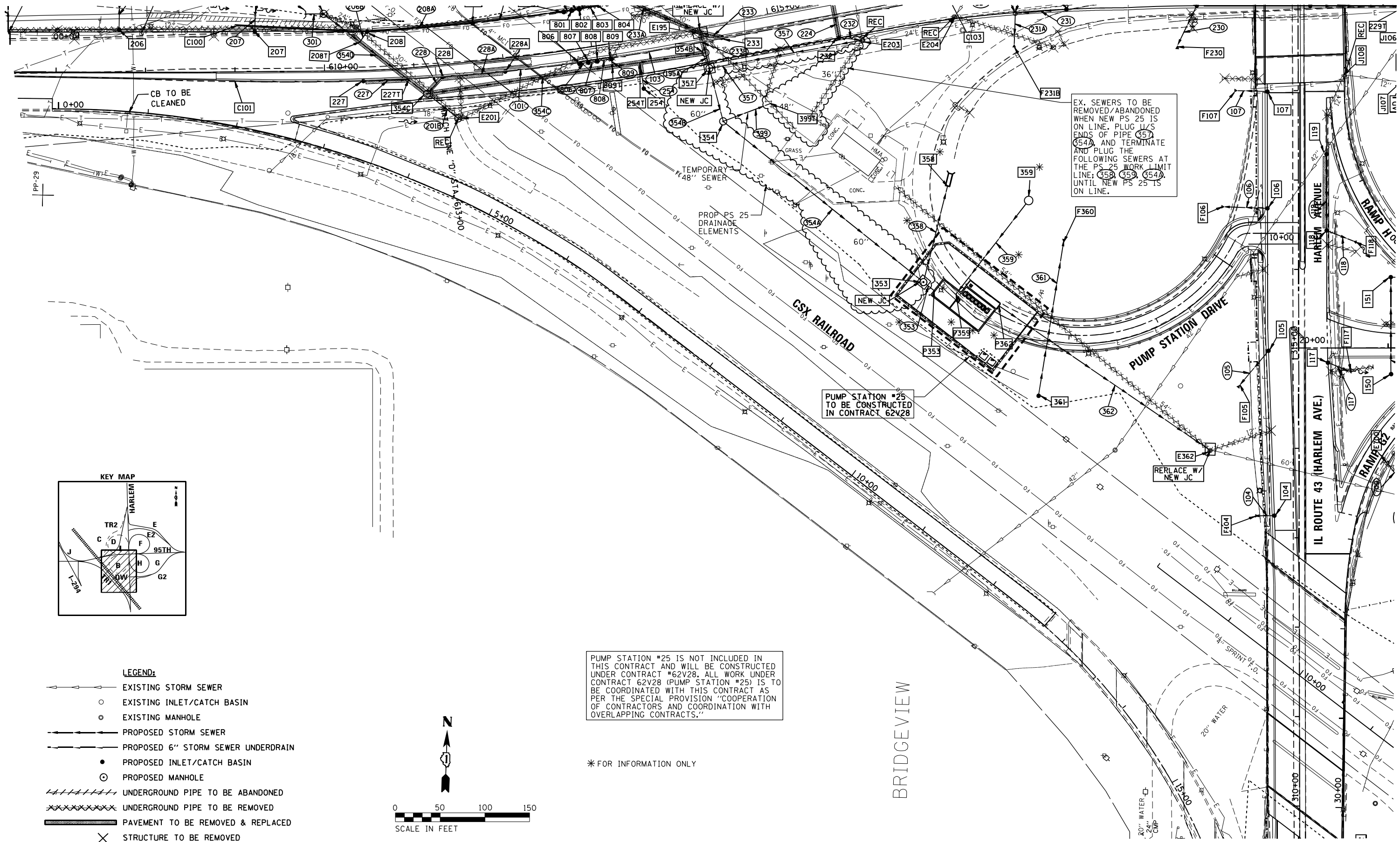
BRIDGEVIEW

**LEGEND:**

- >—>—> EXISTING STORM SEWER
- EXISTING INLET/CATCH BASIN
- EXISTING MANHOLE
- >—>—> PROPOSED STORM SEWER
- - - - - PROPOSED 6" STORM SEWER UNDERDRAIN
- PROPOSED INLET/CATCH BASIN
- ⊙ PROPOSED MANHOLE
- ////// UNDERGROUND PIPE TO BE ABANDONED
- XXXXXX UNDERGROUND PIPE TO BE REMOVED
- ▬ PAVEMENT TO BE REMOVED & REPLACED
- ✕ STRUCTURE TO BE REMOVED



FILE NAME = ...10160R49_sht_Drain_Harlem.dgn <b>THE HOH GROUP, INC.</b> <small>ARCHITECTS   ENGINEERS</small>	USER NAME = KSUMRAK PLOT SCALE = N/A PLOT DATE = 11/30/2023	DESIGNED - AAF DRAWN - AAF CHECKED - BAP DATE -	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ILLINOIS ROUTE 43 (HARLEM AVENUE) DRAINAGE AND UTILITY PLAN</b>	F.A.P. RTE. 29 & 348 SECTION 3128-Z-I&R&S COUNTY COOK TOTAL SHEETS 659 SHEET NO. 228 CONTRACT NO. 60R49	SCALE: 1"=50' SHEET NO. 3 OF 3 SHEETS STA. 326+00 TO STA. N/A ILLINOIS FED. AID PROJECT
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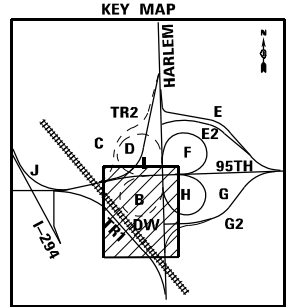


EX. SEWERS TO BE REMOVED/ABANDONED WHEN NEW PS 25 IS ON LINE. PLUG U/S ENDS OF PIPE 357, 354A AND TERMINATE AND PLUG THE FOLLOWING SEWERS AT THE PS 25 WORK LIMIT LINE: 359, 353, 354. UNTIL NEW PS 25 IS ON LINE.

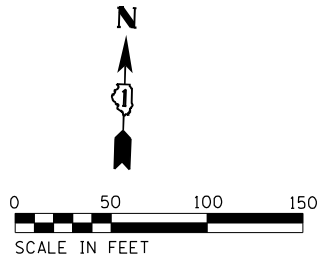
PUMP STATION #25 TO BE CONSTRUCTED IN CONTRACT 62V28

PUMP STATION #25 IS NOT INCLUDED IN THIS CONTRACT AND WILL BE CONSTRUCTED UNDER CONTRACT #62V28. ALL WORK UNDER CONTRACT 62V28 (PUMP STATION #25) IS TO BE COORDINATED WITH THIS CONTRACT AS PER THE SPECIAL PROVISION "COOPERATION OF CONTRACTORS AND COORDINATION WITH OVERLAPPING CONTRACTS."

\* FOR INFORMATION ONLY



- LEGEND:**
- >—>—> EXISTING STORM SEWER
  - EXISTING INLET/CATCH BASIN
  - EXISTING MANHOLE
  - >—>—> PROPOSED STORM SEWER
  - - - - - PROPOSED 6" STORM SEWER UNDERDRAIN
  - PROPOSED INLET/CATCH BASIN
  - ⊙ PROPOSED MANHOLE
  - ////// UNDERGROUND PIPE TO BE ABANDONED
  - xxxxxx UNDERGROUND PIPE TO BE REMOVED
  - ▬ PAVEMENT TO BE REMOVED & REPLACED
  - ✕ STRUCTURE TO BE REMOVED



BRIDGEVIEW

FILE NAME = ...10160R48_sht_Drain_Ramp A.dgn <b>THE HOH GROUP, INC.</b> <small>ARCHITECTS   ENGINEERS</small>	USER NAME = KSUMRAK	DESIGNED - AAF	REVISED -
	PLOT SCALE = N/A	DRAWN - AAF	REVISED -
	PN: 3730	CHECKED - BAP	REVISED -
	PLOT DATE = 11/30/2023	DATE -	REVISED -

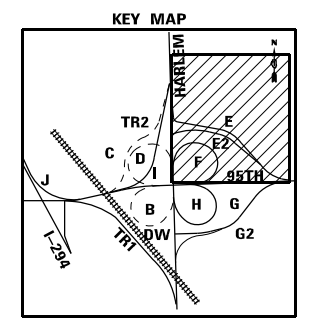
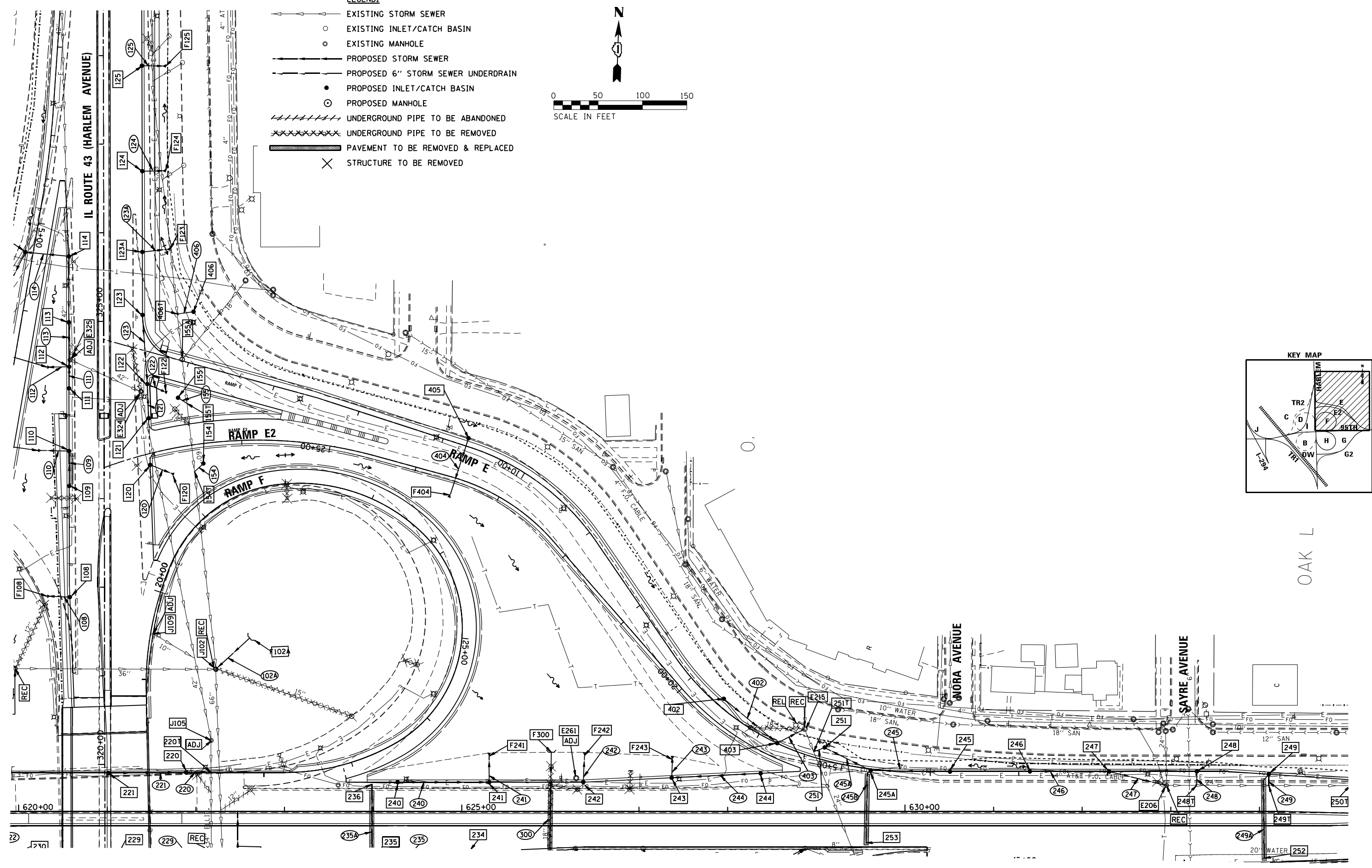
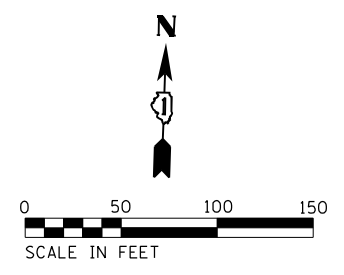
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RAMP A AND PUMP STATION DRIVE  
DRAINAGE AND UTILITY PLAN**

SCALE: 1"=50'    SHEET NO. 1 OF 1 SHEETS    STA. N/A    TO STA. N/A

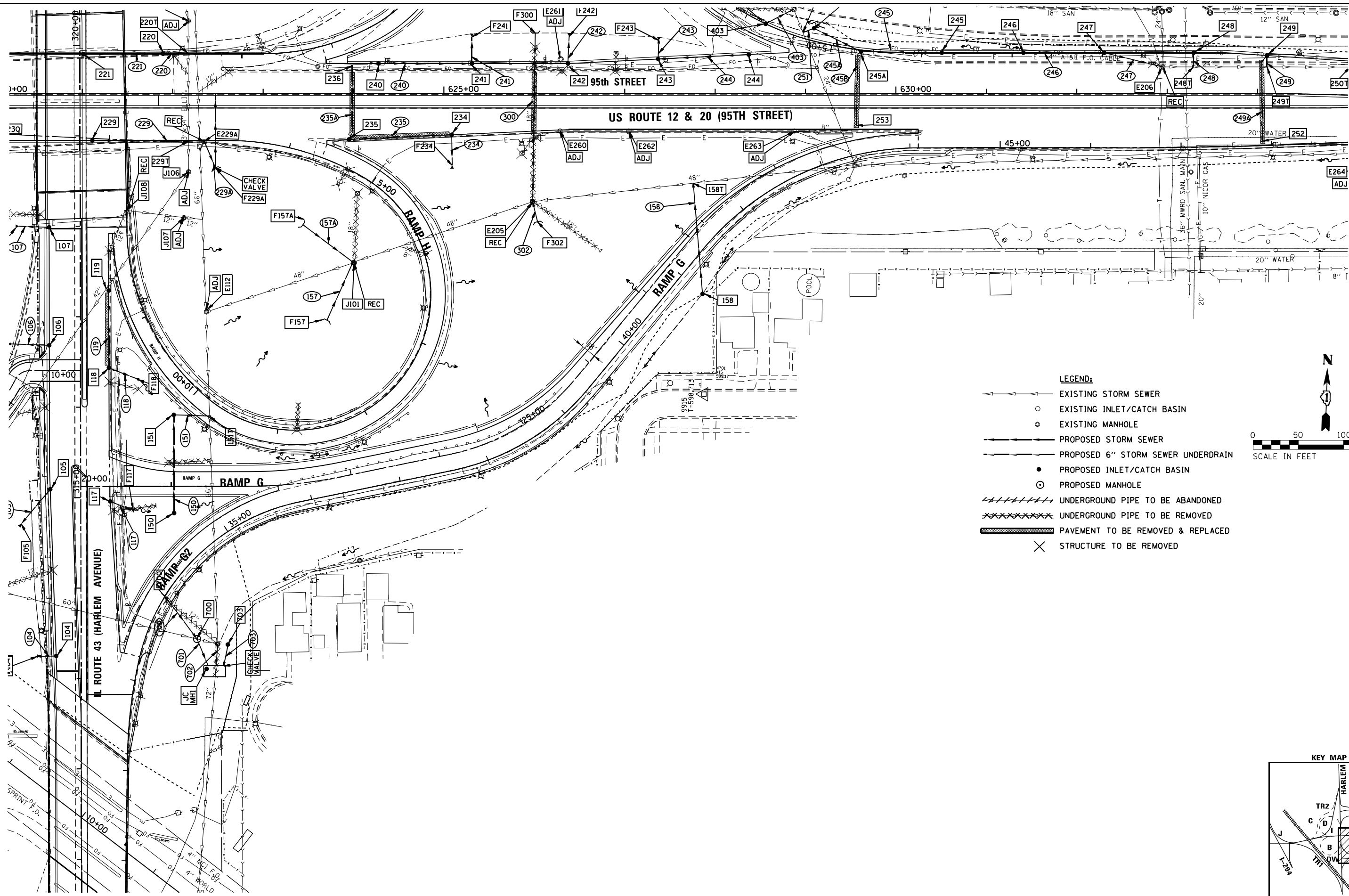
F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 227
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				

- LEGEND:**
- > EXISTING STORM SEWER
  - EXISTING INLET/CATCH BASIN
  - EXISTING MANHOLE
  - > PROPOSED STORM SEWER
  - PROPOSED 6" STORM SEWER UNDERDRAIN
  - PROPOSED INLET/CATCH BASIN
  - ⊙ PROPOSED MANHOLE
  - ////// UNDERGROUND PIPE TO BE ABANDONED
  - XXXXXX UNDERGROUND PIPE TO BE REMOVED
  - ▬ PAVEMENT TO BE REMOVED & REPLACED
  - ✕ STRUCTURE TO BE REMOVED

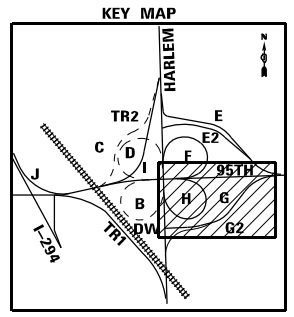
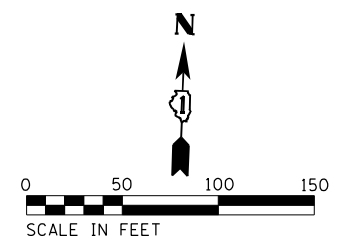


OAK L

FILE NAME = ...10160R49_sht_Drain_Ramp E-F.dgn <b>THE HOH GROUP, INC.</b> <small>ARCHITECTS   ENGINEERS</small>	USER NAME = KSUMRAK	DESIGNED - AAF	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>RAMP E, E2, AND F</b> <b>DRAINAGE AND UTILITY PLAN</b>	F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 228
	PLOT SCALE = N/A	CHECKED - BAP	REVISED -			SCALE: 1"=50'	SHEET NO. 1 OF 1 SHEETS	STA. N/A	TO STA. 312+50	CONTRACT NO. 60R49
PN: 3730	PLOT DATE = 11/30/2023	DATE -	REVISED -				ILLINOIS FED. AID PROJECT			

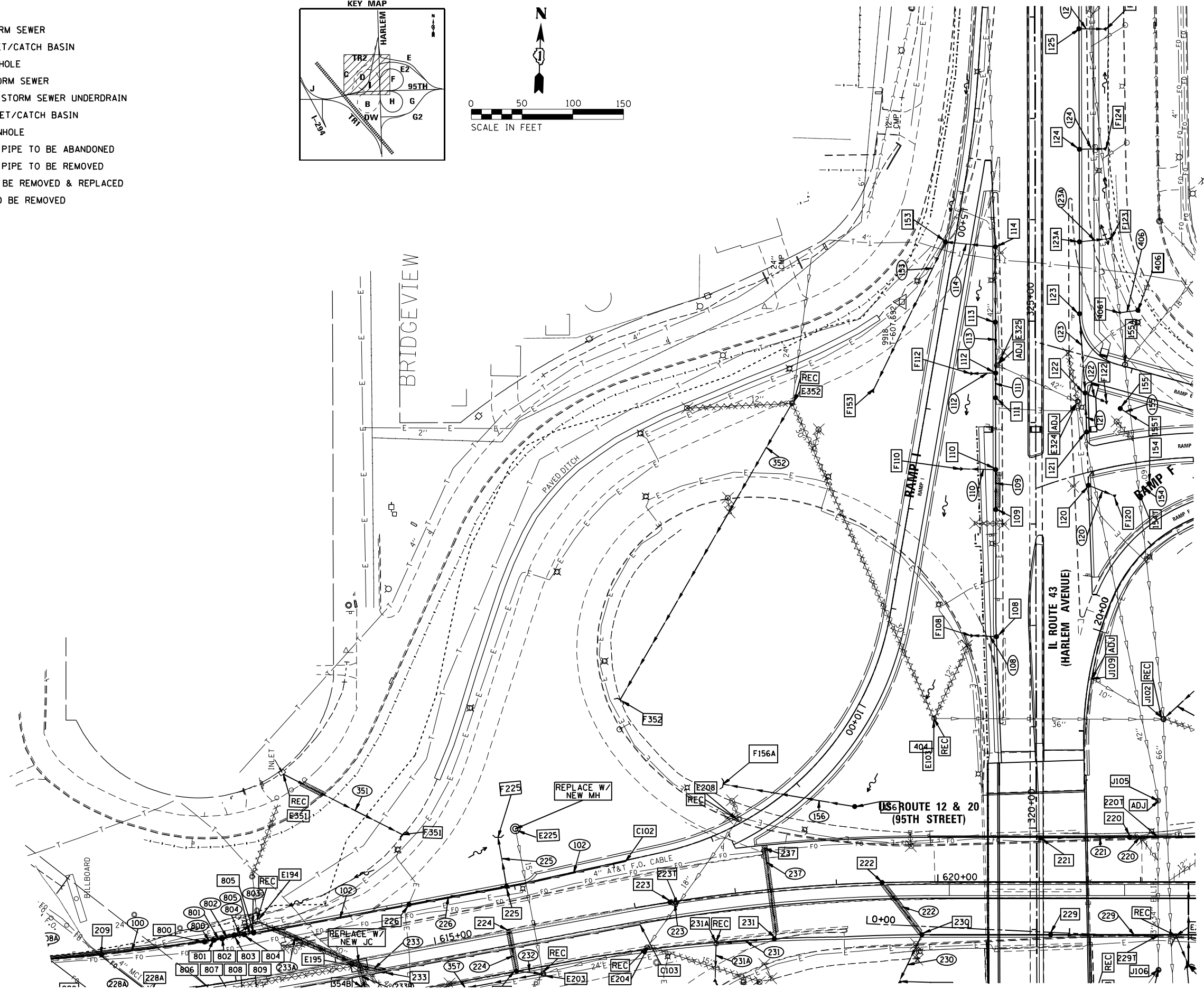
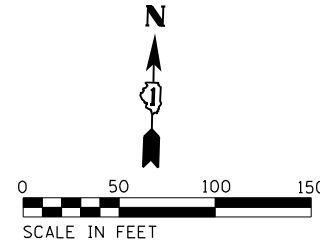
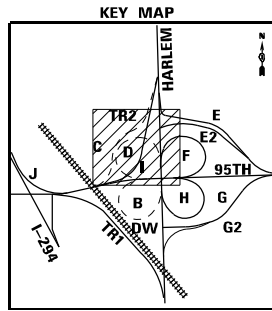


- LEGEND:**
- >—>—> EXISTING STORM SEWER
  - EXISTING INLET/CATCH BASIN
  - EXISTING MANHOLE
  - >—>—> PROPOSED STORM SEWER
  - - - - - PROPOSED 6" STORM SEWER UNDERDRAIN
  - PROPOSED INLET/CATCH BASIN
  - PROPOSED MANHOLE
  - ////// UNDERGROUND PIPE TO BE ABANDONED
  - XXXXXXXXXX UNDERGROUND PIPE TO BE REMOVED
  - ▬▬▬▬▬▬ PAVEMENT TO BE REMOVED & REPLACED
  - ✕ STRUCTURE TO BE REMOVED



FILE NAME = ...10160R48_sht_Drain_Ramp G-H.dgn <b>THE HOH GROUP, INC.</b> <small>ARCHITECTS   ENGINEERS</small>	USER NAME = KSUNIRAK	DESIGNED - AAF	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>RAMP G, G2, AND H</b> <b>DRAINAGE AND UTILITY PLAN</b>	F.A.P. RTE. = 29 & 348	SECTION = 3128-Z-I-R&RS	COUNTY = COOK	TOTAL SHEETS = 659	SHEET NO. = 229
	PLOT SCALE = N/A	CHECKED - BAP	REVISED -			SCALE: 1"=50'	SHEET NO. 1 OF 1 SHEETS	STA. N/A TO STA. N/A	CONTRACT NO. 60R49	
PN: 3730	PLOT DATE = 11/30/2023	DATE -	REVISED -	ILLINOIS FED. AID PROJECT						

- LEGEND:**
- EXISTING STORM SEWER
  - EXISTING INLET/CATCH BASIN
  - EXISTING MANHOLE
  - PROPOSED STORM SEWER
  - PROPOSED 6" STORM SEWER UNDERDRAIN
  - PROPOSED INLET/CATCH BASIN
  - PROPOSED MANHOLE
  - ////// UNDERGROUND PIPE TO BE ABANDONED
  - xxxxxxx UNDERGROUND PIPE TO BE REMOVED
  - ===== PAVEMENT TO BE REMOVED & REPLACED
  - ✕ STRUCTURE TO BE REMOVED



FILE NAME = ...10160949\_shl\_Drain\_Ramp Logn  
**THE HOH GROUP, INC.**  
 ARCHITECTS | ENGINEERS

USER NAME = KSUMRAK  
 PLOT SCALE = N/A  
 PLOT DATE = 11/30/2023

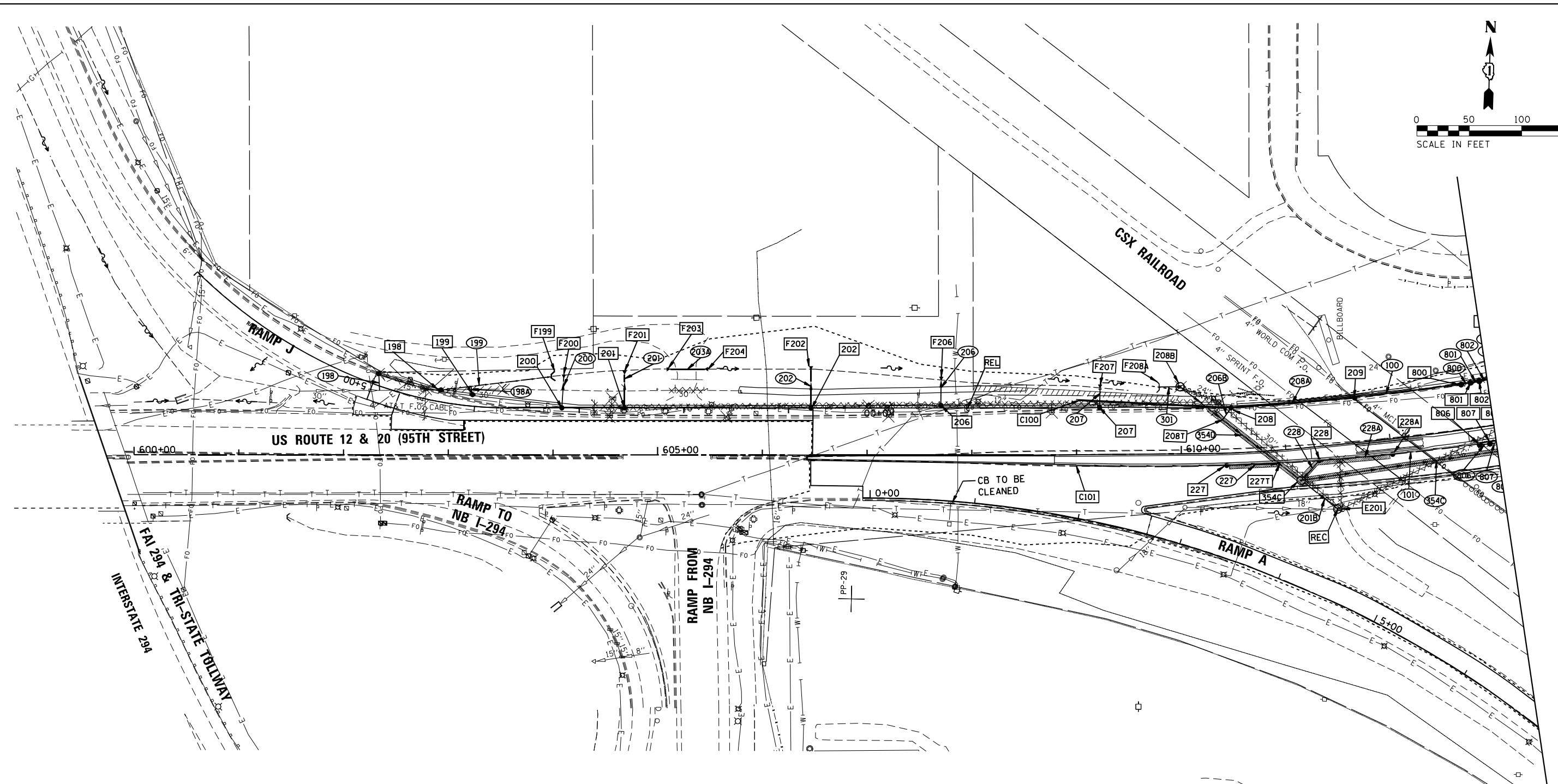
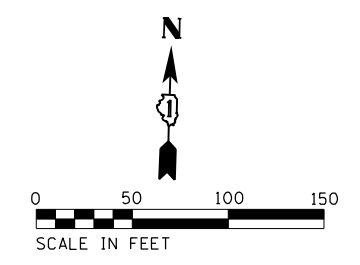
DESIGNED - AAF  
 DRAWN - AAF  
 CHECKED - BAP  
 DATE -

REVISED -  
 REVISED -  
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 REVISED -

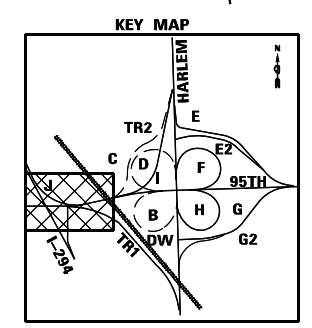
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**RAMP I  
 DRAINAGE AND UTILITY PLAN**  
 SCALE: 1"=50'  
 SHEET NO. 1 OF 1 SHEETS  
 STA. N/A TO STA. N/A

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 230
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



- LEGEND:**
- EXISTING STORM SEWER
  - EXISTING INLET/CATCH BASIN
  - EXISTING MANHOLE
  - PROPOSED STORM SEWER
  - PROPOSED 6" STORM SEWER UNDERDRAIN
  - PROPOSED INLET/CATCH BASIN
  - PROPOSED MANHOLE
  - UNDERGROUND PIPE TO BE ABANDONED
  - UNDERGROUND PIPE TO BE REMOVED
  - PAVEMENT TO BE REMOVED & REPLACED
  - STRUCTURE TO BE REMOVED

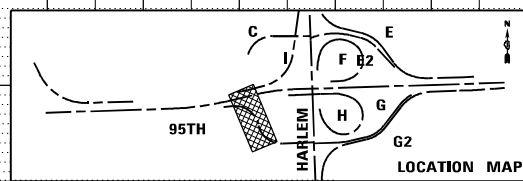
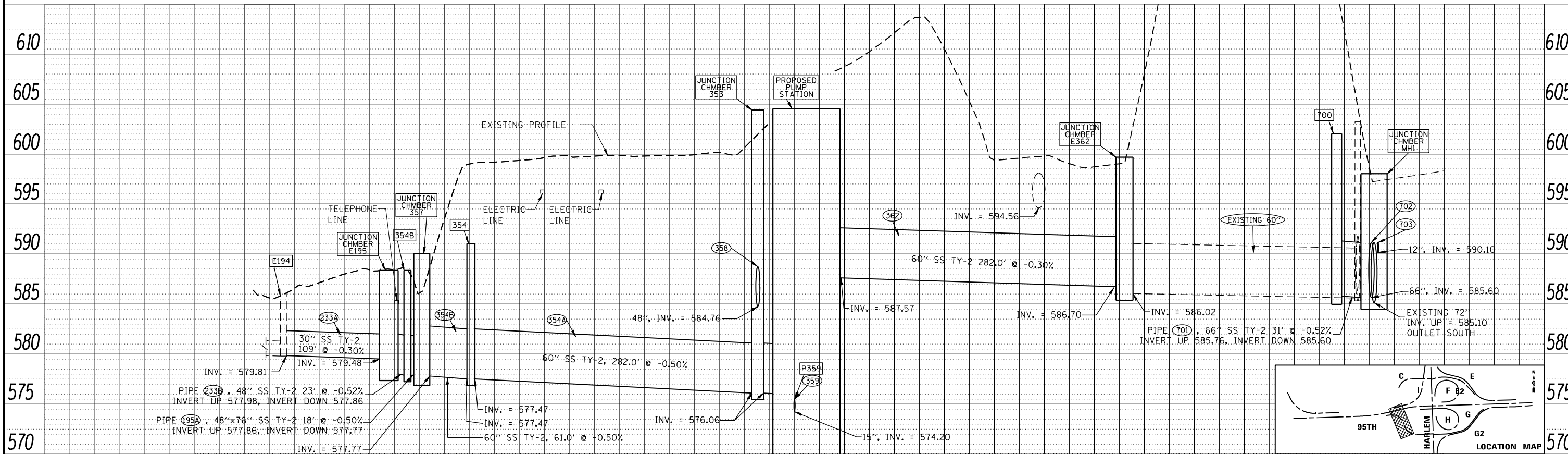
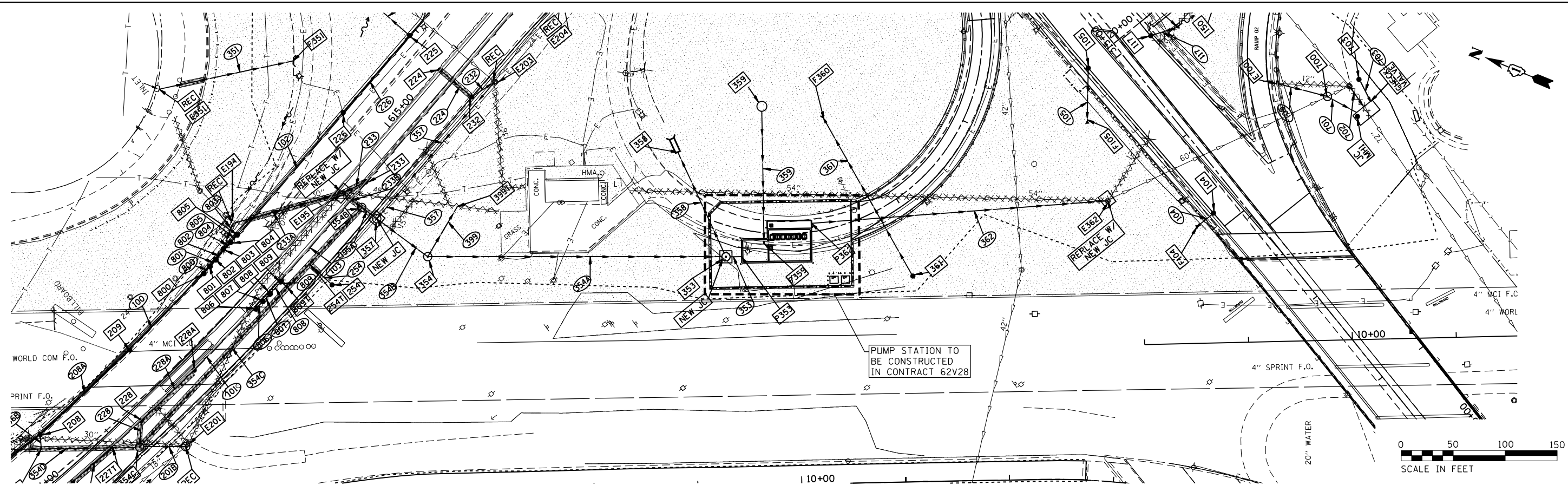


FILE NAME = ...10160949_sht_Drain_Ramp_I.dgn <b>THE HOH GROUP, INC.</b> ARCHITECTS   ENGINEERS PN: 3730	USER NAME = KSUMRAK	DESIGNED - AAF	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>RAMP J</b> <b>DRAINAGE AND UTILITIES PLAN</b>	F.A.P. RTE. = 29 & 348	SECTION = 3128-Z-I-R&RS	COUNTY = COOK	TOTAL SHEETS = 659	SHEET NO. = 231		
	PLOT SCALE = N/A	CHECKED - BAP	REVISED -			SCALE: 1"=50'	SHEET NO. 1 OF 1 SHEETS	STA. N/A	TO STA. N/A	CONTRACT NO. 60R49		
	PLOT DATE = 11/30/2023	DATE -	REVISED -			ILLINOIS FED. AID PROJECT						



PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	NO. _____		
	FILE NAME _____		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES		
	CHECKED		
	STRUCTURE		
	NOTATIONS		
	CHPND		
	NO. _____		



FILE NAME = ...ID160R49\_sht\_Drain\_PumpStation.dgn  
**THE HOH GROUP, INC.**  
 ARCHITECTS | ENGINEERS  
 PN: 3730

USER NAME = KSUMRAK  
 PLOT SCALE = 40,000' / in.  
 PLOT DATE = 11/30/2023

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

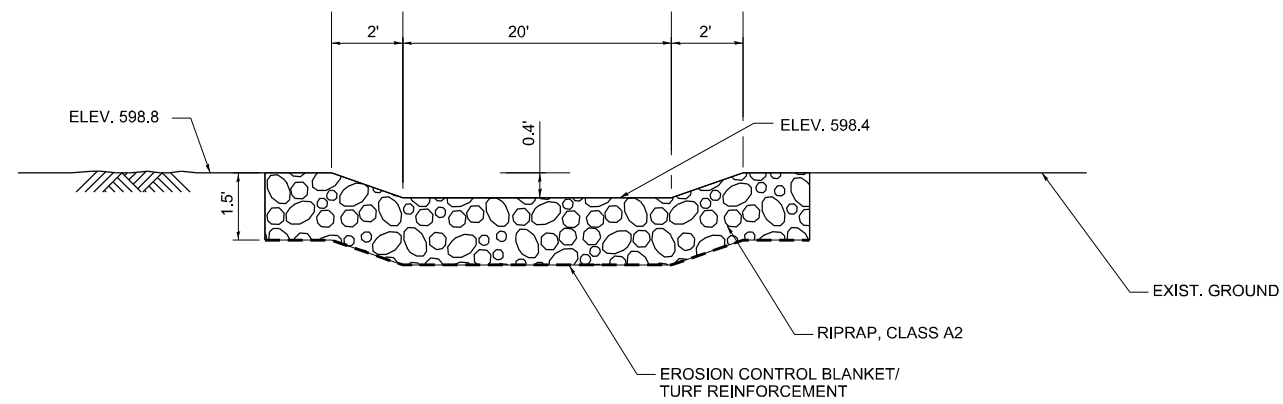
REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PUMP STATION  
 DRAINAGE AND UTILITY PLAN & PROFILE**

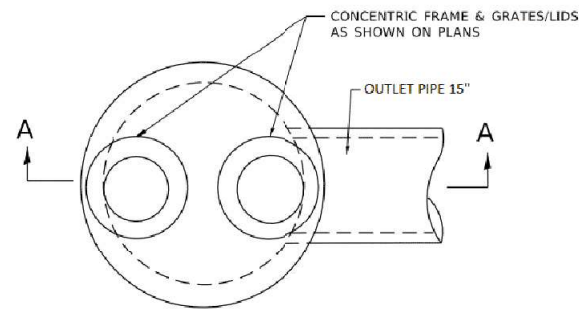
SCALE: 1" = 50' (H) / 1" = 5' (V) | SHEET NO. 1 OF 1 SHEETS | STA. N/A TO STA. N/A

F.A.P. RTE. 29 & 348 | SECTION 3128-Z-1-R&RS | COUNTY COOK | TOTAL SHEETS 659 | SHEET NO. 232 | CONTRACT NO. 60R49 | ILLINOIS FED. AID PROJECT

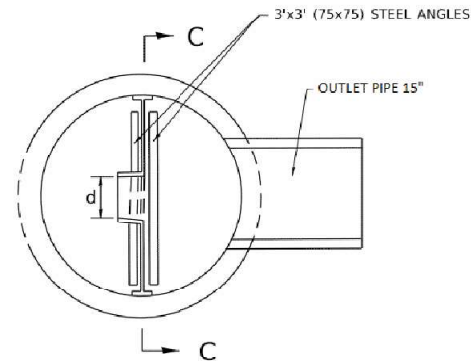


**OVERFLOW WEIR DETAIL**  
NOT TO SCALE

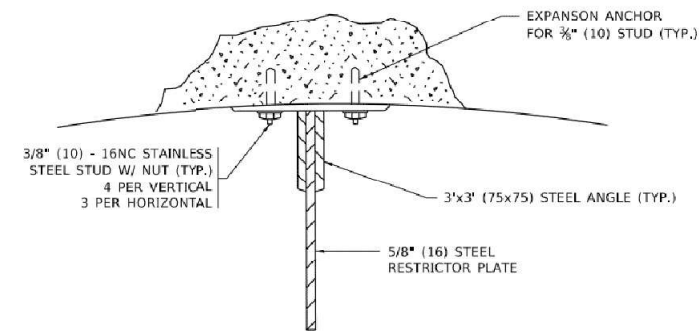
FILE NAME = ...D160R49_shl_Drain_Details.dgn <b>THE HOH GROUP, INC.</b> <small>ARCHITECTS   ENGINEERS</small>	USER NAME = KSUMRAK	DESIGNED - AAF	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>DRAINAGE DETAILS</b> <b>GENERAL</b>		F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 233
	PLOT SCALE = N/A	CHECKED - BAP	REVISED -		SCALE: NTS	SHEET NO. 1 OF 3 SHEETS	STA. TO STA.	CONTRACT NO. 60R49			
PN: 3730	PLOT DATE = 11/30/2023	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							



**PLAN**



**SECTION B-B**



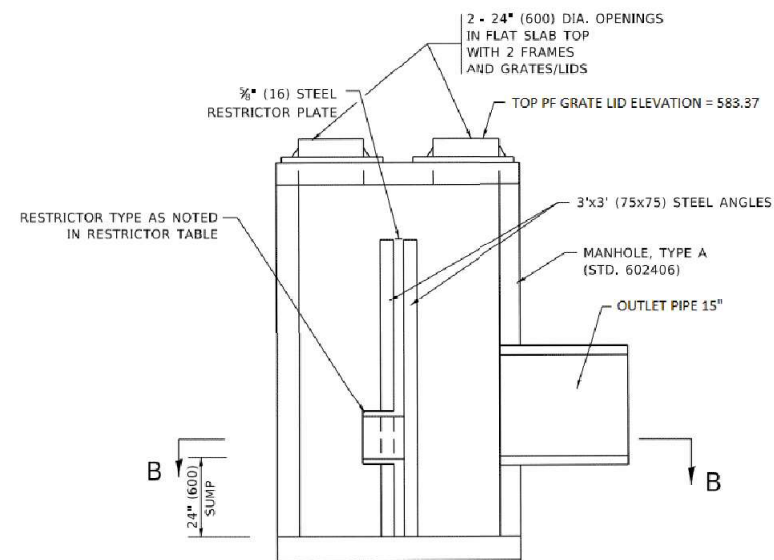
**ANGLE FASTENER DETAIL**

**NOTES:**

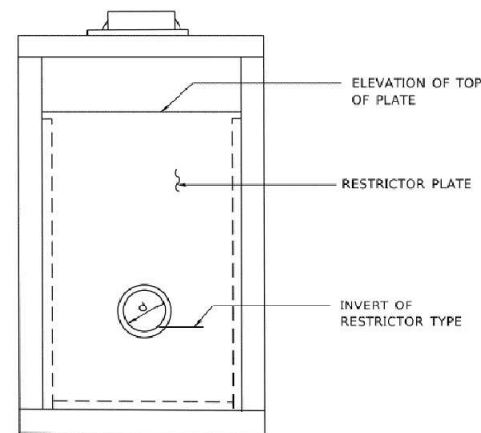
1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.

**BASIS OF PAYMENT:**

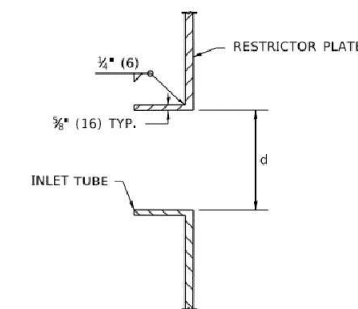
1. TO BE PAID FOR AS \*MANHOLES, TYPE A, 6 FT. (1.8 m)-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE\* EACH
2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.



**SECTION A-A**

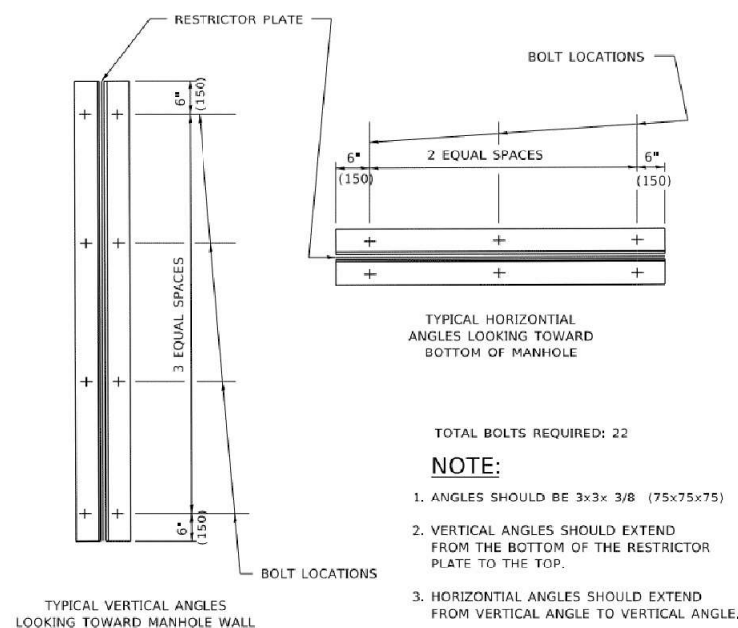


**SECTION C-C**



**INLET TUBE DETAIL**

STRUCTURE NUMBER	MANHOLE DIAMETER	FRAME AND GRATE	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER in. (mm) (d)	INVERT OF RESTRICTOR TYPE	ELEVATION OF TOP OF PLATE OVERFLOW
359	6 FT	TYPE 8	6	4.0	574.50	580.00
E225	6 FT	TYPE 8	6	5.5	582.10	600.00



**STEEL ANGLE BOLTING DETAILS**

RESTRICTOR TYPE					
1	2	3	4	5	6
RE-ENTRANT TUBE	SHARP EDGED	SQUARE EDGED	RE-ENTRANT TUBE	SQUARE EDGED	ROUNDED
LENGTH: 1/2 TO 1 DIA. C=.52	C=.61	STREAM CLEARS SIDES C=.61	LENGTH: 2-1/2 DIA. C=.73	LENGTH: 2-1/2 DIA. C=.82	C=.98

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

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

FILE NAME = ...10160949_sht_Drain_Details.dgn	USER NAME = KSUNRAK	DESIGNED - AAF	REVISED -
<b>THE HOH GROUP, INC.</b> ARCHITECTS   ENGINEERS	PLOT SCALE = N/A	DRAWN - AAF	REVISED -
PN: 3730	PLOT DATE = 11/30/2023	CHECKED - BAP	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS  
MANHOLE WITH RESTRICTOR PLATE

SCALE: SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 233A
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				

## Series TF-1 Check Valve (or equivalent Specifications)

### PART 1: GENERAL

#### 1.01 SUBMITTALS

- A. Submit product literature that includes information on the performance and operation of the valve, materials of construction, dimensions and weights, elastomer characteristics, flow data, headloss data, and pressure ratings.
- B. Upon request, provide shop drawings that clearly identify the valve dimensions.
- C. Upon request, manufacturer shall provide installation and reference lists for existing valves of similar size and type to the project scope.

#### 1.02 QUALITY ASSURANCE

- A. Supplier shall have at least fifteen (15) years experience in the manufacture of "duckbill" style elastomeric valves.
- B. Manufacturer shall have conducted independent hydraulic testing to determine headloss and jet velocity characteristics on a minimum of eight sizes of duckbill valves ranging from 2" through 48". The testing must include multiple constructions (stiffness) within each size and must have been conducted for free discharge (discharge to atmosphere) and submerged conditions.
- C. Manufacturer shall have conducted an independent hydraulic test where multiple valves (at least four) of the same size and construction (stiffness) were tested to validate the submitted headloss characteristics and to prove the repeatability of the manufacturing process to produce the same hydraulic characteristics.
- D. Manufacturer to have conducted Finite Element Analysis (FEA) on various duckbill valves to determine deflection, stress and strain characteristics under various load conditions. Modeling must have been done for flowing conditions (positive differential pressure) and reverse differential pressure.
- E. Valves 24" and larger must incorporate a metallic support completely encapsulated in the wall thickness at the top portion of the valve to assist in supporting the weight of the valve.
- F. The bill slit of the duckbill valve must be at least 1.57 times the nominal pipe diameter.

### PART 2: PRODUCTS

#### 2.01 "DUCKBILL" ELASTOMERIC CHECK VALVE

- A. Check Valves are to be all rubber of the flow operated check type with a slip-on connection. The Check Valve is designed to slip over the specified pipe outside diameter and attached by means of vendor furnished stainless steel clamps. The port area shall contour down to a duckbill, which shall allow passage of flow in one direction while preventing reverse flow. The valve shall be one piece rubber construction with nylon reinforcement. The duckbill shall be offset so that the bottom line of the valve is flat, keeping the invert of the pipe parallel with the invert of the valve. The top of the valve shall rise to form the duckbill shape. The bill portion shall be thinner and more flexible than the valve body and formed into a curve of 180°.
- B. Manufacturer must have available flow test data from an accredited hydraulics laboratory to confirm pressure drop data. Company name, plant location, valve size and serial number shall be bonded to the check valve.

#### 2.02 FUNCTION

- A. When line pressure inside the valve exceeds the backpressure outside the valve, the line pressure forces the bill of the valve open, allowing flow to pass. When backpressure exceeds the line pressure, the bill of the valve is forced closed. The flat bottom allows the valve to be installed where minimal bottom clearance exists.

#### 2.03 MANUFACTURER

- A. All valves shall be of the Series TF-1 as manufactured by Tideflex® Technologies, Carnegie, PA 15106 (or equivalent). All valves shall be manufactured in the U.S.A.

### PART 3: EXECUTION

#### 3.01 INSTALLATION

- A. Valve shall be installed in accordance with manufacturer's written Installation and Operation Manual and approved submittals.

#### 3.02 MANUFACTURER'S CUSTOMER SERVICE

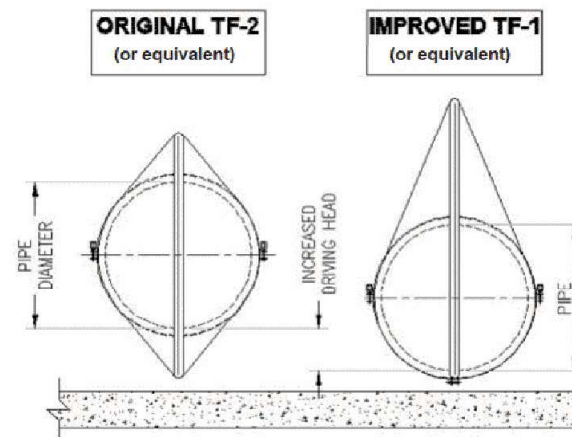
- A. Manufacturer's authorized representative shall be available for customer service during installation and start-up, and to train personnel in the operation, maintenance and troubleshooting of the valve.
- B. Manufacturer shall also make customer service available directly from the factory in addition to authorized representatives for assistance during installation and start-up, and to train personnel in the operation, maintenance and troubleshooting of the valve.

## Increases Flow Capacity

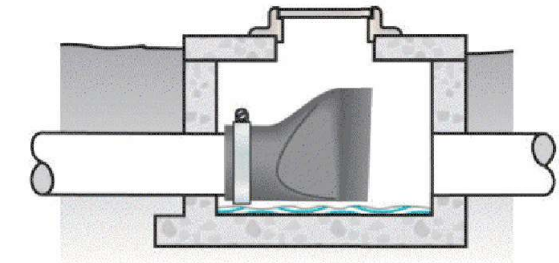
The eccentric TF-1 Check Valve (or equivalent) was developed with a flat bottom to minimize the amount of bottom clearance required below the pipe invert. This allows for the valve and pipeline to be lowered, which maximizes driving head. This results in faster drainage, which is especially important in low-lying areas that have limited head available.

In structures, the Check Valve does not require as much clearance below the pipe invert which minimizes the amount of debris, sand and sediment that can get trapped.

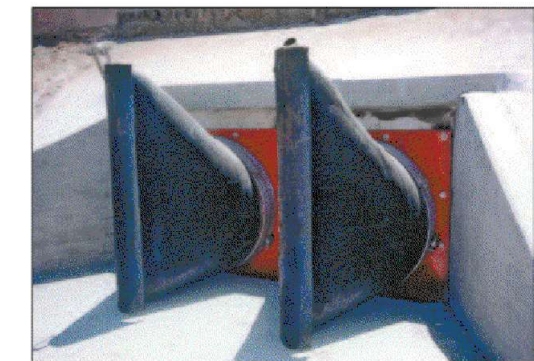
VALVE SIZE	TF-2 (OR EQUIVALENT) HEIGHT	TF-1 (OR EQUIVALENT) HEIGHT	TF-1 (OR EQUIVALENT) INCREASED DRIVING HEAD
12"	20"	23"	4"
24"	39"	43"	7.5"
36"	63"	70"	13.5"
48"	80"	95"	16"
90"	124"	145"	17"



Eccentric TF-1 Check Valves (or equivalent) allow for a lower pipe invert elevation.



The Eccentric TF-1 Check Valve (or equivalent) produces a very small sump because of its low bottom clearance. The amount of sand and sediment that can get trapped in the vault is minimized because normal flow velocities will scour the sump of a TF-1.



The Eccentric TF-1 Check Valves (or equivalent) are ideal for low-lying areas.



The increased driving head of a TF-1 Check Valve (or equivalent) improves flow capacity.

FILE NAME = ...10160949_sht_Drain_Details.dgn	USER NAME = KSUMRAK	DESIGNED - AAF	REVISED -
THE HOH GROUP, INC.		DRAWN - AAF	REVISED -
ARCHITECTS   ENGINEERS	PLOT SCALE = N/A	CHECKED - BAP	REVISED -
PN: 3730	PLOT DATE = 11/30/2023	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

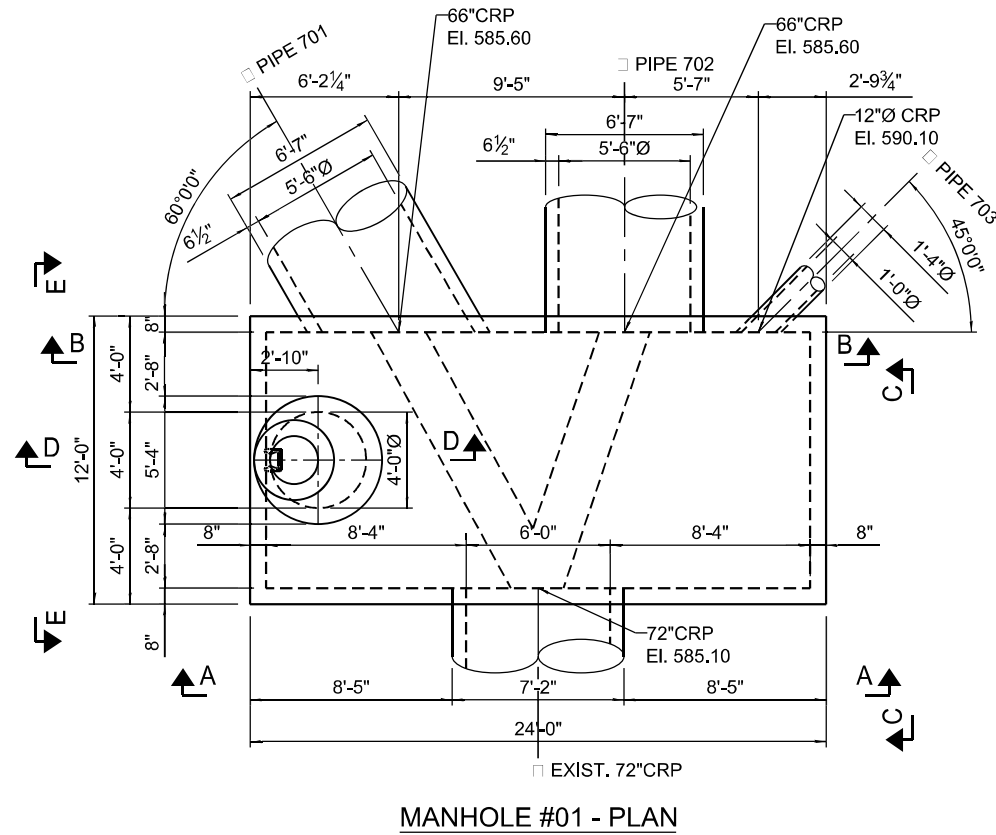
DRAINAGE DETAILS  
CHECK VALVES

SCALE: SHEET NO. 3 OF 3 SHEETS STA. TO STA.

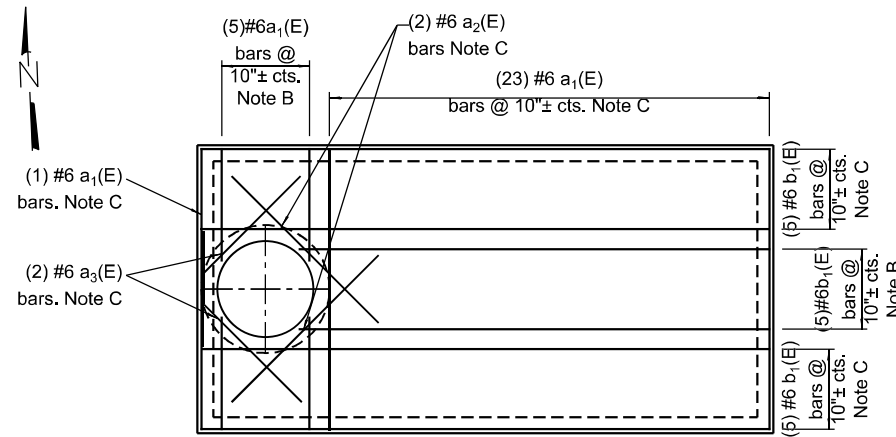
F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 233B
			CONTRACT NO. 60R49	
ILLINOIS FED. AID PROJECT				

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a <sub>1</sub> (E)	34	#6	11'-8"	▬
a <sub>2</sub> (E)	2	#6	8'-8"	▬
a <sub>3</sub> (E)	2	#6	8'-8"	▬
b <sub>1</sub> (E)	20	#6	23'-8"	▬
w <sub>1</sub> (E)	48	#8	23'-8"	▬
t <sub>1</sub> (E)	29	#8	11'-8"	▬
d <sub>1</sub> (E)	48	#5	3'-4"	┘
n <sub>1</sub> (E)	48	#5	3'-5"	┘
h <sub>1</sub> (E)	10	#5	23'-6"	▬
h <sub>2</sub> (E)	10	#5	11'-6"	▬
h <sub>3</sub> (E)	20	#5	4'-4"	▬
h <sub>4</sub> (E)	6	#5	17'-3"	▬
h <sub>5</sub> (E)	1	#5	16'-3"	▬
h <sub>6</sub> (E)	1	#5	14'-8"	▬
h <sub>7</sub> (E)	1	#5	13'-2"	▬
h <sub>8</sub> (E)	1	#5	11'-8"	▬
v <sub>1</sub> (E)	38	#5	6'-10"	▬
v <sub>2</sub> (E)	12	#5	9'-10"	▬
v <sub>3</sub> (E)	3	#5	7'-0"	▬
v <sub>4</sub> (E)	3	#5	6'-6"	▬
v <sub>5</sub> (E)	9	#5	7'-3"	▬
v <sub>6</sub> (E)	9	#5	3'-10"	▬
Structure Excavation		Cu. Yd.	550.0	
Concrete Structures		Cu. Yd.	32.0	
Reinforcement Bars, Epoxy Coated		Pound	1,510	

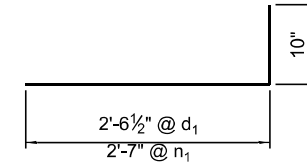


**MANHOLE #01 - PLAN**

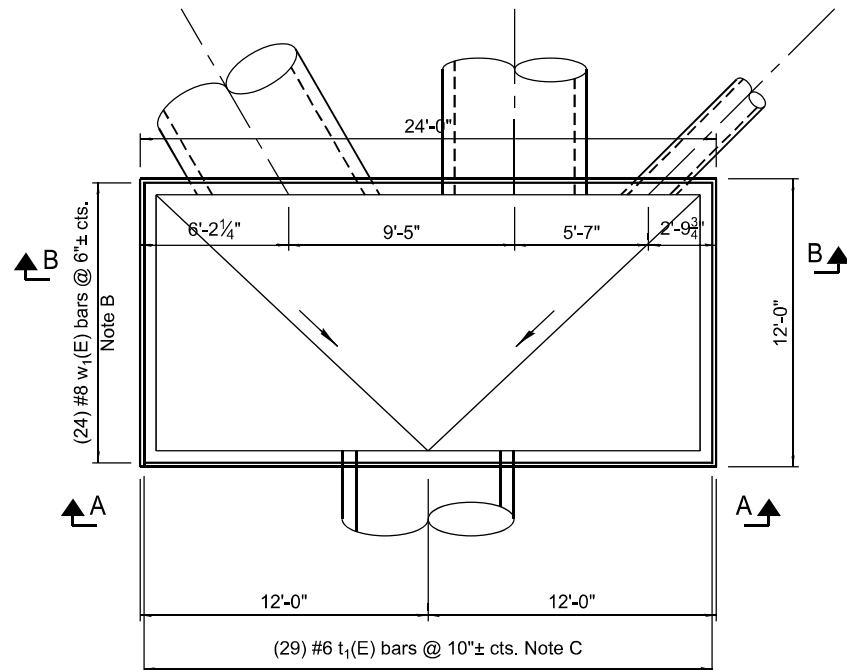


**MANHOLE #01 - TOP SLAB REINFORCING PLAN**

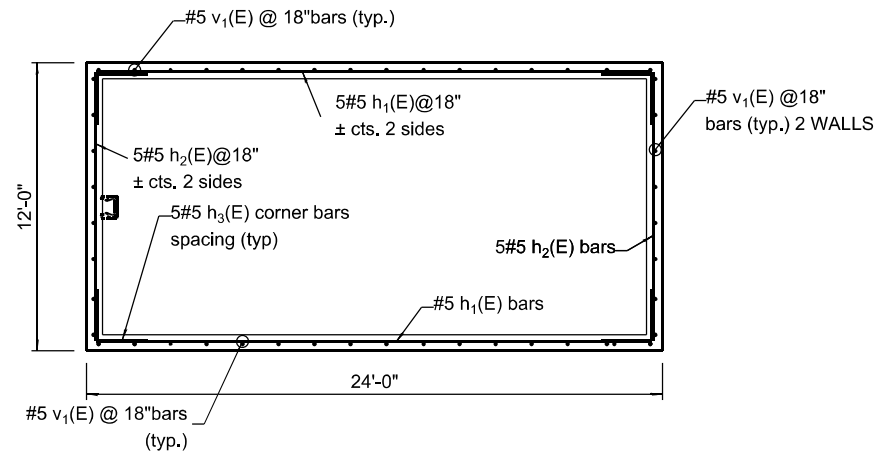
Note A:  
Cut reinforcing in field around openings or pipe penetrations.  
Note B:  
Reinforcing Bars @ Top & Bottom.  
Note C:  
Reinforcing Bars @ Bottom only.



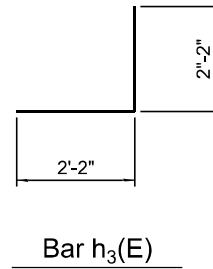
**Bar d<sub>1</sub>(E)**  
**Bar n<sub>1</sub>(E)**



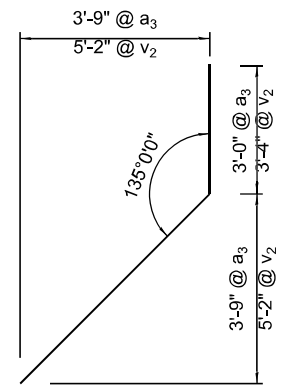
**MANHOLE #01  
BOTTOM SLAB REINFORCEMENT PLAN**



**MANHOLE #01  
WALL REINFORCEMENT PLAN**



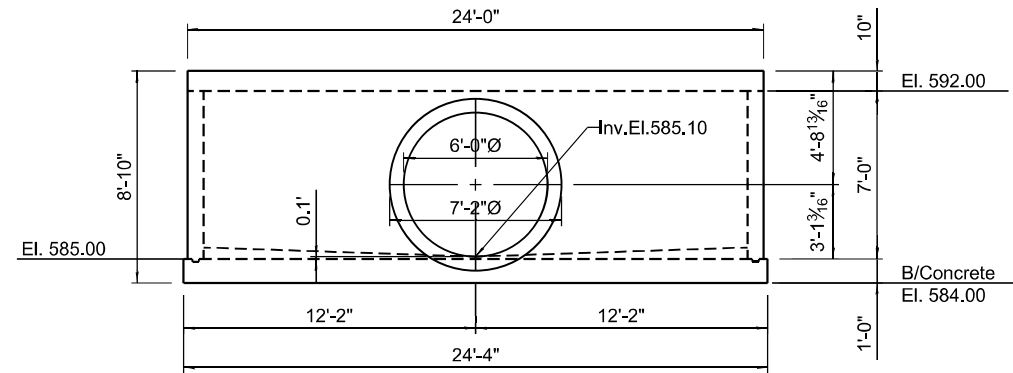
**Bar h<sub>3</sub>(E)**



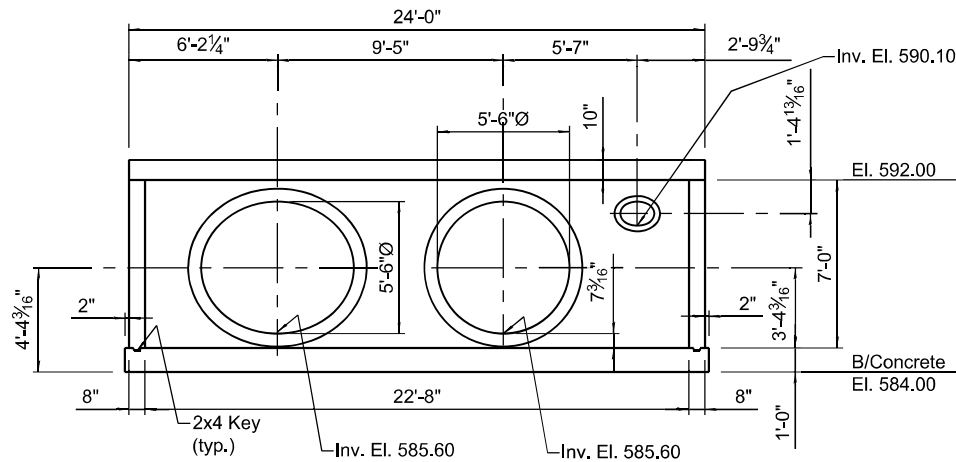
**Bar a<sub>3</sub>(E)**  
**Bar v<sub>2</sub>(E)**

USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	3128-Z-R&RS	COOK	659	234
CONTRACT NO. 60R49				

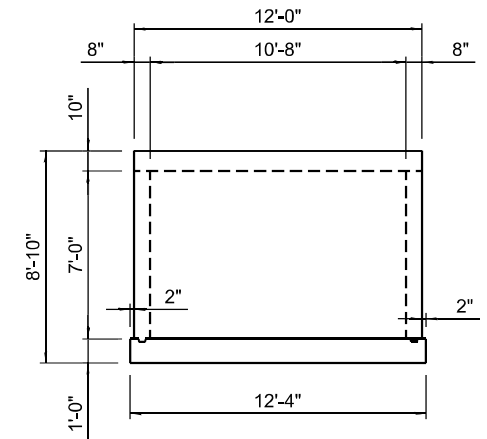


**ELEVATION A-A SOUTH WALL**



**SECTION B-B NORTH WALL**

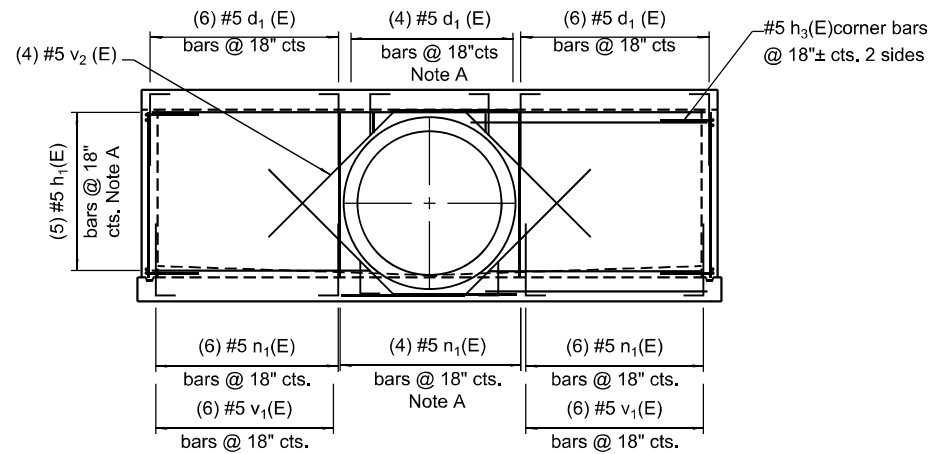
Scale: 1" = 1'-0"



**ELEVATION C-C EAST WALL  
ELEVATION E-E WEST WALL**

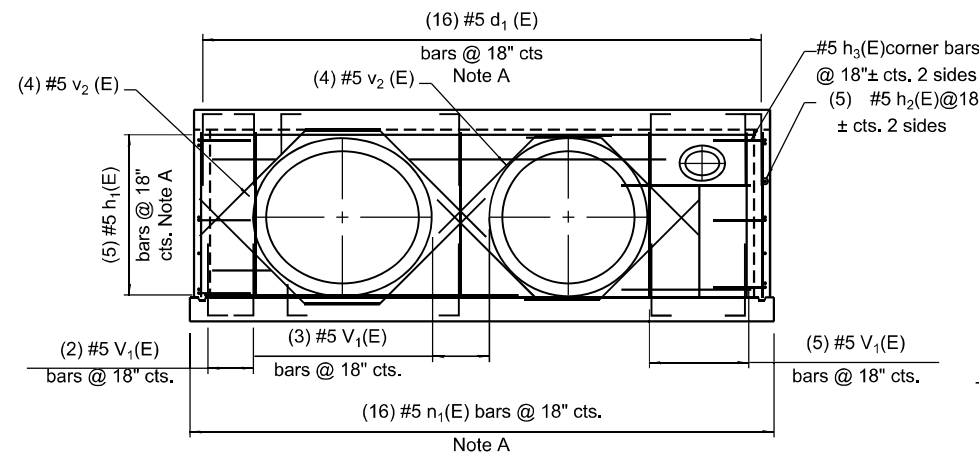
Scale: 1" = 1'-0"

- Note A:**  
Cut reinforcing in field around openings or pipe penetrations.  
**Note B:**  
Reinforcing Bars @ Top & Bottom.  
**Note C:**  
Reinforcing Bars @ Bottom only.



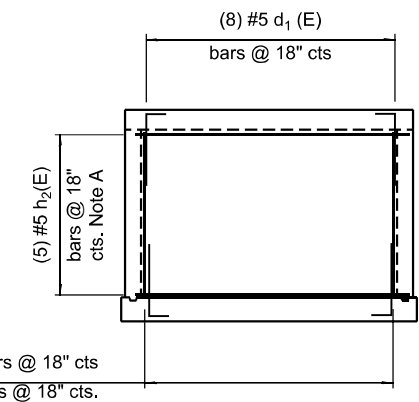
**ELEVATION A-A  
SOUTH WALL REINFORCING ELEVATION**

Scale: 1" = 1'-0"



**SECTION B-B NORTH WALL  
REINFORCING ELEVATION**

Scale: 1" = 1'-0"

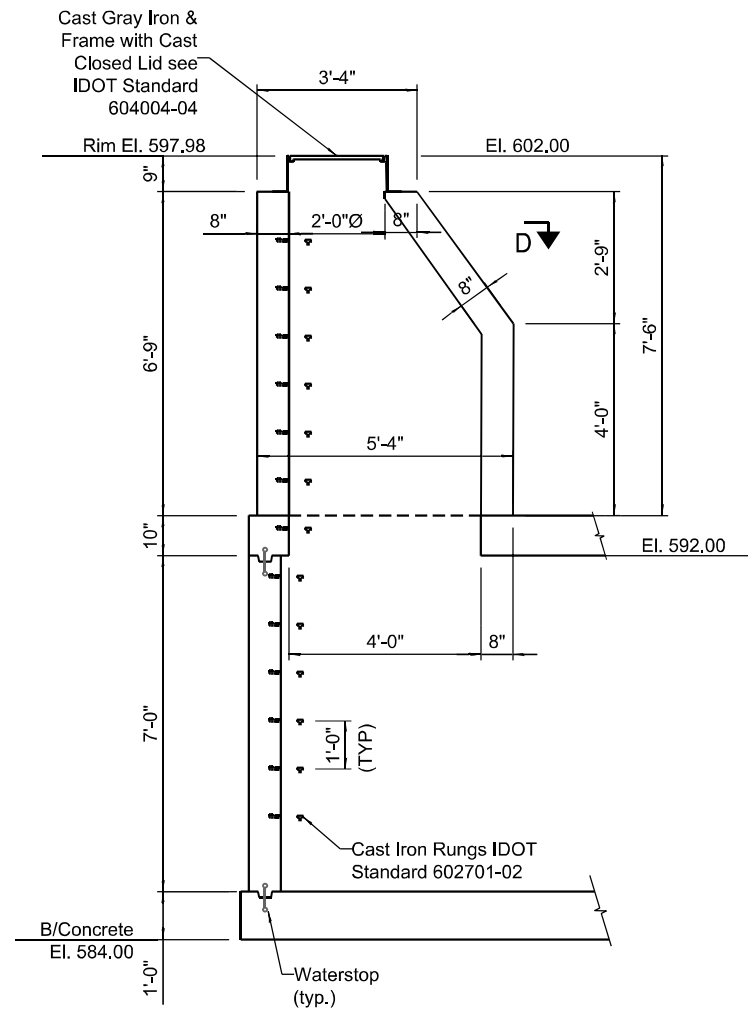


**SECTION C-C EAST WALL  
SECTION E-E WEST WALL  
REINFORCING ELEVATION**

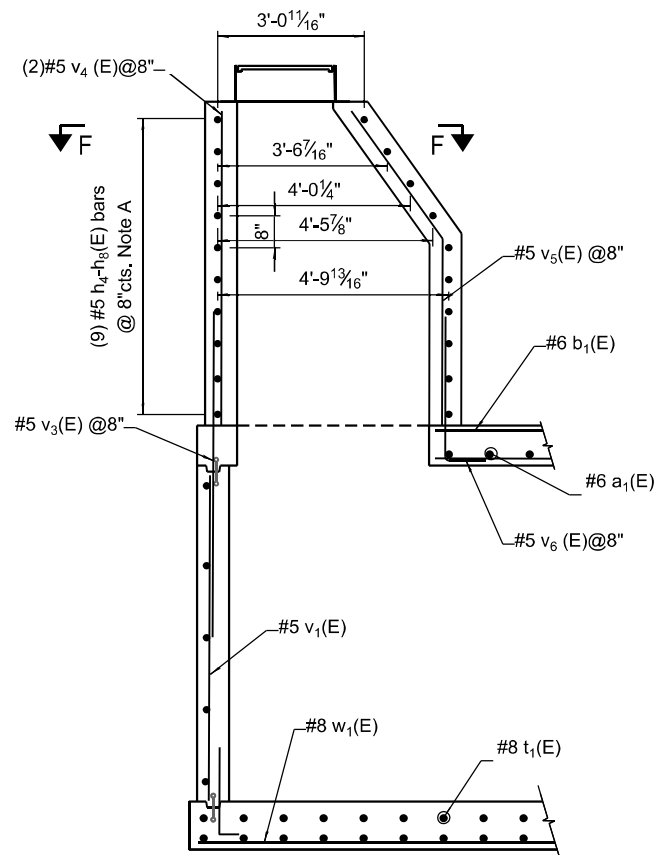
Scale: 1" = 1'-0"

USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

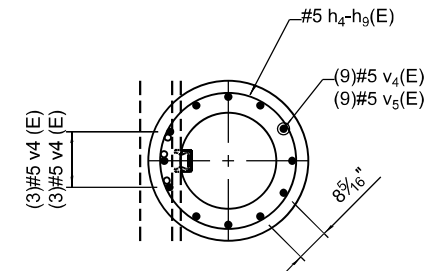
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	3128-Z-R&RS	COOK	659	235
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



**SECTION D-D**  
Scale: 1/2" = 1'-0"

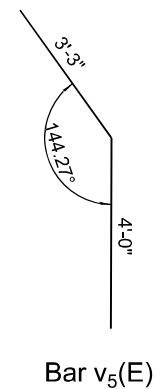


**SECTION D-D REINFORCING SECTION**  
Scale: 1/2" = 1'-0"

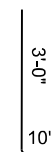


**SECTION F-F  
REINFORCING SECTION**

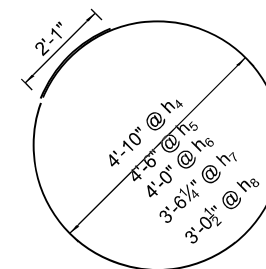
Scale: 1/2" = 1'-0"



Bar v<sub>5</sub>(E)



Bar v<sub>6</sub>(E)



Bar h<sub>4</sub>(E)

Bar h<sub>5</sub>(E)

Bar h<sub>6</sub>(E)

Bar h<sub>7</sub>(E)

Bar h<sub>8</sub>(E)

USER NAME = _____	DESIGNED - _____	REVISED - _____
CHECKED - _____	CHECKED - _____	REVISED - _____
PLOT SCALE = 1/4" = 1'-0" U.N.	DRAWN - JPM	REVISED - _____
PLOT DATE = _____	CHECKED - _____	REVISED - _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	3128-Z-R&RS	COOK	659	236
CONTRACT NO. 60R49				

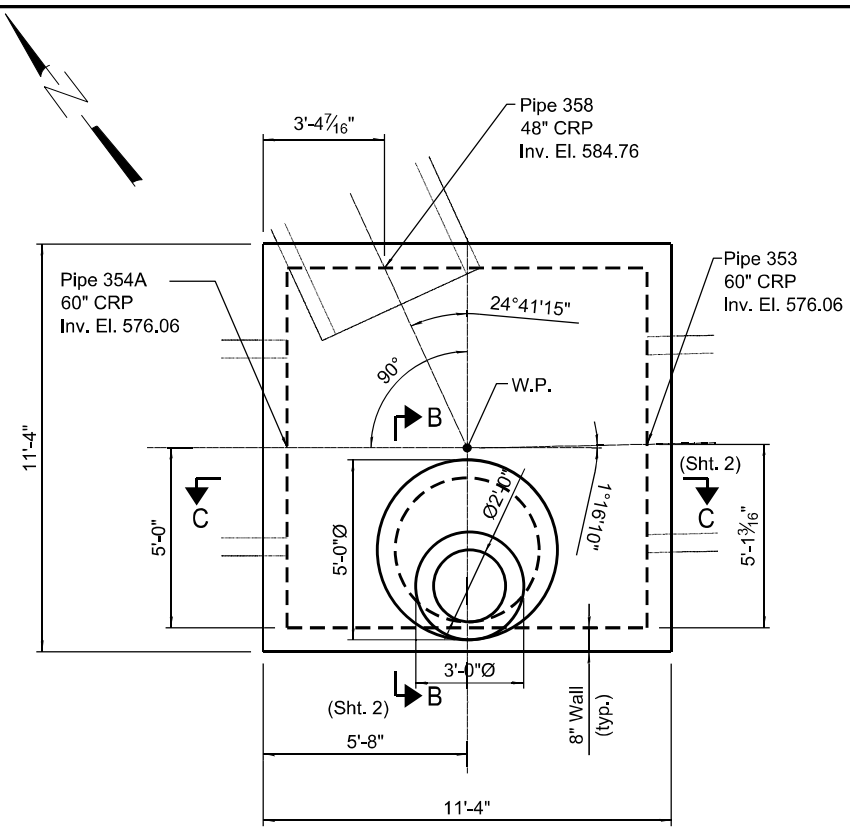
# SHEET NOT USED

FILE NAME = ...ID160R49_sht_Drain_JunctionCham	DESIGNED - AAF	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PUMP STATION DRIVE JUNCTION CHAMBER # 98 - SHEET 1 OF 2</b>	F.A.P. RTE. 29 & 348	SECTION 3128-Z4-R&R5	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 237		
<b>THE HOH GROUP, INC.</b> ARCHITECTS   ENGINEERS	DRAWN - AAF	REVISED -			SCALE: NTS	SHEET NO. 1 OF 2 SHEETS	STA. N/A	TO STA. N/A	CONTRACT NO. 60R49		
DESIGNER NAME = KSUMRAK	CHECKED - BAP	REVISED -			ILLINOIS FED. AID PROJECT						
PN: 3730	DATE -	REVISED -									
PLOT SCALE = N/A	PLOT DATE = 11/30/2023										

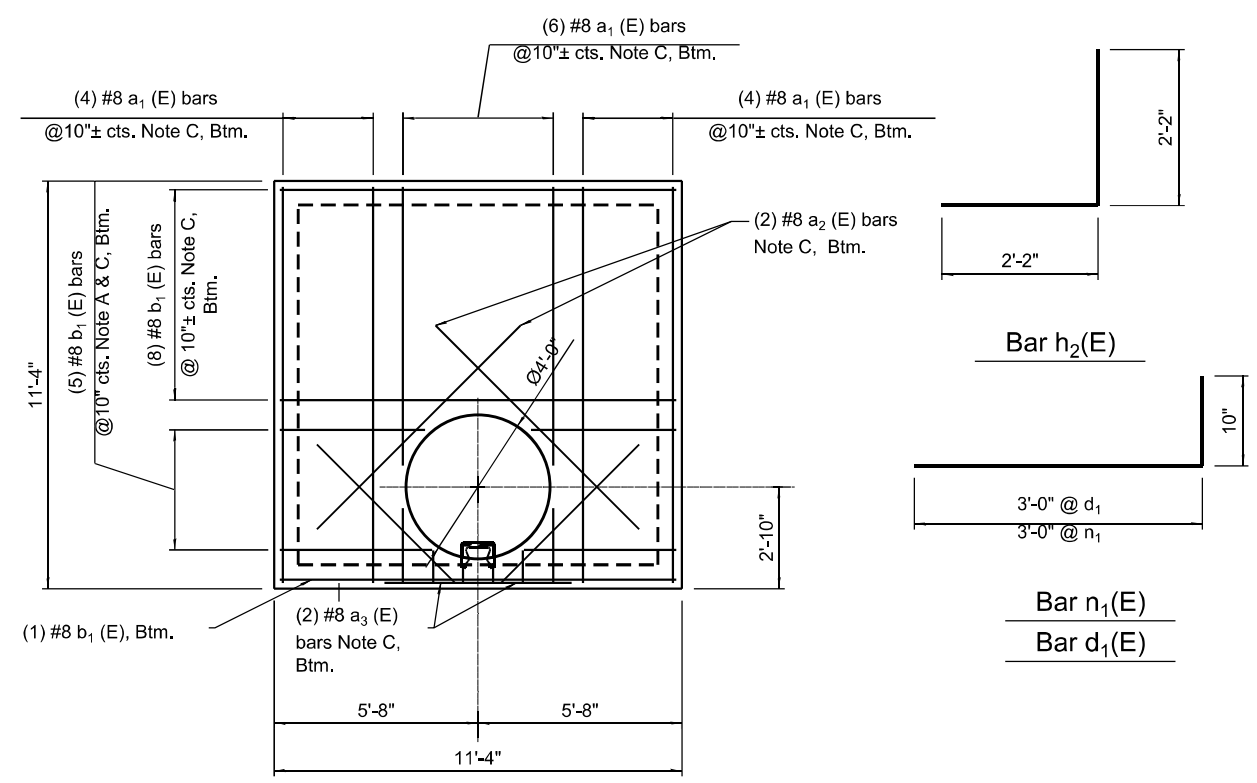


# SHEET NOT USED

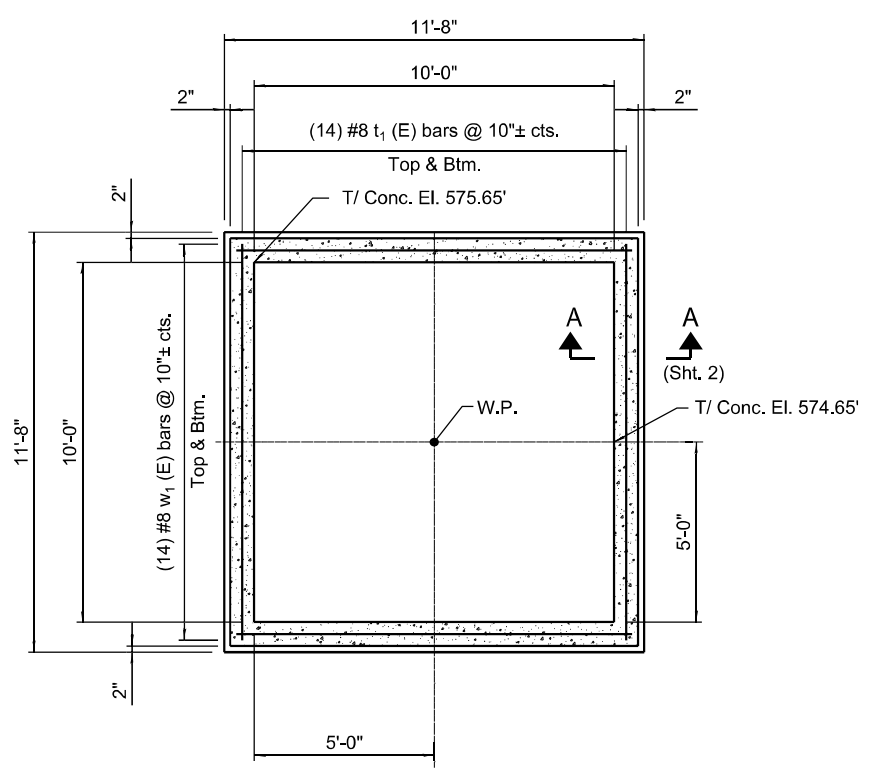
FILE NAME = ...ID160R49_sht_Drain_JunctionCham	DESIGNED - AAF	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PUMP STATION DRIVE JUNCTION CHAMBER # 98 – SHEET 2 OF 2</b>	F.A.P. RTE. 29 & 348	SECTION 3128-Z4-R&R5	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 238
DESIGNER NAME = KSUMRAK	DRAWN - AAF	REVISED -			CONTRACT NO. 60R49				
PLOT SCALE = N/A	CHECKED - BAP	REVISED -			ILLINOIS FED. AID PROJECT				
PN: 3730	DATE -	REVISED -			SCALE: NTS	SHEET NO. 2 OF 2 SHEETS	STA. N/A	TO STA. N/A	



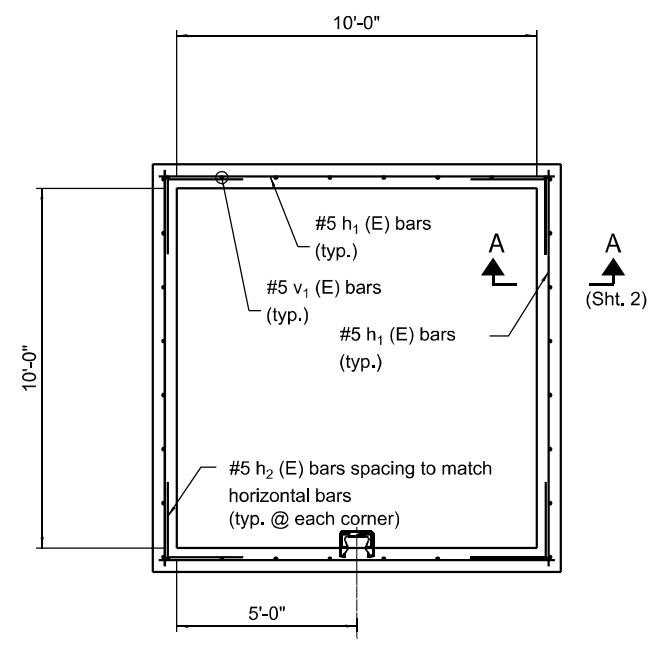
MANHOLE #353 - PLAN



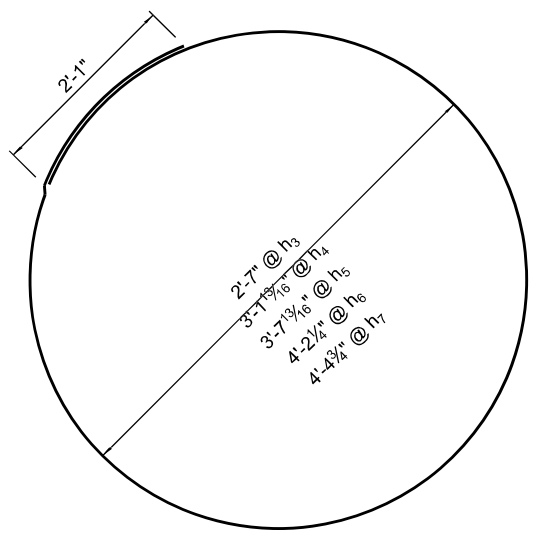
MANHOLE #353 - TOP SLAB REINFORCING PLAN



MANHOLE #353 - BOTTOM SLAB REINFORCING PLAN



MANHOLE #353 - WALL REINFORCING PLAN

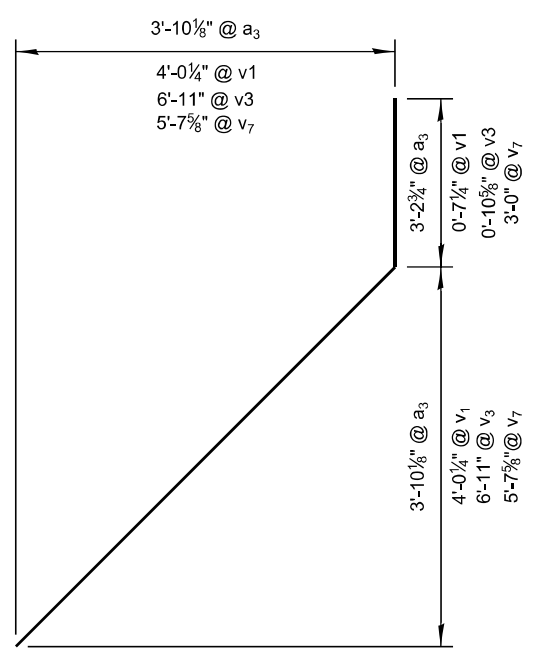


Bar  $h_3(E)$   
Bar  $h_4(E)$   
Bar  $h_5(E)$   
Bar  $h_7(E)$

Note A:  
Cut reinforcing in field around openings or pipe penetrations.

Note B:  
Reinforcing Bars @ Top & Bottom.

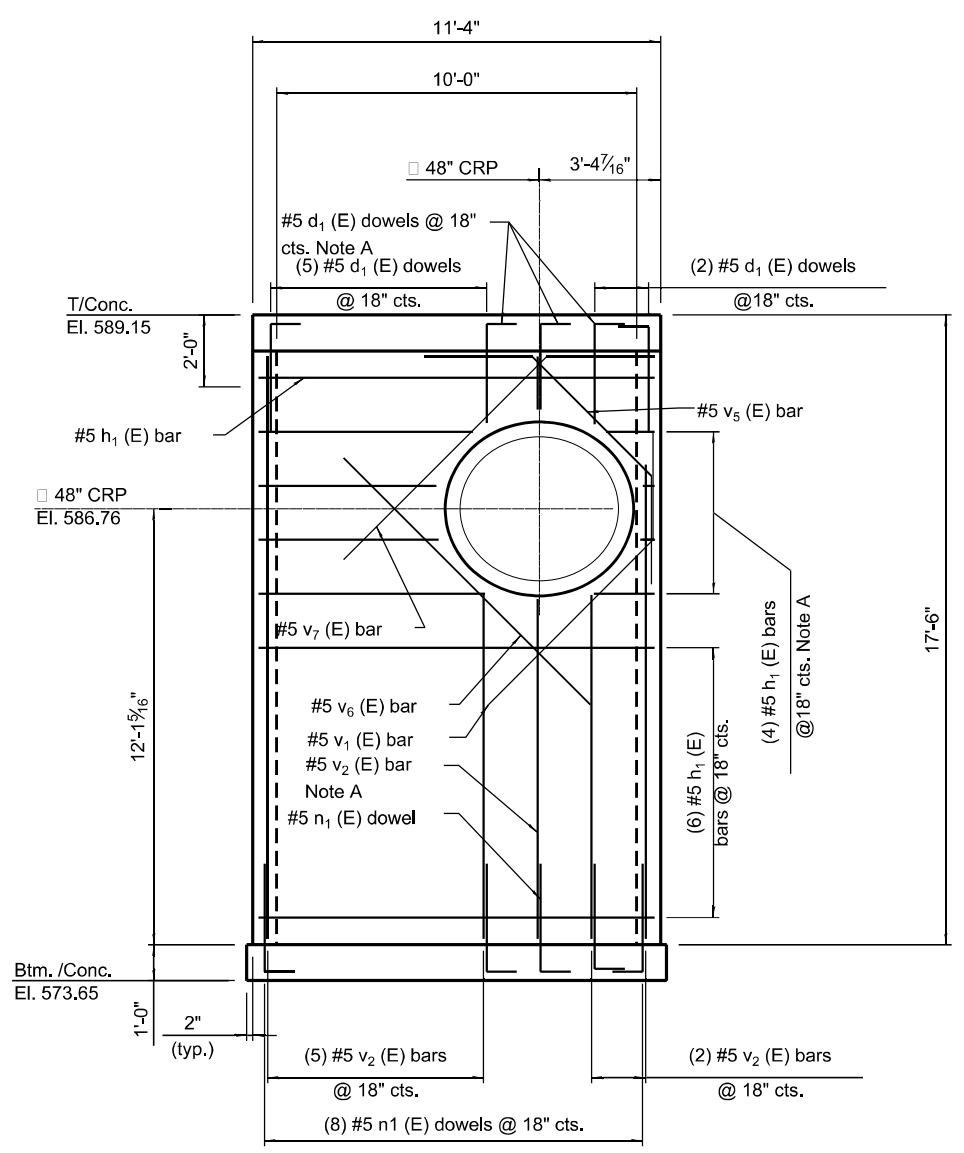
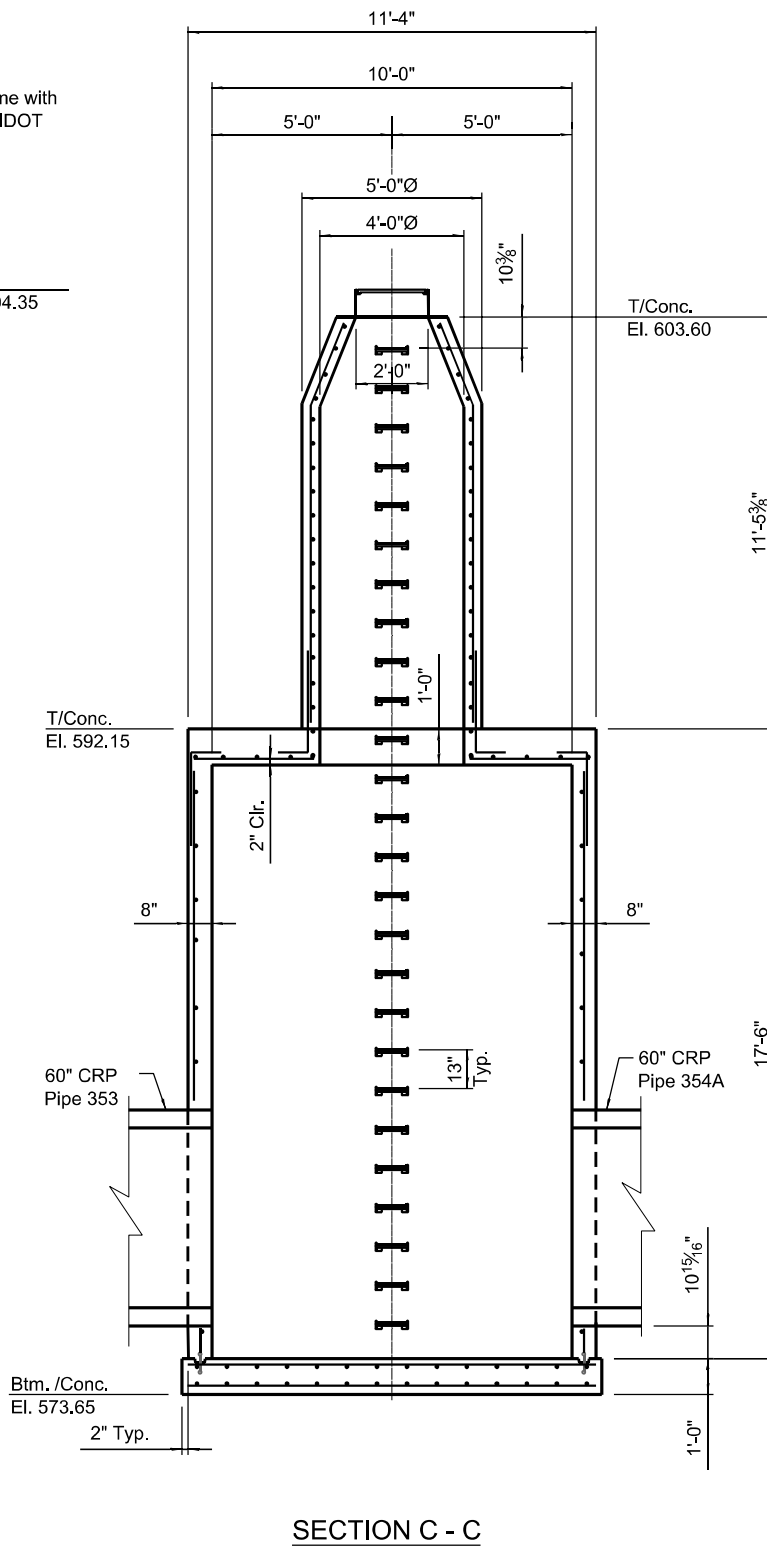
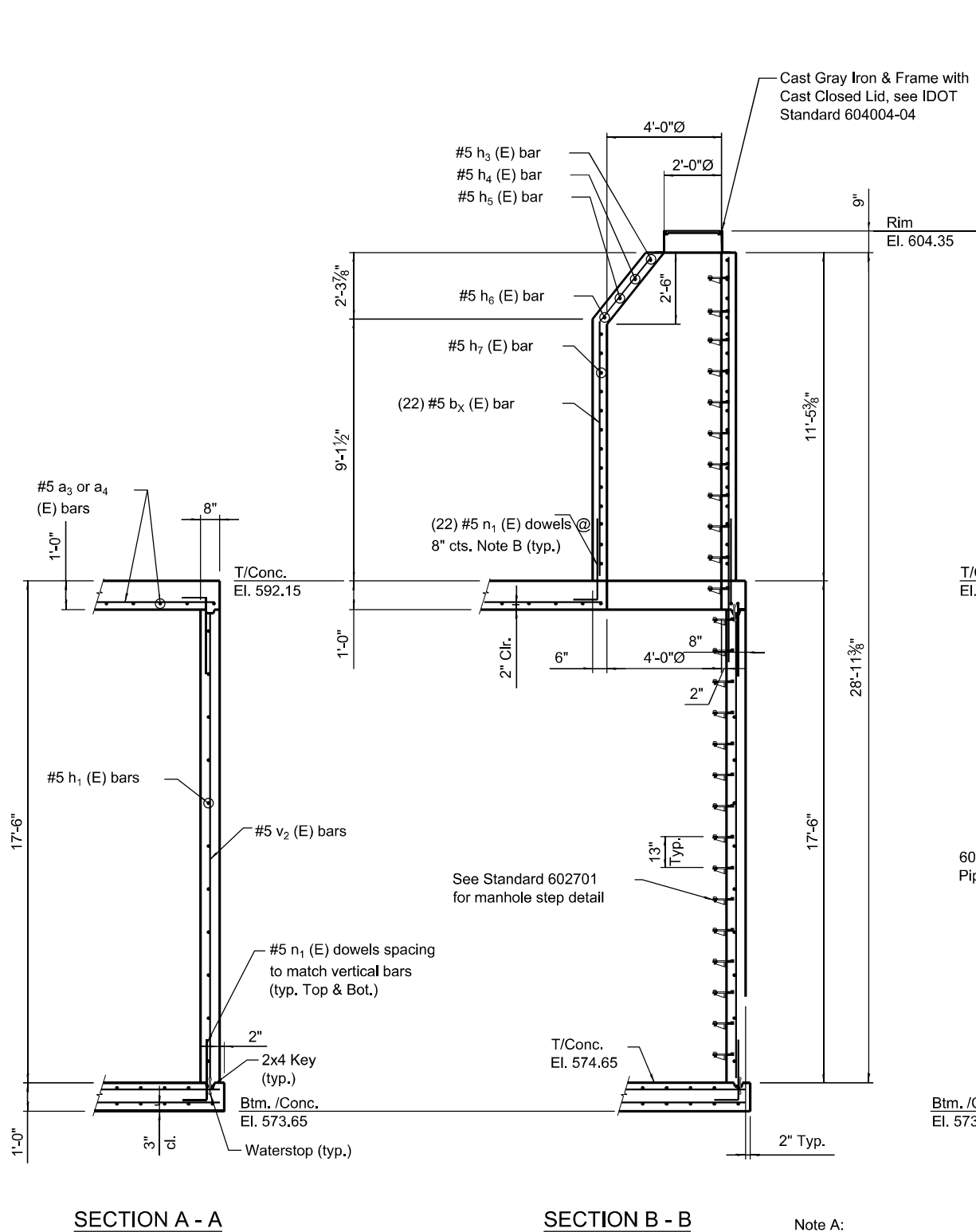
Note C:  
Reinforcing Bars @ Bottom only.



Bar  $a_3(E)$   
Bar  $v_1(E)$   
Bar  $v_3(E)$   
Bar  $v_4(E)$   
Bar  $v_5(E)$

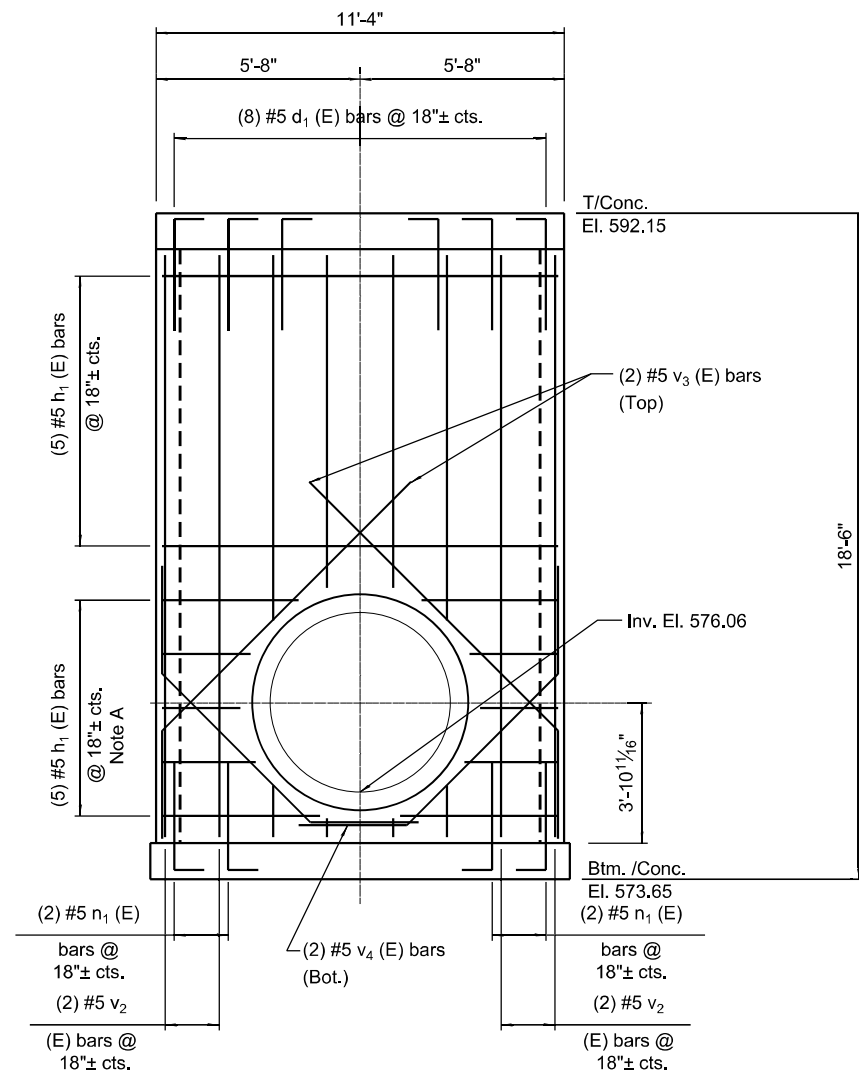
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$a_1(E)$	14	#8	11'-0"	—
$a_2(E)$	2	#8	8'-8"	—
$a_3(E)$	2	#8	8'-8"	—
$b_1(E)$	14	#8	11'-0"	—
$h_1(E)$	48	#5	11'-0"	—
$h_2(E)$	48	#5	4'-4"	—
$h_3(E)$	1	#5	10'-2"	—
$h_4(E)$	1	#5	11'-11"	—
$h_5(E)$	1	#5	13'-7"	—
$h_6(E)$	1	#5	15'-3"	—
$h_7(E)$	13	#5	17'-0"	—
$d_1(E)$	32	#5	3'-11"	—
$n_1(E)$	32	#5	3'-11"	—
$t_1(E)$	28	#8	11'-4"	—
$v_1(E)$	2	#5	6'-4"	—
$v_2(E)$	32	#5	7'-11"	—
$v_3(E)$	4	#5	7'-11"	—
$v_4(E)$	4	#5	9'-1"	—
$v_5(E)$	2	#5	8'-4"	—
$v_6(E)$	1	#5	9'-8"	—
$v_7(E)$	1	#5	11'-0"	—
$w_1(E)$	28	#8	11'-4"	—
Structure Excavation			Cu. Yd.	0
Concrete Structures			Cu. Yd.	0
Reinforcement Bars, Epoxy Coated			Pound	3,790

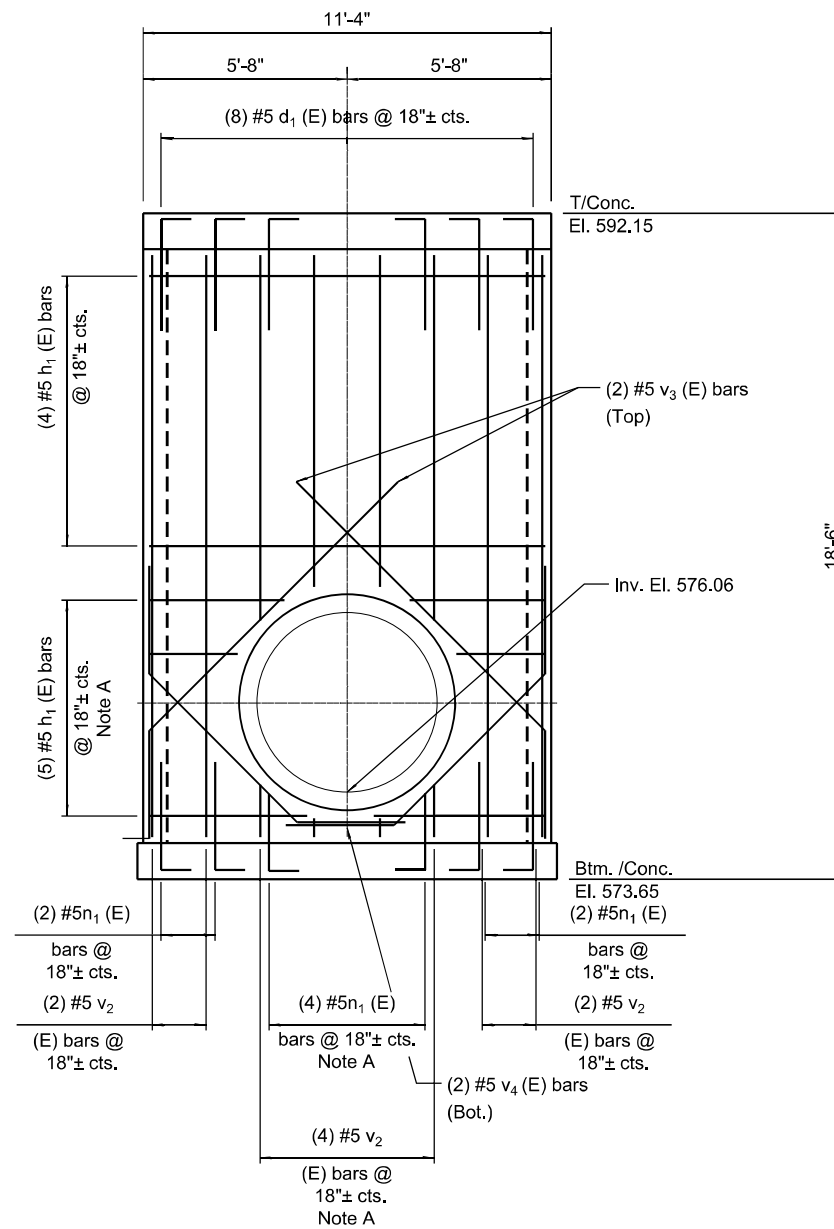


**Note A:**  
Cut reinforcing in field around openings or pipe penetrations.

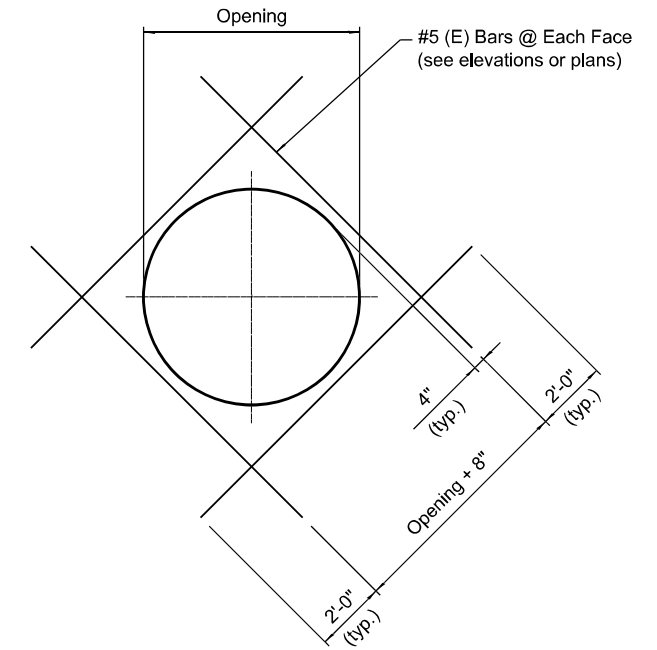
**Note B:**  
Bend dowels d<sub>2</sub> as required in field to suit curve of cone.



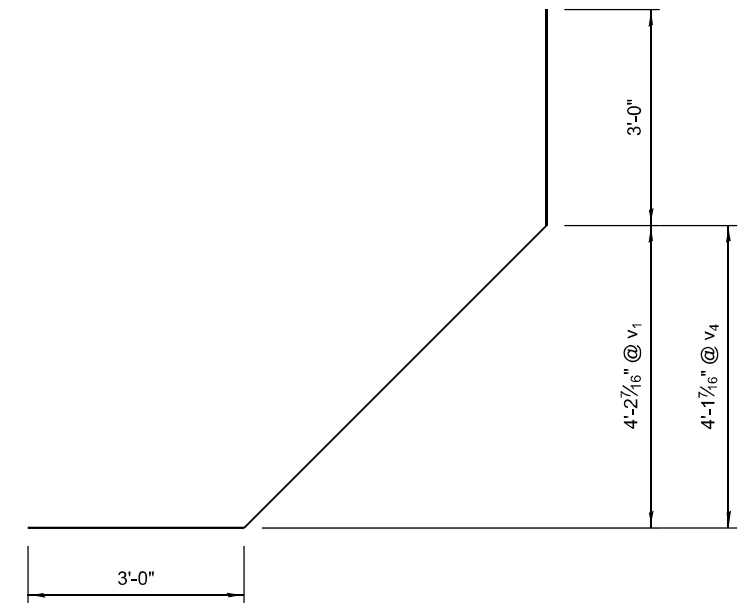
**EAST WALL REINFORCING ELEVATION**  
(Looking West)



**WEST WALL REINFORCING ELEVATION**  
(Looking East)



**WALL PENETRATION ADDITIONAL REINFORCING DETAIL**



Bar v<sub>5</sub>(E)  
Bar v<sub>4</sub>(E)

**Note A:**  
Cut reinforcing in field around openings or pipe penetrations.

**Note B:**  
Bend dowels d<sub>2</sub> as required in field to suit curve of cone.

FILE NAME = ...10160949_shl_Drain_JunctionChamber.dwg	DESIGNED - AAF	REVISIONS
THE HOH GROUP, INC. ARCHITECTS   ENGINEERS	DRAWN - AAF	REVISIONS
USER NAME = KSUMRAK	CHECKED - BAP	REVISIONS
PLOT SCALE = N/A	DATE -	REVISIONS
PN: 3730	PLOT DATE = 11/30/2023	REVISIONS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

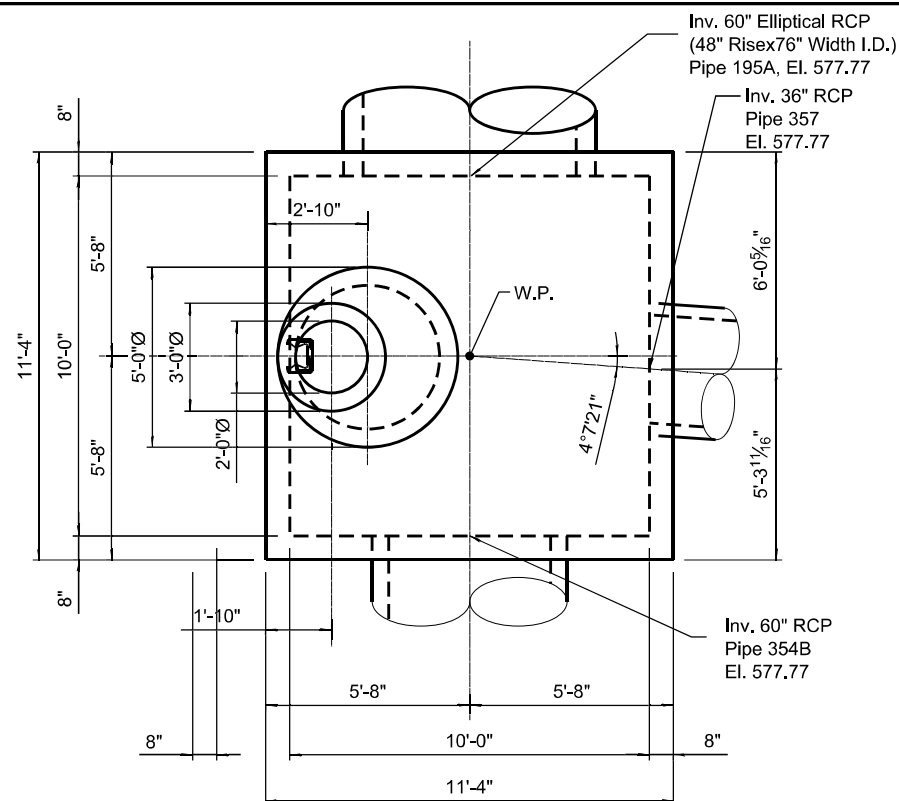
PUMP STATION DRIVE  
JUNCTION CHAMBER # 353 - SHEET 3 OF 3

SCALE: NTS SHEET NO. 3 OF 3 SHEETS STA. N/A TO STA. N/A

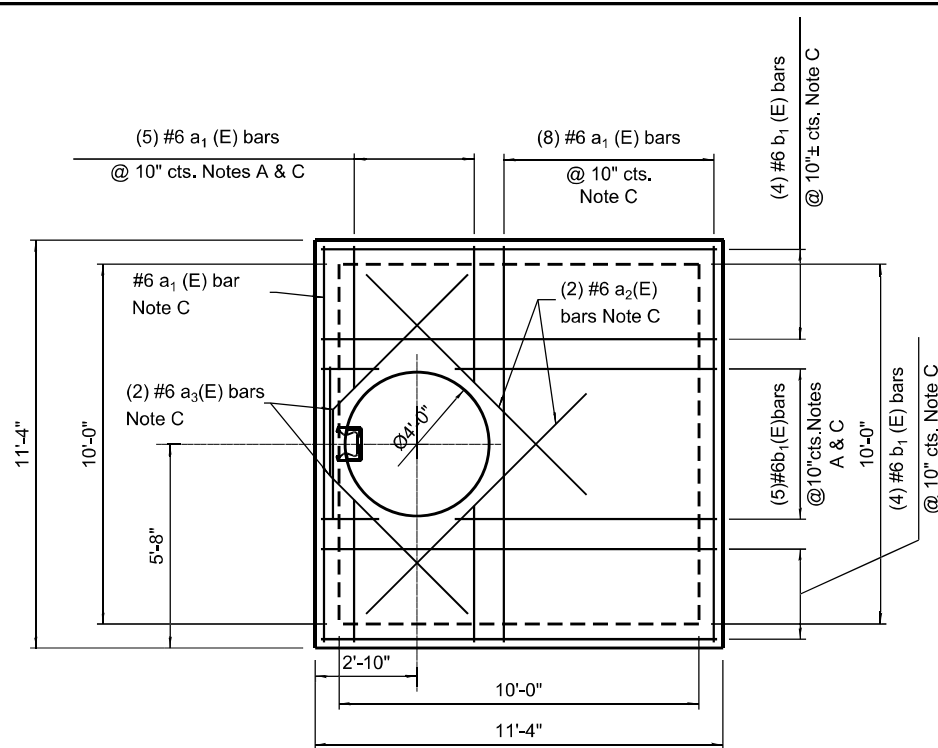
F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 241
CONTRACT NO. 60R49			ILLINOIS FED. AID PROJECT	

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a <sub>1</sub> (E)	13	#6	11'-0"	—
a <sub>2</sub> (E)	2	#6	8'-8"	—
a <sub>3</sub> (E)	2	#6	8'-4"	—
b <sub>1</sub> (E)	13	#6	11'-0"	—
d <sub>1</sub> (E)	24	#5	3'-4"	┘
d <sub>2</sub> (E)	22	#5	5'-10"	┘
n <sub>1</sub> (E)	19	#5	4'-2"	┘
h <sub>1</sub> (E)	24	#5	10'-6"	—
h <sub>2</sub> (E)	24	#5	4'-4"	┘
h <sub>4</sub> (E)	2	#5	16'-3"	—
h <sub>5</sub> (E)	1	#5	15'-2"	—
h <sub>6</sub> (E)	1	#5	13'-7"	—
h <sub>7</sub> (E)	1	#5	11'-10"	—
h <sub>8</sub> (E)	1	#5	10'-1"	—
t <sub>1</sub> (E)	14	#8	11'-2"	—
v <sub>1</sub> (E)	28	#5	8'-3"	—
v <sub>4</sub> (E)	2	#5	9'-11"	—
v <sub>5</sub> (E)	2	#5	8'-4"	—
v <sub>6</sub> (E)	4	#5	9'-0"	—
v <sub>7</sub> (E)	4	#5	9'-9"	—
w <sub>1</sub> (E)	14	#8	11'-2"	—
Structure Excavation			Cu. Yd.	392.76
Concrete Structures			Cu. Yd.	17.25
Reinforcement Bars, Epoxy Coated			Pound	2,320



**MANHOLE #357 - PLAN**

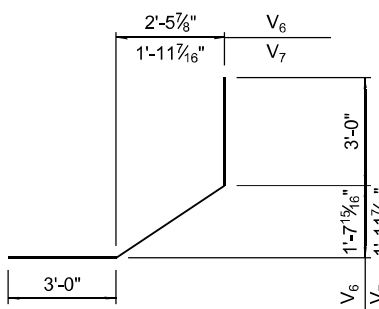
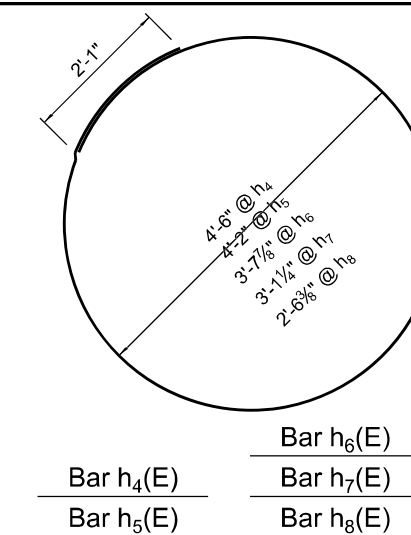


**MANHOLE #357 - TOP SLAB REINFORCING PLAN**

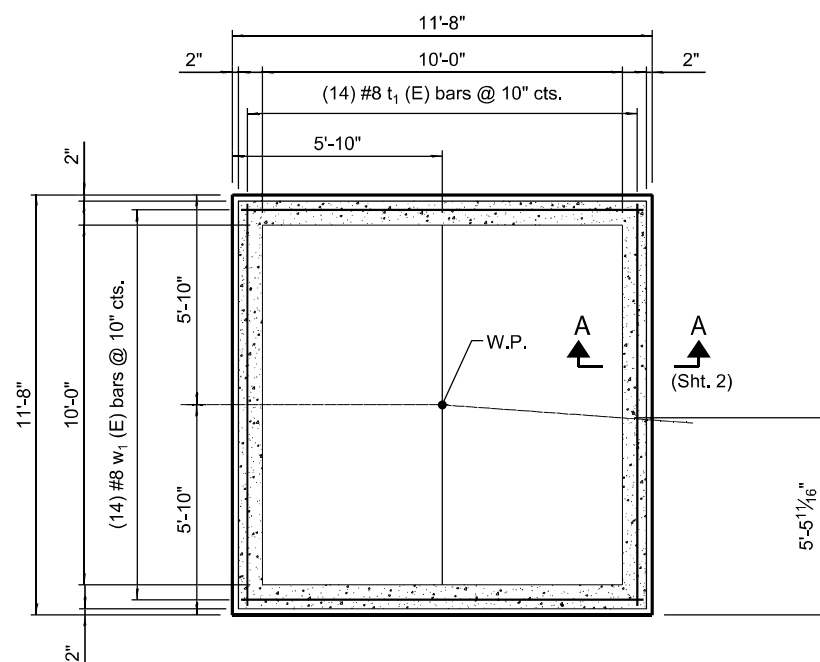
**Note A:**  
Cut reinforcing in field around openings or pipe penetrations.

**Note B:**  
Reinforcing Bars @ Top & Bottom.

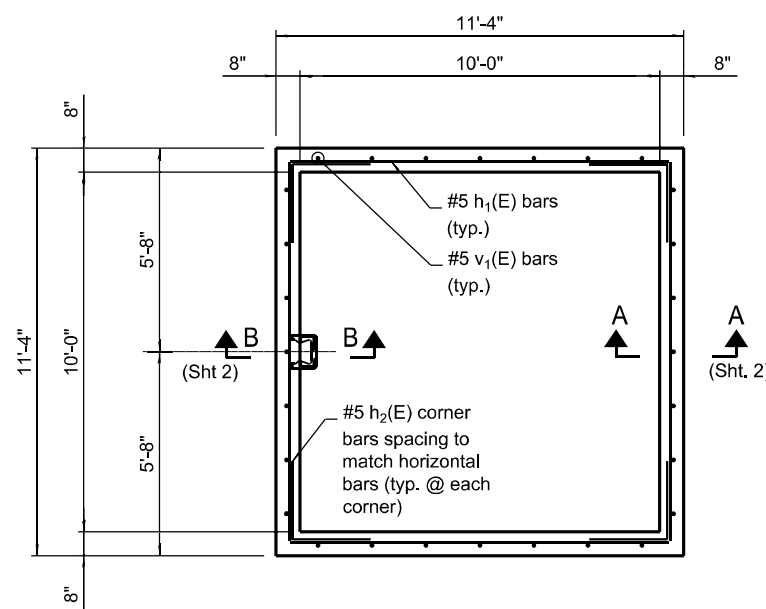
**Note C:**  
Reinforcing Bars @ Bottom only.



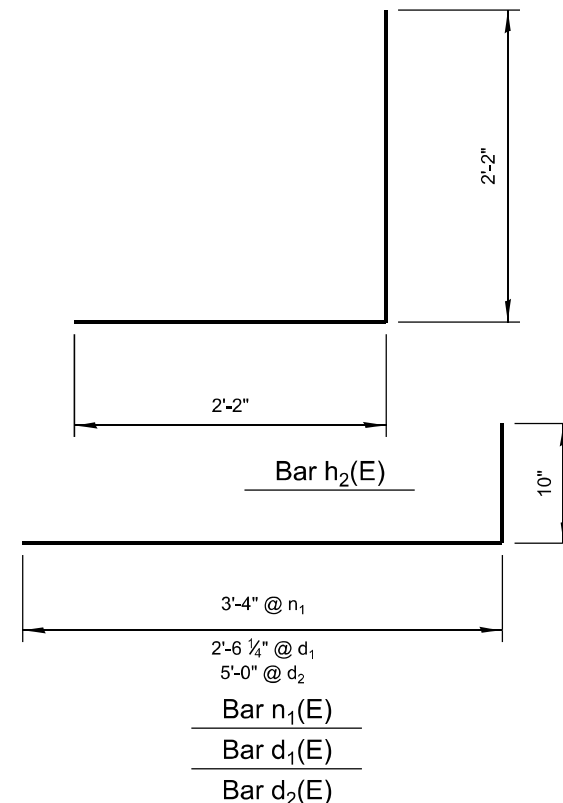
**Bar v<sub>6</sub>(E)**  
**Bar v<sub>7</sub>(E)**



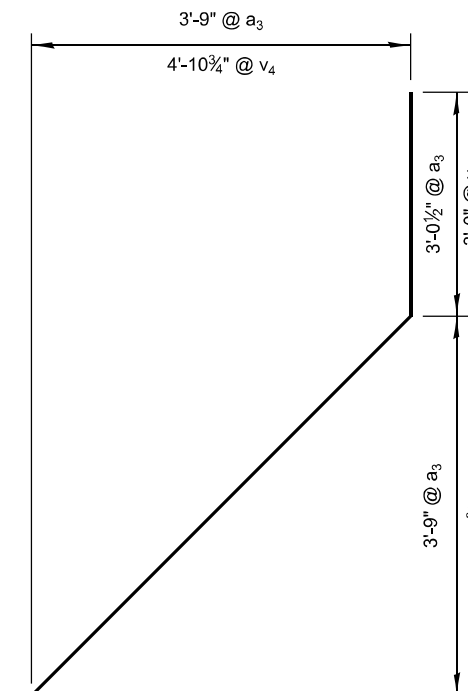
**MANHOLE #357 - BOTTOM SLAB REINFORCING PLAN**



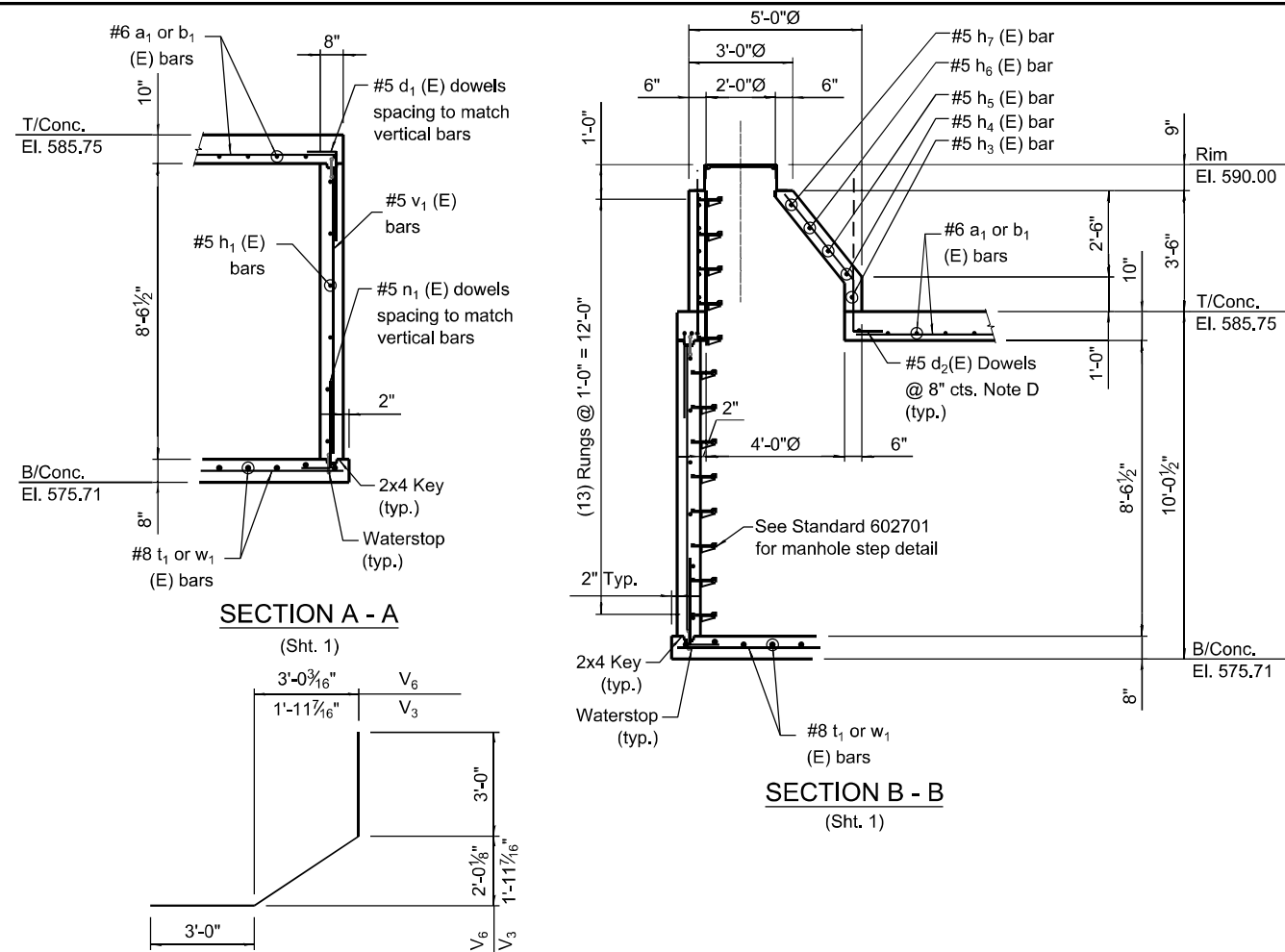
**MANHOLE #357 - WALL REINFORCING PLAN**



**Bar h<sub>2</sub>(E)**  
**Bar n<sub>1</sub>(E)**  
**Bar d<sub>1</sub>(E)**  
**Bar d<sub>2</sub>(E)**



**Bar a<sub>3</sub>(E)**  
**Bar v<sub>4</sub>(E)**



**SECTION A - A**  
(Sht. 1)

**SECTION B - B**  
(Sht. 1)

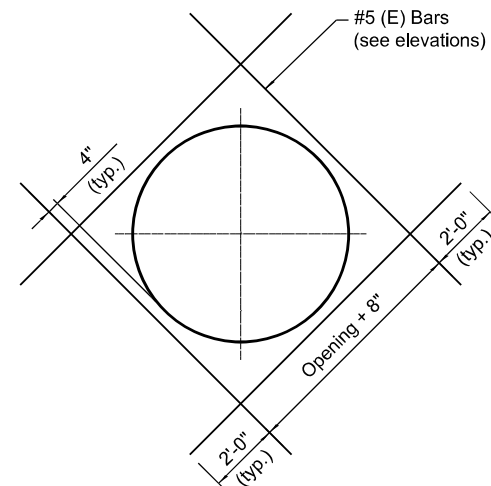
Bar v<sub>3</sub>(E)  
Bar v<sub>6</sub>(E)

**Note A:**  
Cut reinforcing in field around openings or pipe penetrations.

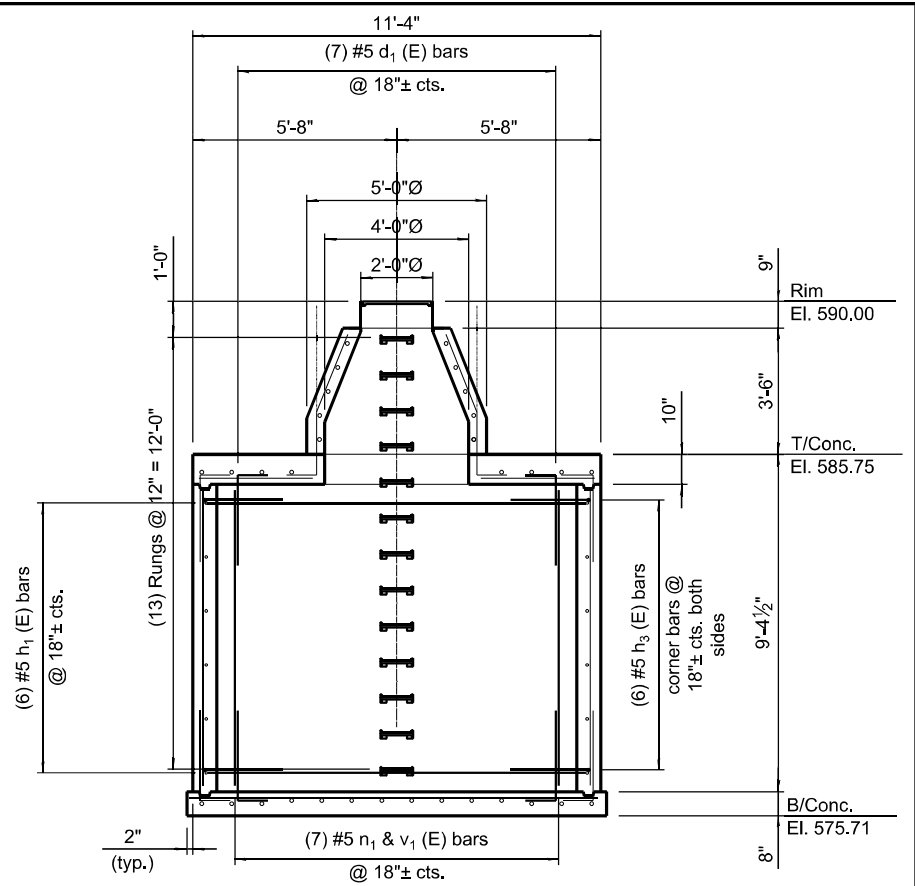
**Note B:**  
Reinforcing Bars @ Top only.

**Note C:**  
Reinforcing Bars @ Bottom only.

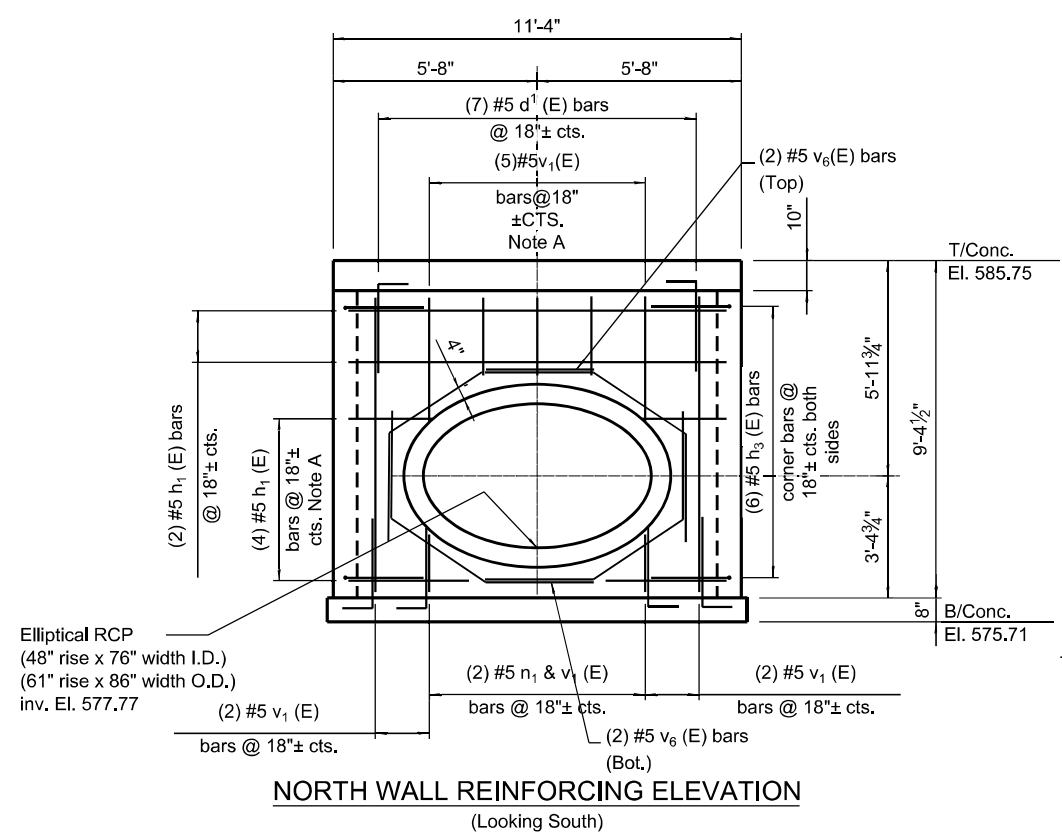
**Note D:**  
Bend Dowels d<sub>2</sub> as required in field to suit angle of cone. Cut as required.



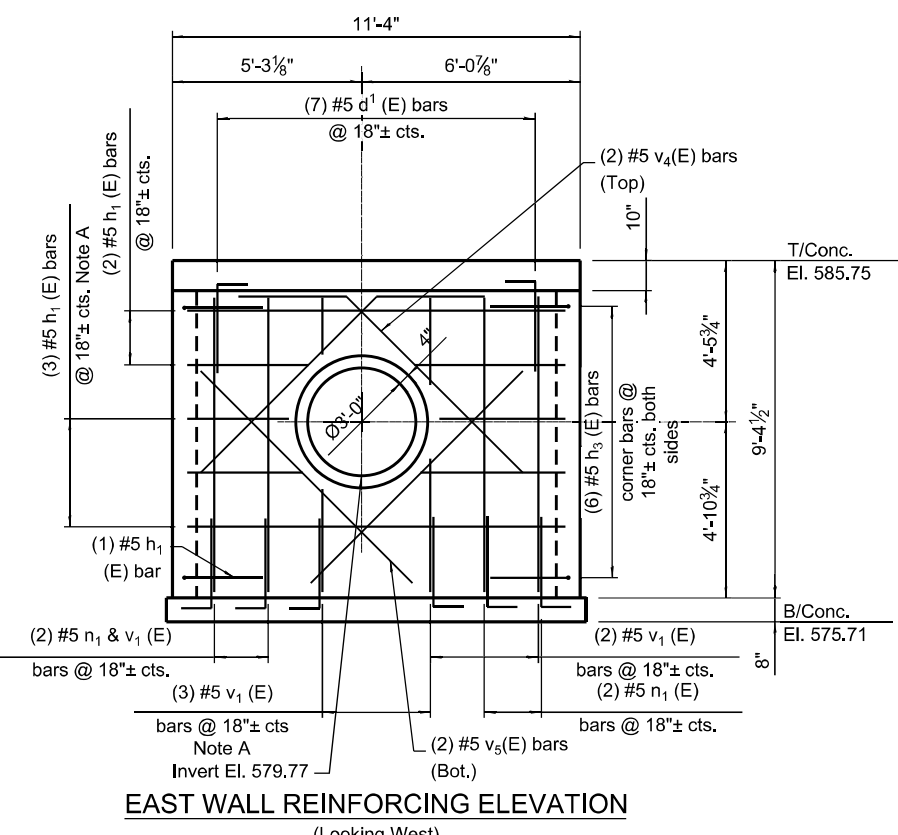
**WALL PENETRATION ADDITIONAL REINFORCING DETAIL**



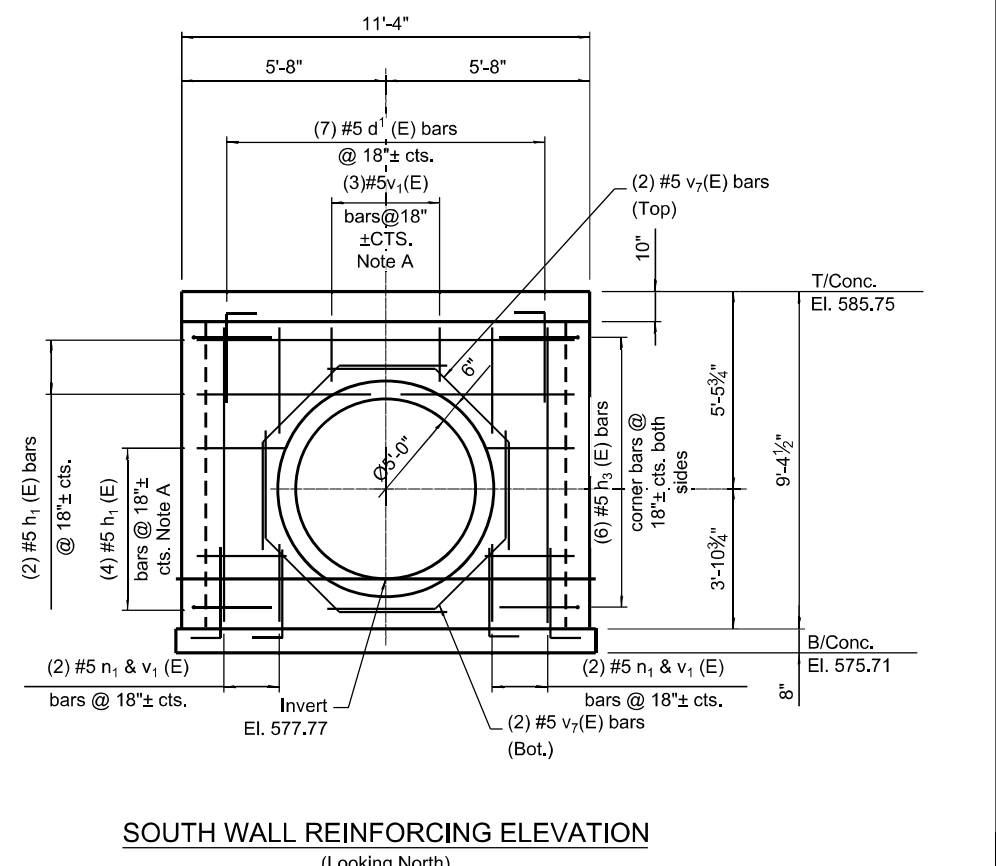
**WEST WALL REINFORCING ELEVATION**  
(Looking West)



**NORTH WALL REINFORCING ELEVATION**  
(Looking South)



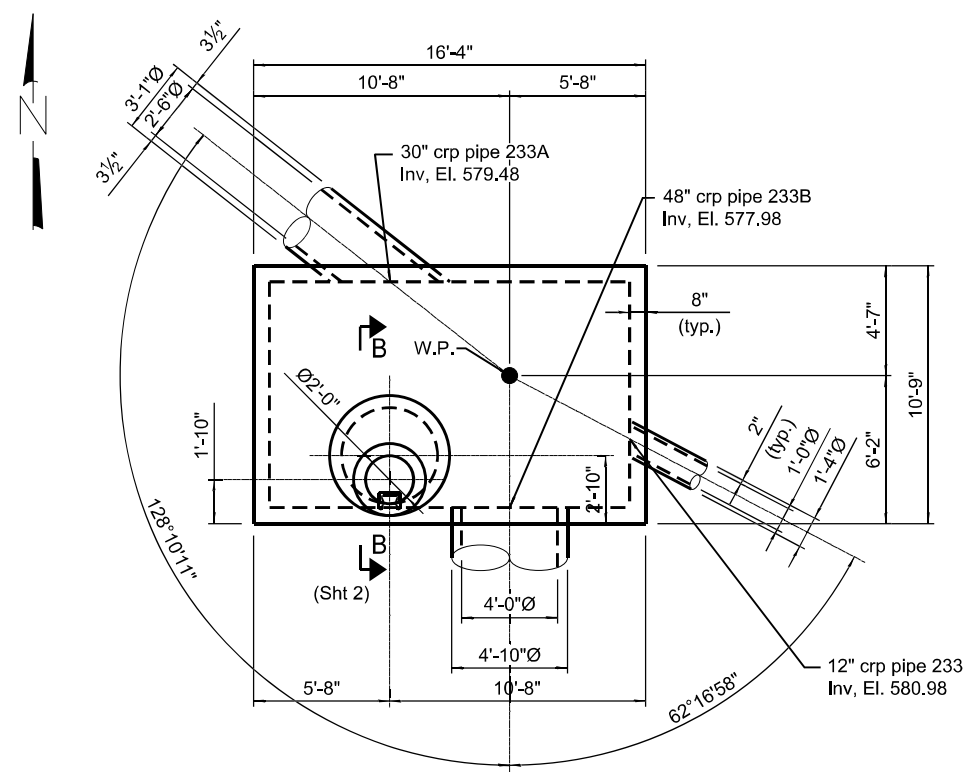
**EAST WALL REINFORCING ELEVATION**  
(Looking West)



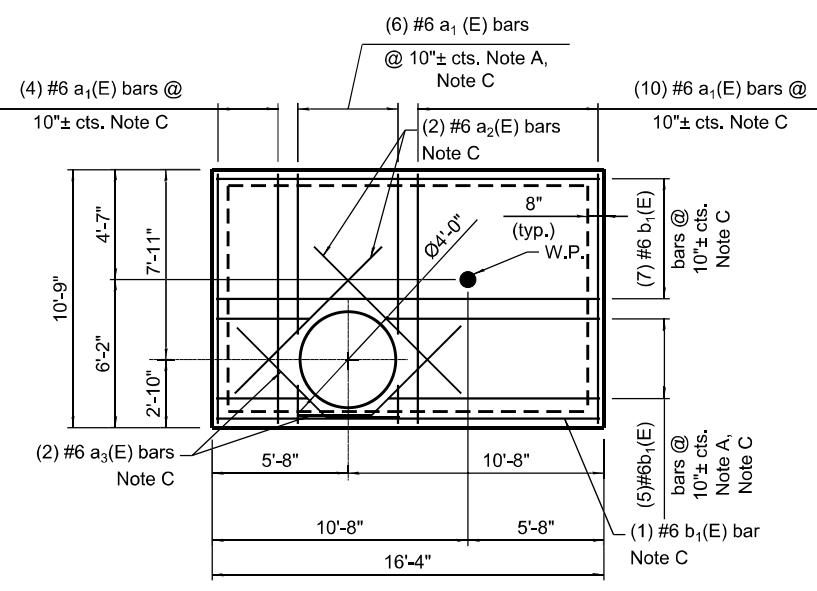
**SOUTH WALL REINFORCING ELEVATION**  
(Looking North)

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a <sub>1</sub> (E)	20	#6	10'-5"	—
a <sub>2</sub> (E)	2	#6	8'-8"	—
a <sub>3</sub> (E)	2	#6	8'-5"	—
b <sub>1</sub> (E)	12	#6	16'-0"	—
d <sub>1</sub> (E)	34	#5	3'-5"	┌
d <sub>2</sub> (E)	22	#5	4'-1"	┌
n <sub>1</sub> (E)	29	#5	3'-5"	┌
h <sub>1</sub> (E)	10	#5	15'-4"	—
h <sub>2</sub> (E)	10	#5	9'-10"	—
h <sub>3</sub> (E)	20	#5	4'-4"	—
h <sub>4</sub> (E)	1	#5	16'-3"	—
h <sub>5</sub> (E)	1	#5	13'-0"	—
h <sub>6</sub> (E)	1	#5	9'-10"	—
t <sub>1</sub> (E)	20	#8	10'-7"	—
v <sub>1</sub> (E)	34	#5	7'-4"	—
v <sub>3</sub> (E)	4	#5	6'-1"	—
v <sub>8</sub> (E)	1	#5	8'-10"	—
v <sub>9</sub> (E)	1	#5	9'-3"	—
v <sub>10</sub> (E)	1	#5	7'-5"	—
v <sub>11</sub> (E)	1	#5	8'-0"	—
v <sub>12</sub> (E)	2	#5	9'-6"	—
v <sub>13</sub> (E)	2	#5	9'-5"	—
w <sub>1</sub> (E)	13	#8	16'-2"	—
Structure Excavation			Cu. Yd.	288.74
Concrete Structures			Cu. Yd.	20.1
Reinforcement Bars, Epoxy Coated			Pound	660

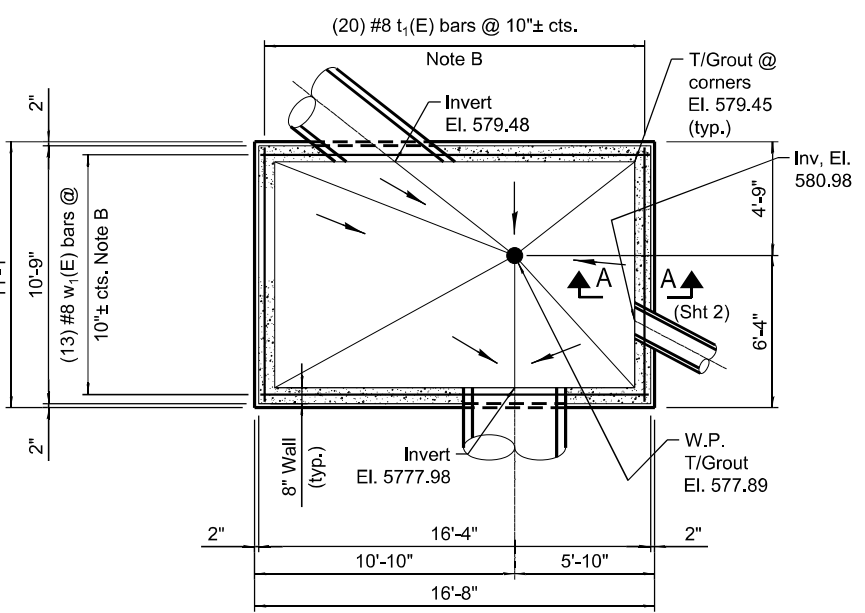


**MANHOLE #E195 - PLAN**

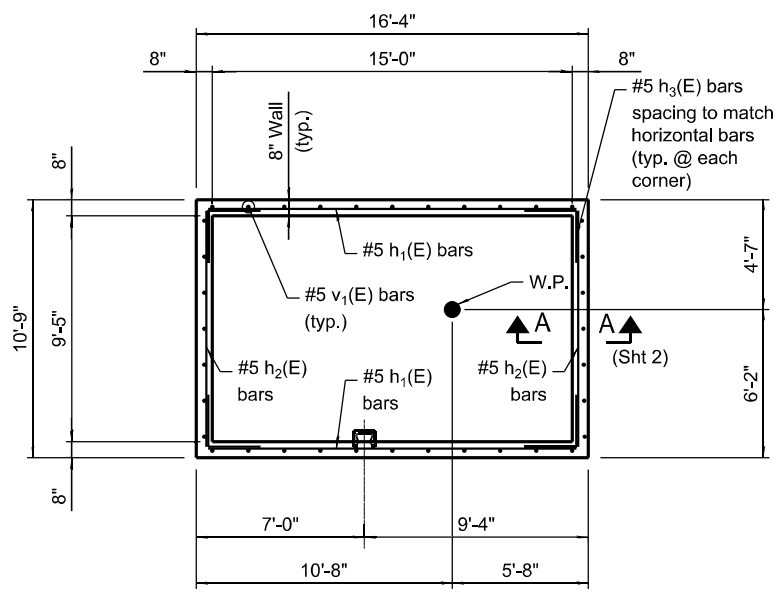


**MANHOLE #E195 - TOP SLAB REINFORCING PLAN**

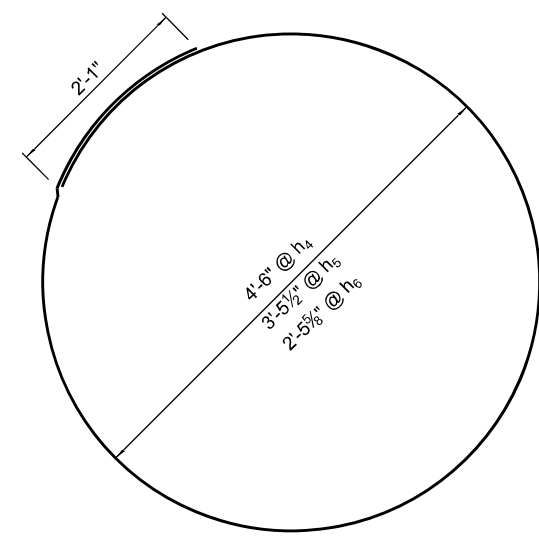
- Note A:  
Cut reinforcing in field around openings or pipe penetrations.
- Note B:  
Reinforcing Bars @ Top only.
- Note C:  
Reinforcing Bars @ Bottom only.



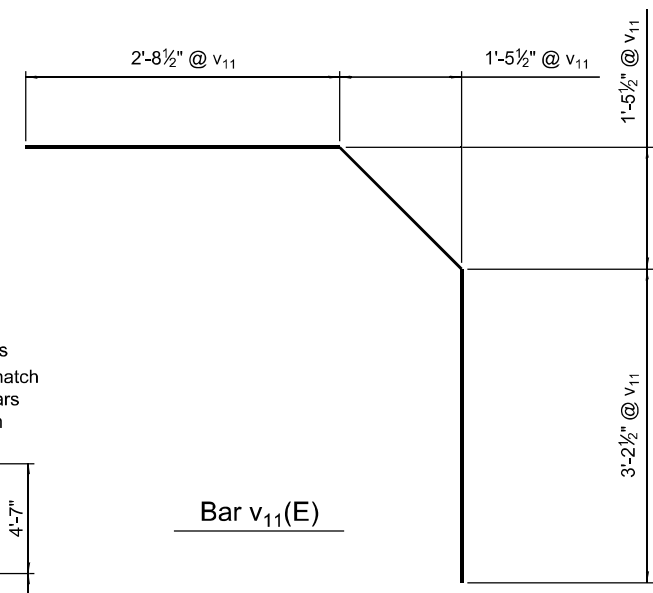
**MANHOLE #E195 - BOTTOM SLAB REINFORCEMENT PLAN**



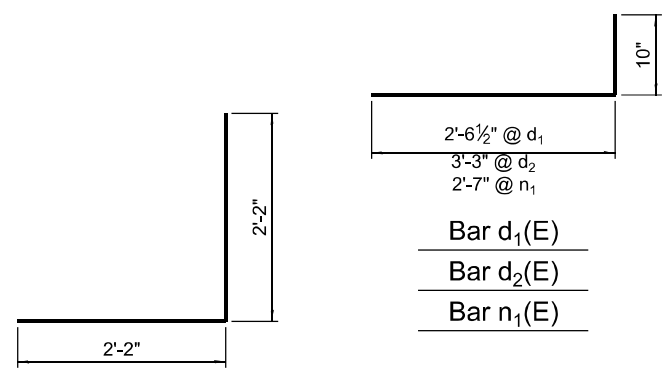
**MANHOLE #E195 - WALL REINFORCEMENT PLAN**



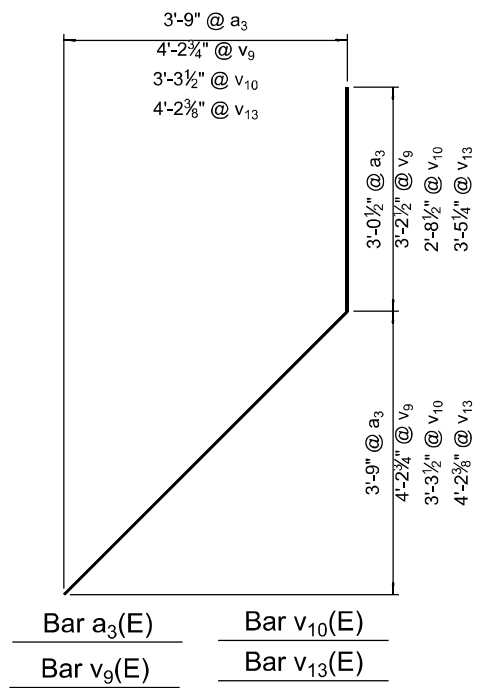
Bar h<sub>4</sub>(E)  
Bar h<sub>5</sub>(E)  
Bar h<sub>6</sub>(E)



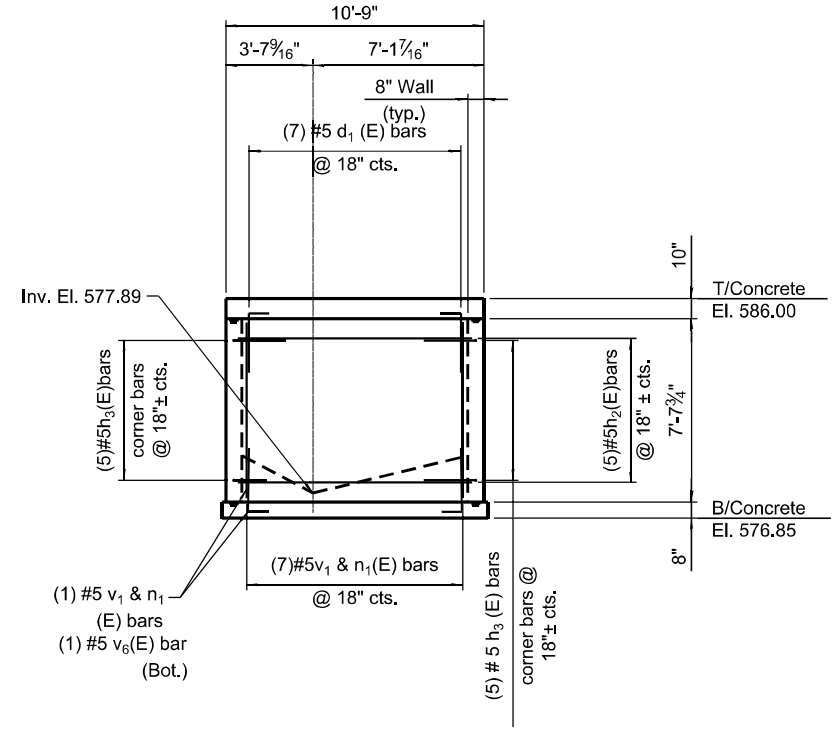
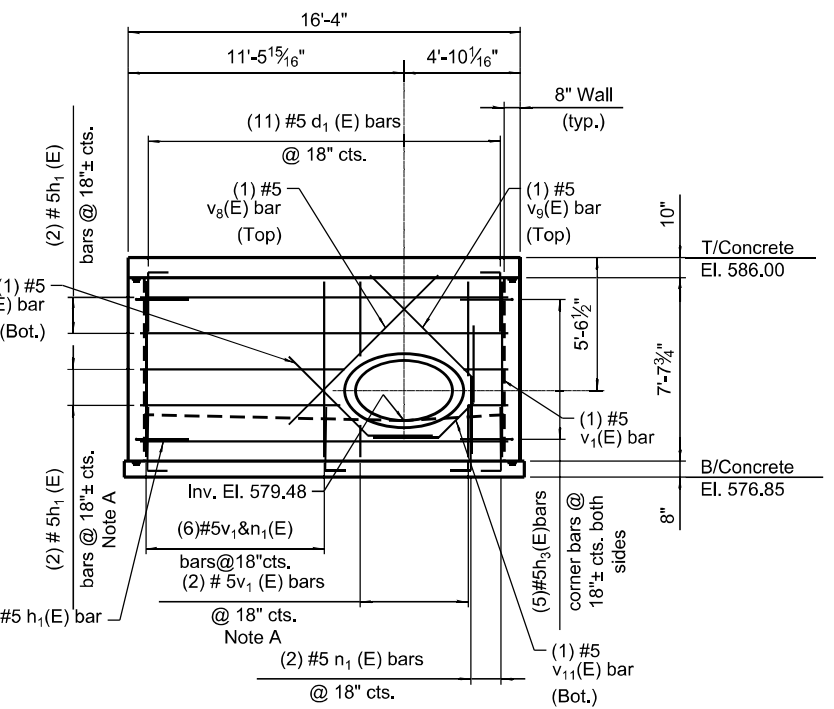
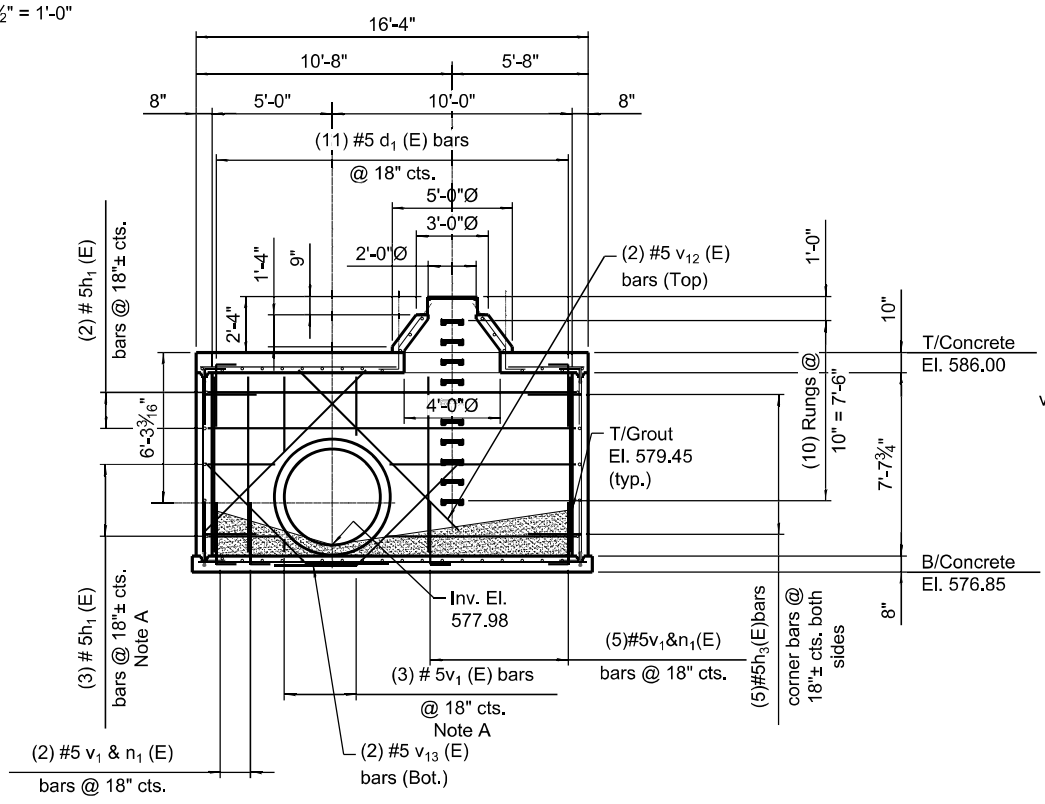
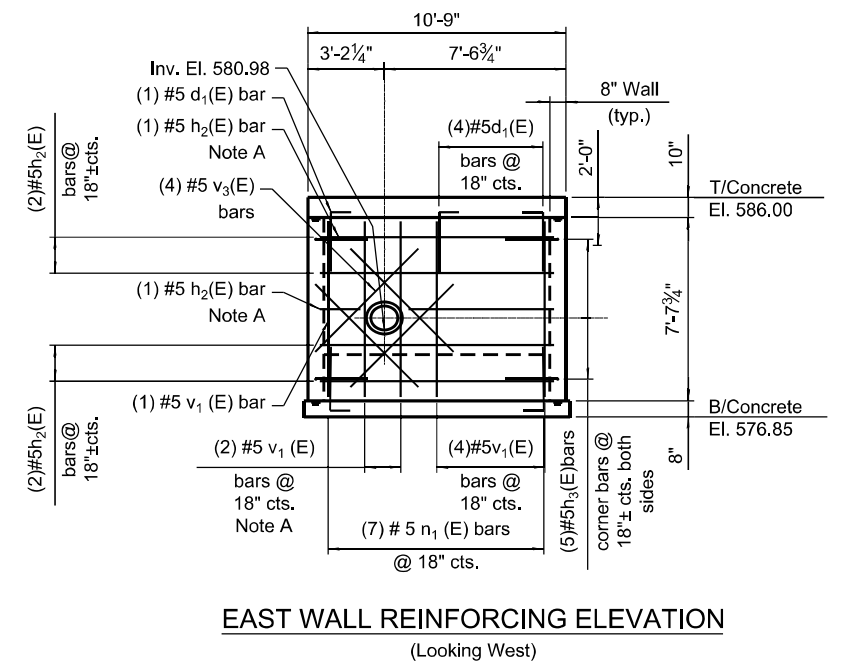
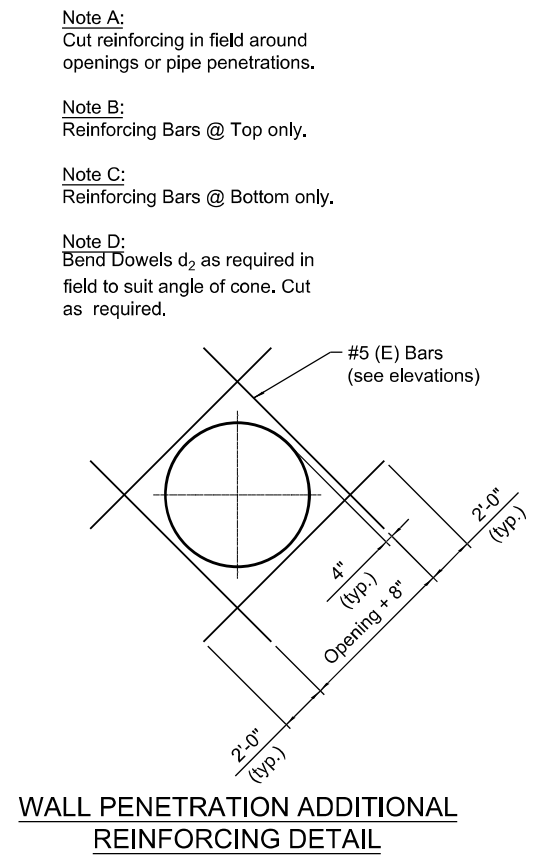
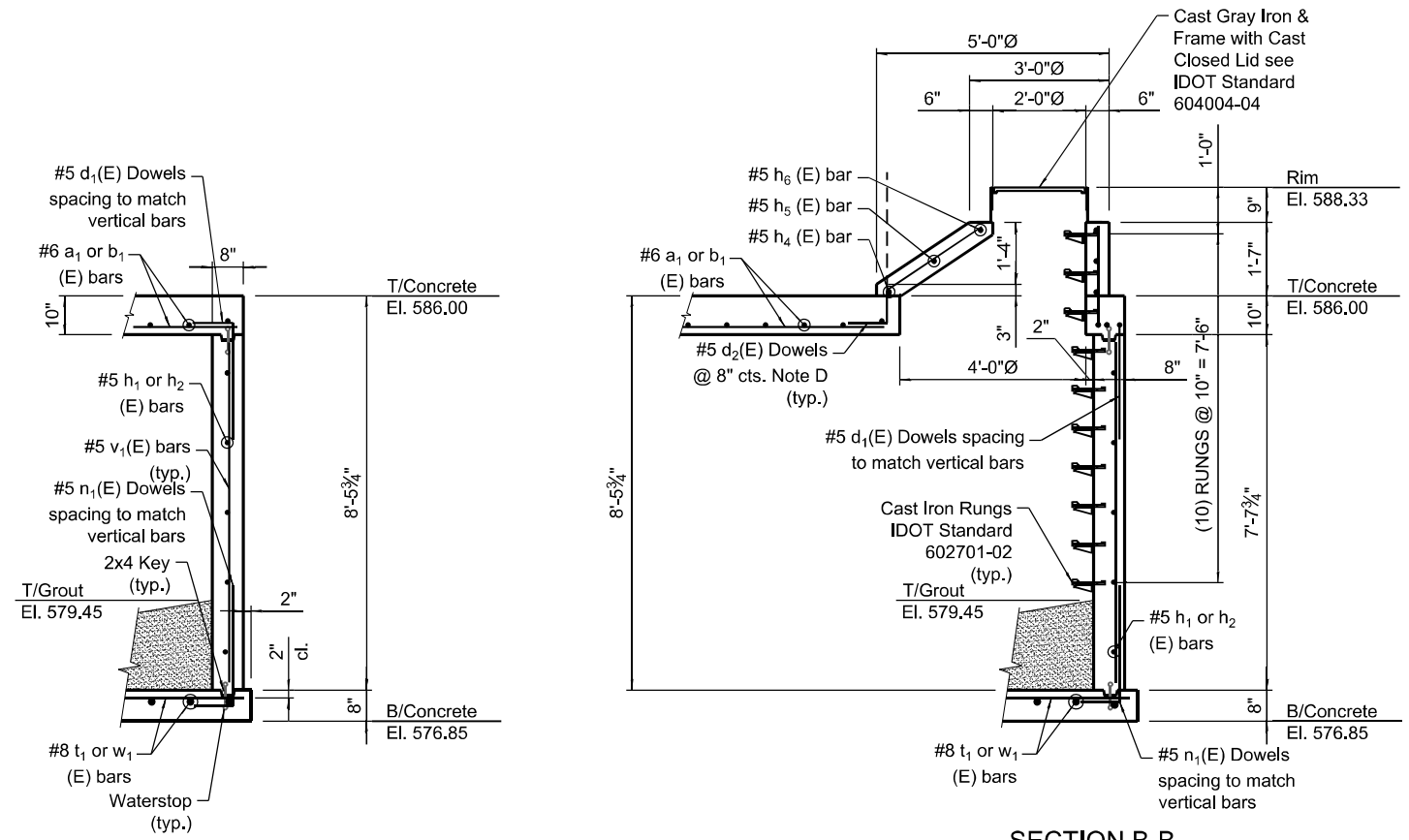
Bar v<sub>11</sub>(E)



Bar d<sub>1</sub>(E)  
Bar d<sub>2</sub>(E)  
Bar n<sub>1</sub>(E)



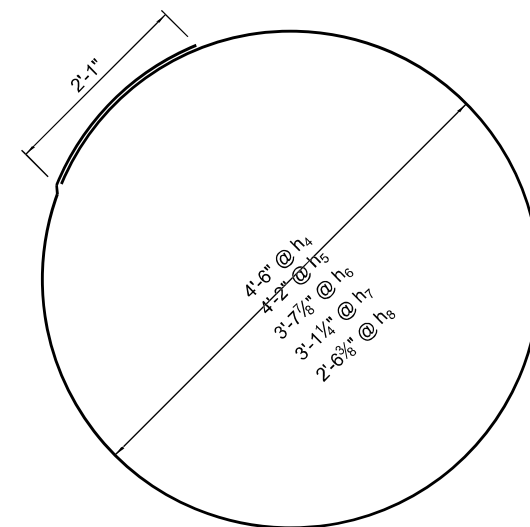
Bar a<sub>3</sub>(E) Bar v<sub>9</sub>(E)  
Bar v<sub>10</sub>(E) Bar v<sub>13</sub>(E)



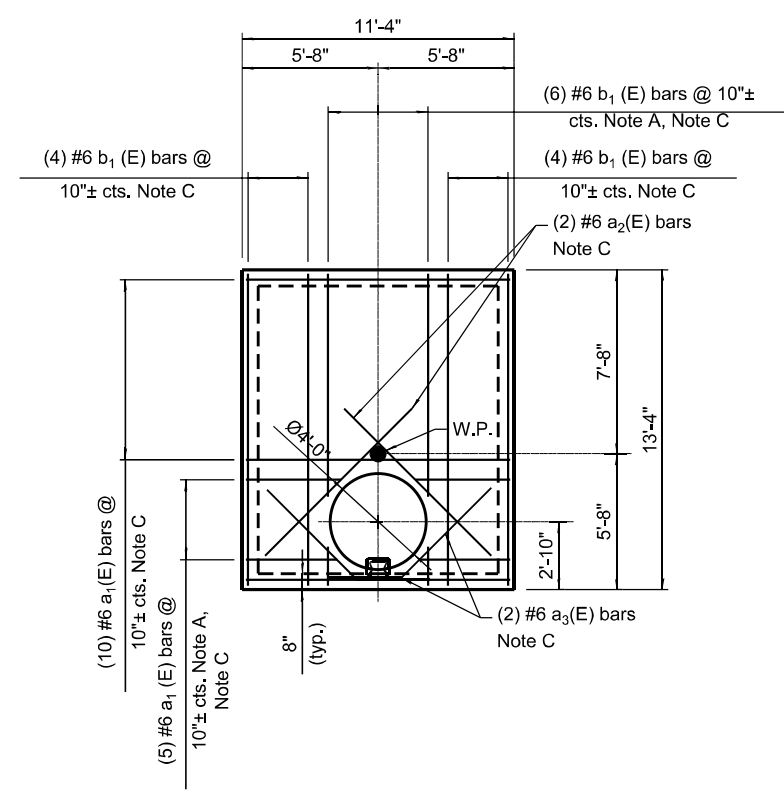
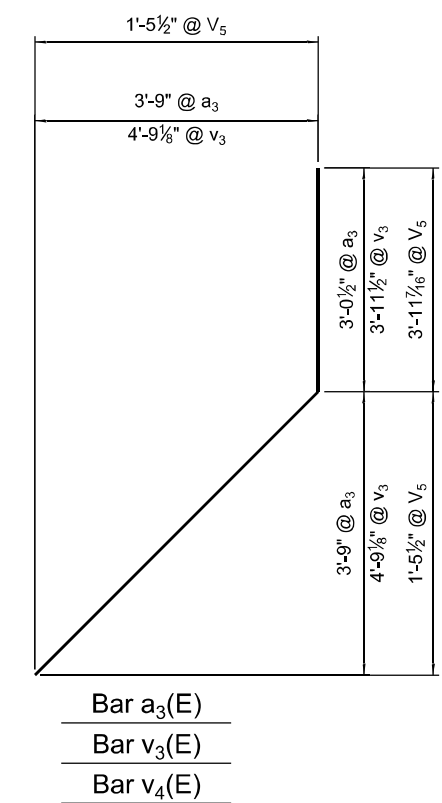
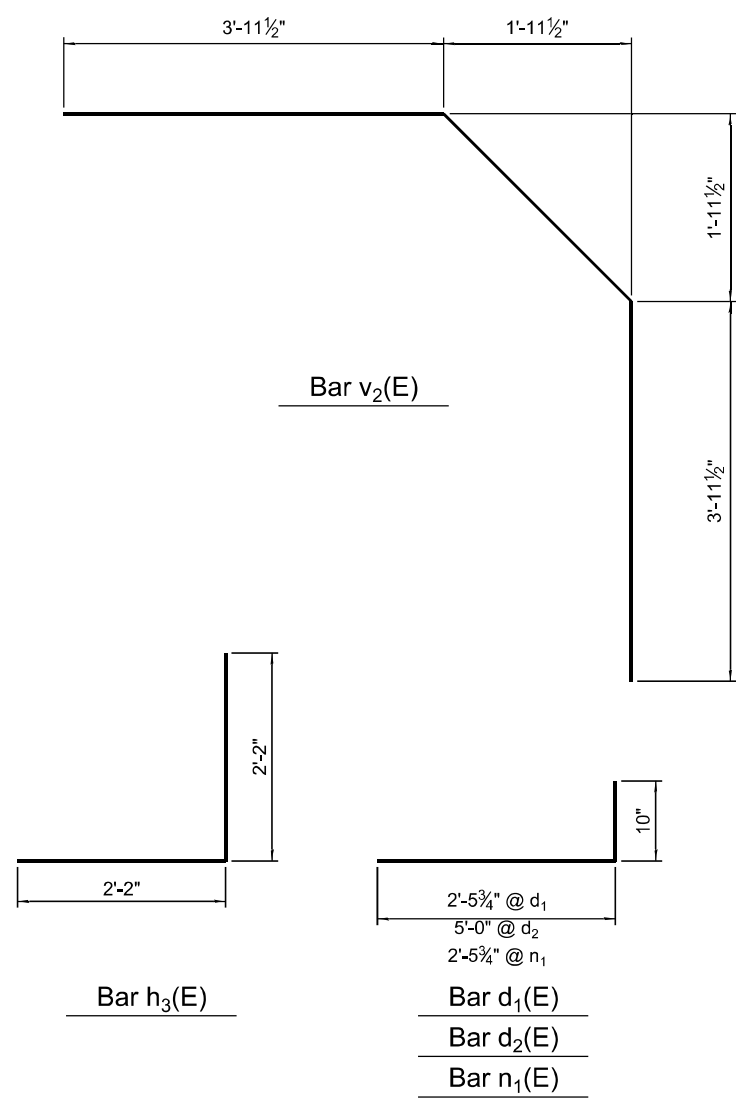


**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a <sub>1</sub> (E)	15	#6	11'-0"	—
a <sub>2</sub> (E)	2	#6	8'-8"	—
a <sub>3</sub> (E)	2	#6	8'-4"	—
b <sub>1</sub> (E)	14	#6	13'-0"	—
d <sub>1</sub> (E)	29	#5	3'-4"	J
d <sub>2</sub> (E)	22	#5	5'-10"	J
n <sub>1</sub> (E)	25	#5	3'-4"	J
h <sub>1</sub> (E)	12	#5	10'-4"	—
h <sub>2</sub> (E)	12	#5	12'-5"	—
h <sub>3</sub> (E)	24	#5	4'-4"	—
h <sub>4</sub> (E)	2	#5	16'-3"	—
h <sub>5</sub> (E)	1	#5	15'-2"	—
h <sub>6</sub> (E)	1	#5	13'-7"	—
h <sub>7</sub> (E)	1	#5	11'-10"	—
h <sub>8</sub> (E)	1	#5	10'-1"	—
l <sub>1</sub> (E)	20	#8	10'-7"	—
v <sub>1</sub> (E)	32	#5	8'-6"	—
v <sub>2</sub> (E)	4	#5	10'-8"	—
v <sub>3</sub> (E)	3	#5	10'-8"	—
v <sub>4</sub> (E)	1	#5	6'-0"	—
v <sub>5</sub> (E)	1	#5	6'-0"	—
w <sub>1</sub> (E)	13	#8	16'-2"	—
Structure Excavation		Cu. Yd.	452.60	
Concrete Structures		Cu. Yd.	19.78	
Reinforcement Bars, Epoxy Coated		Pound	2,870	



Bar h<sub>4</sub>(E)      Bar h<sub>7</sub>(E)  
 Bar h<sub>5</sub>(E)      Bar h<sub>8</sub>(E)  
 Bar h<sub>6</sub>(E)

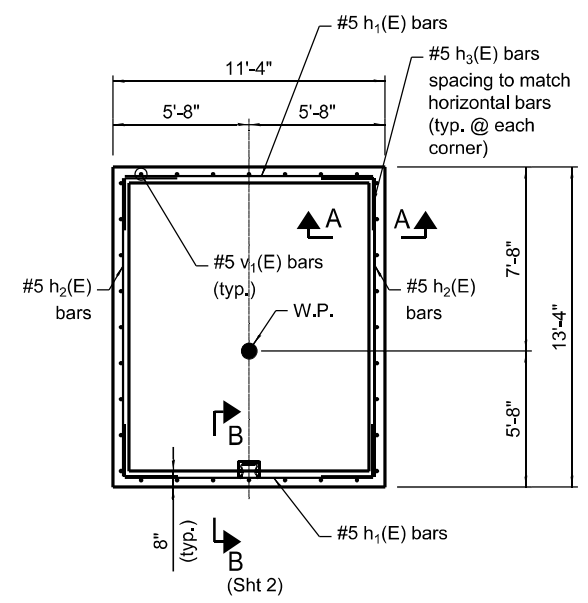


**MANHOLE #E362 - TOP SLAB REINFORCING PLAN**

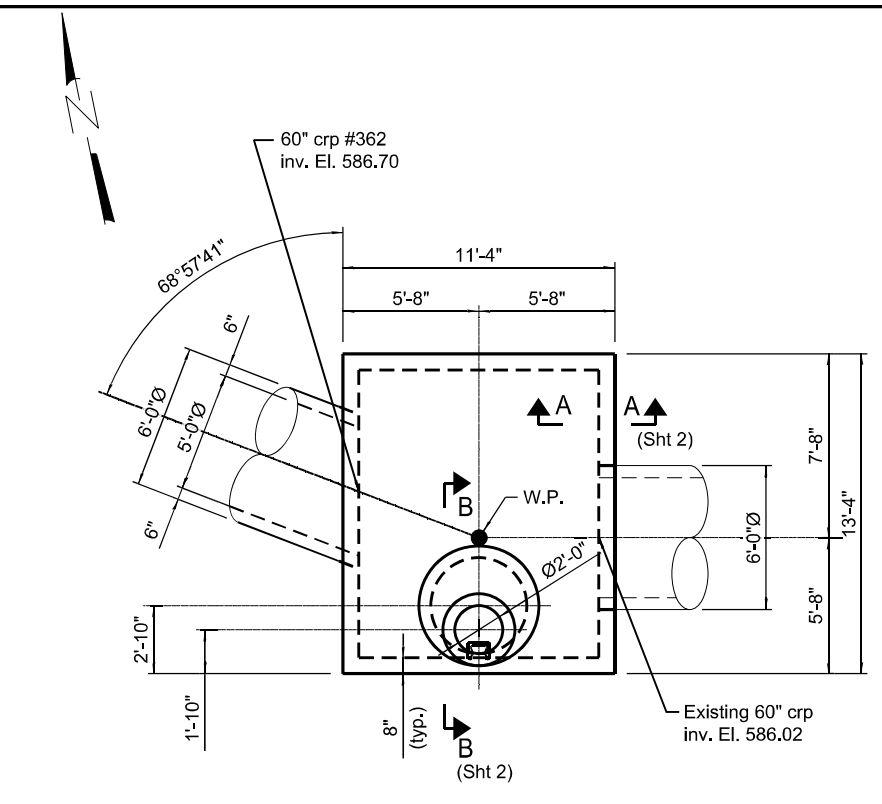
**Note A:**  
Cut reinforcing in field around openings or pipe penetrations.

**Note B:**  
Reinforcing Bars @ Top only.

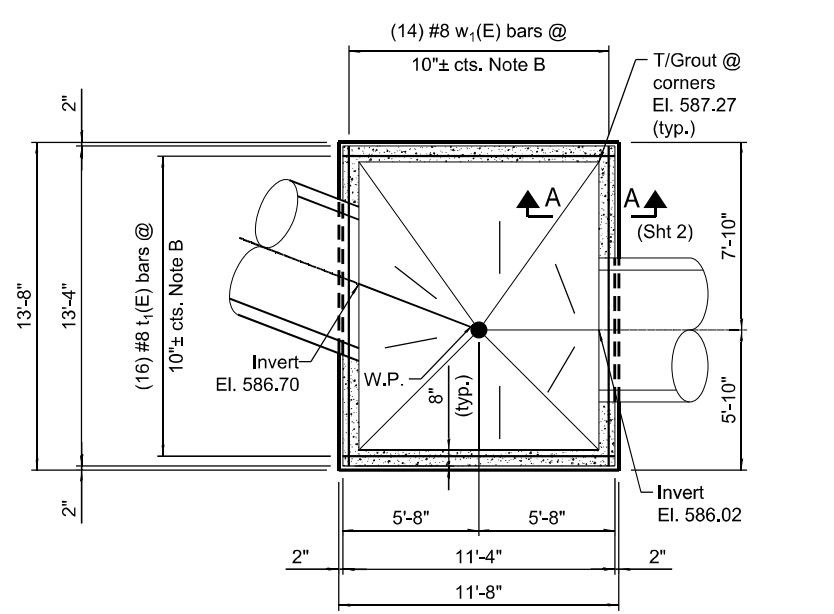
**Note C:**  
Reinforcing Bars @ Bottom only.



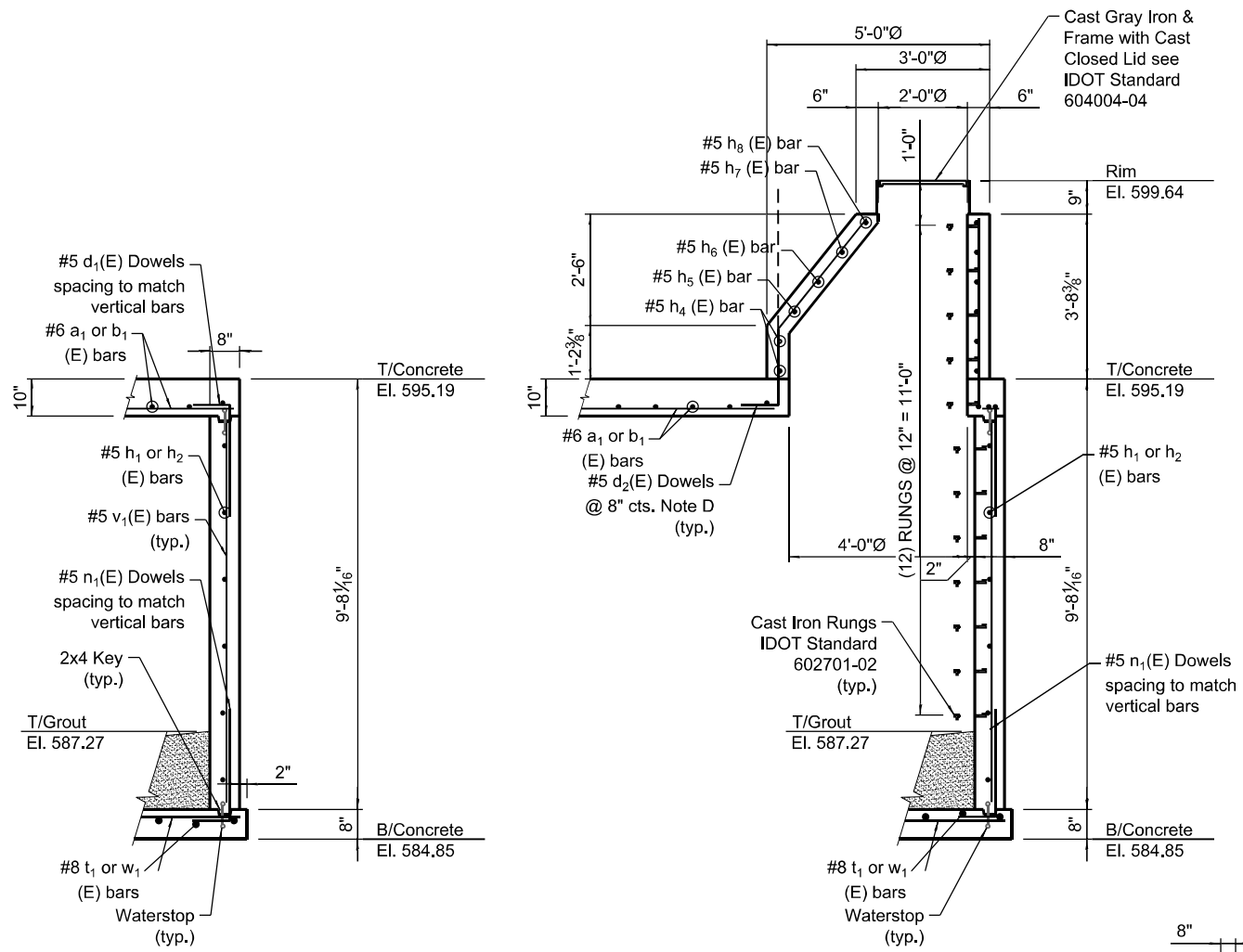
**MANHOLE #E362 - WALL REINFORCEMENT PLAN**



**MANHOLE #E362 - PLAN**

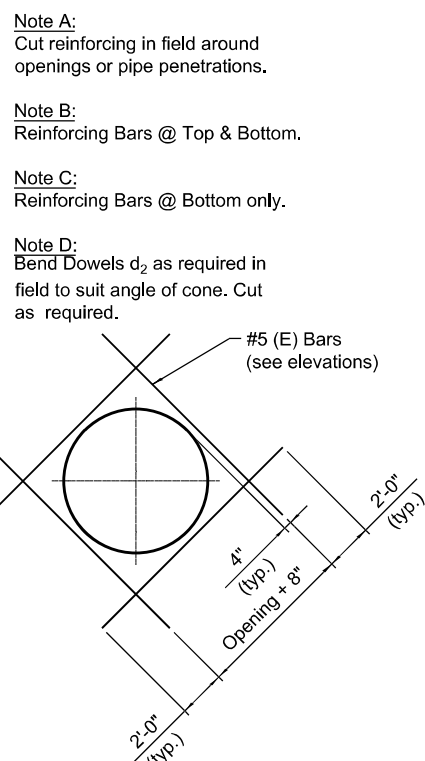


**MANHOLE #E362 - BOTTOM SLAB REINFORCEMENT PLAN**

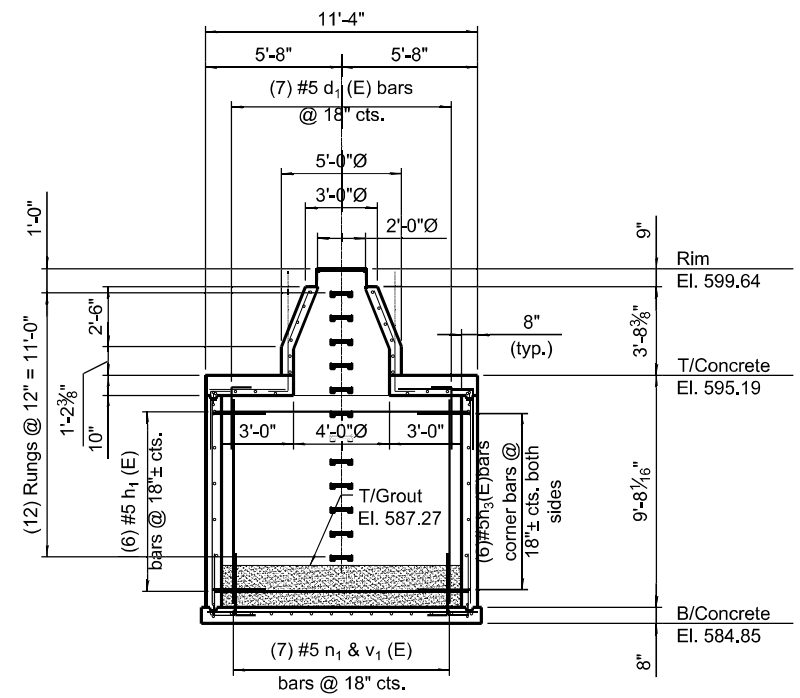


**SECTION A-A**  
Scale: 1/2" = 1'-0"

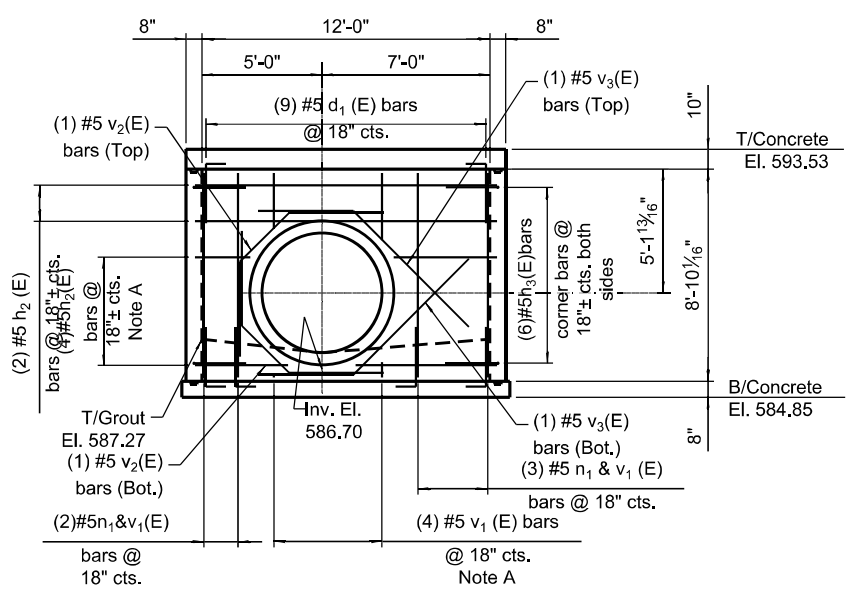
**SECTION B-B**  
Scale: 1/2" = 1'-0"



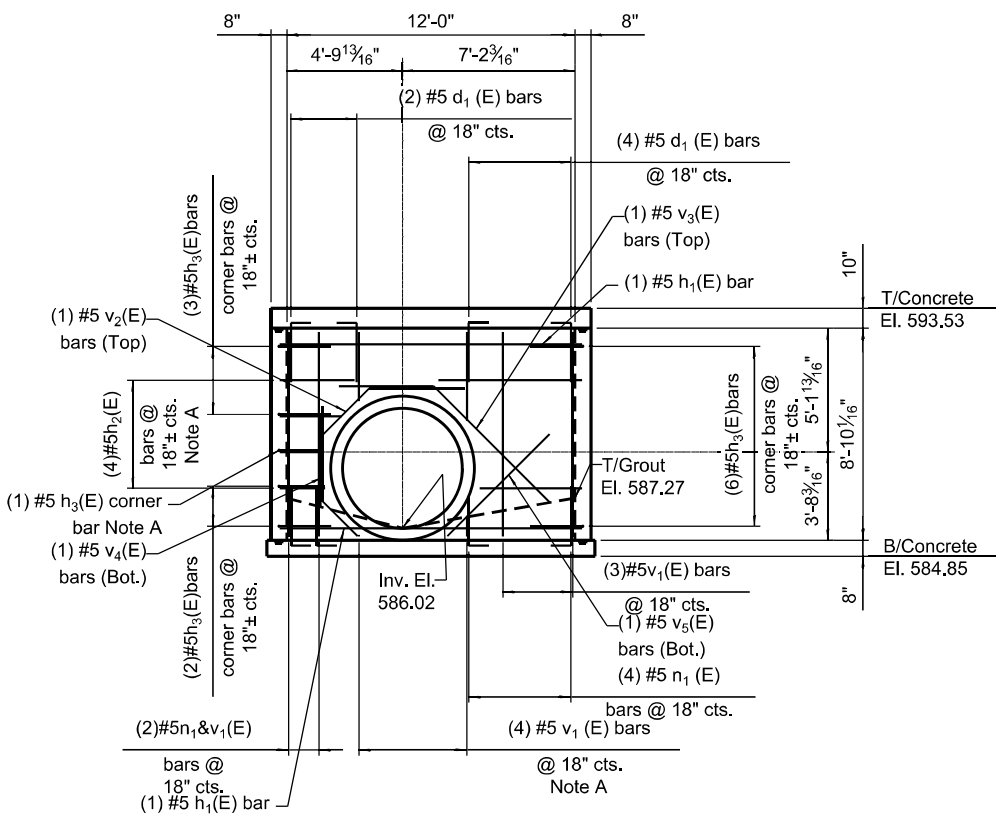
**WALL PENETRATION ADDITIONAL REINFORCING DETAIL**



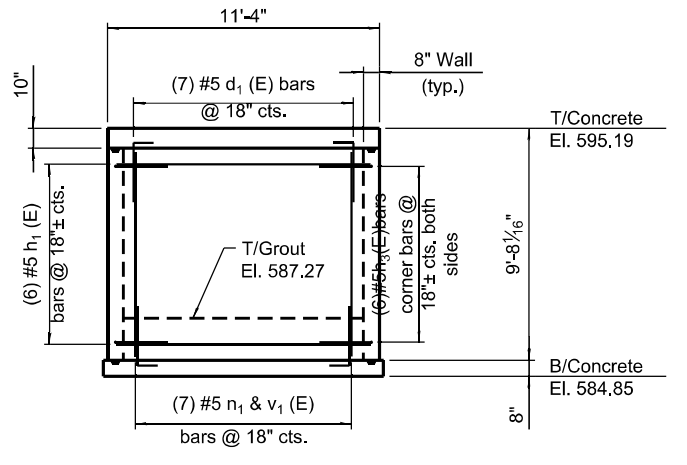
**SOUTH WALL REINFORCING ELEVATION**  
(Looking South)



**EAST WALL REINFORCING ELEVATION**  
(Looking West)



**WEST WALL REINFORCING ELEVATION**  
(Looking East)



**NORTH WALL REINFORCING ELEVATION**  
(Looking South)

DETENTION POND VOLUME - POND 'D'			
ELEVATION (FEET)	DIFFERENCE (FEET)	AREA (SF)	VOLUME (CF)
590		67,829.01	58,563.23
	1		
589		49,297.44	43,820.47
	1		
588		38,343.50	33,304.46
	1		
587		28,265.41	23,810.50
	1		
586		19,355.58	12,944.02
	1		
585		6,532.45	3,266.23
	1		
584			
TOTAL VOLUME			175,708.89

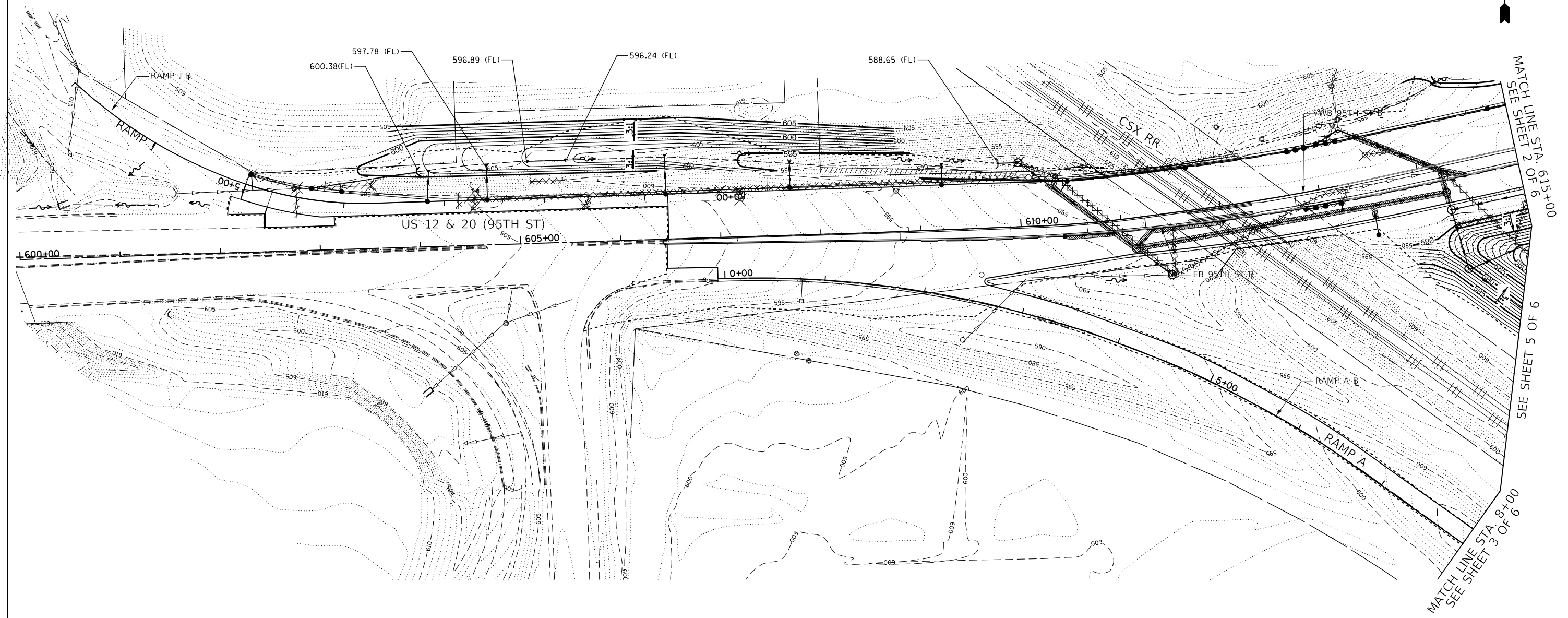
DETENTION POND VOLUME - POND 'L'			
ELEVATION (FEET)	DIFFERENCE (FEET)	AREA (SF)	VOLUME (CF)
600		51,060.62	49,005.06
	1		
599		46,949.50	44,973.10
	1		
598		42,996.70	41,098.91
	1		
597		39,201.12	34,070.93
	1		
596		28,940.73	15,413.60
	1		
595		1,886.46	943.23
	1		
594			
TOTAL VOLUME			185,504.82

DETENTION POND VOLUME - POND 'M'			
ELEVATION (FEET)	DIFFERENCE (FEET)	AREA (SF)	VOLUME (CF)
600		49,162.50	45,758.41
	1		
599		42,354.32	39,344.62
	1		
598		36,334.92	33,716.88
	1		
597		31,098.83	28,890.93
	1		
596		26,683.02	15,231.09
	1		
595		3,779.15	1,889.58
	1		
594			
TOTAL VOLUME			164,831.49

DETENTION POND VOLUME - POND 'W'			
ELEVATION (FEET)	DIFFERENCE (FEET)	AREA (SF)	VOLUME (CF)
585		74,255.70	72,389.68
	1		
584		70,523.66	68,702.04
	1		
583		66,880.41	65,101.28
	1		
582		63,322.14	61,803.05
	1		
581		60,283.96	58,566.61
	1		
580		56,849.26	55,301.45
	1		
579		53,753.64	52,145.21
	1		
578		50,536.77	49,101.37
	1		
577		47,665.97	46,370.68
	1		
576		45,075.40	43,600.86
	1		
575		42,126.31	20,714.78
	0.5		
574.5		40,732.81	
TOTAL VOLUME			593,797.00

DETENTION POND VOLUME - POND 'Q'			
ELEVATION (FEET)	DIFFERENCE (FEET)	AREA (SF)	VOLUME (CF)
600		47,311.79	45,069.40
	1		
599		42,827.00	40,934.50
	1		
598		39,041.99	37,259.43
	1		
597		35,476.87	33,813.73
	1		
596		32,150.59	23,559.77
	1		
595		14,968.85	7,484.43
	1		
594			
TOTAL VOLUME			188,121.20

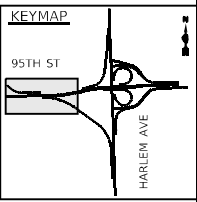
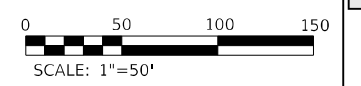
DETENTION POND VOLUME - POND 'P'			
ELEVATION (FEET)	DIFFERENCE (FEET)	AREA (SF)	VOLUME (CF)
600		52,708.00	50,437.50
	1		
599		48,167.00	46,606.83
	1		
598		45,046.65	43,588.46
	1		
597		42,130.26	35,561.47
	1		
596		28,992.68	16,527.05
	1		
595		4,061.42	2,030.71
	1		
594			
TOTAL VOLUME			194,752.01



MATCH LINE STA. 615+00  
SEE SHEET 2 OF 6

SEE SHEET 5 OF 6

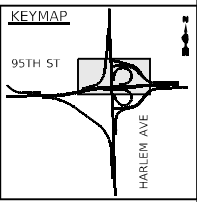
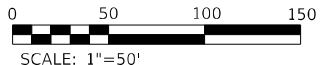
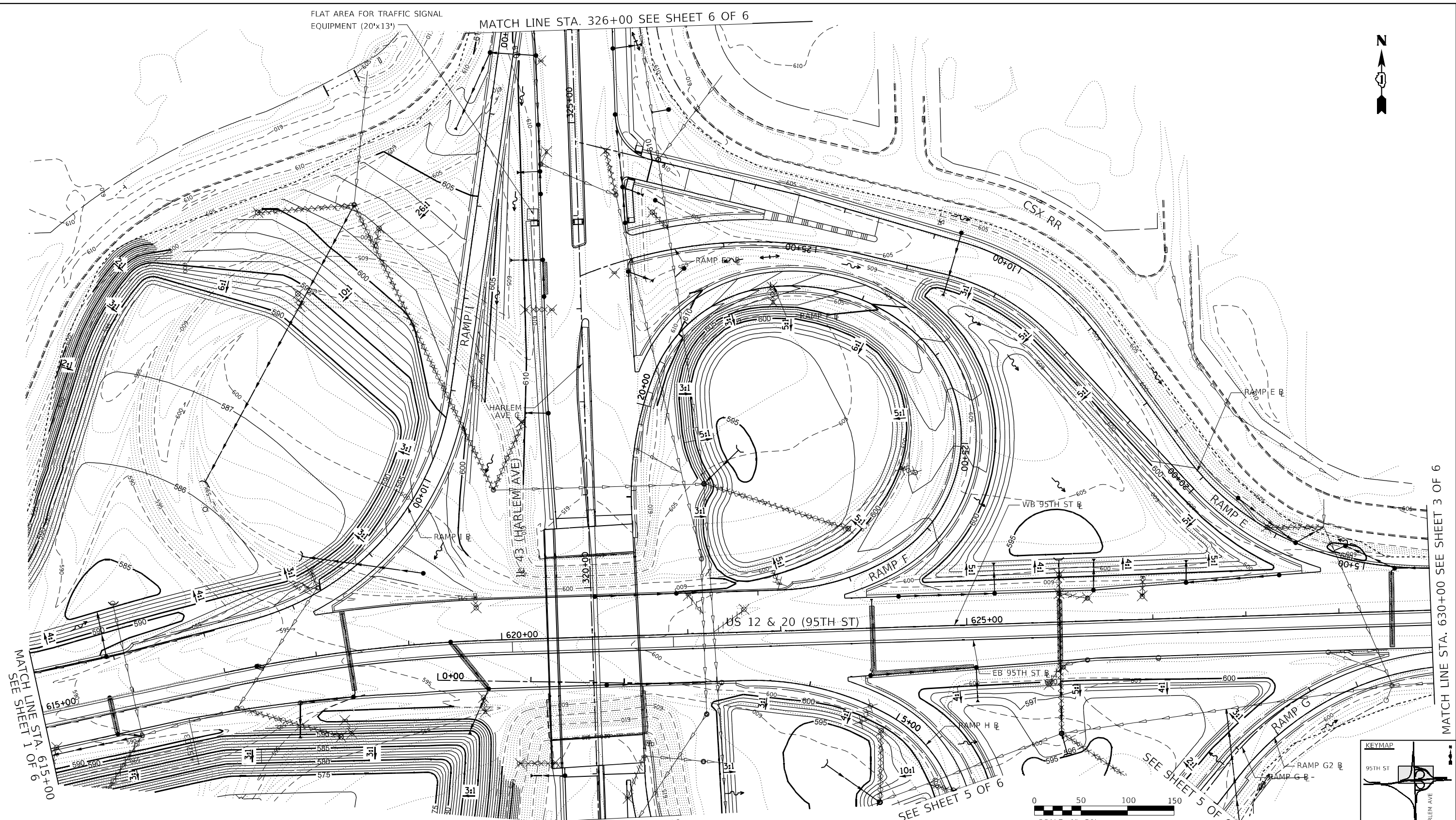
MATCH LINE STA. 8+00  
SEE SHEET 3 OF 6



FILE NAME = ...ID160R49_sht_Grad01.dgn <b>THE HOH GROUP, INC.</b> <small>ARCHITECTS   ENGINEERS</small>	USER NAME = KSUMRAK	DESIGNED - AAF	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>GRADING PLAN</b> <b>US 12 &amp; 20 (95TH STREET) - STA. 600+00 TO STA. 615+00</b>		F.A.P. RTE. 29 & 348	SECTION 3128-Z-1-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 249
	PLOT SCALE = N/A	CHECKED - BAP	REVISED -		SCALE: 1"=50'	SHEET NO. 1 OF 6 SHEETS	STA. 600+00.00 TO STA. 615+00.00	CONTRACT NO. 60R49		ILLINOIS FED. AID PROJECT	
PN: 3730	PLOT DATE = 11/30/2023	DATE -	REVISED -								

FLAT AREA FOR TRAFFIC SIGNAL  
EQUIPMENT (20'x13')

MATCH LINE STA. 326+00 SEE SHEET 6 OF 6



MATCH LINE STA. 615+00  
SEE SHEET 1 OF 6

MATCH LINE STA. 630+00 SEE SHEET 3 OF 6

MATCH LINE STA. 317+50  
SEE SHEET 5 OF 6

SEE SHEET 5 OF 6

SEE SHEET 5 OF 6

FILE NAME = ...10160R49\_sht\_Grad02.dgn  
**THE HOH GROUP, INC.**  
ARCHITECTS | ENGINEERS  
PN: 3730

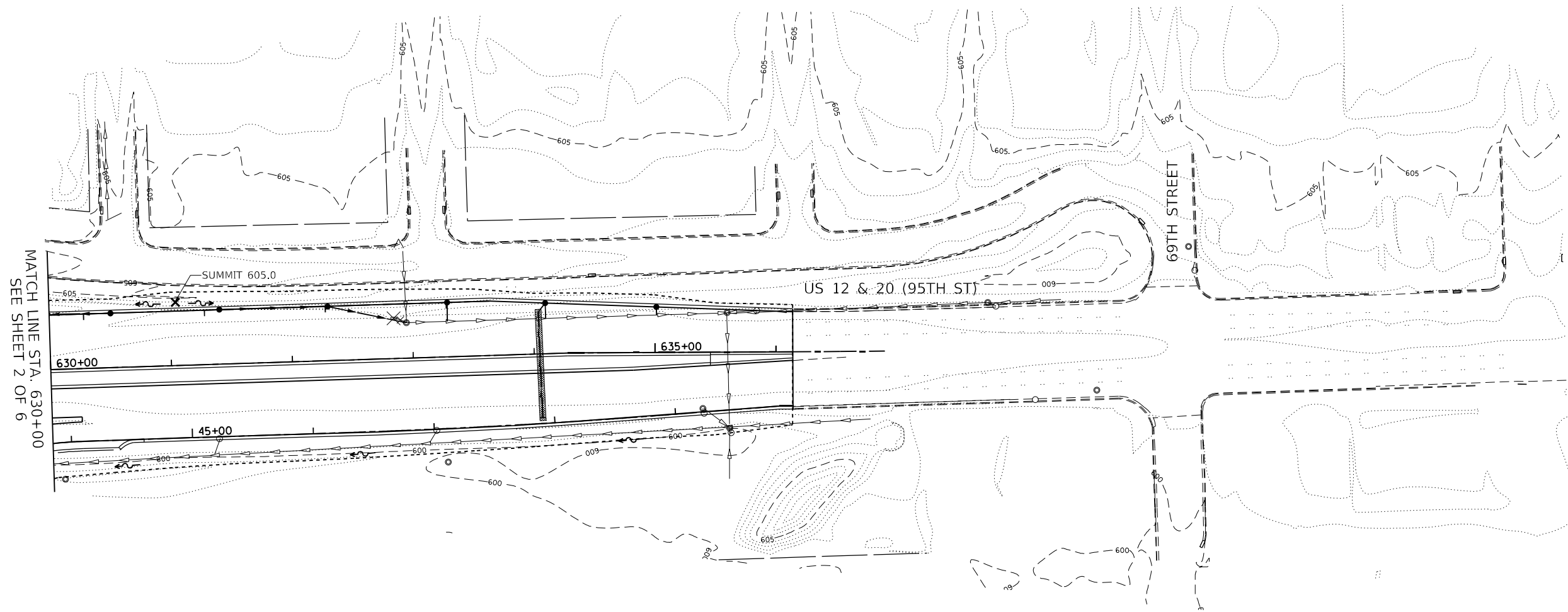
USER NAME = KSUNRAK  
DESIGNED - AAF  
DRAWN - AAF  
CHECKED - BAP  
DATE -  
PLOT SCALE = N/A  
PLOT DATE = 11/30/2023

REVISOR -  
REVISION -  
REVISION -  
REVISION -  
REVISION -

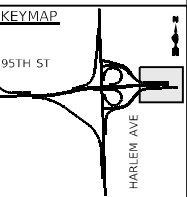
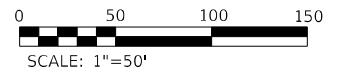
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GRADING PLAN**  
**US 12 & 20 (95TH STREET) - STA. 615+00 TO STA. 630+00**  
SCALE: 1"=50' SHEET NO. 2 OF 6 SHEETS STA. 615+00.00 TO STA. 630+00.00

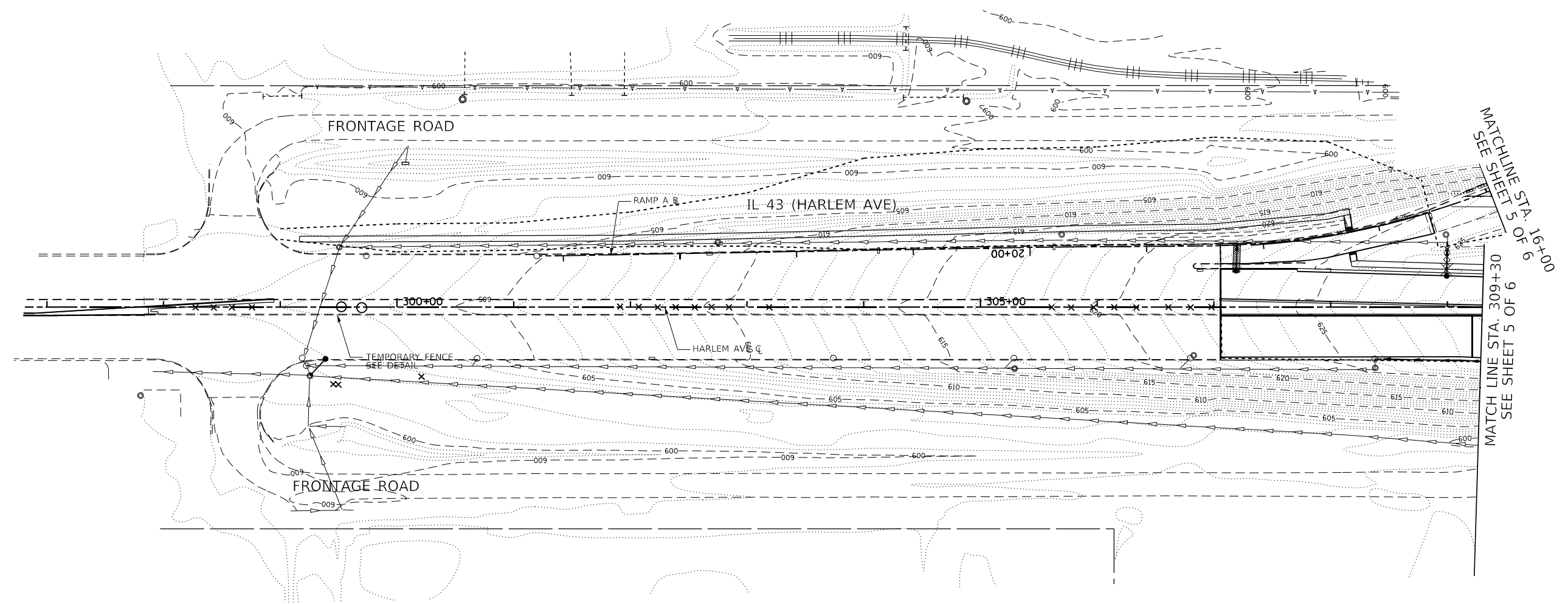
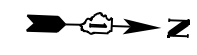
F.A.P. RTE. 29 & 348	SECTION 3128-Z1-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 250
CONTRACT NO. 60R49				ILLINOIS FED. AID PROJECT



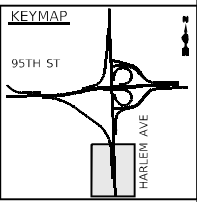
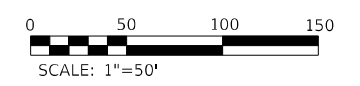
MATCH LINE STA. 630+00  
SEE SHEET 2 OF 6



FILE NAME = ...ID160R49_sht_Grad03.dgn <b>THE HOH GROUP, INC.</b> <small>ARCHITECTS   ENGINEERS</small>	USER NAME = KSUMRAK	DESIGNED - AAF	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>GRADING PLAN</b> <b>US 12 &amp; 20 (95TH STREET) - STA. 630+00 TO STA. 636+00</b>		F.A.P. RTE. 29 & 348	SECTION 3128-Z4-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 251
	PLOT SCALE = N/A	CHECKED - BAP	REVISED -		SCALE: 1"=50'	SHEET NO. 3 OF 6 SHEETS	STA. 630+00.00 TO STA. 636+00.00	CONTRACT NO. 60R49		ILLINOIS FED. AID PROJECT	
PN: 3730	PLOT DATE = 11/30/2023	DATE -	REVISED -								



MATCHLINE STA. 16+00  
 SEE SHEET 5 OF 6  
 MATCHLINE STA. 309+30  
 SEE SHEET 5 OF 6



FILE NAME = ...ID160R49_sht_Grad04.dgn <b>THE HOH GROUP, INC.</b> <small>ARCHITECTS   ENGINEERS</small>	USER NAME = KSUMRAK	DESIGNED - AAF	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>GRADING PLAN</b> <b>IL 43 (HARLEM AVENUE) - STA. 298 + 00 TO STA. 309 + 30</b>		F.A.P. RTE. 29 & 348	SECTION 3128-Z1-R&R5	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 252
	PLOT SCALE = N/A	CHECKED - BAP	REVISED -		SCALE: 1"=50'	SHEET NO. 4 OF 6 SHEETS	STA. N/A TO STA. 309+30.00	CONTRACT NO. 60R49		ILLINOIS FED. AID PROJECT	
PN: 3730	PLOT DATE = 11/30/2023	DATE -	REVISED -								

MATCH LINE STA. 317+50  
SEE SHEET 2 OF 6

SEE SHEET 2 OF 6

SEE SHEET 2 OF 6

MATCH LINE STA. 8+00  
SEE SHEET 1 OF 6

PUMP STATION TO  
BE CONSTRUCTED  
IN CONTRACT 62V28

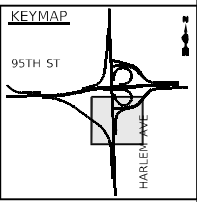
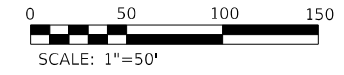
FLAT AREA FOR TRAFFIC SIGNAL  
EQUIPMENT (20'x13')

OVERFLOW WIER  
(SEE DRAINAGE DETAILS)

50'x50'  
TEMPORARY EASEMENT

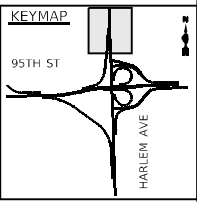
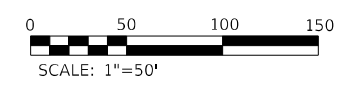
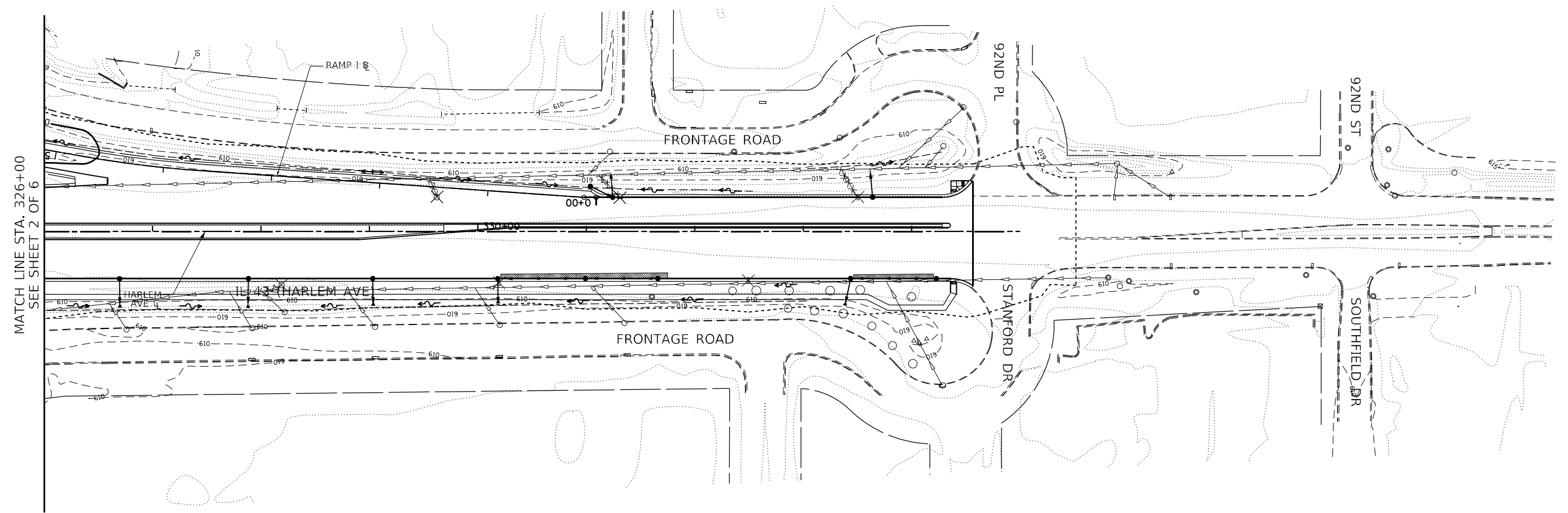
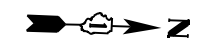
MATCH LINE STA. 16+00  
SEE SHEET 4 OF 6

MATCH LINE STA. 309+30  
SEE SHEET 4 OF 6



FILE NAME = ...1D160R49_sht_Grad05.dgn <b>THE HOH GROUP, INC.</b> ARCHITECTS   ENGINEERS PN: 3730	USER NAME = KSUMRAK	DESIGNED - AAF	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>GRADING PLAN</b> <b>IL 43 (HARLEM AVENUE) - STA. 309+30 TO STA. 317+50</b>		F.A.P. RTE. 29 & 348	SECTION 3128-Z-1-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 253
	PLOT SCALE = N/A	CHECKED - BAP	REVISED -		SCALE: 1"=50'	SHEET NO. 5 OF 6 SHEETS	STA. 309+30.00 TO STA. 317+50.00	CONTRACT NO. 60R49		ILLINOIS FED. AID PROJECT	





FILE NAME = ...ID160R49_sht_Grad06.dgn <b>THE HOH GROUP, INC.</b> <small>ARCHITECTS   ENGINEERS</small>	USER NAME = KSUMRAK	DESIGNED - AAF	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>GRADING PLAN</b> <b>IL 43 (HARLEM AVENUE) – STA. 326+00 TO STA. 335+00</b>		F.A.P. RTE. 29 & 348	SECTION 3128-Z4-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 254	
	PLOT SCALE = N/A	CHECKED - BAP	REVISED -		SCALE: 1"=50'	SHEET NO. 6 OF 6 SHEETS	STA. 326+00.00 TO STA. N/A	CONTRACT NO. 60R49		ILLINOIS FED. AID PROJECT		
PN: 3730	PLOT DATE = 11/30/2023	DATE -	REVISED -									



MODIFIED URETHANE & PREFORMED PAVEMENT MARKING SCHEDULE/ PCC PAVEMENT MARKINGS					IDOT										REMARKS		
					MODIFIED URETHANE PAVEMENT MARKING											PREFORMED	GROOVING
					LETTERS AND SYMBOLS	LINE 4"		LINE 6"				LINE 8"	LINE 12"	LINE 24"		LINE 7"	LINE 8"
						78009004		78009006									
ROADWAY	STATION TO STATION		BEGIN OFFSET	END OFFSET	78009000	(WHITE) SOLID (A)	(YELLOW) SOLID (C)	(WHITE) SOLID (D)	(WHITE) 2' DASH, 6' SKIP (E)	78009008	78009012	78009024	78003137	78011040			
	SQ FT	FOOT	FOOT	FOOT	EXACT FT.	PAY FT.	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT				
95TH WB	600+11	603+37	222' RT	48' RT		369											
95TH WB	600+00	603+15	215' RT	30' RT			361										
95TH WB	605+70	602+70	0' LT	36' LT							36			STOP BAR			
95TH WB	605+70	606+47	12' LT	12' LT								19	19				
95TH WB	605+70	606+47	24' LT	24' LT								19	19				
HARLEM AVE.	309+30	312+39	45' RT	51' RT		309											
HARLEM AVE.	309+41	309+60	31' RT	31' RT					19	5							
HARLEM AVE.	309+48	309+48	VARIES	VARIES	15.6									RIGHT TURN ARROW			
HARLEM AVE.	309+51	312+63	18.5' RT	19' RT								78	78				
HARLEM AVE.	309+59	312+72	6.5' RT	6.5' RT			313										
HARLEM AVE.	309+60	312+15	31' RT	31' RT				255									
HARLEM AVE.	309+66	312+79	0' LT	0' LT			313										
HARLEM AVE.	309+75	312+89	13' LT	14.5' LT								79	79				
HARLEM AVE.	312+40	312+41	31.5' RT	33.5' RT						2							
HARLEM AVE.	309+83	312+98	24' LT	26' LT		315											
HARLEM AVE.	311+53	311+75	VARIES	VARIES	36.4									RIGHT TURN ARROW / ONLY			
HARLEM AVE.	312+15	312+54	31' RT	32' RT						39							
HARLEM AVE.	312+15	312+51	31' RT	34' RT						36							
HARLEM AVE.	318+08	318+85	VARIES	VARIES							8						
HARLEM AVE.	312+15	312+51	VARIES	VARIES							2						
HARLEM AVE.	318+08	320+26	10.5' LT	10.5' LT				216									
HARLEM AVE.	318+08	320+65	33.5' LT	33.5' LT		257											
HARLEM AVE.	318+08	320+65	22.5' LT	22' LT								64	64				
HARLEM AVE.	318+09	320+66	6.5' RT	6.5' RT			257										
HARLEM AVE.	318+09	320+66	2.5' RT	0.4' RT			257										
HARLEM AVE.	318+09	320+66	19.5' RT	19.5' RT								64	64				
HARLEM AVE.	318+10	318+83	30.5' RT	30.5' RT							73						
HARLEM AVE.	318+10	318+83	35.3' RT	30.5' RT							73						
HARLEM AVE.	318+10	320+52	50.5' RT	46' RT		242											
HARLEM AVE.	318+19	318+19	VARIES	VARIES	20.8									ONLY			
HARLEM AVE.	318+83	320+67	30.5' RT	31.5' RT								46	46				
HARLEM AVE.	319+74	319+97	VARIES	VARIES	36.4									LEFT TURN ARROW / ONLY			
HARLEM AVE.	320+26	320+65	10.5' LT	10.5' LT					39	10							
COLUMN TOTAL					109.2	1492.0	1501.0	471.0		15.0	221.0	12.0	36.0	369.0	369.0		
PAY ITEM TOTAL					109	--	2,993	--	--	486	221	12	36	369	369		

NOTES: REFER TO 'THERMOPLASTIC PAVEMENT MARKINGS SCHEDULE' FOR ADDITIONAL RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)

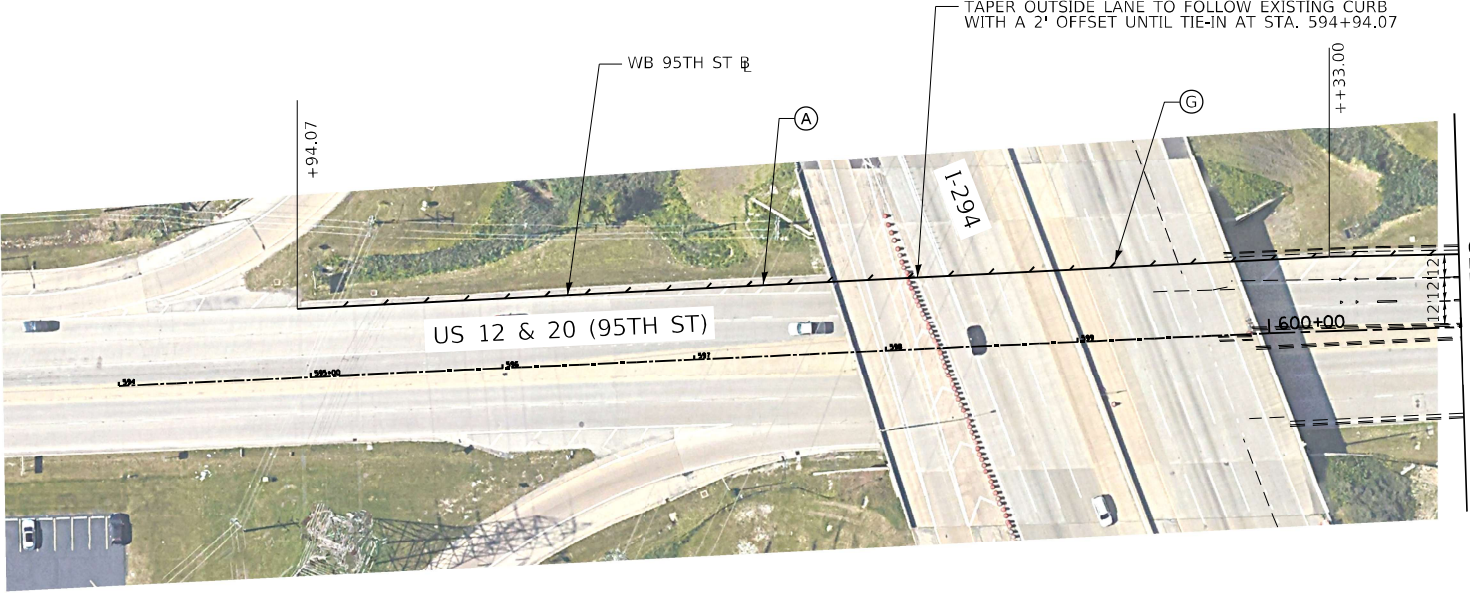
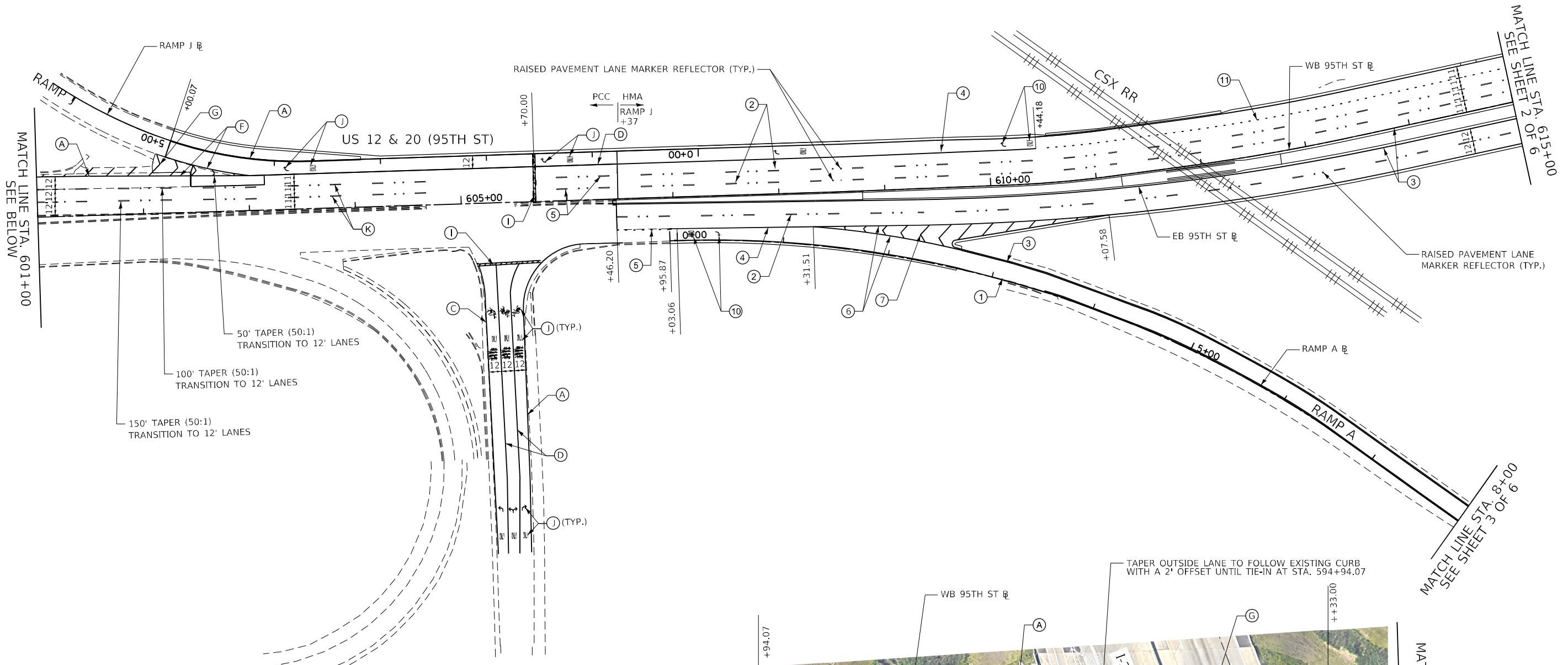
PAVEMENT MARKING REMOVALS SCHEDULE					IDOT		REMARKS
STAGE	ROADWAY	STATION TO STATION		LOCATION	PAVEMENT MARKING REMOVAL - GRINDING	PAVEMENT MARKING REMOVAL - WATER BLASTING	
		78300201	78300202				
N/A	HARLEM AVE.	307+05.74	334+56.82	VARIES	2,751	2,751	
PAY ITEM TOTAL					2,751	2,751	

THERMOPLASTIC PAVEMENT MARKINGS SCHEDULE / HMA PAVEMENT MARKINGS					IDOT THERMOPLASTIC PAVEMENT MARKING														RAISED REFLECTIVE PAVEMENT MARKER	REMARKS	
					LETTERS AND SYMBOLS	LINE 4"				LINE 6"				LINE 8"				LINE 12"			LINE 24"
						78000200				78000400				78000500							
						(WHITE) SOLID	(WHITE) 10' DASH, 30' SKIP	(YELLOW) SOLID		(WHITE) SOLID	(WHITE) 2' DASH, 6' SKIP	(WHITE) 3' DASH, 9' SKIP		(WHITE) SOLID	(WHITE) 3' DASH, 9' SKIP						
78000100 SQ FT	FOOT	EXACT FT.	PAY FT.	FOOT	EXACT FT.	PAY FT.	EXACT FT.	PAY FT.	FOOT	EXACT FT.	PAY FT.	78000600 FOOT	78000650 FOOT	78100100 EACH							
ROADWAY	STATION TO STATION	BEGIN OFFSET	END OFFSET																		
95TH WB	601+28	603+16	26' LT	30' LT																	
95TH WB	606+16	609+42	34.4' LT	48' LT														GORE CHANNELIZING			
95TH WB	606+16	609+42	34.4' LT	35' LT														GORE CHANNELIZING			
95TH WB	606+16	609+42	VARIES	VARIES											92			GORE CHEVRONS			
95TH WB	606+47	636+14	0' RT	0' RT																	
95TH WB	606+47	636+14	5' RT	7' RT																	
95TH WB	606+47	636+14	12' LT	11' LT														75			
95TH WB	606+47	636+14	24' LT	22' LT														75			
95TH WB	606+47	636+14	17' RT	19' RT														75			
95TH WB	606+96	607+03	30' RT	30' RT																	
95TH WB	607+03	608+32	30' RT	32.0305' RT																	
95TH WB	608+32	611+08	32' RT	36' RT																	
95TH WB	608+32	609+70	32' RT	59.6' RT																	
95TH WB	608+32	611+08	VARIES	VARIES																	
95TH WB	608+75	608+99	VARIES	VARIES	36.4																
95TH WB	609+42	610+45	34.4' LT	33' LT																	
95TH WB	610+15	610+39	VARIES	VARIES	36.4																
95TH WB	610+44	617+26	33' LT	33' LT																	
95TH EB	616+52	622+54	40' RT	40' RT																	
95TH WB	617+26	620+49	33' LT	44' LT																	
95TH WB	617+26	618+03	33' LT	49' LT																	
95TH WB	617+26	620+50	33' LT	33' LT																	
95TH WB	617+26	620+49	VARIES	VARIES																	
95TH WB	620+49	623+14	33' LT	33' LT																	
95TH EB	622+60	626+38	40' RT	40' RT																	
95TH EB	622+60	623+70	40' RT	57' RT																	
95TH EB	622+60	626+38	VARIES	VARIES																	
95TH WB	623+14	623+93	33' LT	33' LT																	
95TH WB	623+14	623+70	33' LT	40.2 LT																	
95TH WB	623+14	623+93	VARIES	VARIES																	
95TH WB	626+37	629+81	33' LT	33' LT																	
95TH WB	626+37	629+81	VARIES	VARIES																	
95TH WB	628+66	629+81	56.2' LT	33' LT																	
95TH WB	629+05	630+25	40' RT	40' RT																	
95TH WB	629+81	633+65	33' LT	33' LT																	
95TH WB	630+10	630+37	VARIES	VARIES	36.4																
95TH WB	630+25	631+29	39' RT	39' RT																	
95TH WB	630+25	631+29	44.9' RT	39' RT																	
95TH WB	630+25	631+29	VARIES	VARIES																	
95TH WB	631+29	636+14	36.5' RT	31' RT																	
95TH WB	633+28	633+51	VARIES	VARIES	36.4																
95TH WB	633+65	636+14	33' LT	33' LT																	
HARLEM AVE.	298+24	298+97	61.1' LT	72.1 LT																	
HARLEM AVE.	307+06	309+41	28.6' RT	30.6' RT																	
HARLEM AVE.	307+06	309+59	7.5' RT	7.5' RT																	
HARLEM AVE.	307+06	309+66	1' LT	7.5' LT																	
HARLEM AVE.	307+06	309+51	16.5' RT	18.5' RT																	
HARLEM AVE.	307+06	309+75	21' LT	13' LT																	
HARLEM AVE.	307+12	307+34	VARIES	VARIES	36.4																
HARLEM AVE.	309+26	309+26	VARIES	VARIES	36.4																
HARLEM AVE.	312+51	313+27	34.7' RT	48.3' RT																	
HARLEM AVE.	312+54	315+05	31.5' RT	31.5' RT																	
HARLEM AVE.	312+51	315+05	VARIES	VARIES																	
HARLEM AVE.	312+63	315+03	19' RT	19' RT																	
HARLEM AVE.	312+72	315+32	7.5' RT	10.5' LT																	
HARLEM AVE.	312+79	315+36	2' LT	10.5' LT																	
HARLEM AVE.	312+89	318+09	14.5' LT	22.5' LT																	
HARLEM AVE.	315+05	315+05	8.5' RT	32.5' RT																	
HARLEM AVE.	316+00	318+09	1.5' RT	4.5' RT																	
HARLEM AVE.	316+00	318+09	4.5' RT	7.5' RT																	
HARLEM AVE.	316+03	316+03	1.5' RT	10.5' LT																	
HARLEM AVE.	316+03	318+09	19.5' RT	19.5' RT																	
HARLEM AVE.	316+04	318+08	10.5' LT	10.5' LT																	
HARLEM AVE.	316+16	316+39	VARIES	VARIES	36.4																
HARLEM AVE.	317+36	318+10	31' RT	31' RT																	
HARLEM AVE.	317+36	318+10	VARIES	VARIES																	
HARLEM AVE.	317+42	318+10	43.1' RT	35.3' RT																	
HARLEM AVE.	317+45	318+10	57' RT	50' RT																	
HARLEM AVE.	317+96	317+96	VARIES	VARIES	36.4																

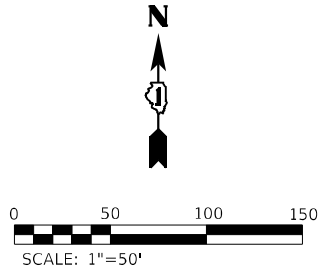
CONTINUE ONTO NEXT SHEET

THERMOPLASTIC PAVEMENT MARKINGS SCHEDULE / HMA PAVEMENT MARKINGS					IDOT THERMOPLASTIC PAVEMENT MARKING													RAISED REFLECTIVE PAVEMENT MARKER	REMARKS										
					LETTERS AND SYMBOLS	LINE 4"				LINE 6"				LINE 8"						LINE 12"	LINE 24"								
						78000200				78000400				78000500															
						(WHITE) SOLID	(WHITE) 10' DASH, 30' SKIP	(YELLOW) SOLID		(WHITE) SOLID	(WHITE) 2' DASH, 6' SKIP	(WHITE) 3' DASH, 9' SKIP		(WHITE) SOLID	(WHITE) 3' DASH, 9' SKIP														
78000100 SQ FT	FOOT	EXACT FT.	PAY FT.	FOOT	EXACT FT.	PAY FT.	EXACT FT.	PAY FT.	FOOT	EXACT FT.	PAY FT.	FOOT	EXACT FT.	PAY FT.	78000600 FOOT	78000650 FOOT	78100100 EACH												
ROADWAY	STATION TO STATION	BEGIN OFFSET	END OFFSET																										
CONTINUE ONTO PREVIOUS SHEET																													
HARLEM AVE.	320+65	322+00	9.5' LT	7.5' LT						135	34								SB LEFT LANE DASH LINE										
HARLEM AVE.	320+65	328+69	33.5' LT	31.5' LT									980						LEFT GORE CHANNELIZING										
HARLEM AVE.	320+65	328+69	VARIES	VARIES											431				LEFT GORE CHEVRONS ONLY										
HARLEM AVE.	320+65	322+87	22' LT	19.5' LT			220	55										6	SB MIDDLE LANE										
HARLEM AVE.	320+66	322+84	19.5' RT	19.5' RT			218	55										6	NB MIDDLE LANE LINE (CLOSEST TO MED).										
HARLEM AVE.	320+66	322+84	31.5' RT	31.5' RT			218	55										6	NB MIDDLE LANE LINE (2ND CLOSEST TO MED).										
HARLEM AVE.	320+67	321+95	46' RT	63' RT		128													NB EDGE LINE UP TO STA. 20+00										
HARLEM AVE.	320+82	321+82	45.8' RT	43.5' RT										184	100	25			NB EDGE DASH ACROSS RAMP F										
HARLEM AVE.	321+82	323+52	43.5' RT	54.0' RT										51					GORE CHANNELIZING										
HARLEM AVE.	321+82	322+28	43.5' RT	60.7' RT														112	GORE CHANNELIZING										
HARLEM AVE.	321+65	328+80	VARIES	VARIES															GORE CHEVRONS										
HARLEM AVE.	322+85	322+85	7.5' RT	43.5' RT														36	STOP BAR										
HARLEM AVE.	322+87	323+65	19.5' RT	59.3' RT						120	30								TURNING CURVE WB TO SB										
HARLEM AVE.	323+65	324+40	50.3' RT	53.3' RT									87						RT. LANE CHANNELIZING										
HARLEM AVE.	323+65	324+40	VARIES	VARIES															RT. SHOULDER DIAGONAL										
HARLEM AVE.	323+69	334+35	19.5' LT	19.5' LT			1,065	266										27	SB MIDDLE LANE LINE										
HARLEM AVE.	323+72	324+37	19.5' RT	19.5' RT			43	13										2	NB MIDDLE LANE LINE (CLOSEST TO MED).										
HARLEM AVE.	323+72	324+37	31.5' RT	31.5' RT			36	13										1	NB MIDDLE LANE LINE (2ND CLOSEST TO MED).										
HARLEM AVE.	323+90	323+96	8.0' LT	39.0' LT											66				SB CROSSWALK ACROSS HARLEM										
HARLEM AVE.	323+90	323+96	9.0' RT	49.0' RT											84				NB CROSSWALK ACROSS HARLEM										
HARLEM AVE.	324+01	324+01	7.5' LT	31.5' LT															STOP BAR ACROSS SB LANE										
HARLEM AVE.	324+52	325+01	54.5' RT	19.5' RT						64	16								TURNING LANE CURVE										
HARLEM AVE.	325+01	334+23	19.5' RT	19.5' RT			931	233										24	NB MIDDLE LANE LINE (CLOSEST TO MED).										
HARLEM AVE.	325+01	326+38	31.5' RT	31.5' RT			443	111										12	NB MIDDLE LANE LINE (2ND CLOSEST TO MED).										
HARLEM AVE.	326+38	329+38	31.5' RT	31.5' RT						300	75							0	NB RIGHT TURNING LANE LINE										
HARLEM AVE.	326+59	328+69	50.5' LT	31.5' LT										210					RAMP I GORE CHANNELIZING										
HARLEM AVE.	328+69	330+98	31.5' LT	31.5' LT						229	57								RAMP I & HARLEM DASH										
HARLEM AVE.	328+91	330+34	7.5' RT	7.5' RT						143	36								NB LEFT TURN LANE DASH										
HARLEM AVE.	329+38	334+33	31.5' RT	31.5' RT						495									NB RIGHT TURNING LANE LINE										
HARLEM AVE.	329+53	329+76	VARIES	VARIES	36.4														RIGHT TURN ARROW / ONLY										
HARLEM AVE.	330+34	334+33	7.5' RT	7.5' RT						399									NB LEFT TURN LANE SOLID										
HARLEM AVE.	330+48	330+72	VARIES	VARIES	36.4														LEFT TURN ARROW / ONLY										
HARLEM AVE.	331+00	331+24	VARIES	VARIES	36.4														RIGHT TURN ARROW / ONLY										
HARLEM AVE.	332+26	332+48	VARIES	VARIES	36.4														LEFT TURN ARROW / ONLY										
HARLEM AVE.	332+50	332+74	VARIES	VARIES	36.4														RIGHT TURN ARROW / ONLY										
HARLEM AVE.	334+00	334+24	VARIES	VARIES	36.4														RIGHT TURN ARROW / ONLY										
HARLEM AVE.	334+00	334+24	VARIES	VARIES	36.4														LEFT TURN ARROW / ONLY										
HARLEM AVE.	334+35	334+35	4' LT	43' RT														47	NB STOP BAR										
HARLEM AVE.	334+36	334+42	31.3' LT	41.7' RT											150				CROSSWALK ACROSS HARLEM AVE										
HARLEM AVE.	334+52	335+18	41.2' LT	41.2' LT						67									CROSSWALK ACROSS 92ND PL										
HARLEM AVE.	334+56	335+10	47.3' LT	48.0' LT						55									CROSSWALK ACROSS 92ND PL										
HARLEM AVE.	334+60	334+85	53.9' LT	52.7' LT						27									STOP BAR ACROSS EB 92ND PL										
HARLEM AVE.	334+74	334+74	53.8' LT	87.6' LT						34									LEFT TURN, RIGHT LINE										
HARLEM AVE.	334+81	334+81	71.9' LT	71.9' LT	15.6														LEFT TURN ARROW EB TO NB										
HARLEM AVE.	334+85	334+85	53.7' LT	87.5' LT						34									LEFT TURN, LEFT LINE										
HARLEM AVE.	334+87	335+11	49.9' RT	50.1' RT															STOP BAR ACROSS WB 92ND PL										
HARLEM AVE.	334+87	334+87	50.9' RT	91.9' RT															LEFT TURN, LEFT LINE										
HARLEM AVE.	334+91	334+91	72.5' RT	72.5' RT	15.6														LEFT TURN ARROW WB TO SB										
HARLEM AVE.	334+97	334+98	51.0' RT	92.0' RT															LEFT TURN, RIGHT LINE										
RAMP A	0+00	1+27	11' LT	17' RT						128	32																		
RAMP A	0+00	17+23	0' LT	0' LT						1,723																			
RAMP A	0+13	0+38	VARIES	VARIES	36.4														RIGHT TURN ARROW / ONLY										
RAMP A	2+66	17+23	17' LT	17' LT																									
RAMP A	17+29	18+37	17' LT	17' LT						108																			
RAMP A	17+29	18+37	0' LT	0' LT																									
RAMP A	17+26	17+32	0' LT	18' RT											60														
RAMP E	5+60	6+98	16' LT	16' LT															LT. ED. LINE TILL RAMP E2										
RAMP E	5+60	14+38	0' RT	4.2' RT						878									RIGHT WHITEEDGE LINE										
RAMP E	8+50	11+60	15.6 LT	19.5' LT										299					LT GORE LINE										
RAMP E	8+50	11+60	VARIES	VARIES															CHEVRONS IN PAINTED GORE										
RAMP E	11+60	14+38	20' LT	24' LT															LT EDGE LINE FROM PAINTED GORE TO HARLEM										
RAMP E	12+48	14+37	12' LT	12' LT						189									MIDDLE LANE LINE										
RAMP E	14+04	14+24	VARIES	VARIES	36.4														RIGHT TURN ONLY										
RAMP E	14+04	14+24	VARIES	VARIES	36.4														RIGHT TURN ONLY										
RAMP E	14+24	14+24	1' LT	23.5' LT															STOP BAR										
RAMP E	14+28	14+35	23.3' LT	1.7' RT											60				CROSS WALK										
CONTINUE ONTO NEXT SHEET																													

THERMOPLASTIC PAVEMENT MARKINGS SCHEDULE / HMA PAVEMENT MARKINGS					IDOT THERMOPLASTIC PAVEMENT MARKING													REMARKS		
					LETTERS AND SYMBOLS	LINE 4"				LINE 6"				LINE 8"			LINE 12"		LINE 24"	RAISED REFLECTIVE PAVEMENT MARKER
						78000200				78000400				78000500						
						(WHITE) SOLID	(WHITE) 10' DASH, 30' SKIP	(YELLOW) SOLID		(WHITE) SOLID	(WHITE) 2' DASH, 6' SKIP	(WHITE) 3' DASH, 9' SKIP		(WHITE) SOLID	(WHITE) 3' DASH, 9' SKIP					
78000100 SQ FT	FOOT	EXACT FT.	PAY FT.	FOOT	FOOT	EXACT FT.	PAY FT.	EXACT FT.	PAY FT.	FOOT	EXACT FT.	PAY FT.	FOOT	FOOT	EACH					
ROADWAY	STATION TO STATION	BEGIN OFFSET	END OFFSET																	
CONTINUE ONTO PREVIOUS SHEET																				
RAMP E2	20+00	26+94	0' LT	0' LT					694											
RAMP E2	24+41	26+94	16' RT	24' RT		261														
RAMP E2	25+82	26+94	12' RT	12' RT						113										
RAMP E2	26+65	26+85	VARIABLE	VARIABLE		36.4														
RAMP E2	26+65	26+85	VARIABLE	VARIABLE		36.4														
RAMP E2	26+94	26+94	0' RT	24' RT										22						
RAMP F	18+56	27+76	0' LT	0' LT		939														
RAMP F	20+32	27+20	12' LT	12' LT					749											
RAMP G	20+30	29+06	32.5' LT	0' LT					867											
RAMP G	20+32	22+89	0' LT	0' LT		263														
RAMP G2	32+25	44+60	0' LT	0' LT		1,225														
RAMP G2	33+24	35+68	17' LT	17' LT					244											
RAMP G2	36+37	40+84	18' LT	12' LT		403														
RAMP G2	42+60	43+96	16' LT	16' LT					136											
RAMP H	4+37	11+99	0' LT	0' LT		874														
RAMP H	3+45	11+88	16' LT	16' LT					815											
RAMP I	0+00	13+90	0' LT	0' LT		1,390														
RAMP I	4+49	11+83	16' LT	16' LT					750											
PUMP DRIVE	10+40	10+40	19' LT	15' RT					35											
PUMP DRIVE	10+46	10+46	15' LT	11' RT					25											
PUMP DRIVE	10+37	13+39	18' RT	8' LT		302														
PUMP DRIVE	10+37	13+39	18' LT	8' RT		302														
LEFT TURN LN	293+73	296+89	8' LT	8' LT		315														
LEFT TURN LN	293+73	298+95	4' RT	8' LT					522											
LEFT TURN LN	294+65	294+85	VARIABLE	VARIABLE		36.4														
LEFT TURN LN	296+89	298+89	8' LT	8' LT					200	50										
COLUMN TOTAL					795.6	9484.5	3519.5	14157.8	2727.2	458.0	394.3	4777.3	25.0	1961.2	212.1	360.0				
PAY ITEM TOTAL					796	--	--	27,162	--	--	--	3,579	--	--	4,802	1,961	212	360		
NOTES: REFER TO 'POLYUREA PAVEMENT MARKING SCHEDULE' FOR ADDITIONAL RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)																				



NOTE:  
 THERMOPLASTIC PAVEMENT MARKINGS SHALL BE USED ON PAVEMENT WITH A HMA SURFACE. MODIFIED URETHANE PAVEMENT MARKINGS SHALL BE USED ON PCC PAVEMENTS AND PCC BRIDGE DECKS. PREFORMED PAVEMENT MARKINGS TYPE D AND GROOVING FOR RECESSED PAVEMENT MARKINGS SHALL BE USED FOR ALL LANE LINE PAVEMENT MARKINGS WITHIN BRIDGE LIMITS AND PCC PAVEMENTS.



**PAVEMENT MARKING LEGEND**

- |   |   |   |  |
|---|---|---|--|
| ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) - SOLID              | ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE) - SOLID           | Ⓐ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE) - SOLID              | Ⓒ MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (WHITE) - SOLID                                      |
| ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) - 10' DASH, 30' SKIP | ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW) - SOLID          | Ⓑ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE) - 10' DASH, 30' SKIP | Ⓓ MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (YELLOW) - SOLID                                     |
| ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW) - SOLID             | ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE) - SOLID           | Ⓒ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW) - SOLID             | Ⓙ MODIFIED URETHANE PAVEMENT MARKING - LINE 24" (WHITE) - SOLID                                      |
| ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) - SOLID              | ⑩ THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE)          | Ⓓ MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE) - SOLID              | Ⓚ MODIFIED URETHANE PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE)                                     |
| ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) - 2' DASH, 6' SKIP   | ⑪ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) - 3' DASH, 9' SKIP | Ⓔ MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE) - 2' DASH, 6' SKIP   | Ⓛ PREFORMED PAVEMENT MARKING LINE 7" (1.5" BLACK, 4" WHITE, 1.5" BLACK) 10' DASH, 30' SKIP (GROOVED) |
| ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE) - SOLID              | ⑫ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE) - 3' DASH, 9' SKIP | Ⓕ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" (WHITE) - SOLID              |  |
|   | ⑬ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) - 2' DASH, 6' SKIP |   |  |

FILE NAME = ...1D160R49\_sht\_Pmk01.dgn  
**THE HOH GROUP, INC.**  
 ARCHITECTS | ENGINEERS

USER NAME = KSUNRAK  
 PLOT SCALE = N/A  
 PLOT DATE = 11/30/2023

DESIGNED - AAF  
 DRAWN - AAF  
 CHECKED - BAP  
 DATE -

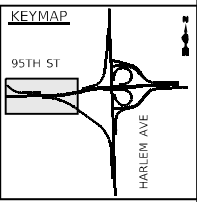
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

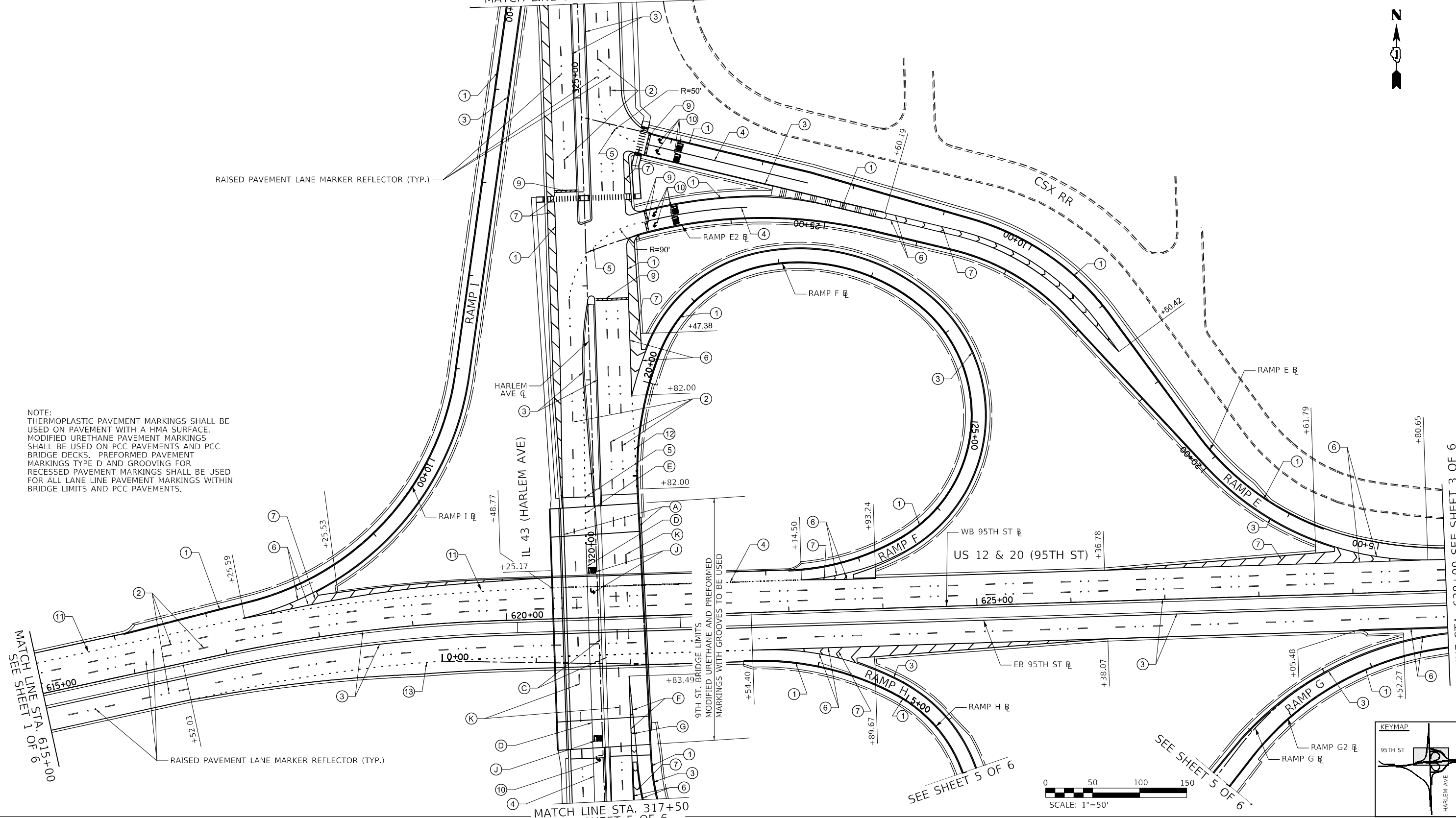
**PAVEMENT MARKING PLAN**  
**US 12 & 20 (95TH STREET) - STA. 600+00 TO STA. 615+00**

SCALE: 1"=50' SHEET NO. 1 OF 6 SHEETS STA. 600+00.00 TO STA. 615+00.00

F.A.P. RTE. 29 & 348	SECTION 3128-Z1-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 260
CONTRACT NO. 60R49			ILLINOIS FED. AID PROJECT	



MATCH LINE STA. 326+00 SEE SHEET 6 OF 6



NOTE:  
 THERMOPLASTIC PAVEMENT MARKINGS SHALL BE USED ON PAVEMENT WITH A HMA SURFACE.  
 MODIFIED URETHANE PAVEMENT MARKINGS SHALL BE USED ON PCC PAVEMENTS AND PCC BRIDGE DECKS. PREFORMED PAVEMENT MARKINGS TYPE D AND GROOVING FOR RECESSED PAVEMENT MARKINGS SHALL BE USED FOR ALL LANE LINE PAVEMENT MARKINGS WITHIN BRIDGE LIMITS AND PCC PAVEMENTS.

RAISED PAVEMENT LANE MARKER REFLECTOR (TYP.)

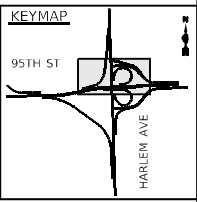
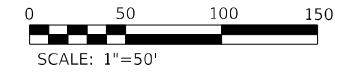
RAISED PAVEMENT LANE MARKER REFLECTOR (TYP.)

MATCH LINE STA. 615+00  
 SEE SHEET 1 OF 6

MATCH LINE STA. 317+50  
 SEE SHEET 5 OF 6

MATCH LINE STA. 630+00 SEE SHEET 3 OF 6

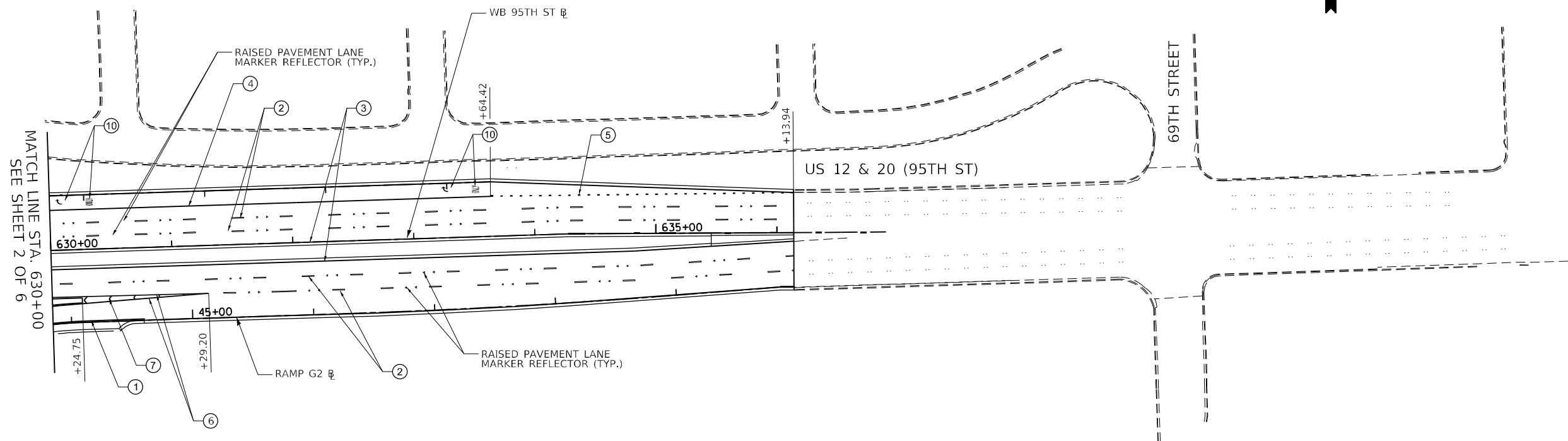
9TH ST. BRIDGE LIMITS  
 MODIFIED URETHANE AND PREFORMED MARKINGS WITH GROOVES TO BE USED



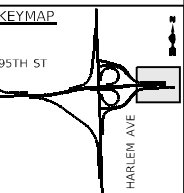
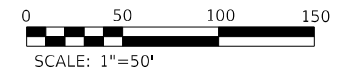
PAVEMENT MARKING LEGEND			
①	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) - SOLID	⑦	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE) - SOLID
②	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) - 10' DASH, 30' SKIP	⑧	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW) - SOLID
③	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW) - SOLID	⑨	THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE) - SOLID
④	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) - SOLID	⑩	THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE)
⑤	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) - 2' DASH, 6' SKIP	⑪	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) - 3' DASH, 9' SKIP
⑥	THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE) - SOLID	⑫	THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE) - 3' DASH, 9' SKIP
		⑬	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) - 2' DASH, 6' SKIP
		A	MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE) - SOLID
		B	MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE) - 10' DASH, 30' SKIP
		C	MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW) - SOLID
		D	MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE) - SOLID
		E	MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE) - 2' DASH, 6' SKIP
		F	MODIFIED URETHANE PAVEMENT MARKING - LINE 8" (WHITE) - SOLID
		G	MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (WHITE) - SOLID
		H	MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (YELLOW) - SOLID
		J	MODIFIED URETHANE PAVEMENT MARKING - LINE 24" (WHITE) - SOLID
		J	MODIFIED URETHANE PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE)
		K	PREFORMED PAVEMENT MARKING LINE 7" (1.5" BLACK, 4" WHITE, 1.5" BLACK) 10' DASH, 30' SKIP (GROOVED)

FILE NAME = ...1D160R49_sht_Pmk02.dgn	USER NAME = KSUMIRAK	DESIGNED - AAF	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING PLAN US 12 &amp; 20 (95TH STREET) - STA. 615+00 TO STA. 630+00</b>	F.A.P. RTE. = 29 & 348	SECTION = 3128-Z-I-R&RS	COUNTY = COOK	TOTAL SHEETS = 659	SHEET NO. = 261	
PN: 3730	PLOT DATE = 11/30/2023	DRAWN - AAF	REVISED -			SCALE: 1"=50'	SHEET NO. 2 OF 6 SHEETS	STA. 615+00.00 TO STA. 630+00.00	CONTRACT NO. 60R49		ILLINOIS FED. AID PROJECT
		CHECKED - BAP	REVISED -								
		DATE -	REVISED -								





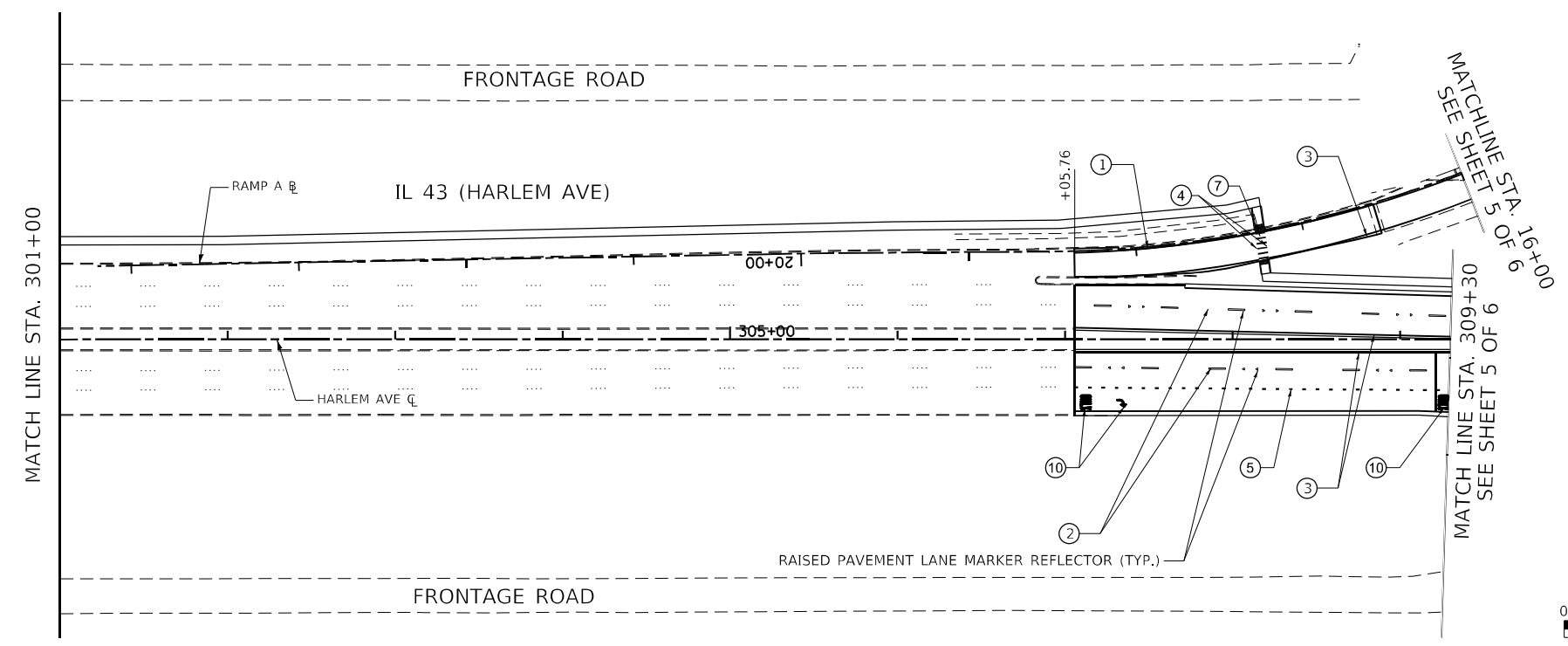
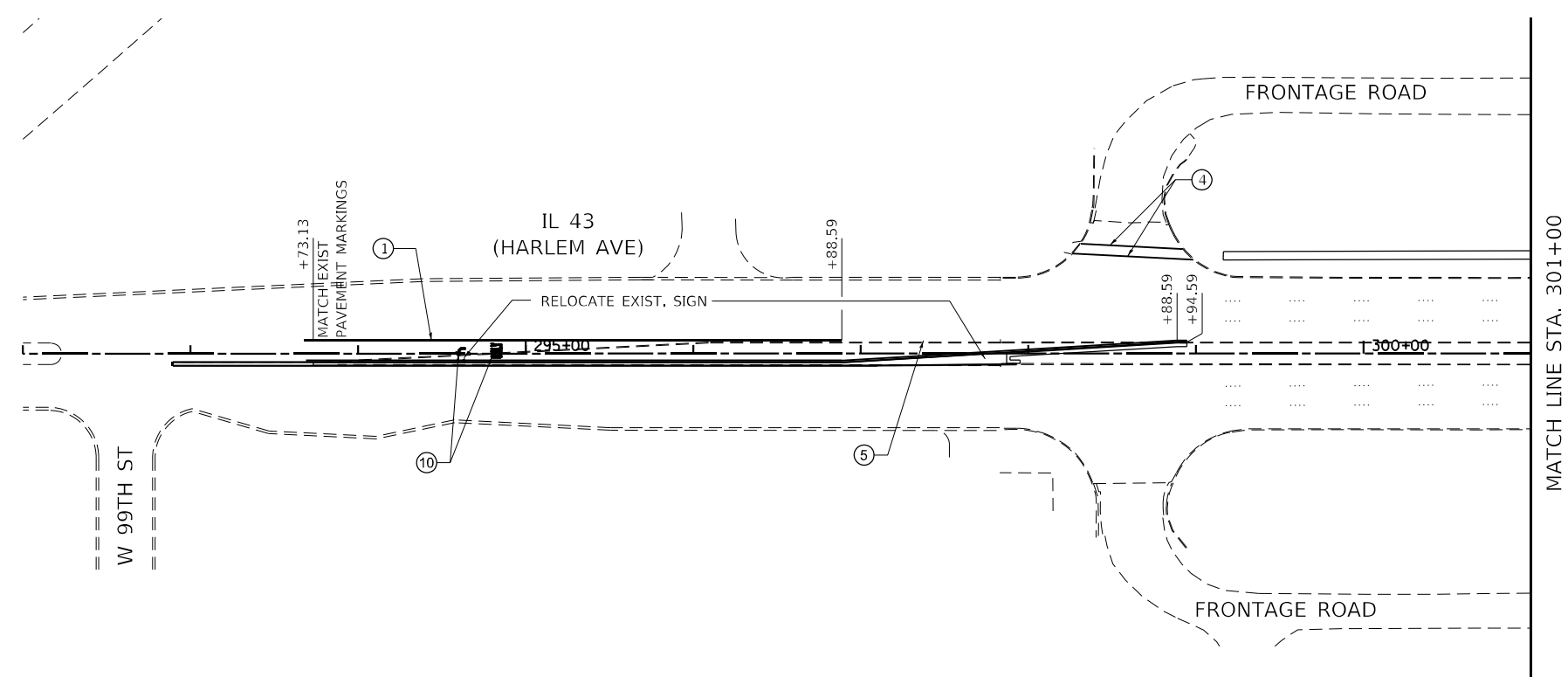
NOTE:  
 THERMOPLASTIC PAVEMENT MARKINGS SHALL BE USED ON PAVEMENT WITH A HMA SURFACE, MODIFIED URETHANE PAVEMENT MARKINGS SHALL BE USED ON PCC PAVEMENTS AND PCC BRIDGE DECKS. PREFORMED PAVEMENT MARKINGS TYPE D AND GROOVING FOR RECESSED PAVEMENT MARKINGS SHALL BE USED FOR ALL LANE LINE PAVEMENT MARKINGS WITHIN BRIDGE LIMITS AND PCC PAVEMENTS.



**PAVEMENT MARKING LEGEND**

- |   |   |   |  |
|---|---|---|--|
| ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) - SOLID              | ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE) - SOLID           | Ⓐ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE) - SOLID              | Ⓒ MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (WHITE) - SOLID                                      |
| ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) - 10' DASH, 30' SKIP | ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW) - SOLID          | Ⓑ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE) - 10' DASH, 30' SKIP | Ⓓ MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (YELLOW) - SOLID                                     |
| ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW) - SOLID             | ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE) - SOLID           | Ⓒ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW) - SOLID             | Ⓔ MODIFIED URETHANE PAVEMENT MARKING - LINE 24" (WHITE) - SOLID                                      |
| ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) - SOLID              | ⑩ THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE)          | Ⓓ MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE) - SOLID              | Ⓕ MODIFIED URETHANE PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE)                                     |
| ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) - 2' DASH, 6' SKIP   | ⑪ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) - 3' DASH, 9' SKIP | Ⓔ MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE) - 2' DASH, 6' SKIP   | Ⓖ PREFORMED PAVEMENT MARKING LINE 7" (1.5" BLACK, 4" WHITE, 1.5" BLACK) 10' DASH, 30' SKIP (GROOVED) |
| ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE) - SOLID              | ⑫ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE) - 3' DASH, 9' SKIP | Ⓕ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" (WHITE) - SOLID              |  |
|   | ⑬ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) - 2' DASH, 6' SKIP |   |  |

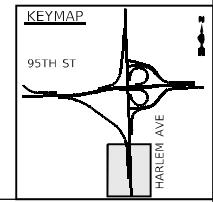
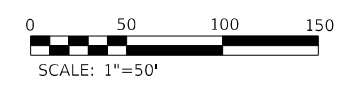
FILE NAME = ...1D160R49_sht_Pmk03.dgn <b>THE HOH GROUP, INC.</b> <small>ARCHITECTS   ENGINEERS</small>	USER NAME = KSUMRAK DESIGNED - AAF DRAWN - AAF PLOT SCALE = N/A PLOT DATE = 11/30/2023	CHECKED - BAP DATE -	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING PLAN</b> <b>US 12 &amp; 20 (95TH STREET) - STA. 630+00 TO STA. 636+00</b>	F.A.P. RTE. = 29 & 348 SECTION = 3128-Z-I-R&RS COUNTY = COOK TOTAL SHEETS = 659 SHEET NO. = 262 CONTRACT NO. 60R49	ILLINOIS FED. AID PROJECT
	PN: 3730	SCALE: 1"=50' SHEET NO. 3 OF 6 SHEETS STA. 630+00.00 TO STA. 636+00.00					



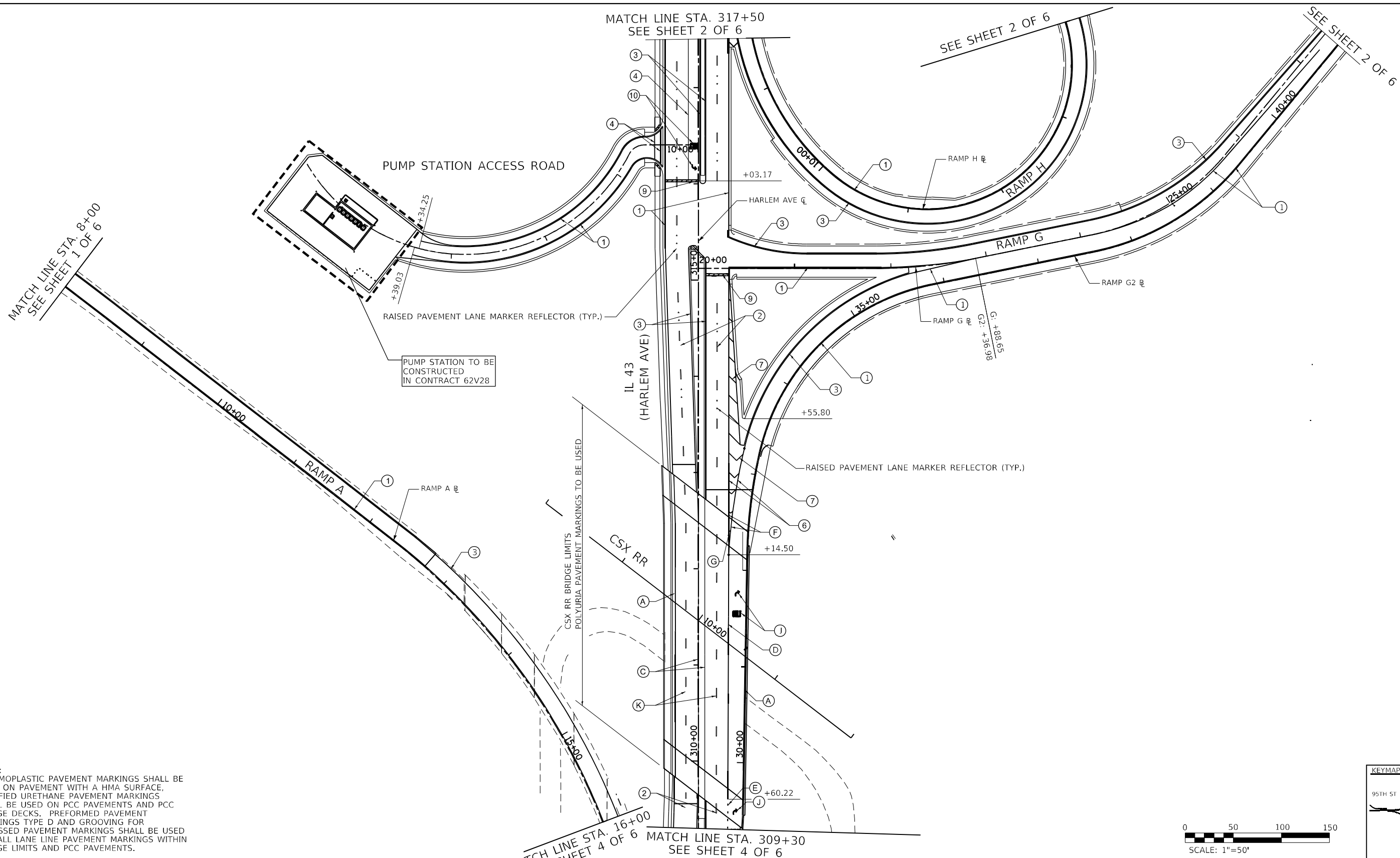
NOTE:  
 THERMOPLASTIC PAVEMENT MARKINGS SHALL BE USED ON PAVEMENT WITH A HMA SURFACE. MODIFIED URETHANE PAVEMENT MARKINGS SHALL BE USED ON PCC PAVEMENTS AND PCC BRIDGE DECKS. PREFORMED PAVEMENT MARKINGS TYPE D AND GROOVING FOR RECESSED PAVEMENT MARKINGS SHALL BE USED FOR ALL LANE LINE PAVEMENT MARKINGS WITHIN BRIDGE LIMITS AND PCC PAVEMENTS.

**PAVEMENT MARKING LEGEND**

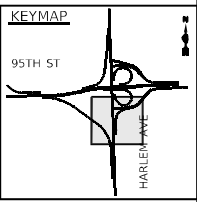
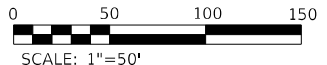
- |   |   |   |  |
|---|---|---|--|
| ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) - SOLID              | ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE) - SOLID           | Ⓐ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE) - SOLID              | Ⓒ MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (WHITE) - SOLID                                      |
| ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) - 10' DASH, 30' SKIP | ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW) - SOLID          | Ⓑ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE) - 10' DASH, 30' SKIP | Ⓓ MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (YELLOW) - SOLID                                     |
| ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW) - SOLID             | ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE) - SOLID           | Ⓒ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW) - SOLID             | Ⓔ MODIFIED URETHANE PAVEMENT MARKING - LINE 24" (WHITE) - SOLID                                      |
| ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) - SOLID              | ⑩ THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE)          | Ⓓ MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE) - SOLID              | Ⓕ MODIFIED URETHANE PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE)                                     |
| ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) - 2' DASH, 6' SKIP   | ⑪ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) - 3' DASH, 9' SKIP | Ⓔ MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE) - 2' DASH, 6' SKIP   | Ⓖ PREFORMED PAVEMENT MARKING LINE 7" (1.5" BLACK, 4" WHITE, 1.5" BLACK) 10' DASH, 30' SKIP (GROOVED) |
| ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE) - SOLID              | ⑫ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE) - 3' DASH, 9' SKIP | Ⓕ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" (WHITE) - SOLID              |  |
|   | ⑬ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) - 2' DASH, 6' SKIP | Ⓖ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" (WHITE) - SOLID              |  |



FILE NAME = ...1D160R49_sht_Pmk04.dgn <b>THE HOH GROUP, INC.</b> <small>ARCHITECTS   ENGINEERS</small>	USER NAME = KSUMRAK PLOT SCALE = N/A PLOT DATE = 11/30/2023	DESIGNED - AAF DRAWN - AAF CHECKED - BAP DATE -	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING PLAN - IL 43 (HARLEM AVENUE)</b> <b>(WITH LEFT TURN LANE) - STA. 292+00 TO STA. 309+30</b>	F.A.P. RTE. = 29 & 348 SECTION = 3128-Z-I-R&RS COUNTY = COOK ILLINOIS FED. AID PROJECT	TOTAL SHEETS = 659 SHEET NO. = 263 CONTRACT NO. 60R49
	PN: 3730	SCALE: 1"=50' SHEET NO. 4 OF 6 SHEETS STA. 292+00.00 TO STA. 309+30.00					

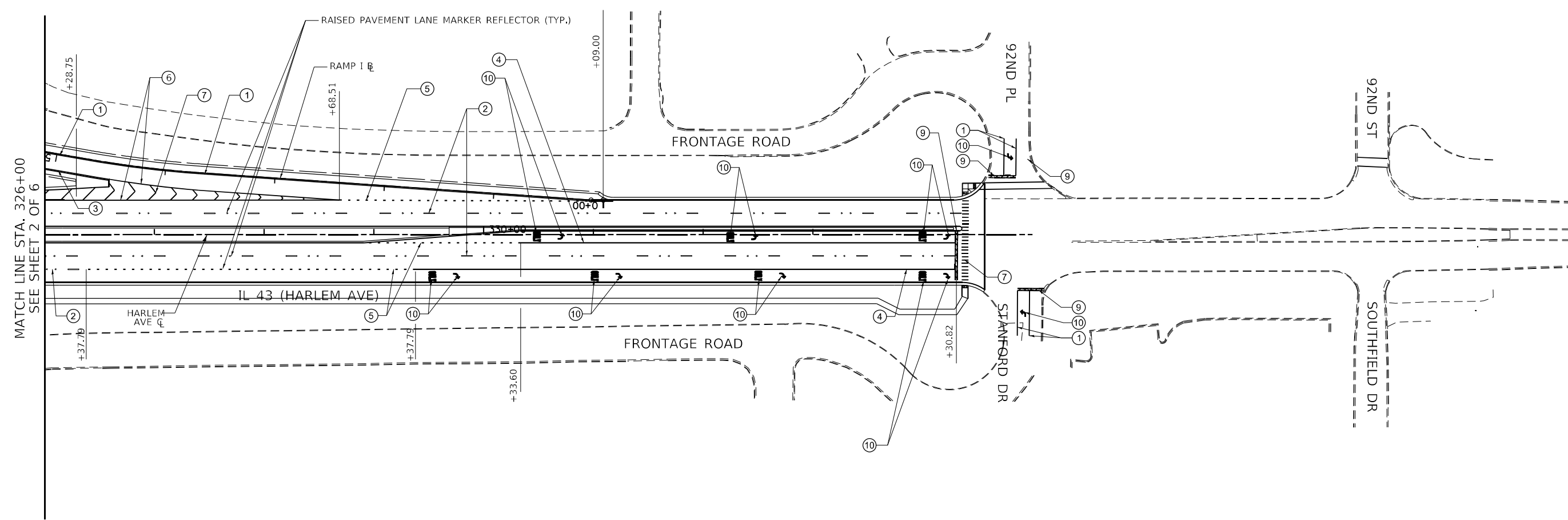
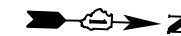


NOTE:  
 THERMOPLASTIC PAVEMENT MARKINGS SHALL BE USED ON PAVEMENT WITH A HMA SURFACE. MODIFIED URETHANE PAVEMENT MARKINGS SHALL BE USED ON PCC PAVEMENTS AND PCC BRIDGE DECKS. PREFORMED PAVEMENT MARKINGS TYPE D AND GROOVING FOR RECESSED PAVEMENT MARKINGS SHALL BE USED FOR ALL LANE LINE PAVEMENT MARKINGS WITHIN BRIDGE LIMITS AND PCC PAVEMENTS.

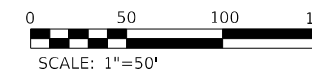
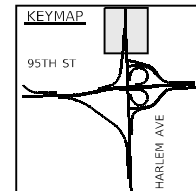


PAVEMENT MARKING LEGEND			
① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) - SOLID	⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE) - SOLID	Ⓐ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE) - SOLID	ⓐ MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (WHITE) - SOLID
② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) - 10' DASH, 30' SKIP	⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW) - SOLID	Ⓑ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE) - 10' DASH, 30' SKIP	ⓑ MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (YELLOW) - SOLID
③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW) - SOLID	⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE) - SOLID	Ⓒ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW) - SOLID	ⓒ MODIFIED URETHANE PAVEMENT MARKING - LINE 24" (WHITE) - SOLID
④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) - SOLID	⑩ THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE)	Ⓓ MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE) - SOLID	ⓓ MODIFIED URETHANE PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE)
⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) - 2' DASH, 6' SKIP	⑪ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) - 3' DASH, 9' SKIP	Ⓔ MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE) - 2' DASH, 6' SKIP	ⓔ MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE) - 2' DASH, 6' SKIP
⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE) - SOLID	⑫ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE) - 3' DASH, 9' SKIP	Ⓕ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" (WHITE) - SOLID	ⓕ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" (WHITE) - SOLID
	⑬ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) - 2' DASH, 6' SKIP		ⓖ MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (WHITE) - SOLID

FILE NAME = ...10160R49_sht_Pmk05.dgn <b>THE HOH GROUP, INC.</b> <small>ARCHITECTS   ENGINEERS</small>	USER NAME = KSUMRAK	DESIGNED - AAF	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING PLAN</b> <b>IL 43 (HARLEM AVENUE) - STA. 309+30 TO STA. 317+50</b>	F.A.P. RTE. = 29 & 348	SECTION = 3128-Z1-R&RS	COUNTY = COOK	TOTAL SHEETS = 659	SHEET NO. = 264
	PLOT SCALE = N/A	CHECKED - BAP	REVISED -			SCALE: 1"=50'	SHEET NO. 5 OF 6 SHEETS	STA. 309+30.00 TO STA. 317+50.00	CONTRACT NO. 60R49	
PN: 3730	PLOT DATE = 11/30/2023	DATE -	REVISED -	ILLINOIS FED. AID PROJECT						



NOTE:  
 THERMOPLASTIC PAVEMENT MARKINGS SHALL BE USED ON PAVEMENT WITH A HMA SURFACE. MODIFIED URETHANE PAVEMENT MARKINGS SHALL BE USED ON PCC PAVEMENTS AND PCC BRIDGE DECKS. PREFORMED PAVEMENT MARKINGS TYPE D AND GROOVING FOR RECESSED PAVEMENT MARKINGS SHALL BE USED FOR ALL LANE LINE PAVEMENT MARKINGS WITHIN BRIDGE LIMITS AND PCC PAVEMENTS.



PAVEMENT MARKING LEGEND		
① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) - SOLID	⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE) - SOLID	Ⓐ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE) - SOLID
② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) - 10' DASH, 30' SKIP	⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW) - SOLID	Ⓑ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE) - 10' DASH, 30' SKIP
③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW) - SOLID	⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE) - SOLID	Ⓒ MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW) - SOLID
④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) - SOLID	⑩ THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE)	Ⓓ MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE) - SOLID
⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) - 2' DASH, 6' SKIP	⑪ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE) - 3' DASH, 9' SKIP	Ⓔ MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE) - 2' DASH, 6' SKIP
⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE) - SOLID	⑫ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE) - 3' DASH, 9' SKIP	Ⓕ MODIFIED URETHANE PAVEMENT MARKING - LINE 8" (WHITE) - SOLID
	⑬ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE) - 2' DASH, 6' SKIP	
		Ⓖ MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (WHITE) - SOLID
		Ⓗ MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (YELLOW) - SOLID
		Ⓙ MODIFIED URETHANE PAVEMENT MARKING - LINE 24" (WHITE) - SOLID
		Ⓚ MODIFIED URETHANE PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE)
		Ⓛ PREFORMED PAVEMENT MARKING LINE 7" (1.5" BLACK, 4" WHITE, 1.5" BLACK) 10' DASH, 30' SKIP (GROOVED)

FILE NAME = ...1D160R49_sht_Pmk06.dgn <b>THE HOH GROUP, INC.</b> <small>ARCHITECTS   ENGINEERS</small>	USER NAME = KSUMRAK	DESIGNED - AAF	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING PLAN</b> <b>IL 43 (HARLEM AVENUE) - STA. 326+00 TO STA. 335+00</b>		F.A.P. RTE. 29 & 348	SECTION 3128-Z1-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 265
	PLOT SCALE = N/A	CHECKED - BAP	REVISED -		SCALE: 1"=50'	SHEET NO. 6 OF 6 SHEETS	STA. 326+00.00 TO STA. N/A	CONTRACT NO. 60R49		ILLINOIS FED. AID PROJECT	
PN: 3730	PLOT DATE = 11/30/2023	DATE -	REVISED -								

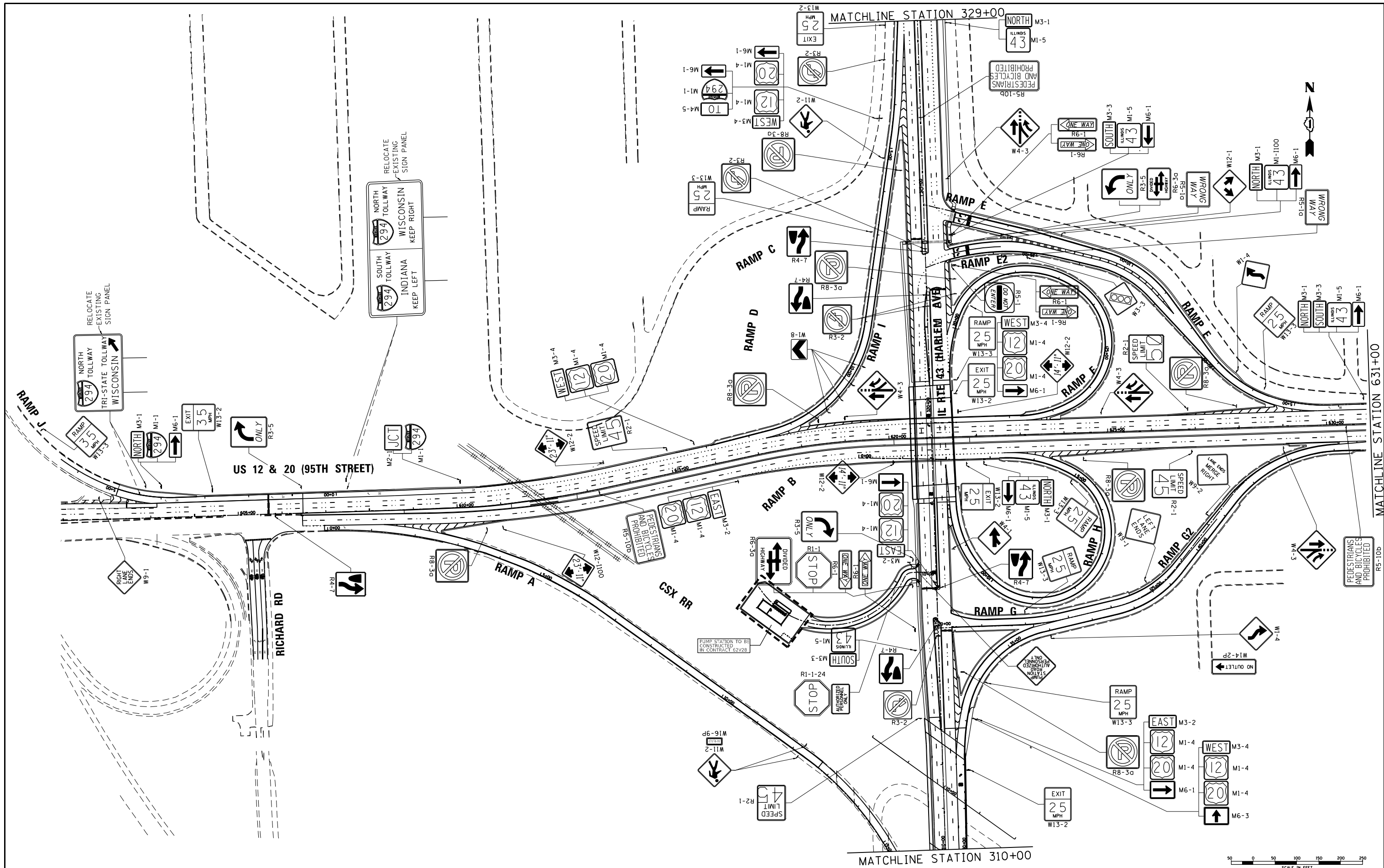
SIGN SCHEDULE						IDOT											REMARKS
						SIGN PANEL - TYPE 1	SIGN PANEL - TYPE 2	REMOVE SIGN PANEL - TYPE 1	REMOVE SIGN PANEL - TYPE 2	DIST (H) EOP-SIGN	DIST (V) EOP-SIGN BOT.	DIST (H) EOP-POST	Pvmt Mt L=Top/sign to 3' below gd(+4.5' more for TS) Grd Mt L=Top/sign to 5' below gd (+5' more for TS)				
										6'-C&G 18'-SHLD.	5'-MULTI-SIGN 7'-NORM		TELESCOPING STL SGN SPT 4" x 6" OR (2" x 2") (LIN FT)			TELES STL SIN SUPPORT	
ROADWAY	STATION	BEGIN OFFSET	TYPE	WIDTH (FT)	HEIGHT (FT)	72000100 SQ FT	72000200 SQ FT	72400310 SQ FT	72400320 SQ FT	A-A	B-B	C-C	P1 FOOT	P2 FOOT	P1+P2 FOOT	72800100 FOOT	
95TH ST.	605+75	MEDIAN	R4-7	2.00	2.50	5				N/A	7.00	C/L	5.00	9.50	15	20	KEEP RIGHT SYMBOL
95TH ST.	610+50	R	R8-3a	2.00	2.00	4				6.00	7.00	11.00	5.00	9.00	14	19	NO PARKING SYMBOL
95TH ST.	611+00	R	W12-1100	2.00	2.00	4				6.00	7.00	8.00	5.00	9.00	14	19	23'-11" CLEARANCE
95TH ST.	613+25	MEDIAN	R5-10b	2.50	1.50	3.75				N/A	7.00	C/L	5.00	8.50	14	19	PED & BIKE PROHIBITED
95TH ST.	616+50	R	M1-4	2.00	2.00	4				6.00	5.00	8.00	5.00	7.00	12	17	ROUTE 12
95TH ST.	616+50	R	M1-4	2.00	2.00	4				6.00	5.00	8.00	5.00	7.00	12	17	ROUTE 20
95TH ST.	616+50	R	M3-2	2.00	1.00	2				6.00	5.00	7.00	5.00	6.00	11	16	EAST
95TH ST.	620+00	R	W12-2	2.00	2.00	4				6.00	7.00	8.00	5.00	9.00	14	19	14'-11" CLEARANCE
95TH ST.	621+75	R	W13-2	2.00	2.50	5				6.00	7.00	8.50	5.00	9.50	15	20	EXIT 25 MPH
95TH ST.	622+10	R	M6-1	1.75	1.25	2.19				6.00	5.00	7.10	5.00	9.25	14	19	RIGHT TURN ARROW SYMBOL
95TH ST.	622+10	R	M1-5	2.00	2.00	4				--	--	--	--	--	--	--	ILLINOIS 43 - COMB. W/ OTHER SIGN
95TH ST.	622+10	R	M3-1	2.00	1.00	2				--	--	--	--	--	--	--	NORTH - COMB. W/ OTHER SIGN
95TH ST.	624+45	R	R8-3a	2.00	2.00	4				6.00	7.00	8.00	4.00	9.00	13	18	NO PARKING SYMBOL
95TH ST.	627+00	R	R2-1	2.00	2.50	5				6.00	7.00	8.50	5.00	9.50	15	20	SPEED LIMIT 45
95TH ST.	629+00	R	W4-3	3.00	3.00	9				6.00	7.00	10.50	5.00	10.00	15	20	MERGE SYMBOL
95TH ST.	633+25	R	M1-4	2.00	2.00	4				6.00	5.00	8.00	5.00	7.00	12	17	ROUTE 12
95TH ST.	633+25	R	M1-4	2.00	2.00	4				6.00	5.00	8.00	5.00	7.00	12	17	ROUTE 20
95TH ST.	633+25	R	M3-2	2.00	1.00	2				6.00	5.00	7.00	5.00	6.00	11	16	EAST
95TH ST.	601+80	L	W9-1	3.00	3.00	9				6.00	7.00	10.50	5.00	10.00	15	20	RIGHT LANE ENDS
95TH ST.	610+10	L	M1-1	2.00	2.00	4				6.00	5.00	8.00	5.00	8.25	13	18	INTERSTATE 294 SHIELD
95TH ST.	610+10	L	M2-1	1.75	1.25	2.19				--	--	--	--	--	--	--	JCT - COMB. W/ OTHER SIGN
95TH ST.	613+50	L	W12-2	2.00	2.00	4				6.00	7.00	8.00	5.00	9.00	14	19	23'-11" CLEARANCE
95TH ST.	615+00	L	R2-1	2.00	2.50	5				6.00	7.00	8.50	5.00	9.50	15	20	SPEED LIMIT 45
95TH ST.	615+70	L	M1-4	2.00	2.00	4				6.00	5.00	8.00	5.00	7.00	12	17	ROUTE 12
95TH ST.	615+70	L	M1-4	2.00	2.00	4				6.00	5.00	8.00	5.00	7.00	12	17	ROUTE 20
95TH ST.	615+70	L	M3-4	2.00	1.00	2				6.00	5.00	7.00	5.00	6.00	11	16	WEST
95TH ST.	618+46	L	R8-3a	2.00	2.00	4				6.00	7.00	8.00	5.00	9.00	14	19	NO PARKING SYMBOL
95TH ST.	619+00	L	W4-3	3.00	3.00	9				6.00	7.00	10.50	5.00	10.00	15	20	MERGE SYMBOL
95TH ST.	621+75	L	W12-2	2.00	2.00	4				6.00	7.00	8.00	5.00	9.00	14	19	14'-11" CLEARANCE
95TH ST.	624+85	L	W4-3	3.00	3.00	9				6.00	7.00	10.50	5.00	10.00	15	20	MERGE SYMBOL
95TH ST.	626+84	L	R2-1	2.00	2.50	5				6.00	7.00	8.50	5.00	9.50	15	20	SPEED LIMIT 45
95TH ST.	627+93	L	R8-3a	2.00	2.00	4				6.00	7.00	8.00	5.00	9.00	14	19	NO PARKING SYMBOL
95TH ST.	630+50	MEDIAN	R5-10b	2.50	1.50	3.75				N/A		C/L	5.00	1.50	7	12	PEDESTRIAN & BIKE PROHIBITED
95TH ST.	630+90	L	M6-1	1.75	1.25	2.19				6.00	5.00	7.10	5.00	6.25	11	16	RIGHT TURN ARROW SYMBOL
95TH ST.	630+90	L	M1-5	2.00	2.00	4				6.00	5.00	8.00	5.00	7.00	12	17	ILLINOIS 43
95TH ST.	630+90	L	M3-3	2.00	1.00	2				6.00	5.00	7.00	5.00	6.00	11	16	SOUTH
95TH ST.	630+90	L	M3-1	2.00	1.00	2				6.00	5.00	7.00	5.00	6.00	11	16	NORTH
95TH ST.	631+20	L	WB	N-S Bridgeview Sign									5.00	0.00	5	10	
95TH ST.	632+30	L	M1-5	2.00	2.00	4				6.00	5.00	8.00	5.00	8.25	13	18	ILLINOIS 43
95TH ST.	632+30	L	M2-1	1.75	1.25	2.19				--	--	--	--	--	--	--	JCT - COMB. W/ OTHER SIGN
95TH ST.	633+50	L	W13-2	2.00	2.50	5				6.00	7.00	8.50	5.00	9.50	15	20	EXIT 25 MPH
95TH ST.	635+80	MEDIAN	R5-10b	2.50	1.50	3.75				N/A		C/L	5.00	8.50	14	19	PEDESTRIAN & BIKE PROHIBITED
95TH ST.	636+14	MEDIAN	W6-1	3.00	3.00	9				N/A		C/L	5.00	10.00	15	20	DIVIDED HIGHWAY SYMBOL
HARLEM AVE.	299+25	MEDIAN	R5-10b	2.50	1.50	3.75				N/A		C/L	5.00	8.50	14	19	PEDESTRIAN & BIKE PROHIBITED
HARLEM AVE.	307+10	MEDIAN	R5-10b	2.50	1.50	3.75				N/A		C/L	5.00	8.50	14	19	PEDESTRIAN & BIKE PROHIBITED
HARLEM AVE.	307+28	R	M1-4	2.00	2.00	4				6.00	5.00	8.00	5.00	7.00	12	17	ROUTE 12
HARLEM AVE.	307+28	R	M1-4	2.00	2.00	4				6.00	5.00	8.00	5.00	7.00	12	17	ROUTE 20
HARLEM AVE.	307+28	R	M2-1	1.75	1.25	2.19				6.00	5.00	7.10	5.00	6.25	11	16	JCT
HARLEM AVE.	309+25	R	D1-2	5.00	2.50		12.5			6.00	5.00	6.00	5.00	7.50	13	18	BRIDGEVIEW / OAK LAWN
HARLEM AVE.	313+08	R	M6-1	1.75	1.25	2.19				6.00	5.00	7.10	5.00	6.25	11	16	RIGHT TURN ARROW SYMBOL
HARLEM AVE.	313+08	R	M1-4	2.00	2.00	4				6.00	5.00	8.00	5.00	7.00	12	17	ROUTE 12
HARLEM AVE.	313+08	R	M1-4	2.00	2.00	4				6.00	5.00	8.00	5.00	7.00	12	17	ROUTE 20
HARLEM AVE.	313+08	R	M3-2	2.00	1.00	2				6.00	5.00	7.00	5.00	6.00	11	16	EAST
HARLEM AVE.	313+08	R	M6-3	1.75	1.25	2.19				6.00	5.00	7.10	5.00	6.25	11	16	STRAIGHT ARROW - SYMBOL
HARLEM AVE.	313+08	R	M1-4	2.00	2.00	4				6.00	5.00	8.00	5.00	7.00	12	17	ROUTE 12
HARLEM AVE.	313+08	R	M1-4	2.00	2.00	4				6.00	5.00	8.00	5.00	7.00	12	17	ROUTE 20
HARLEM AVE.	313+08	R	M3-4	2.00	1.00	2				6.00	5.00	7.00	5.00	6.00	11	16	WEST
HARLEM AVE.	314+20	R	R8-3a	2.00	2.00	4				6.00	7.00	8.00	5.00	9.00	14	19	NO PARKING SYMBOL
HARLEM AVE.	314+95	MEDIAN	R3-2	2.00	2.00	4				N/A		CL	5.00	9.00	14	19	NO RIGHT TURN - SYMBOL
HARLEM AVE.	315+85	MEDIAN	R4-7	2.00	2.50	5				N/A		CL	5.00	9.50	15	20	KEEP RIGHT SYMBOL
HARLEM AVE.	316+90	R	W4-1	3.00	3.00	9				6.00	7.00	10.50	5.00	10.00	15	20	MERGE RIGHT SYMBOL
HARLEM AVE.	320+70	R	M6-1	1.75	1.25	2.19				6.00	5.00	7.10	5.00	6.25	11	16	RIGHT TURN ARROW SYMBOL
HARLEM AVE.	320+70	R	M1-4	2.00	2.00	4				6.00	5.00	8.00	5.00	7.00	12	17	ROUTE 12
HARLEM AVE.	320+70	R	M1-4	2.00	2.00	4				6.00	5.00	8.00	5.00	7.00	12	17	ROUTE 20
HARLEM AVE.	320+70	R	M3-4	2.00	1.00	2				6.00	5.00	7.00	5.00	6.00	11	16	WEST
HARLEM AVE.	323+08	R	R8-3a	2.00	2.00	4				6.00	7.00	8.00	5.00	9.00	14	19	NO PARKING SYMBOL
HARLEM AVE.	323+40	R	R5-1	2.50	2.50	6.25				6.00	7.00	9.13	5.00	9.50	15	20	DO NOT ENTER
HARLEM AVE.	323+73	MEDIAN	R4-7	2.00	2.50	5				N/A		CL	5.00	9.50	15	20	KEEP RIGHT SYMBOL
HARLEM AVE.	323+50	R	R6-1L	3.00	1.00	3				6.00	7.00	7.50	5.00	8.00	13	18	ONE WAY ARROW - LEFT
HARLEM AVE.	323+50	R	R6-1R	3.00	1.00	3				6.00	7.00	7.50	5.00	8.00	13	18	ONE WAY ARROW - RIGHT

CONTINUE ONTO NEXT SHEET

FILE NAME = ...1D180R49_sht_SignSchedule.dgn <b>THE HOH GROUP, INC.</b> ARCHITECTS   ENGINEERS PN: 3730		USER NAME = KSUNRAK PLOT SCALE = N/A PLOT DATE = 11/30/2023		DESIGNED - AAF DRAWN - AAF CHECKED - BAP DATE -		REVISED - REVISED - REVISED - REVISED -		<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>				<b>SIGN SCHEDULES</b>				F.A.P. R.T.E. SECTION COUNTY TOTAL SHEETS SHEET NO. 29 & 348 3128-Z1-R&RS COOK 659 266 CONTRACT NO. 60R49	
SCALE: NTS				SHEET NO. 1 OF 3 SHEETS		STA. N/A		TO STA. N/A				ILLINOIS FED. AID PROJECT					

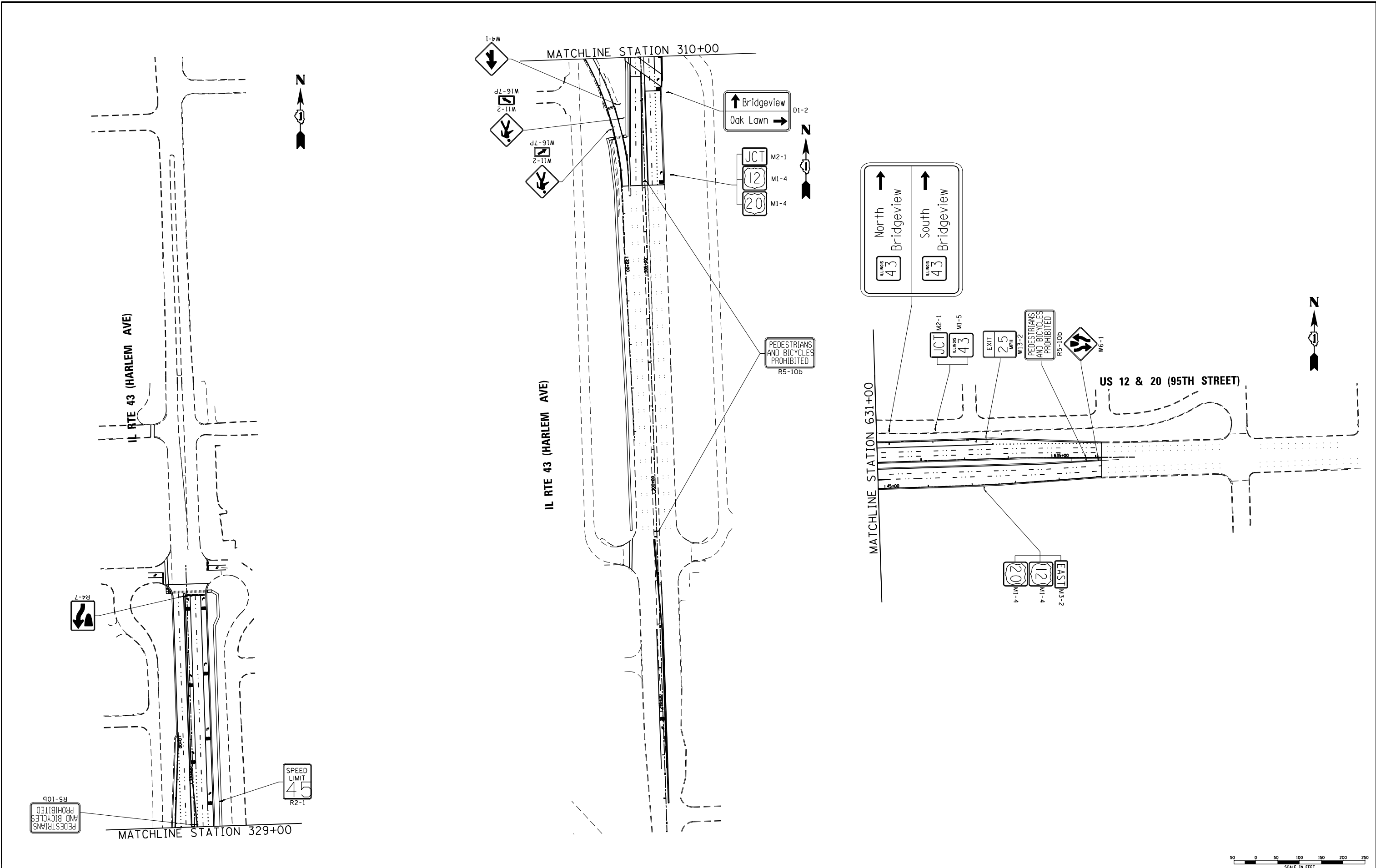
SIGN SCHEDULE							IDOT											REMARKS
							SIGN PANEL - TYPE 1	SIGN PANEL - TYPE 2	REMOVE SIGN PANEL - TYPE 1	REMOVE SIGN PANEL - TYPE 2	DIST (H)			Pvmt Mt L=Top/sign to 3' below gd(+4.5' more for TS) Grd Mt L=Top/sign to 5' below gd (+5' more for TS)				
											EOP-SIGN		EOP-POST	TELESCOPING STL SGN SPT 4" x 6" OR (2" x 2") (LIN FT)			TELES STL SIN SUPPORT	
							72000100	72000200	72400310	72400320	6'-C&G	5'-MULTI-SIGN		P1	P2	P1+P2	72800100	
ROADWAY	STATION	BEGIN OFFSET	TYPE	WIDTH (FT)	HEIGHT (FT)	SQ FT	SQ FT	SQ FT	SQ FT	18'-SHLD. A-A	7'-NORM B-B	C-C	FOOT	FOOT	FOOT	FOOT		
CONTINUE ON PREVIOUS SHEET																		
HARLEM AVE.	324+28	R	R6-1L	3.00	1.00	3				6.00	7.00	7.50	5.00	8.00	13	18	ONE WAY ARROW - LEFT	
HARLEM AVE.	324+28	R	R6-1R	3.00	1.00	3				6.00	7.00	7.50	5.00	8.00	13	18	ONE WAY ARROW - RIGHT	
HARLEM AVE.	325+38	R	W4-3	3.00	3.00	9				6.00	7.00	10.50	5.00	10.00	15	20	ADDED LANE RIGHT SYMBOL	
HARLEM AVE.	328+93	R	M1-5	2.00	2.00	4				6.00	5.00	8.00	5.00	8.00	13	18	ILLINOIS 43	
HARLEM AVE.	328+93	R	M3-1	2.00	1.00	2				6.00	5.00	7.00	--	--	--	--	NORTH - COMB. W/ OTHER SIGN	
HARLEM AVE.	329+58	R	R2-1	2.00	2.50	5				6.00	7.00	8.50	5.00	9.50	15	20	SPEED LIMIT 45	
HARLEM AVE.	308+50	L	W11-2	2.50	2.50	6.25				6.00	7.00	9.13	5.00	9.50	15	20	PEDESTRIAN SYMBOL	
HARLEM AVE.	308+50	L	(W16-7P)	2.00	1.50	3											PEDESTRIAN ARROW	
HARLEM AVE.	313+07	L	R2-1	2.00	2.50	5				6.00	7.00	8.50	5.00	9.50	15	20	SPEED LIMIT 45	
HARLEM AVE.	314+62	L	M1-5	2.00	2.00	4				6.00	5.00	8.00	5.00	8.00	13	18	ILLINOIS 43	
HARLEM AVE.	314+62	L	M3-3	2.00	1.00	2				--	--	--	--	--	--	--	SOUTH - COMB. W/ OTHER SIGN	
HARLEM AVE.	315+00	L	R6-1R	3.00	1.00	3				6.00	7.00	7.50	5.00	8.00	13	18	ONE WAY ARROW - RIGHT	
HARLEM AVE.	315+10	MEDIAN	R4-7	2.00	2.50	5				N/A	7.00	CL	5.00	9.50	15	20	KEEP RIGHT SYMBOL	
HARLEM AVE.	316+05	MEDIAN	M6-1L	1.75	1.25	2.19				N/A	5.00	CL	5.00	6.25	11	16	RIGHT TURN ARROW - SYMBOL	
HARLEM AVE.	316+05	MEDIAN	M1-4	2.00	2.00	4				N/A	5.00	CL	5.00	7.00	12	17	ROUTE 12	
HARLEM AVE.	316+05	MEDIAN	M1-4	2.00	2.00	4				N/A	5.00	CL	5.00	7.00	12	17	ROUTE 20	
HARLEM AVE.	316+05	MEDIAN	M3-2	2.00	1.00	2				N/A	5.00	CL	5.00	6.00	11	16	EAST	
HARLEM AVE.	322+80	MEDIAN	R4-7	2.00	2.50	5				N/A	7.00	CL	5.00	9.50	15	20	KEEP RIGHT SYMBOL	
HARLEM AVE.	322+50	MEDIAN	R3-2	2.00	2.00	4				N/A	7.00	CL		9.00	9	14	NO LEFT TURN SYMBOL	
HARLEM AVE.	322+75	R	R3-2	2.00	2.00	4				N/A	7.00	CL	5.00	9.00	14	19	NO LEFT TURN SYMBOL	
HARLEM AVE.	325+59	L	R8-3a	2.00	2.00	4				6.00	7.00	8.00	5.00	9.00	14	19	NO PARKING SYMBOL	
HARLEM AVE.	326+75	MEDIAN	R5-10b	2.50	1.50	3.75				N/A	7.00	C/L	5.00	8.50	14	19	PEDESTRIAN & BIKE PROHIBITED	
HARLEM AVE.	329+00	MEDIAN	R5-10b	2.50	1.50	3.75				N/A	7.00	C/L	5.00	8.50	14	19	PEDESTRIAN & BIKE PROHIBITED	
HARLEM AVE.	334+28	MEDIAN	R4-7	2.00	2.50	5				N/A	7.00	CL	5.00	9.50	15	20	KEEP RIGHT SYMBOL	
HARLEM AVE.	315+10	MEDIAN	R4-7	2.00	2.50	5				N/A	7.00	CL	5.00	9.50	15	20	KEEP RIGHT SYMBOL	
RAMP A	12+20	L	SB-43-(W11-2)	3.00	3.00	9				18.00	7.00	22.50	5.00	12.50	18	23	PEDESTRIAN SYMBOL	
RAMP A	12+20	L	(W16-2P)	2.00	1.50	3				--	--	--	--	--	--	--	PEDESTRIAN '500 FEET' - COMB. W/ OTHER SIGN	
RAMP A	12+20	L	(W16-9P)	2.00	1.00	2				--	--	--	--	--	--	--	PEDESTRIAN 'AHEAD' - COMB. W/ OTHER SIGN	
RAMP A	12+20	R	SB-43-(W11-2)	3.00	3.00	9				18.00	7.00	22.50	5.00				PEDESTRIAN Symbol	
RAMP A	12+20	R	(W16-9P)	2.00	1.00	2				--	--	--	--	--	--	--	PEDESTRIAN 'AHEAD' - COMB. W/ OTHER SIGN	
RAMP A	16+50	L	SB-43-(W4-1R)	3.00	3.00	9				18.00	7.00	22.50	5.00	10.00	15	20	MERGE RIGHT SYMBOL	
RAMP A	16+86	L	SB-43-(W11-2)	2.50	2.50	6.25				18.00	7.00	21.13	5.00	9.90	15	20	PEDESTRIAN SYMBOL	
RAMP A	17+00	R	SB-43-(W11-2)	2.50	2.50	6.25				18.00	7.00	21.13	5.00	11.00	16	21	PEDESTRIAN SYMBOL	
RAMP A	17+00	R	(W16-7P)	2.00	1.50	3				--	--	--	--	--	--	--	PEDESTRIAN ARROW	
RAMP E	5+90	R	E-(W13-3)	2.00	2.50	5				18.00	7.00	20.50	5.00	9.50	15	20	RAMP 25 MPH	
RAMP E	6+50	R	E-(W1-4)	2.50	2.50	6.25				18.00	7.00	21.13	5.00	9.50	15	20	REVERSE CURVE Symbol	
RAMP E	11+80	R	E2-(M6-1)	1.75	1.25	2.19				18.00	5.00	19.10	5.00	9.25	14	19	RIGHT TURN ARROW SYMBOL	
RAMP E	11+80	R	E2-(M1-100)	2.00	2.00	4				--	--	--	--	--	--	--	ILLINOIS 43 - COMB. W/ OTHER SIGN	
RAMP E	11+80	R	E2-(M3-1)	2.00	1.00	2				--	--	--	--	--	--	--	NORTH - COMB. W/ OTHER SIGN	
RAMP E2	25+10	L	E2-(W3-3)	3.00	3.00	9				18.00	7.00	22.50	5.00	10.00	15	20	STOP LIGHT - SYMBOL	
RAMP E2	25+80	L	E2-(R5-1A)	3.00	2.00	6				18.00	7.00	21.00	5.00	9.00	14	19	WRONG WAY	
RAMP E2	25+65	R	E2-(W12-1)	3.00	3.00	9				18.00	7.00	22.50	5.00	10.00	15	20	DOUBLE ARROWS - SYMBOL	
RAMP E2	26+90	R	E2-(M6-1)	1.75	1.25	2.19				18.00	5.00	19.10	5.00	6.25	11	16	LEFT TURN ARROW SYMBOL	
RAMP E2	26+90	R	E2-(M1-5)	2.00	2.00	4				18.00	5.00	20.00	5.00	7.00	12	17	ILLINOIS 43 - COMB. W/ OTHER SIGN	
RAMP E2	26+90	R	E2-(M3-3)	2.00	1.00	2				18.00	5.00	19.00	5.00	6.00	11	16	SOUTH - COMB. W/ OTHER SIGN	
RAMP E2	25+90	R	E2-(R5-1A)	3.00	2.00	6				18.00	7.00	21.00	5.00	9.00	14	19	WRONG WAY	
RAMP E2	26+90	R	E2-(R6-3A)	2.00	1.50	3				18.00	7.00	19.50	5.00	8.50	14	19	DIVIDED HIGHWAY AHEAD	
RAMP E2	26+90	R	E2-(R3-5)	2.50	3.00	7.5				18.00	10.00	21.75	5.00	13.00	18	23	LEFT TURN ONLY	
RAMP F	18+50	R	F-(W13-2)	2.00	2.50	5				18.00	7.00	20.50	5.00	9.50	15	20	EXIT 25 MPH	
RAMP F	20+60	R	F-(W13-3)	2.00	2.50	5				18.00	7.00	20.50	5.00	9.50	15	20	RAMP 25 MPH	
RAMP G	22+00	L	G-(W13-3)	2.00	2.50	5				18.00	7.00	20.50	5.00	9.50	15	20	RAMP 25 MPH	
RAMP G	25+00	L	G-(W9-1)	2.50	2.50	6.25				18.00	7.00	21.13	5.00	9.50	15	20	LEFT LANE ENDS	
RAMP G	27+10	L	G-(W9-2)	2.50	2.50	6.25				18.00	7.00	21.13	5.00	9.50	15	20	LANE ENDS MERGE RIGHT	
RAMP G2	31+90	R	G2-(W13-2)	2.00	2.50	5				18.00	7.00	20.50	5.00	9.50	15	20	EXIT 25 MPH	
RAMP G2	34+00	R	G2-(W13-3)	2.00	2.50	5				18.00	7.00	20.50	5.00	9.50	15	20	RAMP 25 MPH	
RAMP G2	36+00	R	G2-(W1-4)	2.50	2.50	6.25				18.00	7.00	21.13	5.00	9.50	15	20	REVERSE CURVE Symbol	
RAMP H	5+00	R	H-(W13-3)	2.00	2.50	5				18.00	7.00	20.50	5.00	9.50	15	20	RAMP 25 MPH	
CONTINUE ONTO NEXT SHEET																		

SIGN SCHEDULE						IDOT										REMARKS	
						SIGN PANEL - TYPE 1	SIGN PANEL - TYPE 2	REMOVE SIGN PANEL - TYPE 1	REMOVE SIGN PANEL - TYPE 2	Pvmt Mt L=Top/sign to 3' below gd(+4.5' more for TS) Grd Mt L=Top/sign to 5' below gd (+5' more for TS)			TELESOPING STL SGN SPT 4" x 6" OR (2" x 2") (LIN FT)				
DIST (H) EOP-SIGN	DIST (V) EOP-SIGN BOT.	DIST (H) EOP-POST	TELESOPING STL SGN SPT		TELES STL SIN SUPPORT												
ROADWAY	STATION	BEGIN OFFSET	TYPE	WIDTH (FT)	HEIGHT (FT)	72000100 SQ FT	72000200 SQ FT	72400310 SQ FT	72400320 SQ FT	6'-C&G 18'-SHLD. A-A	5'-MULTI-SIGN 7'-NORM B-B	C-C	P1 FOOT	P2	P1+P2 FOOT		72800100 FOOT
CONTINUE ON PREVIOUS SHEET																	
RAMP I	4+25	R	I-(M4-5)	2.00	1.00	2				18.00	7.38	19.00	5.00	8.38	13	18	TO
RAMP I	4+25	R	I-(M1-1)	2.50	2.00	5				18.00	6.88	20.50	5.00	8.88	14	19	INTERSTATE 294 SHIELD
RAMP I	4+25	R	I-(M6-1)	1.75	1.25	2.19				18.00	5.00	19.10	5.00	6.25	11	16	RIGHT ARROW SYMBOL
RAMP I	4+25	R	I-(M3-4)	2.00	1.00	2				18.00	9.88	19.00	5.00	10.88	16	21	WEST
RAMP I	4+25	R	I-(M1-4)	2.00	2.00	4				18.00	8.88	20.00	5.00	10.88	16	21	ROUTE 12
RAMP I	4+25	R	I-(M1-4)	2.00	2.00	4				18.00	6.88	20.00	5.00	8.88	14	19	ROUTE 20
RAMP I	4+25	R	I-(M6-1)	1.75	1.25	2.19				18.00	5.00	19.10	5.00	6.25	11	16	RIGHT ARROW SYMBOL
RAMP I	2+50	R	I-(W13-2)	2.00	2.50	5				18.00	7.00	20.50	5.00	9.50	15	20	EXIT 25 MPH
RAMP I	3+00	R	I-(R3-2)	2.00	2.00	4				18.00	7.00	20.00	5.00	9.00	14	19	NO LEFT TURN SYMBOL
RAMP I	5+20	R	I-(W11-2)	2.50	2.50	6.25				18.00	7.00	21.13	5.00	9.50	15	20	PEDESTRIAN SYMBOL
RAMP I	6+95	R	I-(W13-3)	2.00	2.50	5				18.00	7.00	20.50	5.00	9.50	15	20	RAMP 25 MPH
RAMP I	9+75	L	I-(W1-8)	1.00	1.50	1.5				18.00	7.00	18.75	5.00	8.50	14	19	CHEVRON ALIGN. - SYMBOL
RAMP I	10+25	L	I-(W1-8)	1.00	1.50	1.5				18.00	7.00	18.75	5.00	8.50	14	19	CHEVRON ALIGN. - SYMBOL
RAMP I	10+75	L	I-(W1-8)	1.00	1.50	1.5				18.00	7.00	18.75	5.00	8.50	14	19	CHEVRON ALIGN. - SYMBOL
RAMP I	11+25	L	I-(W1-8)	1.00	1.50	1.5				18.00	7.00	18.75	5.00	8.50	14	19	CHEVRON ALIGN. - SYMBOL
RAMP J	0+40	R	J-(R3-5)	2.50	3.00	7.5				18.00	7.00	21.75	5.00	10.00	15	20	RT ARROW ONLY
RAMP J	1+39	R	J-(W13-2)	2.00	2.50	5				18.00	7.00	20.50	5.00	9.50	15	20	EXIT 35 MPH
RAMP J	3+60	R	J-(M6-1)	1.75	1.25	2.19				18.00	5.00	19.10	5.00	9.25	14	19	RIGHT ARROW SYMBOL
RAMP J	3+60	R	J-(M1-1)	2.50	2.00	5				--	--	--	--	--	--	--	INTERSTATE 294 SHIELD - COMB. W/ OTHER SIGN
RAMP J	3+60	R	J-(M3-1)	2.00	1.00	2				--	--	--	--	--	--	--	NORTH - COMB. W/ OTHER SIGN
RAMP J	6+89	R	J-(W13-3)	2.00	2.50	5				18.00	7.00	20.50	5.00	9.50	15	20	RAMP 35 MPH
PUMP ACCESS RD.	9+50	R	PAR-(R1-1)	2.50	2.50	6.25				18.00	5.00	21.13	5.00	7.50	13	18	STOP
PUMP ACCESS RD.	9+50	R	PAR (R6 3A)	2.00	1.50	3				18.00	5.00	19.50	5.00	6.50	12	17	DIVIDED HIGHWAY AHEAD
PUMP ACCESS RD.	9+50	R	PAR-(R6-1R)	1.75	1.25	2.19				18.00	5.00	19.10	5.00	6.25	11	16	ONE WAY ARROW - RIGHT
PUMP ACCESS RD.	9+60	L	PAR-(R3-5)	2.50	3.00	7.5				18.00	7.00	21.75	5.00	10.00	15	20	RIGHT ARROW ONLY
PUMP ACCESS RD.	11+00	R	PAR-(R1-1)	2.50	2.50	6.25				18.00	5.00	21.13	5.00	7.50	13	18	STOP
PUMP ACCESS RD.	11+00	R	N/A	1.00	0.67	0.67				--	--	--	--	--	--	--	AUTHORIZED PERSONNEL ONLY
FRONTAGE ROAD	314+00	R	W14-2P	1.50	0.50	0.75				6.00	7.00	6.38	5.00	7.50	13	18	NO OUTLET
ESTIMATE									550	12.5							
TOTAL						640	13	550	13							2,511	



FILE NAME = ...1D160R49_sht_Sign_1.dgn <b>THE HOH GROUP, INC.</b> <small>ARCHITECTS   ENGINEERS</small>	USER NAME = KSUMRAK	DESIGNED - AAF	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>SIGNING PLAN</b>	F.A.P. RTE. 29 & 348	SECTION 3128-Z1-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 269
	PLOT SCALE = N/A	CHECKED - BAP	REVISED -							
PN: 3730	PLOT DATE = 11/30/2023	DATE -	REVISED -				ILLINOIS FED. AID PROJECT	<b>SIGN-1</b>		



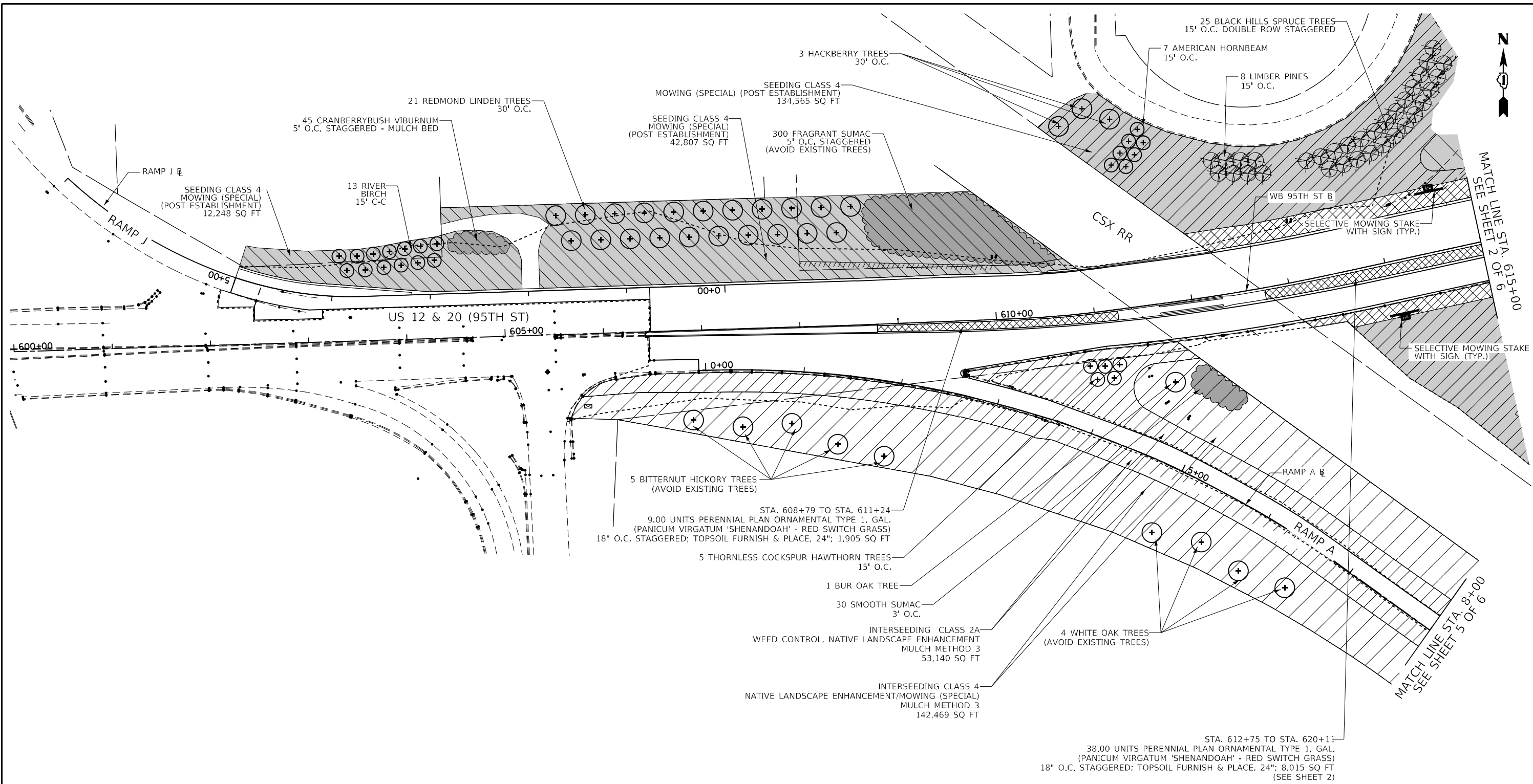


FILE NAME = ...1D160R49_sht_Sign_2.dgn	USER NAME = KSUNRAK	DESIGNED - AAF	REVISED -
<b>THE HOH GROUP, INC.</b> ARCHITECTS   ENGINEERS	PLOT SCALE = N/A	DRAWN - AAF	REVISED -
PN: 3730	PLOT DATE = 11/30/2023	CHECKED - BAP	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SIGNING PLAN</b>			
SCALE: 1"=100'	SHEET NO. 2 OF 2 SHEETS	STA. N/A	TO STA. N/A

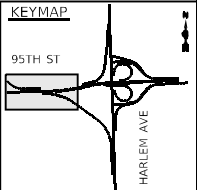
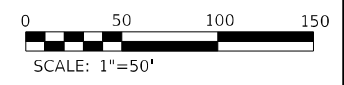
F.A.P. RTE. 29 & 348	SECTION 3128-Z4-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 270
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



**LANDSCAPING LEGEND**

- SHRUBS
- PERENNIAL PLANTS, BULB TYPE  
TOPSOIL FURNISH & PLACE, 24"
- PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON\*  
TOPSOIL FURNISH & PLACE, 24"
- SEEDING CLASS 2A, TOPSOIL FURNISH & PLACE; 4", 8", OR 24" (REFER TO CALLOUTS)  
EROSION CONTROL BLANKET (TYP.)
- PERENNIAL PLANT, PRAIRIE TYPE PLUGS \*  
(PLUG INTO EXISTING SEED/BLANKET)
- INTERSEEDING CLASS 2A  
WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT  
MULCH METHOD 3
- INTERSEEDING CLASS 4  
NATIVE LANDSCAPE ENHANCEMENT/MOWING (SPECIAL)  
MULCH METHOD 3
- SEEDING CLASS 4  
MOWING (SPECIAL) (POST ESTABLISHMENT)
- SEEDING WETLAND GRASS/RUSH/SEDGE -  
SEEDING CLASS 4B  
WEED CONTROL AQUATIC (PRE-TREATMENT)  
PERENNIAL PLANTS, WETLAND PLUGS\*, 24" O.C.  
(PLUG INTO EXISTING SEED/BLANKET)
- PROPOSED SHADE TREE

- EXISTING SHADE TREE  
(USE 'TREE TRUNK PROTECTION')
- PROPOSED EVERGREEN/PINE TREE
- SELECTIVE MOWING STAKE WITH SIGN  
(SYMBOL NOT TO SCALE)
- TREE CARE
- \* = COARSE SAND PLACEMENT, 4"



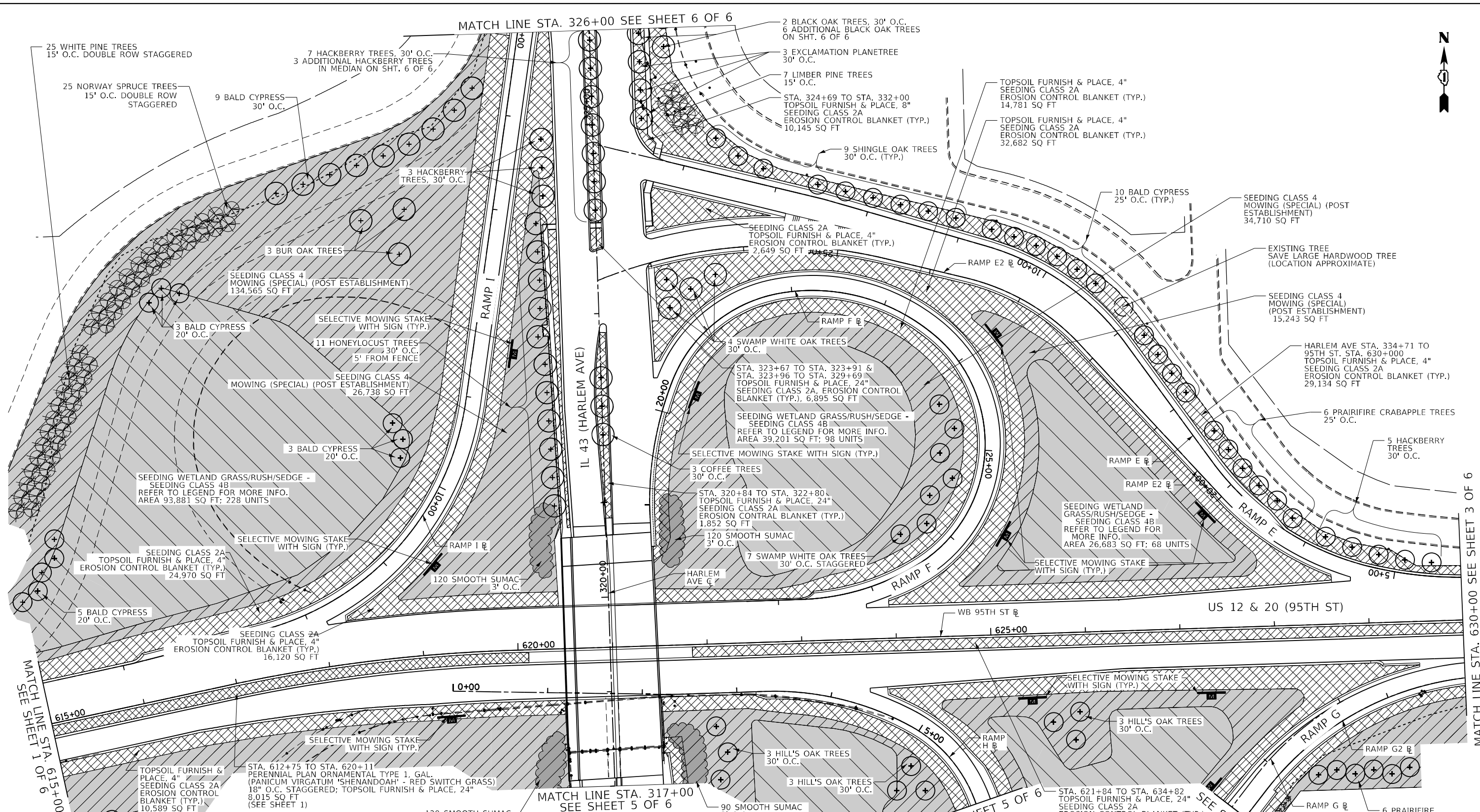
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<b>THE HOH GROUP, INC.</b> ARCHITECTS   ENGINEERS	PLOT SCALE = N/A	DRAWN - AAF	REVISED -
PN: 3730	PLOT DATE = 11/30/2023	CHECKED - BAP	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN**  
**US 12 & 20 (95TH STREET) - STA. 600+00 TO STA. 615+00**

SCALE: 1"=50'    SHEET NO. 1 OF 6 SHEETS    STA. 600+00.00 TO STA. 615+00.00

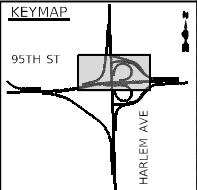
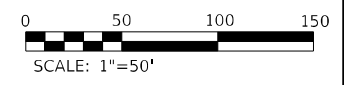
F.A.P. RTE. 29 & 348	SECTION 3128-Z1-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 271
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60R49	



**LANDSCAPING LEGEND**

- SHRUBS
- PERENNIAL PLANTS, BULB TYPE, TOPSOIL FURNISH & PLACE, 24"
- PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON\* TOPSOIL FURNISH & PLACE, 24"
- SEEDING CLASS 2A, TOPSOIL FURNISH & PLACE; 4", 8", OR 24" (REFER TO CALLOUTS) EROSION CONTROL BLANKET (TYP.)
- PERENNIAL PLANT, PRAIRIE TYPE PLUGS\* (PLUG INTO EXISTING SEED/BLANKET)
- INTERSEEDING CLASS 2A WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT MULCH METHOD 3
- INTERSEEDING CLASS 4 NATIVE LANDSCAPE ENHANCEMENT/MOWING (SPECIAL) MULCH METHOD 3
- SEEDING CLASS 4 MOWING (SPECIAL) (POST ESTABLISHMENT)
- SEEDING WETLAND GRASS/RUSH/SEDGE - SEEDING CLASS 4B WEED CONTROL AQUATIC (PRE-TREATMENT) PERENNIAL PLANTS, WETLAND PLUGS\*, 24" O.C. (PLUG INTO EXISTING SEED/BLANKET)
- PROPOSED SHADE TREE

- EXISTING SHADE TREE (USE 'TREE TRUNK PROTECTION')
- PROPOSED EVERGREEN/PINE TREE
- SELECTIVE MOWING STAKE WITH SIGN (SYMBOL NOT TO SCALE)
- TREE CARE
- \* = COARSE SAND PLACEMENT, 4"



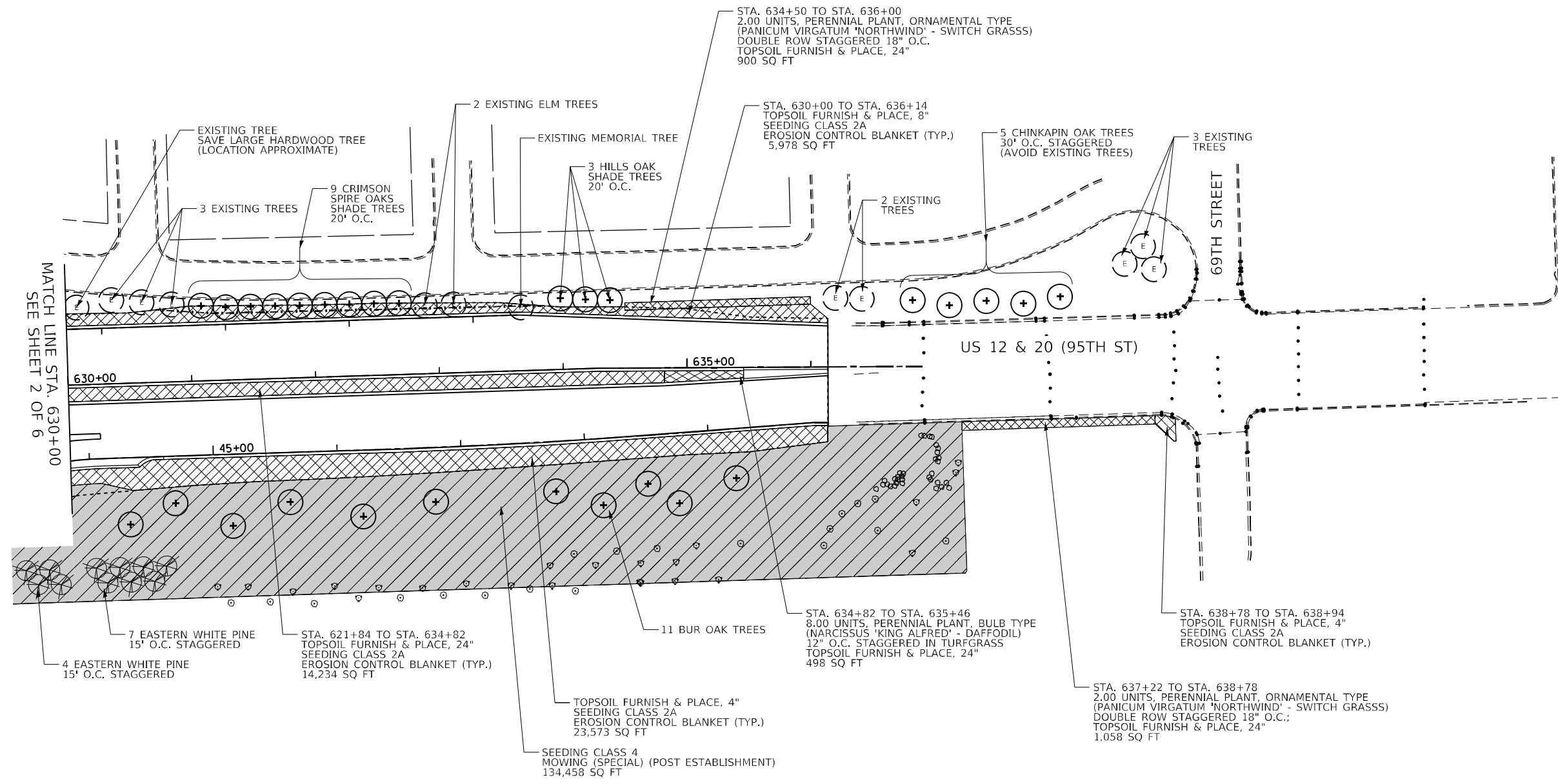
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<b>THE HOH GROUP, INC.</b>		DRAWN - AAF	REVISED -
ARCHITECTS   ENGINEERS		CHECKED - BAP	REVISED -
PN: 3730	PLOT DATE = 11/30/2023	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN  
US 12 & 20 (95TH STREET) - STA. 615+00 TO STA. 630+00**

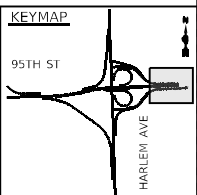
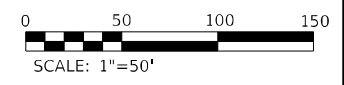
SCALE: 1"=50'    SHEET NO. 2 OF 6 SHEETS    STA. 615+00.00 TO STA. 630+00.00

F.A.P. RTE. 29 & 348	SECTION 3128-Z1-R&R5	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 272
CONTRACT NO. 60R49				ILLINOIS FED. AID PROJECT



**LANDSCAPING LEGEND**

- SHRUBS
- PERENNIAL PLANTS, BULB TYPE  
TOPSOIL FURNISH & PLACE, 24"
- PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON\*  
TOPSOIL FURNISH & PLACE, 24"
- SEEDING CLASS 2A, TOPSOIL FURNISH & PLACE; 4", 8", OR 24" (REFER TO CALLOUTS)  
EROSION CONTROL BLANKET (TYP.)
- PERENNIAL PLANT, PRAIRIE TYPE PLUGS \*  
(PLUG INTO EXISTING SEED/BLANKET)
- INTERSEEDING CLASS 2A  
WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT  
MULCH METHOD 3
- INTERSEEDING CLASS 4  
NATIVE LANDSCAPE ENHANCEMENT/MOWING (SPECIAL)  
MULCH METHOD 3
- SEEDING CLASS 4  
MOWING (SPECIAL) (POST ESTABLISHMENT)
- SEEDING WETLAND GRASS/RUSH/SEDGE -  
SEEDING CLASS 4B  
WEED CONTROL AQUATIC (PRE-TREATMENT)  
PERENNIAL PLANTS, WETLAND PLUGS\*, 24" O.C.  
(PLUG INTO EXISTING SEED/BLANKET)
- PROPOSED SHADE TREE
- EXISTING SHADE TREE  
(USE 'TREE TRUNK PROTECTION')
- PROPOSED EVERGREEN/PINE TREE
- SELECTIVE MOWING STAKE WITH SIGN  
(SYMBOL NOT TO SCALE)
- TREE CARE
- \* = COARSE SAND PLACEMENT, 4"



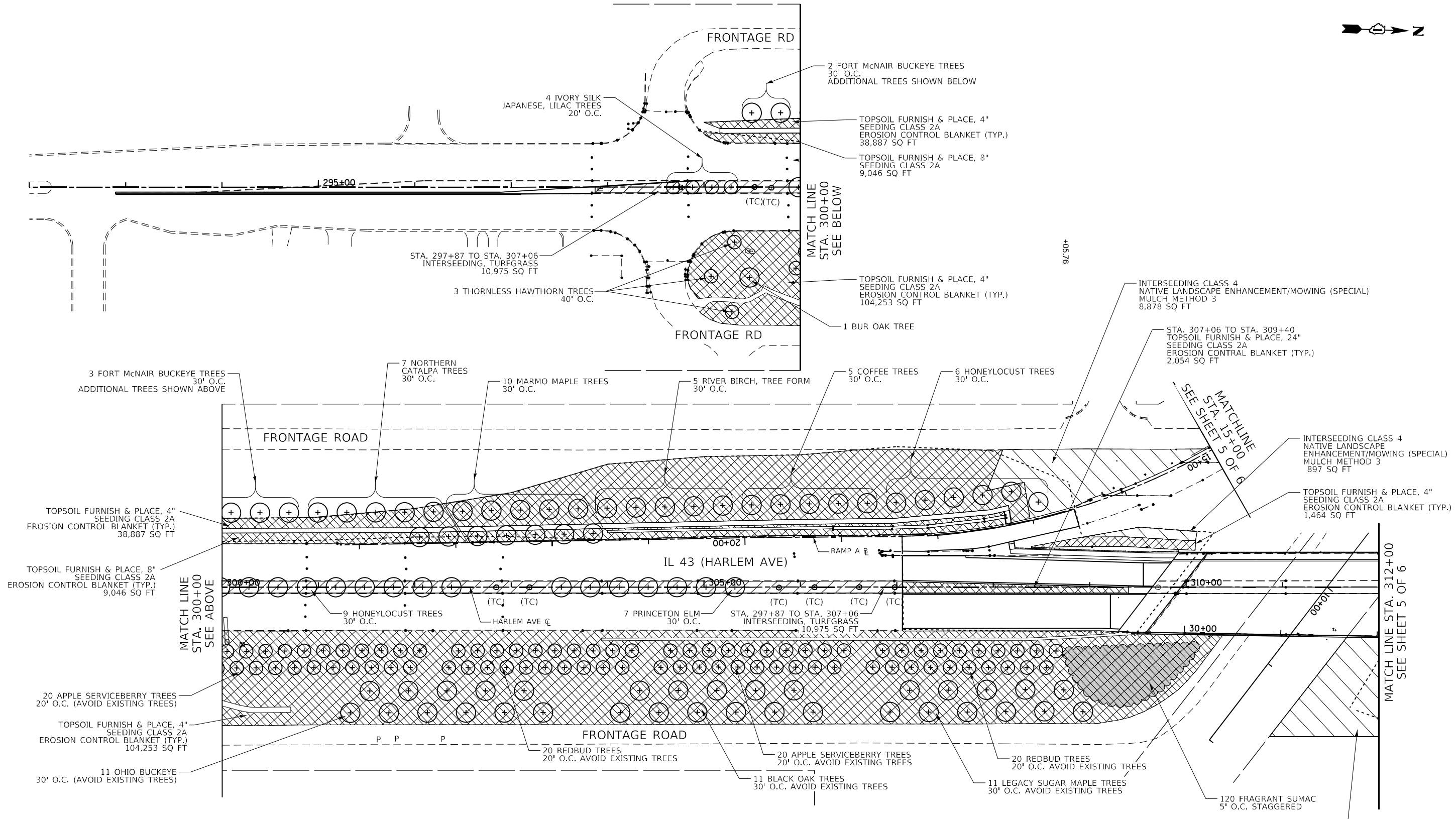
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<b>THE HOH GROUP, INC.</b> <small>ARCHITECTS   ENGINEERS</small>	PLOT SCALE = N/A	DRAWN - AAF	REVISED -
PN: 3730	PLOT DATE = 11/30/2023	CHECKED - BAP	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN  
US 12 & 20 (95TH STREET) - STA. 630+00 TO STA. 636+00**

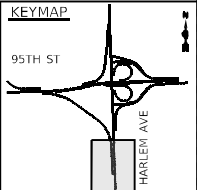
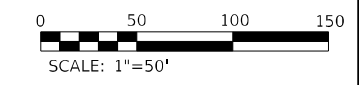
SCALE: 1"=50'    SHEET NO. 3 OF 6 SHEETS    STA. 630+00.00 TO STA. 636+00.00

F.A.P. RTE. 29 & 348	SECTION 3128-Z-1-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 273
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				

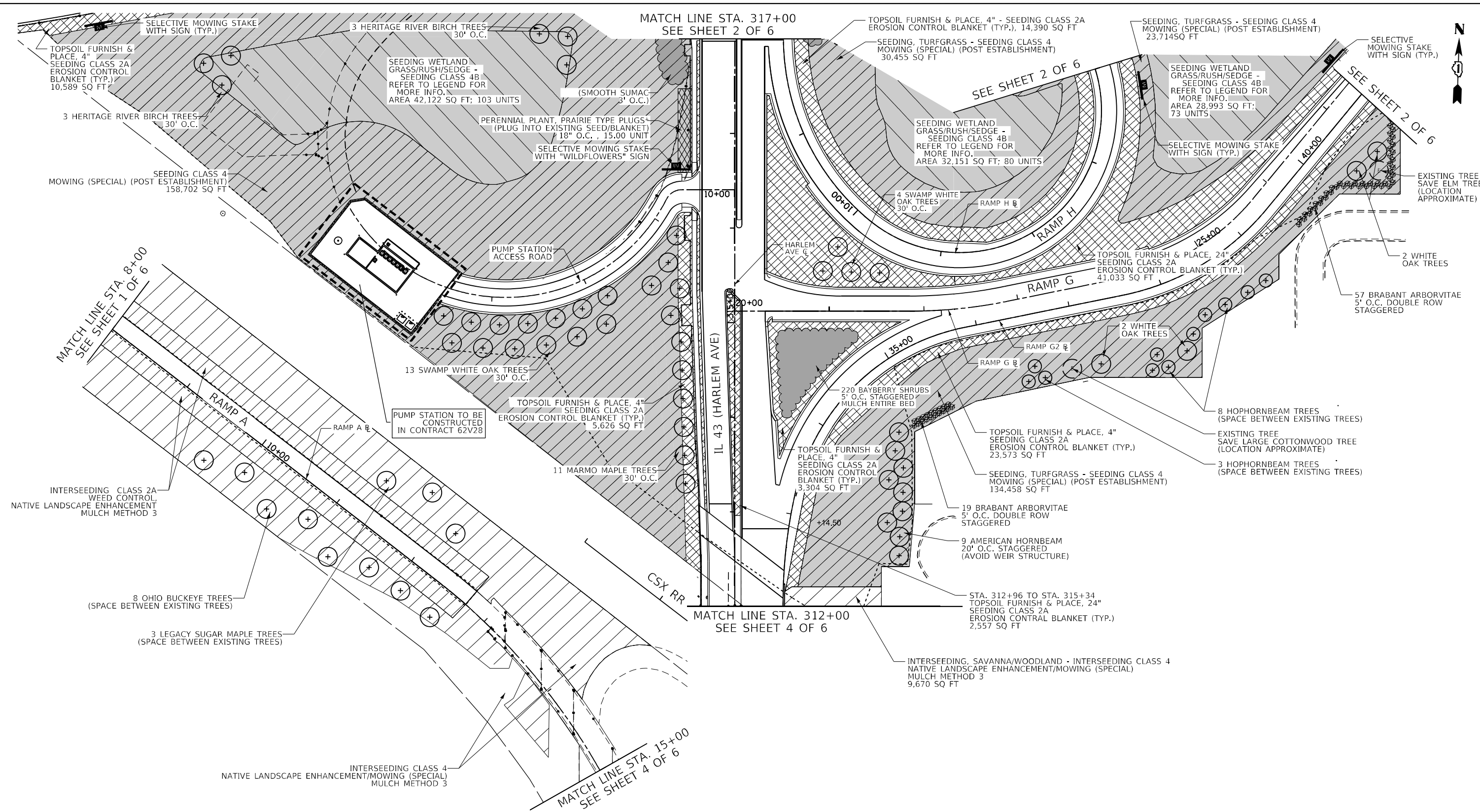


**LANDSCAPING LEGEND**

	SHRUBS		PERENNIAL PLANT, PRAIRIE TYPE PLUGS * (PLUG INTO EXISTING SEED/BLANKET)		SEEDING CLASS 4 MOWING (SPECIAL) (POST ESTABLISHMENT)		EXISTING SHADE TREE (USE 'TREE TRUNK PROTECTION')
	PERENNIAL PLANTS, BULB TYPE, TOPSOIL FURNISH & PLACE, 24"		INTERSEEDING CLASS 2A WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT MULCH METHOD 3		SEEDING WETLAND GRASS/RUSH/SEDGE - SEEDING CLASS 4B WEED CONTROL AQUATIC (PRE-TREATMENT) PERENNIAL PLANTS, WETLAND PLUGS*, 24" O.C. (PLUG INTO EXISTING SEED/BLANKET)		PROPOSED EVERGREEN/PINE TREE
	PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON* TOPSOIL FURNISH & PLACE, 24"		INTERSEEDING CLASS 4 NATIVE LANDSCAPE ENHANCEMENT/MOWING (SPECIAL) MULCH METHOD 3		(TC)	SELECTIVE MOWING STAKE WITH SIGN (SYMBOL NOT TO SCALE)	TREE CARE
	SEEDING CLASS 2A, TOPSOIL FURNISH & PLACE; 4", 8", OR 24" (REFER TO CALLOUTS) EROSION CONTROL BLANKET (TYP.)		(+ OR +)	PROPOSED SHADE TREE			



FILE NAME = ...1D160R49_sht_Landscape04.dgn	USER NAME = KSUMRAK	DESIGNED - AAF	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LANDSCAPING PLAN IL 43 (HARLEM AVENUE) - STA. 298+00 TO STA. 309+30</b>			F.A.P. RTE. = 29 & 348	SECTION = 3128-Z1-R&RS	COUNTY = COOK	TOTAL SHEETS = 659	SHEET NO. = 274
<b>THE HOH GROUP, INC.</b> ARCHITECTS   ENGINEERS	PLOT SCALE = N/A	DRAWN - AAF	REVISED -		SCALE: 1"=50'	SHEET NO. = 4 OF 6 SHEETS	STA. N/A	TO STA. 309+30.00	CONTRACT NO. 60R49			
PN: 3730	PLOT DATE = 11/30/2023	CHECKED - BAP	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									

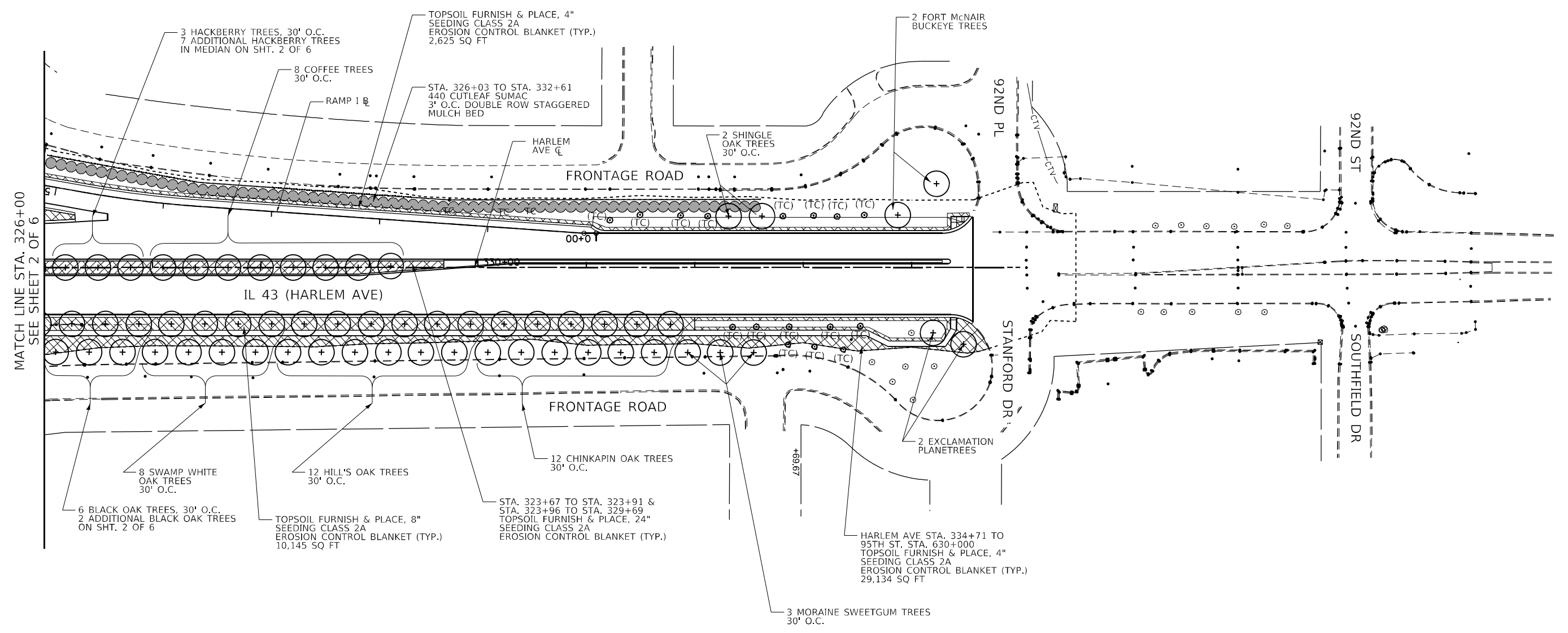


**LANDSCAPING LEGEND**


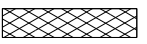
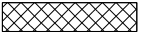


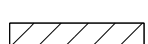
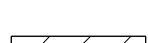
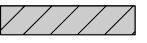

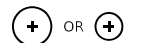




	SHRUBS		PERENNIAL PLANT, PRAIRIE TYPE PLUGS * (PLUG INTO EXISTING SEED/BLANKET)		SEEDING CLASS 4 MOWING (SPECIAL) (POST ESTABLISHMENT)		EXISTING SHADE TREE (USE 'TREE TRUNK PROTECTION')
	PERENNIAL PLANTS, BULB TYPE, TOPSOIL FURNISH & PLACE, 24"		INTERSEEDING CLASS 2A WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT MULCH METHOD 3		SEEDING WETLAND GRASS/RUSH/SEDGE - SEEDING CLASS 4B WEED CONTROL AQUATIC (PRE-TREATMENT) PERENNIAL PLANTS, WETLAND PLUGS*, 24" O.C. (PLUG INTO EXISTING SEED/BLANKET)		PROPOSED EVERGREEN/PINE TREE
	PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON* TOPSOIL FURNISH & PLACE, 24"		INTERSEEDING CLASS 4 NATIVE LANDSCAPE ENHANCEMENT/MOWING (SPECIAL) MULCH METHOD 3		PROPOSED SHADE TREE		SELECTIVE MOWING STAKE WITH SIGN (SYMBOL NOT TO SCALE)
	SEEDING CLASS 2A, TOPSOIL FURNISH & PLACE, 4", 8", OR 24" (REFER TO CALLOUTS) EROSION CONTROL BLANKET (TYP.)				TREE CARE		* = COARSE SAND PLACEMENT, 4"

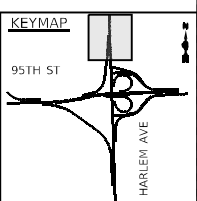
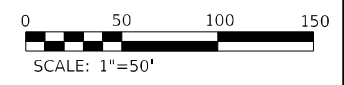
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SCALE: 1"=50'    SHEET NO. 5 OF 6 SHEETS    STA. 309+30.00 TO STA. 317+50.00



**LANDSCAPING LEGEND**

-  SHRUBS
-  PERENNIAL PLANTS, BULB TYPE, TOPSOIL FURNISH & PLACE, 24"
-  PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON\* TOPSOIL FURNISH & PLACE, 24"
-  SEEDING CLASS 2A, TOPSOIL FURNISH & PLACE; 4", 8", OR 24" (REFER TO CALLOUTS) EROSION CONTROL BLANKET (TYP.)
-  PERENNIAL PLANT, PRAIRIE TYPE PLUGS \* (PLUG INTO EXISTING SEED/BLANKET)
-  INTERSEEDING CLASS 2A WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT MULCH METHOD 3
-  INTERSEEDING CLASS 4 NATIVE LANDSCAPE ENHANCEMENT/MOWING (SPECIAL) MULCH METHOD 3
-  SEEDING CLASS 4 MOWING (SPECIAL) (POST ESTABLISHMENT)
-  SEEDING WETLAND GRASS/RUSH/SEDGE - SEEDING CLASS 4B WEED CONTROL AQUATIC (PRE-TREATMENT) PERENNIAL PLANTS, WETLAND PLUGS\*, 24" O.C. (PLUG INTO EXISTING SEED/BLANKET)
-  PROPOSED SHADE TREE
-  EXISTING SHADE TREE (USE 'TREE TRUNK PROTECTION')
-  PROPOSED EVERGREEN/PINE TREE
-  SELECTIVE MOWING STAKE WITH SIGN (SYMBOL NOT TO SCALE)
-  TREE CARE
- \* = COARSE SAND PLACEMENT, 4"



FILE NAME = ...1D160R49_sht_Landscape.dgn <b>THE HOH GROUP, INC.</b> <small>ARCHITECTS   ENGINEERS</small>	USER NAME = KSUMRAK PLOT SCALE = N/A PLOT DATE = 11/30/2023	DESIGNED - AAF DRAWN - AAF CHECKED - BAP DATE -	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>LANDSCAPING PLAN</b> <b>IL 33 (HARLEM AVENUE) - STA. 326+00 TO STA. 335+00</b> SCALE: 1"=50'	F.A.P. RTE. 29 & 348 SECTION 3128-Z-1-R&RS COUNTY COOK TOTAL SHEETS 659 SHEET NO. 276 CONTRACT NO. 60R49 ILLINOIS FED. AID PROJECT
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LOCATION AREA REFER TO MAP ON THIS SHEET	PLAN SHEET	LOCATION DESCRIPTION	PLAN SHEET SQ FT	IDOT																					
				DOUBLE HATCH 5' & 10' AREA - NOT FILLED OR PERENNIAL AREA					SINGLE HATCH 10' AREA - NOT FILLED			SINGLE HATCH 15' AREA - NOT FILLED				SING. 10' AREA - FILLED				SINGLE HATCH 20' AREA - FILLED (PLUG INTO EXISTING SEED/BLANKET)			FERTILIZER FOR SEEDING CLASS 2A		
				SEEDING CLASS 2A	TOPSOIL FURNISH & PLACE, 4"	TOPSOIL FURNISH & PLACE, 8"	TOPSOIL FURNISH & PLACE, 24"	EROSION CONTRAL BLANKET (TYP.)	INTER-SEEDING CLASS 2A	WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT	MULCH METHOD 3	INTER-SEEDING CLASS 4	WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT	MOWING (SPECIAL)	MULCH METHOD 3	SEEDING CLASS 4	MOWING (SPECIAL) (POST ESTABLISH.)	SEEDING WETLAND GRASS/RUSH/SEEDGE - SEEDING CLASS 4B	PERENNIAL PLANTS, WETLAND TYPE, 2" DIAMETER BY 4" DEEP PLUG	WEED CONTROL AQUATIC (PRE-TREATMENT PERENNIAL PLANTS, WETLAND PLUGS*, 24" O.C.	NITROGEN FERT NUTR	PHOSPHORUS FERT NUTR	POTASSIUM FERT NUTR		
				25000210	21101615	21101630	21101685	25100630	25003210	X0327120	25100125	25003310	X0327120	X2503110	25100125	25003310	X2503110	25000314	K0013030	K0029614	25000400	25000500	25000600		
A	1, 4 & 5	AROUND RAMP A	142,469																						
A	1 & 5	CLOSEST TO RAMP A	53,140						1.22	1.22	1.22							73.20	73.20	73.20					
SA	4	AROUND SIDEWALK	38,887	0.89	4,321		4,321											53.40	53.40	53.40					
SA	4	BETWEEN SIDEWALK & AVE.	9,046	0.21		1,005	1,005											12.60	12.60	12.60					
SA	4	NORTH OF SIDEWALK	8,878							0.20	0.20	0.20	0.20												
SA	4	SMALL AREA NEAR HARLEM	897							0.02	0.02	0.02	0.02												
SA	4	SMALL AREA NEAR HARLEM	1,464	0.03	163		163											1.80	1.80	1.80					
E	3	ALONG NORTH OF 95TH	5,978	0.14			664											8.40	8.40	8.40					
E	3	STA. 634+50 TO STA 363+00	900				100																		
E	2 & 6	ALONG RAMP E AND NORTH	29,134	0.67	3,237													40.20	40.20	40.20					
E	2 & 6	INSIDE OF SIDEWALK	10,145	0.23		1,127	1,127											13.80	13.80	13.80					
G	4 & 5	SOUTHERN AREA	9,670					0.22	0.22	0.22								13.20	13.20	13.20					
G	2, 3, & 5	ALONG RAMP G	23,573	0.54	2,619		2,619											32.40	32.40	32.40					
G	2, 3, & 5	OUTSIDE OF RAMP G	134,458											3.09	3.09										
G	3	95TH & 69TH ST.	230	0.01	26		26											0.60	0.60	0.60					
G	3	STA. 637+22 TO STA. 638+78	1,058				118																		
G	5	ISLAND	3,304	0.08	367		367											4.80	4.80	4.80					
SG	4	WHOLE AREA	104,253	2.39	11,584		11,584											143.40	143.40	143.40					
J	1	RAMP J TO GRAVEL DRIVE	12,248											0.28	0.28										
J	1	GRAVEL DRIVE TO RR	42,807											0.98	0.98										
NW	1, 2 & 6	AROUND POND	134,565											3.09	3.09										
NW	1, 2 & 6	N. OF RAMP I	24,970	0.57	2,774		2,774											34.20	34.20	34.20					
NW	2	BOTTOM OF POND	93,881													2.16	228	4.7							
NW	2 & 6	S. OF RAMP I	16,120	0.37	1,791		1,791											22.20	22.20	22.20					
NW	2	RAMP I TO HARLEM AVE.	26,738											0.61	0.61										
NW	6	ALONG NW HARLEM AVE.	2,625	0.06	292		292											3.60	3.60	3.60					
NE	2	ISLAND	2,649	0.06	294		294											3.60	3.60	3.60					
NE	2	INSIDE RAMP F	14,781	0.34	1,642		1,642											20.40	20.40	20.40					
NE	2	MIDDLE OF RAMP F	34,710											0.80	0.80										
NE	2	BOTTOM OF CIRCLE POND	39,201													0.90	98	2.0							
NE	2	INSIDE RAMP E	32,682	0.75	3,631		3,631											45.00	45.00	45.00					
NE	2	MIDDLE OF RAMP E	15,243											0.35	0.35										
NE	2	BOTTOM OF TRI. POND	26,683													0.61	68	1.3							

CONTINUE ON NEXT SHEET

LANDSCAPING LEGEND

- SHRUBS
- PERENNIAL PLANTS, BULB TYPE, TOPSOIL FURNISH & PLACE, 24"
- PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON\* TOPSOIL FURNISH & PLACE, 24"
- SEEDING CLASS 2A, TOPSOIL FURNISH & PLACE: 4", 8", OR 24" (REFER TO CALLOUTS) EROSION CONTROL BLANKET (TYP.)
- PERENNIAL PLANTS, PRAIRIE TYPE PLUGS \* (PLUG INTO EXISTING SEED/BLANKET)
- INTERSEEDING CLASS 2A  
WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT  
MULCH METHOD 3
- INTERSEEDING CLASS 4  
NATIVE LANDSCAPE ENHANCEMENT/MOWING (SPECIAL)  
MULCH METHOD 3
- SEEDING CLASS 4  
MOWING (SPECIAL) (POST ESTABLISHMENT)
- SEEDING WETLAND GRASS/RUSH/SEEDGE - SEEDING CLASS 4B  
WEED CONTROL AQUATIC (PRE-TREATMENT) PERENNIAL PLANTS, WETLAND PLUGS\*, 24" O.C. (PLUG INTO EXISTING SEED/BLANKET)
- PROPOSED SHADE TREE
- EXISTING SHADE TREE (USE 'TREE TRUNK PROTECTION')
- PROPOSED EVERGREEN/PINE TREE
- SELECTIVE MOWING STAKE WITH SIGN (SYMBOL NOT TO SCALE)
- TREE CARE
- \* = COARSE SAND PLACEMENT, 4"

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN SCHEDULE**

F.A.P. RTE. 29 & 348

SECTION 3128-Z-I-R&R5

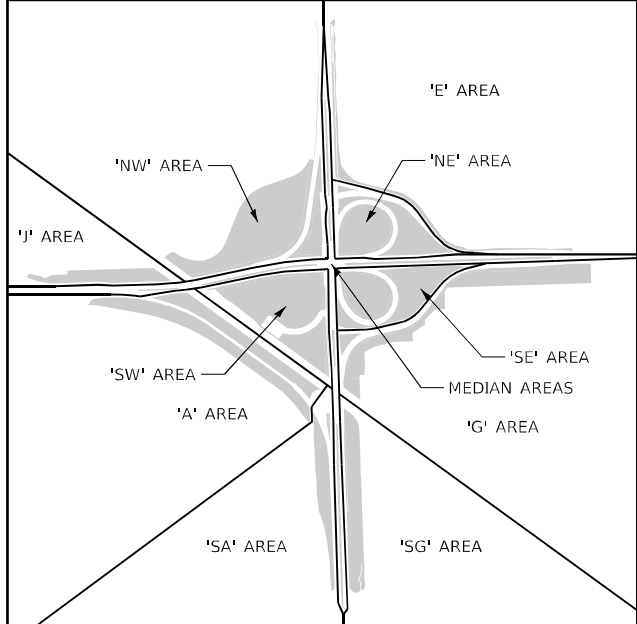
COUNTY COOK

TOTAL SHEETS 659

SHEET NO. 277

CONTRACT NO. 60R49

ILLINOIS FED. AID PROJECT





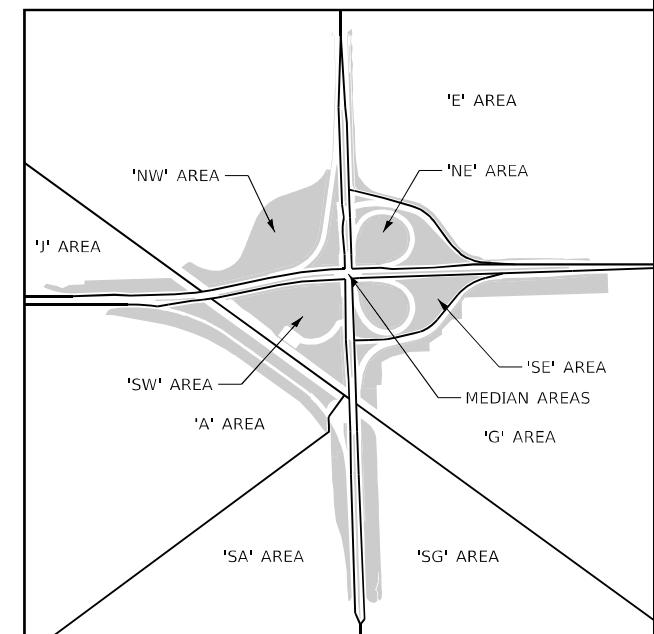
LANDSCAPING SCHEDULE - SEEDING AND ETC. BY AREA				IDOT																				
				DOUBLE HATCH 5' & 10' AREA - NOT FILLED OR PERENNIAL AREA					SINGLE HATCH 10' AREA - NOT FILLED			SINGLE HATCH 15' AREA - NOT FILLED				SING. 10' AREA - FILLED		SINGLE HATCH 20' AREA - FILLED			FERTILIZER FOR SEEDING CLASS 2A			
				SEEDING CLASS 2A	TOPSOIL FURNISH & PLACE, 4"	TOPSOIL FURNISH & PLACE, 8"	TOPSOIL FURNISH & PLACE, 24"	EROSION CONTRAL BLANKET (TYP.)	INTER-SEEDING CLASS 2A	WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT	MULCH METHOD 3	INTER-SEEDING CLASS 4	WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT	MOWING (SPECIAL)	MULCH METHOD 3	SEEDING CLASS 4	MOWING (SPECIAL)	SEEDING WETLAND GRASS/RUSH/SEDGE - SEEDING CLASS 4B	PERENNIAL PLANTS, WETLAND TYPE, 2" DIAMETER BY 4" DEEP PLUG	WEED CONTROL AQUATIC (PRE-TREATMENT PERENNIAL PLANTS, WETLAND PLUGS*, 24" O.C.)	NITROGEN FERT NUTR	PHOSPHORUS FERT NUTR	POTASSIUM FERT NUTR	
REFER TO MAP ON THIS SHEET	PLAN SHEET	LOCATION DESCRIPTION	PLAN SHEET											(POST ESTABLISH.)										
			SQ FT	25000210	21101615	21101630	21101685	25100630	25003210	X0327120	25100125	25003310	X0327120	X2503110	25100125	25003310	X2503110	25000314	K0013030	K0029614	25000400	25000500	25000600	
				ACRE	SQ YD	SQ YD	SQ YD	SQ YD	ACRE	ACRE	ACRE	ACRE	ACRE	ACRE	ACRE	ACRE	ACRE	UNIT	GALLON	POUND	POUND	POUND		
CONTINUE ON PREVIOUS SHEET																								
SW	1 & 2	ALONG 95TH	10,589	0.24	1,177			1,177													14.40	14.40	14.40	
SW	1 & 2	MIDDLE AREA	158,702												3.64	3.64								
SW	2	BOTTOM OF POND	42,122														0.97	103	2.1					
SW	2	ALONG HARLEM	5,626	0.13	625			625													7.80	7.80	7.80	
SE	2 & 5	INSIDE RAMP H	14,390	0.33	1,599			1,599													19.80	19.80	19.80	
SE	2 & 5	MIDDLE OF RAMP H	30,455												0.70	0.70								
SE	2 & 5	BOTTOM OF CIRCLE POND	32,151														0.74	80	1.6					
SE	2 & 5	INSIDE RAMP G	41,033	0.94	4,559			4,559													56.40	56.40	56.40	
SE	2 & 5	MIDDLE OF RAMP G	23,714												0.54	0.54								
SE	2 & 5	BOTTOM OF TRI, POND	28,993														0.67	73	1.4					
95TH MEDIAN	1	STA. 608+79 TO STA. 611+24	1,905				212																	
95TH MEDIAN	1 & 2	STA. 612+75 TO STA. 620+11	8,015				891																	
95TH MEDIAN	2 & 3	STA. 621+84 TO STA. 634+82	14,234	0.33			1,582	1,582													19.80	19.80	19.80	
95TH MEDIAN	3	STA. 634+82 TO STA. 635+46	498				55																	
HARLEM MEDIAN	4	STA. 297+87 TO STA. 307+06	10,975						0.25	0.25	0.25										15.00	15.00	15.00	
HARLEM MEDIAN	4	STA. 307+06 TO STA. 309+40	2,054	0.05			228	228													3.00	3.00	3.00	
HARLEM MEDIAN	5	STA. 312+96 TO STA. 315+34	2,557	0.06			284	284													3.60	3.60	3.60	
HARLEM MEDIAN	2	STA. 320+84 TO STA. 322+80	1,852	0.04			206	206													2.40	2.40	2.40	
HARLEM MEDIAN	2 & 6	STA. 323+67 TO STA. 329+69	6,895	0.16			766	766													9.60	9.60	9.60	
<b>TOTAL</b>				<b>10.00</b>	<b>40,701</b>	<b>2,132</b>	<b>10,600</b>	<b>43,326</b>	<b>2.00</b>	<b>2.00</b>	<b>2.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>14.00</b>	<b>14.00</b>	<b>6.00</b>	<b>650</b>	<b>13</b>	<b>679</b>	<b>679</b>	<b>679</b>	

NOTES:  
 1) REFER TO 'LANDSCAPING SCHEDULE - TREES & SHRUBS, BY UNIT' FOR ADDITIONAL 'MULCH METHOD 3' QUANTITIES

**LANDSCAPING LEGEND**

- SHRUBS
- PERENNIAL PLANTS, BULB TYPE, TOPSOIL FURNISH & PLACE, 24"
- PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON\* TOPSOIL FURNISH & PLACE, 24"
- SEEDING CLASS 2A, TOPSOIL FURNISH & PLACE; 4", 8", OR 24" (REFER TO CALLOUTS) EROSION CONTROL BLANKET (TYP.)
- PERENNIAL PLANT, PRAIRIE TYPE PLUGS \* (PLUG INTO EXISTING SEED/BLANKET)
- INTERSEEDING CLASS 2A WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT MULCH METHOD 3
- INTERSEEDING CLASS 4 NATIVE LANDSCAPE ENHANCEMENT/MOWING (SPECIAL) MULCH METHOD 3
- SEEDING CLASS 4 MOWING (SPECIAL) (POST ESTABLISHMENT)
- SEEDING WETLAND GRASS/RUSH/SEDGE - SEEDING CLASS 4B WEED CONTROL AQUATIC (PRE-TREATMENT) PERENNIAL PLANTS, WETLAND PLUGS\*, 24" O.C. (PLUG INTO EXISTING SEED/BLANKET)
- PROPOSED SHADE TREE

- EXISTING SHADE TREE (USE 'TREE TRUNK PROTECTION')
- PROPOSED EVERGREEN/PINE TREE
- SELECTIVE MOWING STAKE WITH SIGN (SYMBOL NOT TO SCALE)
- TREE CARE
- \* = COARSE SAND PLACEMENT, 4"



LANDSCAPING SCHEDULE - TREES & SHRUBS, BY UNIT		IDOT TREE FORM																						
		MARMO FREEMAN MAPLE	LEGACY SUGAR MAPLE	OHIO BUCKEYE	RIVER BIRCH	HERITAGE RIVER BIRCH	AMERICAN HORNBEAM	BITTERNUT HICKORY	NORTHERN CATALPA	COMMON HACKBERRY	SKYLINE THORNLESS COMMON HONEYLOCUST	KENTUCKY COFFEE TREE	MORAINES SWEETGUM	AMERICAN HOPHORNBEAM	EXCLAMATION LONDON PLANETREE	CRIMSON SPIRE OAK	WHITE OAK	SWAMP WHITE OAK	SHINGLE OAK	BUR OAK	CHINKAPIN OAK	BLACK OAK	COMMON BALD CYPRESS	REDMOND AMERICAN LINDEN
		A2000216 EACH	A2001916 EACH	A2002016 EACH	A2002316 EACH	A2002470 EACH	A2002564 EACH	A2002612 EACH	A2002816 EACH	A2002916 EACH	A2004820 EACH	A2005020 EACH	A2005328 EACH	A2005614 EACH	A2005956 EACH	A2006410 EACH	A2006414 EACH	A2006514 EACH	A2006614 EACH	A2006714 EACH	A2006814 EACH	A2007150 EACH	A2007620 EACH	A2007916 EACH
A	1																							
A	5		3	8													4			1				
SA	4	10			5				7		6	5												
E	3														9						5			
E	2 & 6																					8		
E	6											3		2			8				12			
E	2									5				3				9					10	
G	5									9							4							
G	2 & 5																							
G	3																			11				
G	2																							
SG	4		11	11																1		11		
J	1							13																21
NW	6											8												2
NW	1								7			3												
NW	2										3	11									3			20
NE	2																							
SW	1 & 5																							
SW	5	11				6																		
SW	2 & 5																							
SW	2																							
SE	5																							
SE	2																	4						
95TH MEDIAN	1																							
95TH MEDIAN	1 & 2																							
95TH MEDIAN	3																							
HARLEM MEDIAN	4										9													
HARLEM MEDIAN	2 & 6										10													
HARLEM MEDIAN	2												3											
TOTAL		21	14	19	5	19	16	5	7	21	26	16	3	11	5	9	8	36	11	16	17	19	30	21

NOTES:  
ADDITIONAL 'LANDSCAPING SCHEDULE - TREES & SHRUBS, BY UNIT' QUANTITIES ON NEXT SHEET

LANDSCAPING SCHEDULE - TREES & SHRUBS, BY UNIT		TREE FORM			SHRUB FORM	CLUMP FORM	SHRUB FORM	TREE FORM			SHRUB FORM			EVERGREEN/PINE TREE FORM						MULCH METHOD 3 (REFER OTHER SCHEDULES FOR ADDITIONAL QUANTITIES)	SELECTIVE MOWING STAKES				
V AREA	PLAN SHEET	PRINCETON AMERICAN ELM	FORT MCNAIR RED HORSECHESTNUT	HILL'S OAK	APPLE SERVICEBERRY	EASTERN REDBUD	THORNLESS COCKSPUR HAWTHORN	PRAIRIFIRE CRABAPPLE	IVORY SILK JAPANESE, LILAC	BAYBERRY	FRAGRANT SUMAC	SMOOTH SUMAC	CUTLEAF SUMAC	AMERICAN CRANBERRY-BUSH VIBURNUM	NORWAY SPRUCE	BLACK HILLS SPRUCE	LIMBER PINE	BRABANT ARBORVITAE	EASTERN WHITE PINE	PERENNIAL PLANTS, BULB TYPE	PERENNIAL PLANTS, PRAIRIE TYPE	PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON POT			
		A2008468 EACH	A2012220 EACH	A2016614 EACH	B2000666 EACH	B2001164 EACH	B2001664 EACH	B2004116 EACH	B2006316 EACH	C2C04524 EACH	C2C05718 EACH	C2C05936 EACH	C2006124 EACH	C2012836 EACH	D2001760 EACH	D2001960 EACH	D2002360 EACH		D2002948 EACH	K0012970 UNIT	K0013000 UNIT	K0012990 UNIT	25100125 ACRE	25000775 EACH	
A	1						5					30													
A	5																								
SA	4		5																						
E	3			3																		4			
E	2 & 6			12																					
E	6																7								
E	2																								
G	5									220								19						0.10	
G	2 & 5																	57							
G	3																		11						
G	2							6																	
SG	4				40	40	3				120														
J	1										300			45											
NW	6		2										440											0.12	
NW	1															25	25	8							1
NW	2											120								25					2
NE	2											120													4
SW	1 & 5																								1
SW	5																					15			1
SW	2 & 5											120													1
SW	2																								1
SE	5																								2
SE	2			9								90													2
95TH MEDIAN	1																						9		
95TH MEDIAN	1 & 2																						38		
95TH MEDIAN	3																				8				
HARLEM MEDIAN	4	7							4																
HARLEM MEDIAN	2 & 6																								
HARLEM MEDIAN	2																								
<b>TOTAL</b>		<b>7</b>	<b>7</b>	<b>24</b>	<b>40</b>	<b>40</b>	<b>8</b>	<b>12</b>	<b>4</b>	<b>220</b>	<b>420</b>	<b>480</b>	<b>440</b>	<b>45</b>	<b>25</b>	<b>25</b>	<b>15</b>	<b>76</b>	<b>36</b>	<b>8</b>	<b>15</b>	<b>51</b>	<b>0.22</b>	<b>14</b>	

NOTES:  
 ADDITIONAL 'LANDSCAPING SCHEDULE - TREES & SHRUBS, BY UNIT' QUANTITIES ON PREVIOUS SHEET

TREE REMOVAL (GENERAL)			IDOT						REMARKS
			TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TREE REMOVAL (OVER 15 UNITS DIAMETER)	TREE REMOVAL, ACRES	TREE REMOVAL (UNDER 6 UNITS DIAMETER)	TREE REMOVAL, ACRES (SPECIAL)	SELECTIVE CLEARING	
ROADWAY	STATION	OFFSET	20100110 UNIT	20100210 UNIT	20100500 ACRE	X2010106 UNIT	X2010350 ACRE	Z0064600 ACRE	
VARIABLES	VARIABLES	VARIABLES	50	50	1	50	1	1	
<b>TOTAL</b>			50	50	1	50	1	1	

TREE CARE, TRUNK PROTECTION, AND PRUNING			IDOT					REMARKS
			TREE CARE	TREE TRUNK PROTECTION	TREE PRUNING (1 TO 10 INCH DIAMETER)	TREE PRUNING (OVER 10 INCH DIAMETER)	PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE	
ROADWAY	STATION	OFFSET	K0026700	20101100	20101300	20101350	K1004595	
			EACH	EACH	EACH	EACH	L SUM	
95TH ST.	630+09	LT		1				APPROX. LOCATION
95TH ST.	630+37	LT		1				
95TH ST.	630+61	LT		1				
95TH ST.	630+86	LT		1				
95TH ST.	632+90	LT		1				
95TH ST.	633+13	LT		1				
95TH ST.	633+67	LT		1				
95TH ST.	636+20	LT		1				
95TH ST.	636+41	LT		1				
95TH ST.	638+66	LT		3				
HARLEM AVE.	299+52	CL	1					
HARLEM AVE.	299+70	CL	1					
HARLEM AVE.	302+84	CL	1					
HARLEM AVE.	303+19	CL	1					
HARLEM AVE.	305+78	CL	1					
HARLEM AVE.	306+15	CL	1					
HARLEM AVE.	306+61	CL	1					
HARLEM AVE.	306+98	CL	1					
HARLEM AVE.	331+22	LT	1					
HARLEM AVE.	331+50	LT	1					
HARLEM AVE.	331+87	LT	1					
HARI FM AVE.	332+17	LT	1					
HARLEM AVE.	332+35	RT	1					
HARLEM AVE.	332+57	RT	1					
HARLEM AVE.	332+81	LT	1					
HARLEM AVE.	332+87	RT	2					
HARLEM AVE.	333+10	LT	1					
HARLEM AVE.	333+11	RT	1					
HARLEM AVE.	333+25	RT	1					
HARLEM AVE.	333+31	LT	1					
HARLEM AVE.	333+37	RT	1					
HARLEM AVE.	333+51	RT	1					
HARLEM AVE.	333+56	LT	1					
RAMP E	9+17	RT		1				APPROX. LOCATION
RAMP G2	36+90	RT		1				APPROX. LOCATION
RAMP G2	40+46	RT		1				APPROX. LOCATION
VARIES	VARIES	VAR.			20	20	1	LOCATIONS DETERMINED BY THE ENGINEER
TOTAL			24	15	20	20	1	

# TRAFFIC SIGNAL LEGEND

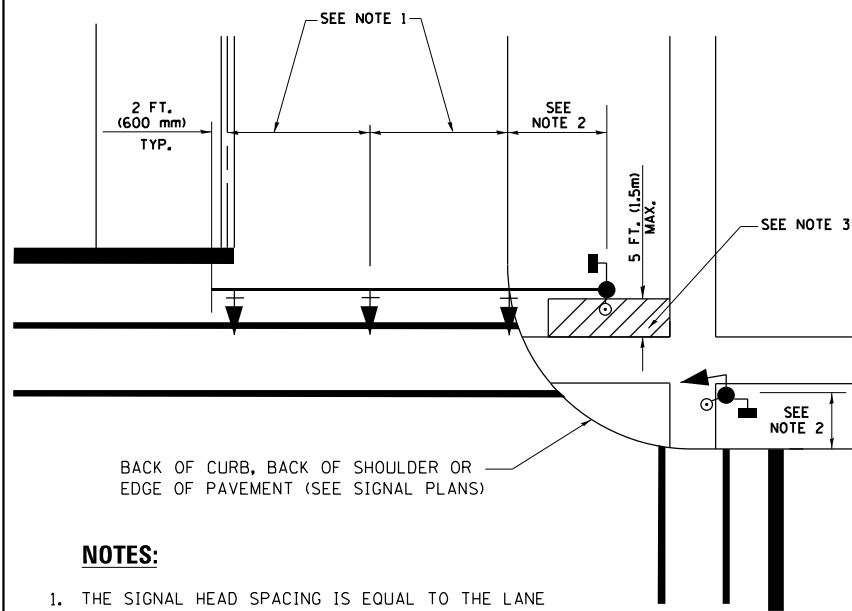
(NOT TO SCALE)

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTABLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	 	 	RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			SYSTEM ITEM	S	SP	FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
WOOD POLE			INTERSECTION ITEM	I	IP	GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE		
GUY WIRE			REMOVE ITEM		R			
SIGNAL HEAD			RELOCATE ITEM		RL			
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM		A			
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF			
FLASHER INSTALLATION -(FS) SOLAR POWERED	 	 	MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF			
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF			
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			DETECTOR LOOP, TYPE I					
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP					
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR					
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR					
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR					
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

TS SHT NO. 1



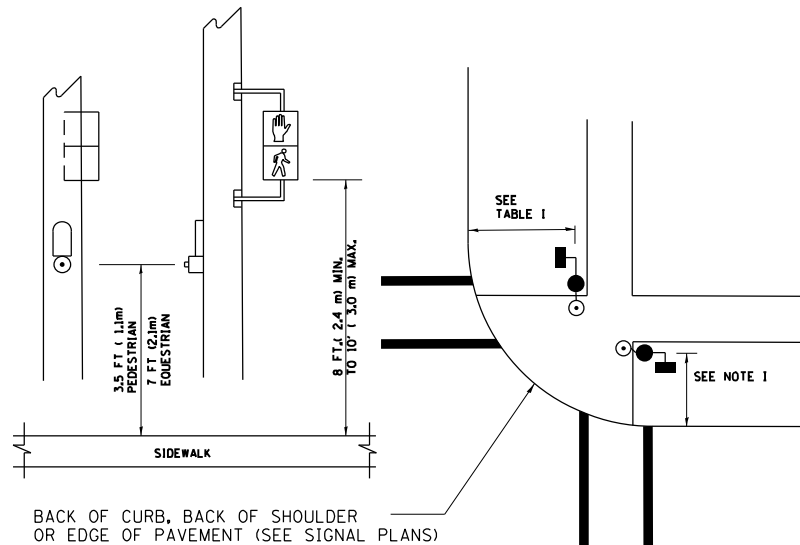
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST  
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR  
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN  
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



**NOTES:**

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

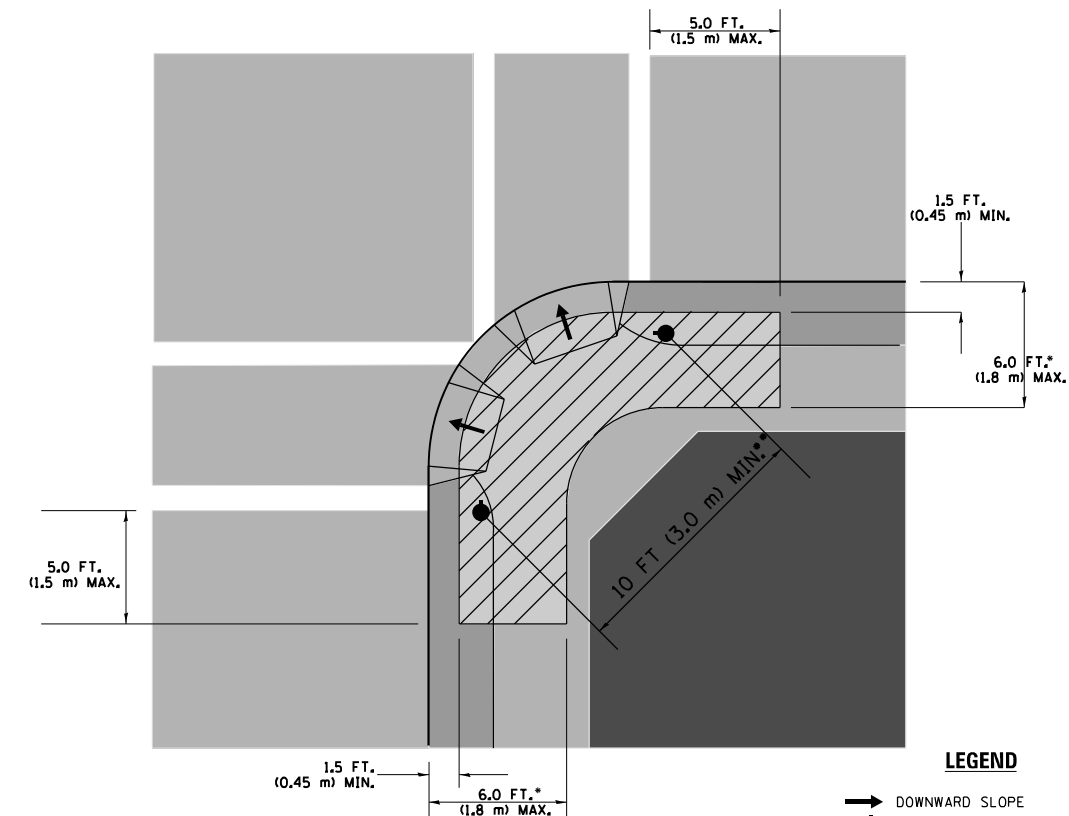
**PEDESTRIAN SIGNAL POST  
AND  
PEDESTRIAN PUSH BUTTON POST**



**NOTES:**

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

**RECOMMENDED PUSHBUTTON LOCATIONS**



**LEGEND**

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

**NOTES:**

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

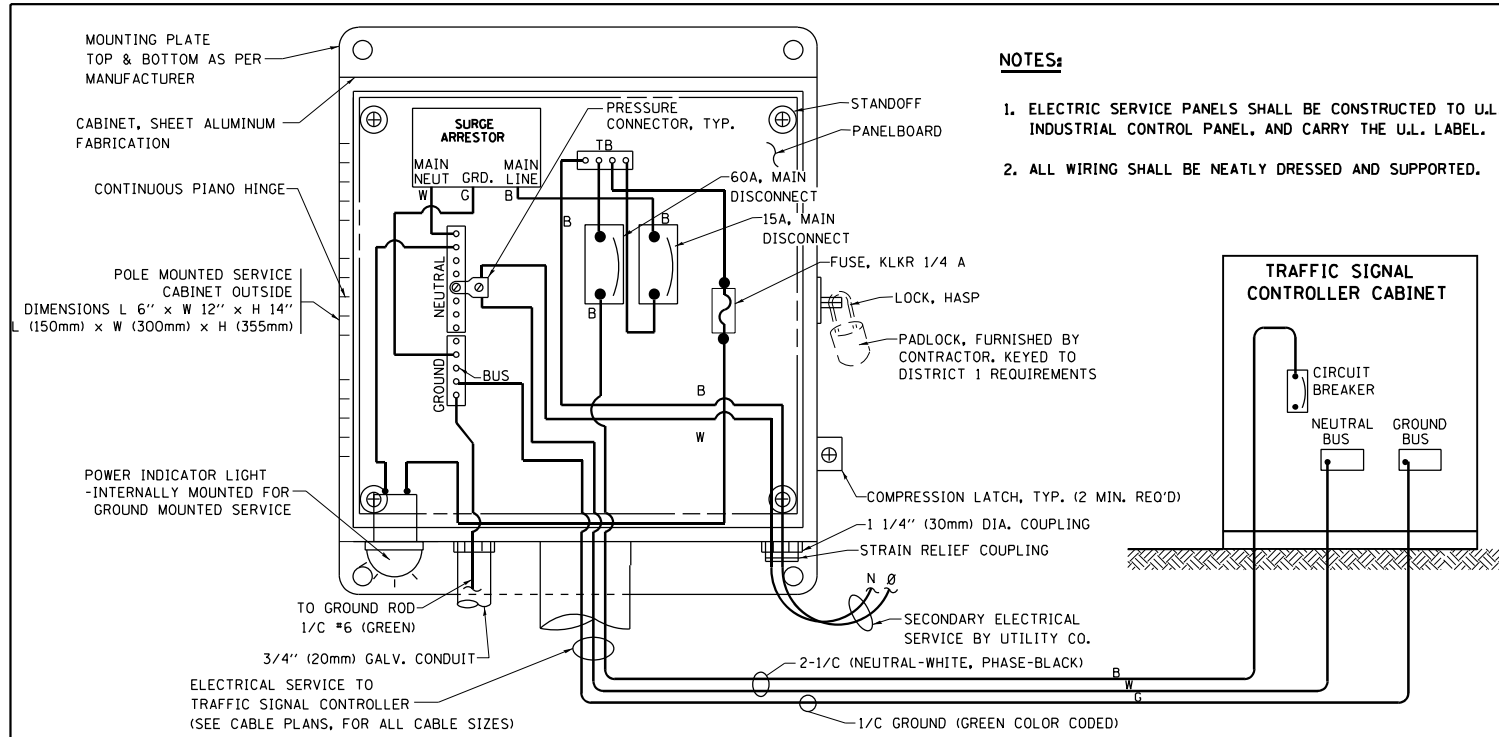
**TRAFFIC SIGNAL EQUIPMENT OFFSET**

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

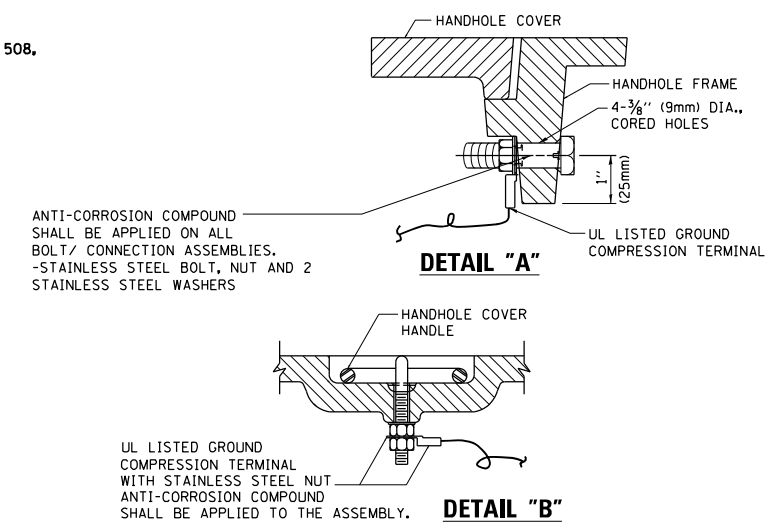
**NOTES:**

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

TS SHT NO. 3

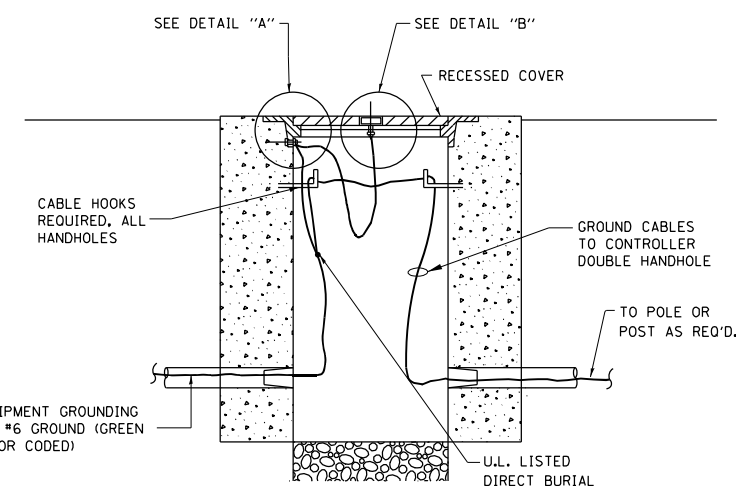


**ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)  
SERVICE INSTALLATION POLE MOUNT (SHOWN)  
(NOT TO SCALE)**

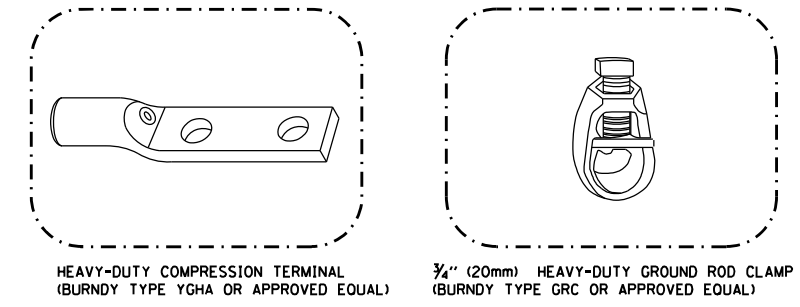


**NOTES:**  
**GROUNDING SYSTEM**

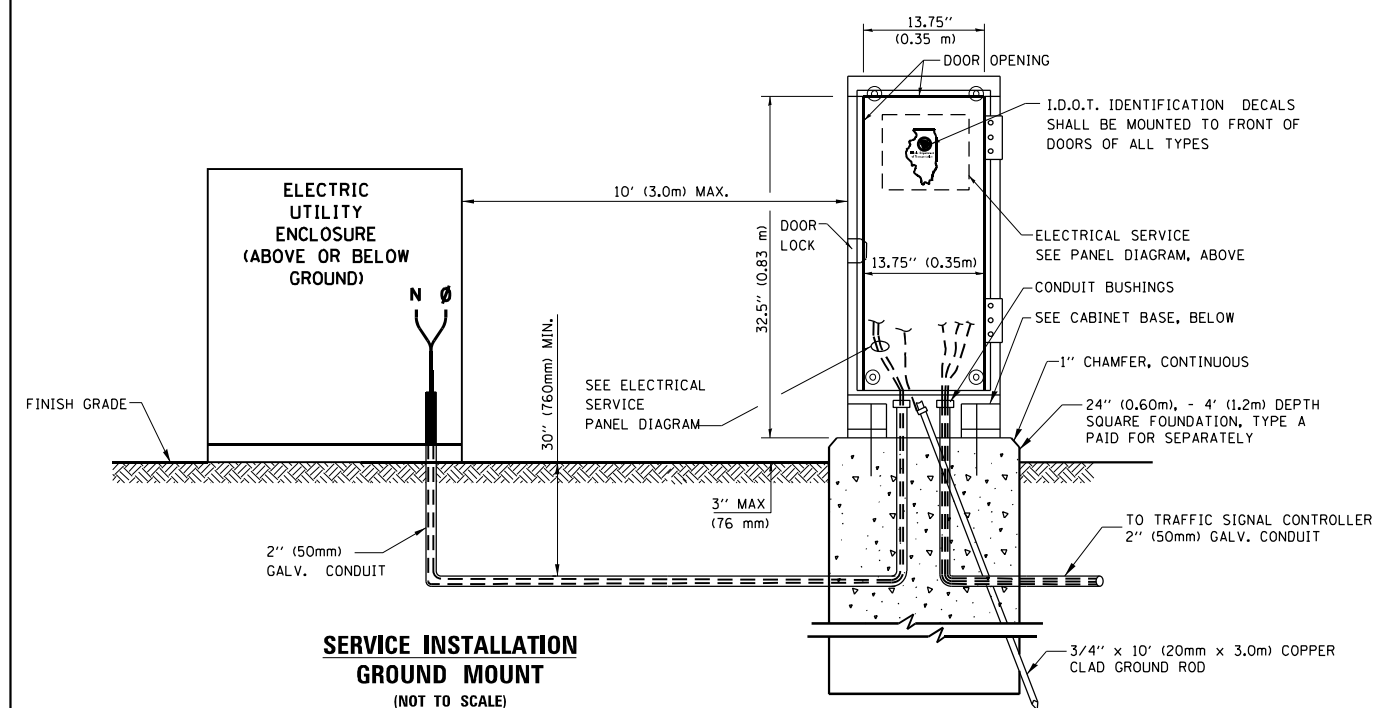
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN ENCLOSED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



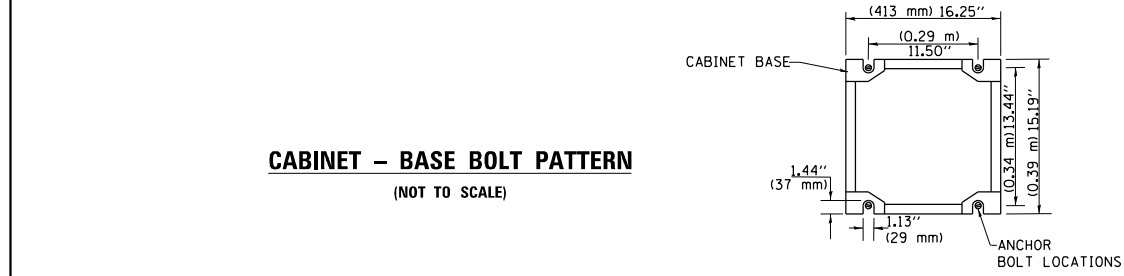
**HANDHOLE COVER & FRAME – GROUNDING DETAIL  
(NOT TO SCALE)**



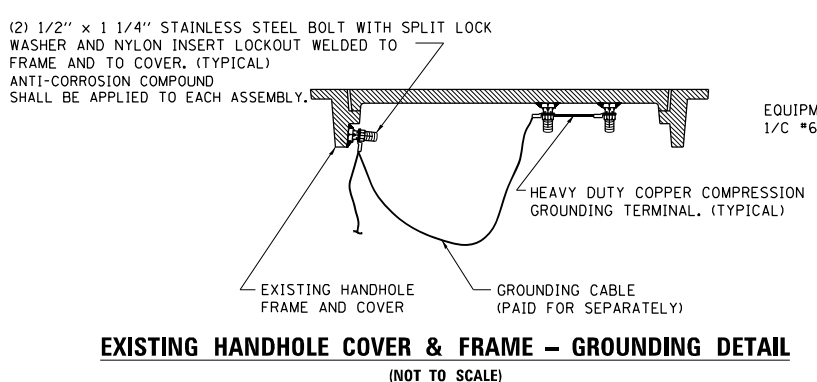
- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
  - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



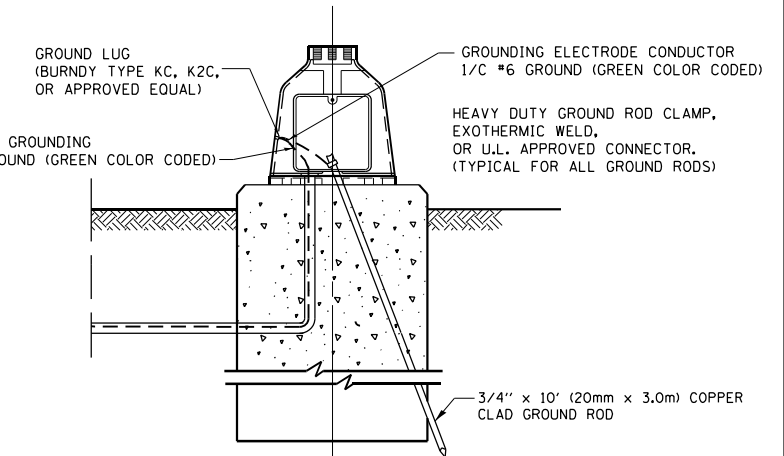
**SERVICE INSTALLATION GROUND MOUNT  
(NOT TO SCALE)**



**CABINET – BASE BOLT PATTERN  
(NOT TO SCALE)**



**EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL  
(NOT TO SCALE)**

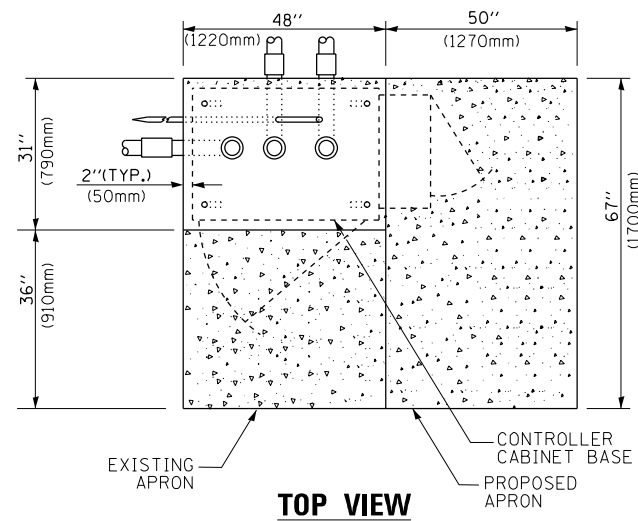


**MAST ARM POLE / POST-GROUNDING DETAIL  
(NOT TO SCALE)**

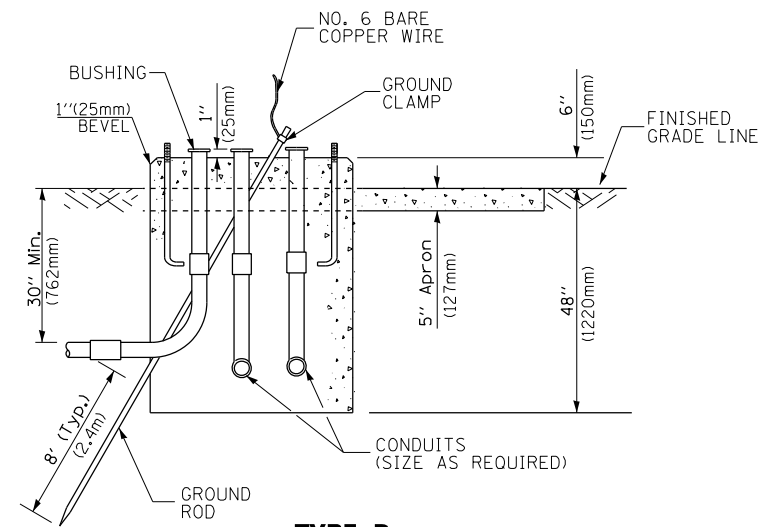
TS SHT NO. 4

FILE NAME =	USER NAME = plesencia1	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default		CHECKED -	REVISED -			TS-05		CONTRACT NO.60R49		
		DATE -	REVISED -			SCALE: NONE	SHEET 4 OF 7 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT	

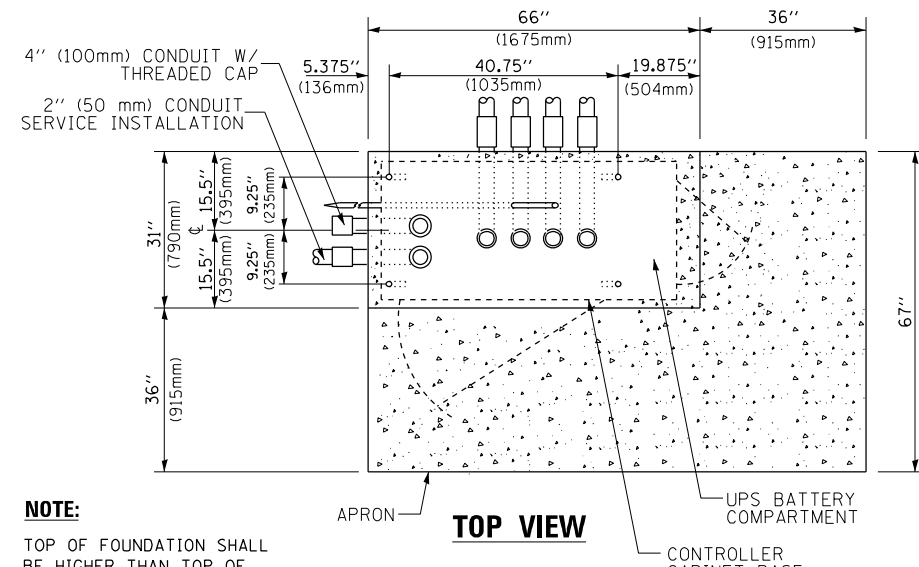




**TOP VIEW**

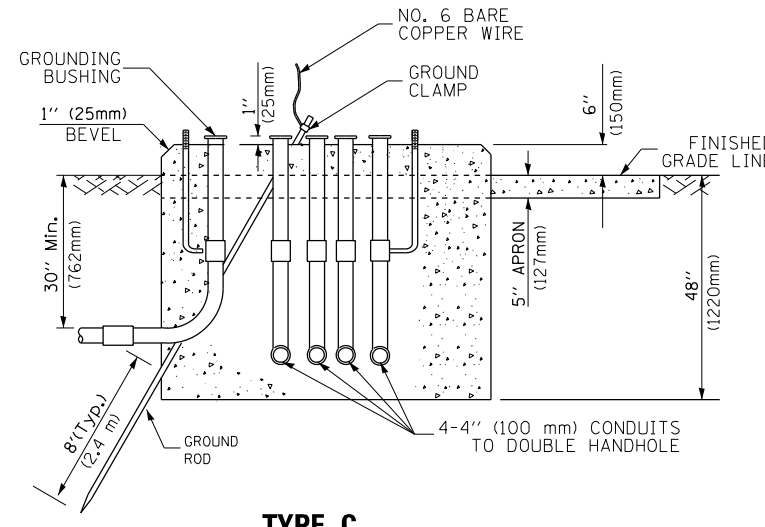


**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**

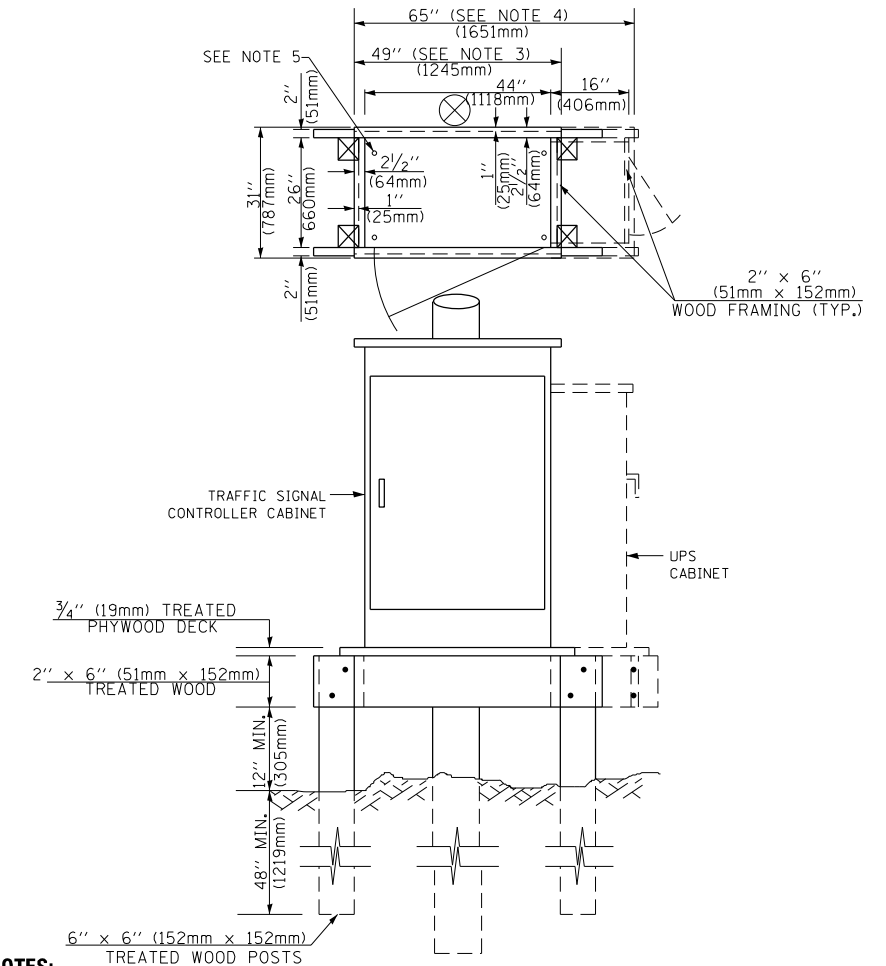


**TOP VIEW**

**NOTE:**  
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



**TYPE C  
FOR GROUND MOUNTED  
SUPER P (TYPE IV) AND SUPER R (TYPE V)  
CONTROLLER CABINETS**



**NOTES:**

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION..

**TEMPORARY SIGNAL CONTROLLER  
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

**CABLE SLACK**

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

**VERTICAL CABLE LENGTH**

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

**DEPTH OF FOUNDATION**

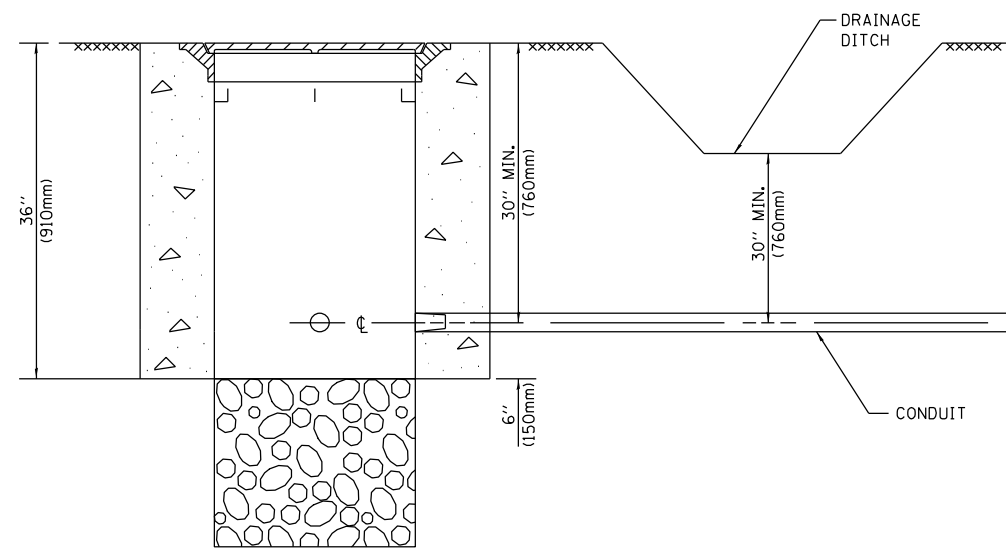
MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	24" (600mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m) and up to 85' (25.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

**NOTES:**

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average unconfined compressive strength (qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001..

**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**

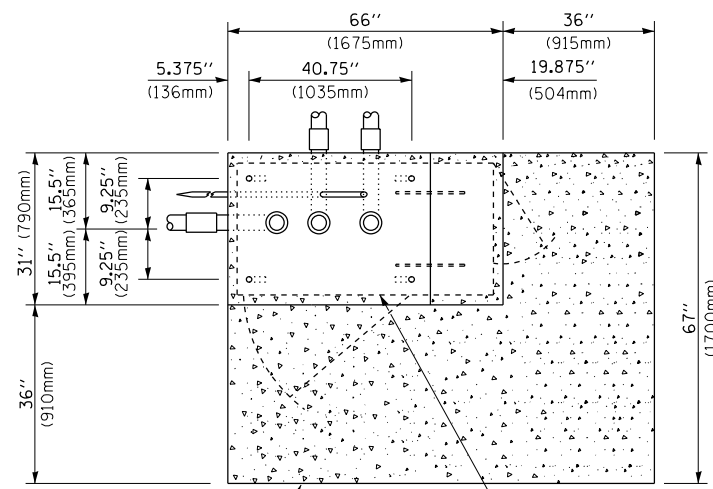
TS SHT NO. 5



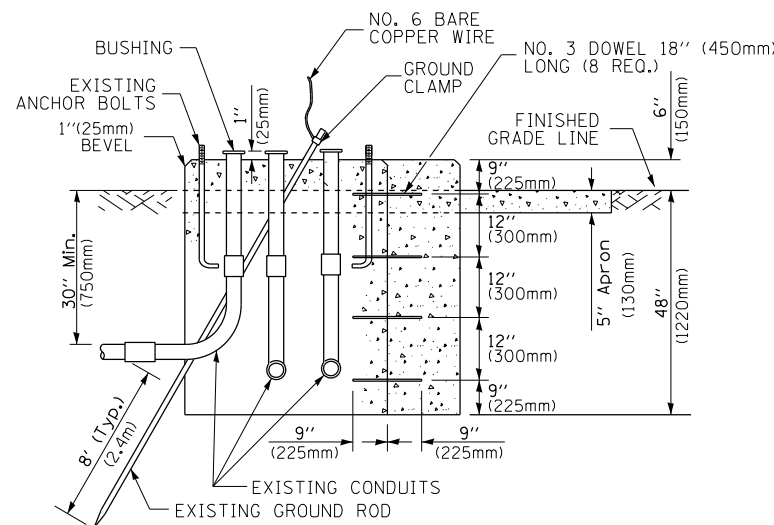
**NOTES:**

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

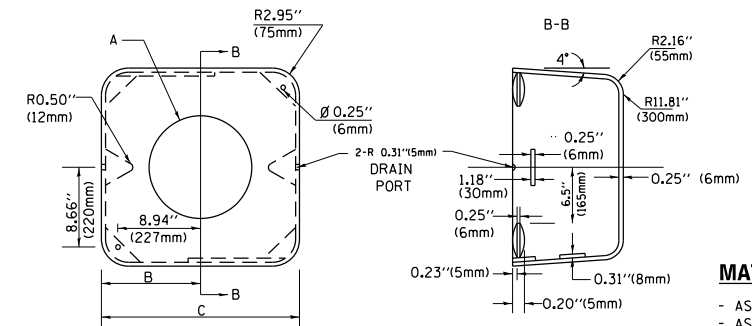
**HANDHOLE WITH MINIMUM CONDUIT DEPTH**  
(NOT TO SCALE)



**TOP VIEW**  
(NOT TO SCALE)



**MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION**  
(NOT TO SCALE)



**MATERIAL:**  
- ASTM A36 STEEL  
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

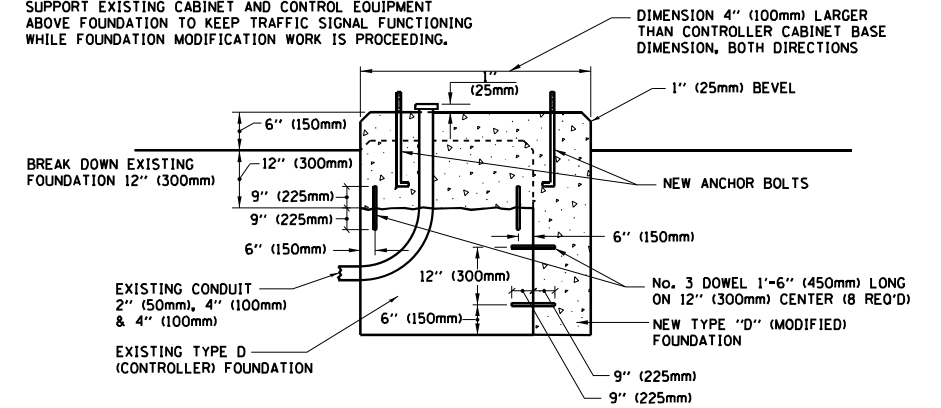
**SHROUD**

**NOTES:**

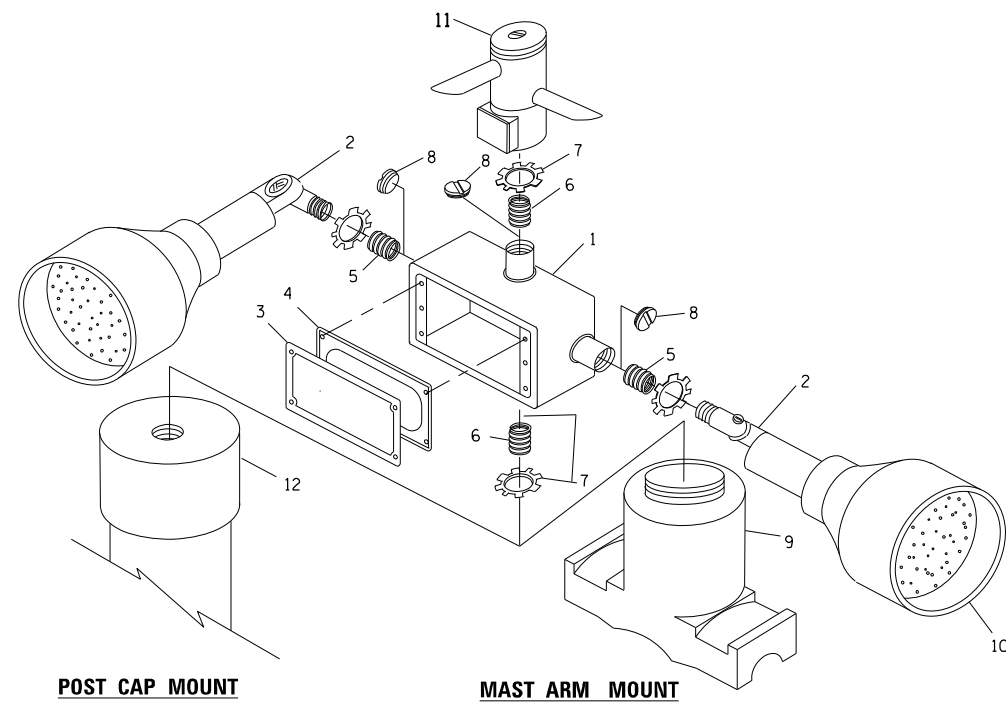
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

**NOTE:**

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



**MODIFY EXISTING TYPE "D" FOUNDATION**

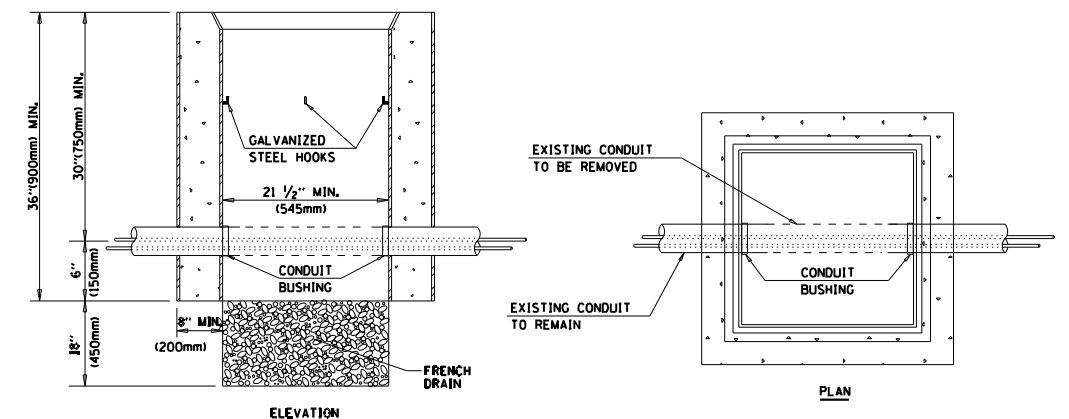


**EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL**

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

**NOTES:**

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT  
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT  
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



**NOTES:**

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

**HANDHOLE TO INTERCEPT EXISTING CONDUIT**

TS SHT NO. 6

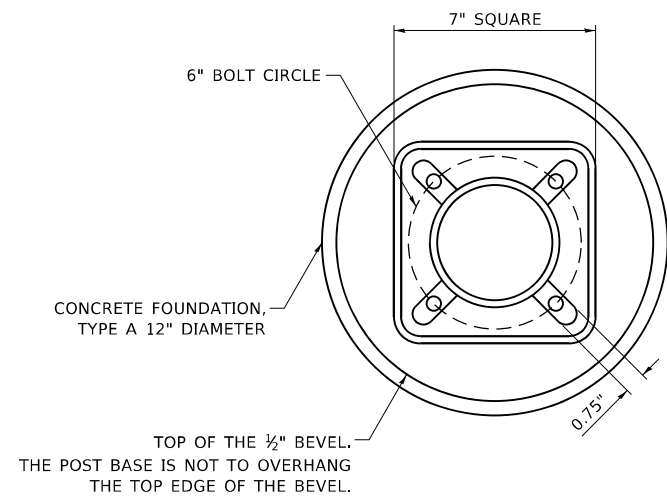
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 6 OF 7 SHEETS STA. TO STA.

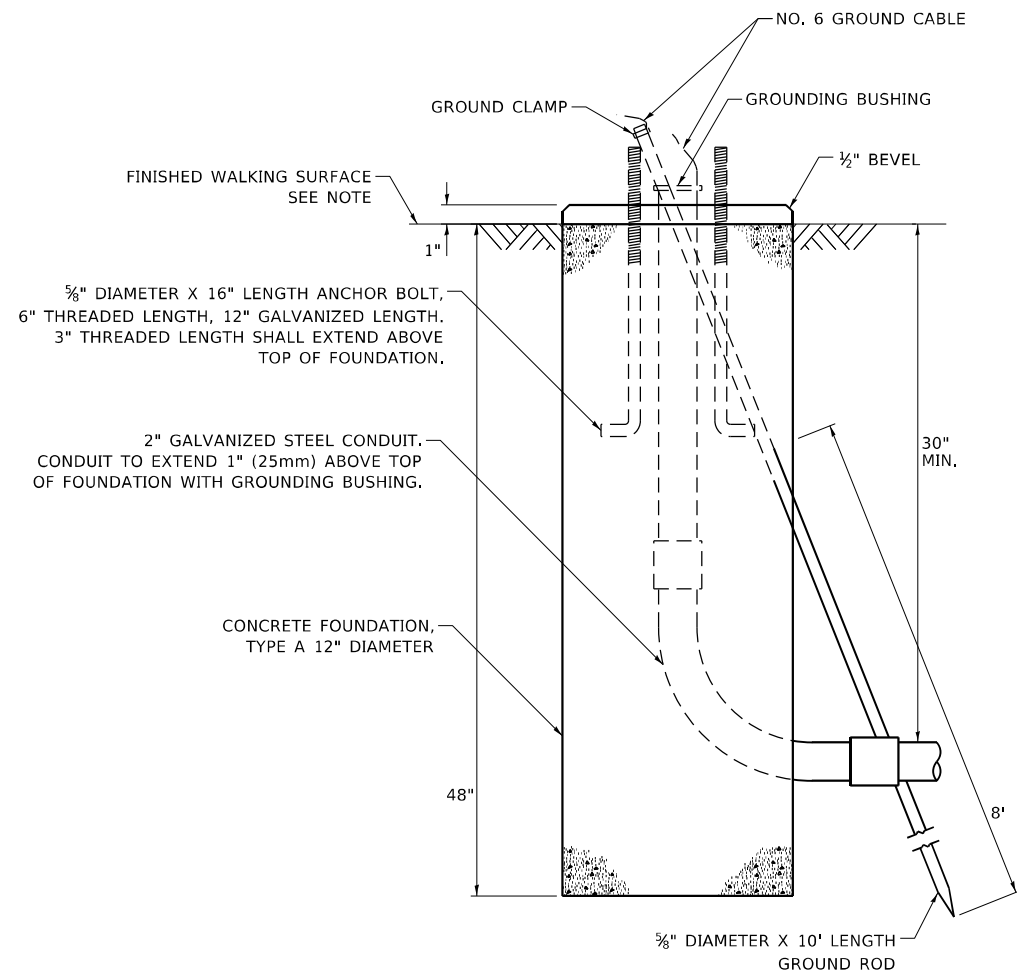
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	TS-05	CONTRACT NO. 60R49		
ILLINOIS FED. AID PROJECT				



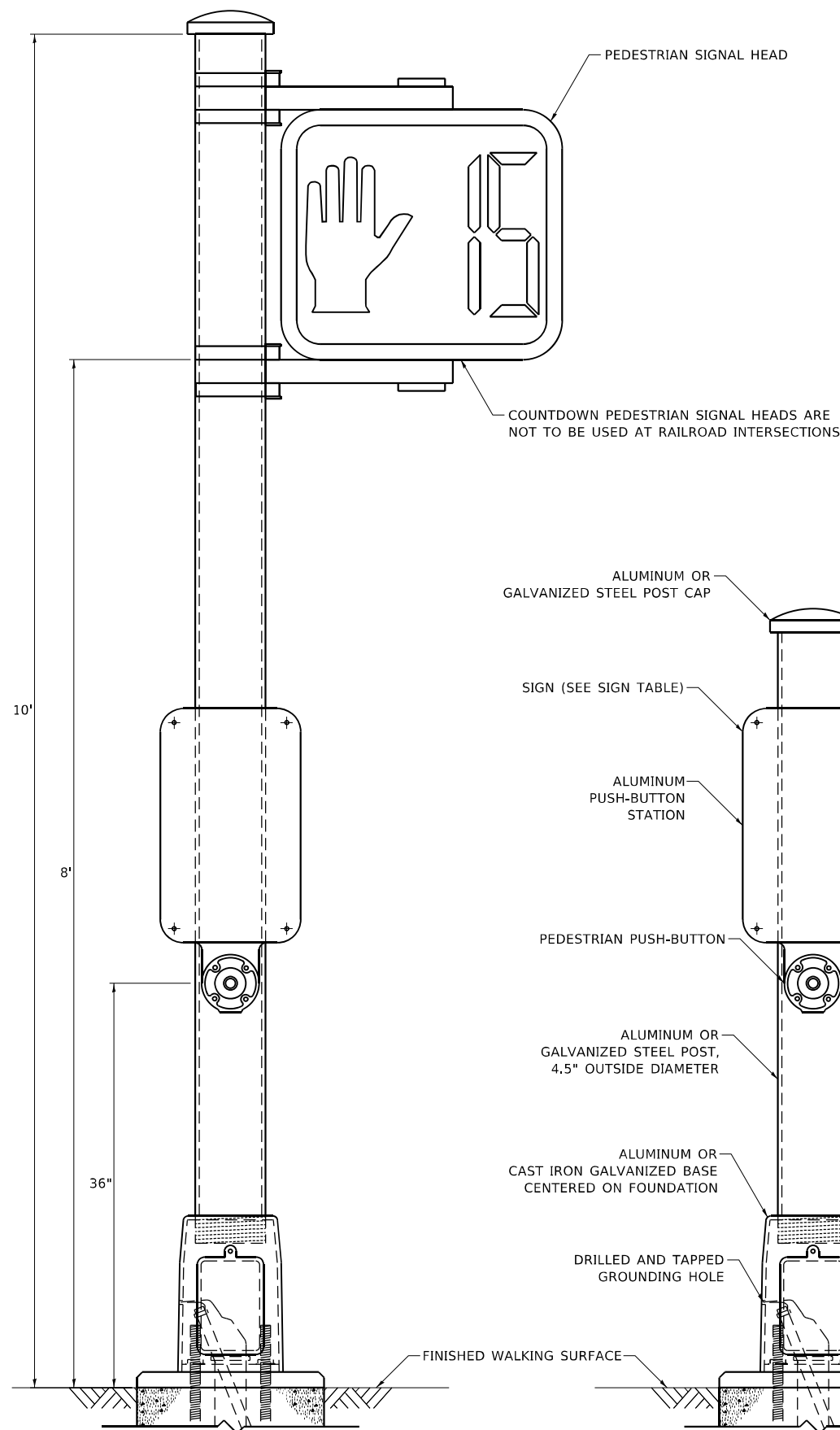
**BOLT PATTERN**

**NOTE:**

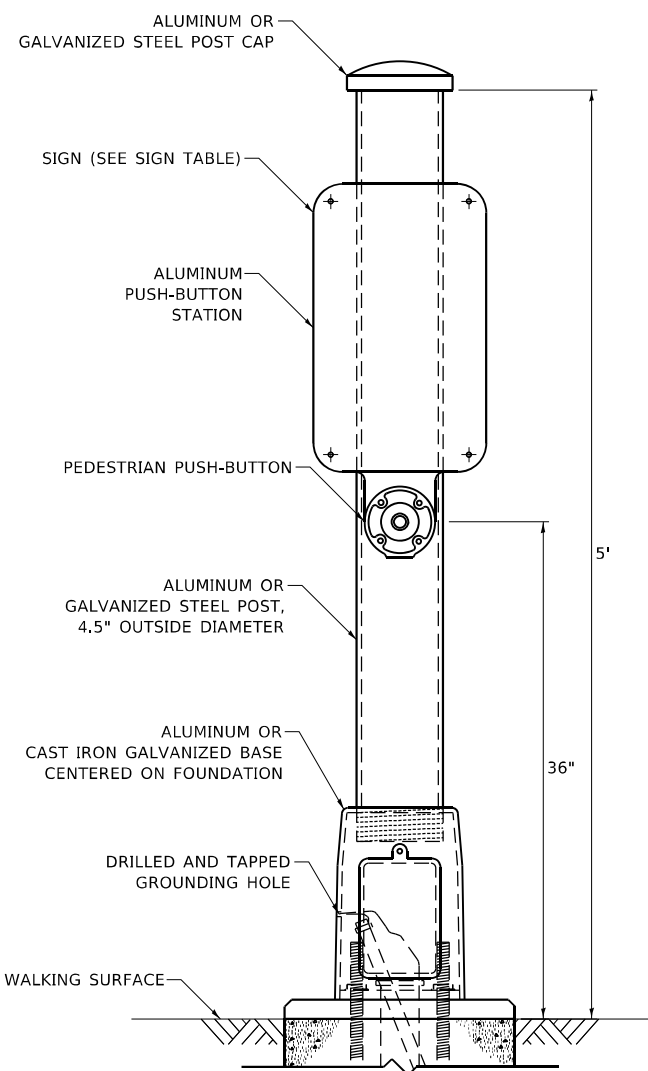
1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



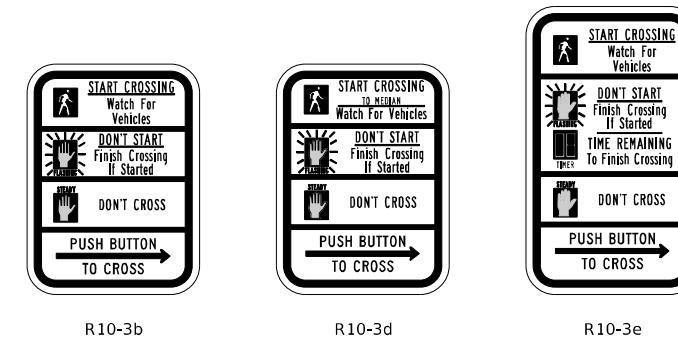
**CONCRETE FOUNDATION,  
TYPE A 12-INCH DIAMETER**



**PEDESTRIAN SIGNAL POST, 10 FT.**



**PEDESTRIAN SIGNAL POST, 5 FT.**



**SIGN TABLE**

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 15"

**NOTES:**

1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.
2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.
3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

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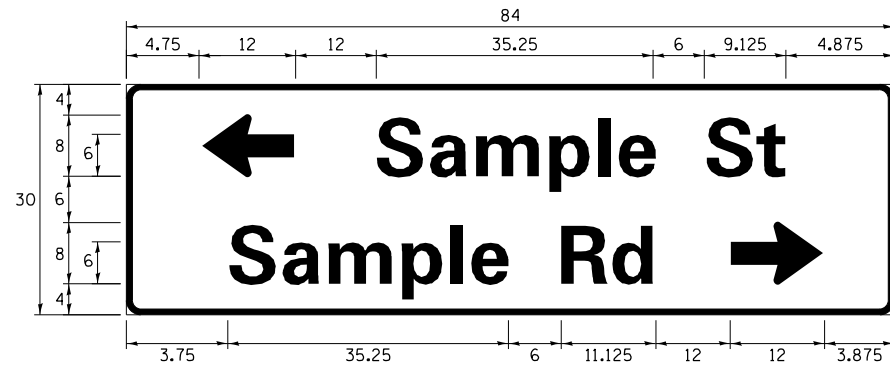
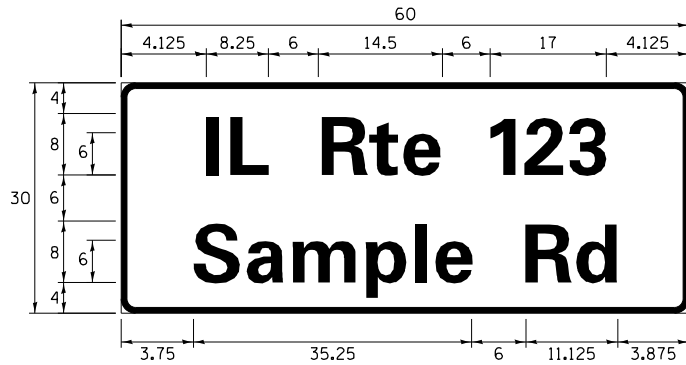
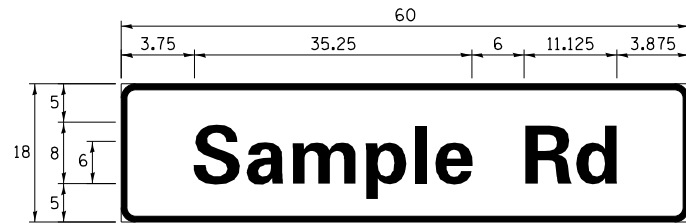
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NTS SHEET NO. 7 OF 7 SHEETS STA. TO STA.

F.A. RTE. 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 281G
TS-05		CONTRACT NO. 60R49		
ILLINOIS FED. AID PROJECT				

**SIGN PANEL – TYPE 1 OR TYPE 2**



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D OR C	-	1 OR 2	ZZ	-

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

**COMMON STREET NAME ABBREVIATIONS AND WIDTHS**

NAME	ABBREVIATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

**GENERAL NOTES**

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE 3/4" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8'-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
- LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

**LOCAL SUPPLIERS:**

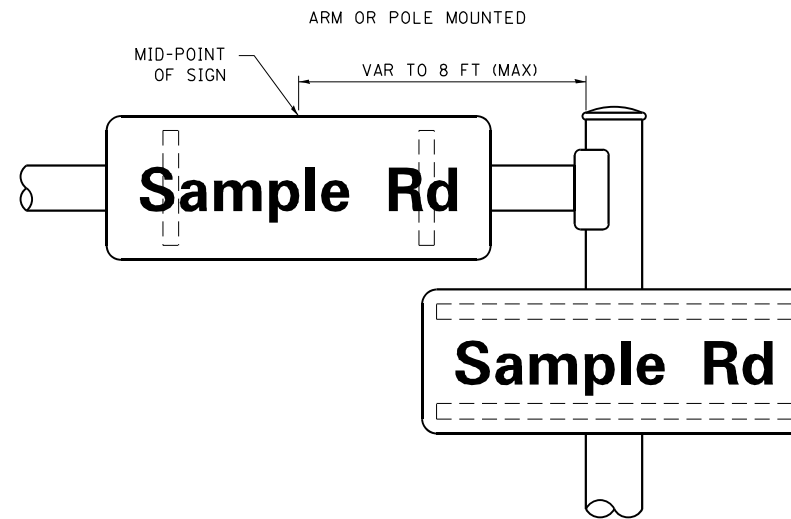
- J.O. HERBERT COMPANY, INC  
MIDLOTHIAN, VA
- WESTERN REMAC, INC.  
WOODRIDGE, IL

**PARTS LISTING:**

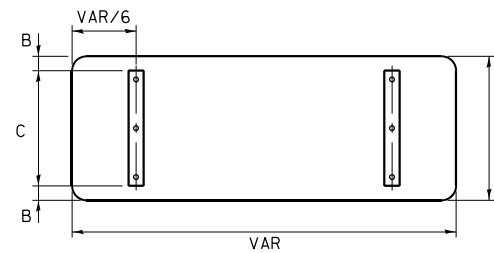
- SIGN CHANNEL PART #HPN053 (MED. CHANNEL)  
1/4" x 14 x 1" H.W.H. #3  
SELF TAPPING WITH NEOPRENE WASHER
- SIGN SCREWS PART #HPN034 (UNIVERSAL)  
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING
- BRACKETS

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

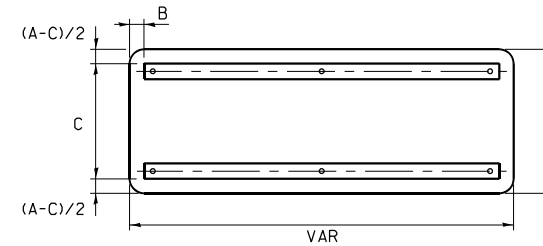
**MOUNTING LOCATION**



**SUPPORTING CHANNELS**



A	B	C
18"	2"	14"
30"	2"	24"



A	B	C
18"	2"	12"
30"	2"	22"

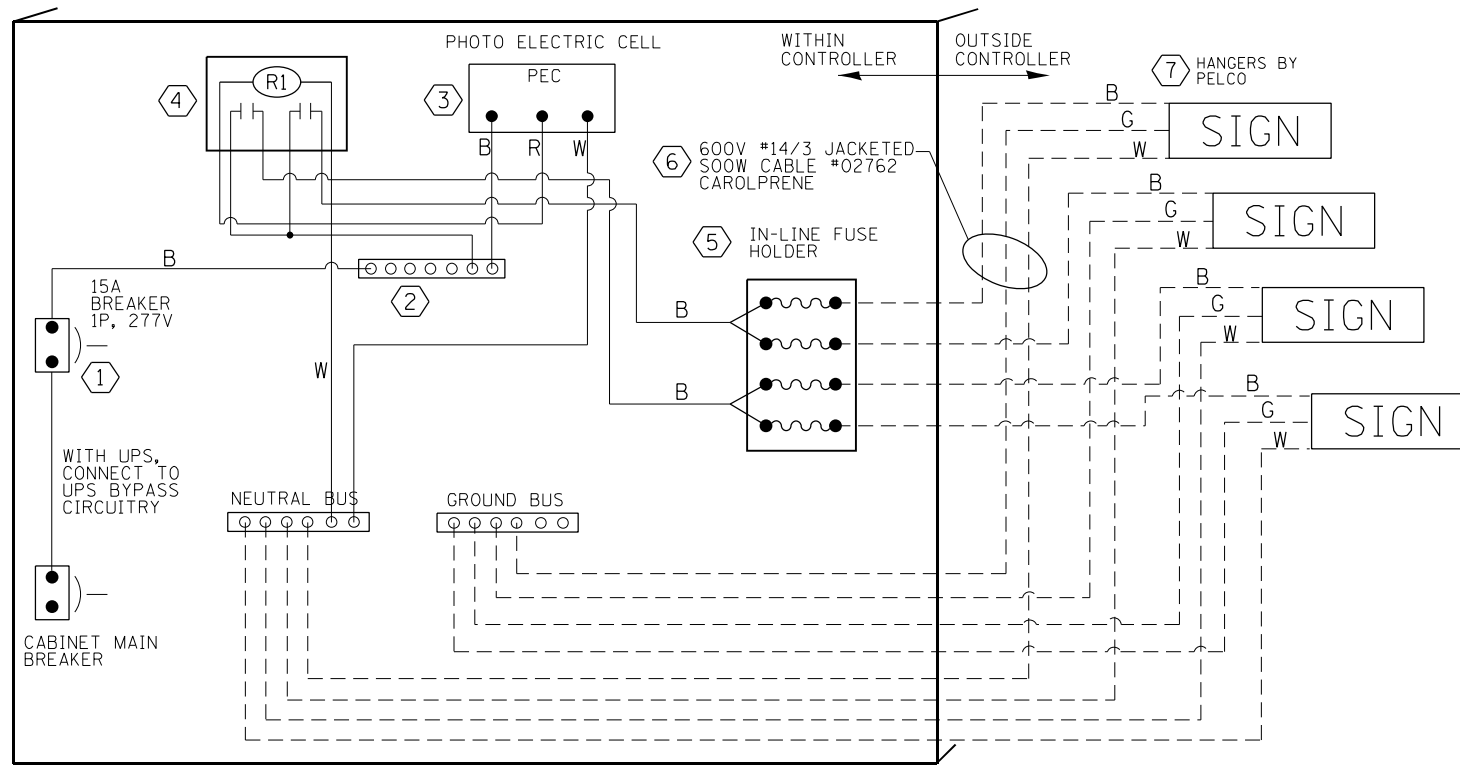
**STANDARD ALPHABETS SPACING CHART**

( 8" ) UPPER CASE AND ( 6" ) LOWER CASE

CHARACTER	FHWA SERIES "C"			FHWA SERIES "D"			
	LEFT SPACING ( INCH )	WIDTH ( INCH )	RIGHT SPACING ( INCH )	CHARACTER	LEFT SPACING ( INCH )	WIDTH ( INCH )	RIGHT SPACING ( INCH )
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

TS SHT NO. 8

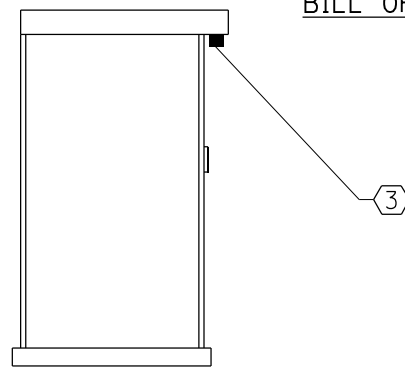
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Default	PLOT SCALE = 100.0000' / 1in.	CHECKED - IP	REVISED -			SCALE:	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 60R49	
	PLOT DATE = 5/17/2016	DATE - 10/01/2014	REVISED -			ILLINOIS FED. AID PROJECT				



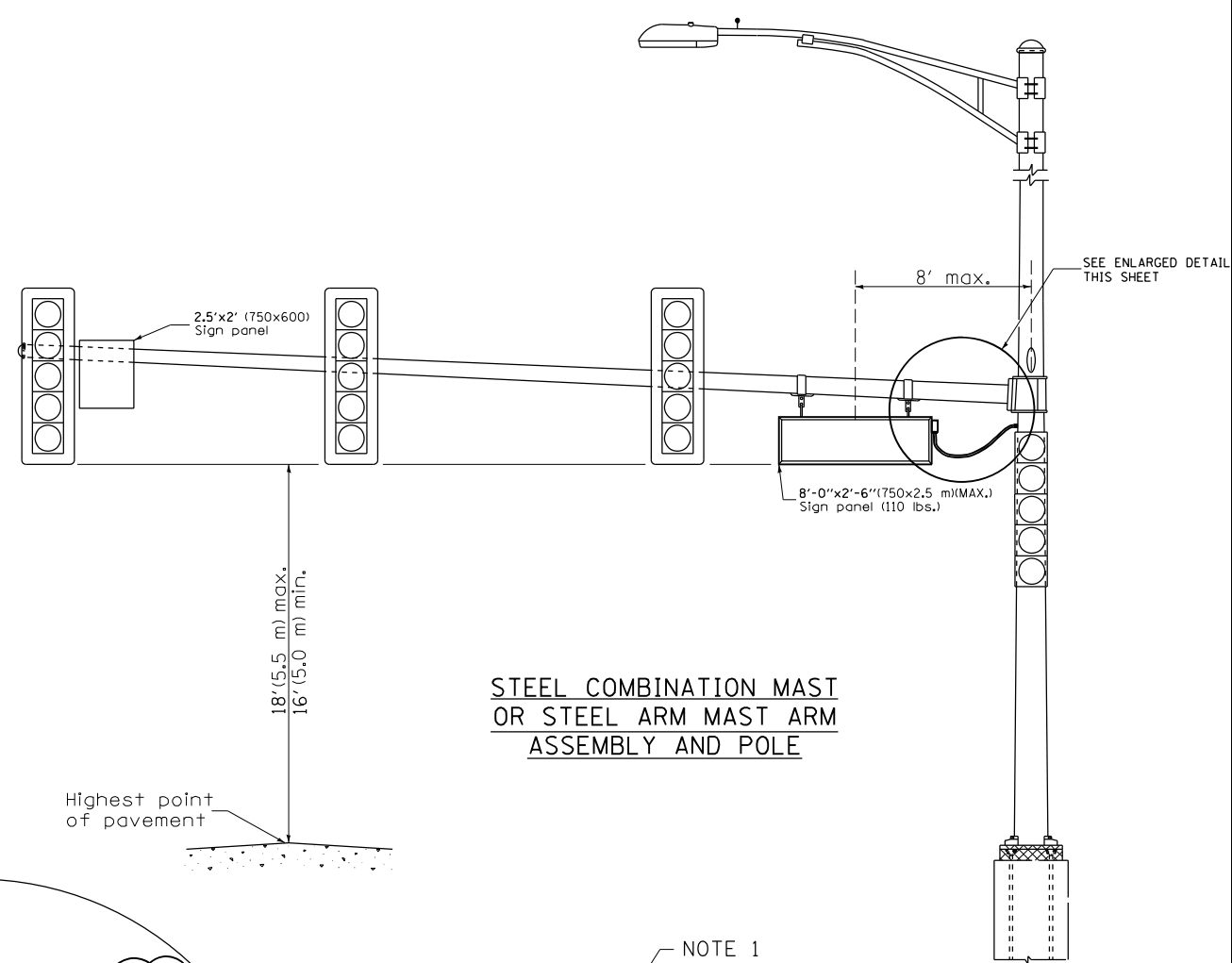
LED SIGN WIRING DETAIL

DESCRIPTION	MANUFACTURER	MODEL	NOTES
① CIRCUIT BREAKER		15 AMPERE	Molded case, Thermal Mag. min. R.I. of 14K R.M.S. symmetrical ampere of 277V.
② TERMINAL BLOCK	MARATHON	1502 DJSV	
③ PHOTO ELECTRIC CONTROL	FISHER PIERCE	B124-1.5-07762	
④ CONTROL RELAY	SQUARE D	8501X020V02	BOLT ON W/SCREW TERMINAL
⑤ INLINE FUSE HOLDER WITH 5 AMP FUSE	BUSSMAN	S-8000 BK/S-8-3-4-R	
⑥ ELECTRIC CABLE, NO. 14, 3/C (BLACK, WHITE, GREEN)	CAROLPRENE/SOOW	02762	
⑦ SIGN MOUNTING HARDWARE	PELCO	SE-5015	S.S. HARDWARE

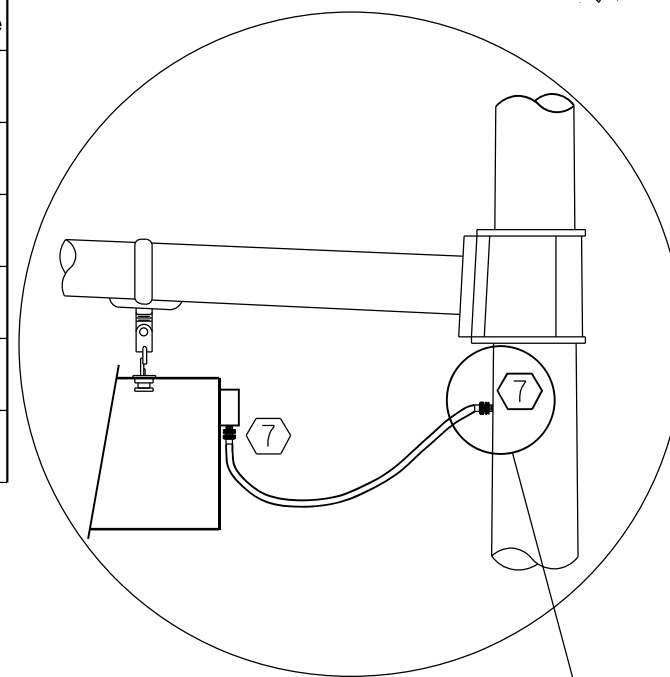
BILL OF MATERIALS



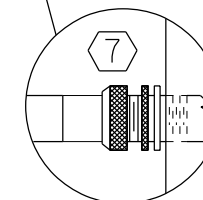
CONTROLLER CABINET SIDE VIEW



STEEL COMBINATION MAST OR STEEL ARM MAST ARM ASSEMBLY AND POLE



L.E.D. SIGN ENLARGED CABLE CONNECTOR DETAIL



L.E.D. SIGN ENLARGED CABLE CONNECTOR DETAIL



LED ILLUMINATED SIGN PANEL

8'0 x 2'6" (750 mm x 2.5 mm)(MAX)  
C or D FONT

NOTES:

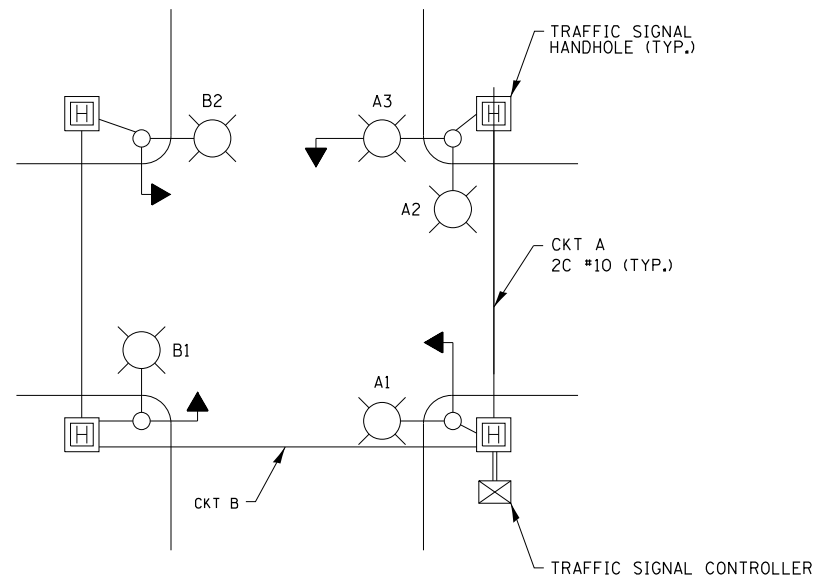
- SIGNS SHALL BE DUAL SIDED. FRONT AND BACK OF SIGN WILL BE THE SAME.
- SIGNS SHALL NOT BE ENERGIZED WHEN TRAFFIC SIGNALS ARE POWERED BY THE UPS. THE SIGNS SHALL BE CONNECTED TO THE UPS BYPASS CIRCUITRY.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:  
R = RED      BL = BLUE      W = WHITE  
B = BLACK      Y = YELLOW      G = GREEN
- ALL 120 VOLT SYSTEM AND ALL CONTROL WIRING SHALL BE #12AWG STRANDED UNLESS OTHERWISE INDICATED.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

FILE NAME: c:\transys\transys\pwr\_local\transys\corp-pwr\1\smatch\01665596\160046-eh-hs-0201.dgn

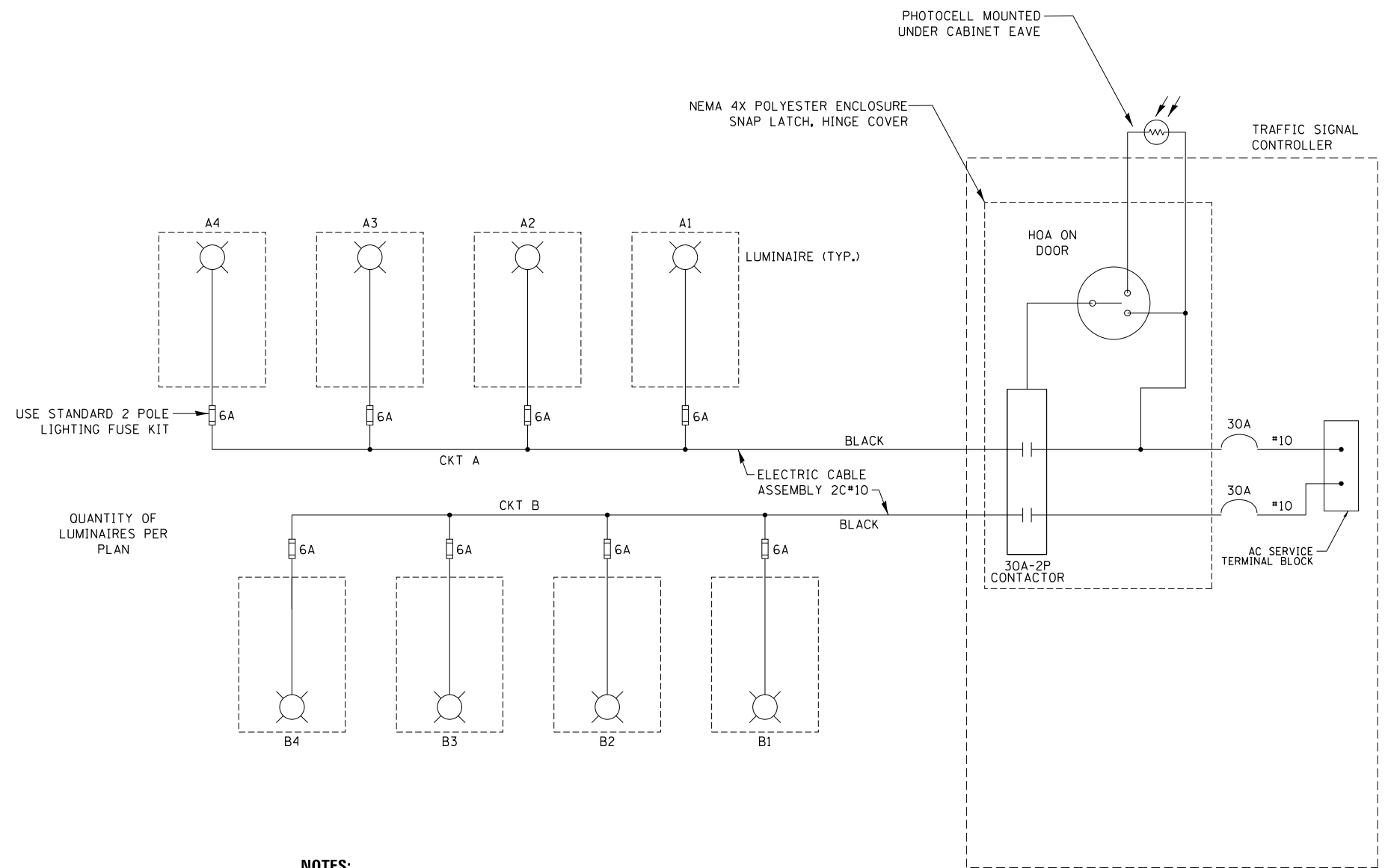
USER NAME = bmsetzka	DESIGNED - GR	REVISED -
	DRAWN - GR	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - JLV	REVISED -
PLOT DATE = 4/16/2019	DATE - 04-18-2019	REVISED -

<b>LED ILLUMINATED STREET NAME INSTALLATION AND WIRING DIAGRAM</b>			
SCALE: NONE	SHEET 1 OF 1 SHEETS	STA.	TO STA.

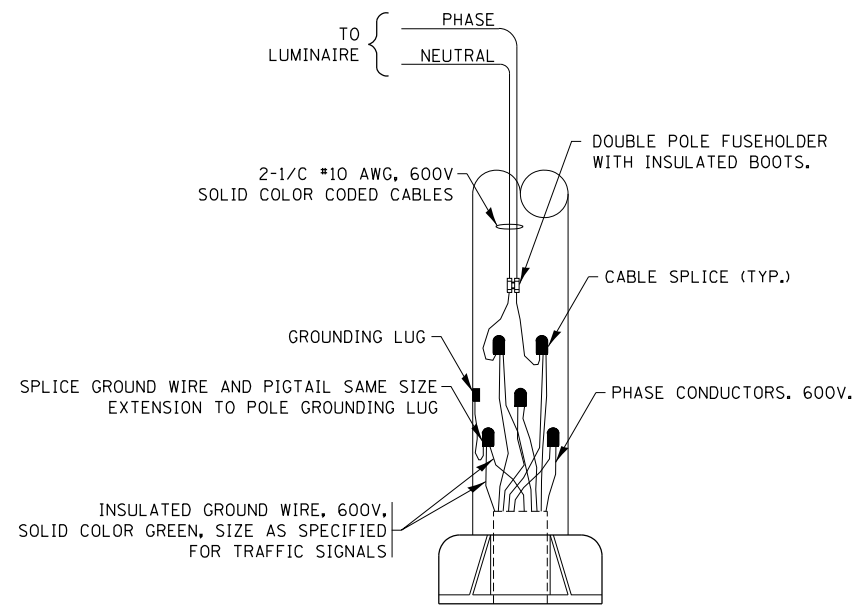
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	3128-Z-I-R&RS	659	2811
CONTRACT NO. 60R49		ILLINOIS FED. AID PROJECT	



**TYPICAL LIGHTING CIRCUIT**  
(NOT TO SCALE)



- NOTES:**
1. 4 LUMINAIRES PER CIRCUIT, MAXIMUM.
  2. MULTI-CONDUCTOR CABLE ASSEMBLY FOR LIGHTING CIRCUITS.
  3. ROUTE LIGHTING CIRCUITS IN TRAFFIC SIGNAL CONDUIT SYSTEM.
  4. ALL SPLICES AND CONNECTIONS FOR ROADWAY LIGHTING SHALL BE AT POLE BASE ONLY.
  5. ALL CONTROLLERS TO HAVE TWO FUSED LIGHTING BRANCH CIRCUITS.
  6. ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED. (UNDERGROUND SPLICING OF LIGHTING CONDUCTORS IS NOT PERMITTED).
  7. THE H.O.A. SWITCH SHALL BE LABELED AS "LIGHTING CONTROL" WITH THE POSITIONS "AUTO", "OFF" AND "TEST" WITH ENGRAVED NAME PLATES.
  8. LIGHTING CONNECTED TO UPS BYPASS CIRCUIT.
  9. COMBINATION LIGHTING MUST BE INSTALLED PRIOR TO SIGNAL TURN ON.
  10. LUMINAIRE VOLTAGE SHALL BE 120V



**COMBINATION POLE WIRING DETAIL**  
(NOT TO SCALE)

FILE NAME = be240.dgn	USER NAME = footemj	DESIGNED - RT	REVISED - 02/10/2015
		DRAWN -	REVISED - 10/13/2015
		CHECKED - RT	REVISED - T.G. 4/12/2017
		DATE - 08/18/2014	REVISED - R. TOMSONS 3/22/18

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

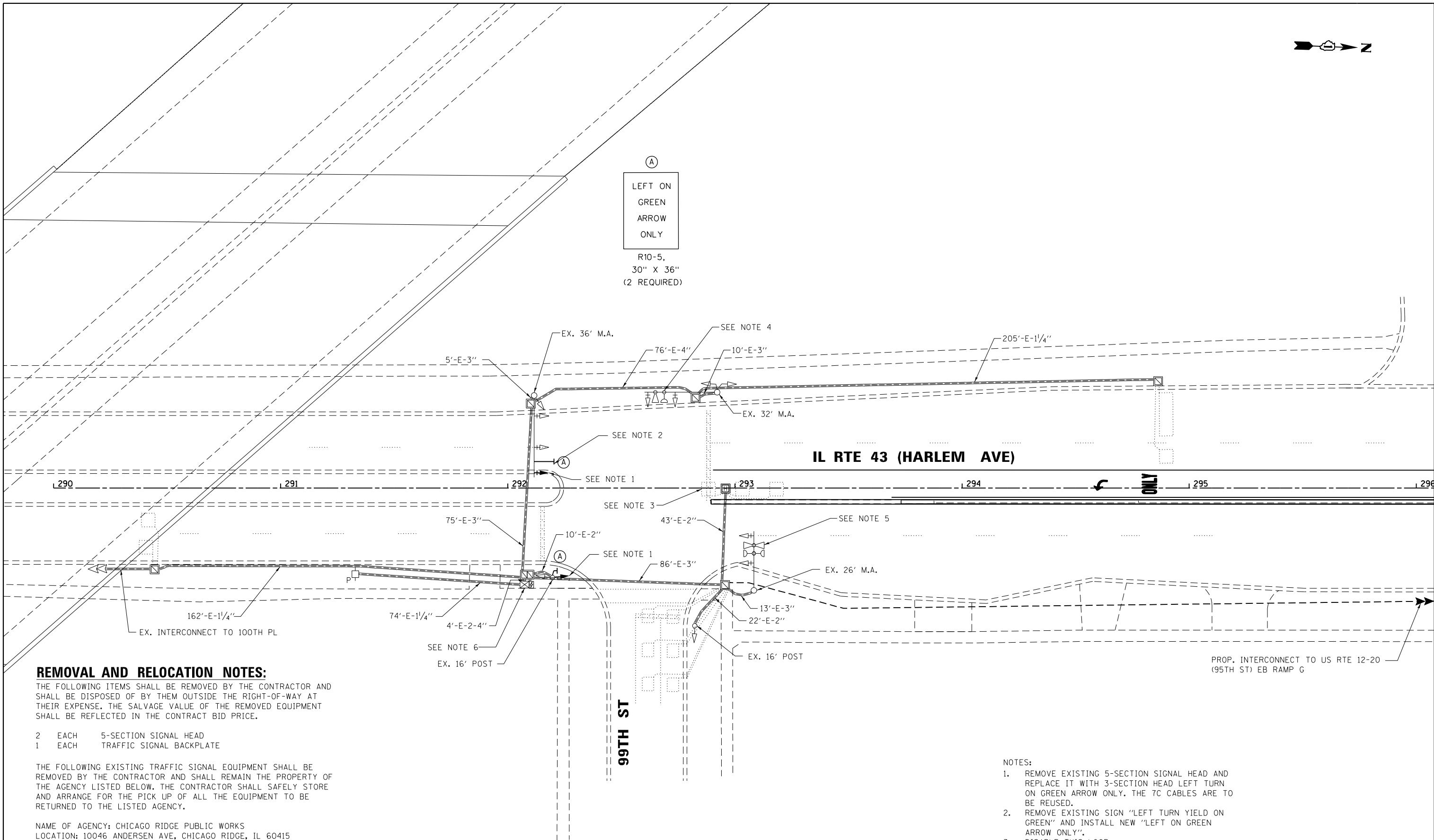
COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE. 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 281J
BE-240		CONTRACT NO. 60R49		
ILLINOIS FED. AID PROJECT				



(A)  
 LEFT ON  
 GREEN  
 ARROW  
 ONLY  
 R10-5,  
 30" X 36"  
 (2 REQUIRED)



**REMOVAL AND RELOCATION NOTES:**

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 2 EACH 5-SECTION SIGNAL HEAD
- 1 EACH TRAFFIC SIGNAL BACKPLATE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

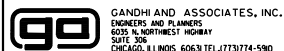
NAME OF AGENCY: CHICAGO RIDGE PUBLIC WORKS  
 LOCATION: 10046 ANDERSEN AVE, CHICAGO RIDGE, IL 60415  
 PHONE NUMBER: (708) 425-8766

- 1 EACH DUAL LIGHT DETECTOR
- 1 EACH DUAL CONFIRMATION BEACON
- 1 EACH CONFIRMATION BEACON
- 1 EACH LIGHT DETECTOR AMPLIFIER

**NOTES:**

1. REMOVE EXISTING 5-SECTION SIGNAL HEAD AND REPLACE IT WITH 3-SECTION HEAD LEFT TURN ON GREEN ARROW ONLY. THE 7C CABLES ARE TO BE REUSED.
2. REMOVE EXISTING SIGN "LEFT TURN YIELD ON GREEN" AND INSTALL NEW "LEFT ON GREEN ARROW ONLY".
3. DISABLE THIS LOOP.
4. REPLACE CONFIRMATION BEACON.
5. REPLACE WITH A 2-CHANNEL DUAL DETECTOR.
6. REPLACE EXISTING PHASING UNIT WITH A 4 CHANNEL CARD.

FILE NAME =  
 #FILES



GANDHI AND ASSOCIATES, INC.  
 ENGINEERS AND PLANNERS  
 5035 N. NORTHWEST HIGHWAY  
 SUITE 200  
 CHICAGO, ILLINOIS 60630 TEL: (773) 774-590

USER NAME = #USER#	DESIGNED - EA	REVISED -
PLOT SCALE = #SCALE#	DRAWN - AV, EA	REVISED -
PLOT DATE = #DATE#	CHECKED - PKG, MS	REVISED -
	DATE - 10/09/2023	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL EQUIPMENT REMOVAL AND MODIFICATION PLAN  
 IL RTE 43 (HARLEM AVE) AT 99TH ST

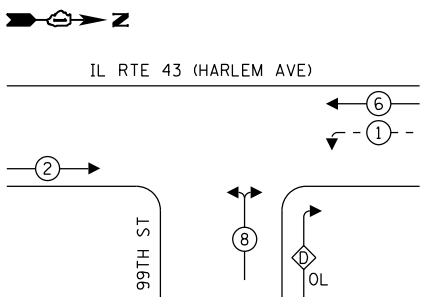
SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 29 & 348	SECTION 3128-Z-1-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 282
CONTRACT NO. 60R49			ILLINOIS FED. AID PROJECT	

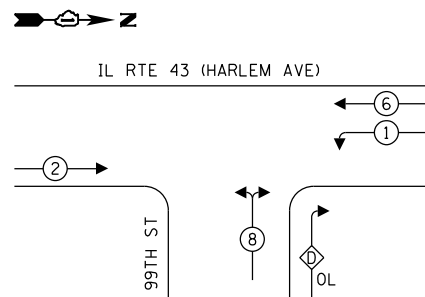
TS 2200  
 ECON 66



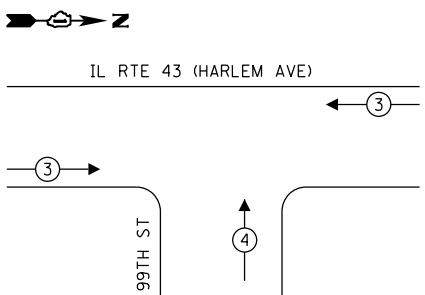
**EXISTING CONTROLLER SEQUENCE**



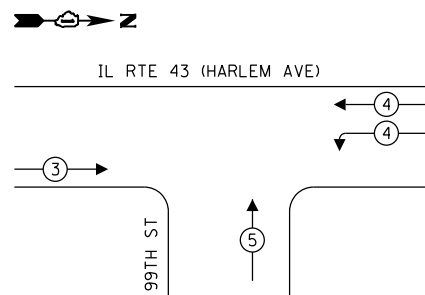
**PROPOSED CONTROLLER SEQUENCE**



**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**LEGEND:**

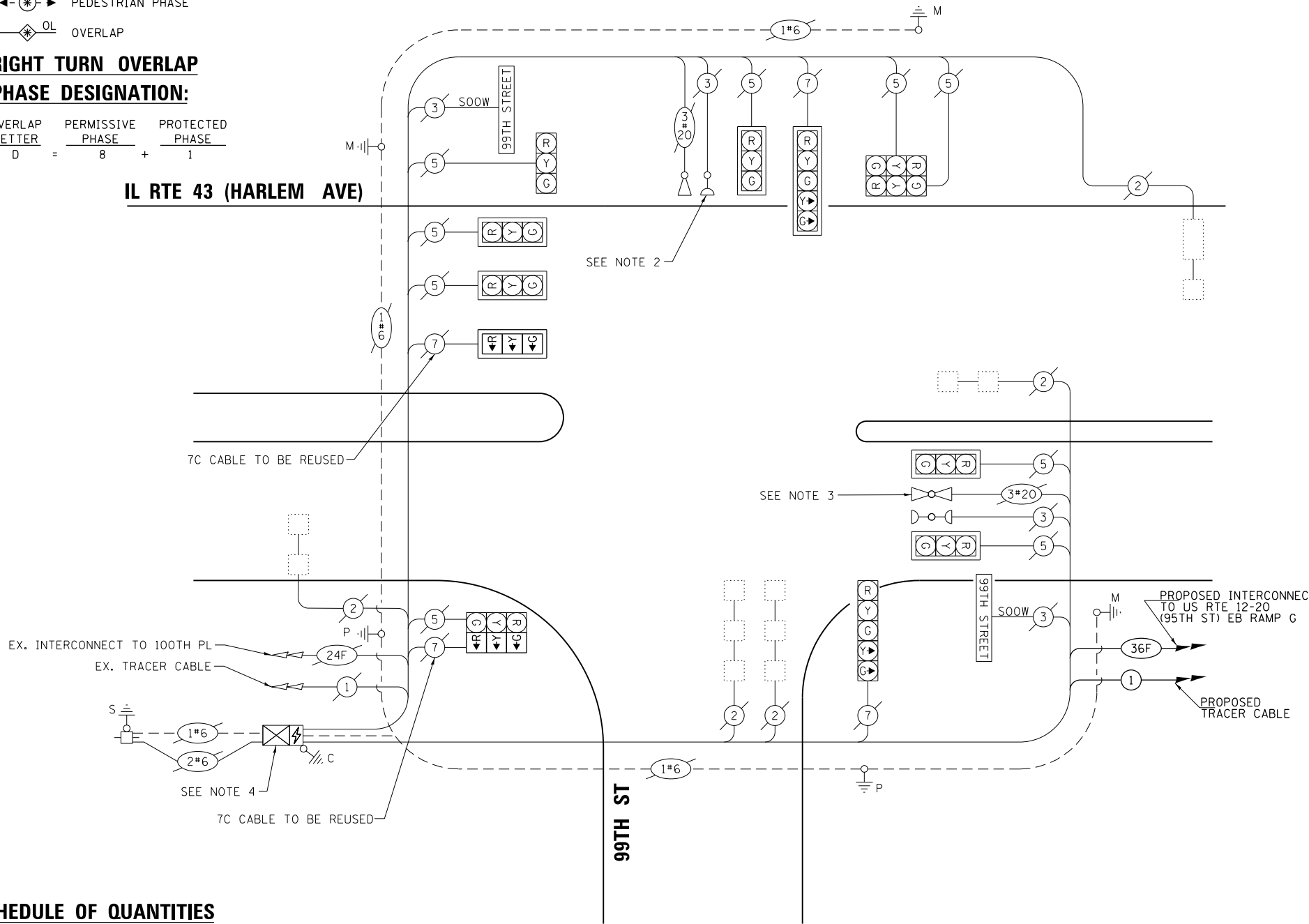
- ← ⊙ → PROTECTED PHASE
- ← ⊙ ⊖ → PROTECTED/PERMITTED PHASE
- ← ⊙ ⊕ → PEDESTRIAN PHASE
- ← ⊙ ⊖ ⊕ OL OVERLAP

**RIGHT TURN OVERLAP**

**PHASE DESIGNATION:**

$$\text{OVERLAP LETTER} = \frac{\text{PERMISSIVE PHASE}}{8} + \frac{\text{PROTECTED PHASE}}{1}$$

**IL RTE 43 (HARLEM AVE)**



**CABLE PLAN**  
(NOT TO SCALE)

- NOTE:
1. ALL RED INDICATIONS SHALL HAVE A LENS COVER.
  2. REPLACE CONFIRMATION BEACON.
  3. REPLACE WITH A 2-CHANNEL DUAL DETECTOR.
  4. REPLACE EXISTING PHASING UNIT WITH A 4 CHANNEL CARD.

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	15
REMOVE SIGN PANEL - TYPE 1	SQ FT	7.5
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	1
* LIGHT DETECTOR	EACH	2
* LIGHT DETECTOR AMPLIFIER	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LED SIGNAL FACE, LENS COVER	EACH	13
* CONFIRMATION BEACON	EACH	1

\* 100% COST TO THE VILLAGE OF CHICAGO RIDGE

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	11	50	71.5
(YELLOW)	13	20	5	13.0
(GREEN)	13	12	45	70.2
PERMISSIVE ARROW	4	10	10	4.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	2	120	50	120.0
LUMINAIRE	-	175	50	-
TOTAL =				403.7

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS/DISTRICT 1  
201 WEST CENTER COURT/ SCHAUMBURG, ILLINOIS 60196-1096  
ENERGY SUPPLY: CONTACT: ILYAS MOHIJUDIN  
PHONE: (708) 235-2629  
COMPANY: COMMONWEALTH EDISON  
ACCOUNT NUMBER: ---

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
IL RTE 43 (HARLEM AVE) AT 99TH ST

F.A.P. RTE. 29 & 348	SECTION 3128-Z-1-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 283
			CONTRACT NO. 60R49	

TS 2200  
ECON 66



DESIGNED - EA	REVISOR -
DRAWN - AV, EA	REVISOR -
CHECKED - PKG, MS	REVISOR -
DATE - 10/09/2023	REVISOR -

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

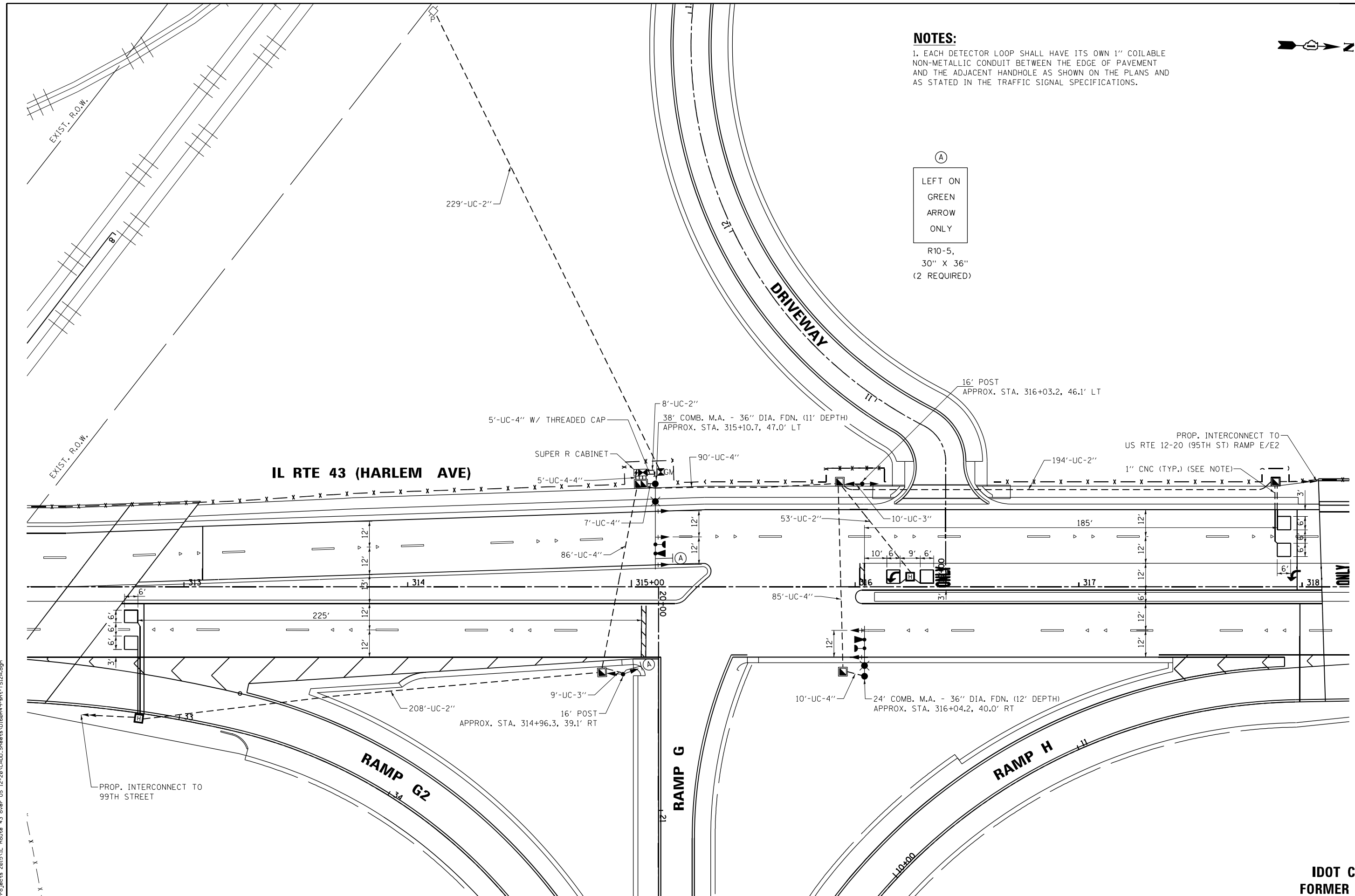




**NOTES:**

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

(A)  
LEFT ON  
GREEN  
ARROW  
ONLY  
R10-5,  
30" X 36"  
(2 REQUIRED)



FILE NAME = K:\PROJECTS\Projects 2015\IL Route 43 over US 12-20\CADD\_Sheets\160R49-sh-TS12A.dgn

**GA** GANDHI AND ASSOCIATES, INC.  
ENGINEERS AND PLANNERS  
SUITE 200 NORTHWEST HIGHWAY  
CHICAGO, ILLINOIS 60659 TEL: 773-774-590

USER NAME = #USER#	DESIGNED - EA	REVISED -
PLOT SCALE = #SCALE#	DRAWN - AV, EA	REVISED -
PLOT DATE = 12/14/2023	CHECKED - PKG, MS	REVISED -
	DATE - 10/09/2023	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

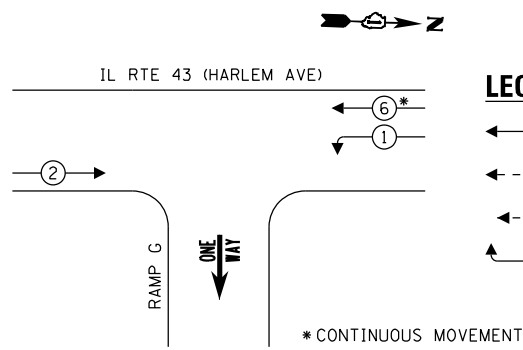
**TRAFFIC SIGNAL INSTALLATION PLAN  
IL RTE 43 (HARLEM AVE) AT US RTE 12-20 (95TH ST) EB RAMP G**  
SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 284
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				

**TS 12531  
IDOT CENTRACS  
FORMER ECON 61**



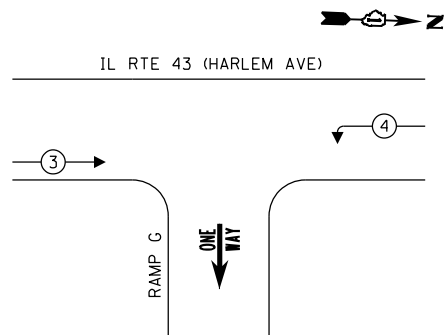
**PROPOSED CONTROLLER SEQUENCE**



**LEGEND:**

- ← (1) ← \* → PROTECTED PHASE
- ← - (1) - \* - → PROTECTED/PERMITTED PHASE
- ← (1) ← \* → PEDESTRIAN PHASE
- ← (1) ← \* → OL OVERLAP

**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	6	11	50	33.0
(YELLOW)	6	20	5	6.0
(GREEN)	8	12	45	43.2
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	20	100	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	175	50	175.0
TOTAL =				382.2

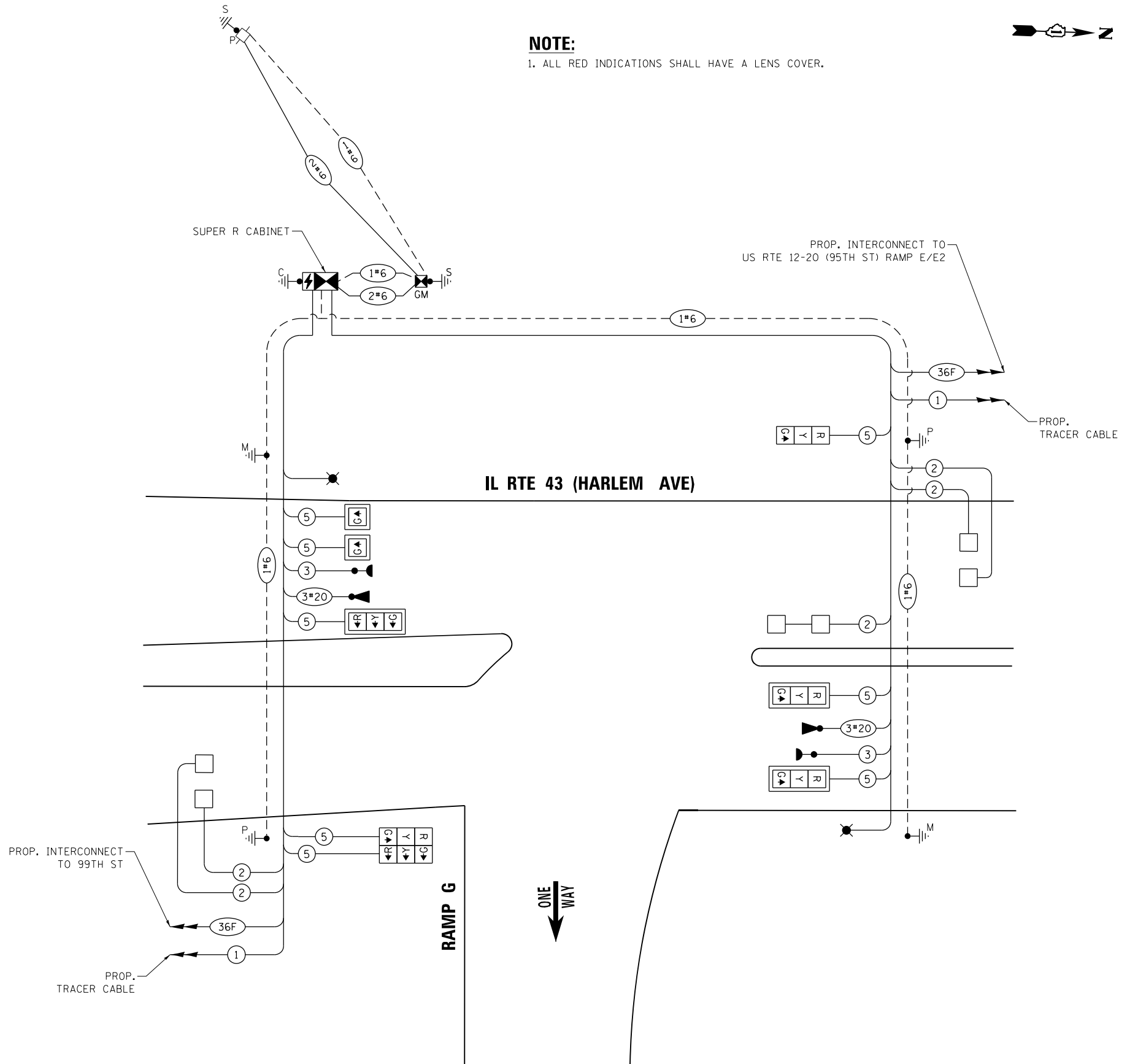
ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196

ENERGY SUPPLY: CONTACT: CATHY BABICA  
PHONE: (630) 985-4074  
COMPANY: COMMONWEALTH EDISON  
ACCOUNT NUMBER: 46630-61134

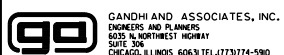
**NOTE:**

1. ALL RED INDICATIONS SHALL HAVE A LENS COVER.



**CABLE PLAN**  
(NOT TO SCALE)

FILE NAME = K:\PROJECTS\Projects 2015\IL Route 43 over US 12-20\CADD\_Sheets\DI60R49-ent-TS12B.dgn



USER NAME = #USER#  
DESIGNED - EA  
DRAWN - AV, EA  
PLOT SCALE = #SCALE#  
PLOT DATE = 12/14/2023

REVISOR -  
REVISION -  
CHECKED - PKG, MS  
DATE - 10/09/2023

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
IL RTE 43 (HARLEM AVE) AT US RTE 12-20 (95TH ST) EB RAMP G**  
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 285
CONTRACT NO. 60R49				ILLINOIS FED. AID PROJECT

**TS 12531  
IDOT CENTRACS  
FORMER ECON 61**

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	15
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	692
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	19
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	303
HANDHOLE	EACH	4
HEAVY-DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	349
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1170
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1479
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	287
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	713
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 24 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	23
SIGNAL HEAD, LED, 1-FACE, 1-SECTION, MAST-ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	5
INDUCTIVE LOOP DETECTOR	EACH	5
DETECTOR LOOP, TYPE I	FOOT	235
* LIGHT DETECTOR	EACH	2
* LIGHT DETECTOR AMPLIFIER	EACH	1
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	349
FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
LED SIGNAL FACE, LENS COVER	EACH	6
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1
TERMINAL SERVER	EACH	1

\* 100% COST TO THE VILLAGE OF BRIDGEVIEW

**NOTE:**

1. IDOT WILL PROVIDE CENTRACS LICENSE.

FILE NAME = K:\PROJECTS\Projects 2015\IL Route 43 over US 12-20\CADD\_Sheets\DI60R49-ent-TS13.dgn



USER NAME = #USER#	DESIGNED - EA	REVISED -
DRAWN - AV, EA	REVISED -	
PLOT SCALE = #SCALE#	CHECKED - PKG, MS	REVISED -
PLOT DATE = 12/14/2023	DATE - 10/09/2023	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**  
**IL RTE 43 (HARLEM AVE) AT US RTE 12-20 (95TH ST) EB RAMP G**

SCALE: N.T.S.    SHEET NO.    OF    SHEETS    STA.    TO STA.

F.A.P. RTE. 29 & 34B	SECTION 3128-Z-1-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 286
CONTRACT NO. 60R49				ILLINOIS FED. AID PROJECT

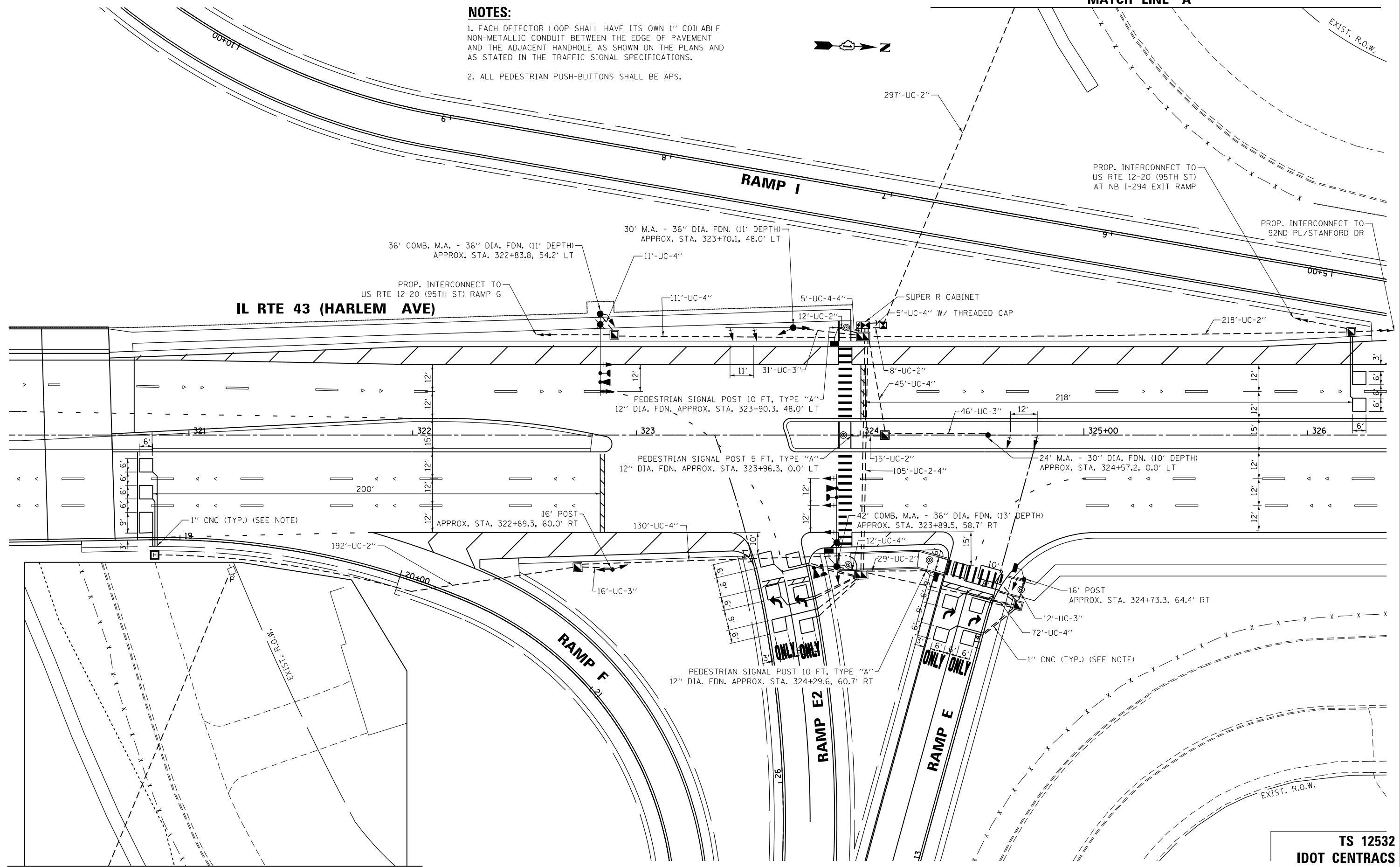
**TS 12531  
IDOT CENTRACS  
FORMER ECON 61**

**NOTES:**

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
2. ALL PEDESTRIAN PUSH-BUTTONS SHALL BE APS.



MATCH LINE "A"



MATCH LINE "A"

TS 12532  
IDOT CENTRACS  
FORMER ECON 61

FILE NAME =  
#FILES

**GA** GANDHI AND ASSOCIATES, INC.  
ENGINEERS AND PLANNERS  
5035 N. NORTHWEST HIGHWAY  
SUITE 200  
CHICAGO, ILLINOIS 60630 TEL: 773.774.590

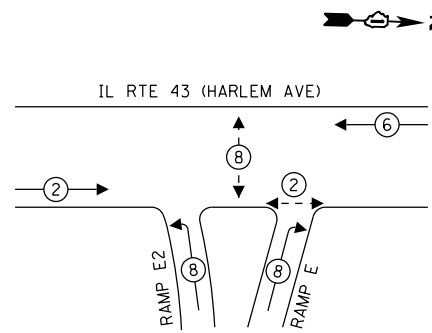
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	DRAWN - AV, EA	REVISED -
PLOT SCALE = #SCALE#	CHECKED - PKG, MS	REVISED -
PLOT DATE = #DATE#	DATE - 10/09/2023	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN  
IL RTE 43 (HARLEM AVE) AT US RTE 12-20 (95TH ST) EB RAMP E/E2  
SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 287
				CONTRACT NO. 60R49
ILLINOIS FED. AID PROJECT				

**PROPOSED CONTROLLER SEQUENCE**



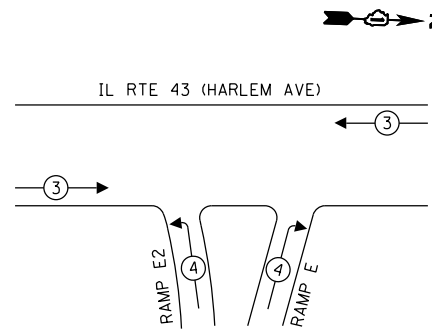
**LEGEND:**

- ← ⊛ → PROTECTED PHASE
- ← ⊛ - PROTECTED/PERMITTED PHASE
- ← ⊛ → PEDESTRIAN PHASE
- ← ⊛ OL OVERLAP

**NOTE:**

1. ALL RED INDICATIONS SHALL HAVE A LENS COVER.

**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



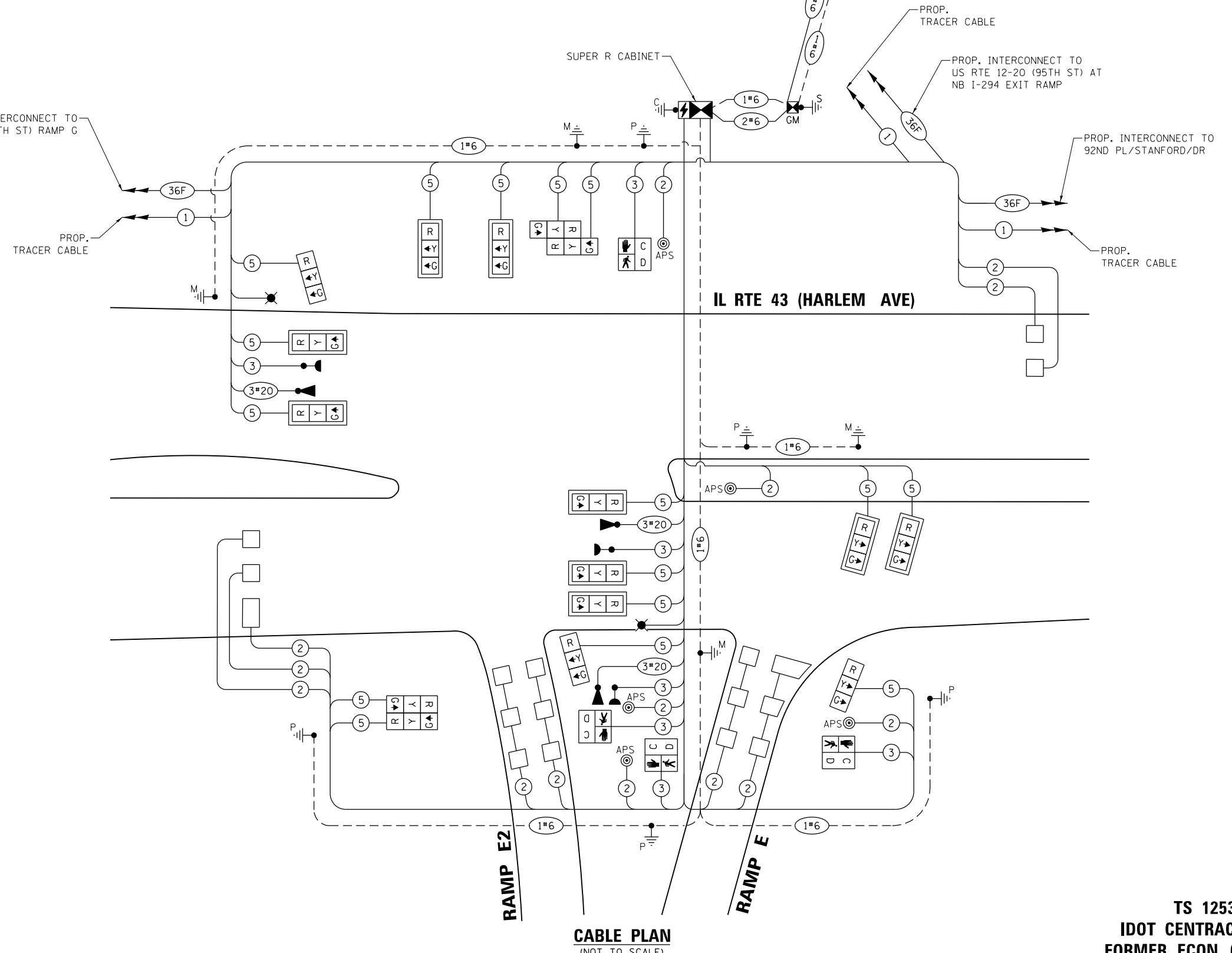
**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88.0
(YELLOW)	16	20	5	16.0
(GREEN)	16	12	45	86.4
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	175	50	175.0
TOTAL =				570.4

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196

ENERGY SUPPLY: CONTACT: CATHY BABICA  
PHONE: (630) 985-4074  
COMPANY: COMMONWEALTH EDISON  
ACCOUNT NUMBER: 46630-61134



**CABLE PLAN**  
(NOT TO SCALE)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE**  
IL RTE 43 (HARLEM AVE) AT US RTE 12-20 (95TH ST) EB RAMP E/E2  
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 29 & 348	SECTION 312B-Z-1-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 288
CONTRACT NO. 60R49				ILLINOIS FED. AID PROJECT

TS 12532  
IDOT CENTRACS  
FORMER ECON 61

DESIGNED - EA	REVISD -
DRAWN - AV, EA	REVISD -
CHECKED - PKG, MS	REVISD -
DATE - 10/09/2023	REVISD -

**SIGN PANEL – TYPE 1 OR TYPE 2**

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	13.75	2	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 2	SO FT	27.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	771
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	105
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	616
HANDHOLE	EACH	5
HEAVY-DUTY HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	720
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1244
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2892
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2646
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	355
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1275
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	35
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	7
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	9
INDUCTIVE LOOP DETECTOR	EACH	9
DETECTOR LOOP, TYPE I	FOOT	632
* LIGHT DETECTOR	EACH	3
* LIGHT DETECTOR AMPLIFIER	EACH	1
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	594
* FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
TERMINATE FIBER IN CABINET	EACH	36
PEDESTRIAN SIGNAL POST, 10 FT	EACH	2
PEDESTRIAN SIGNAL POST, 5 FT	EACH	1
LAYER III (NETWORK) SWITCH	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	5
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	12
LED SIGNAL FACE, LENS COVER	EACH	16
FIBER OPTIC INTERCONNECT CENTER, 48 PORT	EACH	1
TERMINAL SERVER	EACH	1

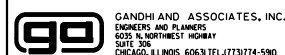
\* 100% COST TO THE VILLAGE OF BRIDGEVIEW

**NOTE:**

1. IDOT WILL PROVIDE CENTRACS LICENSE.

**TS 12532  
IDOT CENTRACS  
FORMER ECON 61**

FILE NAME =  
\$FILES\$



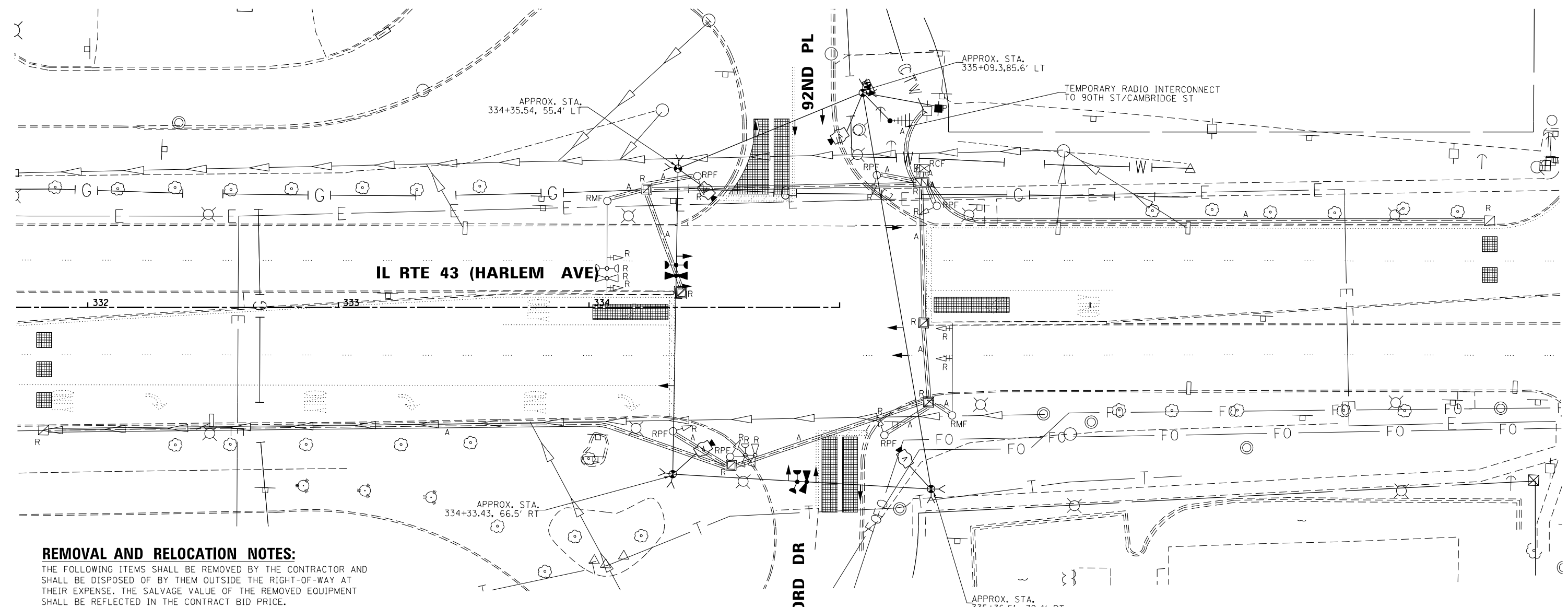
GANDHI AND ASSOCIATES, INC.  
ENGINEERS AND PLANNERS  
6035 N. NORTHWEST HIGHWAY  
SUITE 206  
CHICAGO, ILLINOIS 60630 TEL: 773-774-590

USER NAME = \$USER\$	DESIGNED - EA	REVISED -
	DRAWN - AV, EA	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - PKG, MS	REVISED -
PLOT DATE = \$DATE\$	DATE - 10/09/2023	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES</b>			
<b>IL RTE 43 (HARLEM AVE) AT US RTE 12-20 (95TH ST) EB RAMP E/E2</b>			
SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 289
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60R49	



**REMOVAL AND RELOCATION NOTES:**

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 2 EACH STEEL MAST ARM ASSEMBLY AND POST
- 6 EACH TRAFFIC SIGNAL POST
- 6 EACH 3-SECTION SIGNAL HEAD
- 4 EACH 5-SECTION SIGNAL HEAD
- 1 EACH SERVICE INSTALLATION
- 4 EACH TRAFFIC SIGNAL BACKPLATE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS:

- 2 EACH INTERNALLY ILLUMINATED STREET NAME SIGNS

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

NAME OF AGENCY: VILLAGE OF BRIDGEVIEW  
 CONTACT PERSON: MICHAEL DALY  
 DEPARTMENT: PUBLIC WORKS  
 PHONE NUMBER: (708) 594-2525

- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER

FILE NAME = K:\PROJECTS\Projects 2015\IL Route 43 over US 12-20\CADD\_Sheets\DI60R49-ah-1517.dgn



USER NAME = #USER#	DESIGNED - EA	REVISED -
PLOT SCALE = #SCALE#	DRAWN - AV, EA	REVISED -
PLOT DATE = 12/14/2023	CHECKED - PKG, MS	REVISED -
	DATE - 10/09/2023	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

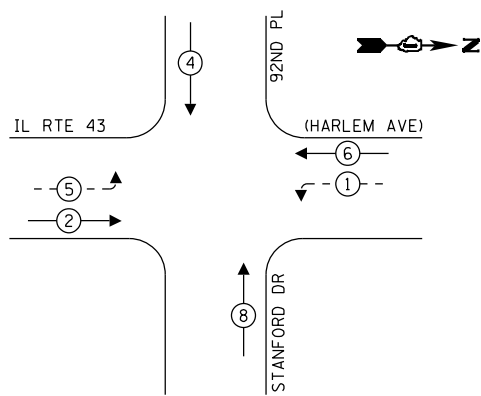
**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN  
AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN  
IL RTE 43 (HARLEM AVE) AND 92ND PL/STANFORD DR**

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 290
CONTRACT NO. 60R49				ILLINOIS FED. AID PROJECT

**TS 2335  
IDOT CENTRACS  
FORMER ECON 61**

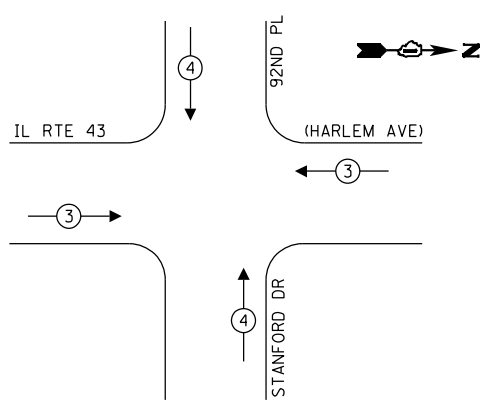
SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

**TEMPORARY CONTROLLER SEQUENCE**



- LEGEND:**
- ← ⊛ → PROTECTED PHASE
  - ← ⊛ - - PROTECTED/PERMITTED PHASE
  - ← ⊛ → PEDESTRIAN PHASE
  - ← ⊛ OL → OVERLAP

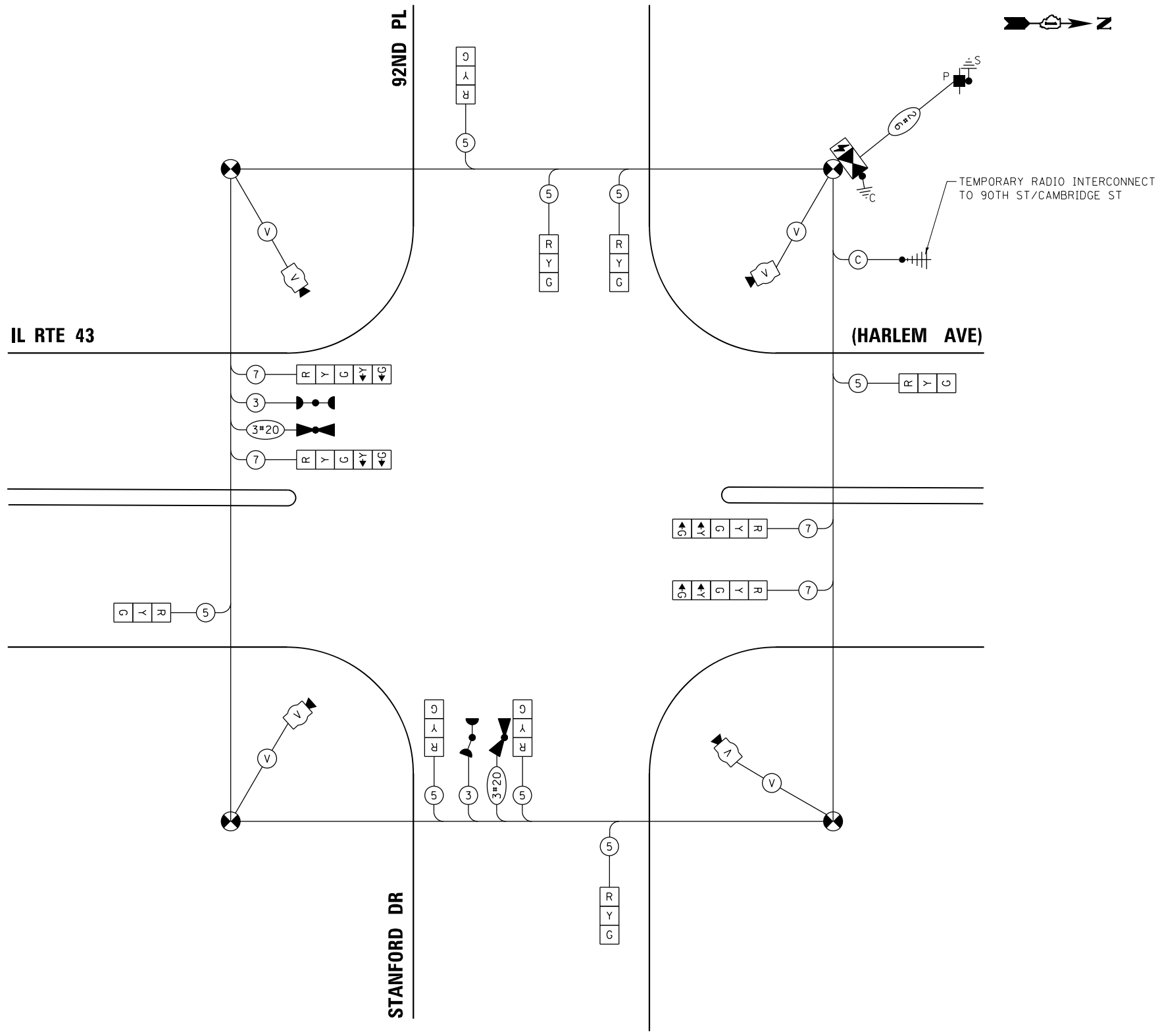
**TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	8	10	10	8.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				425.8

ENERGY COSTS TO:  
**VILLAGE OF BRIDGEVIEW**  
 7500 S OKETO AVENUE  
 BRIDGEVIEW, ILLINOIS 60455  
 ENERGY SUPPLY: CONTACT: CATHY BABICA  
 PHONE: (630) 985-4074  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER:



**CABLE PLAN**  
(NOT TO SCALE)

FILE NAME = K:\PROJECTS\Projects 2015\IL Route 43 over US 12-20\CADD\_Sheets\ID60R49-ant-TSIB.dgn

**GO** GANDHI AND ASSOCIATES, INC.  
 ENGINEERS AND PLANNERS  
 5035 N. NORTHWEST HIGHWAY  
 SUITE 308  
 CHICAGO, ILLINOIS 60630 TEL: (773) 774-590

DESIGNED - EA	REVISIONS
DRAWN - AV, EA	REVISIONS
CHECKED - PKG, MS	REVISIONS
DATE - 10/09/2023	REVISIONS

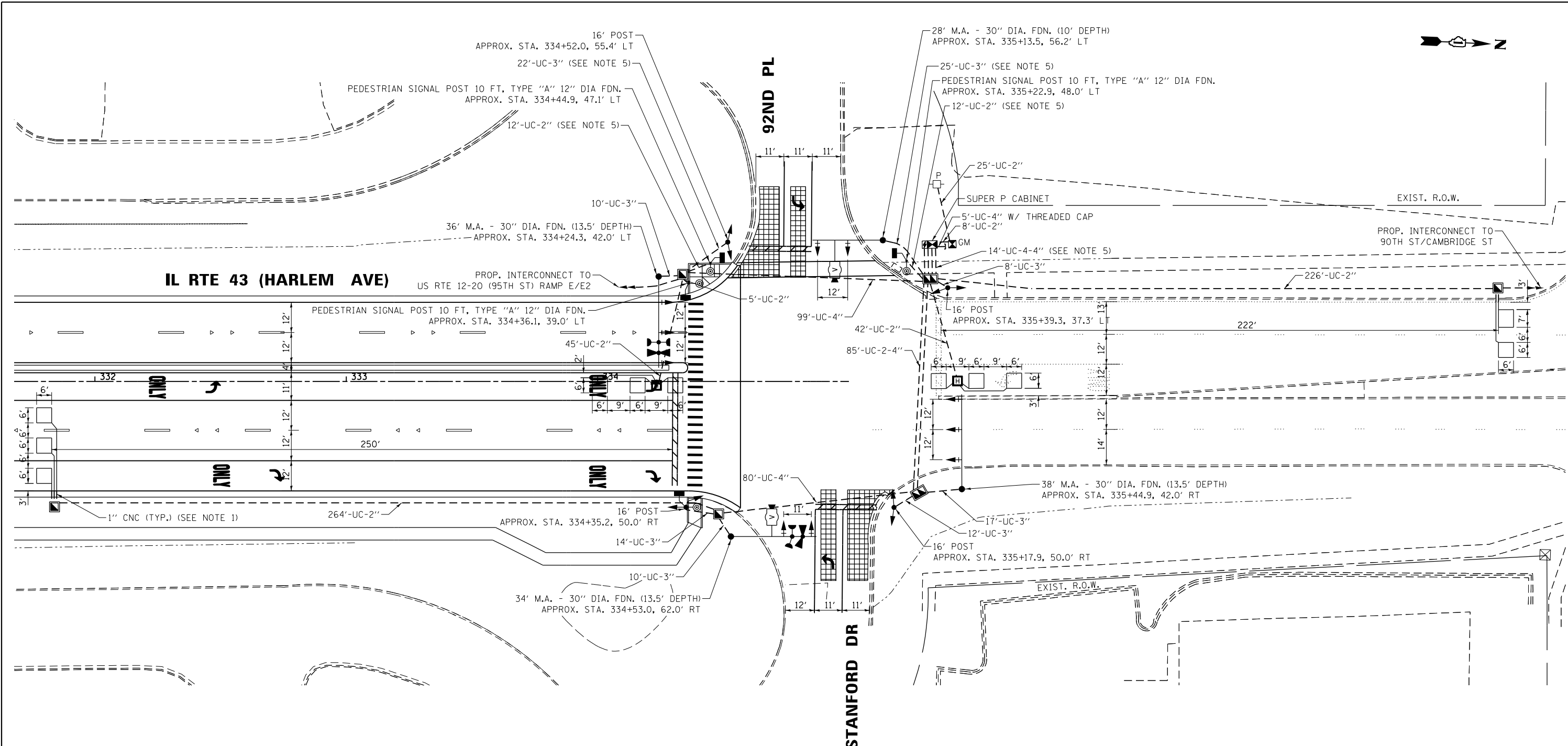
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE**  
**IL RTE 43 (HARLEM AVE) AT 92ND PL/STANFORD DR**  
 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 29 & 34B	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 291
CONTRACT NO. 60R49				

**TS 2335**  
**IDOT CENTRACS**  
**FORMER ECON 61**

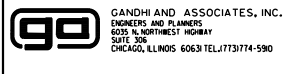




**NOTES:**

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
2. THE CONTRACTOR SHALL RELOCATE THE EXISTING INTERNALLY ILLUMINATED STREET NAME SIGNS TO THE PROPOSED MAST ARMS.
3. THE MOUNTING LOCATIONS OF THE VIDEO DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.
4. ALL PEDESTRIAN PUSH-BUTTONS SHALL BE APS.
5. CONTRACTOR SHALL INSTALL CONDUITS AT A DEPTH GREATER THAN 5' TO PROVIDE A MIN. CLEARANCE OF 1' BELOW THE EXISTING GAS LINE THEY WILL CROSS.

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USER NAME = #USER#	DESIGNED - EA	REVISED -
DRAWN - AV, EA	CHECKED - PKG, MS	REVISED -
PLOT SCALE = #SCALE#	DATE - 10/09/2023	REVISED -
PLOT DATE = #DATE#		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

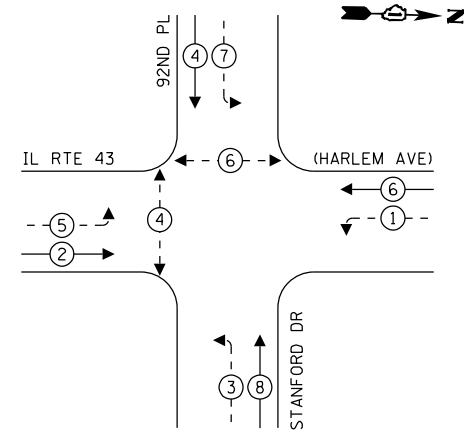
**TRAFFIC SIGNAL MODERNIZATION PLAN  
IL RTE 43 (HARLEM AVE) AT 92ND PL/STANFORD DR**

SCALE: 1"=20'    SHEET NO.    OF    SHEETS    STA.    TO    STA.

F.A.P. RTE. 29 & 348	SECTION 3128-Z-1-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 292
CONTRACT NO. 60R49				ILLINOIS FED. AID PROJECT

**TS 2335  
IDOT CENTRACS  
FORMER ECON 61**

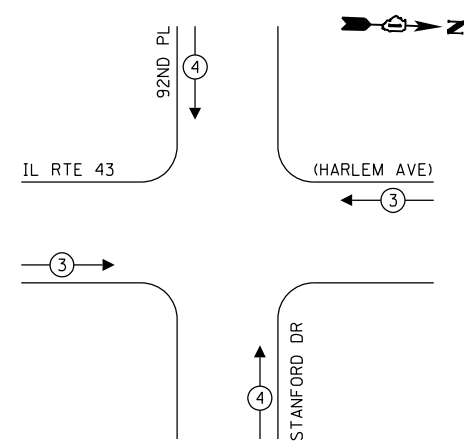
**PROPOSED CONTROLLER SEQUENCE**



**LEGEND:**

- ⊛ PROTECTED PHASE
- ⊛- PROTECTED/PERMITTED PHASE
- ⊛- PEDESTRIAN PHASE
- ⊛ OL OVERLAP

**PROPOSED EMERGENCY VEHICLE  
PREEMPTION SEQUENCE**



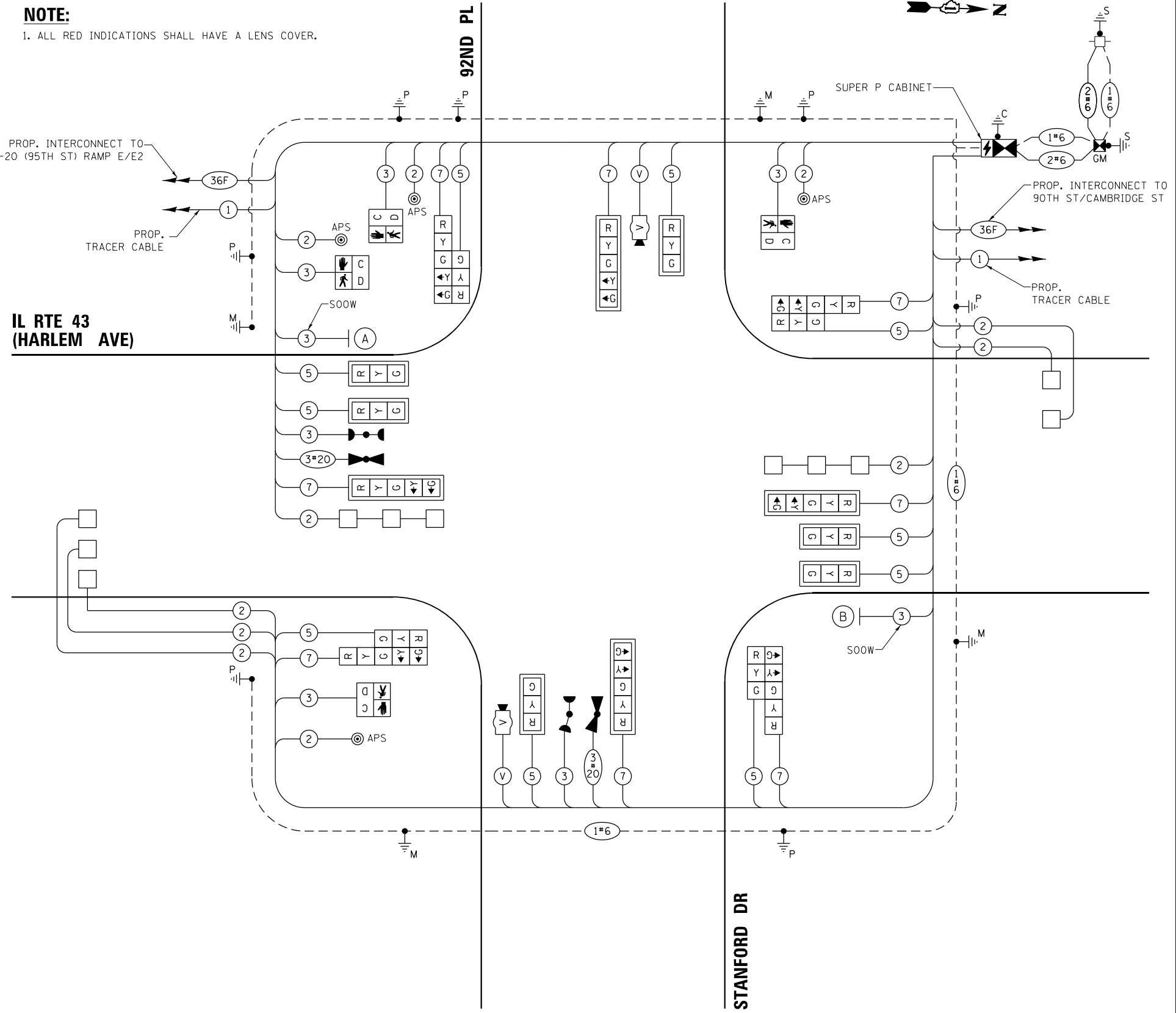
**NOTE:**

1. ALL RED INDICATIONS SHALL HAVE A LENS COVER.

PROP. INTERCONNECT TO  
US RTE 12-20 (95TH ST) RAMP E/E2

PROP. TRACER CABLE

**IL RTE 43  
(HARLEM AVE)**

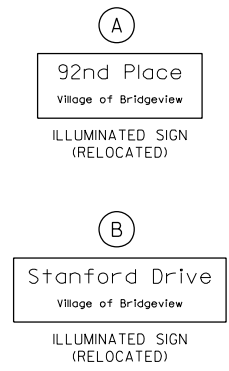


**CABLE PLAN**  
(NOT TO SCALE)

**TRAFFIC SIGNAL  
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	18	11	50	99.0
(YELLOW)	18	20	5	18.0
(GREEN)	18	12	45	97.2
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	2	120	50	120.0
LUMINAIRE	-	240	50	-
<b>TOTAL =</b>				<b>705.2</b>

ENERGY COSTS TO:  
**VILLAGE OF BRIDGEVIEW**  
 7500 S OKETO AVENUE  
 BIDGVIEW, ILLINOIS 60455  
 ENERGY SUPPLY: CONTACT: CATHY BABICA  
 PHONE: (630) 985-4074  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: 17390-11030



**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM,  
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  
IL RTE 43 (HARLEM AVE) AT 92ND PLACE/STANFORD DRIVE**

F.A.P. RTE. 29 & 34B	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 293
CONTRACT NO. 60R49				ILLINOIS FED. AID PROJECT

**TS 2335  
IDOT CENTRACS  
FORMER ECON 61**

FILE NAME = K:\PROJECTS\Projects 2015\IL Route 43 over US 12-20\CADD\Sheets\DI60R49-ent-1520.dgn

DESIGNED - EA	REVISD -
DRAWN - AV, EA	REVISD -
CHECKED - PKG, MS	REVISD -
DATE - 10/09/2023	REVISD -



**SIGN PANEL – TYPE 1 OR TYPE 2**

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	13.75	2	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

**SCHEDULE OF QUANTITIES**

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 2	FOOT	27.5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	639
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	118
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	410
HANDHOLE	EACH	4
HEAVY-DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	2
* PAINT NEW TRAFFIC SIGNAL POST	EACH	7
* PAINT NEW MAST ARM AND POLE, UNDER 40 FOOT	EACH	4
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	600
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1110
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1743
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1429
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2261
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	88
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	743
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	50.5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	7
DETECTOR LOOP, TYPE I	FOOT	383
* LIGHT DETECTOR	EACH	2
* LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
* RELOCATE EXISTING ILLUMINATED SIGN	EACH	2
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	7
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	481
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
PEDESTRIAN SIGNAL POST, 10 FT	EACH	3
VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
* ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE S00W	FOOT	343
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	12
LED SIGNAL FACE, LENS COVER	EACH	18
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1

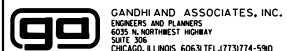
\* 100% COST TO THE VILLAGE OF BRIDGEVIEW

**NOTE:**

1. IDOT WILL PROVIDE CENTRACS LICENSE.

**TS 2335  
IDOT CENTRACS  
FORMER ECON 61**

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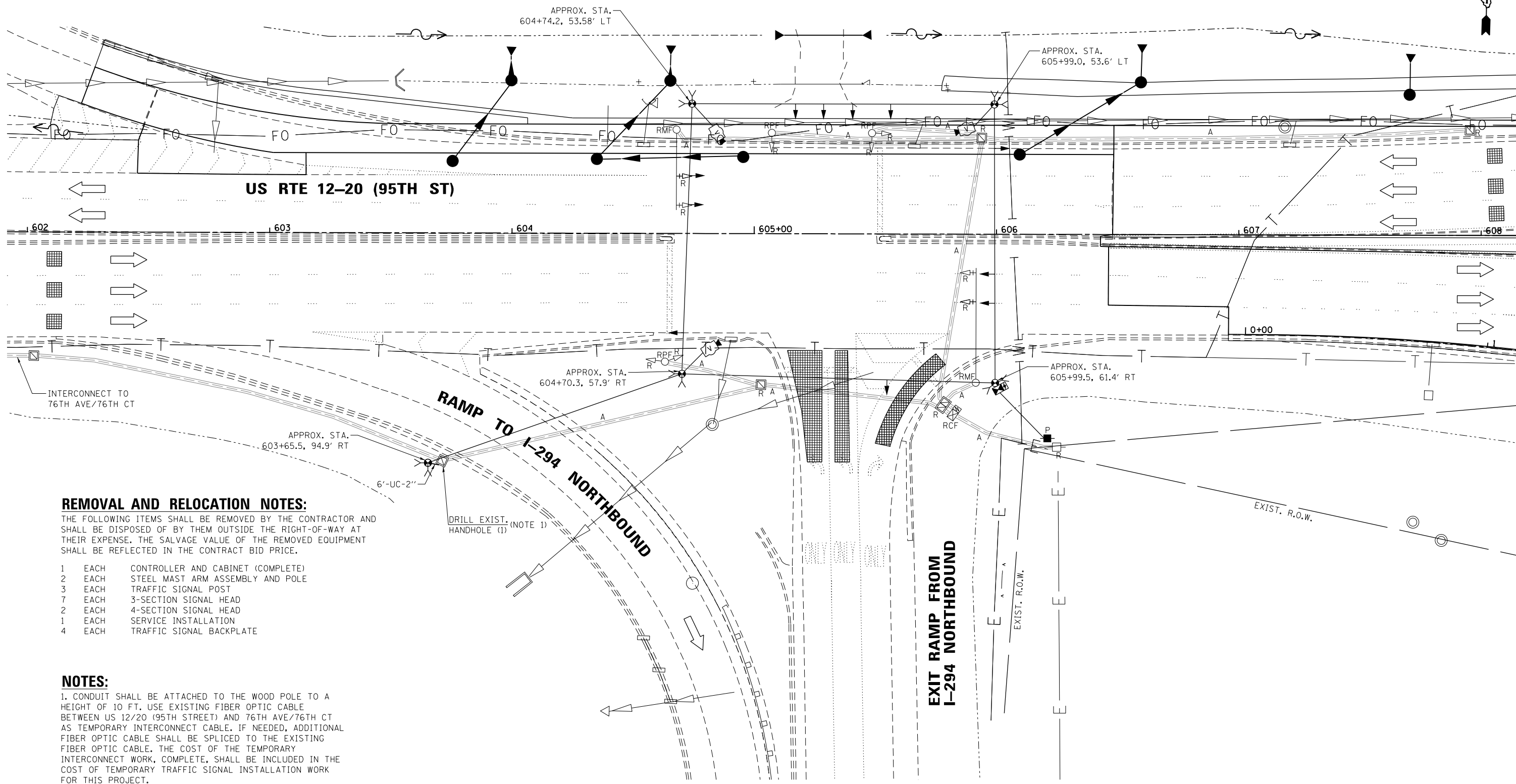


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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES</b>			
<b>IL RTE 43 (HARLEM AVE) AT 92ND PLACE/STANFORD DRIVE</b>			
SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 294
CONTRACT NO. 60R49				ILLINOIS FED. AID PROJECT



**REMOVAL AND RELOCATION NOTES:**

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 2 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 3 EACH TRAFFIC SIGNAL POST
- 7 EACH 3-SECTION SIGNAL HEAD
- 2 EACH 4-SECTION SIGNAL HEAD
- 1 EACH SERVICE INSTALLATION
- 4 EACH TRAFFIC SIGNAL BACKPLATE

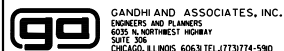
**NOTES:**

1. CONDUIT SHALL BE ATTACHED TO THE WOOD POLE TO A HEIGHT OF 10 FT. USE EXISTING FIBER OPTIC CABLE BETWEEN US 12/20 (95TH STREET) AND 76TH AVE/76TH CT AS TEMPORARY INTERCONNECT CABLE. IF NEEDED, ADDITIONAL FIBER OPTIC CABLE SHALL BE SPLICED TO THE EXISTING FIBER OPTIC CABLE. THE COST OF THE TEMPORARY INTERCONNECT WORK, COMPLETE, SHALL BE INCLUDED IN THE COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION WORK FOR THIS PROJECT.

THE EXISTING FIBER OPTIC CABLE, AFTER ITS USE AS TEMPORARY INTERCONNECT CABLE, SHALL BE REMOVED ALONG WITH THE TRACER CABLE. THIS WORK WILL BE PAID FOR AS "REMOVE ELECTRIC CABLE FROM CONDUIT" UNDER THE INTERCONNECT PLANS.

2. REMOVE THE EXISTING LEAD IN, NO. 14 1 PAIR CABLE BETWEEN THE EXISTING HANDHOLE AT THE FAR OUT LOOPS ON THE WEST APPROACH AND THE EXISTING HANDHOLE IN THE SOUTHWEST CORNER OF ENTRANCE RAMP TO NORTHBOUND I-294. THIS WORK WILL BE PAID FOR AS "REMOVE ELECTRIC CABLE FROM CONDUIT".

FILE NAME =  
#FILES#



GANDHI AND ASSOCIATES, INC.  
ENGINEERS AND PLANNERS  
5035 N. NORTHWEST HIGHWAY  
SUITE 300  
CHICAGO, ILLINOIS 60639 TEL: 773/774-590

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

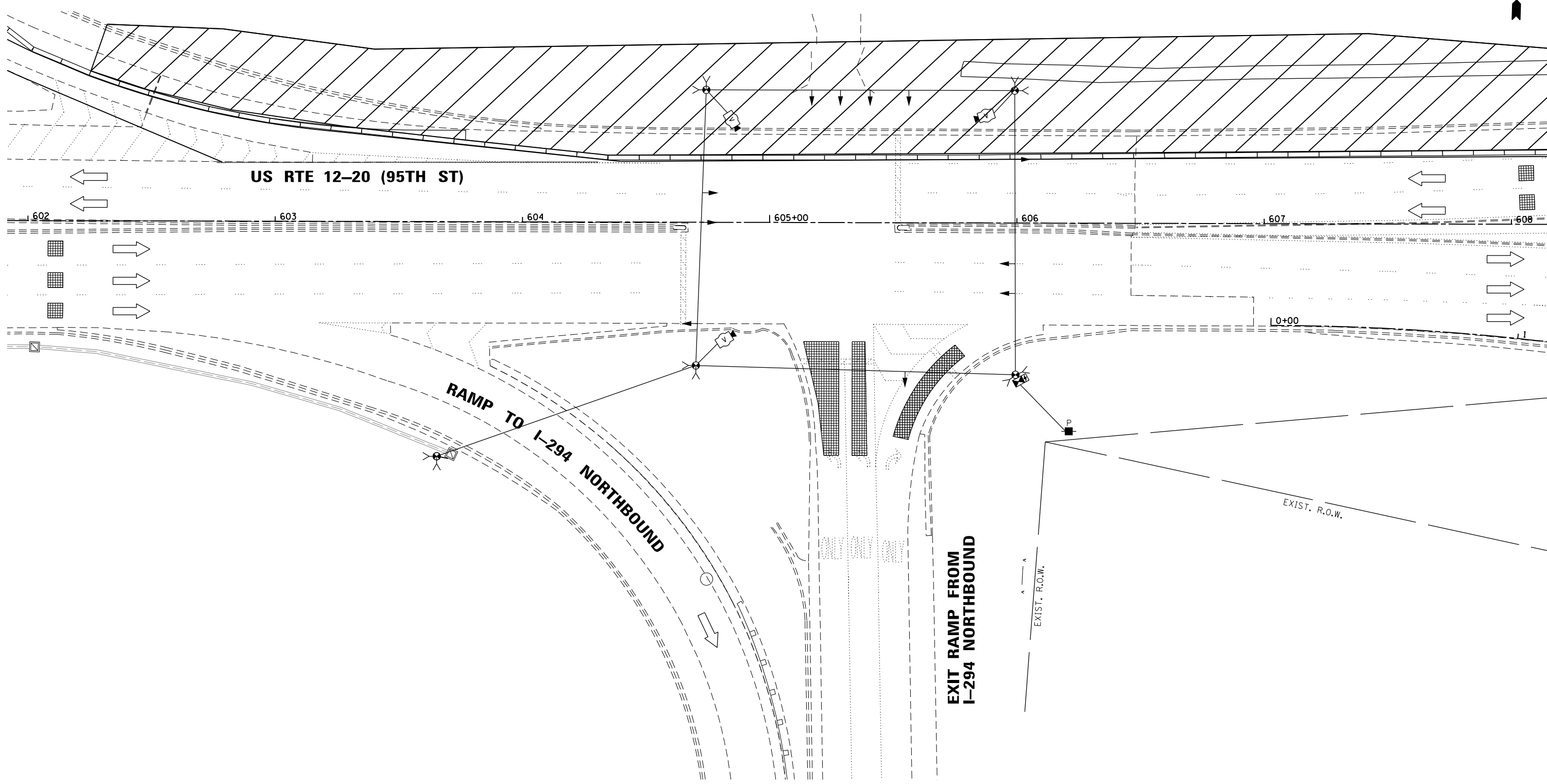
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND  
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN (SHEET 1 OF 5)  
US RTE 12-20 (95TH ST) AT NB I-294 EXIT RAMP

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

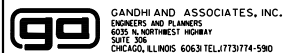
F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 295
				CONTRACT NO. 60R49

ILLINOIS FED. AID PROJECT

TS 427  
ECON 59



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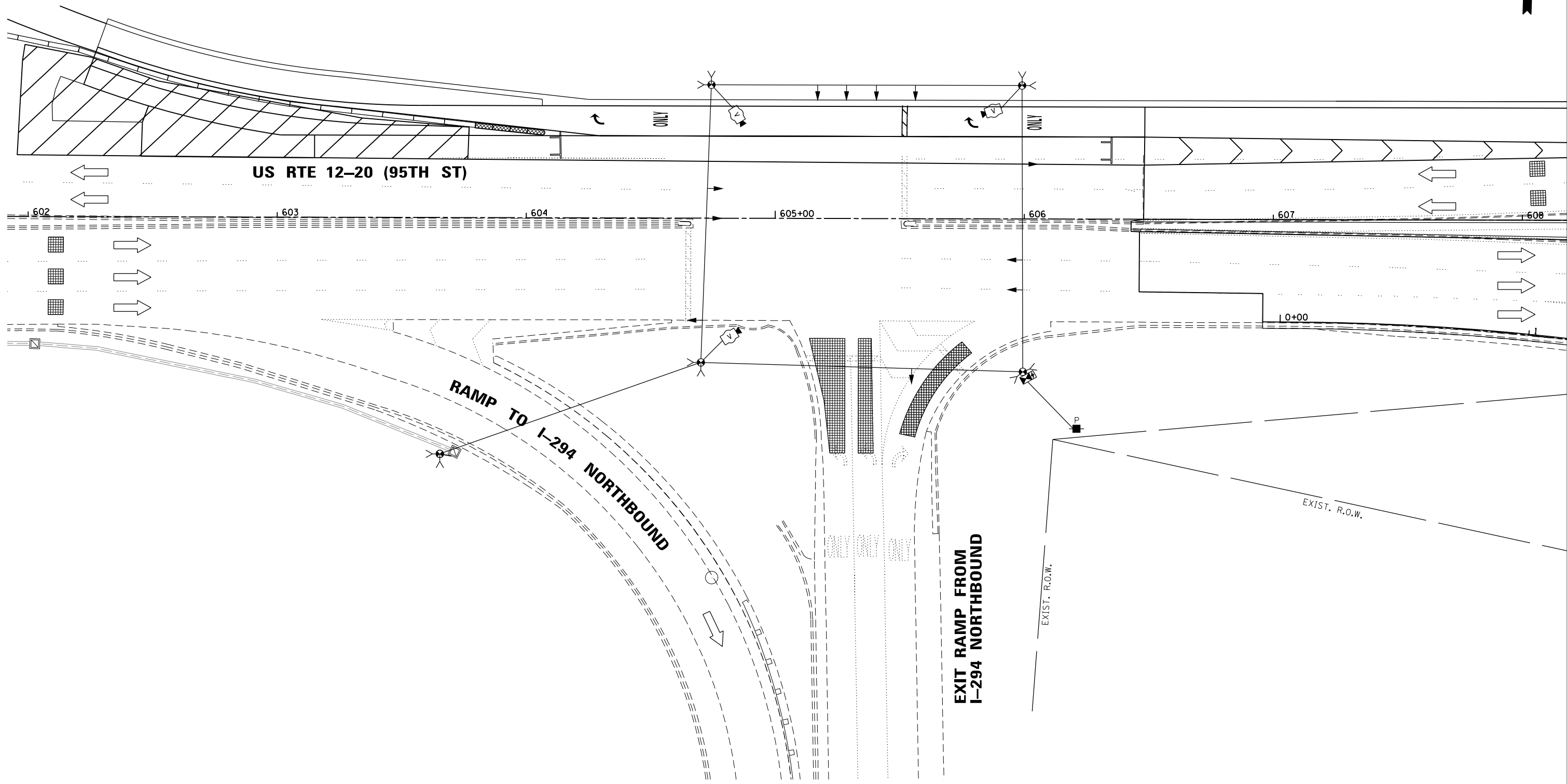
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN  
STAGE 1 (SHEET 2 OF 5)  
US RTE 12-20 (95TH ST) AT NB I-294 EXIT RAMP**

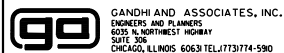
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F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 296
CONTRACT NO. 60R49			ILLINOIS FED. AID PROJECT	

**TS 427  
ECON 59**



FILE NAME =  
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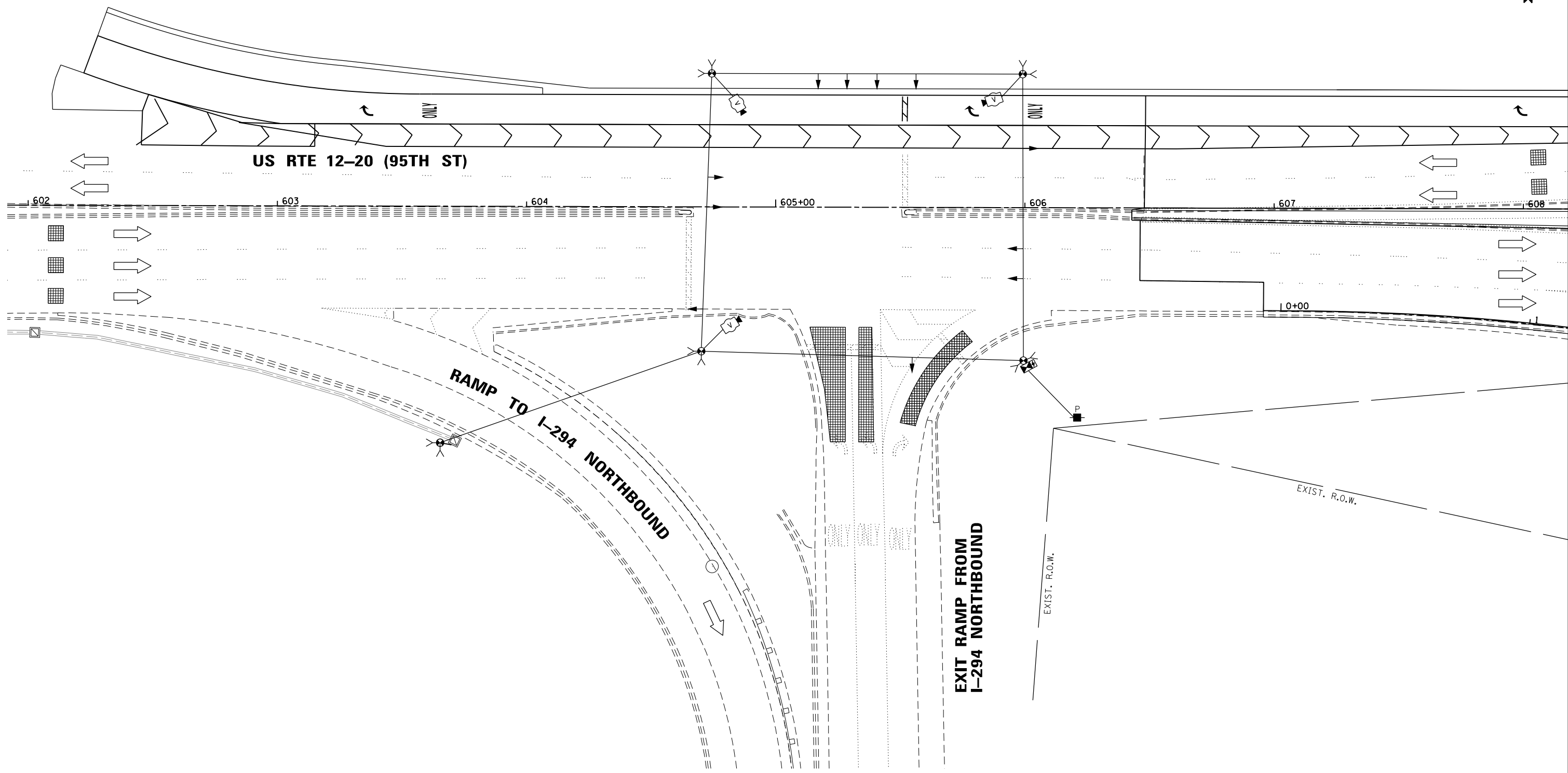
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN  
STAGE 2 (SHEET 3 OF 5)  
US RTE 12-20 (95TH ST) AT NB I-294 EXIT RAMP**

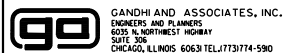
SCALE: 1"=20'    SHEET NO.    OF    SHEETS    STA.    TO STA.

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 297
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60R49	

**TS 427  
ECON 59**



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DATE - 10/09/2023	REVISED -	

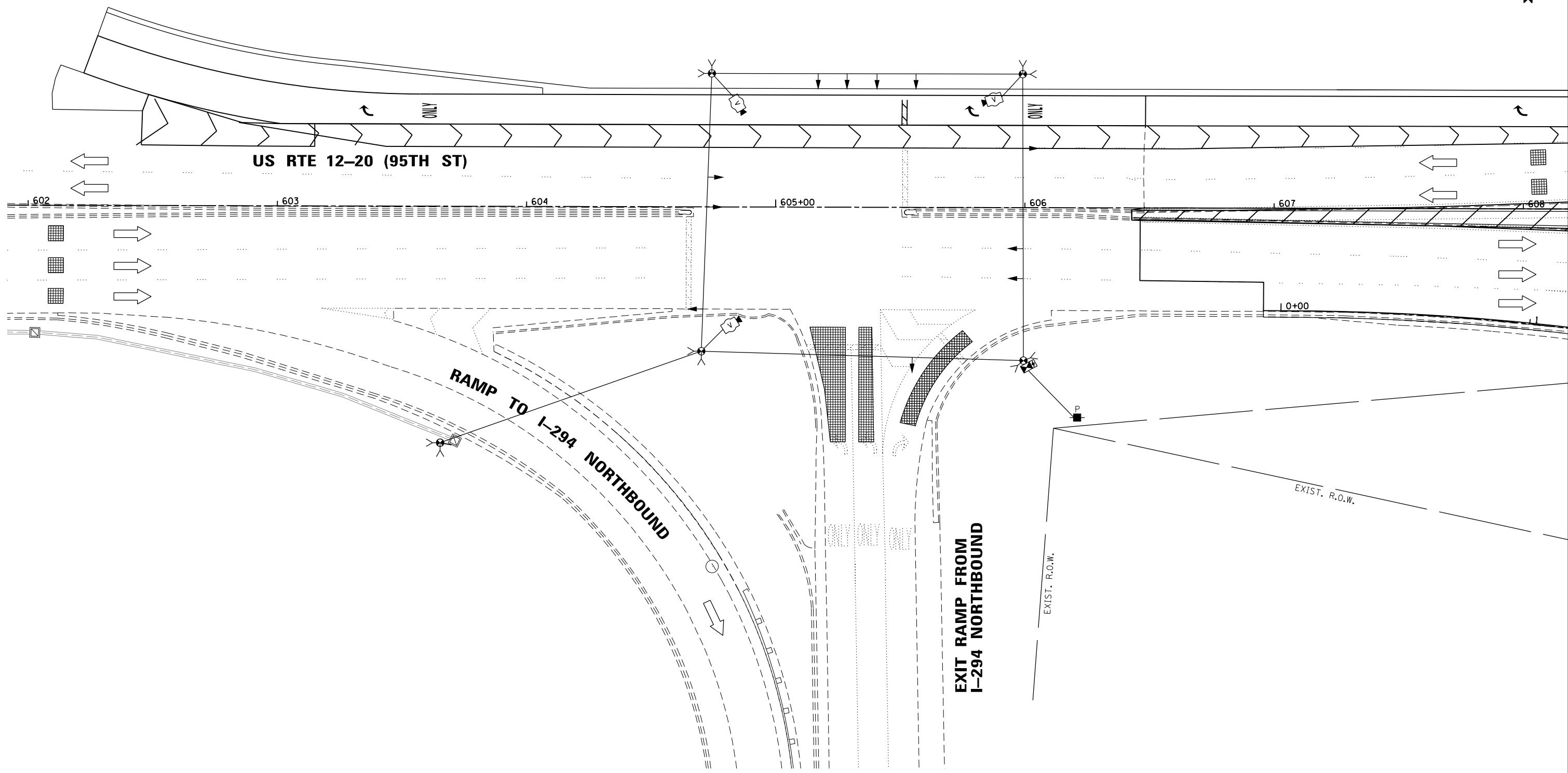
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN  
STAGE 3 (SHEET 4 OF 5)  
US RTE 12-20 (95TH ST) AT NB I-294 EXIT RAMP**

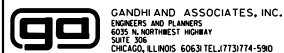
F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 298
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60R49	

**TS 427  
ECON 59**

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.



FILE NAME =  
#FILES#



USER NAME = #USER#	DESIGNED - EA	REVISED -
DRAWN - AV, EA	CHECKED - PKG, MS	REVISED -
PLOT SCALE = #SCALE#	DATE - 10/09/2023	REVISED -
PLOT DATE = #DATE#		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN  
STAGE 4 (SHEET 5 OF 5)  
US RTE 12-20 (95TH ST) AT NB I-294 EXIT RAMP**

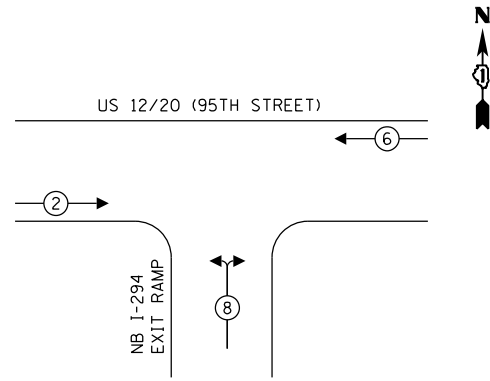
SCALE: 1"=20'      SHEET NO.      OF      SHEETS      STA.      TO      STA.

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 299
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60R49	

**TS 427  
ECON 59**

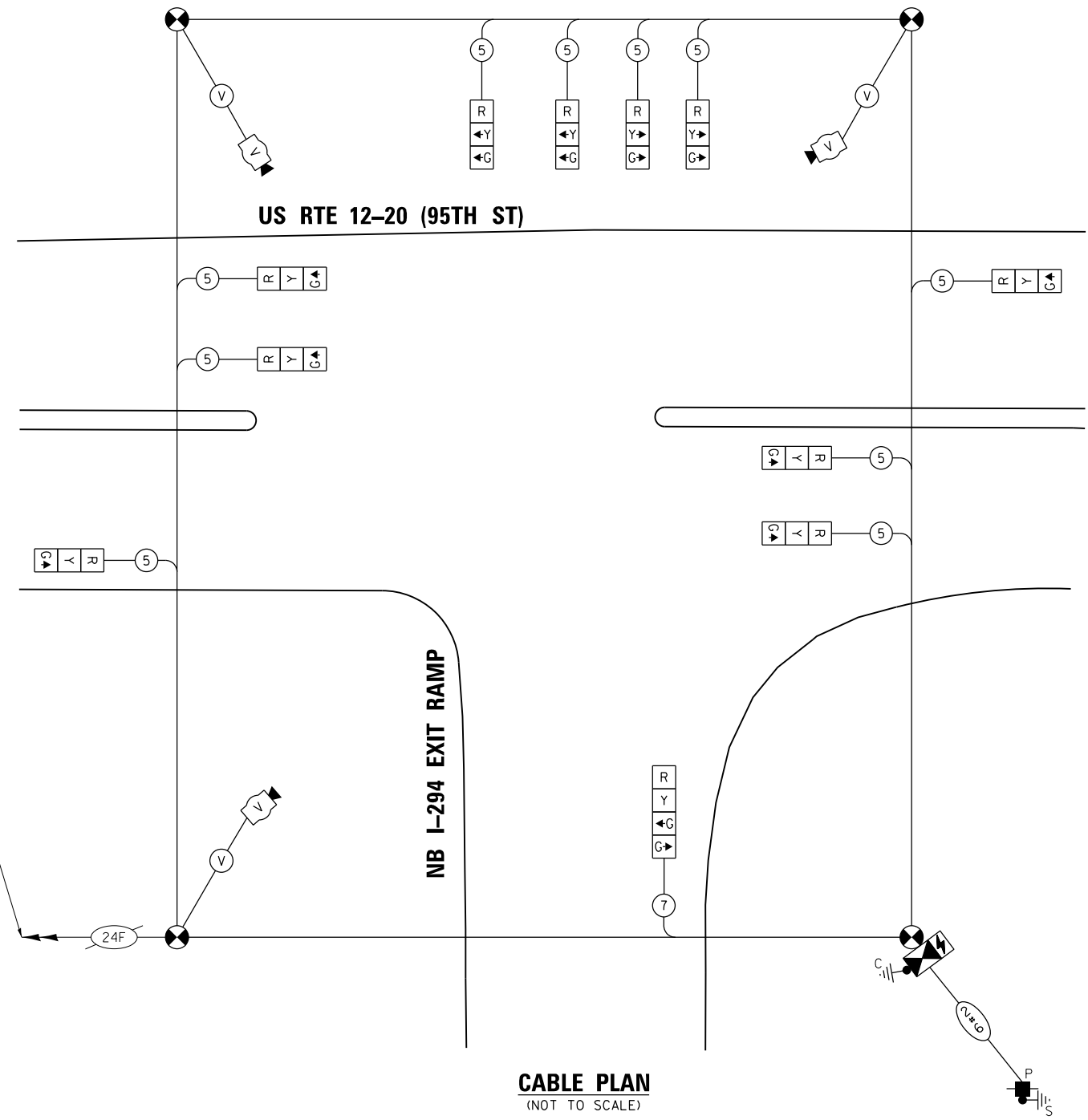


**PROPOSED CONTROLLER SEQUENCE**



**LEGEND:**

- ← ⊛ → PROTECTED PHASE
- ← ⊛ ⊛ → PROTECTED/PERMITTED PHASE
- ← ⊛ ⊛ → PEDESTRIAN PHASE
- ← ⊛ ⊛ → OL OVERLAP



**CABLE PLAN**  
(NOT TO SCALE)

TEMPORARY FIBER INTERCONNECT  
TO 76TH AVE/76TH CT

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	11	11	50	60.5
(YELLOW)	11	20	5	11.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				411.3

ENERGY COSTS TO:  
**VILLAGE OF BRIDGEVIEW**  
 7500 S OKETO AVENUE  
 BRIDGEVIEW, ILLINOIS 60455  
 ENERGY SUPPLY: CONTACT: CATHY BABICA  
 PHONE: (630) 985-4074  
 COMPANY: COMMONWEALTH EDISON  
 ACCOUNT NUMBER: ---

DESIGNED - EA	REVISER -
DRAWN - AV, EA	REVISIONS -
CHECKED - PKG, MS	REVISIONS -
DATE - 10/09/2023	REVISIONS -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN AND TEMPORARY PHASE DESIGNATION DIAGRAM**  
**US RTE 12-20 (95TH ST) AT NB I-294 EXIT RAMP**  
 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 29 & 348	SECTION 312B-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 300
CONTRACT NO. 60R49			ILLINOIS FED. AID PROJECT	

**TS 427**  
**ECON 59**

FILE NAME = #FILES#

