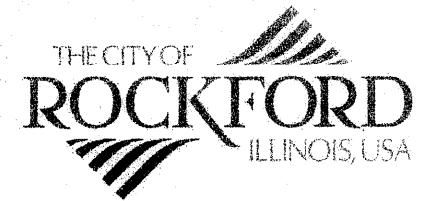


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	08-00520-02-MS	WINNEBAGO	10	1



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HARRISON AVENUE IRRIGATION SYSTEM**

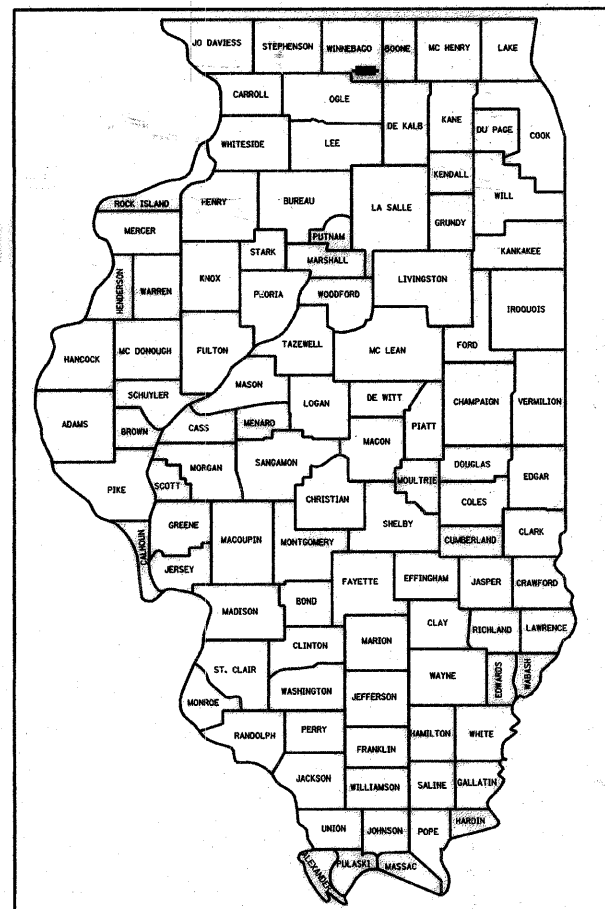
F.A. ROUTE 525  
SECTION 08-00520-02-MS  
PROJECT NO. M-5099(086)  
CITY OF ROCKFORD  
JOB NO. C-92-108-09

INDEX OF SHEETS

SHEET	DESCRIPTION
1	COVER SHEET
2	SUMMARY OF QUANTITIES, DETAIL
3	DETAIL AND GENERAL NOTES
4-10	PLAN SHEETS

STANDARDS

442201-03	CLASS C AND D PATCHES
701006-03	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701601-06	URBANE LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRANSVERSABLE MEDIAN
701701-06	LANE CLOSURE, MULTILANE INTERSECTION
701801-04	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-01	TRAFFIC CONTROL DEVICES
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPE A AND B METAL POSTS (FOR SIGNS AND MARKERS)



LOCATION OF SECTION INDICATED THIS: [Black Box]

**CITY OF ROCKFORD**  
Jeff Butz  
Engineering Division  
425 E. State Street  
Rockford, IL 61104  
(815) 961-3766

**NICOR GAS COMPANY**  
Scott Puffer  
300 West Terra Cotta Ave.  
Crystal Lake, IL 60014  
(815) 965-5416 Ext.211

**AT&T COMPANY (LONG DISTANCE)**  
Brian Crull  
216 N. Main Street  
Rockford, IL 61101  
(312) 441-2020

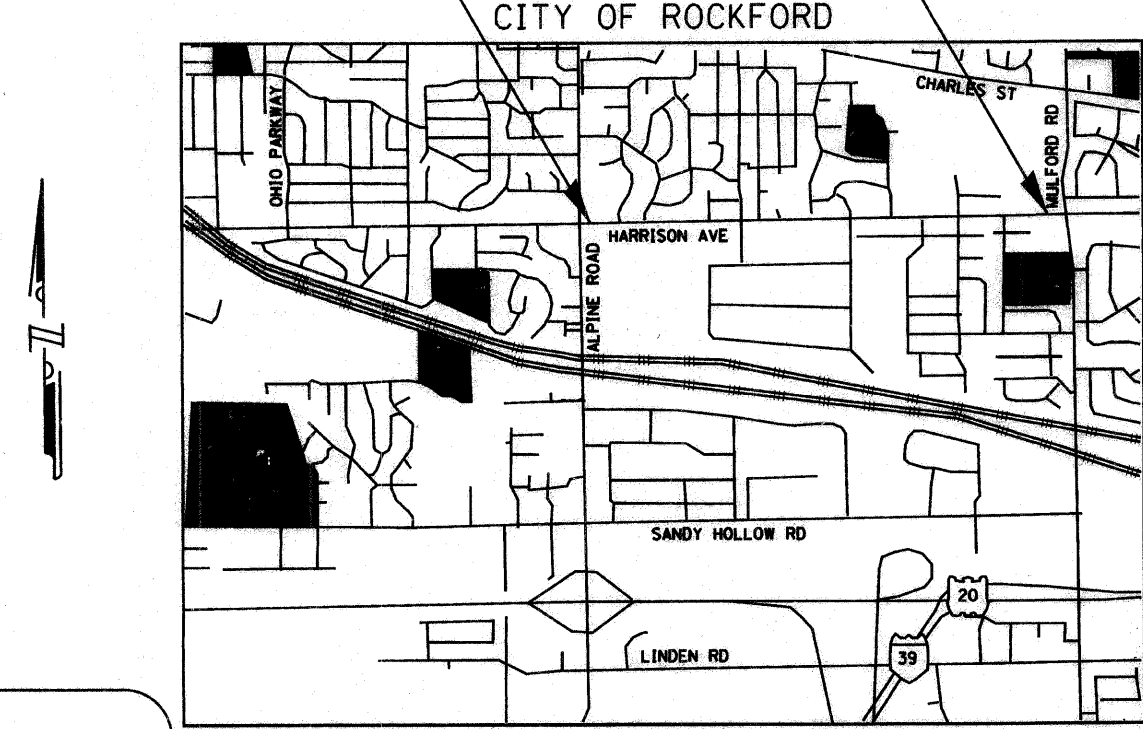
**COM ED**  
Mike Lenox  
123 Energy Avenue  
Rockford, IL 61103  
(630) 437-2129

**AT&T COMPANY**  
Steven Jones  
2404 8th Avenue  
Rockford, IL 61108  
(815) 394-7270

**INSIGHT COMMUNICATIONS**  
Michael Owens  
4450 Kishwaukee Street  
Rockford, IL 61109  
(815) 395-8977

**ROCK RIVER WATER RECLAMATION DISTRICT**  
Dana Carroll  
3333 Kishwaukee Street  
P.O. Box 7480  
Rockford, IL 61126-7480  
(815) 397-7660

RECONSTRUCTION PROJECT BEGINS STA. 201+00.00  
RECONSTRUCTION PROJECT ENDS STA. 279+00.00



PROJECT LENGTH = 7,800.00 FEET / 1.477 MILES  
NET LENGTH = 7,800.00 FEET / 1.477 MILES

LOCATION MAP

ADT : 30200  
RTE CLASS : PRINCIPAL ARTERIAL  
DESIGN SPEED : 50 MPH

"MISSMAN, STANLEY & ASSOCIATES (MISSMAN) HAS ADOPTED SAFETY PROCEDURES FOR ITS EMPLOYEES WHO PROVIDE PROFESSIONAL ENGINEERING AND SURVEYING SERVICES. A COPY OF THESE PROCEDURES IS AVAILABLE FROM THE SAFETY OFFICER. MISSMAN PERSONNEL ARE NOT TRAINED IN CONTRACTOR (CONSTRUCTION) SAFETY AND COMPLIANCE PROCEDURES. THE METHODS & MEANS TO COMPLY WITH CONSTRUCTION SITESAFETY ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR."



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

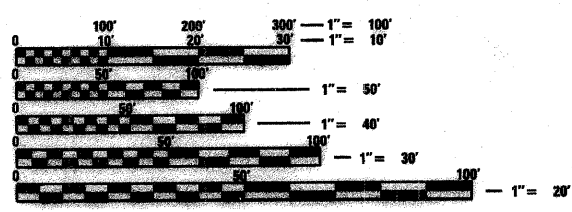
APPROVED: FEB. 4 20 09  
Joan Hollander, P.E.  
CITY ENGINEER, CITY OF ROCKFORD

PASSED: February 20 20 09  
Corey J. Stout  
DISTRICT ENGINEER-LOCAL ROADS AND STREETS

RELEASED FOR BID  
BASED ON LIMITED REVIEW: February 20 20 09  
Gregory J. Reynolds  
DEPUTY DIRECTOR OF HIGHWAYS, REGION TWO ENGINEER

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF ILLINOIS.

Corey J. Stout  
COREY J. STOUT DATE 2/4/09  
REG. NO. 062-052830 RENEWAL DATE 11/30/2009



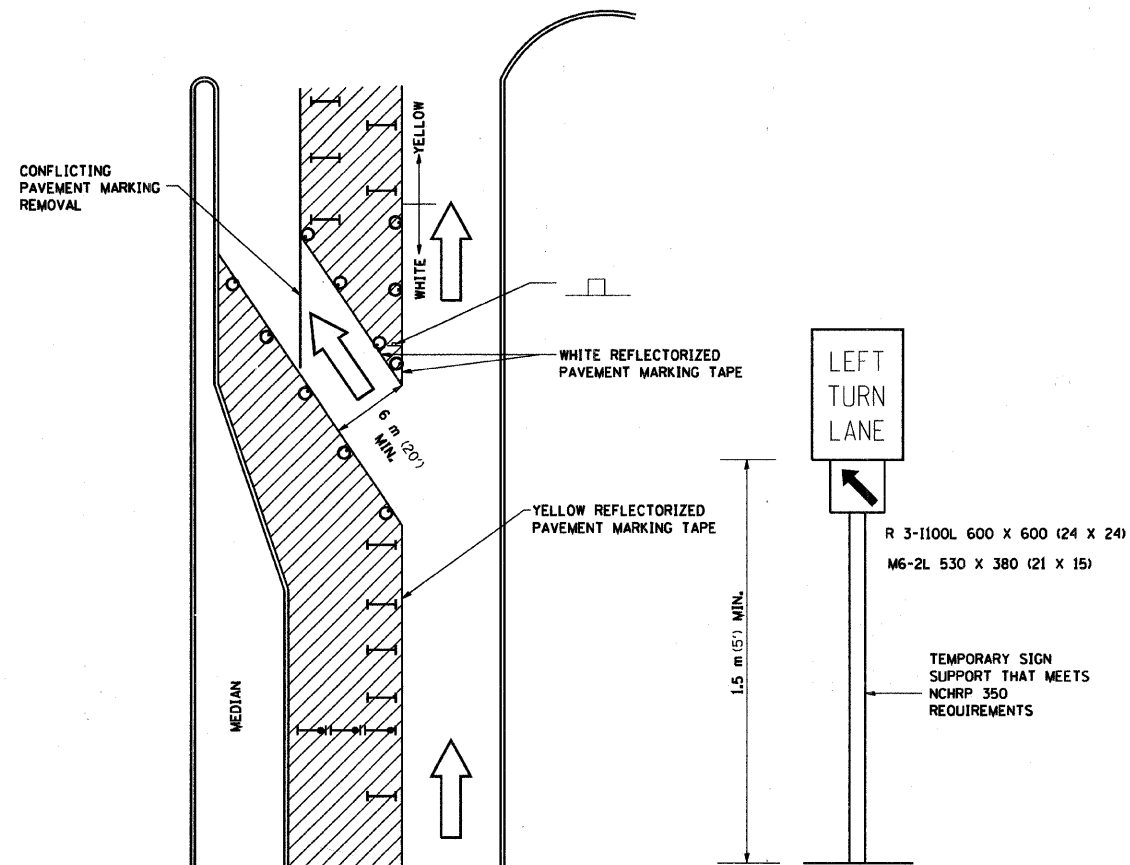
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

CONTRACT NO. 85455

**UTILITY NOTE**  
THE LOCATIONS OF THOSE BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVE GROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITY MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES, REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

# TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)



### LEGEND

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

REVISED - 10-15-04

### GENERAL NOTES

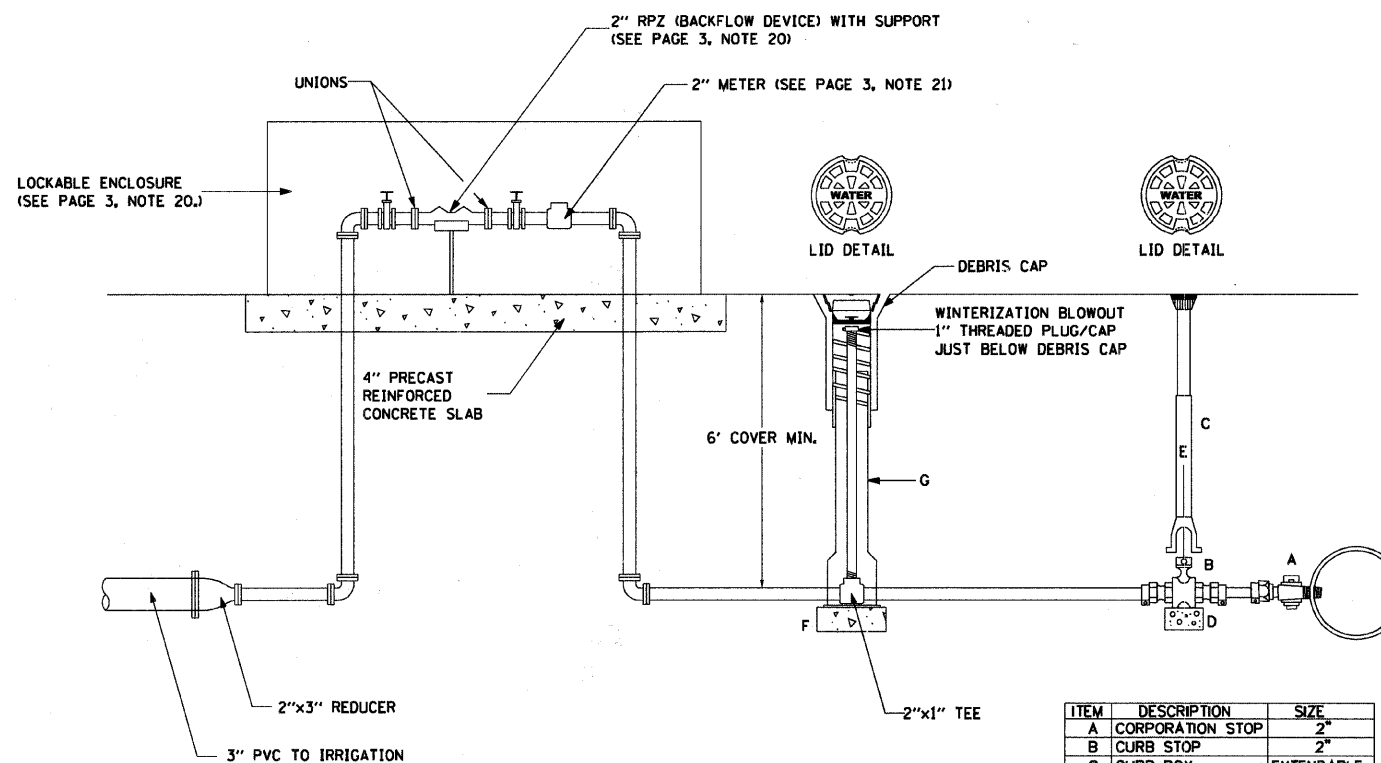
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 710 (28) IN HEIGHT.
- STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS WILL BE MONODIRECTIONAL.
- REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
- THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 600 x 600 (24 x 24) AND M6-2R 530 x 380 (21 x 15) SHALL BE USED.
- THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
- TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.
- ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

# SUMMARY OF QUANTITIES

Y003

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	08-00520-02-M5	WINNEBAGO	10	2
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY
44201978	CLASS D PATCHES, TYPE III	SO YD	22
70103700	TRAFFIC CONTROL COMPLETE	L. SUM	1
81021380	CONDUIT, PUSHED, 5" DIA., PVC	FOOT	1,200
XX007835	2" WATERMAIN TAP, BLOWOUT, METER AND RPZ	EACH	4
X0325106	IRRIGATION SYSTEM FALL SHUT-DOWN	EACH	1
X0325107	IRRIGATION SYSTEM SPRING START-UP	EACH	1
XX003885	IRRIGATION SYSTEM	L. SUM	1
XX000970	PARKWAY RESTORATION	L. SUM	1
67100100	MOBILIZATION	L. SUM	1



ITEM	DESCRIPTION	SIZE
A	CORPORATION STOP	2"
B	CURB STOP	2"
C	CURB BOX	EXTENDABLE
D	BRICK	CEMENT
E	ROD	3/8"
F	16"x8"x4" BLOCK	CONCRETE
G	VALVE BOXES WILL BE THE TYLER / UNION CAST IRON 6850 SERIES- WITH DEBRIS CAP & ADAPTER II INSTALLED	

## 2" WATERMAIN TAP, BLOWOUT, METER AND RPZ

NOT TO SCALE

REVISIONS	
NAME	DATE
CJS	12/1/08
CJS	1/20/09
CJS	1/30/09
CJS	2/10/09

ILLINOIS DEPARTMENT OF TRANSPORTATION

## SUMMARY OF QUANTITIES DETAIL

SCALE: NO SCALE  
DATE: 11-14-08

DRAWN BY: CJS  
CHECKED BY: CJS



333 East State Street, Box 4327  
Rockford, Illinois 61110-0827  
Ph 815-965-6400 Fax 815-965-6416  
www.msa-pc.com

F.A. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-00520-02-MS		WINNEBAGO	10	3
ILLINOIS PROJECT				

### IRRIGATION NOTES

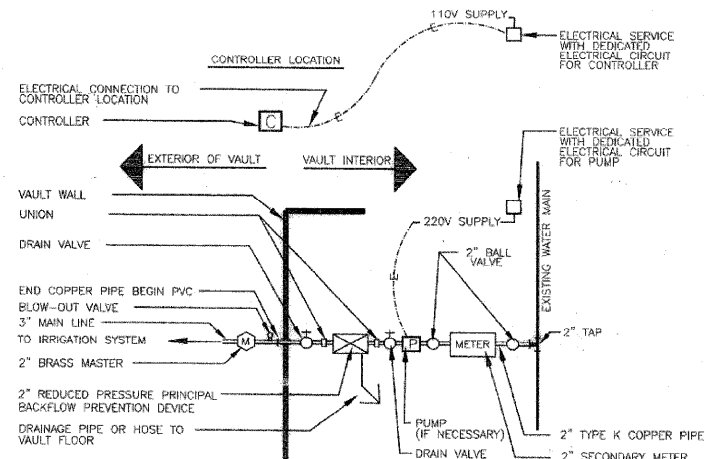
### Harrison Avenue

#### EQUIPMENT SCHEDULE

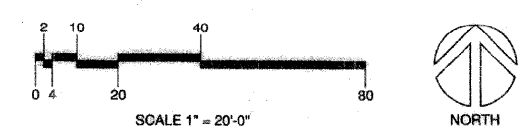
SYMBOL	ITEM
	HUNTER 1-40/41 SERIES ROTOR HEAD
	HUNTER 1-25/31 SERIES ROTOR HEAD
	HUNTER 1-20 SERIES ROTOR HEAD
	HUNTER INSTITUTIONAL SERIES SPRAY HEAD
	HUNTER INSTITUTIONAL SERIES SPRAY HEAD
	HUNTER SS SERIES SPRAY HEAD
	QUICK COUPLING VALVES W/ HOSE SWIVEL
	2" BRASS MASTER VALVE
	HUNTER ACC-99D CONTROLLER
	HUNTER WIRELESS RAIN CLIK
	SLEEVE/CROSSING POINT
	IRRIGATION MECHANICAL VAULT
	WILKINS RPZ REDUCED PRESSURE VALVE

- IRRIGATION CONTRACTOR (CONTRACTOR) SHALL PROVIDE COMPLETE DESIGN AND INSTALLATION SERVICES FOR FOUR AUTOMATIC IRRIGATION SYSTEMS OF LAWN AND PLANTING AREAS. SUPPLY AND INSTALL ALL MATERIALS NECESSARY TO PROVIDE COVERAGE OF INDICATED AREAS. THE INTENT OF THE SYSTEM IS TO PROVIDE FULL COVERAGE OF THE BOULEVARD ISLANDS AND AS MUCH COVERAGE OF THE R.O.W. PARKWAYS (SIDES) AS POSSIBLE HAVING HEADS PLACED AT THE BACK OF CURB AS THE SUGGESTED HEAD LAYOUT INDICATES. THE RADIUS OF THE SPRAY PATTERN FOR EACH HEAD SHALL BE DETERMINED BY THE DISTANCE FROM BACK OF CURB TO R.O.W. LINE. PLACEMENT OF HEADS ALONG THE CURB SHALL BE SUCH THAT HEAD TO HEAD COVERAGE ALONG THE CURB IS ACCOMPLISHED. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND AREAS PRIOR TO BEGINNING PROJECT.
- CONTRACTOR SHALL VERIFY LOCATIONS OF ALL ON-SITE UTILITIES PRIOR TO BEGINNING CONSTRUCTION ON HIS WORK. ELECTRIC, GAS, TELEPHONE, CABLE TELEVISION AND BADGER PIPELINE MAY BE LOCATED BY CALLING J.U.L.I.E. AT 1-800-892-0123. ANY DAMAGE OR INTERRUPTION OF SERVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL COORDINATE ALL RELATED ACTIVITIES WITH OTHER TRADES ON THE JOB AND SHALL REPORT ANY UNACCEPTABLE JOB CONDITIONS TO OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WORK.
- MAIN PIPE SHALL BE 3" CLASS 200 PVC, INSTALLED AT A MINIMUM DEPTH OF 12" BELOW FINISHED GRADE. LATERAL PIPE SHALL BE POLY PIPE AT A MINIMUM DEPTH OF 8" BELOW FINISHED GRADE.
- BACK FILL SHALL BE FREE FROM ROCK AND THOROUGHLY TAMPED AND COMPACTED IN ALL TRENCHES. TRENCHES SHALL NOT BE LEFT OVERNIGHT. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE CAUSED BY SETTLED TRENCHES, REPAIR OF LAWNS, DRIVES OR OTHER STRUCTURES.
- MAIN PIPE AND LATERAL PIPES SHOULD BE RUN IN ONE TRENCH WHERE POSSIBLE. VALVES TO BE LOCATED DIRECTLY ON MAIN LINE.
- VALVE TO BE INSTALLED IN "AMETEK" POLYPLASTIC BOXES, 12" x 8" x 18". INSTALL VALVE BOXES FLUSH WITH ADJACENT GRADE, WHETHER IN PLANTING BEDS OR IN LAWNS. USE 3" DEPTH PEA GRAVEL IN BASE OF ALL VALVE BOXES. GROUP VALVES WHERE POSSIBLE.
- ALL HEADS SHALL BE HUNTER "I" SERIES (1-10/1-20, 1-25/21, 1-40/41, 1-60, 1-90 ROTORS & INSTITUTIONAL SPRAYS) HEADS, (OR APPROVED EQUAL) IN QUANTITIES AND LOCATIONS SUCH AS TO PROVIDE FULL COVERAGE OF INDICATED LAWN AND PLANTING AREAS. DO NOT ALLOW SPRAY PATTERNS ONTO LANES OF TRAFFIC, INTO AREAS OUTSIDE OF R.O.W. AND OTHER SITE ITEMS. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.
- INSTALL SHRUB HEADS 3" ABOVE GRADE AND 6" FROM CURBS, WALKS, OR OTHER STRUCTURES. INSTALL LAWN HEADS AT GRADE, 6" FROM CURBS, WALKS, WALLS OR OTHER STRUCTURES. ADJUST HEADS AS NECESSARY TO AVOID OVER SPRAY ONTO BUILDINGS, SIGNS, SWITCH BOXES, ETC.. DO NOT PLACE HEADS WITHIN 6' OF ANY TREE OR SHRUB UNLESS THE HEAD IS DESIGNED TO DO SO, (I.E. SHRUB HEADS).
- AFTER SYSTEMS ARE INSTALLED, REMOVE END HEADS AND OPERATE SYSTEM AT FULL PRESSURE UNTIL ALL RUST, SCALE, AND SAND IS REMOVED.
- SYSTEM SHALL BE A TWO-WIRE DECODER TECHNOLOGY SYSTEM. CONTRACTOR TO SUPPLY AND INSTALL ALL EQUIPMENT NECESSARY TO OPERATE SUCH A SYSTEM. ALL REMOTE CONTROL VALVE CABLE TO BE IDWIRE1 (14 AWG) OR IDWIRE2 (12 AWG), DIRECT BURIAL. TAPE AND BUNDLE @ 20' INTERVALS. RUN ALL WIRE IN PIPE TRENCH WHERE POSSIBLE.

- IT IS ASSUMED THAT EXISTING PRESSURE AT THE POINT OF CONNECTIONS ARE ADEQUATE TO SUPPLY SYSTEM. THE FOLLOWING ARE FLOW TEST RESULTS FOR THE AREA PROVIDED BY THE CITY OF ROCKFORD:  
 UPLAND-HARRISON: STATIC: 72 PSI, RESIDUAL: 62 PSI @ 2353 GPM (PERFORMED BY ROCKFORD FIRE DEPARTMENT IN 2004).  
 FORESTVIEW-HARRISON: STATIC: 63 PSI, RESIDUAL: 61 PSI @ 2353 GPM (PERFORMED BY ROCKFORD FIRE DEPARTMENT IN 2004).  
 MARIPOSA-HARRISON: STATIC: 64 PSI, RESIDUAL: 63 PSI @ 2353 GPM (PERFORMED BY ROCKFORD FIRE DEPARTMENT IN 2004).  
 ARNOLD-HARRISON: STATIC: 57 PSI, RESIDUAL: 56 PSI @ 2015 GPM (PERFORMED BY ROCKFORD FIRE DEPARTMENT IN 2004).  
 MULFORD-HARRISON: STATIC: 70 PSI, RESIDUAL: 58 PSI @ 2091 GPM (PERFORMED BY ROCKFORD FIRE DEPARTMENT IN 2007).  
 CONTRACTOR TO VERIFY PRESSURE PRIOR TO SUBMISSION OF BID. IF EXISTING PRESSURE IS FOUND TO BE INADEQUATE TO SUPPLY SYSTEM(S), CONTRACTOR TO ADD PUMP(S) AS NECESSARY AND INCLUDE AS PART OF BID. (ALSO SEE NOTE 19 BELOW).
- CONTRACTOR TO TEST SYSTEM TO DETERMINE THAT ALL SPRINKLERS FUNCTION ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND GIVE INDICATED COVERAGE. REPLACE, ADJUST, OR ADD HEADS, VALVES AND OTHER ITEMS NECESSARY TO ATTAIN INDICATED COVERAGE WITHOUT ADDITIONAL COST TO OWNER.
- IRRIGATION CONTRACTOR TO ESTABLISH WATER TAPS IN LOCATIONS AS SHOWN (OR AS NECESSARY) ON THE PLAN AND DETAILS.
- CONTRACTOR SHALL SUBMIT A PLAN OF THE PROPOSED IRRIGATION SYSTEM AT THE PRECONSTRUCTION MEETING AND PRIOR TO COMMENCING WORK. PLAN TO SHOW THE PROPOSED HEAD LAYOUT (INCLUDING TYPE AND QUANTITIES), VALVE LOCATIONS AND QUANTITIES (INCLUDING INDICATION OF PROPOSED ZONES) LAYOUT AND QUANTITY OF MAINLINE, LATERALS, QUICK COUPLERS, MECHANICALS AND ALL OTHER ITEMS NECESSARY TO COMPLETE SYSTEM. PLAN SHALL BE SUBMITTED IN THE FOLLOWING FORMAT:  
 1). AS A PAPER COPY.  
 UPON COMPLETION OF WORK, CONTRACTOR TO PROVIDE A COMPLETE "AS BUILT" IRRIGATION PLAN SHOWING THE ACTUAL INSTALLED PLACEMENT OF ALL HEADS, VALVES, PIPING, AND ASSOCIATED HARDWARE. ZONE LAYOUT TO BE INDICATED IN RELATIONSHIP TO CONTROLLER(S). AS-BUILT PLAN SHALL BE SUBMITTED IN THE FOLLOWING FORMATS: 1). AS A PAPER COPY, 2). AS A .PDF ELECTRONIC FILE, AND 3). AS A DWG FORMAT AUTOCAD VER. 2007 ELECTRONIC FILE.
- IRRIGATION CONTRACTOR TO INSTALL ONE (1) HUNTER 'ACC99D' CONTROLLER PER SYSTEM (4 TOTAL), (OR APPROVED EQUAL). CONTROLLERS TO BE IN WEATHERPROOF LOCKING METAL CABINET ON PEDESTAL TO BE SUPPLIED AND INSTALLED BY IRRIGATION CONTRACTOR, VERIFY EXACT LOCATIONS WITH OWNER PRIOR TO INSTALLATION. PROVIDE A DEDICATED 110V SERVICE TO EACH CONTROLLER LOCATION AS INDICATED ON PLAN, OR AS NECESSARY.
- CONTRACTOR IS RESPONSIBLE FOR SECURING ALL PERMITS AND APPROVALS TO MEET LOCAL CODES AND TO INCLUDE ASSOCIATED COSTS IN THE BASE BID.
- CONTRACTOR SHALL MAKE IRRIGATION SYSTEM FULLY OPERATIONAL, PROVIDE LATE FALL WINTERIZATION AND NEXT SEASON'S SPRING CHARGING AND INSPECTION AS PART OF CONTRACTED WORK.
- CONTRACTOR TO PROVIDE NECESSARY DIRECTIONAL BORING AND INSTALLATION OF SLEEVES NECESSARY FOR IRRIGATION SYSTEM IN LOCATIONS INDICATED AS "CROSSING POINT/SLEEVE" ON PLAN AND ALL OTHER PAVING OR LINEAR OBSTRUCTIONS NECESSARY. CONTRACTOR TO AVOID CUTTING AND PATCHING OF PAVEMENT EXCEPT WHERE ABSOLUTELY NECESSARY. PRIOR PERMISSION FROM THE OWNER, (CITY OF ROCKFORD), WILL BE REQUIRED BEFORE ANY PAVEMENT REMOVALS ARE ALLOWED.  
 IN LOCATIONS THAT THE SLEEVES ARE ALLOWED TO BE TRENCHED IN, EACH LOCATION SHALL CONSIST OF ONE (1) 5" SCHEDULE 40 PVC SLEEVES OR CAST IRON PIPE UNLESS OTHERWISE NOTED. CONTRACTOR TO INSTALL SLEEVES TO A DEPTH OF 1'-0" BELOW FINAL GRADE, EXTEND BEYOND EDGE OF PAVING/CURB MINIMUM 1'-0" WITH 90° ELBOW CAPPED AT BOTH ENDS AND MARKED WITH MAGNETIZED RODS FOR FUTURE LOCATING. REPAIR TRENCH TO LIKE NEW CONDITIONS AFTER COMPLETION OF INSTALLATION.  
 SEE SPECIFICATIONS FOR DIRECTIONAL BORING REQUIREMENTS.
- CONTRACTOR TO SUPPLY AND INSTALL BOOSTER PUMP(S) (IF REQUIRED) IN "IRRIGATION MECHANICALS" LOCATION(S) AS SHOWN ON PLAN. PUMP(S) TO BE STA-RITE MODEL #JHF, (OR APPROVED EQUAL), WITH THE APPROPRIATE HORSEPOWER TO PROVIDE FOR MINIMUM OPERATING PRESSURE, INSTALL AS PER MANUFACTURER'S SPECIFICATIONS.
- CONTRACTOR TO SUPPLY AND INSTALL A WILKINS (OR APPROVED EQUAL) RPZ BACKFLOW PREVENTION DEVICE(S) (OF APPROPRIATE SIZE FOR MAINTAINING MINIMUM OPERATING PRESSURE) FOR IRRIGATION SYSTEM(S) IN "IRRIGATION MECHANICALS" LOCATION(S) INDICATED ON PLAN. CONTRACTOR TO SUPPLY AND INSTALL A LOCKABLE FIBERGLASS "HOTBOX" BACKFLOW COVER BY CDR SYSTEMS CORPORATION (OR APPROVED EQUAL) OF APPROPRIATE SIZE TO HOUSE REQUIRED RPZ VALVE AND NECESSARY EQUIPMENT. ENCLOSURE TO BE LOCATED AT IRRIGATION MECHANICALS LOCATION. CONFIRM EXACT LOCATION WITH OWNER PRIOR TO INSTALLATION.
- CONTRACTOR TO SUPPLY AND INSTALL BADGER (OR APPROVED EQUAL) SECONDARY METER(S) (OF APPROPRIATE SIZE FOR MAINTAINING MINIMUM OPERATING PRESSURE) FOR IRRIGATION SYSTEM IN "IRRIGATION MECHANICALS" LOCATION(S) INDICATED ON PLAN.
- CONTRACTOR TO SUPPLY AND INSTALL QUICK COUPLING VALVES IN LOCATIONS INDICATED ON PLAN. QUICK COUPLING VALVES TO BE HUNTER MODEL #HQ-44LRC-AW, (OR APPROVED EQUAL), WITH KEY AND SWIVEL FOR EACH LOCATION, INSTALL AS PER MANUFACTURER'S SPECIFICATIONS.
- CONTRACTOR TO SUPPLY AND INSTALL RAIN SENSORS IN LOCATIONS INDICATED ON PLAN. RAIN SENSORS TO BE HUNTER RAIN-CLIK MODEL #RAIN-CLIK, (OR APPROVED EQUAL), INSTALL AS PER MANUFACTURER'S SPECIFICATIONS.
- ANY DAMAGE TO EXISTING CONDITIONS, (LAWN, GRADING, HARD SURFACES, ETC.), SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESTORE TO LIKE NEW CONDITIONS. MATCH EXISTING MATERIALS IN TECHNIQUE, COLOR AND MATERIALS WHEN REPAIRING ITEMS.
- IRRIGATION IS PROPOSED THROUGHOUT MOST OF THE AREA ALONG THE RIGHT-OF-WAY FOR HARRISON AVENUE AS INDICATED ON PLAN. IT IS BELIEVED THAT THERE ARE SOME PROPERTIES IN THIS AREA THAT HAVE EXISTING AUTOMATIC IRRIGATION SYSTEMS OPERATING AND IN PLACE WITHIN THE R.O.W.. SOME OF THESE PROPERTIES ARE INDICATED ON PLAN, HOWEVER, THERE MAY BE OTHER PROPERTIES NOT INDICATED THAT ALSO HAVE SYSTEMS IN PLACE. CONTRACTOR IS TO EXCLUDE ANY PROPERTY THAT HAS EXISTING IRRIGATION SYSTEMS IN PLACE WHETHER INDICATED OR NOT. DO NOT INSTALL HEADS, VALVES, WIRES, OR LATERAL LINES FOR THIS IRRIGATION SYSTEM IF A PROPERTY IS PRESENTLY BEING IRRIGATED, HOWEVER, IF MAIN LINE IS NEEDED TO EXTEND THROUGH THE PROPERTY, THAT FUNCTION WILL STILL BE REQUIRED. (SEE NOTE 26 BELOW). FOR THE PURPOSE OF BIDDING, CONTRACTOR IS TO PROVIDE FOR IRRIGATION IN ALL INDICATED AREAS SHOWN ON PLAN. PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL NOTE THE PRIVATELY IRRIGATED AREAS THAT HAVE NOT BEEN ACCOUNTED FOR ON PLAN AND CONTACT THE CITY OR THE CITY'S REPRESENTATIVE TO ARRANGE FOR A CREDIT TO THE OWNER FOR ELIMINATION OF THESE AREAS FROM THE SCOPE OF WORK. CONTRACTOR SHALL ALSO VERIFY THAT THE PROPERTIES INDICATED AS BEING IRRIGATED DO IN FACT HAVE OPERATING SYSTEMS IN PLACE. IF AN INDICATED PROPERTY DOES NOT HAVE A WORKING SYSTEM, CONTACT THE CITY OR THE CITY'S REPRESENTATIVE TO ARRANGE FOR ADDING THESE AREAS TO THE WORK SCOPE.
- INSTALL THE CITY OF ROCKFORD MAIN LINE IRRIGATION PIPING AND WIRES AS NECESSARY THROUGH ALL PRIVATELY IRRIGATED AREAS WITHIN THE RIGHT-OF-WAY TO REACH NEEDED AREAS SHOWN ON PLAN. SHOULD PRIVATE IRRIGATION SYSTEMS BE DAMAGED DURING MAIN LINE INSTALLATION, THE CONTRACTOR WILL BE REQUIRED TO REPAIR ANY DAMAGES TO THESE SYSTEMS THAT WAS CAUSED BY THE INSTALLATION OF THE MAINLINE. PRIOR TO INSTALLATION OPERATIONS, CONTACT THE CITY OF THE CITY'S REPRESENTATIVES TO REPORT ANY AREAS WHERE SYSTEMS COULD POTENTIALLY BE DAMAGED AND THE PROPOSED SCHEDULE OF WORK IN THOSE AREAS, SO THAT THE OWNERS OF THE SYSTEMS IN QUESTION MAY BE CONTACTED AND NOTIFIED OF THE WORK.
- CONTRACTOR SHALL BE AWARE THAT THERE IS FIBER OPTIC CABLE, (FOR STOP LIGHT OPERATION), THAT RUNS ALONG THE BACK OF THE CURB THROUGH MUCH OF THE AREA OF THIS PROJECT. (THIS CABLE IS NOT INDICATED ON PLANS). EXTREME CARE TO AVOID DISRUPTION OF THIS CABLE IS REQUIRED. CONTRACTOR TO AVOID USE OF MACHINERY AROUND THIS CABLE, CAREFULLY HAND DIG TO VERIFY LOCATION OF THIS CABLE WHENEVER IN PROXIMITY OF THE CABLE, AND HAND DIG FOR INSTALLATION OF ANY EQUIPMENT IF CLOSE TO CABLE. REPAIR OF ANY DAMAGE TO THIS CABLE OF OTHER SITE ITEMS CAUSED BY THE CONTRACTOR, (OR HIS REPRESENTATIVES), WILL BE THE CONTRACTOR'S RESPONSIBILITY.

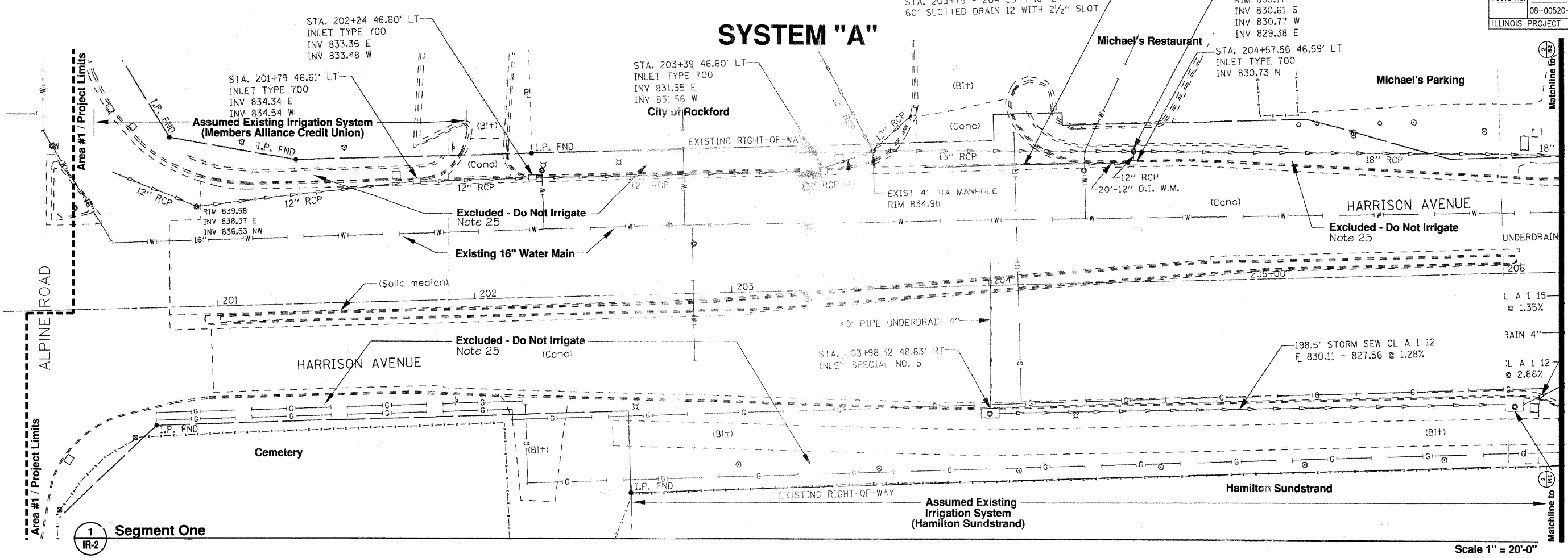


**2 IRRIGATION PLUMBING SCHEMATIC**  
 NO SCALE



 <b>Thomas Graceffa and Associates, Inc.</b> Planning • Landscape Architecture 4777 East State Street Rockford, Illinois 61109 815-229-4000	IRRIGATION NOTES & DETAILS City of Rockford <b>Harrison Avenue Reconstruction</b>		SHEET <b>IR-1</b> PRCLJ 0509-A DATE 2/09
	ALPINE TO MULFORD RDS. ROCKFORD, ILLINOIS		

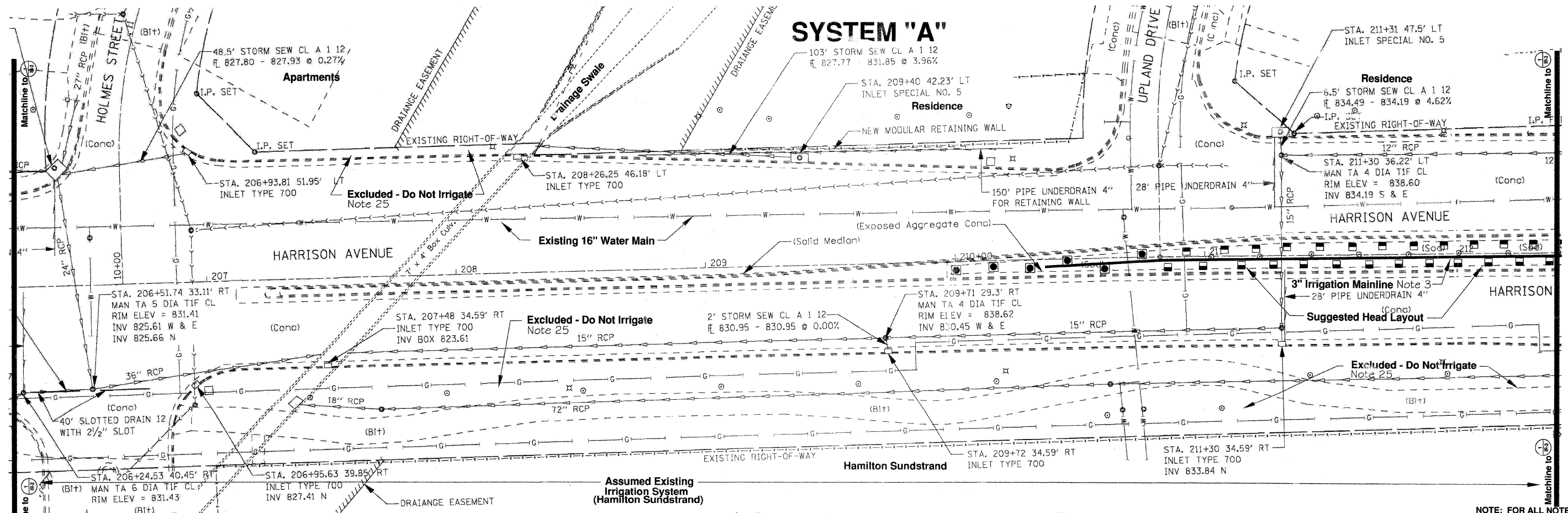
# SYSTEM "A"



1 Segment One  
IR-2

Scale 1" = 20'-0"

# SYSTEM "A"



2 Segment Two  
IR-2

Scale 1" = 20'-0"

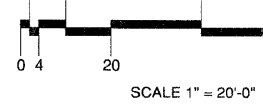
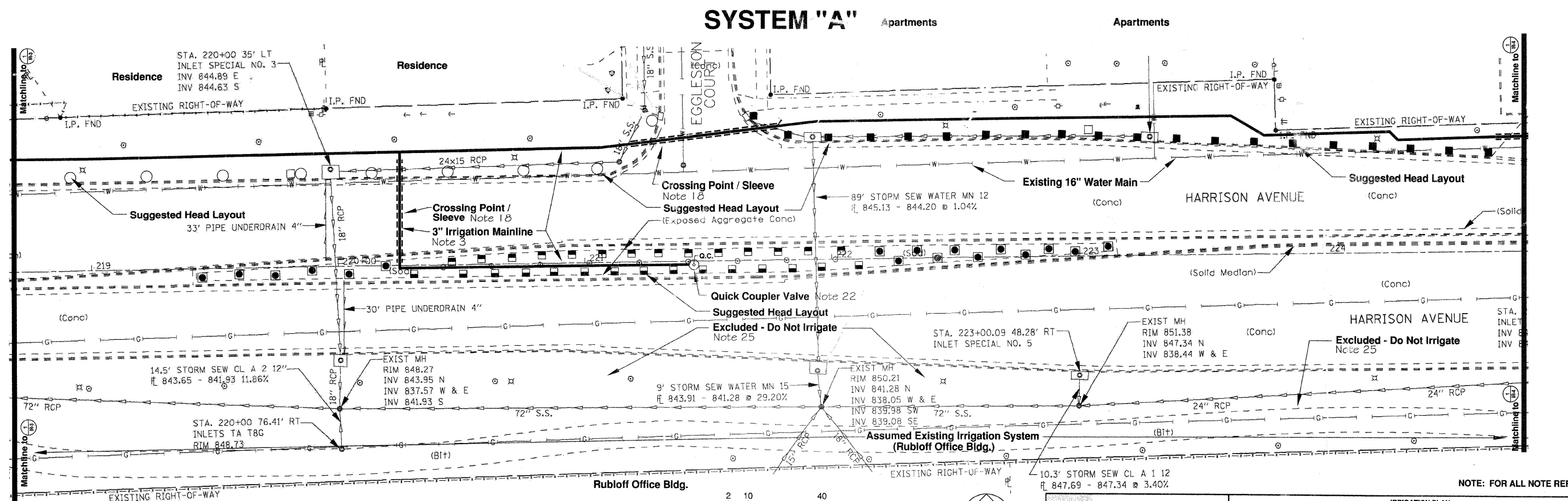
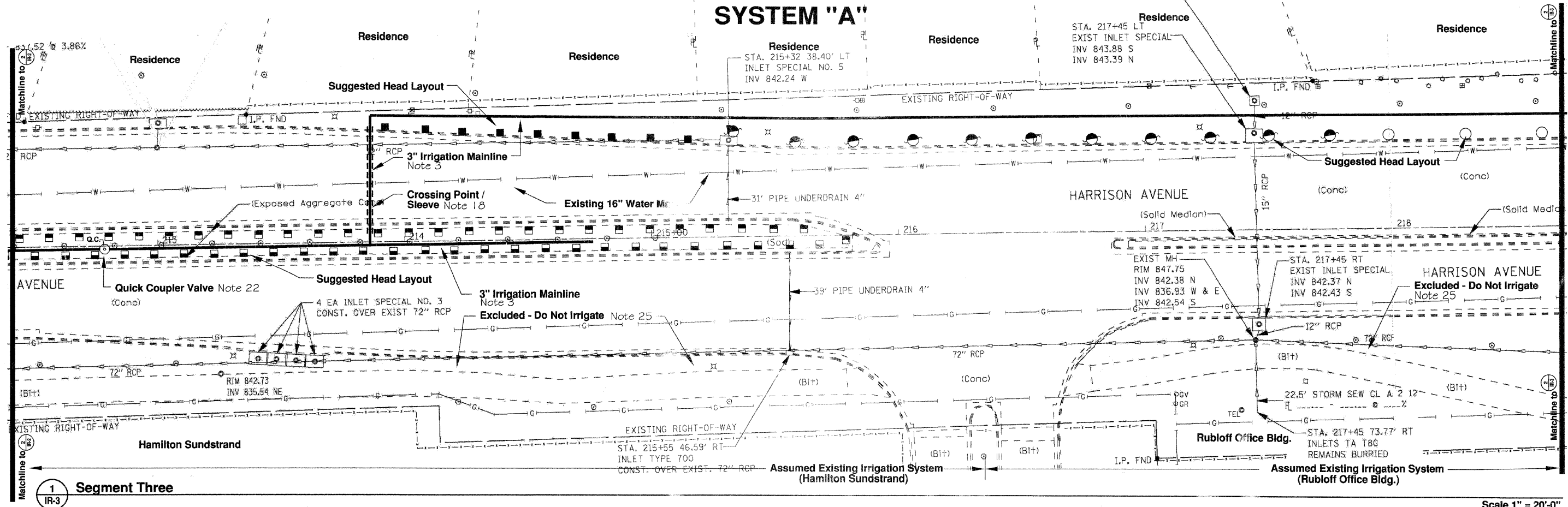


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IRRIGATION PLAN  
 City of Rockford  
**Harrison Avenue Reconstruction**  
 ALPINE TO MULFORD RDS.  
 ROCKFORD, ILLINOIS

PROJ.	0566-A
DATE	2/3/09

NOTE: FOR ALL NOTE REFERENCES SEE SHEET IR-1/8



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NOTE: FOR ALL NOTE REFERENCES SEE SHEET IR-1/8

IRRIGATION PLAN  
 City of Rockford  
**Harrison Avenue Reconstruction**

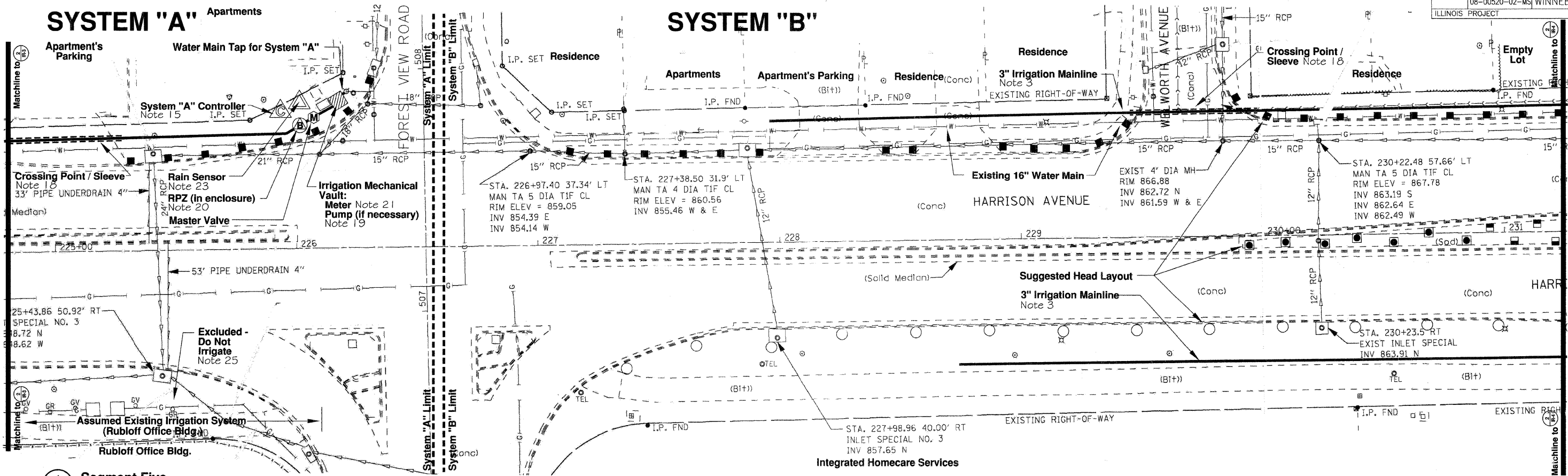
SHEET  
**IR-3**  
 8

PROJ. 0566-A  
 DATE 2/3/09

ALPINE TO MULFORD RDS.  
 ROCKFORD, ILLINOIS

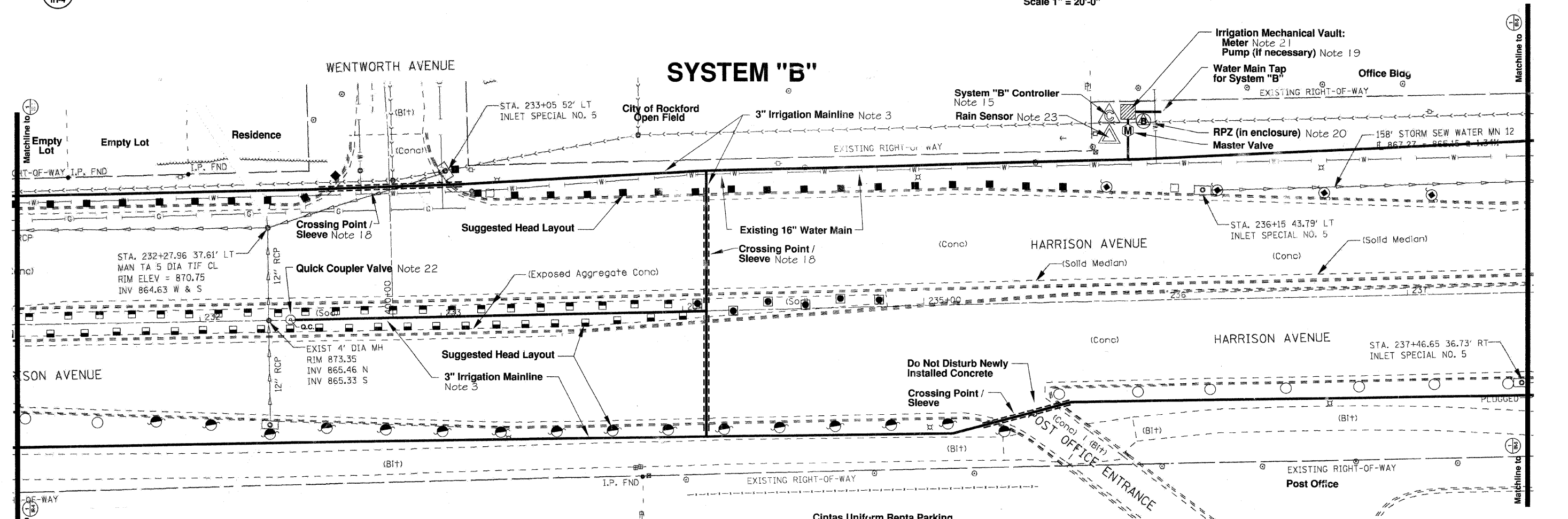
# SYSTEM "A" Apartments

# SYSTEM "B"



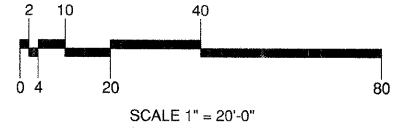
1 Segment Five  
IR-4

Scale 1" = 20'-0"



2 Segment Six  
IR-4

Scale 1" = 20'-0"

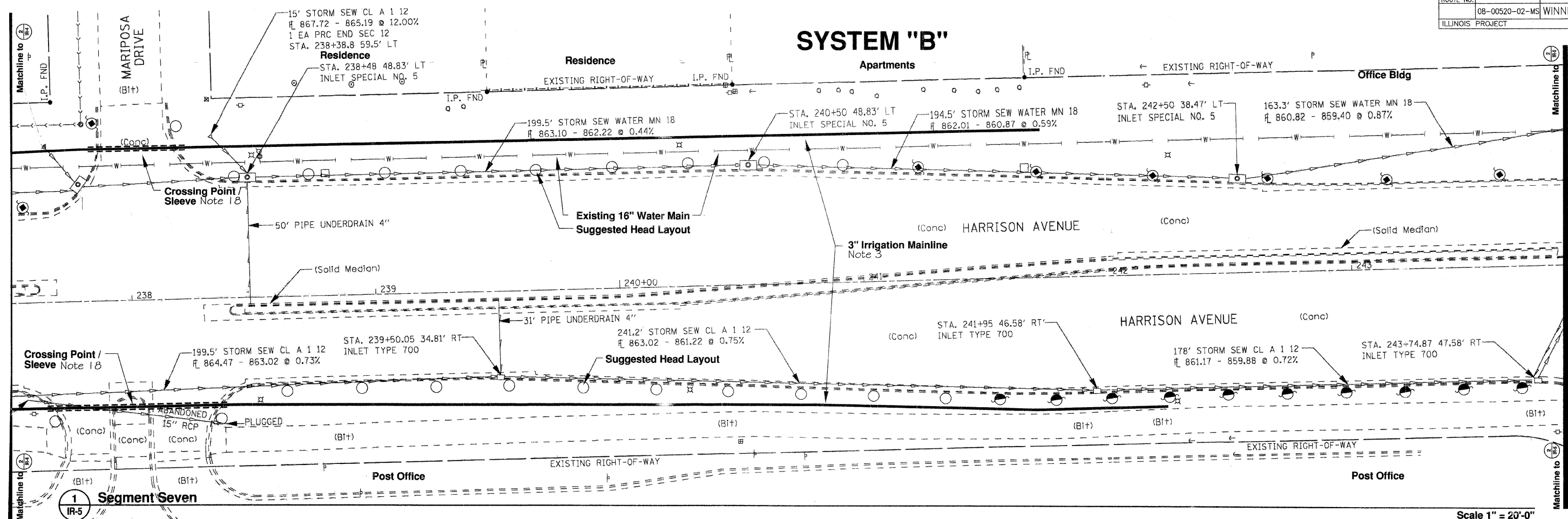


NOTE: FOR ALL NOTE REFERENCES SEE SHEET IR-1/8

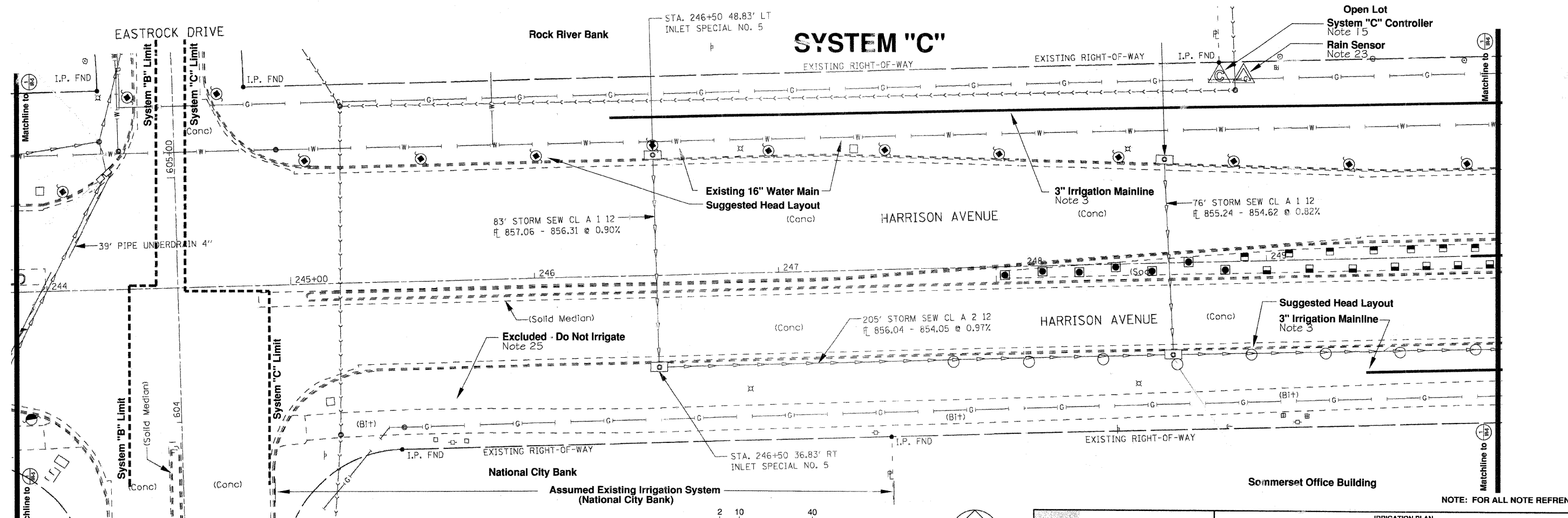
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SHEET	IR-4
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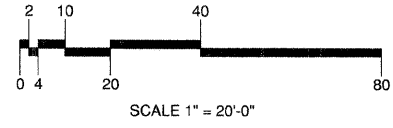
Scale 1" = 20'-0"



NOTE: FOR ALL NOTE REFERENCES SEE SHEET IR-1/8

2 Segment Eight  
IR-5

Scale 1" = 20'-0"

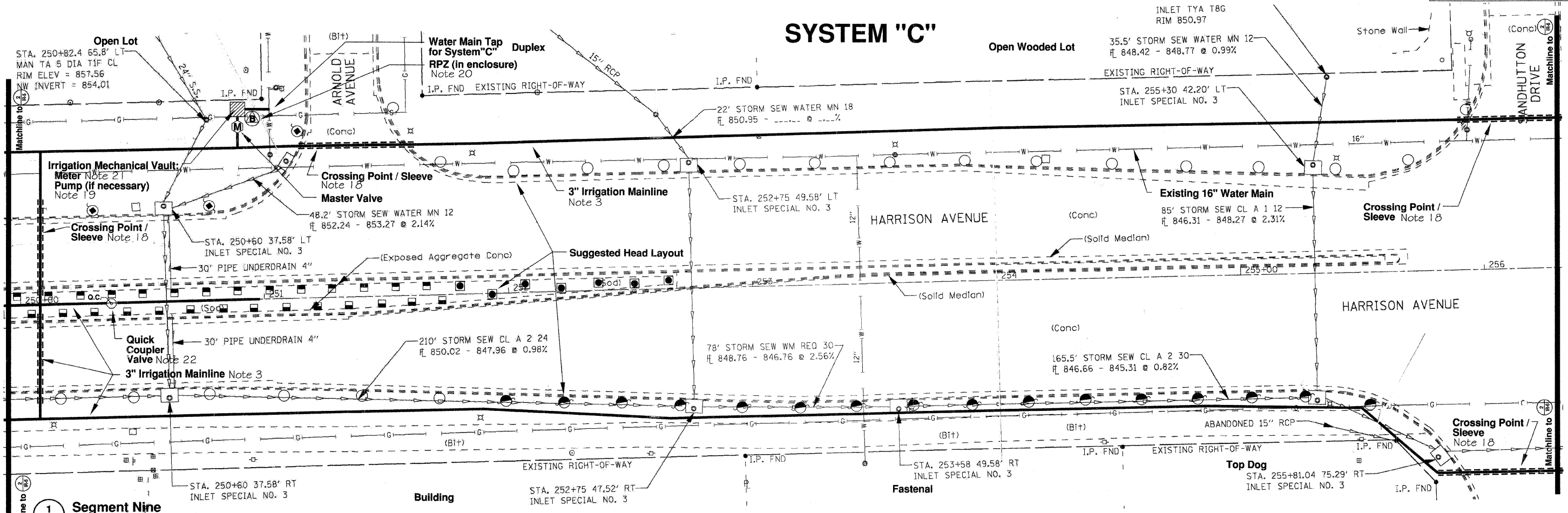


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SHEET	IR-5
PROJ.	0566-A
DATE	2/3/09

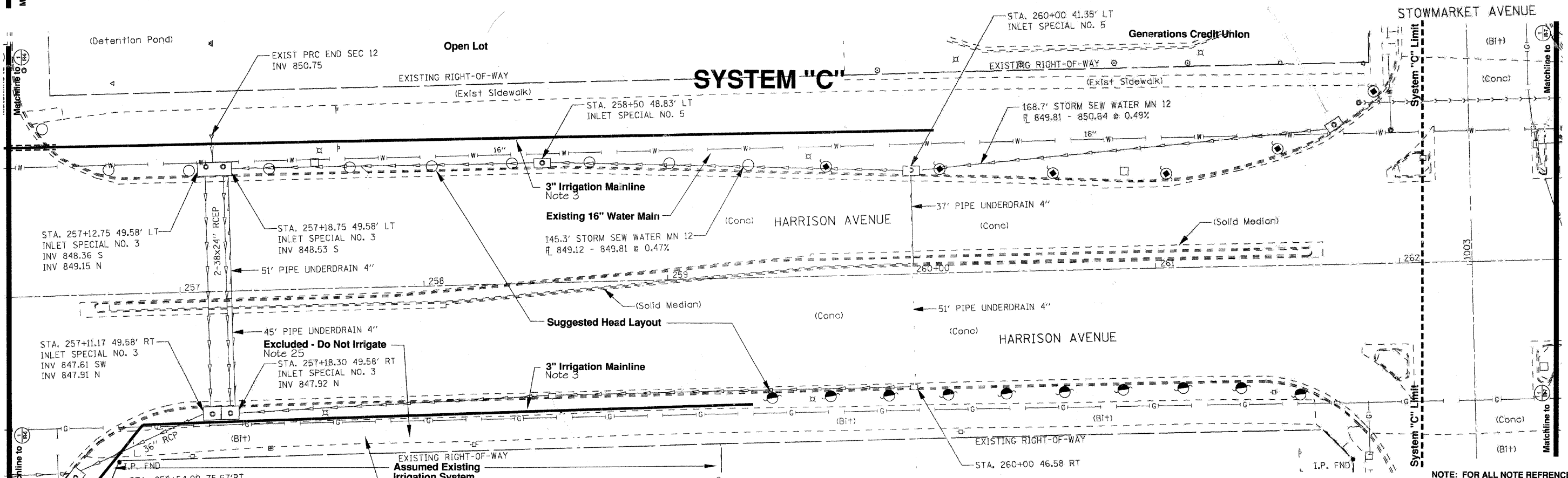
# SYSTEM "C"



1 Segment Nine  
IR-6

Scale 1" = 20'-0"

# SYSTEM "C"



2 Segment Ten  
IR-6

Scale 1" = 20'-0"

Scale 1" = 20'-0"



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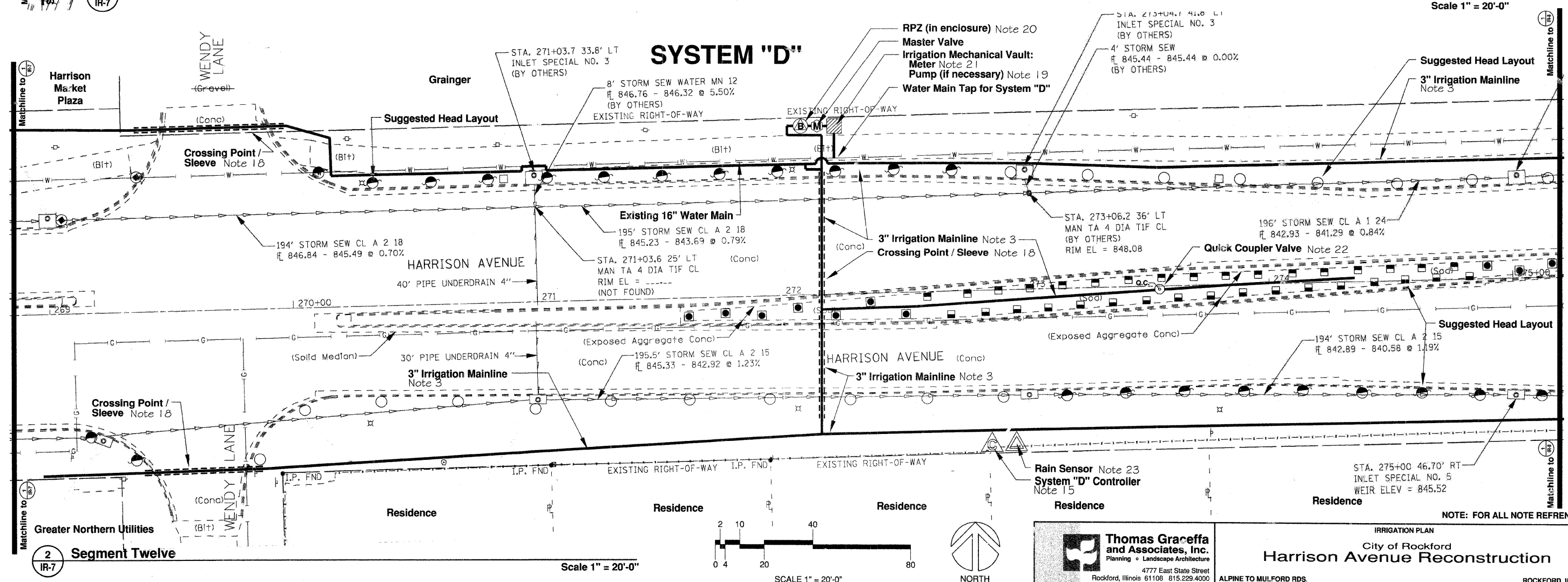
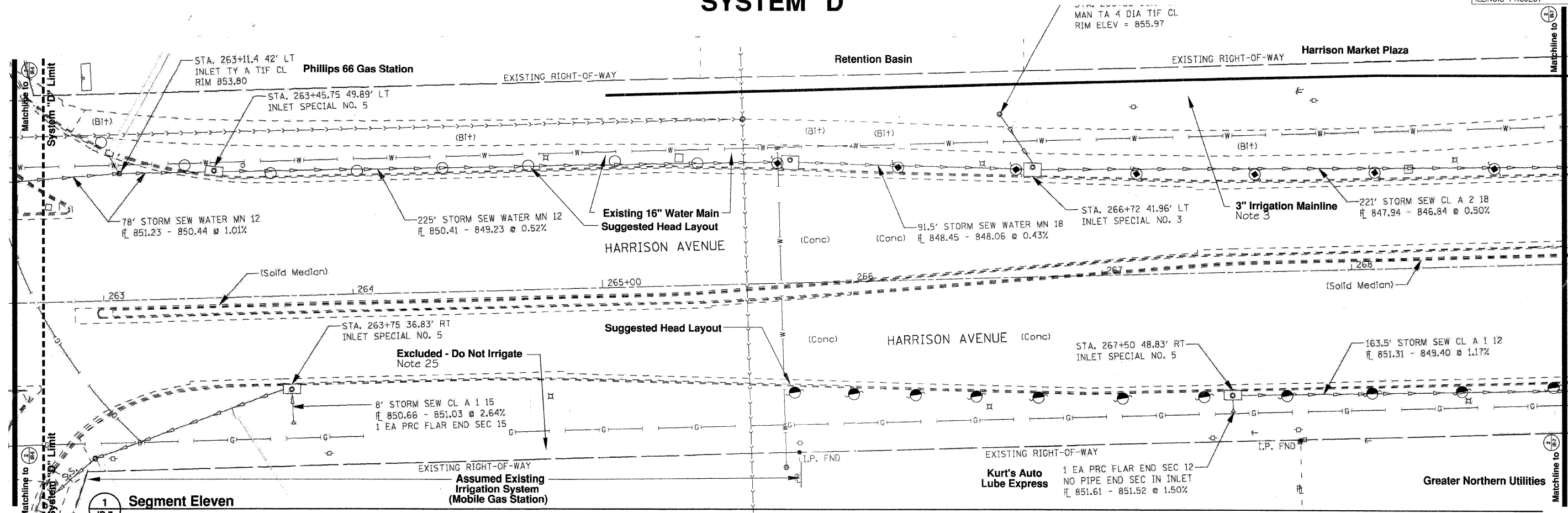
IRRIGATION PLAN  
City of Rockford  
**Harrison Avenue Reconstruction**  
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NOTE: FOR ALL NOTE REFERENCES SEE SHEET IR-1/8

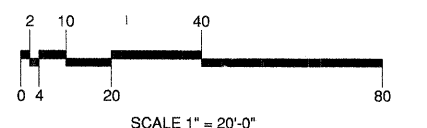
SHEET	IR-6
PROJ.	0586-A
DATE	2/3/09



# SYSTEM "D"



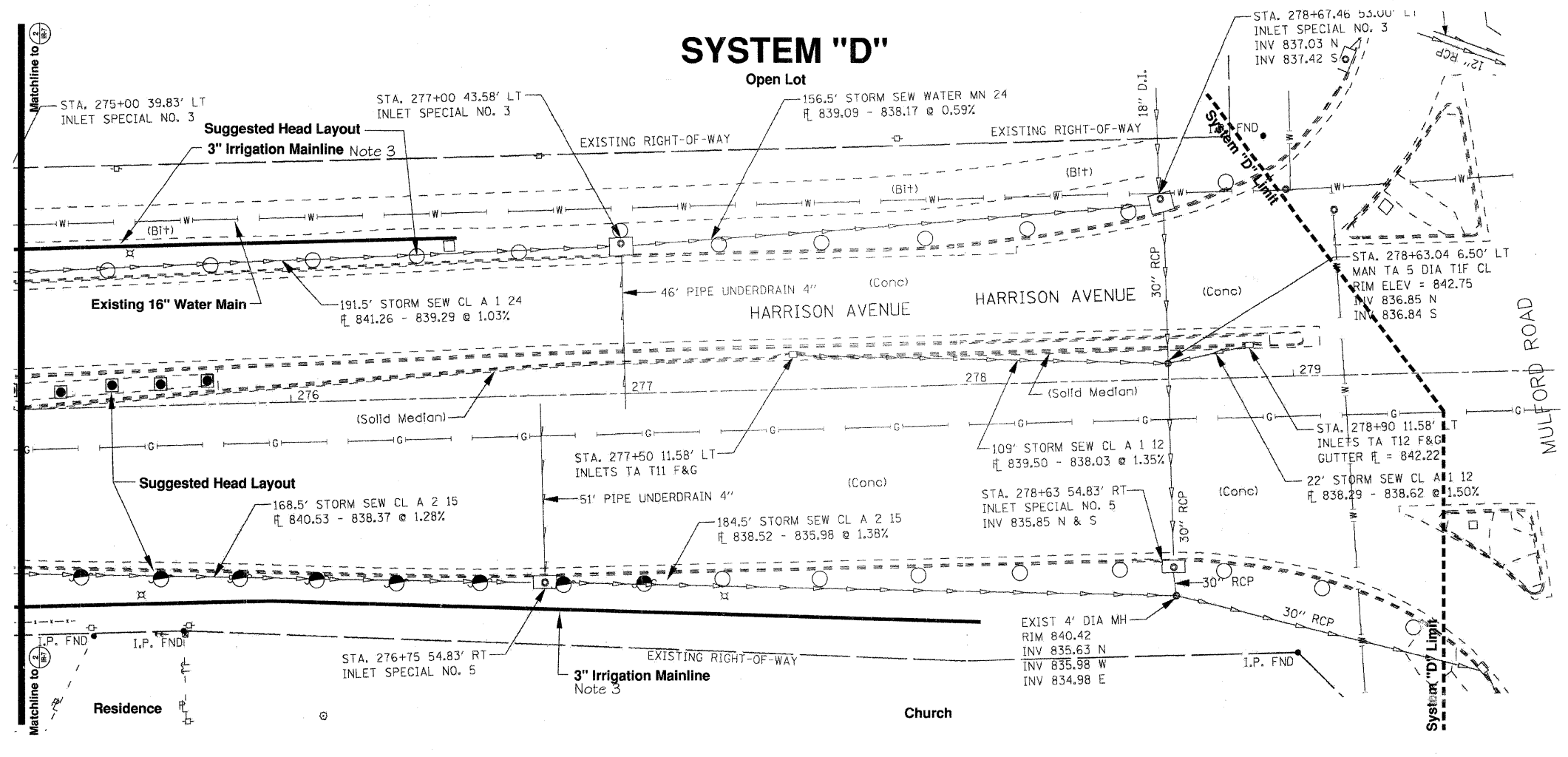
NOTE: FOR ALL NOTE REFERENCES SEE SHEET IR-1/8



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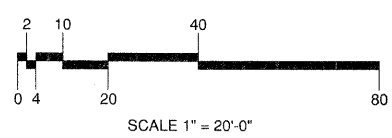
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SHEET	IR-7/8
PROJ.	0566-A
DATE	2/3/09



1 Segment Thirteen  
IR-8

Scale 1" = 20'-0"



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SHEET  
**IR-8**  
 8  
 PROJ. 0566-A  
 DATE 2/3/09

NOTE: FOR ALL NOTE REFERENCES SEE SHEET IR-1/8