

FOREST HILL CEMETERY IMPROVEMENTS 2017

CONTRACT NUMBER: 7948
MUNIS NO. 17167-51-130

STORM SEWER AND ROADWAYS
DESIGNED BY:

City of Madison
Department of Public Works
PARKS DIVISION

City-County Building, Suite 104
210 Martin Luther King, Jr. Blvd.
PO Box 2987
Madison, WI 53701-2987

play
MADISON
PARKS



INDEX OF SHEETS

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PROJECT:

FOREST HILL CEMETERY
IMPROVEMENTS 2017

GOODMAN PARK
ICE RINK
37 VAN DEUSEN ST
MADISON, WI 53703

Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

ITEM DATE
Drawn by: CCS 4-21-17

Revised by:

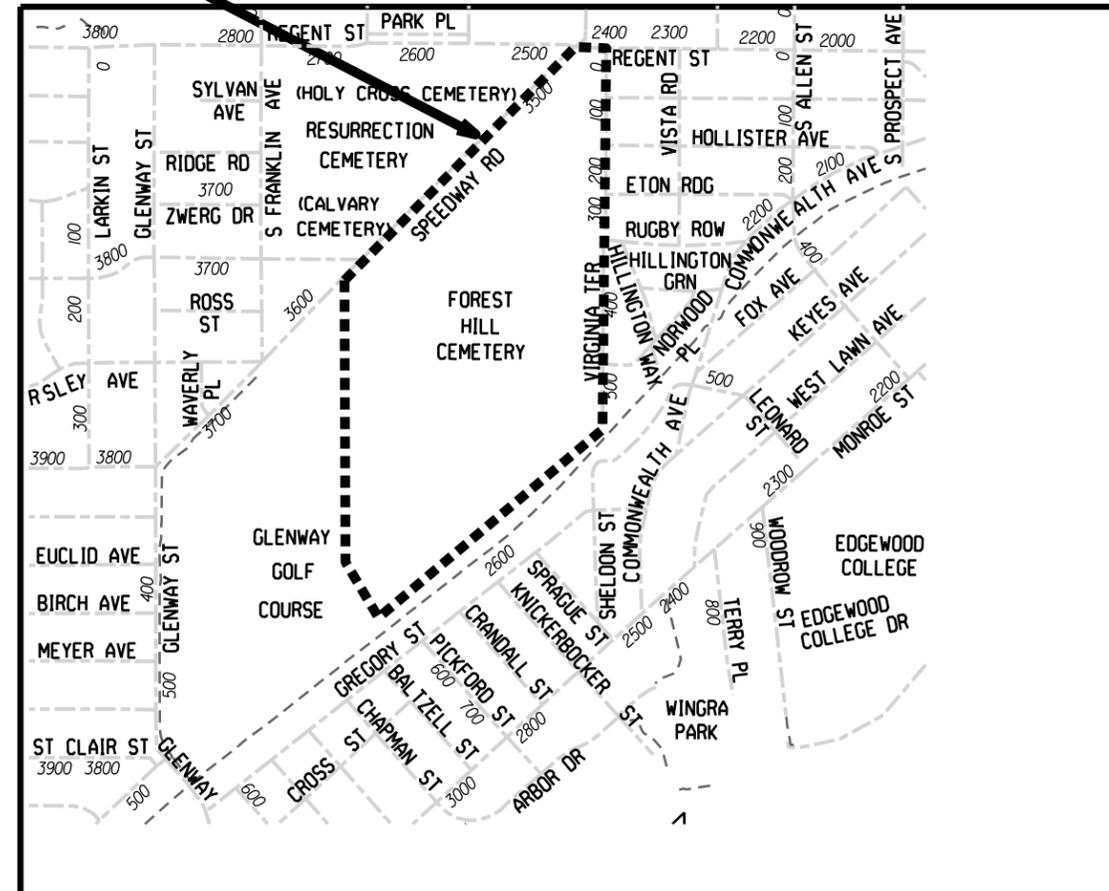
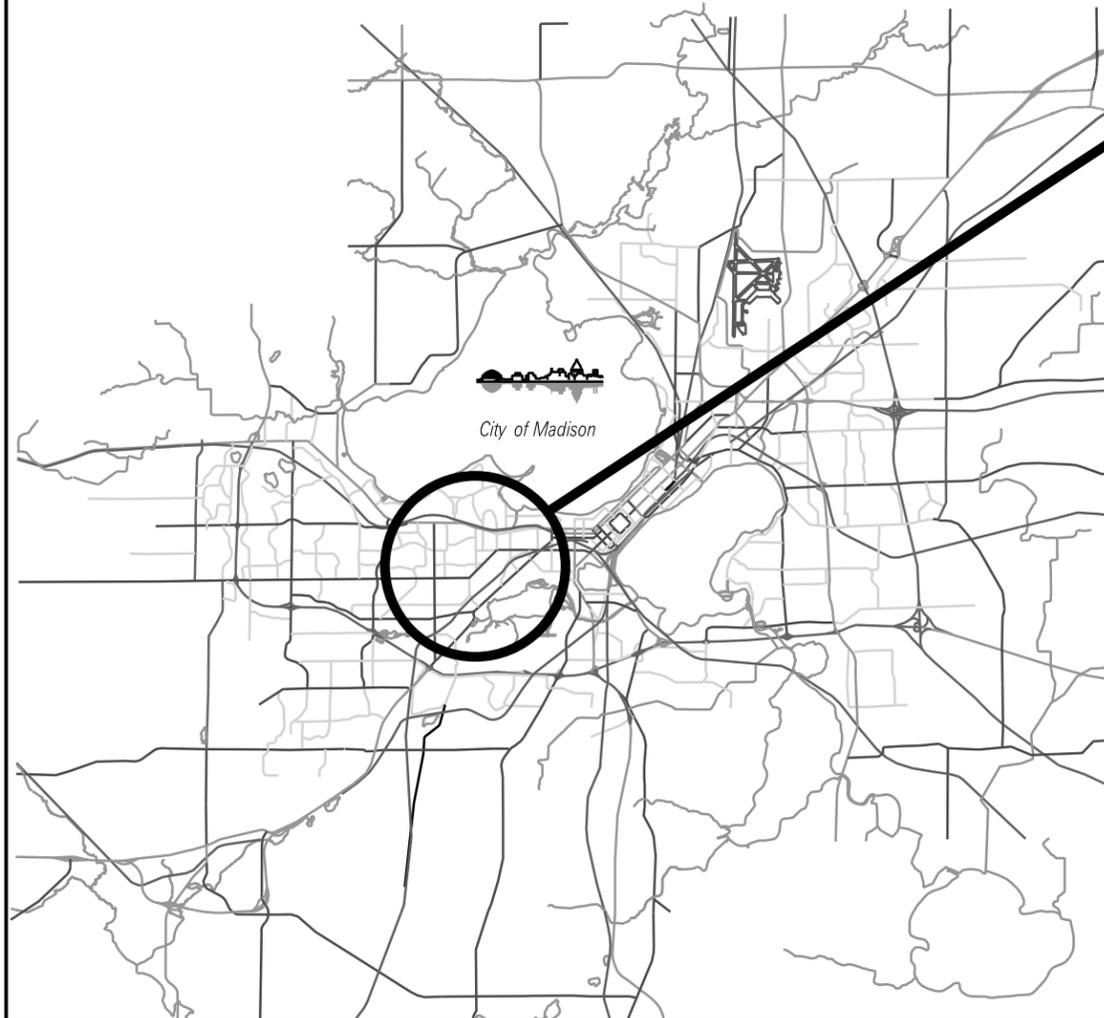
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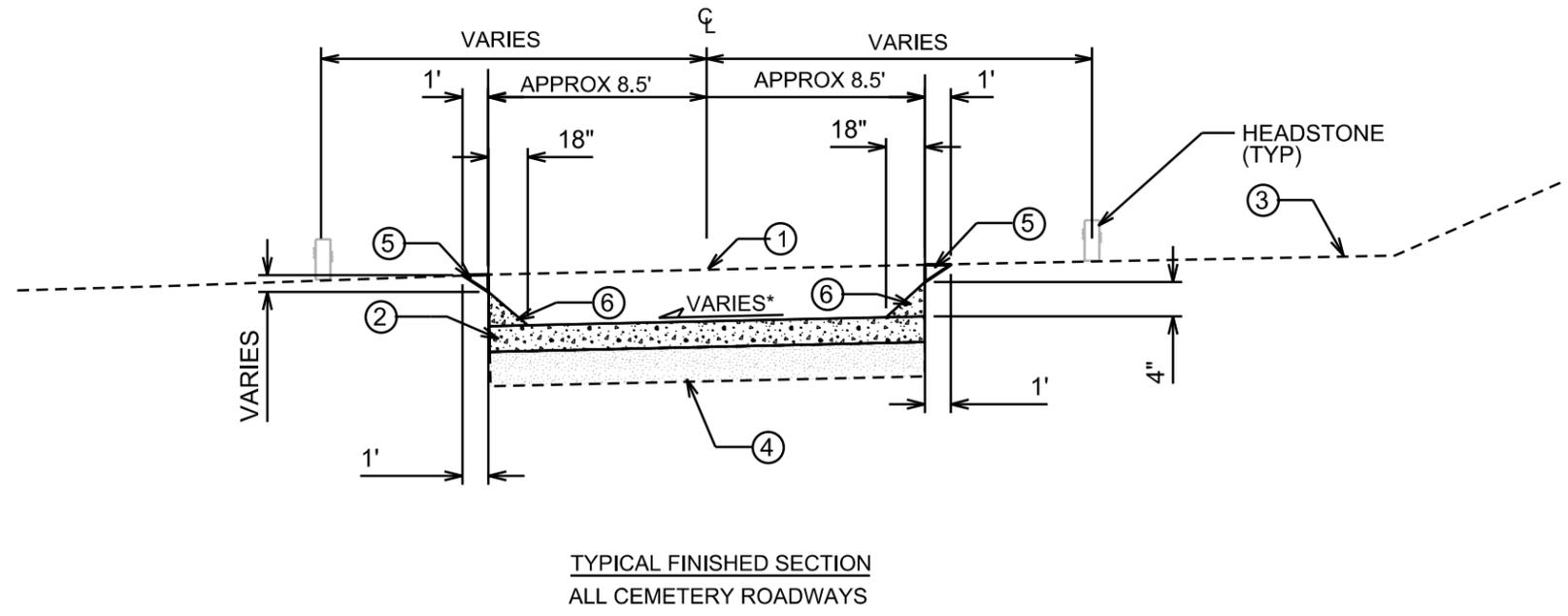
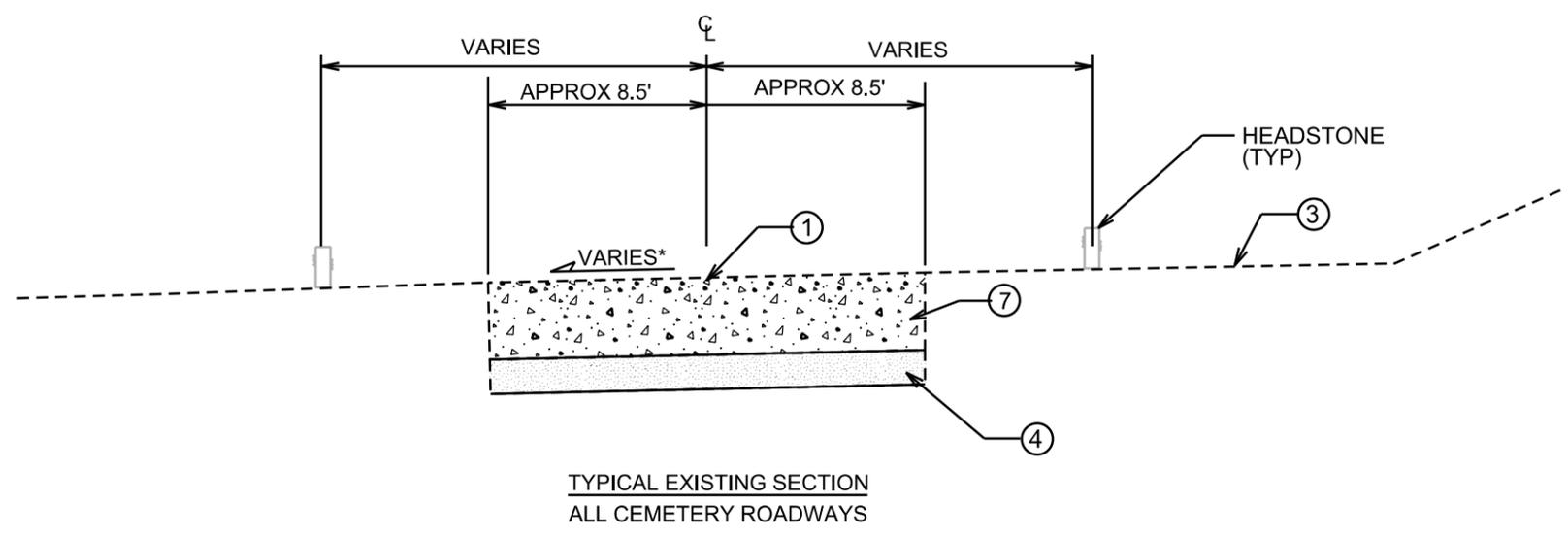
TITLE

SHEET NUMBER:

1

PROJECT LOCATION





NOTE:
CARLSON SCREED RAISED EDGE OF PAVEMENT SHALL BE 4" HIGH AND 18" WIDE AND SHALL BE INCIDENTAL TO ASPHALT PAVEMENT

- ① POINT REFERRED TO ON PROFILE
- ② 3" E-3 ASPHALT PAVEMENT
- ③ EXISTING GROUND
- ④ APPROX 4" EXISTING BASE COURSE
- ⑤ GRAVEL SHOULDERING
- ⑥ 18" CARLSON SCREED EDGE OF PAVEMENT
- ⑦ EX ASPHALT PAVEMENT TO BE REMOVED (APPROX 7"-9")

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

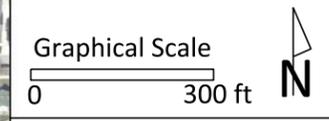
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

 PROPOSED STORM SEWER
 EXISTING STORM SEWER (TO REMAIN)
 EXISTING IRRIGATION
 PROPOSED IRRIGATION



City of Madison
 Department of Public Works
PARKS DIVISION
 City-County Building, Suite 104
 210 Martin Luther King, Jr. Blvd.
 Madison, WI 53703

play
**MADISON
 PARKS**



PROJECT:
**FOREST HILL
 CEMETERY
 IMPROVEMENTS**

**FOREST HILL
 CEMETERY
 1 SPEEDWAY RD
 MADISON, WI 53715**

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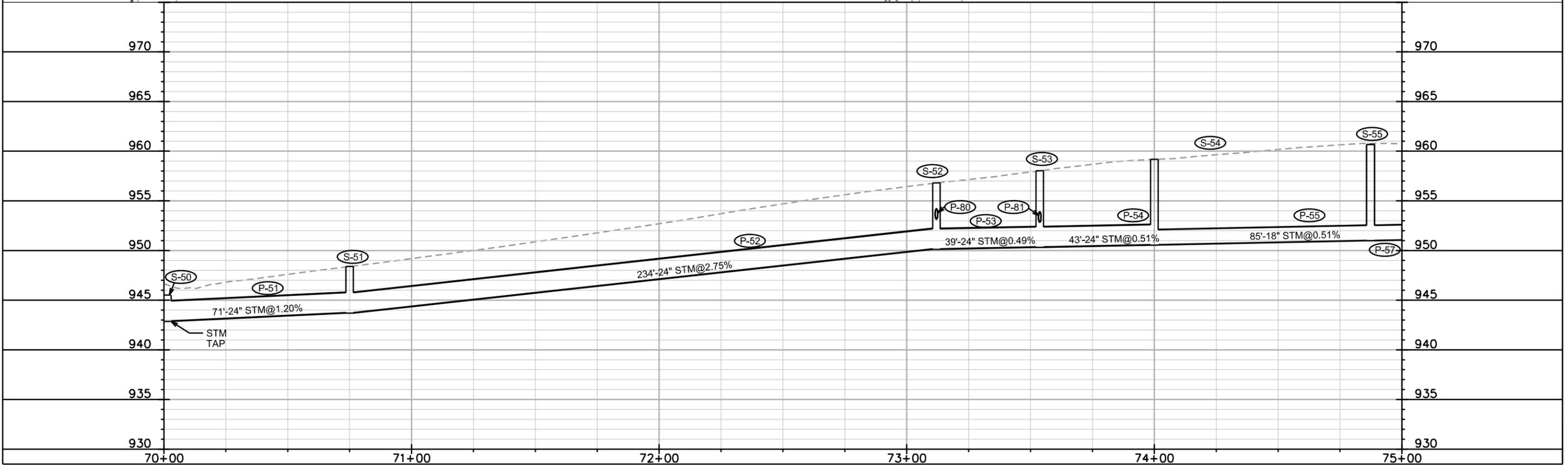
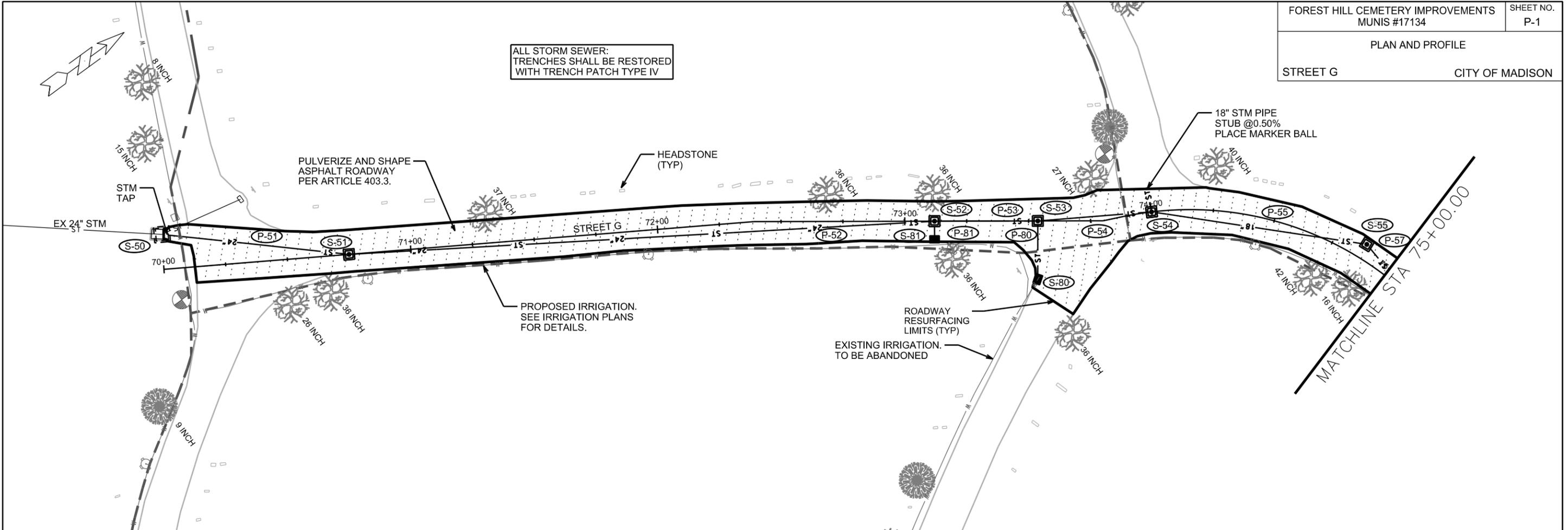
ITEM	DATE
Drawn by: CCS	1-9-2017

PUBLIC WORKS PROJECT #:
7948

SHEET TITLE:
OVERVIEW

SHEET NUMBER:
D-2

ALL STORM SEWER TRENCHES SHALL BE RESTORED WITH TRENCH PATCH TYPE IV

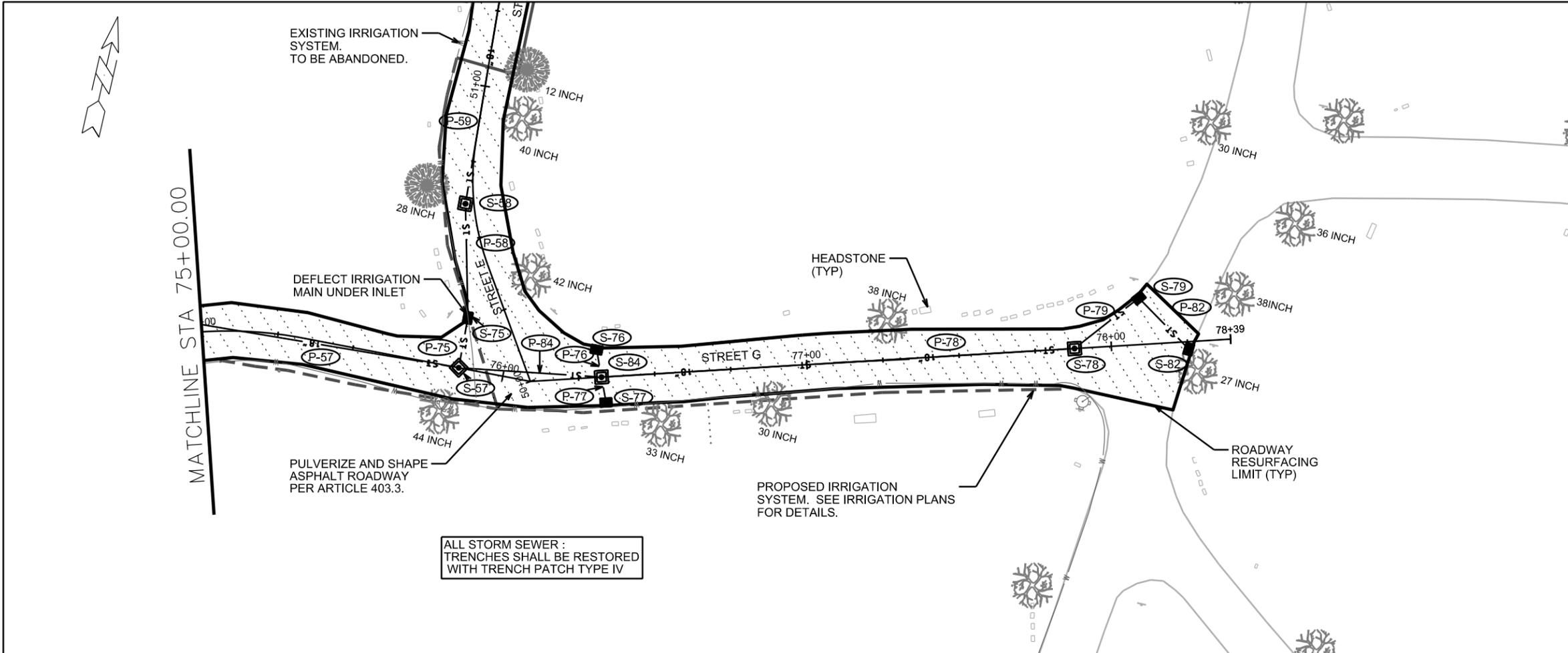


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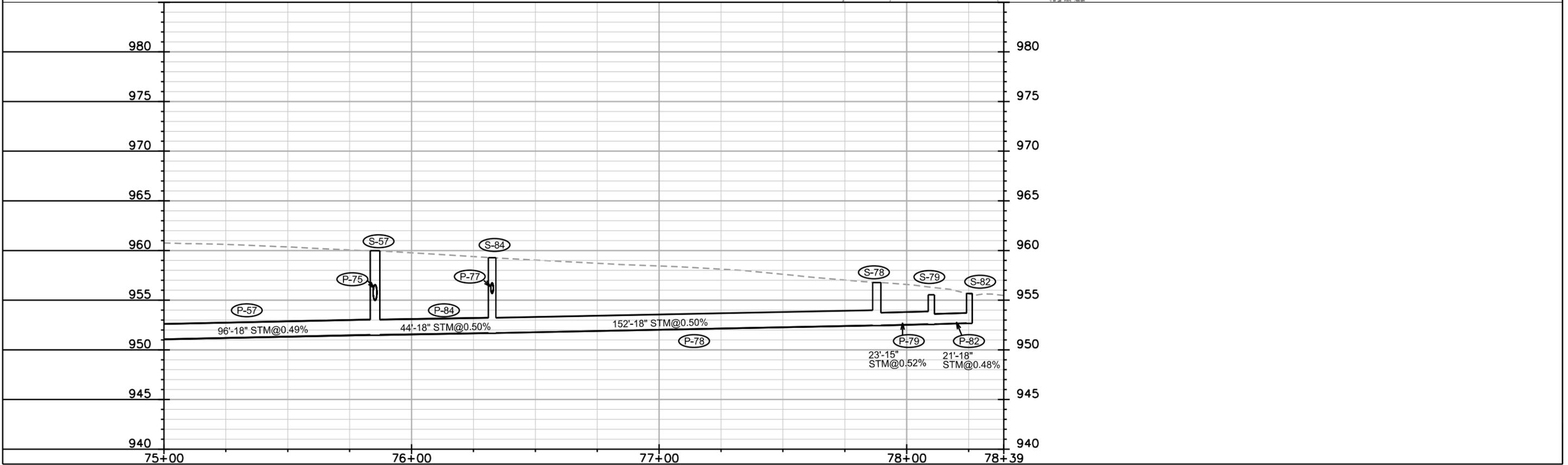
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



ALL STORM SEWER TRENCHES SHALL BE RESTORED WITH TRENCH PATCH TYPE IV



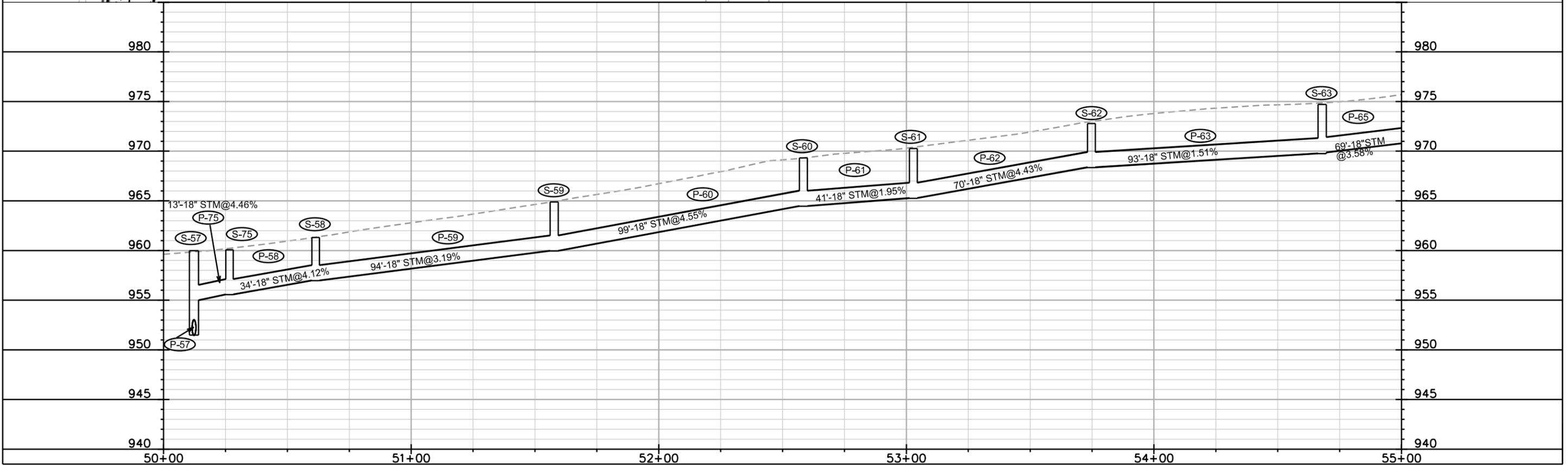
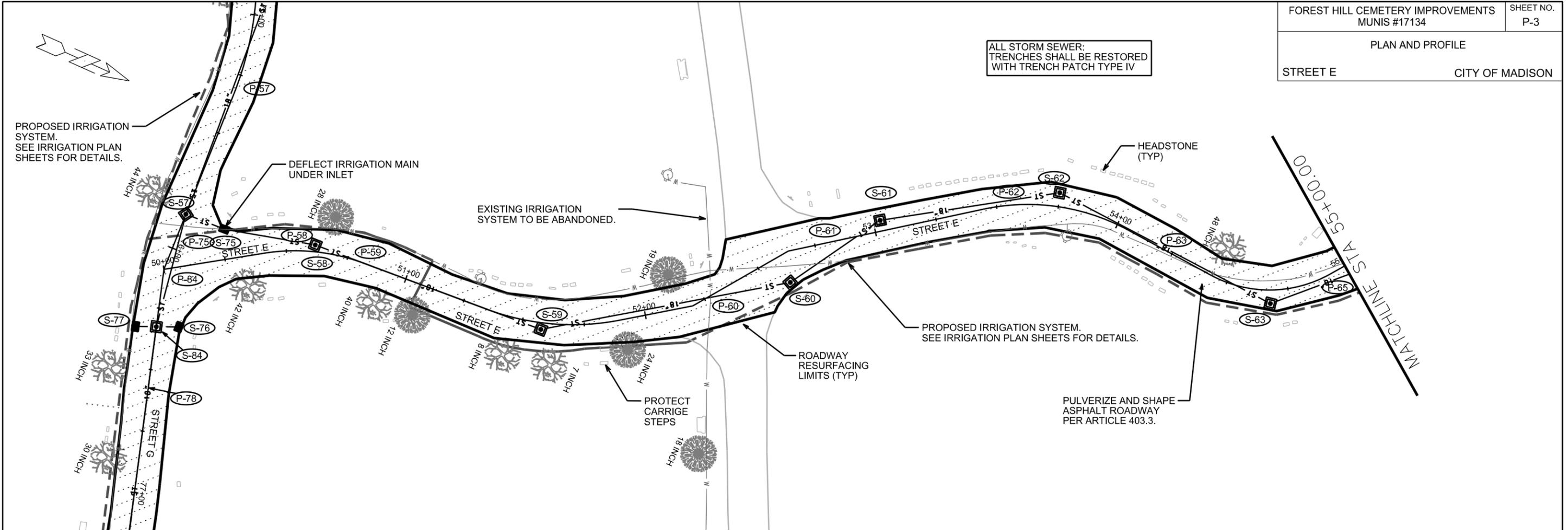
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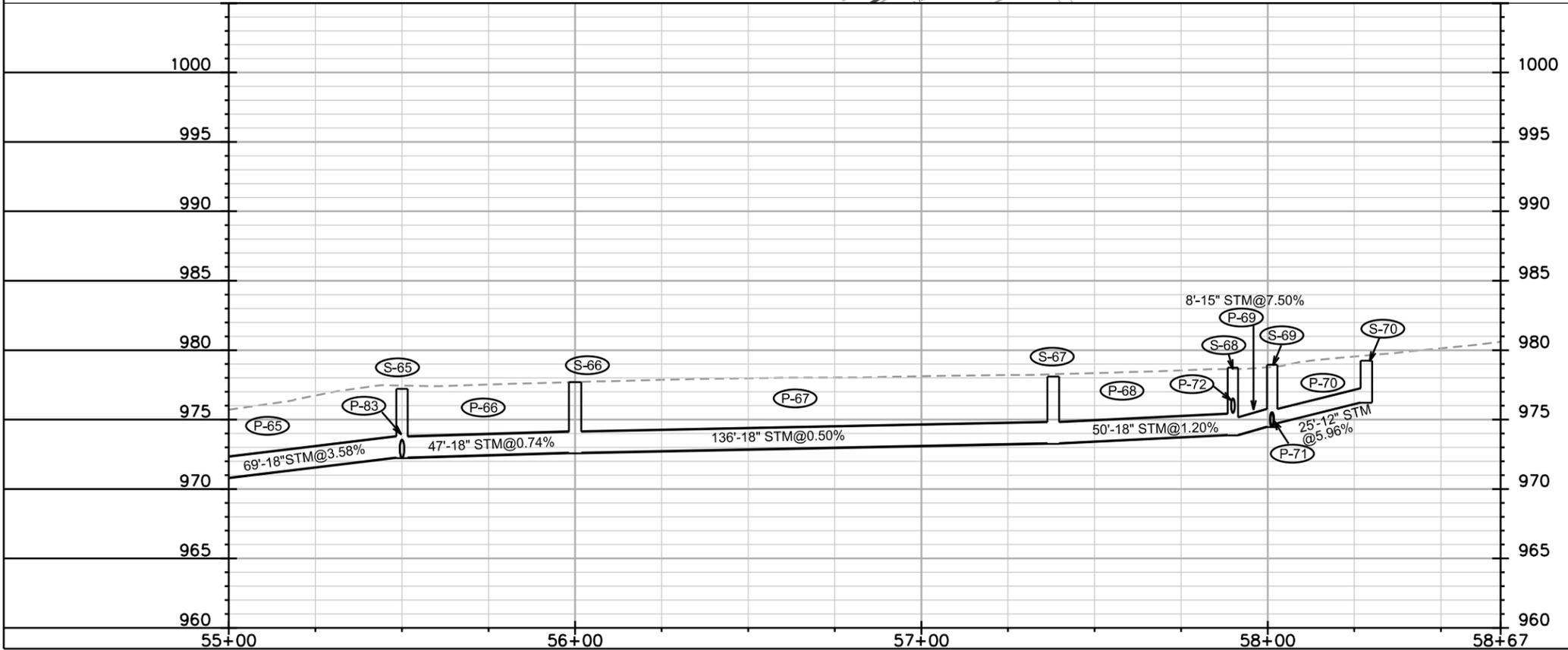
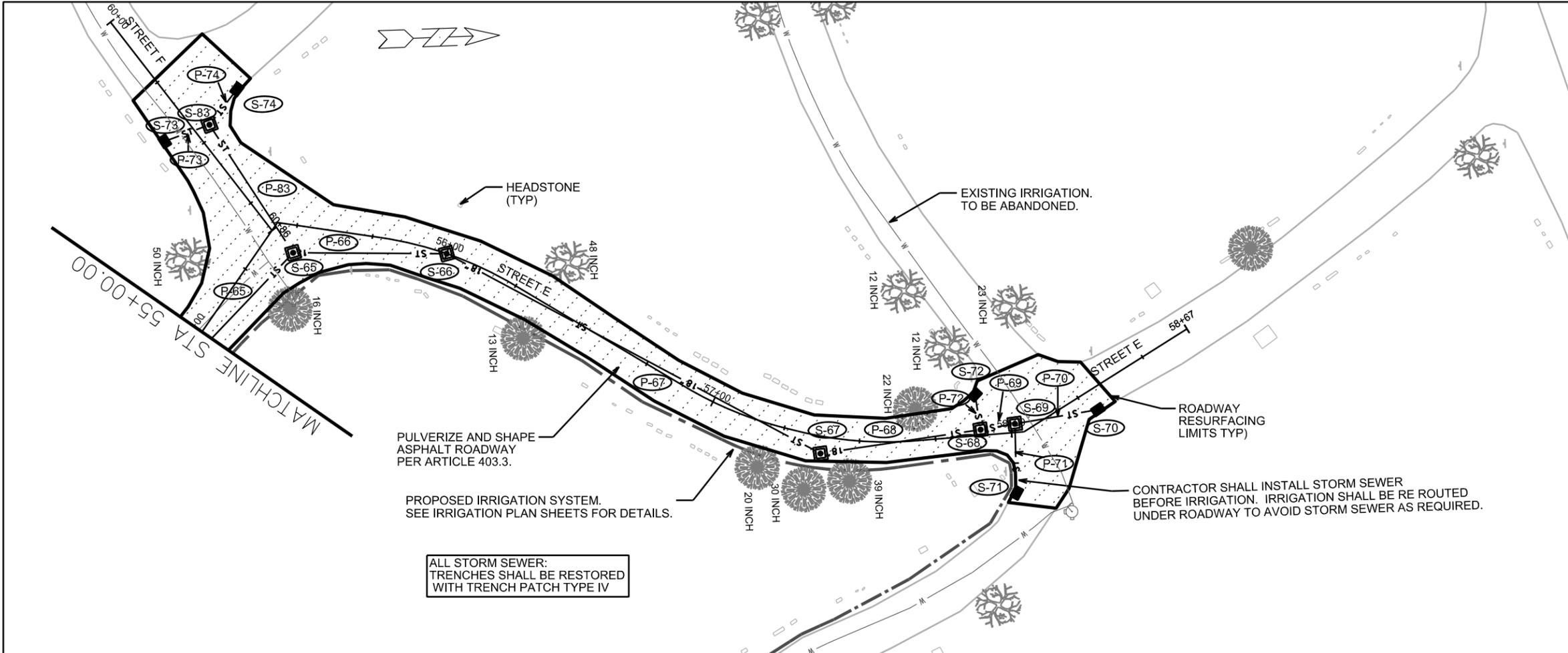


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PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

STORM SEWER SCHEDULE

FOREST HILL CEMETERY IMPROVEMENTS MUNIS #17134	SHEET NO. P-5
STORM SEWER SCHEDULE	
CITY OF MADISON	

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
STREET G							
S-50	70+00.00	LT-14.00	EX SAS	945.52	942.90	2.62	STM TAP @ INVERT
S-51	70+75.00	RT-0'	3X3 SAS	947.89	943.75	4.14	W/R-1550-0054-OPEN; (1); (2)
S-52	73+12.01	RT-0'	3X3 SAS	956.31	950.18	6.13	W/R-1550-0054-OPEN; (1)
S-53	73+53.73	RT-0'	3X3 SAS	957.53	950.37	7.16	W/R-1550-0054-OPEN; (1)
S-54	74+25.00	RT-0'	BEND	959.64	950.59	9.05	W/R-3067-7004-V
S-55	74+87.31	LT-6.18	3X3 SAS	960.17	951.02	9.15	W/R-1550-0054-OPEN; (1)
S-57	75+85.27	RT-0'	3X3 SAS	959.48	951.49	7.99	W/R-1550-0054-OPEN; (1)
S-75	75+85.15	LT-16.63	H INLET	959.58	955.60	3.98	FP; W/R-3067-7004-V
S-76	76+31.38	LT-9.84	H INLET	959.31	956.10	3.21	W/R-3067-7004-V
S-77	76+33.54	RT-8.37	H INLET	958.99	955.80	3.19	W/R-3067-7004-V
S-78	77+87.92	RT-0'	3X3 SAS	956.28	952.47	3.81	W/R-1550-0054-OPEN; (1); (2)
S-79	78+09.86	LT-15.04	H INLET	955.56	952.59	2.97	W/R-3067-7004-V
S-80	73+53.63	RT-23.48	H INLET	957.55	954.50	3.05	W/R-3067-7004-V
S-81	73+12.01	RT-7.29	H INLET	956.60	953.50	3.10	W/R-3067-7004-V
S-82	78+25.32	RT-2.47	H INLET	955.69	952.69	3.00	W/R-3067-7004-V
S-84	76+32.55	RT-0'	3X3 SAS	958.78	951.71	7.07	W/R-1550-0054-OPEN; (1)
STREET E							
S-58	50+61.43	LT-2.76	BEND	961.31	957.00	4.31	W/R-3067-7004-V
S-59	51+57.76	RT-2.73	3X3 SAS	964.39	960.00	4.39	W/R-1550-0054-OPEN; (1)
S-60	52+58.66	RT-12.76	3X3 SAS	968.82	964.50	4.32	W/R-1550-0054-OPEN; (1)
S-61	53+02.91	LT-8.01	3X3 SAS	969.65	965.30	4.35	W/R-1550-0054-OPEN; (1)
S-62	53+74.76	LT-5.66	BEND	972.78	968.40	4.38	W/R-3067-7004-V
S-63	54+67.90	RT-7.13	3X3 SAS	974.15	969.80	4.35	W/R-1550-0054-OPEN; (1)
S-65	55+50.02	RT-9.05	3X3 SAS	976.71	972.27	4.44	W/R-1550-0054-OPEN; (1)
S-66	56+00.00	RT-0'	BEND	977.70	972.62	5.08	W/R-3067-7004-V
S-67	57+38.26	RT-6.20	3X3 SAS	977.59	973.30	4.29	W/R-1550-0054-OPEN; (1)
S-68	57+89.96	LT-1.86	3X3 SAS	978.24	973.90	4.34	W/R-1550-0054-OPEN; (1)
S-69	58+01.32	LT-2.84	3X3 SAS	978.46	974.50	3.96	W/R-1550-0054-OPEN; (1)
S-70	58+28.50	RT-6.79	H INLET	979.24	976.24	3.00	W/R-3067-7004-V
S-71	58+00.08	RT-19.72	H INLET	977.71	974.71	3.00	W/R-3067-7004-V
S-72	57+89.10	LT-13.37	H INLET	979.08	976.08	3.00	W/R-3067-7004-V
STREET F							
S-83	60+46.44	LT-5.03	3X3 SAS	977.25	973.69	3.56	W/R-1550-0054-OPEN; (1)
S-73	60+41.73	RT-9.90	H INLET	977.10	974.10	3.00	W/R-3067-7004-V
S-74	60+42.82	LT-19.28	H INLET	977.85	974.85	3.00	W/R-3067-7004-V

PROPOSED STORM PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
P-51	S-50	S-51	942.90	943.75	76.0	71.0	1.20%	24"	RCP	
P-52	S-51	S-52	943.75	950.18	237	234.0	2.75%	24"	RCP	
P-53	S-52	S-53	950.18	950.37	42	39.0	0.49%	24"	RCP	
P-54	S-53	S-54	950.37	950.59	46.0	43.0	0.51%	24"	RCP	
P-55	S-54	S-55	950.59	951.02	88.0	85.0	0.51%	18"	RCP	
P-57	S-55	S-57	951.02	951.49	99.0	96.0	0.49%	18"	RCP	
P-58	S-75	S-58	955.60	957.00	37.0	34.0	4.12%	18"	RCP	
P-59	S-58	S-59	957.00	960.00	97.0	94.0	3.19%	18"	RCP	
P-60	S-59	S-60	960.00	964.50	102.0	99.0	4.55%	18"	RCP	
P-61	S-60	S-61	964.50	965.30	44.0	41.0	1.95%	18"	RCP	
P-62	S-61	S-62	965.30	968.40	73.0	70.0	4.43%	18"	RCP	
P-63	S-62	S-63	968.40	969.80	96.0	93.0	1.51%	18"	RCP	
P-65	S-63	S-65	969.80	972.27	73.0	69.0	3.58%	18"	RCP	
P-66	S-65	S-66	972.27	972.62	50.0	47.0	0.74%	18"	RCP	
P-67	S-66	S-67	972.62	973.30	139.0	136.0	0.50%	18"	RCP	
P-68	S-67	S-68	973.30	973.90	53.0	50.0	1.20%	18"	RCP	
P-69	S-68	S-69	973.90	974.50	11.0	8.0	7.50%	15"	RCP	
P-70	S-69	S-70	974.75	976.24	28.0	25.0	5.96%	12"	RCP	
P-71	S-69	S-71	974.50	974.71	23.0	19.0	1.11%	12"	RCP	
P-72	S-69	S-72	975.50	976.08	11.0	9.0	6.44%	12"	RCP	NCM
P-73	S-83	S-73	973.69	974.10	16.0	13.0	3.15%	12"	RCP	
P-74	S-83	S-74	974.44	974.85	15.0	11.0	3.73%	12"	RCP	NCM
P-75	S-57	S-75	954.99	955.60	17	13.0	4.69%	18"	RCP	NCM
P-76	S-84	S-76	955.71	956.10	9.0	7.0	5.57%	12"	RCP	NCM
P-77	S-84	S-77	955.71	955.80	8.0	6.0	1.50%	12"	RCP	NCM
P-78	S-84	S-78	951.71	952.47	155.0	152.0	0.50%	18"	RCP	
P-79	S-78	S-79	952.47	952.59	27.0	23.0	0.52%	15"	RCP	
P-80	S-53	S-80	952.87	954.50	23.0	20.0	8.15%	12"	RCP	NCM
P-81	S-52	S-81	953.18	953.50	7.0	5.0	6.40%	12"	RCP	NCM
P-82	S-79	S-82	952.59	952.69	23.0	21.0	0.48%	12"	RCP	
P-83	S-65	S-83	972.27	973.69	50.0	47.0	3.02%	15"	RCP	
P-84	S-57	S-84	951.49	951.71	47.0	44.0	0.50%	18"	RCP	

NOTE: PLAN LENGTH IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTH IS ACTUAL LENGTH OF PIPE FROM STRUCTURE WALL TO STRUCTURE WALL. SLOPE CALCULATED USING PIPE LENGTH.

STANDARD NOTES:

- ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; HERCP = HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE; DNA = DOES NOT APPLY; SAS = SEWER ACCESS STRUCTURE; LP = LOW POINT INLET STRUCTURE; FP = FIELD POURED STRUCTURE; TR = TOP OF CONCRETE ROOF; NCM = NO CROWN MATCH FOR PIPES; UD = UNDERDRAIN
- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS's.
- TOP OF CONCRETE ROOF (TR) IS 1.25' BELOW TOP OF CASTING UNLESS OTHERWISE NOTED.
- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.
- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.
- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY PARKS FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT COREY STELLJES OF CITY PARKS AT (608) 266-6518 FOR PRECAST APPROVALS, EMAIL SHOP DRAWINGS TO CSTELLJES@CITYOFMADISON.COM.

SPECIFIC NOTES

- (1) TOP OF CASTING ELEVATION ADJUSTED 0.5' LOWER THAN EXISTING ASPHALT BASED ON AN ESTIMATED 7"-9" OF EXISTING ASPHALT AND 3" PROPOSED ASPHALT THICKNESS. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY ADJUSTMENTS NEEDED DURING ASPHALT REMOVAL.
- (2) STRUCTURE DEPTH REQUIRES USE OF 4" CASTING

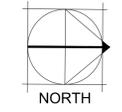
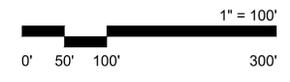
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DATE	02/03/17
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DOCUMENT NO.	

LEGEND

- CL 200 PVC PIPE - Mainline, sizes vary; FOLLOWS EXISTING ROUTES
 - CL 200 PVC PIPE - Mainline, sizes vary; NEW ROUTE
 - ISOLATION GATE VALVE - Size to pipe
 - HUNTER 1" Quick Coupler - HQ-44LRC-R
Provide owner with two Valve Keys and Hose Swivels, HK-44 key and HS-1 Hose Swivel
 - HOSE BIB Location; See Detail
 - 3" POINT OF CONNECTION
 - 2" BLOW OUT TAP
 - AIR RELEASE VALVE
 - Pipe size
 - PVC Class 200 Sleeve - Size per plan
- 4" SI 3" Bore 20'
PVC Pipe Bore Size Length of Bore
Sleeve Size

Stake and receive project manager approval for all bores prior to boring.

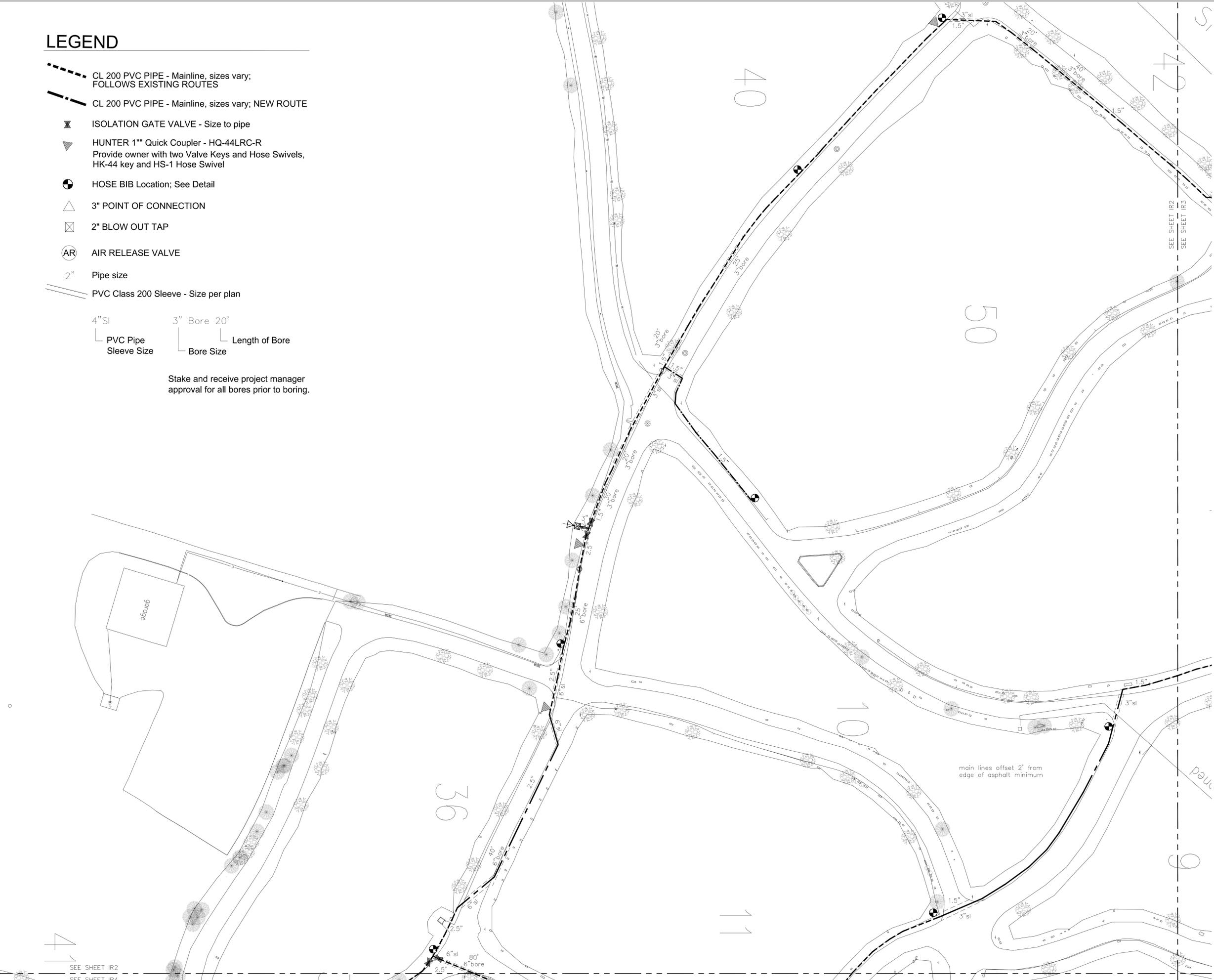


LEGEND

-  CL 200 PVC PIPE - Mainline, sizes vary; FOLLOWS EXISTING ROUTES
-  CL 200 PVC PIPE - Mainline, sizes vary; NEW ROUTE
-  ISOLATION GATE VALVE - Size to pipe
-  HUNTER 1" Quick Coupler - HQ-44LRC-R
Provide owner with two Valve Keys and Hose Swivels, HK-44 key and HS-1 Hose Swivel
-  HOSE BIB Location; See Detail
-  3" POINT OF CONNECTION
-  2" BLOW OUT TAP
-  AIR RELEASE VALVE
- 2" Pipe size
-  PVC Class 200 Sleeve - Size per plan



Stake and receive project manager approval for all bores prior to boring.

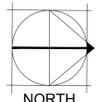


IRRIGATION PLAN SW QUADRANT

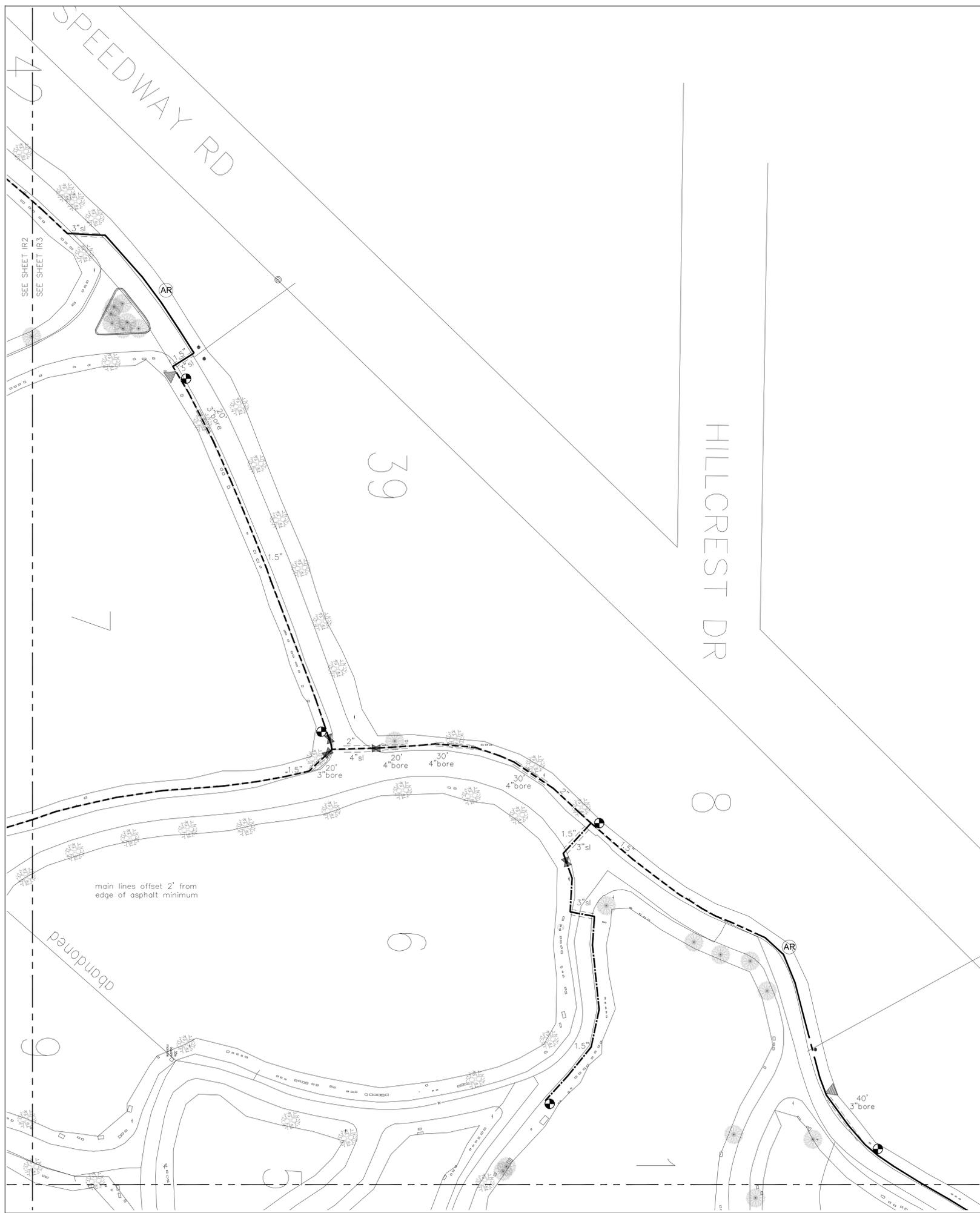
Forest Hill Cemetery Madison, Wisconsin

REVISIONS

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IR2



LEGEND

-  CL 200 PVC PIPE - Mainline, sizes vary; FOLLOWS EXISTING ROUTES
-  CL 200 PVC PIPE - Mainline, sizes vary; NEW ROUTE
-  ISOLATION GATE VALVE - Size to pipe
-  HUNTER 1" Quick Coupler - HQ-44LRC-R
Provide owner with two Valve Keys and Hose Swivels, HK-44 key and HS-1 Hose Swivel
-  HOSE BIB Location; See Detail
-  3" POINT OF CONNECTION
-  2" BLOW OUT TAP
-  AIR RELEASE VALVE
-  2" Pipe size
-  PVC Class 200 Sleeve - Size per plan



Stake and receive project manager approval for all bores prior to boring.

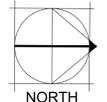
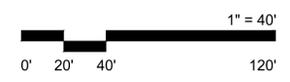


IRRIGATION PLAN NW QUADRANT

Forest Hill Cemetery Madison, Wisconsin

REVISIONS	

IR3



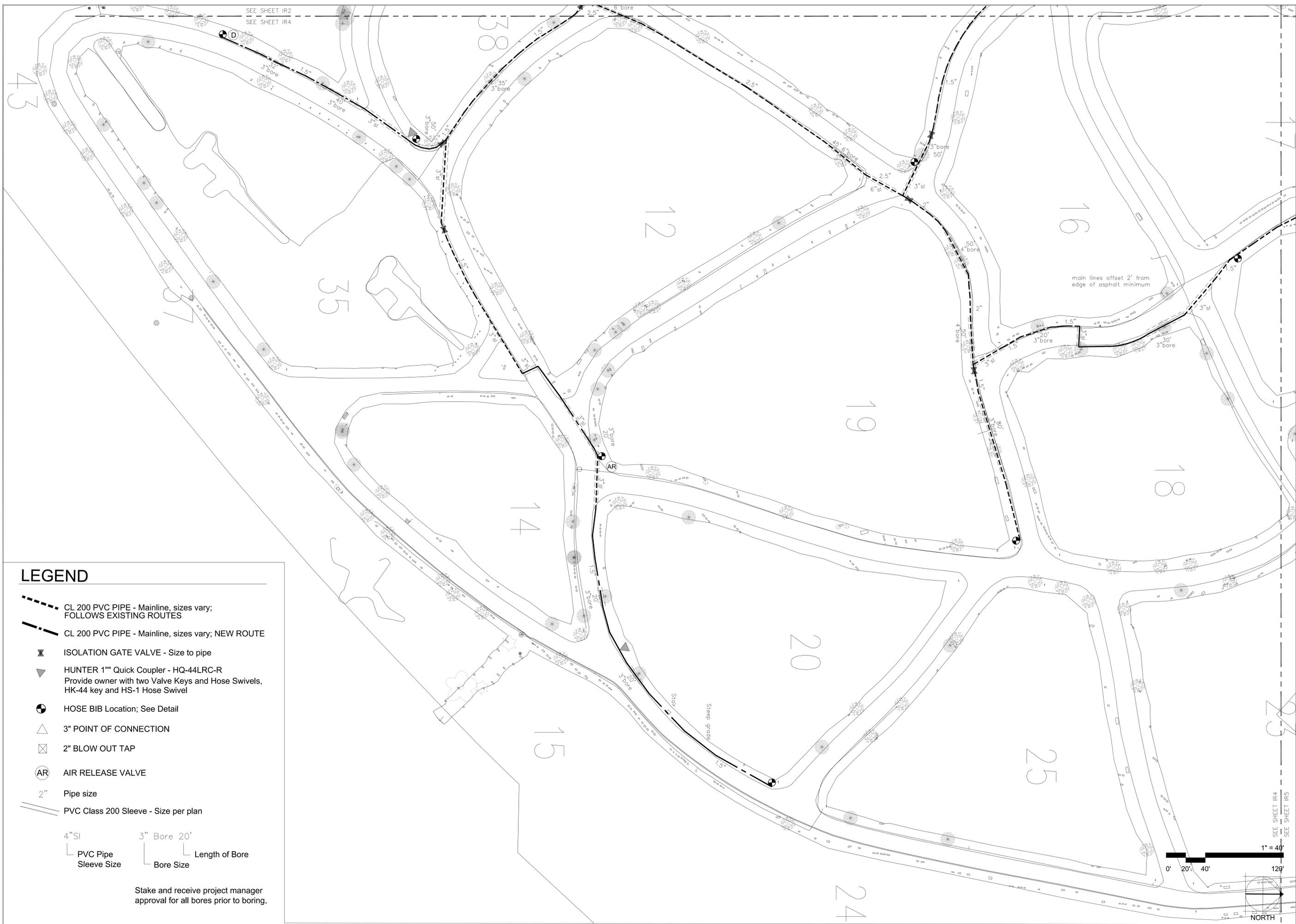
SEE SHEET IR3
SEE SHEET IR5

SEE SHEET IR2
SEE SHEET IR4



IRRIGATION PLAN
SE QUADRANT

Forest Hill Cemetery
Madison, Wisconsin



LEGEND

- CL 200 PVC PIPE - Mainline, sizes vary; FOLLOWS EXISTING ROUTES
 - CL 200 PVC PIPE - Mainline, sizes vary; NEW ROUTE
 - ISOLATION GATE VALVE - Size to pipe
 - HUNTER 1" Quick Coupler - HQ-44LRC-R
Provide owner with two Valve Keys and Hose Swivels, HK-44 key and HS-1 Hose Swivel
 - HOSE BIB Location; See Detail
 - 3" POINT OF CONNECTION
 - 2" BLOW OUT TAP
 - AIR RELEASE VALVE
 - 2" Pipe size
 - PVC Class 200 Sleeve - Size per plan
- 4" SI 3" Bore 20'
 PVC Pipe Bore Size Length of Bore
 Sleeve Size

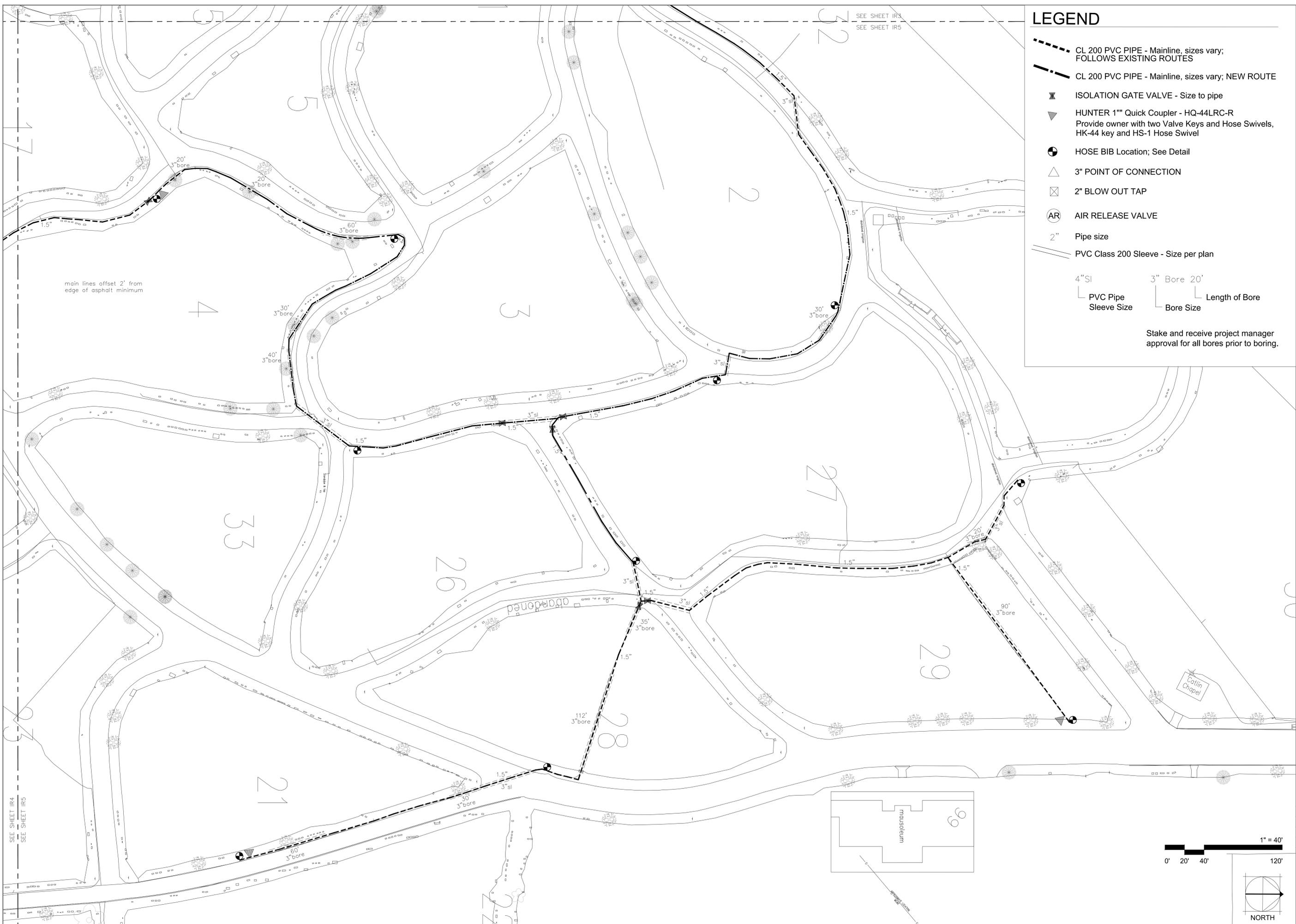
Stake and receive project manager approval for all bores prior to boring.



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IR4

SEE SHEET IR4
SEE SHEET IR5



LEGEND

- CL 200 PVC PIPE - Mainline, sizes vary; FOLLOWS EXISTING ROUTES
- CL 200 PVC PIPE - Mainline, sizes vary; NEW ROUTE
- ISOLATION GATE VALVE - Size to pipe
- HUNTER 1" Quick Coupler - HQ-44LRC-R
Provide owner with two Valve Keys and Hose Swivels, HK-44 key and HS-1 Hose Swivel
- HOSE BIB Location; See Detail
- 3" POINT OF CONNECTION
- 2" BLOW OUT TAP
- AIR RELEASE VALVE
- 2" Pipe size
- PVC Class 200 Sleeve - Size per plan

4" Sl
PVC Pipe Sleeve Size

3" Bore 20'
Bore Size

Length of Bore

Stake and receive project manager approval for all bores prior to boring.

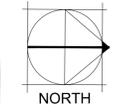


**IRRIGATION PLAN
NE QUADRANT**

Forest Hill Cemetery
Madison, Wisconsin

REVISIONS

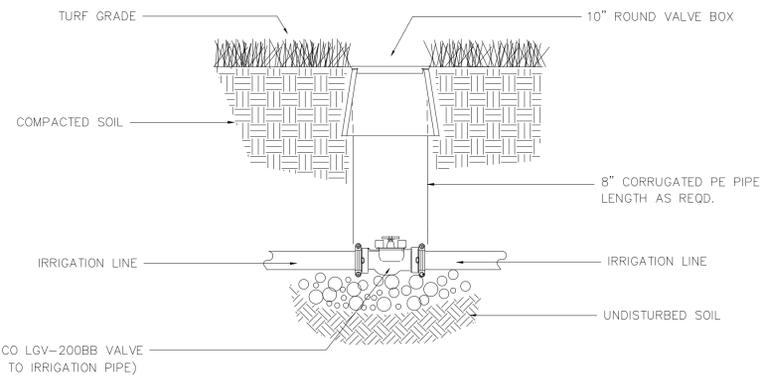
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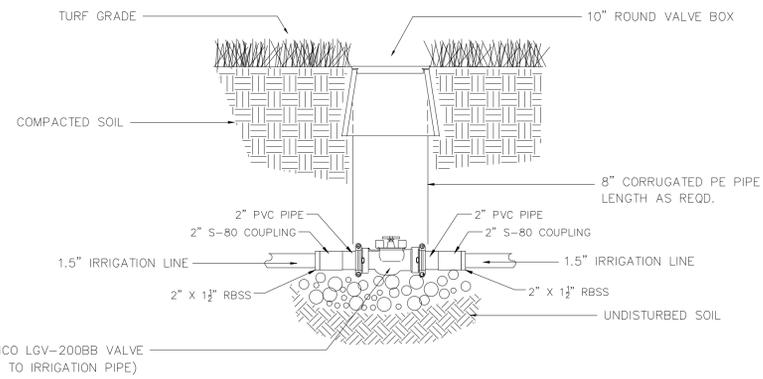
IR5

SEE SHEET IR4
SEE SHEET IR5

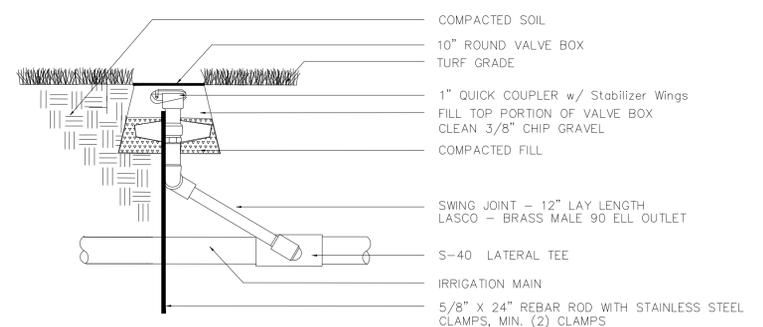
SEE SHEET IR3
SEE SHEET IR5



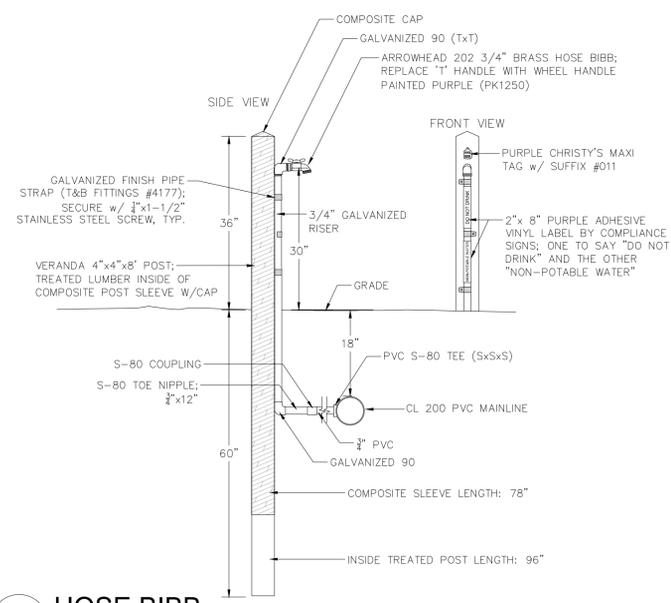
1 ISOLATION VALVE 2" and LARGER NO SCALE



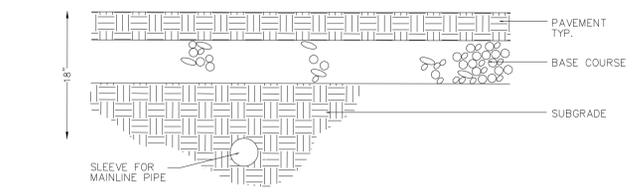
2 2" ISOLATION VALVE w/ 1.5" PIPE NO SCALE



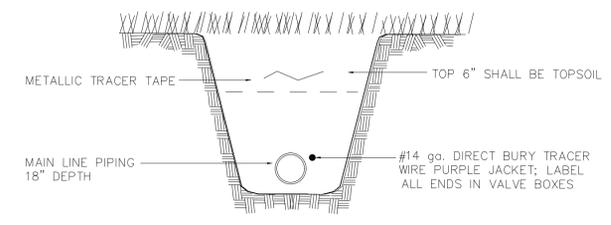
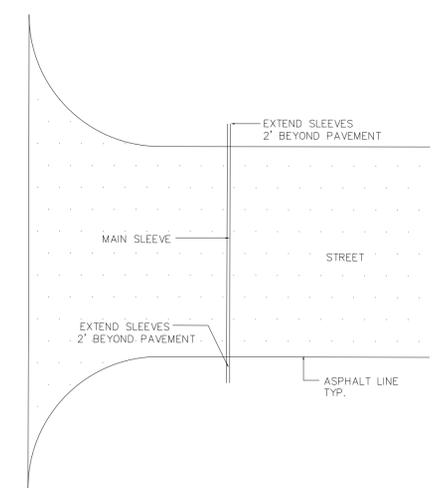
3 QUICK COUPLER VALVE NO SCALE



4 HOSE BIBB NO SCALE

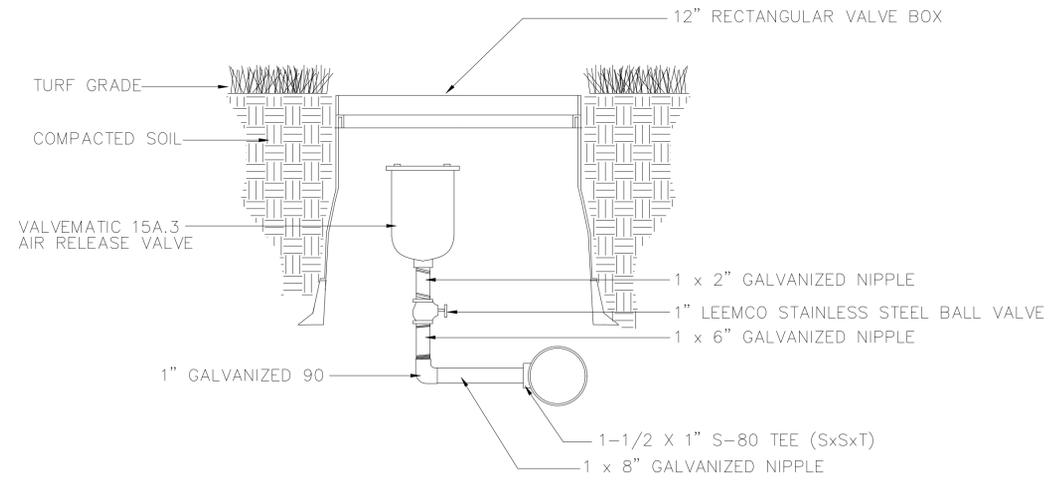


5 SLEEVING NO SCALE



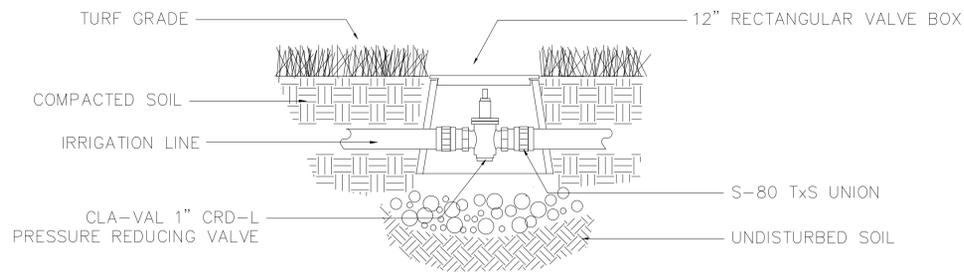
6 MAINLINE PIPE & TRACER TAPE NO SCALE

REVISIONS	
DATE	02/03/17
DRAWN:	AMA
CHECKED:	DPF
DOCUMENT NO.	



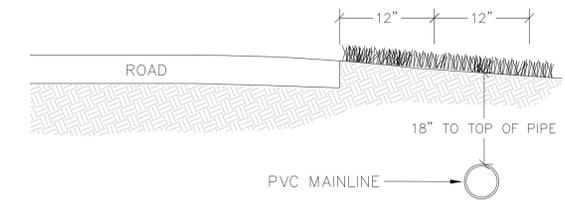
1 AIR RELEASE VALVE

NO SCALE



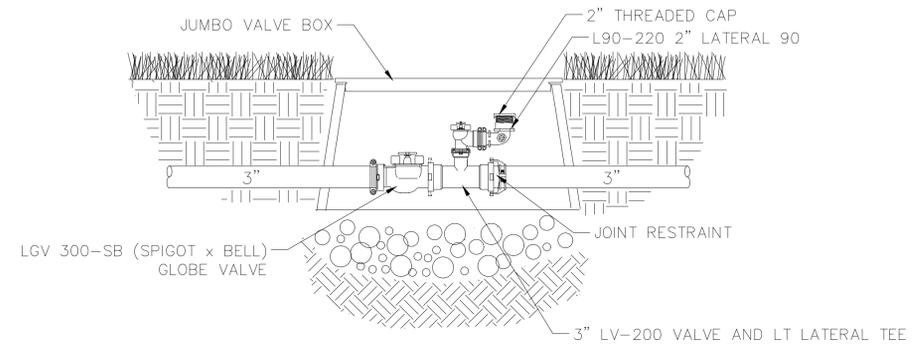
2 PRESSURE REDUCING VALVE

NO SCALE



3 ROAD CROSS-SECTION

NO SCALE



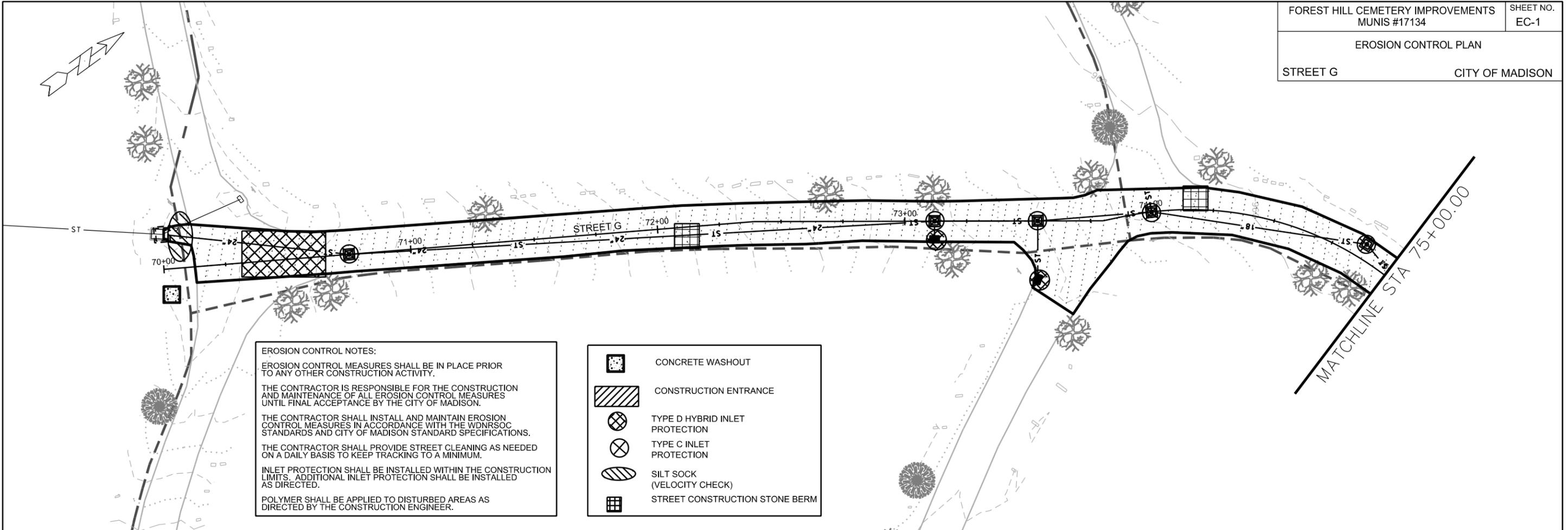
5 BLOW OUT TEE @ P.O.C.

NO SCALE

REVISIONS

DATE: 02/03/17
DRAWN: AMA
CHECKED: DPF
DOCUMENT NO.

IR7



EROSION CONTROL NOTES:

EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.

THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

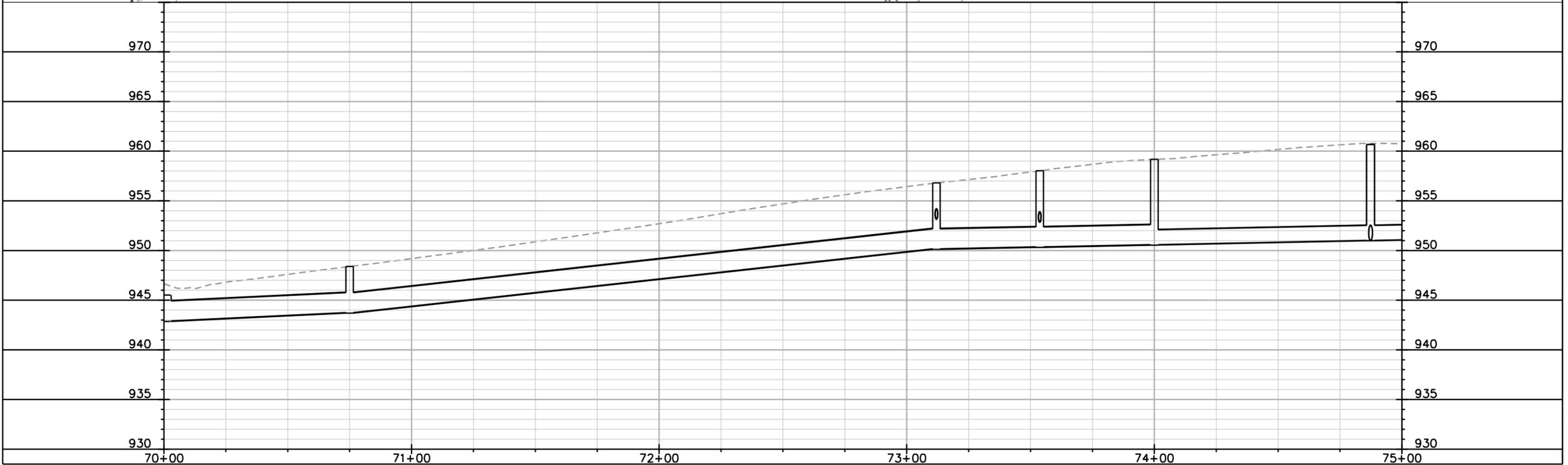
THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDNR SOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.

INLET PROTECTION SHALL BE INSTALLED WITHIN THE CONSTRUCTION LIMITS. ADDITIONAL INLET PROTECTION SHALL BE INSTALLED AS DIRECTED.

POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.

-  CONCRETE WASHOUT
-  CONSTRUCTION ENTRANCE
-  TYPE D HYBRID INLET PROTECTION
-  TYPE C INLET PROTECTION
-  SILT SOCK (VELOCITY CHECK)
-  STREET CONSTRUCTION STONE BERM



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

EROSION CONTROL NOTES:

EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.

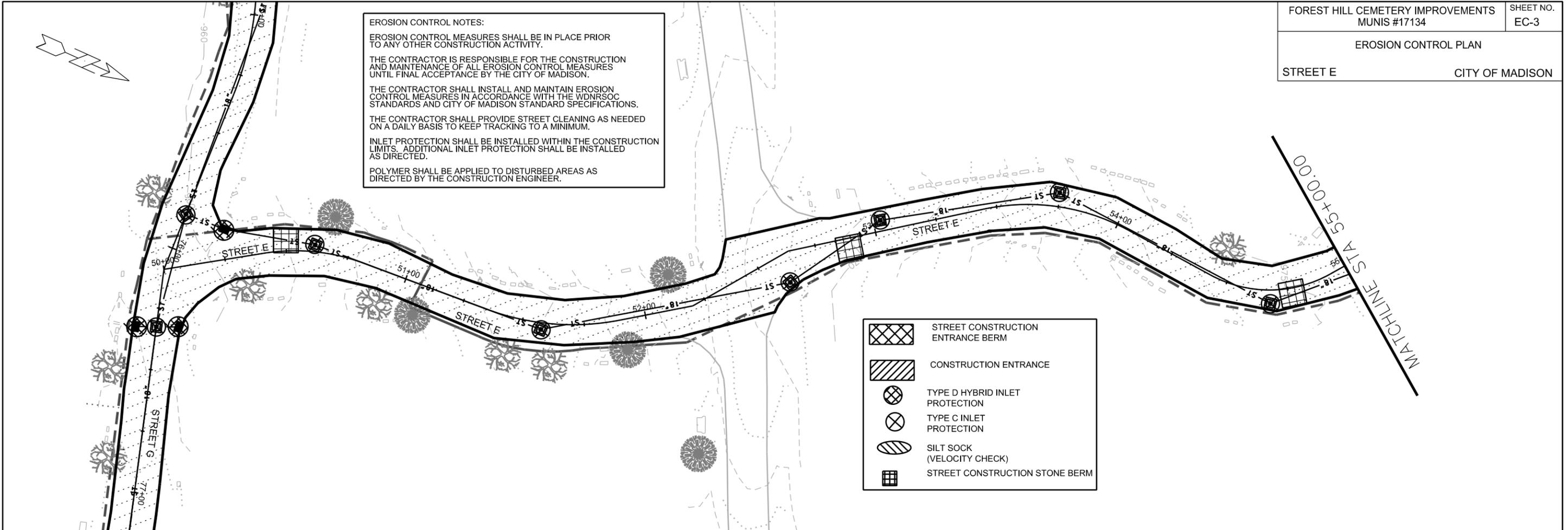
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	STREET CONSTRUCTION ENTRANCE BERM
	CONSTRUCTION ENTRANCE
	TYPE D HYBRID INLET PROTECTION
	TYPE C INLET PROTECTION
	SILT SOCK (VELOCITY CHECK)
	STREET CONSTRUCTION STONE BERM

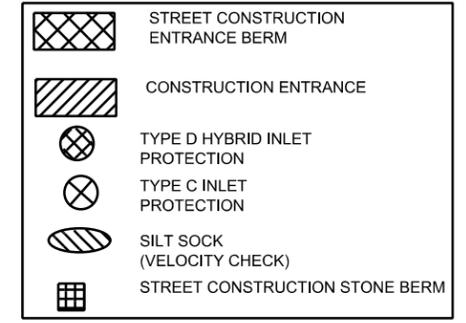
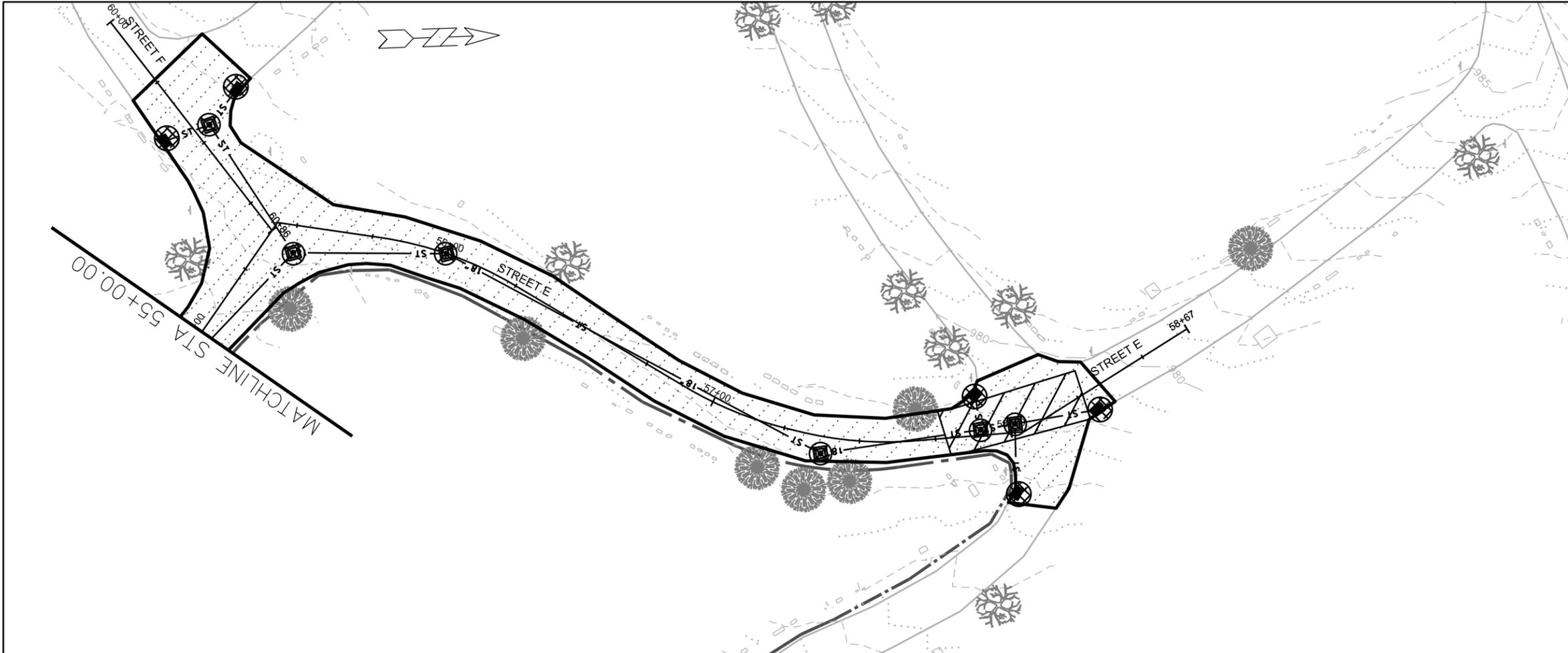


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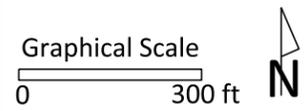
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PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PROJECT:
**FOREST HILL
 CEMETERY
 IMPROVEMENTS**

**FOREST HILL
 CEMETERY
 1 SPEEDWAY RD
 MADISON, WI 53715**

Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

ITEM	DATE
Drawn by: CCS	1-9-2017

PUBLIC WORKS PROJECT #:
7948

SHEET TITLE:
**EROSION CONTROL
 PLAN- IRRIGATION**

SHEET NUMBER:
EC-5

— PROPOSED STORM SEWER
 - - - EXISTING STORM SEWER (TO REMAIN)
 - - - PROPOSED IRRIGATION
 SILT SOCK (VELOCITY CHECK)

EROSION CONTROL NOTES:
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* EROSION CONTROL PLAN FOR IRRIGATION MAIN INSTALLED BY TRENCHING MACHINE. SEE PAGES EC-1 THROUGH EC-4 FOR EROSION CONTROL FOR STORMSEWER AND PAVEMENT CONSTRUCTION.

