DRAINAGE PLAN - 1

UNIVERSITY OF ILLINOIS
EVERITT LABORATORY

SEE TYPICAL SECTIONS AND DETAILS FOR PIPE UNDERDRAIN LOCATION.

STA. 1005+20.23, 60.41' LT.
ELEV. = 721.07

CONSTRUCTION LIMITS, (TYP.)

STA. 1002+08.38, 36.52' LT.
ELEV. = 722.31

STA. 1003+27.44, 51.63' LT.
ELEV. = 721.94

PROPOSED ℄ WRIGHT ST.

BEGIN IMPROVEMENTS
STA. 1001+71.29

STA. 1001+49.74 (℄ GREEN ST.)
STA. 4019+19.21 (℄ WRIGHT ST.)

PROPOSED WATERMAIN
SEE WATERMAIN PLANS
FOR MORE INFORMATION

PIPE UNDERDRAINS,
INV. = 719.23

PIPE UNDERDRAINS,
TYPE 1, 6"

PIPE UNDERDRAINS,
INV. = 718.98

PIPE UNDERDRAINS,
INV. = 718.60

STA. 1002+50.59, 30.50' RT.
ELEV. = 722.06

PIPE UNDERDRAINS,
TYPE 1, 6"

PROPOSED ℄
GREEN ST.

MATCH LINE - STA. 1006+00.00

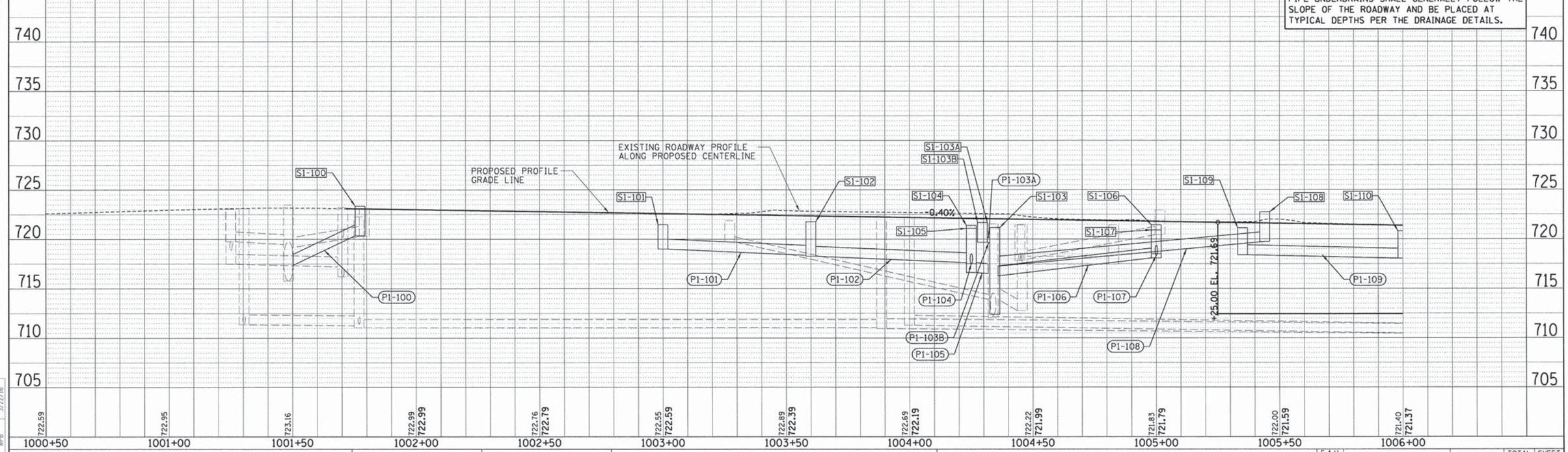
SCALE: 1" = 20'

SEE REMOVAL PLANS FOR STRUCTURE REMOVALS, RECONSTRUCTIONS, AND ADJUSTMENTS.

SEE DRAINAGE STRUCTURE AND PIPE SCHEDULES FOR STRUCTURE LOCATIONS, ELEVATIONS AND STORM SEWER TYPES AND PIPE SLOPES.

DRAINAGE SWALE ELEVATIONS ARE SHOWN AT ALL VPI LOCATIONS EXCEPT SAG LOCATIONS. SEE DRAINAGE STRUCTURE SCHEDULE FOR SAG ELEVATIONS. SWALE SHALL BE GRADED FROM VPI/SAG LOCATIONS TO MATCH PROPOSED SIDEWALK/DRIVEWAY LOCATIONS.

PIPE UNDERDRAINS SHALL GENERALLY FOLLOW THE SLOPE OF THE ROADWAY AND BE PLACED AT TYPICAL DEPTHS PER THE DRAINAGE DETAILS.



FILE NAME = Z:\Plans\sheets\Project1\P1-sht-GRNE-Drain01.dgn	DESIGNED - BAB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
PLOT DATE = 8/25/2016 1:28:40 PM	DRAWN - RLA	REVISED -	
	CHECKED - MPB	REVISED -	
	DATE - 8/26/2016	REVISED -	

PROJECT 1 - GREEN STREET
DRAINAGE PLAN

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. 1001+71.29 TO STA. 1006+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7126	15-00304-01-PV	CHAMPAIGN	236	46
	MCORE PROJECT 1	CONTRACT NO. 91539		
	JOB NO. C-95-305-16	ILLINOIS	FED. AID PROJECT TIG-5181(057)	

	BY	DATE
PLAN	SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME	
NOTE BOOK NO.		

	BY	DATE
PROFILE	SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHKD	
NOTE BOOK NO.		

LAYOUT	BAB	11/24/15
DRAWN	RLA	2/4/16
REVIEWED	MPB	3/22/16

© Copyright Hanson Professional Services Inc. 2016

HANSON
Hanson Professional Services Inc.

DRAINAGE STRUCTURE AND PIPE SCHEDULES - GREEN ST. DRAINAGE PLAN SHEET - 1

STORM SEWER STRUCTURE SCHEDULE

STRUCTURE NUMBER	STATION	OFFSET		STRUCTURE TYPE	SPECIAL FRAME & GRATE TYPE	RIM ELEVATION	INVERT ELEVATIONS N	S	E	W
S1-100	1001+77.35	46.50	RT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-3429-A	723.52	719.52			
S1-101	1003+00.00	48.00	LT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-4342	721.47			719.00	
S1-102	1003+60.00	28.90	LT	INLETS, TYPE B, WITH SPECIAL FRAME AND GRATE	NEENAH R-3471	721.77			718.27	718.37
S1-103	1004+34.50	30.50	RT	MANHOLES, TYPE A, 4'-DIAMETER, WITH SPECIAL FRAME AND GRATE	NEENAH R-4342	721.16	EX. 712.39 718.61	EX. 712.39 718.61	717.28	
S1-103A	1004+29.50	36.00	RT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-3429-A	721.68	718.68			
S1-103B	1004+29.50	25.00	RT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-3429-A	721.68		718.68		
S1-104	1004+25.00	34.00	LT	INLETS, TYPE B, WITH SPECIAL FRAME AND GRATE	NEENAH R-3471	721.38	717.52			717.62
S1-105	1004+25.00	61.85	LT	INLETS, TYPE B, WITH SPECIAL FRAME AND GRATE	NEENAH R-4342	721.09	718.02	717.24	716.62	
S1-105A	1004+20.00	68.33	LT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-3429-A	721.60		718.10		EX. 718.17
S1-106	1005+00.00	59.65	LT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID		721.44		718.18		718.08
S1-107	1005+00.00	42.98	LT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-3429-A	721.52	718.52			
S1-108	1005+43.95	62.35	RT	INLETS, TYPE G-1		722.74				719.74
S1-109	1005+35.00	25.54	RT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-3471	721.14			718.40	
S1-110	1006+00.00	29.20	RT	INLETS, TYPE B, WITH SPECIAL FRAME AND GRATE	NEENAH R-3471	720.80			718.05	718.05

STORM SEWER PIPE SCHEDULE

PIPE NUMBER	FROM STRUCTURE	U/S INVERT	TO STRUCTURE	D/S INVERT	CLASS / TYPE	DIAMETER	LENGTH	SLOPE	TRENCH BACKFILL
P1-100	S1-100	719.52	EXISTING	717.38	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE	12	38	5.63%	11
P1-101	S1-101	719.00	S1-102	718.37	STORM SEWERS, CLASS A, TYPE 1	12	63	1.00%	8
P1-102	S1-102	718.27	S1-104	717.62	STORM SEWERS, CLASS A, TYPE 1	12	65	1.00%	9
P1-103A	S1-103A	718.68	S1-103	718.61	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	6	7	1.00%	1
P1-103B	S1-103B	718.68	S1-103	718.61	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	6	7	1.00%	1
P1-104	S1-104	717.52	S1-105	717.24	STORM SEWERS, CLASS A, TYPE 1	12	28	1.00%	4
P1-105	S1-105	716.62	EXISTING	716.50	STORM SEWERS, CLASS A, TYPE 2	12	12	1.00%	3
P1-105A	S1-105A	719.60	S1-105	719.52	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	6	8	1.00%	1
P1-106	S1-106	718.08	EXISTING	716.28	STORM SEWERS, CLASS A, TYPE 2	12	60	3.00%	10
P1-107	S1-107	718.52	S1-106	718.18	STORM SEWERS, CLASS A, TYPE 1	12	17	2.00%	2
P1-108	S1-108	719.74	S1-103	717.28	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	12	123	2.00%	16
P1-109	S1-109	718.40	S1-110	718.05	STORM SEWERS, CLASS A, TYPE 1	12	69	0.51%	9

NOTES:

1. PIPE LENGTHS SHOWN IN STORM SEWER PIPE SCHEDULE ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

2. FIELD VERIFY EXISTING STRUCTURE CONDITIONS, LOCATIONS, PIPE SIZES, AND ELEVATIONS PRIOR TO ORDERING PROPOSED STRUCTURES.

3. SPECIAL FRAME & GRATE TYPES SHALL BE AS SHOWN IN THE STORM SEWER STRUCTURE SCHEDULE OR APPROVED EQUIVALENTS.

4. SEE PLAN SHEETS FOR PIPE UNDERDRAIN INVERTS. PIPE UNDERDRAIN INVERTS ARE NOT SHOWN IN THE SCHEDULES.

5. INLET ELEVATION LOCATION:
   - INLETS, TY G-1 - SEE DETAIL
   - NEENAH R-3429-A - CENTER OF STRUCTURE
   - NEENAH R-3471 - MIDPOINT OF INLET ALONG THE EDGE OF PAVEMENT
   - NEENAH R-4342 - CENTER OF STRUCTURE
   - TY 3 - MIDPOINT OF INLET ALONG THE EDGE OF PAVEMENT
   - TY 11 - MIDPOINT OF INLET ALONG THE EDGE OF PAVEMENT

© Copyright Hanson Professional Services Inc. 2016

HANSON
Hanson Professional Services Inc.

LAYOUT	BAB	11/24/15
DRAWN	RLA	2/4/16
REVIEWED	MPB	3/22/16

FILE NAME = Z:\Plans\sheets\Project1\P1-sht-GRNE-Drain01-schedule.dgn
PLOT DATE = 8/25/2016 1:28:45 PM

DESIGNED - BAB	REVISED -	
DRAWN - RLA	REVISED -	
CHECKED - MPB	REVISED -	
DATE - 8/26/2016	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

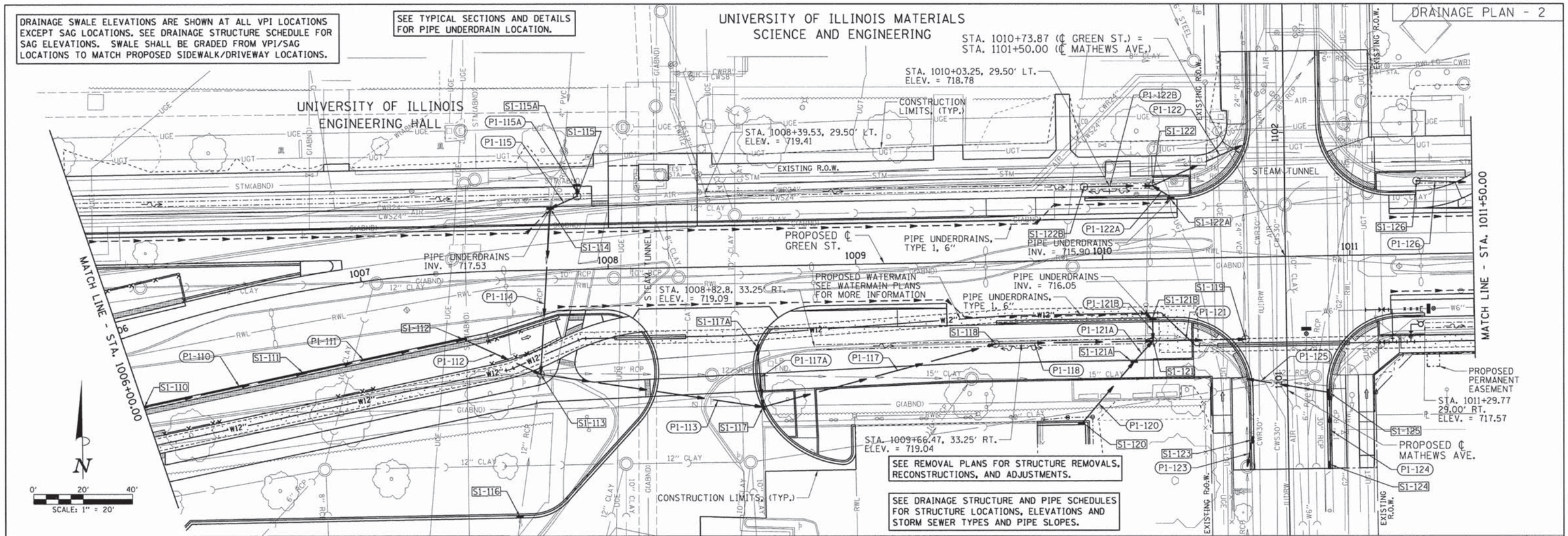
PROJECT 1 - GREEN STREET
DRAINAGE STRUCTURE & PIPE SCHEDULES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7126	15-00304-01-PV	CHAMPAIGN	236	47
MCORE PROJECT 1		CONTRACT NO. 91539		
JOB NO. C-95-305-16	ILLINOIS	FED. AID PROJECT TIG-5181(057)		

DRAINAGE SWALE ELEVATIONS ARE SHOWN AT ALL VPI LOCATIONS EXCEPT SAG LOCATIONS. SEE DRAINAGE STRUCTURE SCHEDULE FOR SAG ELEVATIONS. SWALE SHALL BE GRADED FROM VPI/SAG LOCATIONS TO MATCH PROPOSED SIDEWALK/DRIVEWAY LOCATIONS.

SEE TYPICAL SECTIONS AND DETAILS FOR PIPE UNDERDRAIN LOCATION.



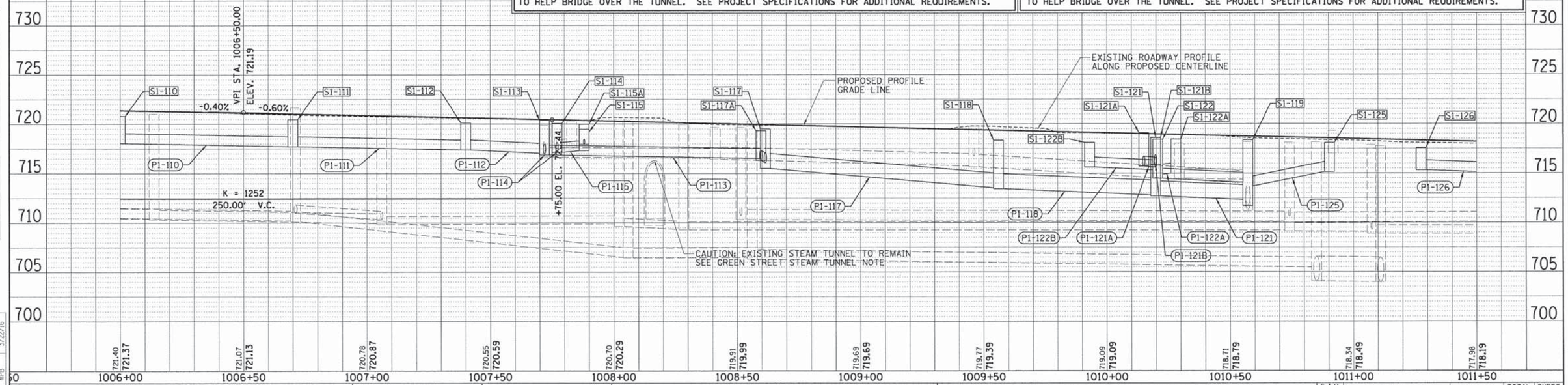
SEE REMOVAL PLANS FOR STRUCTURE REMOVALS, RECONSTRUCTIONS, AND ADJUSTMENTS.

SEE DRAINAGE STRUCTURE AND PIPE SCHEDULES FOR STRUCTURE LOCATIONS, ELEVATIONS AND STORM SEWER TYPES AND PIPE SLOPES.

PIPE UNDERDRAINS SHALL GENERALLY FOLLOW THE SLOPE OF THE ROADWAY AND BE PLACED AT TYPICAL DEPTHS PER THE DRAINAGE DETAILS.

GREEN STREET STEAM TUNNEL NOTE: STA. 1008+00 TO STA. 1008+30
EXISTING BRICK STEAM TUNNEL CROSSING UNDER GREEN STREET. EXTREME CAUTION SHALL BE EXERCISED BY ALL CONTRACTORS TO AVOID DISTURBING OR DAMAGING THE TUNNEL. ONCE THE EXISTING PAVEMENT IS REMOVED NO EQUIPMENT OR TRUCKS SHALL BE ALLOWED TO DRIVE OVER THE TUNNEL UNTIL THE FINAL PAVEMENT HAS BEEN CONSTRUCTED. FOR THE LIMITS NOTED PORTLAND CEMENT CONCRETE BASE COURSE 12" SHALL BE USED IN PLACE OF THE AGGREGATE BASE COURSE TYPE A, 12" TO HELP BRIDGE OVER THE TUNNEL. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

MATHEWS STREET STEAM TUNNEL NOTE: STA. 1101+80.50 TO STA. 1101+92.50
EXISTING WOOD LOG STEAM TUNNEL CROSSING UNDER MATHEWS STREET. EXTREME CAUTION SHALL BE EXERCISED BY ALL CONTRACTORS TO AVOID DISTURBING OR DAMAGING THE TUNNEL. ONCE THE EXISTING PAVEMENT IS REMOVED NO EQUIPMENT OR TRUCKS SHALL BE ALLOWED TO DRIVE OVER THE TUNNEL UNTIL THE FINAL PAVEMENT HAS BEEN CONSTRUCTED. FOR THE LIMITS NOTED PORTLAND CEMENT CONCRETE BASE COURSE 12" SHALL BE USED IN PLACE OF THE AGGREGATE BASE COURSE TYPE A, 12" TO HELP BRIDGE OVER THE TUNNEL. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



FILE NAME = Z:\Plans\sheets\Project1\P1-sht-GRNE-Drain02.dgn	DESIGNED - BAB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
PLOT DATE = 8/25/2016 1:29:52 PM	DRAWN - RLA	REVISED -	
	CHECKED - MPB	REVISED -	
	DATE - 8/26/2016	REVISED -	

PROJECT 1 - GREEN STREET
DRAINAGE PLAN

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. 1006+00.00 TO STA. 1011+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7126	15-00304-01-PV	CHAMPAIGN	236	48
MCORE PROJECT 1		CONTRACT NO. 91539		
JOB NO. C-95-305-16	ILLINOIS	FED. AID PROJECT TIG-5181(057)		

PLAN	BY	DATE
SURVEYED		
PLOTTED		
PROJ. CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK		
NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
PROJ. CHECKED		
B.M. NOTED		
STRUCTURE NOTAT'NS CHKD		
NOTE BOOK		
NO.		

LAYOUT	BAB	11/24/15
DRAWN	RLA	2/4/16
REVIEWED	MPB	3/22/16

© Copyright Hanson Professional Services Inc. 2016

HANSON
Hanson Professional Services Inc.

DRAINAGE STRUCTURE AND PIPE SCHEDULES - GREEN ST. DRAINAGE PLAN SHEET - 2

STORM SEWER STRUCTURE SCHEDULE

STRUCTURE NUMBER	STATION	OFFSET		STRUCTURE TYPE	SPECIAL FRAME & GRATE TYPE	RIM ELEVATION	INVERT ELEVATIONS N	S	E	W
S1-110	1006+00.00	29.20	RT	INLETS, TYPE B, WITH SPECIAL FRAME AND GRATE	NEENAH R-3471	720.80			718.05	718.05
S1-111	1006+70.00	32.79	RT	INLETS, TYPE B, WITH SPECIAL FRAME AND GRATE	NEENAH R-3471	720.47			717.72	717.72
S1-112	1007+40.00	27.13	RT	INLETS, TYPE B, WITH SPECIAL FRAME AND GRATE	NEENAH R-3471	720.14			717.39	717.39
S1-113	1007+71.90	42.18	RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID		720.08	716.97	EX. 717.26	716.87	717.05
S1-114	1007+77.00	24.75	LT	MANHOLES, TYPE A, 4'-DIAMETER, WITH SPECIAL FRAME AND GRATE	NEENAH R-3429-A	720.04	EX. 717.99	717.24	717.24	
S1-115	1007+88.00	29.50	LT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-4342	719.47	717.92			717.30
S1-115A	1007+88.00	34.00	LT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-3429-A	719.97		717.97		
S1-116	1007+62.48	99.71	RT	INLETS, TYPE G-1		721.17	EX. 718.3			
S1-117	1008+61.44	57.03	RT	INLETS, TYPE G-1		719.50	716.08		715.50	716.51
S1-117A	1008+59.63	32.93	RT	INLETS, TYPE G-1		719.32		716.32		
S1-118	1009+56.00	33.25	RT	MANHOLES, TYPE A, 4'-DIAMETER, WITH SPECIAL FRAME AND GRATE	NEENAH R-4342	718.35			713.44	713.54
S1-119	1010+57.16	33.25	RT	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID		718.37	EX. 711.71	EX. 711.71		712.33
S1-120	1009+90.24	66.18	RT	INLETS, TYPE G-1		719.33	716.83			
S1-121	1010+19.77	33.25	RT	MANHOLES, TYPE A, 4'-DIAMETER, WITH SPECIAL FRAME AND GRATE	NEENAH R-4342	718.59	715.78	715.60	712.70	712.80
S1-121A	1010+15.00	41.50	RT	INLETS, TYPE B, WITH SPECIAL FRAME AND GRATE	NEENAH R-3429-A	719.10	715.71	716.67		
S1-121B	1010+19.77	24.75	RT	INLETS, TYPE B, TYPE 11 FRAME AND GRATE		718.61		715.87		
S1-122	1010+20.64	29.50	LT	MANHOLES, TYPE A, 4'-DIAMETER, WITH SPECIAL FRAME AND GRATE	NEENAH R-4342	718.43		714.91	714.48	715.34
S1-122A	1010+28.00	24.75	LT	INLETS, TYPE B, TYPE 11 FRAME AND GRATE		718.44	715.00			
S1-122B	1009+93.00	29.50	LT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-4342	718.12			715.62	
S1-123	1100+76.00	14.83	LT	INLETS, TYPE B, TYPE 11 FRAME AND GRATE		718.12		715.12		
S1-124	1100+65.50	16.83	RT	INLETS, TYPE B, TYPE 11 FRAME AND GRATE		718.26	715.54			
S1-125	1100+94.67	16.83	RT	INLETS, TYPE B, TYPE 11 FRAME AND GRATE		718.10		715.25		715.15
S1-126	1011+27.50	29.50	LT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-4342	717.57			715.32	

STORM SEWER PIPE SCHEDULE

PIPE NUMBER	FROM STRUCTURE	U/S INVERT	TO STRUCTURE	D/S INVERT	CLASS / TYPE	DIAMETER	LENGTH	SLOPE	TRENCH BACKFILL
P1-110	S1-110	718.05	S1-111	717.72	STORM SEWERS, CLASS A, TYPE 1	12	66	0.50%	9
P1-111	S1-111	717.72	S1-112	717.39	STORM SEWERS, CLASS A, TYPE 1	12	66	0.50%	9
P1-112	S1-112	717.39	S1-113	717.05	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	12	34	1.00%	4
P1-113	S1-113	716.87	S1-117	716.51	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	18	91	0.40%	10
P1-114	S1-114	717.24	S1-113	716.97	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	12	67	0.40%	9
P1-115	S1-115	717.30	S1-114	717.24	STORM SEWERS, CLASS A, TYPE 1	12	12	0.50%	2
P1-115A	S1-115A	717.97	S1-115	717.92	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	6	5	1.00%	1
P1-117	S1-117	715.50	S1-118	713.54	STORM SEWERS, CLASS A, TYPE 1	18	98	2.00%	20
P1-117A	S1-117A	716.32	S1-117	716.08	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	12	24	1.00%	3
P1-118	S1-118	713.44	S1-121	712.80	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE	18	64	1.00%	20
P1-120	S1-120	716.83	S1-121A	716.67	STORM SEWERS, CLASS A, TYPE 1	12	32	0.50%	4
P1-121	S1-121	712.70	S1-119	712.33	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE	18	37	1.00%	14
P1-121A	S1-121A	715.71	S1-121	715.60	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	12	11	1.00%	1
P1-121B	S1-121B	715.87	S1-121	715.78	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	12	9	1.00%	1
P1-122	S1-122	714.48	EXISTING	714.08	STORM SEWERS, CLASS A, TYPE 1	12	40	1.00%	6
P1-122A	S1-122A	715.00	S1-122	714.91	STORM SEWERS, CLASS A, TYPE 1	12	9	1.00%	1
P1-122B	S1-122B	715.62	S1-122	715.34	STORM SEWERS, CLASS A, TYPE 1	12	28	1.00%	4
P1-123	S1-123	715.12	EXISTING	715.01	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	12	11	1.00%	1
P1-124	S1-124	715.54	S1-125	715.25	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	12	29	1.00%	4
P1-125	S1-125	715.15	EXISTING	713.69	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE	12	34	4.29%	5
P1-126	S1-126	715.32	S1-127	714.57	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	12	83	0.90%	11

NOTES:

1. PIPE LENGTHS SHOWN IN STORM SEWER PIPE SCHEDULE ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

2. FIELD VERIFY EXISTING STRUCTURE CONDITIONS, LOCATIONS, PIPE SIZES, AND ELEVATIONS PRIOR TO ORDERING PROPOSED STRUCTURES.

3. SPECIAL FRAME & GRATE TYPES SHALL BE AS SHOWN IN THE STORM SEWER STRUCTURE SCHEDULE OR APPROVED EQUIVALENTS.

4. SEE PLAN SHEETS FOR PIPE UNDERDRAIN INVERTS. PIPE UNDERDRAIN INVERTS ARE NOT SHOWN IN THE SCHEDULES.

5. INLET ELEVATION LOCATION:
   - INLETS, TY G-1 - SEE DETAIL
   - NEENAH R-3429-A - CENTER OF STRUCTURE
   - NEENAH R-3471 - MIDPOINT OF INLET ALONG THE EDGE OF PAVEMENT
   - NEENAH R-4342 - CENTER OF STRUCTURE
   - TY 3 - MIDPOINT OF INLET ALONG THE EDGE OF PAVEMENT
   - TY 11 - MIDPOINT OF INLET ALONG THE EDGE OF PAVEMENT

© Copyright Hanson Professional Services Inc. 2016

HANSON
Hanson Professional Services Inc.

LAYOUT	BAB	11/24/15
DRAWN	RLA	2/4/16
REVIEWED	MPB	3/22/16

FILE NAME = Z:\Plans\sheets\Project1\P1-sht-GRNE-Drain02-schedule.dgn
PLOT DATE = 8/25/2016 1:29:57 PM

DESIGNED - BAB	REVISED -	
DRAWN - RLA	REVISED -	
CHECKED - MPB	REVISED -	
DATE - 8/26/2016	REVISED -	

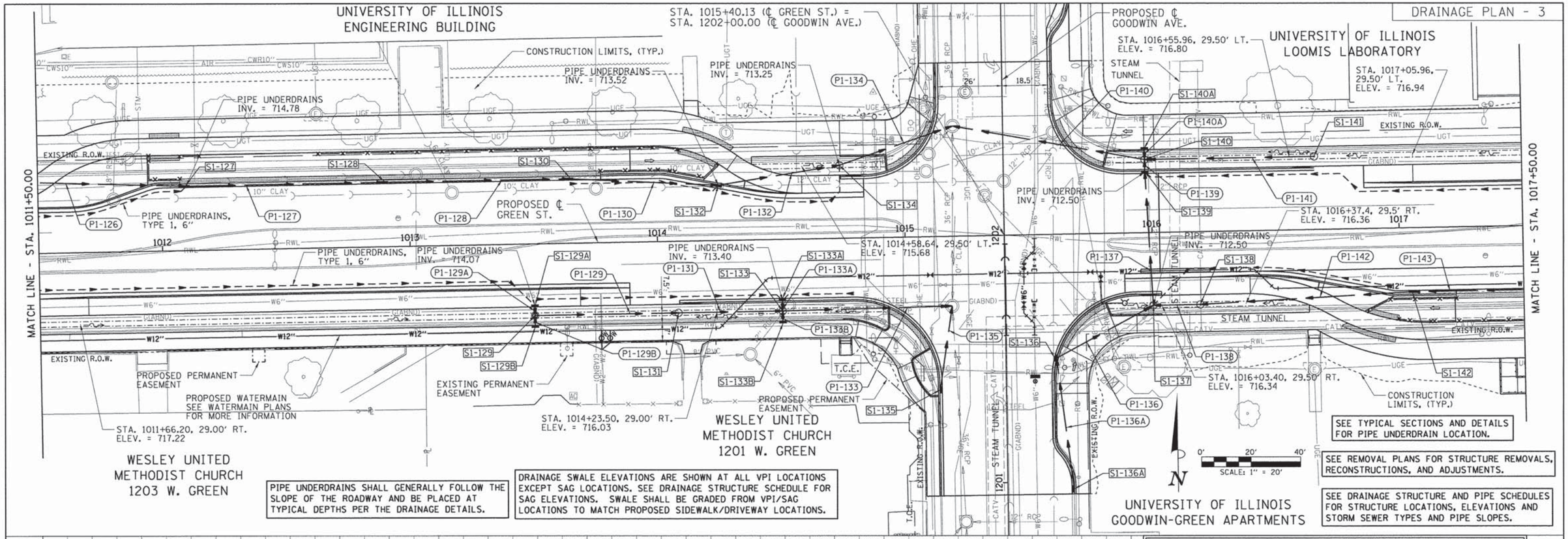
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT 1 - GREEN STREET
DRAINAGE STRUCTURE & PIPE SCHEDULES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7126	15-00304-01-PV	CHAMPAIGN	236	49
MCORE PROJECT 1		CONTRACT NO. 91539		
JOB NO. C-95-305-16	ILLINOIS	FED. AID PROJECT TIG-5181(057)		

DRAINAGE PLAN - 3



PIPE UNDERDRAINS SHALL GENERALLY FOLLOW THE SLOPE OF THE ROADWAY AND BE PLACED AT TYPICAL DEPTHS PER THE DRAINAGE DETAILS.

DRAINAGE SWALE ELEVATIONS ARE SHOWN AT ALL VPI LOCATIONS EXCEPT SAG LOCATIONS. SEE DRAINAGE STRUCTURE SCHEDULE FOR SAG ELEVATIONS. SWALE SHALL BE GRADED FROM VPI/SAG LOCATIONS TO MATCH PROPOSED SIDEWALK/DRIVEWAY LOCATIONS.

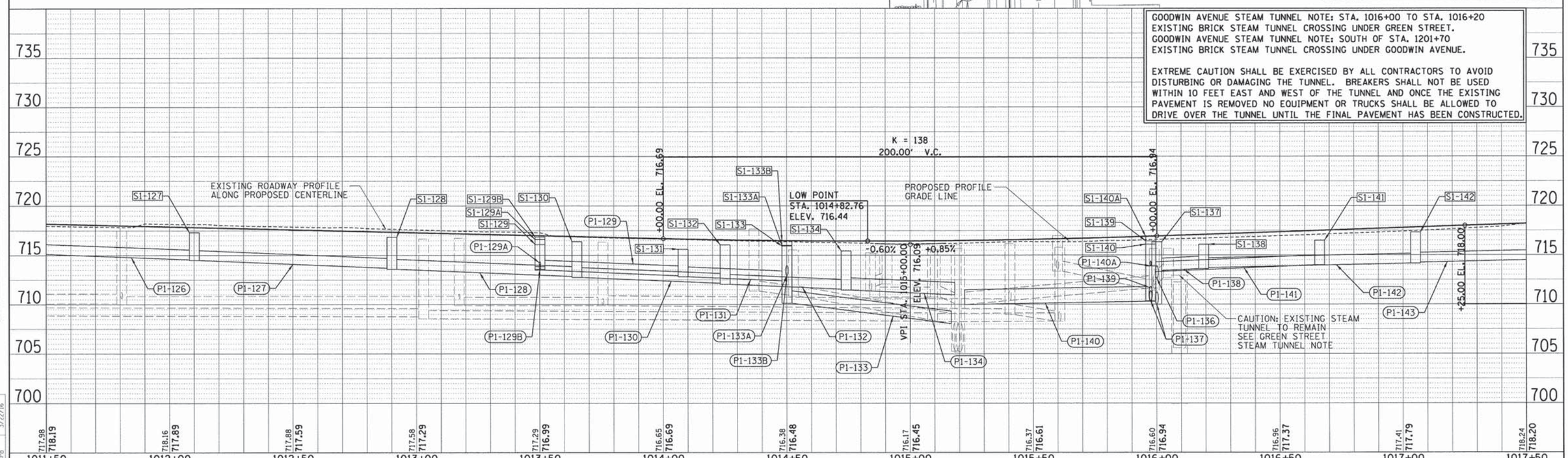
SEE TYPICAL SECTIONS AND DETAILS FOR PIPE UNDERDRAIN LOCATION.

SEE REMOVAL PLANS FOR STRUCTURE REMOVALS, RECONSTRUCTIONS, AND ADJUSTMENTS.

SEE DRAINAGE STRUCTURE AND PIPE SCHEDULES FOR STRUCTURE LOCATIONS, ELEVATIONS AND STORM SEWER TYPES AND PIPE SLOPES.

GOODWIN AVENUE STEAM TUNNEL NOTE: STA. 1016+00 TO STA. 1016+20
EXISTING BRICK STEAM TUNNEL CROSSING UNDER GREEN STREET.
GOODWIN AVENUE STEAM TUNNEL NOTE: SOUTH OF STA. 1201+70
EXISTING BRICK STEAM TUNNEL CROSSING UNDER GOODWIN AVENUE.

EXTREME CAUTION SHALL BE EXERCISED BY ALL CONTRACTORS TO AVOID DISTURBING OR DAMAGING THE TUNNEL. BREAKERS SHALL NOT BE USED WITHIN 10 FEET EAST AND WEST OF THE TUNNEL AND ONCE THE EXISTING PAVEMENT IS REMOVED NO EQUIPMENT OR TRUCKS SHALL BE ALLOWED TO DRIVE OVER THE TUNNEL UNTIL THE FINAL PAVEMENT HAS BEEN CONSTRUCTED.



FILE NAME = Z:\Plans\sheets\Project1\P1-sht-GRNE-Drain03.dgn	DESIGNED - BAB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
PLOT DATE = 8/25/2016 1:31:16 PM	DRAWN - RLA	REVISED -	
	CHECKED - MPB	REVISED -	
	DATE - 8/26/2016	REVISED -	

PROJECT 1 - GREEN STREET
DRAINAGE PLAN

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. 1011+50.00 TO STA. 1017+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7126	15-00304-01-PV	CHAMPAIGN	236	50
	MCORE PROJECT 1	CONTRACT NO. 91539		
	JOB NO. C-95-305-16	ILLINOIS	FED. AID PROJECT TIG-5181(057)	

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

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

LAYOUT	BAB	11/24/15
DRAWN	RLA	2/4/16
REVIEWED	MPB	3/22/16

© Copyright Hanson Professional Services Inc. 2016

HANSON
Hanson Professional Services Inc.

DRAINAGE STRUCTURE AND PIPE SCHEDULES - GREEN ST. DRAINAGE PLAN SHEET - 3

STORM SEWER STRUCTURE SCHEDULE

STRUCTURE NUMBER	STATION	OFFSET		STRUCTURE TYPE	SPECIAL FRAME & GRATE TYPE	RIM ELEVATION	INVERT ELEVATIONS N	S	E	W
S1-127	1012+10.00	26.00	LT	INLETS, TYPE B, WITH SPECIAL FRAME AND GRATE	NEENAH R-3471	717.32			714.50	714.57
S1-128	1012+90.00	26.00	LT	INLETS, TYPE B, WITH SPECIAL FRAME AND GRATE	NEENAH R-3471	716.84			713.60	713.70
S1-129	1013+50.00	29.00	RT	INLETS, TYPE B, WITH SPECIAL FRAME AND GRATE	NEENAH R-4342	716.10	713.57	713.81	713.50	
S1-129A	1013+50.00	25.00	RT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-3429-A	716.61		713.61		
S1-129B	1013+50.00	33.50	RT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-3429-A	716.86	713.86			
S1-130	1013+65.00	26.00	LT	INLETS, TYPE B, WITH SPECIAL FRAME AND GRATE	NEENAH R-3471	716.39			712.75	712.85
S1-131	1014+08.00	29.00	RT	INLETS, TYPE B, WITH SPECIAL FRAME AND GRATE	NEENAH R-4342	715.61			712.82	712.92
S1-132	1014+25.00	22.32	LT	INLETS, TYPE B, TYPE 3 FRAME AND GRATE		716.06			712.05	712.15
S1-133	1014+50.00	29.00	RT	MANHOLES, TYPE A, 4'-DIAMETER, WITH SPECIAL FRAME AND GRATE	NEENAH R-4342	715.94	712.86	713.4 EX. 710.95	710.12	712.40
S1-133A	1014+50.00	24.75	RT	INLETS, TYPE B, TYPE 11 FRAME AND GRATE		716.00		712.94		
S1-133B	1014+50.00	33.50	RT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-3429-A	716.45	713.45			
S1-134	1014+74.00	29.50	LT	INLETS, TYPE B, WITH SPECIAL FRAME AND GRATE	NEENAH R-4342	715.44			711.45	711.55
S1-135	1201+38.00	26.83	LT	INLETS, TYPE B, TYPE 11 FRAME AND GRATE		716.98	713.98			
S1-136	1201+50.00	20.46	RT	INLETS, TYPE B, WITH SPECIAL FRAME AND GRATE	NEENAH R-3471	717.06		714.02	713.92	
S1-136A	1200+97.00	26.83	RT	INLETS, TYPE B, TYPE 11 FRAME AND GRATE		718.08	715.08			
S1-137	1016+00.00	29.50	RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID		716.34	710.62	713.02	713.43	
S1-138	1016+19.00	29.50	RT	INLETS, TYPE B, WITH SPECIAL FRAME AND GRATE	NEENAH R-4342	716.38			713.72	713.62
S1-139	1015+97.50	24.75	LT	INLETS, TYPE B, TYPE 11 FRAME AND GRATE		716.44	710.35	710.35		
S1-140	1015+97.50	29.50	LT	MANHOLES, TYPE A, 4'-DIAMETER, WITH SPECIAL FRAME AND GRATE	NEENAH R-4342	716.10	713.84	710.30	713.31	710.30
S1-140A	1015+97.50	34.00	LT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-3429-A	716.89		713.89		
S1-141	1016+66.00	29.50	LT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-4342	716.49				713.99
S1-142	1017+05.00	26.00	RT	INLETS, TYPE B, TYPE 3 FRAME AND GRATE		717.32			714.25	714.15

STORM SEWER PIPE SCHEDULE

PIPE NUMBER	FROM STRUCTURE	U/S INVERT	TO STRUCTURE	D/S INVERT	CLASS / TYPE	DIAMETER	LENGTH	SLOPE	TRENCH BACKFILL
P1-126	S1-126	715.32	S1-127	714.57	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	12	83	0.90%	11
P1-127	S1-127	714.50	S1-128	713.70	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	12	80	1.00%	11
P1-128	S1-128	713.60	S1-130	712.85	STORM SEWERS, CLASS A, TYPE 1	12	75	1.00%	10
P1-129	S1-129	713.50	S1-131	712.92	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	12	58	1.00%	8
P1-129A	S1-129A	713.61	S1-129	713.57	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	6	4	1.00%	1
P1-129B	S1-129B	713.86	S1-129	713.81	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	6	5	1.00%	1
P1-130	S1-130	712.75	S1-132	712.15	STORM SEWERS, CLASS A, TYPE 1	12	60	1.00%	9
P1-131	S1-131	712.82	S1-133	712.40	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	12	42	1.00%	6
P1-132	S1-132	712.05	S1-134	711.55	STORM SEWERS, CLASS A, TYPE 1	12	50	1.00%	8
P1-133	S1-133	710.12	EXISTING	708.05	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE	15	69	3.00%	56
P1-133A	S1-133A	712.94	S1-133	712.86	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	12	4	2.00%	1
P1-133B	S1-133B	713.45	S1-133	713.40	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	6	5	1.00%	1
P1-134	S1-134	711.45	EXISTING	710.01	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	15	48	3.00%	12
P1-135	S1-135	713.98	EXISTING	713.47	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	12	34	1.50%	4
P1-136	S1-136	713.92	S1-137	713.02	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	12	45	2.00%	6
P1-136A	S1-136A	715.08	S1-136	714.02	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	12	53	2.00%	7
P1-137	S1-137	710.62	S1-139	710.35	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE	15	54	0.50%	20
P1-138	S1-138	713.62	S1-137	713.43	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	15	19	1.00%	2
P1-139	S1-139	710.35	S1-140	710.30	STORM SEWERS, CLASS A, TYPE 2	15	5	1.00%	2
P1-140	S1-140	710.30	EXISTING	709.98	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE	18	79	0.41%	30
P1-140A	S1-140A	713.89	S1-140	713.84	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	6	5	1.00%	1
P1-141	S1-141	713.99	S1-140	713.31	STORM SEWERS, CLASS A, TYPE 1	12	68	1.00%	9
P1-142	S1-142	714.15	S1-138	713.72	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	12	86	0.50%	11
P1-143	S1-143	714.50	S1-142	714.25	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	12	50	0.50%	7

NOTES:

1. PIPE LENGTHS SHOWN IN STORM SEWER PIPE SCHEDULE ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

2. FIELD VERIFY EXISTING STRUCTURE CONDITIONS, LOCATIONS, PIPE SIZES, AND ELEVATIONS PRIOR TO ORDERING PROPOSED STRUCTURES.

3. SPECIAL FRAME & GRATE TYPES SHALL BE AS SHOWN IN THE STORM SEWER STRUCTURE SCHEDULE OR APPROVED EQUIVALENTS.

4. SEE PLAN SHEETS FOR PIPE UNDERDRAIN INVERTS. PIPE UNDERDRAIN INVERTS ARE NOT SHOWN IN THE SCHEDULES.

5. INLET ELEVATION LOCATION:
   - INLETS, TY G-1 - SEE DETAIL
   - NEENAH R-3429-A - CENTER OF STRUCTURE
   - NEENAH R-3471 - MIDPOINT OF INLET ALONG THE EDGE OF PAVEMENT
   - NEENAH R-4342 - CENTER OF STRUCTURE
   - TY 3 - MIDPOINT OF INLET ALONG THE EDGE OF PAVEMENT
   - TY 11 - MIDPOINT OF INLET ALONG THE EDGE OF PAVEMENT

© Copyright Hanson Professional Services Inc. 2016

HANSON
Hanson Professional Services Inc.

LAYOUT	BAB	11/24/15
DRAWN	RLA	2/4/16
REVIEWED	MPB	3/22/16

FILE NAME = Z:\Plans\sheets\Project1\P1-sht-GRNE-Drain03-schedule.dgn
PLOT DATE = 8/25/2016 1:31:20 PM

DESIGNED -	BAB	REVISED -	
DRAWN -	RLA	REVISED -	
CHECKED -	MPB	REVISED -	
DATE -	8/26/2016	REVISED -	

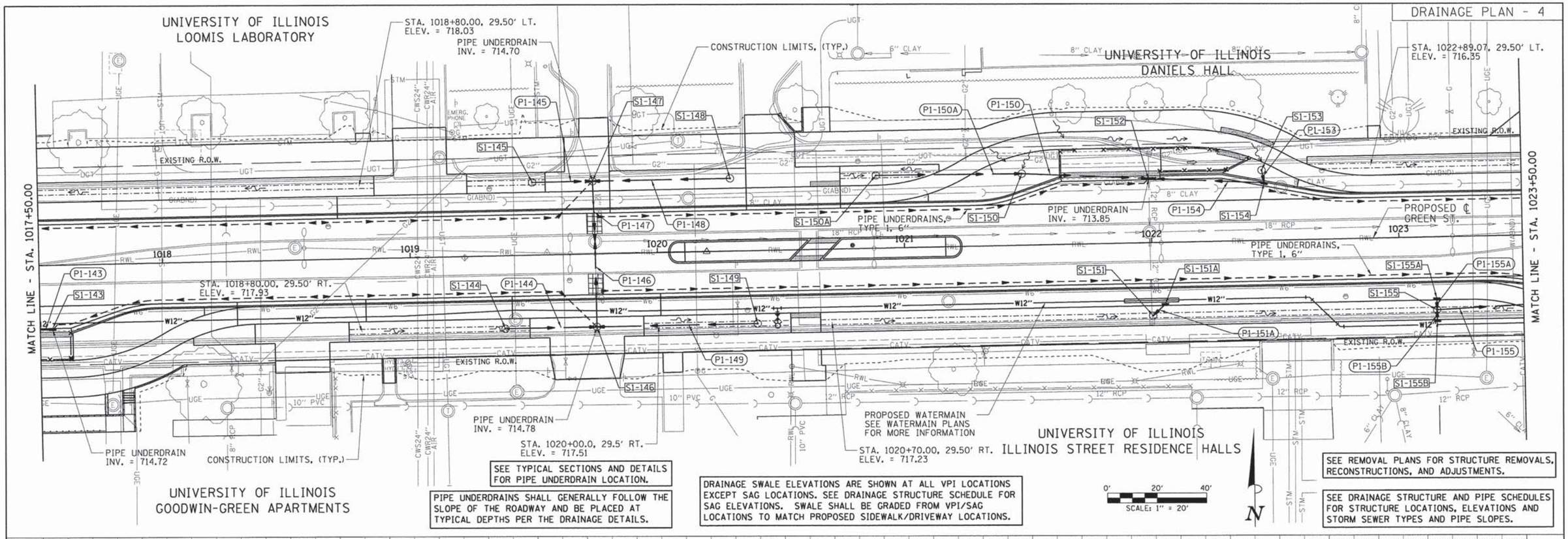
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT 1 - GREEN STREET
DRAINAGE STRUCTURE & PIPE SCHEDULES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7126	15-00304-01-PV	CHAMPAIGN	236	51
	MCORE PROJECT 1	CONTRACT NO. 91539		
JOB NO. C-95-305-16	ILLINOIS	FED. AID PROJECT TIG-51B1(057)		

DRAINAGE PLAN - 4



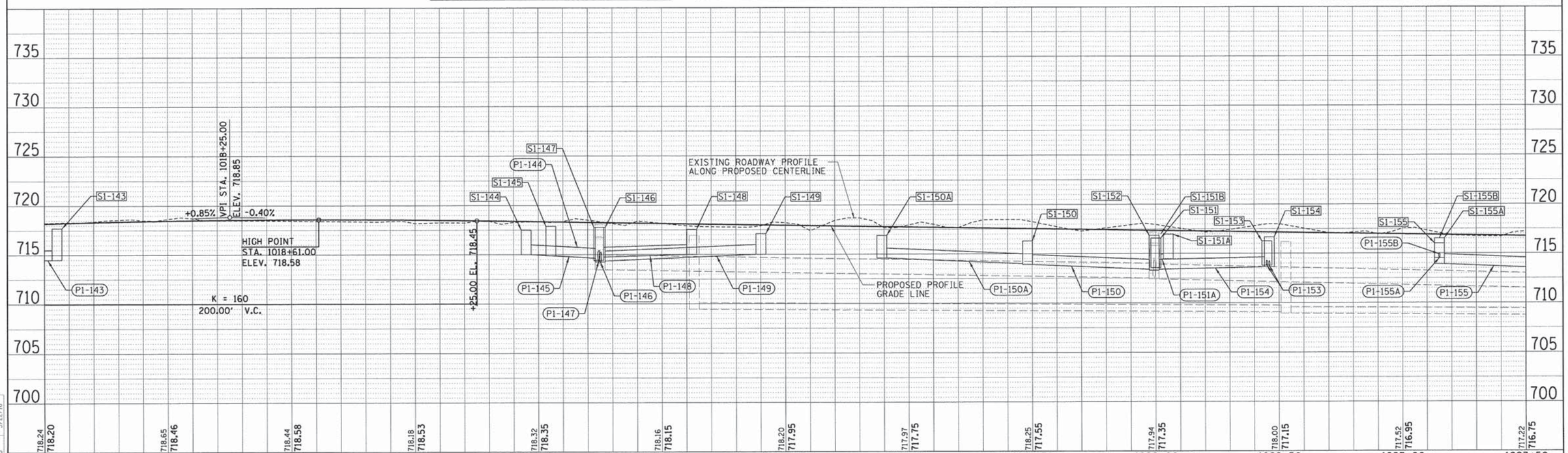
SEE TYPICAL SECTIONS AND DETAILS FOR PIPE UNDERDRAIN LOCATION.

PIPE UNDERDRAINS SHALL GENERALLY FOLLOW THE SLOPE OF THE ROADWAY AND BE PLACED AT TYPICAL DEPTHS PER THE DRAINAGE DETAILS.

DRAINAGE SWALE ELEVATIONS ARE SHOWN AT ALL VPI LOCATIONS EXCEPT SAG LOCATIONS. SEE DRAINAGE STRUCTURE SCHEDULE FOR SAG ELEVATIONS. SWALE SHALL BE GRADED FROM VPI/SAG LOCATIONS TO MATCH PROPOSED SIDEWALK/DRIVEWAY LOCATIONS.

SEE REMOVAL PLANS FOR STRUCTURE REMOVALS, RECONSTRUCTIONS, AND ADJUSTMENTS.

SEE DRAINAGE STRUCTURE AND PIPE SCHEDULES FOR STRUCTURE LOCATIONS, ELEVATIONS AND STORM SEWER TYPES AND PIPE SLOPES.



FILE NAME = Z:\Plans\sheets\Project1\P1-sht-GRNE-Drain04.dgn	DESIGNED - BAB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
PLOT DATE = 8/25/2016 1:32:41 PM	DRAWN - RLA	REVISED -	
	CHECKED - MPB	REVISED -	
	DATE - 8/26/2016	REVISED -	

PROJECT 1 - GREEN STREET
DRAINAGE PLAN

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. 1017+50.00 TO STA. 1023+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7126	15-00304-01-PV	CHAMPAIGN	236	52
MCORE PROJECT 1		CONTRACT NO. 91539		
JOB NO. C-95-305-16	ILLINOIS	FED. AID PROJECT TIG-5181(057)		

	BY	DATE
PLAN	SURVEYED	
	PLOTTED	
	PLANS PREPARED	
	R/W CHECKED	
NOTE BOOK	CADD FILE NAME	
NO.		

	BY	DATE
PROFILE	SURVEYED	
	PLOTTED	
	PLANS PREPARED	
	PROFILE CHECKED	
NOTE BOOK	BM. NOTED	
NO.	STRUCTURE NOTATNS CHKD	

LAYOUT	BAB	11/24/15
DRAWN	RLA	2/4/16
REVIEWED	MPB	3/22/16

© Copyright Hanson Professional Services Inc. 2016

HANSON
Hanson Professional Services Inc.

DRAINAGE STRUCTURE AND PIPE SCHEDULES - GREEN ST. DRAINAGE PLAN SHEET - 4

STORM SEWER STRUCTURE SCHEDULE

STRUCTURE NUMBER	STATION	OFFSET		STRUCTURE TYPE	SPECIAL FRAME & GRATE TYPE	RIM ELEVATION	INVERT ELEVATIONS			
							N	S	E	W
S1-143	1017+55.00	26.00	RT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-3471	717.72				714.50
S1-144	1019+45.00	29.50	RT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-4342	717.51			715.00	
S1-145	1019+55.00	29.50	LT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-4342	717.46			714.88	
S1-146	1019+75.00	29.50	RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID		717.78	714.25		714.35	714.63
S1-147	1019+74.41	29.50	LT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID		717.78		714.40	714.72	714.64
S1-148	1020+12.00	29.50	LT	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID		717.60				715.00
S1-149	1020+40.00	29.50	RT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-4342	717.10				715.00
S1-150	1021+48.00	29.00	LT	INLETS, TYPE B, WITH SPECIAL FRAME AND GRATE	NEENAH R-4342	716.30			713.91	714.01
S1-150A	1020+89.00	29.50	LT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-4342	716.90			714.60	
S1-151	1022+00.00	29.50	RT	INLETS, TYPE B, WITH SPECIAL FRAME AND GRATE	NEENAH R-4342	716.58	EX. 713.57		714.40	
S1-151A	1022+05.00	25.00	RT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-3429-A	716.95				714.45
S1-152	1021+99.31	26.00	LT	MANHOLES, TYPE A, 4'-DIAMETER, WITH SPECIAL FRAME AND GRATE	NEENAH R-3471	716.85		EX. 713.3	713.40	713.40
S1-153	1022+45.00	28.50	LT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-4342	716.25		713.78		
S1-154	1022+46.00	23.36	LT	INLETS, TYPE B, TYPE 3 FRAME AND GRATE		716.66	713.73			713.63
S1-155	1023+15.00	29.50	RT	INLETS, TYPE B, WITH SPECIAL FRAME AND GRATE	NEENAH R-4342	716.00	714.46	714.46	713.90	
S1-155A	1023+15.00	25.00	RT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-3429-A	716.51		714.51		
S1-155B	1023+15.00	34.00	RT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-3429-A	716.51	714.51			

STORM SEWER PIPE SCHEDULE

PIPE NUMBER	FROM STRUCTURE	U/S INVERT	TO STRUCTURE	D/S INVERT	CLASS / TYPE	DIAMETER	LENGTH	SLOPE	TRENCH BACKFILL
P1-143	S1-143	714.50	S1-142	714.25	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	12	50	0.50%	7
P1-144	S1-144	715.00	S1-146	714.63	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	12	37	1.00%	5
P1-145	S1-145	714.88	S1-147	714.64	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	12	24	1.00%	3
P1-146	S1-146	714.25	EXISTING	713.90	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	12	35	1.00%	5
P1-147	S1-147	714.40	EXISTING	714.13	STORM SEWERS, CLASS A, TYPE 1	12	25	1.08%	3
P1-148	S1-148	715.00	S1-147	714.72	STORM SEWERS, CLASS A, TYPE 1	12	56	0.50%	7
P1-149	S1-149	715.00	S1-146	714.35	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	12	65	1.00%	9
P1-150	S1-150	713.91	S1-152	713.40	STORM SEWERS, CLASS A, TYPE 1	12	51	1.00%	7
P1-150A	S1-150A	714.60	S1-150	714.01	STORM SEWERS, CLASS A, TYPE 1	12	59	1.00%	8
P1-151A	S1-151A	714.45	S1-151	714.40	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	6	5	1.00%	1
P1-153	S1-153	713.78	S1-154	713.73	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	6	5	1.00%	1
P1-154	S1-154	713.63	S1-152	713.40	STORM SEWERS, CLASS A, TYPE 1	12	46	0.50%	6
P1-155	S1-155	713.90	S1-156	713.05	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	12	85	1.00%	11
P1-155A	S1-155A	714.51	S1-155	714.46	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	6	5	1.00%	1
P1-155B	S1-155B	714.51	S1-155	714.46	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	6	5	1.00%	1

NOTES:

1. PIPE LENGTHS SHOWN IN STORM SEWER PIPE SCHEDULE ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

2. FIELD VERIFY EXISTING STRUCTURE CONDITIONS, LOCATIONS, PIPE SIZES, AND ELEVATIONS PRIOR TO ORDERING PROPOSED STRUCTURES.

3. SPECIAL FRAME & GRATE TYPES SHALL BE AS SHOWN IN THE STORM SEWER STRUCTURE SCHEDULE OR APPROVED EQUIVALENTS.

4. SEE PLAN SHEETS FOR PIPE UNDERDRAIN INVERTS. PIPE UNDERDRAIN INVERTS ARE NOT SHOWN IN THE SCHEDULES.

5. INLET ELEVATION LOCATION:
   - INLETS, TY G-1 - SEE DETAIL
   - NEENAH R-3429-A - CENTER OF STRUCTURE
   - NEENAH R-3471 - MIDPOINT OF INLET ALONG THE EDGE OF PAVEMENT
   - NEENAH R-4342 - CENTER OF STRUCTURE
   - TY 3 - MIDPOINT OF INLET ALONG THE EDGE OF PAVEMENT
   - TY 11 - MIDPOINT OF INLET ALONG THE EDGE OF PAVEMENT

©Copyright Hanson Professional Services Inc. 2016

HANSON
Hanson Professional Services Inc.

LAYOUT	BAB	11/24/15
DRAWN	RLA	2/4/16
REVIEWED	MPB	3/22/16

FILE NAME = Z:\Plans\sheets\Project1\P1-sht-GRNE-Drain04-schedule.dgn
PLOT DATE = 8/25/2016 1:32:46 PM

DESIGNED - BAB	REVISED -	
DRAWN - RLA	REVISED -	
CHECKED - MPB	REVISED -	
DATE - 8/26/2016	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT 1 - GREEN STREET
DRAINAGE STRUCTURE & PIPE SCHEDULES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7126	15-00304-01-PV	CHAMPAIGN	236	53
	MCORE PROJECT 1	CONTRACT NO. 91539		

JOB NO. C-95-305-16 | ILLINOIS | FED. AID PROJECT TIG-5181(057)

DRAINAGE PLAN - 5

UNIVERSITY OF ILLINOIS ASTRONOMY BUILDING

STA. 1024+87.04 (℄ GREEN ST.) = STA. 1250+00.00 (℄ GREGORY ST.)

SEE TYPICAL SECTIONS AND DETAILS FOR PIPE UNDERDRAIN LOCATION.

HENDRICK HOUSE
904 W. GREEN

DRAINAGE SWALE ELEVATIONS ARE SHOWN AT ALL VPI LOCATIONS EXCEPT SAG LOCATIONS. SEE DRAINAGE STRUCTURE SCHEDULE FOR SAG ELEVATIONS. SWALE SHALL BE GRADED FROM VPI/SAG LOCATIONS TO MATCH PROPOSED SIDEWALK/DRIVEWAY LOCATIONS.

STA. 1028+35.41 (℄ GREEN ST.) = STA. 1302+00.00 (℄ LINCOLN AVE.)

MOBIL
810 W. GREEN

PROPOSED ℄ GREGORY ST.

PROPOSED ℄ LINCOLN AVE.

PROPOSED R.O.W.

PROPOSED PERMANENT EASEMENT

CONSTRUCTION LIMITS, (TYP.)

EXISTING PERMANENT EASEMENT

EXISTING R.O.W.

T.C.E.

PIPE UNDERDRAINS, TYPE 1, 6"

PIPE UNDERDRAINS INV. = 712.98

PIPE UNDERDRAINS INV. = 713.24

PIPE UNDERDRAINS INV. = 713.05

PIPE UNDERDRAINS INV. = 712.96

PROPOSED WATERMAIN - SEE WATERMAIN PLANS FOR MORE INFORMATION

STA. 1025+93.46, 29.50' LT. ELEV. = 716.71

STA. 1026+76.18, 29.50' LT. ELEV. = 716.49

STA. 1027+54.40, 29.50' LT. ELEV. = 717.03

STA. 1026+98.94, 29.50' RT. ELEV. = 716.82

STA. 1027+08.94, 29.50' RT. ELEV. = 717.10

STA. 1027+68.53, 29.50' RT. ELEV. = 717.55

PROPOSED ℄ GREEN ST.

UNIVERSITY OF ILLINOIS

UNIVERSITY OF ILLINOIS ILLINOIS STREET RESIDENCE HALLS

SEE REMOVAL PLANS FOR STRUCTURE REMOVALS, RECONSTRUCTIONS, AND ADJUSTMENTS.

SEE DRAINAGE STRUCTURE AND PIPE SCHEDULES FOR STRUCTURE LOCATIONS, ELEVATIONS AND STORM SEWER TYPES AND PIPE SLOPES.

PIPE UNDERDRAINS SHALL GENERALLY FOLLOW THE SLOPE OF THE ROADWAY AND BE PLACED AT TYPICAL DEPTHS PER THE DRAINAGE DETAILS.

MATCH LINE - STA. 1023+50.00

MATCH LINE - STA. 1029+50.00

SCALE: 1" = 20'

K = 158
150.00' V.C.

+90.00 EL. 716.59

+40.00 EL. 716.71

LOW POINT
STA. 1024+53.16
ELEV. 716.47

-0.40%

+0.55%

VPI STA. 1024+55.00
ELEV. 716.29

PROPOSED PROFILE GRADE LINE

EXISTING ROADWAY PROFILE ALONG PROPOSED CENTERLINE

+45.00 EL. 717.83

VPI STA. 1028+20.00
ELEV. 718.25

+0.55%

-0.40%

HIGH POINT
STA. 1028+31.84
ELEV. 718.07

K = 158
150.00' V.C.

+85.00 EL. 717.95

Station	Elevation
1023+50	717.22 / 716.75
1024+00	716.18 / 716.56
1024+50	715.95 / 716.47
1025+00	716.02 / 716.54
1025+50	716.82 / 716.76
1026+00	716.78 / 717.04
1026+50	716.93 / 717.31
1027+00	717.19 / 717.59
1027+50	717.43 / 717.86
1028+00	717.71 / 718.04
1028+50	717.66 / 718.06
1029+00	717.57 / 717.93
1029+50	717.40 / 717.73

PLAN	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
R.O.W. CHECKED		
CADD FILE NAME		
NOTE BOOK		
NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
STRUCTURE NOTATIONS CH'KD		
NOTE BOOK		
NO.		

	BAB	11/24/15
LAYOUT	RLA	2/4/16
DRAWN	MPB	3/22/16
REVIEWED		

© Copyright Hanson Professional Services Inc. 2016

HANSON
Hanson Professional Services Inc.

FILE NAME = Z:\Plans\sheets\Project1\P1-sht-GRNE-Drain05.dgn

PLOT DATE = 8/25/2016 1:34:07 PM

DESIGNED - BAB	REVISED -		
DRAWN - RLA	REVISED -		
CHECKED - MPB	REVISED -		
DATE - 8/26/2016	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT 1 - GREEN STREET
DRAINAGE PLAN

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. 1023+50.00 TO STA. 1029+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7126	15-00304-01-PV	CHAMPAIGN	236	54
	MCORE PROJECT 1	CONTRACT NO. 91539		
	JOB NO. C-95-305-16	ILLINOIS	FED. AID PROJECT TIG-5181(057)	

DRAINAGE STRUCTURE AND PIPE SCHEDULES - GREEN ST. DRAINAGE PLAN SHEET - 5

STORM SEWER STRUCTURE SCHEDULE

STRUCTURE NUMBER	STATION	OFFSET		STRUCTURE TYPE	SPECIAL FRAME & GRATE TYPE	RIM ELEVATION	INVERT ELEVATIONS			
							N	S	E	W
S1-156	1024+00.00	26.00	RT	INLETS, TYPE B, TYPE 3 FRAME AND GRATE		716.05			712.95	713.05
S1-157	1024+56.00	25.95	RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 3 FRAME AND GRATE		715.85	712.42		712.72	712.67
S1-158	1024+35.00	29.50	LT	INLETS, TYPE B, WITH SPECIAL FRAME AND GRATE	NEENAH R-4342	715.47	713.42	712.93	712.85	
S1-158A	1024+32.00	25.00	LT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-3429-A	716.00	712.98			
S1-158B	1024+35.00	34.00	LT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-3429-A	715.97		713.47		
S1-159	1025+30.00	29.50	RT	INLETS, TYPE B, WITH SPECIAL FRAME AND GRATE	NEENAH R-4342	715.76	714.22	714.22		713.46
S1-159A	1025+30.00	25.00	RT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-3429-A	716.27		714.27		
S1-159B	1025+30.00	34.00	RT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-3429-A	716.27	714.27			
S1-160	1025+39.00	29.50	LT	INLETS, TYPE B, WITH SPECIAL FRAME AND GRATE	NEENAH R-4342	716.17	714.38	713.22	713.30	713.20
S1-160A	1025+39.00	24.75	LT	INLETS, TYPE B, TYPE 11 FRAME AND GRATE		716.24	713.24			
S1-160B	1025+40.00	34.00	LT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-3429-A	716.68		714.43		
S1-160C	1026+04.00	29.50	LT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-4342	716.05				713.95
S1-161	1025+18.40	33.92	LT	INLETS, TYPE B, TYPE 1 FRAME, CLOSED LID		715.88			713.08	EX 713.08
S1-162	1026+40.00	29.50	RT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-4342	716.53				714.00
S1-163	1027+40.00	28.75	LT	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	NEENAH R-4342	716.85		714.00		
S1-164	1301+30.00	26.83	LT	INLETS, TYPE B, TYPE 11 FRAME AND GRATE		717.90			714.90	
S1-165	1301+30.00	26.83	RT	INLETS, TYPE B, TYPE 11 FRAME AND GRATE		717.85	714.85			
S1-166	1029+15.00	22.67	RT	INLETS, TYPE B, TYPE 11 FRAME AND GRATE		717.39			711.81	711.71
S1-168A	1029+15.00	42.00	LT	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID		717.32			714.32	

STORM SEWER PIPE SCHEDULE

PIPE NUMBER	FROM STRUCTURE	U/S INVERT	TO STRUCTURE	D/S INVERT	CLASS / TYPE	DIAMETER	LENGTH	SLOPE	TRENCH BACKFILL
P1-155	S1-155	713.90	S1-156	713.05	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	12	85	1.00%	11
P1-156	S1-156	712.95	S1-157	712.67	STORM SEWERS, CLASS A, TYPE 1	12	56	0.50%	7
P1-157	S1-157	712.42	EXISTING	712.10	STORM SEWERS, CLASS A, TYPE 1	15	32	1.00%	5
P1-158	S1-158	712.85	EXISTING	712.43	STORM SEWERS, CLASS A, TYPE 1	12	28	1.50%	4
P1-158A	S1-158A	712.98	S1-158	712.93	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	6	5	1.00%	1
P1-158B	S1-158B	713.47	S1-158	713.42	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	6	5	1.00%	1
P1-159	S1-159	713.46	S1-157	712.72	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	12	74	1.00%	10
P1-159A	S1-159A	714.27	S1-159	714.22	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	6	5	1.00%	1
P1-159B	S1-159B	714.27	S1-159	714.22	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	6	5	1.00%	1
P1-160	S1-160	713.20	S1-161	713.08	STORM SEWERS, CLASS A, TYPE 1	12	21	0.57%	3
P1-160A	S1-160A	713.24	S1-160	713.22	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	6	5	0.40%	1
P1-160B	S1-160B	714.43	S1-160	714.38	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	6	5	1.00%	1
P1-160C	S1-160C	713.95	S1-160	713.30	STORM SEWERS, CLASS A, TYPE 1	12	65	1.00%	9
P1-162	S1-162	714.00	EXISTING	713.89	STORM SEWERS, CLASS A, TYPE 1	12	11	1.00%	1
P1-163	S1-163	714.00	EXISTING	713.26	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	12	74	1.00%	10
P1-164	S1-164	714.90	EXISTING	714.42	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	12	48	1.00%	6
P1-165	S1-165	714.85	EXISTING	714.00	STORM SEWERS, CLASS A, TYPE 1	12	34	2.50%	4
P1-166	S1-166	711.71	EXISTING	711.00	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE	12	71	1.00%	47
P1-167	S1-167	712.23	S1-166	711.81	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE	12	70	0.60%	21
P1-168A	S1-168A	714.32	S1-168	713.50	STORM SEWERS, CLASS A, TYPE 1	12	82	1.00%	11

NOTES:

1. PIPE LENGTHS SHOWN IN STORM SEWER PIPE SCHEDULE ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

2. FIELD VERIFY EXISTING STRUCTURE CONDITIONS, LOCATIONS, PIPE SIZES, AND ELEVATIONS PRIOR TO ORDERING PROPOSED STRUCTURES.

3. SPECIAL FRAME & GRATE TYPES SHALL BE AS SHOWN IN THE STORM SEWER STRUCTURE SCHEDULE OR APPROVED EQUIVALENTS.

4. SEE PLAN SHEETS FOR PIPE UNDERDRAIN INVERTS. PIPE UNDERDRAIN INVERTS ARE NOT SHOWN IN THE SCHEDULES.

5. INLET ELEVATION LOCATION:
   - INLETS, TY G-1 - SEE DETAIL
   - NEENAH R-3429-A - CENTER OF STRUCTURE
   - NEENAH R-3471 - MIDPOINT OF INLET ALONG THE EDGE OF PAVEMENT
   - NEENAH R-4342 - CENTER OF STRUCTURE
   - TY 3 - MIDPOINT OF INLET ALONG THE EDGE OF PAVEMENT
   - TY 11 - MIDPOINT OF INLET ALONG THE EDGE OF PAVEMENT

©Copyright Hanson Professional Services Inc. 2016
HANSON
Hanson Professional Services Inc.

LAYOUT	BAB	11/24/15
DRAWN	RLA	2/4/16
REVIEWED	MPB	3/22/16

FILE NAME = Z:\Plans\sheets\Project1\P1-sht-GRNE-Drain05-schedule.dgn
PLOT DATE = 8/25/2016 1:34:12 PM

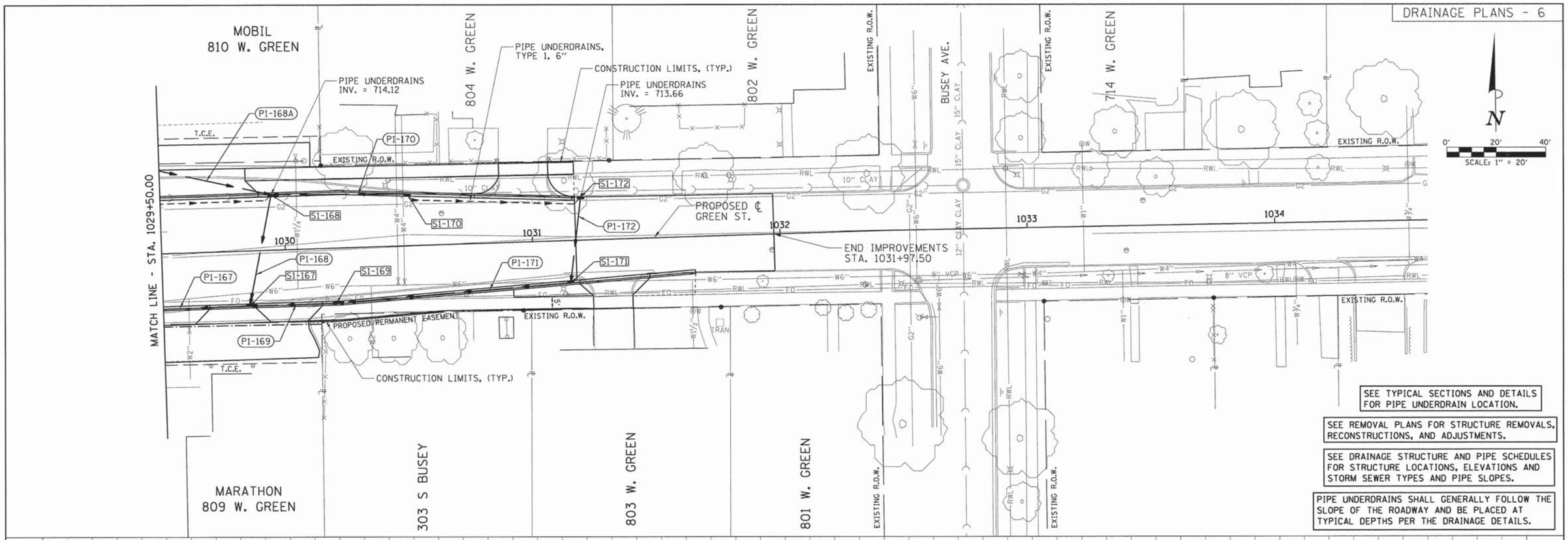
DESIGNED - BAB	REVISED -	
DRAWN - RLA	REVISED -	
CHECKED - MPB	REVISED -	
DATE - 8/26/2016	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT 1 - GREEN STREET
DRAINAGE STRUCTURE & PIPE SCHEDULES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7126	15-00304-01-PV	CHAMPAIGN	236	55
	MCORE PROJECT 1	CONTRACT NO. 91539		
JOB NO. C-95-305-16	ILLINOIS	FED. AID PROJECT TIG-5181(057)		

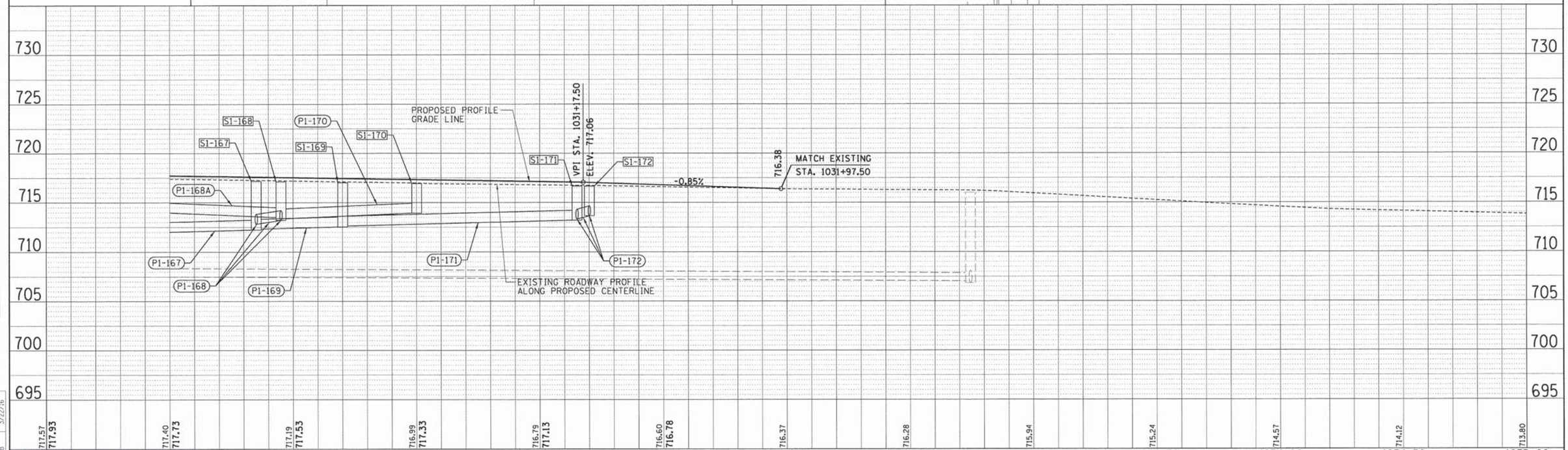


SEE TYPICAL SECTIONS AND DETAILS FOR PIPE UNDERDRAIN LOCATION.

SEE REMOVAL PLANS FOR STRUCTURE REMOVALS, RECONSTRUCTIONS, AND ADJUSTMENTS.

SEE DRAINAGE STRUCTURE AND PIPE SCHEDULES FOR STRUCTURE LOCATIONS, ELEVATIONS AND STORM SEWER TYPES AND PIPE SLOPES.

PIPE UNDERDRAINS SHALL GENERALLY FOLLOW THE SLOPE OF THE ROADWAY AND BE PLACED AT TYPICAL DEPTHS PER THE DRAINAGE DETAILS.



PLAN	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
R.O.W. BKS CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
R.O.W. BKS CHECKED		
STRUCTURE NOTATNS CH'KD		
NOTE BOOK NO.		

LAYOUT	BAB	11/24/15
DRAWN	RLA	2/4/16
REVIEWED	MPB	3/22/16

© Copyright Hanson Professional Services Inc. 2010

HANSON
Hanson Professional Services Inc.

FILE NAME = Z:\Plans\sheets\Project1\P1-sht-GRNE-Drain06.dgn

PLOT DATE = 8/25/2016 1:35:25 PM

DESIGNED - BAB	REVISED -		
DRAWN - RLA	REVISED -		
CHECKED - MPB	REVISED -		
DATE - 8/26/2016	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT 1 - GREEN STREET
DRAINAGE PLAN

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. 1029+50.00 TO STA. 1033+55.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7126	15-00304-01-PV	CHAMPAIGN	236	56
	MCORE PROJECT 1	CONTRACT NO. 91539		
JOB NO. C-95-305-16	ILLINOIS	FED. AID PROJECT TIG-5181(057)		

DRAINAGE STRUCTURE AND PIPE SCHEDULES - GREEN ST. DRAINAGE PLAN - 6

STORM SEWER STRUCTURE SCHEDULE

STRUCTURE NUMBER	STATION	OFFSET		STRUCTURE TYPE	SPECIAL FRAME & GRATE TYPE	RIM ELEVATION	INVERT ELEVATIONS			
							N	S	E	W
S1-167	1029+85.00	22.33	RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE		717.16	712.82		712.33	712.23
S1-168	1029+95.00	22.33	LT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE		717.12		713.28	713.38	713.50
S1-169	1030+20.00	22.33	RT	INLETS, TYPE B, TYPE 11 FRAME AND GRATE		717.02			712.64	712.54
S1-170	1030+50.00	20.77	LT	INLETS, TYPE B, TYPE 11 FRAME AND GRATE		716.93				713.93
S1-171	1031+15.00	17.10	RT	INLETS, TYPE B, TYPE 11 FRAME AND GRATE		716.67	713.31			713.21
S1-172	1031+20.00	17.19	LT	INLETS, TYPE B, TYPE 11 FRAME AND GRATE		716.66		713.66		

STORM SEWER PIPE SCHEDULE

PIPE NUMBER	FROM STRUCTURE	U/S INVERT	TO STRUCTURE	D/S INVERT	CLASS / TYPE	DIAMETER	LENGTH	SLOPE	TRENCH BACKFILL
P1-167	S1-167	712.23	S1-166	711.81	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE	12	70	0.60%	21
P1-168	S1-168	713.28	S1-167	712.82	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE	12	46	1.00%	8
P1-168A	S1-168A	714.32	S1-168	713.50	STORM SEWERS, CLASS A, TYPE 1	12	82	1.00%	11
P1-169	S1-169	712.54	S1-167	712.33	STORM SEWERS, TYPE 2, WATER MAIN QUALITY PIPE	12	35	0.60%	8
P1-170	S1-170	713.93	S1-168	713.38	STORM SEWERS, CLASS A, TYPE 1	12	55	1.00%	7
P1-171	S1-171	713.21	S1-169	712.64	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	12	95	0.60%	14
P1-172	S1-172	713.66	S1-171	713.31	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE	12	35	1.00%	5

NOTES:

1. PIPE LENGTHS SHOWN IN STORM SEWER PIPE SCHEDULE ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

2. FIELD VERIFY EXISTING STRUCTURE CONDITIONS, LOCATIONS, PIPE SIZES, AND ELEVATIONS PRIOR TO ORDERING PROPOSED STRUCTURES.

3. SPECIAL FRAME & GRATE TYPES SHALL BE AS SHOWN IN THE STORM SEWER STRUCTURE SCHEDULE OR APPROVED EQUIVALENTS.

4. SEE PLAN SHEETS FOR PIPE UNDERDRAIN INVERTS. PIPE UNDERDRAIN INVERTS ARE NOT SHOWN IN THE SCHEDULES.

5. INLET ELEVATION LOCATION:
   - INLETS, TY G-1 - SEE DETAIL
   - NEENAH R-3429-A - CENTER OF STRUCTURE
   - NEENAH R-3471 - MIDPOINT OF INLET ALONG THE EDGE OF PAVEMENT
   - NEENAH R-4342 - CENTER OF STRUCTURE
   - TY 3 - MIDPOINT OF INLET ALONG THE EDGE OF PAVEMENT
   - TY 11 - MIDPOINT OF INLET ALONG THE EDGE OF PAVEMENT

©Copyright Hanson Professional Services Inc. 2016
HANSON Professional Services Inc.

LAYOUT	BAB	11/24/15
DRAWN	RLA	2/4/16
REVIEWED	MPB	3/22/16

FILE NAME = Z:\Plans\sheets\Project1\P1-sht-GRNE-Drain06-schedule.dgn
PLOT DATE = 8/25/2016 1:35:29 PM

DESIGNED - BAB	REVISED -	
DRAWN - RLA	REVISED -	
CHECKED - MPB	REVISED -	
DATE - 8/26/2016	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT 1 - GREEN STREET
DRAINAGE STRUCTURE & PIPE SCHEDULES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7126	15-00304-01-PV	CHAMPAIGN	236	57
MCORE PROJECT 1		CONTRACT NO. 91539		
JOB NO. C-95-305-16	ILLINOIS	FED. AID PROJECT TIG-5181(057)		