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Submitted by:	CADD File Name:

SANITARY SEWER RELOCATION COVER SHEET

Sheet
Reference
Number:
**SS
G-001**

SHEET NO. TITLE

SS_G-001	SANITARY SEWER RELOCATION COVER SHEET
SS_G-002	GENERAL NOTES AND LEGEND
SS_G-003	SURVEY CONTROL AND OVERALL SITE PLAN
SS_C-100	EXISTING STRUCTURE SURVEY DATA
SS_CD101	DEMOLITION PLAN
SS_CD102	DEMOLITION PLAN
SS_CD103	DEMOLITION PLAN
SS_CU201	SANITARY SEWER RELOCATION LINE 1, PLAN AND PROFILE, STA 0+00 TO 10+50
SS_CU201	SANITARY SEWER RELOCATION LINE 1, PLAN AND PROFILE, STA 10+50 TO STA 22+25
SS_CU203	SANITARY SEWER RELOCATION LINE 1 STA 22+25 TO 26+71, LINE 2 & LINE 3, PLAN AND PROFILE
SS_CU501	SANITARY SEWER RELOCATION DETAILS

PROFESSIONAL ENGINEER SEAL

SANITARY SEWER RELOCATION

FOR WSD USE:

COVER SHEET

		MAP NO. NA		RANGE NA		TWP NA		SEC NA	
		MAP NO. NA		RANGE NA		TWP NA		SEC NA	
DRAWN BY		CHECKED BY		MAP NO. S146		RANGE NA		TWP NA	
CONTRACTOR						DATE COMPLETED			
CONTRACT NO.		CONTRACT DATE		DATE		WORK ORDER NO.		DRAWING NO.	
								1702.01	
PROJECT NO.									

AS BUILT

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS, BONDS, INSURANCE, ETC. AND PAYING ALL FEES. THE COST OF CONTRACTORS BONDS AND INSURANCE AS REQUIRED BY THE CITY OF KANSAS CITY, MISSOURI SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. ALL ASSOCIATED WORK NOT SPECIFICALLY COVERED IN THE PLANS AND SPECIFICATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST VERSION OF THE KANSAS CITY METROPOLITAN CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION SPECIFICATIONS.
3. ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE WATER SERVICES DEPARTMENT OF KANSAS CITY, MISSOURI PRIOR TO ANY PAYMENTS.
4. LOCATIONS OF ALL RIGHT-OF-WAY, EASEMENT AND PROPERTY LINE INFORMATION SHOWN ON THE PLANS IS BASED ON THE INFORMATION PROVIDED BY THE CORPS OF ENGINEERS.
5. THE UTILITIES SHOWN ON THESE PLANS ARE NOT IMPLIED NOR INTENDED TO BE THE COMPLETE INVENTORY OF UTILITIES IN THIS AREA. THE LOCATIONS AND/OR ELEVATIONS OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON PREVIOUS PHASE DESIGNS, RECORDS OF THE VARIOUS UTILITY COMPANIES, AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE.
6. THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF THE SENATE BILL NO. 583, 78TH GENERAL ASSEMBLY OF THE STATE OF MISSOURI. THE BILL REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION IN PUBLIC RIGHT-OF-WAY, DO SO AFTER GIVING NOTICE TO, AND OBTAINING INFORMATION FROM, THE UTILITY COMPANIES. STATE LAW REQUIRES 48 HOURS ADVANCED NOTICE. MISSOURI ONE CALL SYSTEM, INC. SHALL BE CONTACTED AT 1-800-344-7483. THE CONTRACTOR IS TO FIELD VERIFY ALL UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION.
7. THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH UTILITY OWNERS FOR RELOCATIONS 8 WEEKS (OR WITH SUFFICIENT ADVANCED NOTICE AS REQUIRED BY UTILITY OWNERS, WHICHEVER IS GREATER) PRIOR TO CONSTRUCTION.
8. REMOVE TREES, SHRUBS, BUSHES, AND DEBRIS PILES AS REQUIRED TO CONSTRUCT THE PROJECT. NO SEPARATE PAYMENT SHALL BE MADE FOR REMOVAL OF BUSHES AND TREES. ALL COSTS THEREOF SHALL BE SUBSIDIARY TO CLEARING AND GRUBBING. SEE SPECIFICATION SECTION 01015 FOR ADDITIONAL INFORMATION REGARDING TREE REMOVAL AND PROTECTION.
9. ALL NON-PAVED AREAS DISTURBED BY CONSTRUCTION SHALL RECEIVE SITE RESTORATION AS DIRECTED IN THE CONTRACT SPECIFICATIONS.
10. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TRAFFIC CONTROL MEASURES NECESSARY TO ENSURE THAT THE GENERAL PUBLIC IS PROTECTED AT ALL TIMES. TRAFFIC CONTROL SHALL MANUALLY OR USING TRAFFIC CONTROL DEVICES (MUTCD - LATEST EDITION). CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLAN, IF NECESSARY, TO COR FOR APPROVAL PRIOR TO START OF CONSTRUCTION.
11. TRAFFIC SIGNAGE SHALL BE REMOVED AND REPLACED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND AS CLOSE TO THE ORIGINAL LOCATION AS POSSIBLE.
12. THE CONTRACTOR SHALL PROVIDE TEMPORARY SURFACING IN STREET CUT AREAS UNTIL CONCRETE OR ASPHALT PAVEMENT CAN BE REPLACED.
13. MANHOLES SHALL BE POSITIONED SO THAT ACCESS IS NOT LOCATED UNDER FENCES.
14. SUBGRADE SOIL FOR ALL CONCRETE STRUCTURES, REGARDLESS OF TYPE OR LOCATION, SHALL BE FIRM, DENSE AND THOROUGHLY COMPACTED AND CONSOLIDATED; SHALL BE FREE OF MUCH AND MUD; AND SHALL BE SUFFICIENTLY STABLE TO REMAIN FIRM AND INTACT UNDER THE FEET OF WORKMEN OR UNDER MACHINERY ENGAGED IN SUBGRADE SURFACING, LAYING REINFORCING STEEL AND DEPOSITING CONCRETE THEREON. IN ALL CASES WHERE SUBSOIL IS MUCKY OR WORKS INTO MUD OR MUCH DURING SUCH OPERATIONS, A SEAL COURSE OF CONCRETE SHALL BE PLACED BELOW SUBGRADE TO PROVIDE A FIRM BASE FOR WORKING AND PLACING THE FLOOR SLAB.
15. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL DOWNSTREAM EROSION AND SILTATION DURING ALL PHASES OF CONSTRUCTION.
16. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION STAKING.
17. SEE STANDARD DETAIL DRAWINGS IN THE TECHNICAL SPECIFICATIONS.
18. VERIFICATION OF SERVICE CONNECTIONS: FOR EACH SERVICE CONNECTION ENCOUNTERED, THE CONTRACTOR SHALL VERIFY THE TYPE (SANITARY OR STORM) AND STATUS (LIVE OR INACTIVE) BY DYE TESTING, TELEVISION INSPECTION, OR A COMBINATION THEREOF.
19. CONTRACTOR SHALL VERIFY THE EXISTENCE OF SERVICE CONNECTIONS FOR PIPES THAT ARE TO BE ABANDONED-IN-PLACE, REMOVED OR RELOCATED AS INDICATED ON THE PLANS OR AS NECESSARY. LIVE SERVICE CONNECTIONS SHALL BE RECONNECTED TO THE APPROPRIATE SEWER SYSTEM AS SPECIFIED HEREIN.
20. THE CONTRACTOR SHALL REPAIR ANY ITEMS DAMAGED DURING CONSTRUCTION THAT ARE NOT NOTED TO BE REMOVED TO PRECONSTRUCTION CONDITIONS.
21. SANITARY SEWER SERVICE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION PER SPECIFICATIONS.

1. EXAMINE THE LINE TO BE ABANDONED BY CCTV AND DYE TESTING OR A COMBINATION OF THE TWO TO DETERMINE IF THERE ARE ANY EXISTING SERVICE CONNECTIONS. IF THERE ARE, CONTACT WATER SERVICES INVESTIGATIONS AND INSPECTIONS AT (816) 513-4819 FOR VERIFICATION AND FURTHER INSTRUCTIONS REGARDING ABANDONMENT.

2. REMOVAL OF THE SEWER IS RECOMMENDED AS THE BEST OPTION FOR ABANDONMENT. AS AN ALTERNATIVE, THE SEWER SHALL BE PUMPED FULL WITH NON-SHRINK GROUT.

3. AT THE WALL UPSTREAM MANHOLE THAT IS TO REMAIN IN SERVICE, THE SEWER SHALL BE PLUGGED WITH CONCRETE FOR A MINIMUM DISTANCE OF ONE (1) FOOT.

4. FOR MANHOLES AND CURB INLETS TO BE ABANDONED, THE CONTRACTOR SHALL REMOVE MANHOLE AND CURB INLET TOPS AND CASTING(S) AND DELIVER THEM TO 1800 PROSPECT AVE. SERVICE CENTER STORE ROOM. PLEASE CALL 513-4842 FOR AN APPOINTMENT PRIOR TO DELIVERY. THE MANHOLE AND CURB TOPS SHALL BE REMOVED A MINIMUM OF TWO FEET BELOW FINAL GRADE AND FILLED WITH NON-SHRINK GROUT.

5. PRIOR TO PERFORMING ANY WORK RELATED TO ABANDONING A SEWER, AN ABANDONMENT PERMIT MUST BE OBTAINED FROM THE CITY PLANNING AND DEVELOPMENT DEPARTMENT, LAND DEVELOPMENT DIVISION (CPD-LDD). SUBMIT TWO (2) SETS OF SEWER ABANDONMENT PLANS SHOWING THE LIMITS OF THE LINE TO BE ABANDONED. METHODS TO BE USED AND ALL RELEVANT DOCUMENTS, ALONG WITH APPLICATION IB159, LAND DEVELOPMENT DIVISION APPLICATION FORM TO CPD-LDD, 5TH FLOOR, CITY HALL FOR PERMITTING. SEE IB159 ADDITIONAL LAND DEVELOPMENT APPLICATION INFORMATION PART A FOR ADDITIONAL HELPFUL INFORMATION. FORMS CAN BE DOWNLOADED FROM CITY PLANNING AND DEVELOPMENT SITE ON KCMO.GOV.

6. PLANS MUST REFERENCE:

- A. KCMO SEWER ATLAS SHEET NUMBER(S)
- B. ASSIGNED MANHOLE NUMBER(S)
- C. GENERAL LOCATION(S)
- D. ALL APPLICABLE GENERAL NOTES

CONTACT CPD-LDD, 5TH FLOOR, CITY HALL, OR CALL 513-1500 (OPTION 2) FOR ASSISTANCE WITH SEWER ATLAS MAPS OR TO OBTAIN A COPY OF SEWER RECORDS OR (OPTION 3) FOR DEMOLITION.

7. SUBMIT EASEMENT RELEASE REQUEST LETTER WITH ALL RELEVANT DOCUMENTS TO THE ASSIGNED LAND DEVELOPMENT DIVISION PLAN REVIEWER FOR YOUR PROJECT IF YOU HAVE BEEN ASSIGNED ONE. IF YOU DON'T HAVE AN ASSIGNED PLAN REVIEWER FOR YOUR PROJECT, CALL THE ENGINEER OF THE WEEK AT (816) 513-1500 (OPTION 1). MORE INFORMATION ABOUT EASEMENT RELEASE POLICY CAN BE FOUND ON THE CITY'S WEBSITE AT "<http://kcmo.gov/wp-content/uploads/sites/9/2014/02/EasementsInstructionsandInformationDocumentRV6.pdf>".

HYDRAULIC CALCULATIONS - LINE 1			
MANHOLE SEGMENT	PIPE SIZE (IN)	SLOPE (%)	VELOCITY (FPS)
1-11 TO 1-10	18	1.23	4.8
1-10 TO 1-9	18	0.20	2.5
1-9 TO 1-8	18	0.20	2.5
1-8 TO 1-7	18	0.20	2.5
1-7 TO 1-6	18	0.20	2.5
1-6 TO 1-5	18	0.20	2.5
1-5 TO 1-4	18	0.20	2.5
1-4 TO 1-3	18	0.20	2.5
1-3 TO 1-2	18	0.20	2.5
1-2 TO 1-1	18	0.20	2.5

HYDRAULIC CALCULATIONS - LINE 3			
MANHOLE SEGMENT	PIPE SIZE (IN)	SLOPE (%)	VELOCITY (FPS)
3-1 TO 1-9	8	4.45	7.9

	EXISTING	PROPOSED
CONSTRUCTION LIMITS		
WATER	---	W
STORM	---	SD
GAS	---	G
SANITARY SEWER	---	SS
OVERHEAD ELEC	---	OE
UNDERGROUND ELEC	---	BE
COMMUNICATIONS	---	C
FENCE	---	X
TREE LINE		
MAJOR CONTOURS	---	---
MINOR CONTOURS		
ELEC. MANHOLE	EM	EM
FIRE HYDRANT	FH	FH
TRANSFORMER	T	T
GAS VALVE	GV	GV
GAS METER	GM	GM
POWER POLE		
POWER POLE W/TRANSFORMER		
WATER METER	WM	WM
POWERPOLE W/ST. LIGHT		
STORM DRAIN	SD	SD
STREET LIGHT		
STRADDLE BLOCK		
GUY WIRE		
BOLLARD		
GATE		
SANITARY SEWER MANHOLE	SS	SS
TELEPHONE MANHOLE	T	T
TREE		
WATER VALVE	WV	WV
CURB INLET (CI)	CI	CI
DROP INLET (DI)	DI	DI
BORE HOLE LOCATION		C-5
TEST PIT LOCATION		TP-5
1 VERTICAL ON 4 HORIZONTAL		1 ON 4
DITCH/CHANNEL FLOW PATH		
DYNAMIC COMPACTION LIMITS		

ON 4	1 VERTICAL ON 4 HORIZONTAL
APPROX	APPROXIMATELY
BF	BASEMENT FLOOR
BM	BENCHMARK
BOL	BOLLARD
BOT.	BOTTOM
BTM	BOTTOM
CIP	CAST IRON PIPE
CMP	CORRUGATED METAL PIPE
CP	CONTROL POINT
CO	CLEANOUT
COG	CHORD GRASS
CONC	CONCRETE
COR	CONTRACTING OFFICER REPRESENTATIVE
DIP	DUCTILE IRON PIPE
E	ELECTRIC
E	EAST
EL	ELEVATION
ELEV	ELEVATION
EM	ELECTRIC METER
FF	FINISH FLOOR
FL	FLOW LINE
FM	FORCE MAIN
FO	FIBER OPTICS
GLCL	GEOSYNTHETIC CLAY LINER
GI	GRATE INLET
GV	GATE VALVE
HDWL.	HEADWALL
JB	JUNCTION BOX
KCKS	KANSAS CITY, KANSAS
LP	LIGHT POLE
LPG	LIQUID PETROLEUM GAS
M	MONOLITH
MH	MANHOLE
MW	MONITORING WELL
N	NORTH
NPW	NON-POTABLE WATER
NTS	NOT TO SCALE
OHE	OVERHEAD ELECTRIC
P	POWER POLE
PROJ.	PROJECT
PVC	POLYVINYL CHLORIDE
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
S	SOUTH
SD	STORM DRAIN
SPG	SHORT PRAIRIE GRASS
SSMH	SANITARY SEWER MANHOLE
SS	SANITARY SEWER
TBM	TEMPORARY BENCH MARK
TP	TOP OF PIPE
TEPD	TELEPHONE PEDESTAL
TPG	TALL PRAIRIE GRASS
TW	TOP OF WALL
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
UGS	UNDERGROUND ELECTRICAL SERVICE
UGT	UNDERGROUND TELEPHONE
UNKN	UNKNOWN
UP	UTILITY POLE
UTY	UTILITY
VCP	VITRIFIED CLAY PIPE
W	WATER
W	WEST
WMH	WATER MANHOLE
WSD	WATER SERVICES DEPARTMENT

		APPROVED FOR CONSTRUCTION	
		AS BUILT SYM	
		DESCRIPTION	DATE
			APPL.

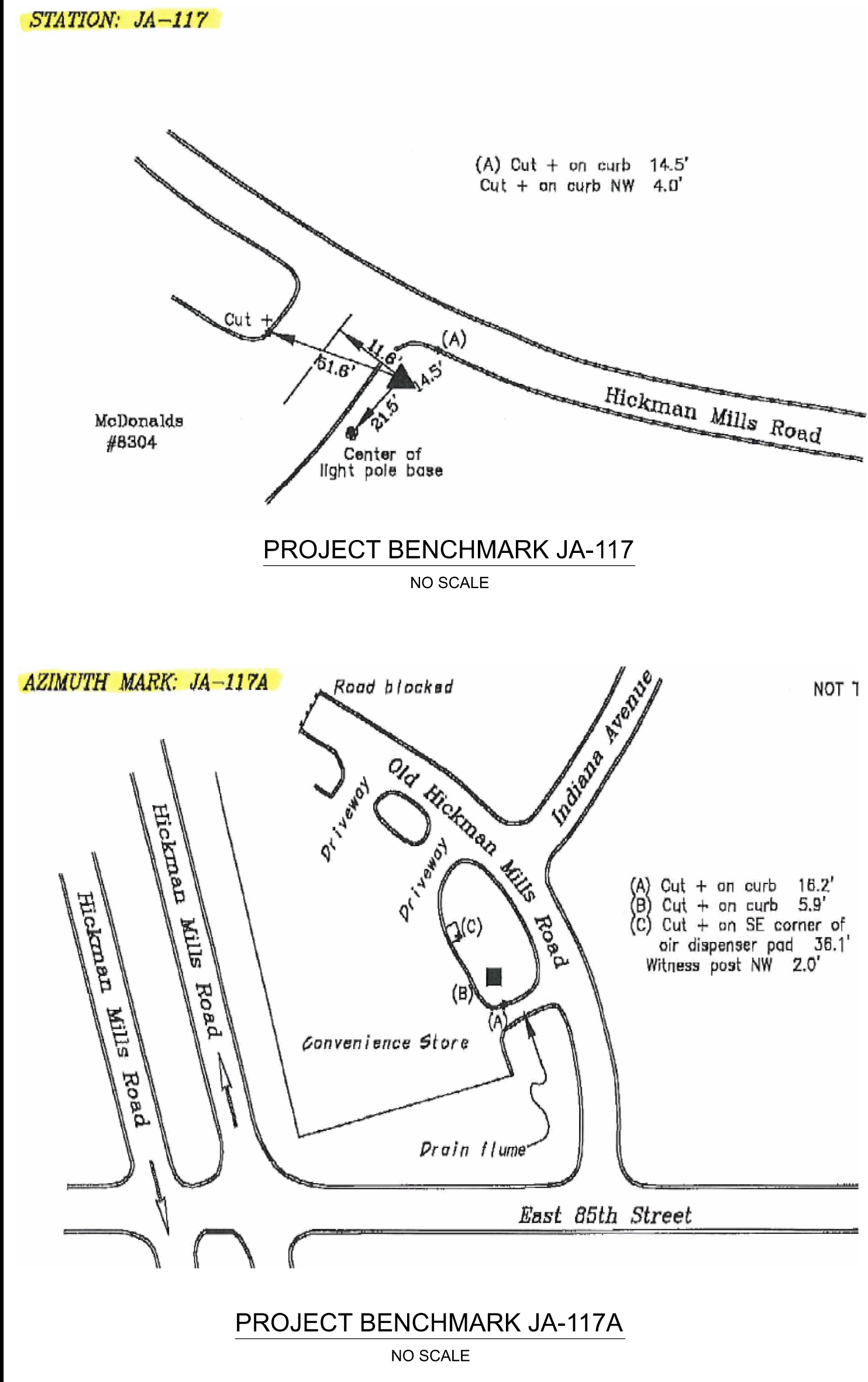
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Number:
**SS
G-002**

PROFESSIONAL ENGINEER SEAL	SANITARY SEWER RELOCATION
FOR WSD USE:	GENERAL NOTES AND LEGEND

		MAP NO. NA	RANGE NA	TWP NA	SEC NA
		MAP NO. NA	RANGE NA	TWP NA	SEC NA
DRAWN BY	CHECKED BY	MAP NO. S146	RANGE NA	TWP NA	SEC NA
CONTRACTOR			DATE COMPLETED		
CONTRACT NO.	CONTRACT DATE	DATE	WORK ORDER NO.	DRAWING NO.	
				1702.01	
PROJECT NO.					

AS BUILT



PROJECT BENCHMARKS

POINT LIST

ID	NORTHING (US SURVEY FOOT)	EASTING (US SURVEY FOOT)	ELEVATION (US SURVEY FOOT)	DESCRIPTION
JA-117A	1022022.540	2774883.912	788.739	CONCRETE MONUMENT
JA-117	1022840.504	2773140.306	840.700	CONCRETE MONUMENT

Coordinate System	
Name:	US State Plane 1983
Datum:	NAD 1983 (Conus)
Zone:	Missouri West 2403
Geoid:	GEOID12A (Conus)
Vertical datum:	NAVD 88



PROPOSED MANHOLES		
NAME	NORTHING	EASTING
MH #1-1	1,018,691.82	2,772,065.60
MH #1-2	1,018,680.38	2,772,145.66
MH #1-3	1,018,784.91	2,772,473.27
MH #1-4	1,019,060.46	2,772,763.22
MH #1-5	1,019,223.04	2,772,900.45
MH #1-6	1,019,385.63	2,773,037.68
MH #1-7	1,019,661.71	2,773,272.88
MH #1-8	1,019,924.38	2,773,467.09
MH #1-9	1,019,955.47	2,773,469.26
MH #1-10	1,020,263.00	2,773,712.54
MH #1-11	1,019,955.47	2,773,469.26
MH #2-1	1,019,425.81	2,773,027.85
MH #3-1	1,019,993.77	2,773,325.58

APPROVED FOR CONSTRUCTION				DATE	APPR.
				AS BUILT	SW

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PROFESSIONAL ENGINEER SEAL

SANITARY SEWER RELOCATION

FOR WSD USE:

SURVEY CONTROL

		MAP NO.		RANGE	TWP	SEC
		NA		NA	NA	NA
		MAP NO.		RANGE	TWP	SEC
		NA		NA	NA	NA
DRAWN BY	CHECKED BY	MAP NO.		RANGE	TWP	SEC
		S146		NA	NA	NA
CONTRACTOR				DATE COMPLETED		
CONTRACT NO.	CONTRACT DATE	DATE	WORK ORDER NO.	DRAWING NO.		
				1702.01		
PROJECT NO.						

AS BUILT

SANITARY SEWER RELOCATION
SURVEY CONTROL
AND OVERALL SITE PLAN

Sheet
Reference
Number:
**SS
G-003**

EXISTING SANITARY SEWER (SS) STRUCTURE SURVEY DATA

MH #S146-051 N: 1,018,524.62
E: 2,772,464.82
15" VCP
(1998 SURVEY)
APPROX. DEPTH
26.61' (1987
AS-BUILT)

MH #S146-052 N: 1,018,820.05
E: 2,772,655.39
15" VCP
APPROX. LOCATION
(1998 SURVEY)
APPROX. DEPTH
27.27' (1987
AS-BUILT)

MH #S146-053 N: 1,019,029.41
 E: 2,772,957.52
 TOP EL. 793.19
 15" VCP N. EL. 765.20
 15" VCP SW. EL. 765.49
 (1998 SURVEY)

MH #S146-054 N: 1,019,425.81
E: 2,773,027.85
TOP EL. 792.22
15" VCP E. EL. 767.67
8" PVC W. EL. 780.52
8" STEEL W. EL. 768.42 (DROP)
15" VCP S. EL. 767.67
(2012 SURVEY)

MH #S146-055 N: 1,019,374.19
E: 2,773,235.13
TOP EL. 793.94
15" VCP N. EL. 767.25
15" VCP W. EL. 767.09
(1998 SURVEY)

MH #S146-056 N: 1,019,665.85
E: 2,773,306.41
TOP EL. 792.83
15" VCP N. EL. 767.63
15" VCP S. EL. 767.58
(1998 SURVEY)

MH #S146-057 N: 1,019,992.10
E: 2,773,324.90
TOP EL. 786.52
8" PVC W. EL. 777.87
8" STEEL W. EL. 771.40 (DROP)
15" VCP E. EL. 770.27
15" VCP S. EL. 769.92
(2012 SURVEY)

MH #S146-058 N: 1,019,985.25
E: 2,773,472.81
TOP EL. 785.74
15" VCP N. EL. 769.74
15" VCP W. EL. 769.64
(1998 SURVEY)

MH #S146-059 N: 1,020,310.00
E: 2,773,489.72
TOP EL. 780.69 (NO LID)
15" VCP E. EL. 772.29
15" VCP S. EL. 772.19
(2012 SURVEY)

MH #S146-060 N: 1,020,286.12
E: 2,773,884.31
TOP EL. 781.58
15" VCP N. EL. 773.81
15" VCP W. EL. 773.65
(2012 SURVEY)

MH #S146-080 N: 1,018,509.92
E: 2,772,463.89
TOP EL. 773.12
18" CIP N. FL EL. 763.82
FL INV. TO TOP OF WATER
EL. 749.12 (1998 SURVEY)

MH #S147-279 N: 1,018,654.36
E: 2,772,042.54
TOP EL. 784.12 INVERT
OF 96" INTERCEPTOR
FL EL. 740.32
(2012 SURVEY)

SS MH #16 N: 1,018,524.62
E: 2,772,464.82
15" VCP
APPROX. LOCATION
(1998 SURVEY)
APPROX. DEPTH
26.61' (1987 AS-BUILT)

SS MH #19 N: 1,018,749.28
 E: 2,772,126.86
 TOP EL. 780.93
 16" NE. EL. 762.68
 16" SW. EL. 761.98
 (2012 SURVEY)

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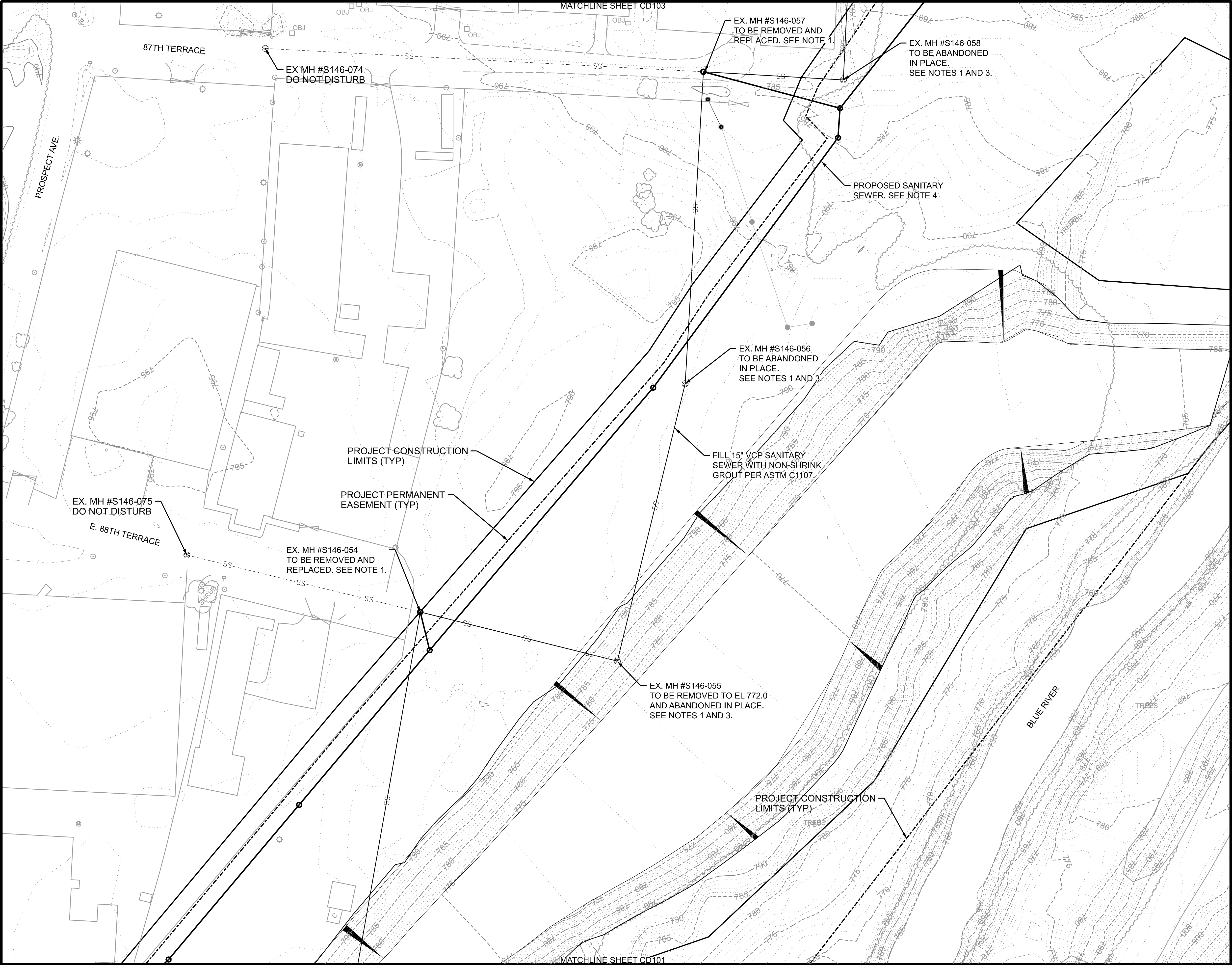
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SANITARY SEWER RELOCATION EXISTING STRUCTURE SURVEY DATA

Sheet
Reference
Number:

SS
C-100

PROFESSIONAL ENGINEER SEAL 	SANITARY SEWER RELOCATION 																														
FOR WSD USE: 	EXISTING STRUCTURE DATA <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td></td> <td>MAP NO. NA</td> <td>RANGE NA</td> <td>TWP NA</td> <td>SEC NA</td> </tr> <tr> <td></td> <td>MAP NO. NA</td> <td>RANGE NA</td> <td>TWP NA</td> <td>SEC NA</td> </tr> <tr> <td>DRAWN BY</td> <td>CHECKED BY</td> <td>MAP NO. S146</td> <td>RANGE NA</td> <td>TWP NA</td> </tr> <tr> <td colspan="3"></td> <td colspan="2">DATE COMPLETED</td> </tr> <tr> <td>CONTRACT NO.</td> <td>CONTRACT DATE</td> <td>DATE</td> <td>WORK ORDER NO.</td> <td>DRAWING NO. 1702.01</td> </tr> <tr> <td colspan="5">PROJECT NO.</td> </tr> </table>		MAP NO. NA	RANGE NA	TWP NA	SEC NA		MAP NO. NA	RANGE NA	TWP NA	SEC NA	DRAWN BY	CHECKED BY	MAP NO. S146	RANGE NA	TWP NA				DATE COMPLETED		CONTRACT NO.	CONTRACT DATE	DATE	WORK ORDER NO.	DRAWING NO. 1702.01	PROJECT NO.				
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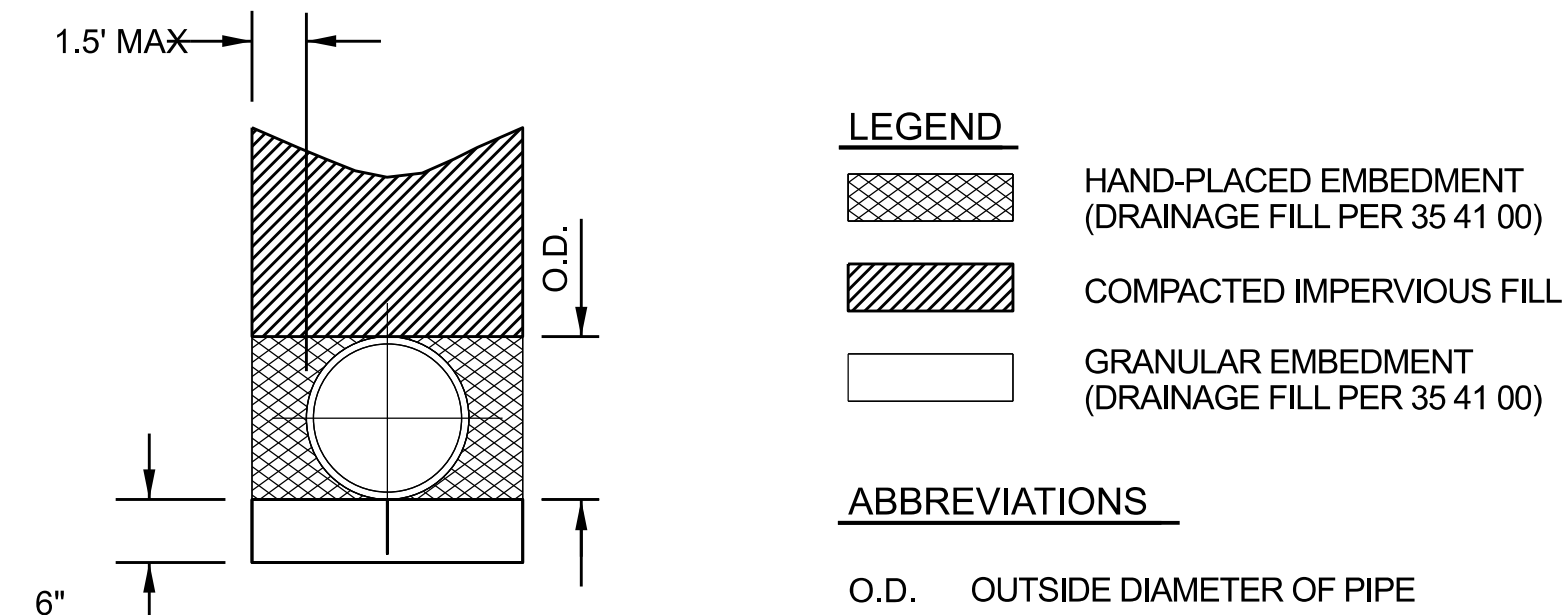


- SHEET NOTES
1. FOR EXISTING SANITARY STRUCTURE SURVEY DATA, SEE SHEET C-100.
 2. REMOVE AND REPLACE FENCES AND GATES, CURB AND GUTTER, AND PAVEMENT, AS NEEDED FOR DEMOLITION.
 3. FOR EXISTING MANHOLES NOTED TO BE ABANDONED IN PLACE, THE MANHOLE SHALL BE REMOVED TO 5' BELOW EXISTING GRADE, UNLESS NOTED OTHERWISE, WITH THE REMAINING SECTION FILLED WITH NON-SHRINK GROUT PER NOTES ON SS. G-002. AFTER PROPER CURE OF THE GROUT, THE REMAINING AREA SHALL BE BACKFILLED WITH IMPERVIOUS TO ADJACENT GRADE.
 4. THE PROPOSED SANITARY SEWER MAIN AND ALL BUILDING CONNECTIONS SHALL BE INSTALLED AND ACTIVE PRIOR TO THE ABANDONMENT OF THE EXISTING SANITARY SEWER.

DEMOLITION PLAN LEGEND

***** FILL UTILITIES W/ NON-SHRINK GROUT

APPROVED FOR CONSTRUCTION		DATE	APPR.
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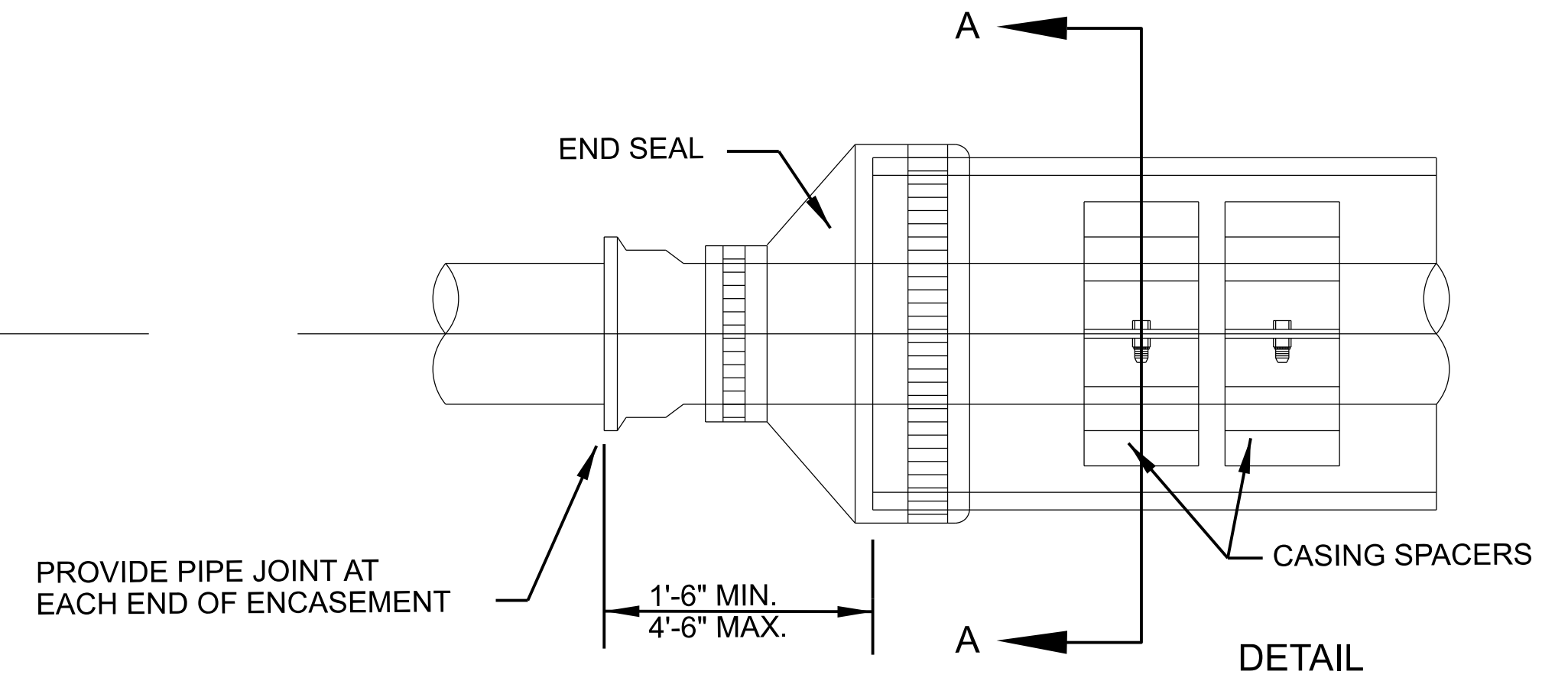
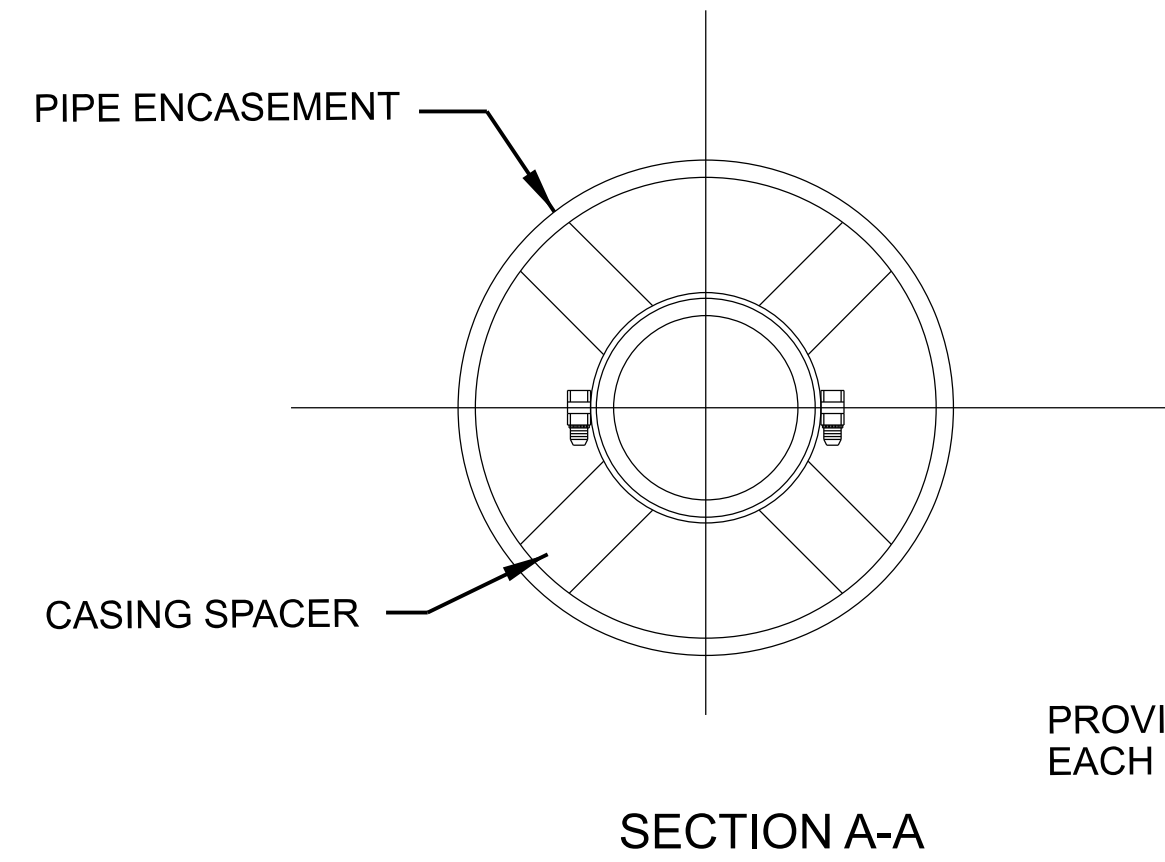
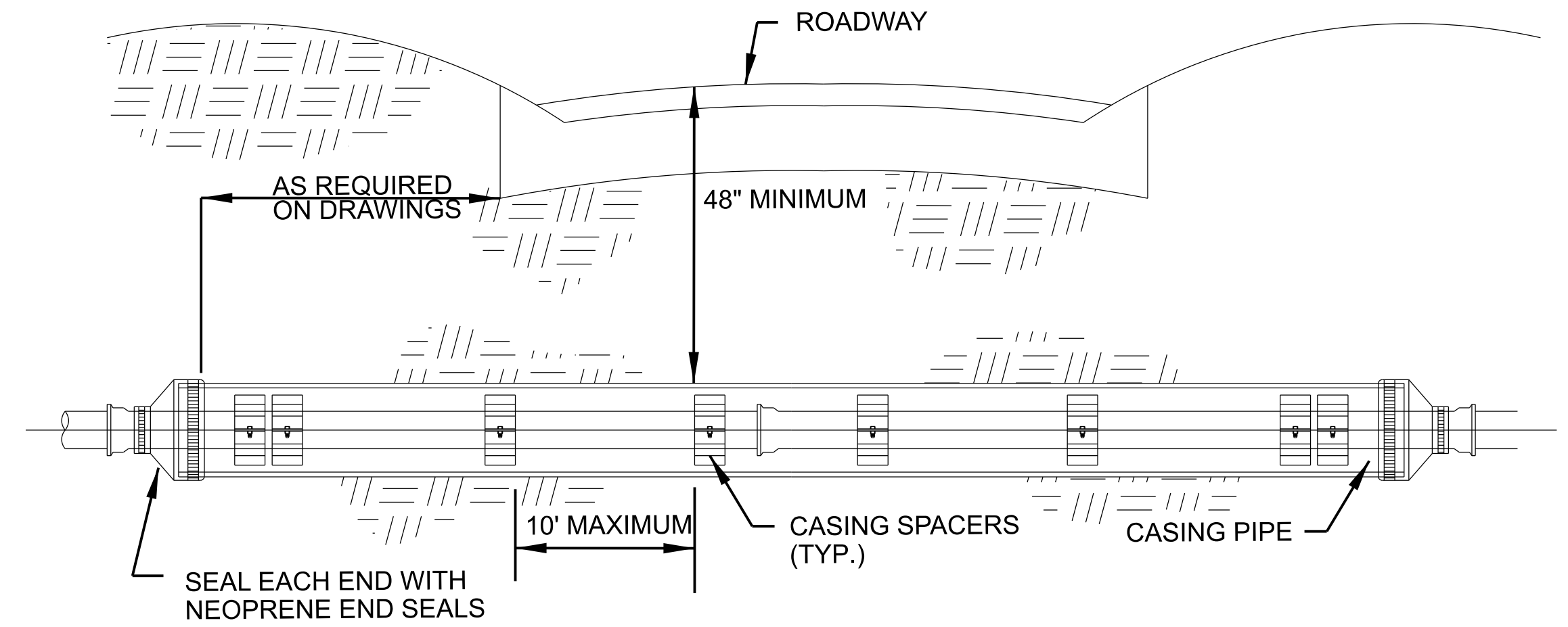
A SANITARY SEWER TYPICAL BEDDING DETAIL

CU202 CU503 N.T.S.
CU203
CU204

NOTES:

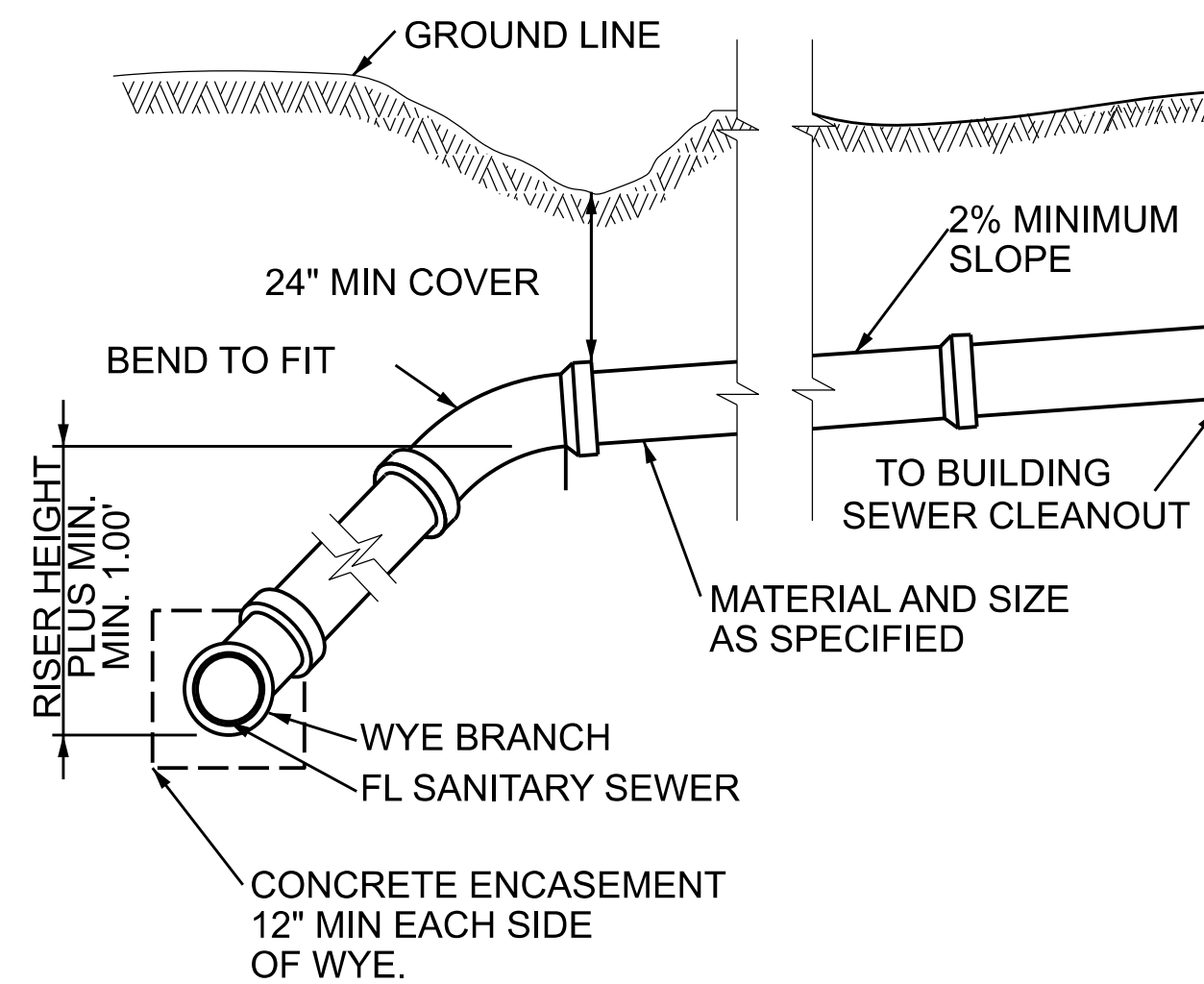
1. DETAIL SHOWN ARE SIMILAR FOR ALL CASING MATERIALS.

2. POLYETHYLENE ENCASEMENT SHALL BE INSTALLED ON ALL SANITARY SEWER PRIOR TO INSTALLING SPACERS AND PLACING IN CASING PIPE.



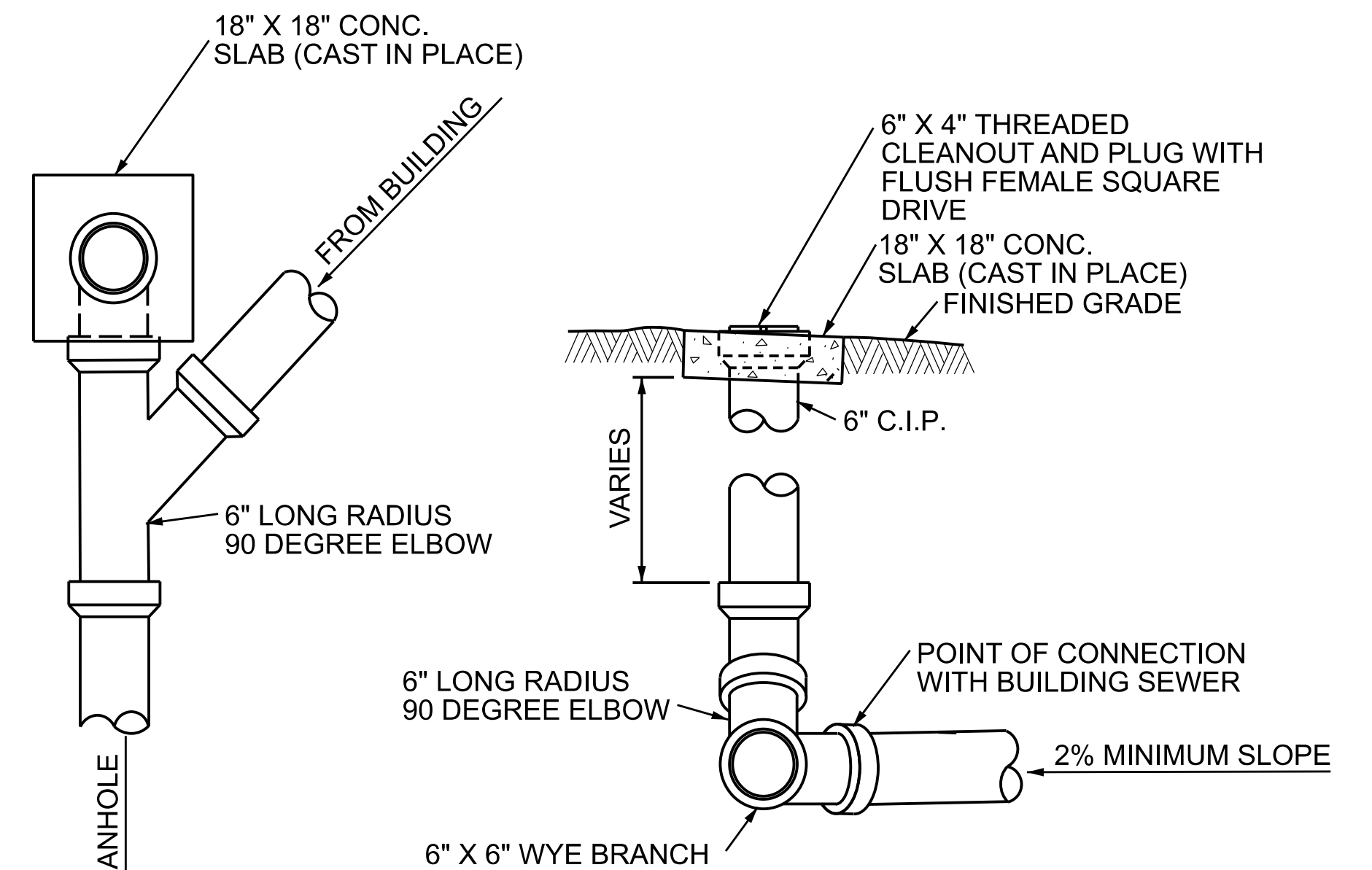
B STEEL PIPE ENCASEMENT

CU202 CU503 N.T.S.



C SANITARY CONNECTION

CU202 CU503 N.T.S.



D BUILDING SEWER CLEANOUT

CU202 CU503 N.T.S.

APPROVED FOR CONSTRUCTION					DATE	APPR.
					AS BUILT	SW
					DESCRIPTION	

Date:	File number:	Plot scale:	CADD File Name:
Designed by:	Drawn by:	Checked by:	Submitted by:

SANITARY SEWER RELOCATION DETAILS

Sheet Reference Number: SS CU501
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AS BUILT

1. CONSTRUCT PHASE 5 WORK IN THE FOLLOWING REACHES:
STA 0+00.00 TO 2+89.24
STA 6+88.44 TO a48+46.77
STA a57+15.23 TO a68+86.56

-
- ROW AREAS 1 & 2
- LEVEE:
SEED WITH LEVEE
MIX. SEE SHEET
CG105 FOR LIMITS
- BORROW AREA 2:
PLANTINGS
SEE SHEET LS102
FOR DETAILS
- LEVEE:
SEED LEVEE AND
RAMP SLOPES WITH
LEVEE MIX. SEE
SHEETS CG101 THRU
CG105 FOR LIMITS
- LEVEE:
SEED WITH
LEVEE MIX.
SEE SHEET CG101
FOR LIMITS
- BORROW AREA 1
MITIGATION PLANTING
SEE SHEET LS101 FOR DETAILS
- No Trees planted
in this area
- BLUE RIVER
- GRANDVIEW ROAD
- LEGEND

LEVEE:-
SEED WITH LEVEE
MIX. SEE SHEET
CG105 FOR LIMITS

BORROW AREA 2: -
PLANTINGS
SEE SHEET LS102
FOR DETAILS

LEVEE:
SEED LEVEE AND
RAMP SLOPES WITH
LEVEE MIX. SEE
SHEETS CG101 THRU
CG105 FOR LIMITS

LEVEE:
SEED WITH
LEVEE MIX.
SEE SHEET CG101
FOR LIMITS

✓ BORROW AREA 1
MITIGATION PLANTING
SEE SHEET LS101 FOR DETAILS

No Trees planted
in this area

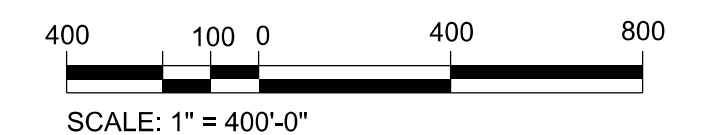
—

APPROXIMATE LEVEE
SEEDING AREAS

APPROXIMATE
PLANTING AREAS

ALL DISTURBED AREAS NOT SHOWN TO RECEIVE SEEDING,
RIPRAP OR AGGREGATE SURFACING SHALL BE SEEDED WITH
LEEVE SEEDING.

AS BUILT



APPROVED FOR CONSTRUCTION

[illegible]

Drawn by:	File number:
Checked by:	Plot scale:
Submitted by:	CADD File Name:

OVERALL PLAN VIEW

Sheet
Reference
Number:

LS100

