

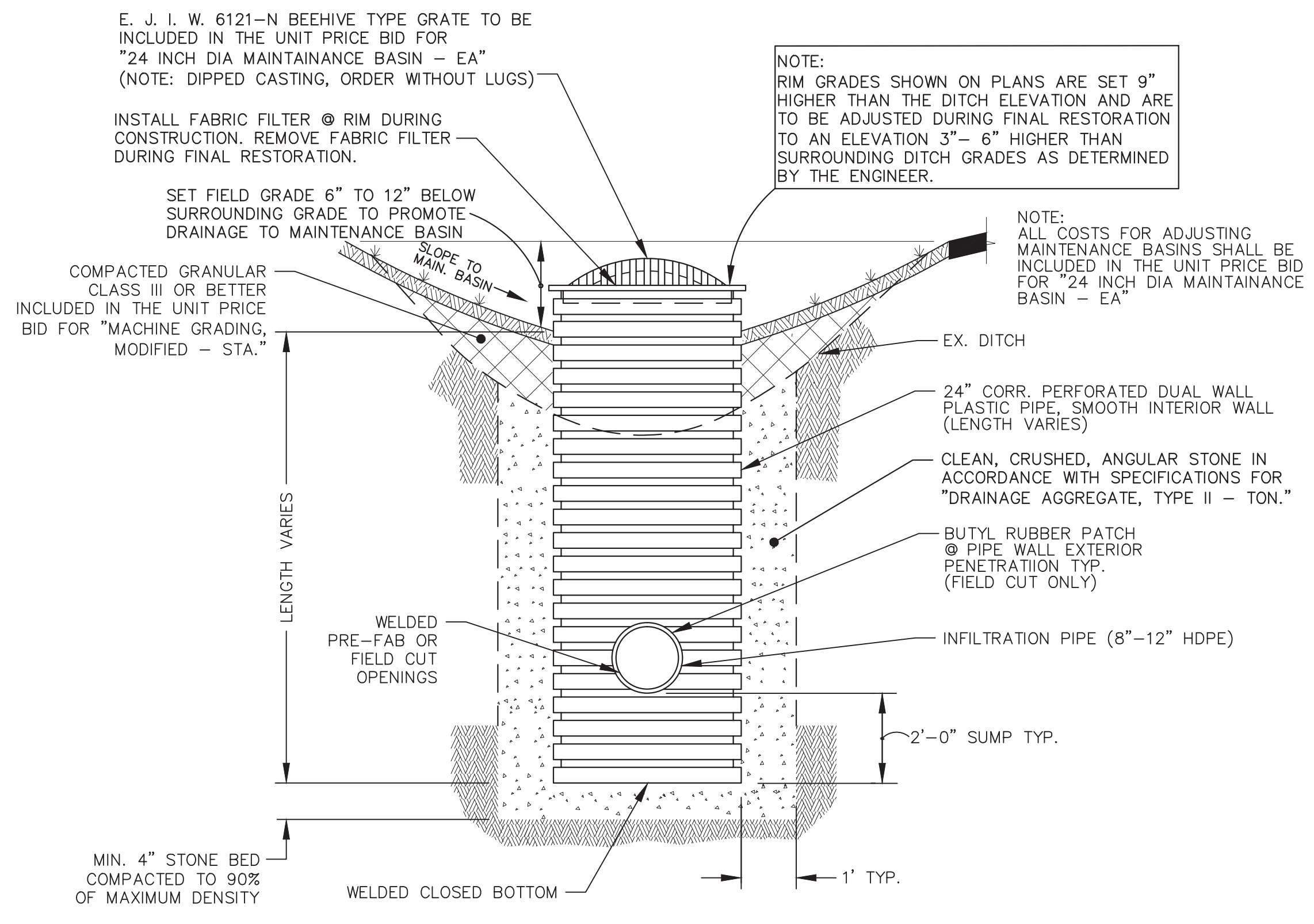
REV.	DESCRIPTION	DATE	DRAWN	CHECKED
1	ISSUED FOR BIDS	MAY 13, 2015	ALP/AMN	CEH
2	FINAL PLAN SUBMITTAL	APR. 22, 2015	ALP/AMN	CEH
3	FINAL REVIEW SUBMITTAL	MAR. 26, 2015	ALP/AMN	CEH
4	PRELIMINARY PLAN SUBMITTAL	MAR. 13, 2015	ALP/AMN	CEH
5	PRELIMINARY PLAN SUBMITTAL	JAN. 29, 2015	ALP/AMN	CEH

ADDENDUM No. 1

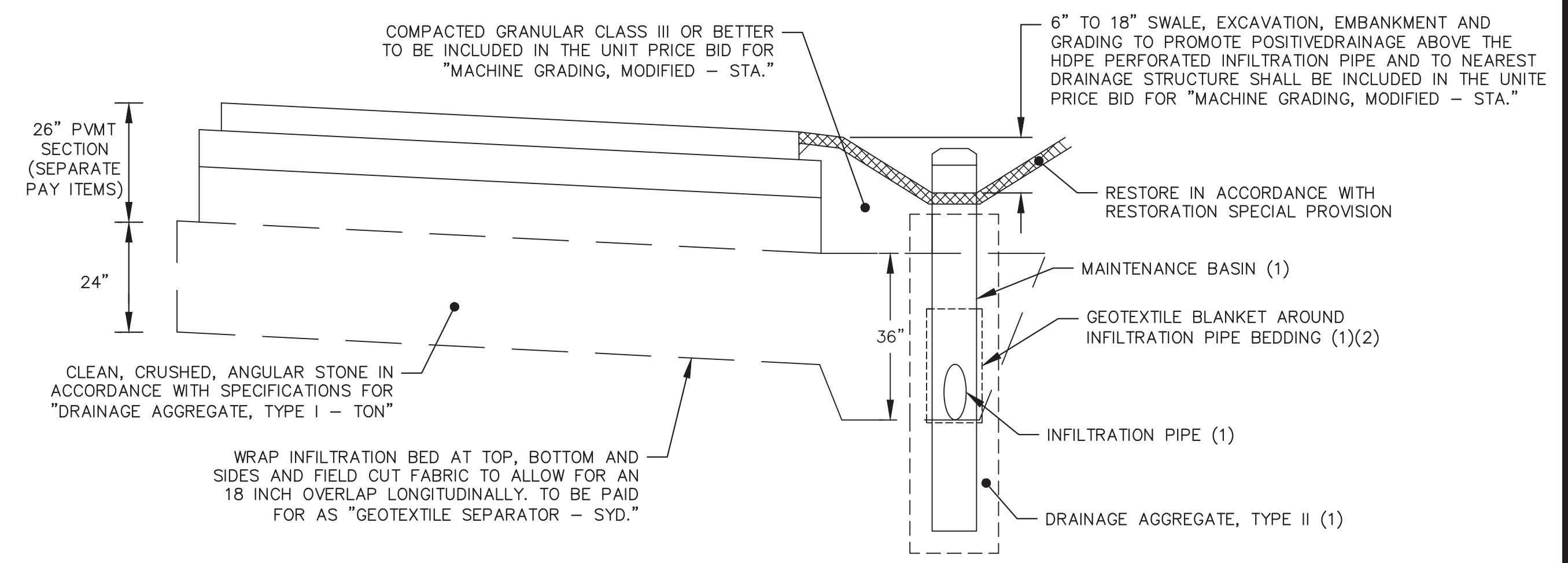
CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48107-8647  
www.a2gov.org

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
GEDES AVENUE IMPROVEMENTS  
PROJECT DETAILS  
INFILTRATION DETAILS

SCALE: NOT TO SCALE  
DRAWING No. DET-04  
SHEET No.

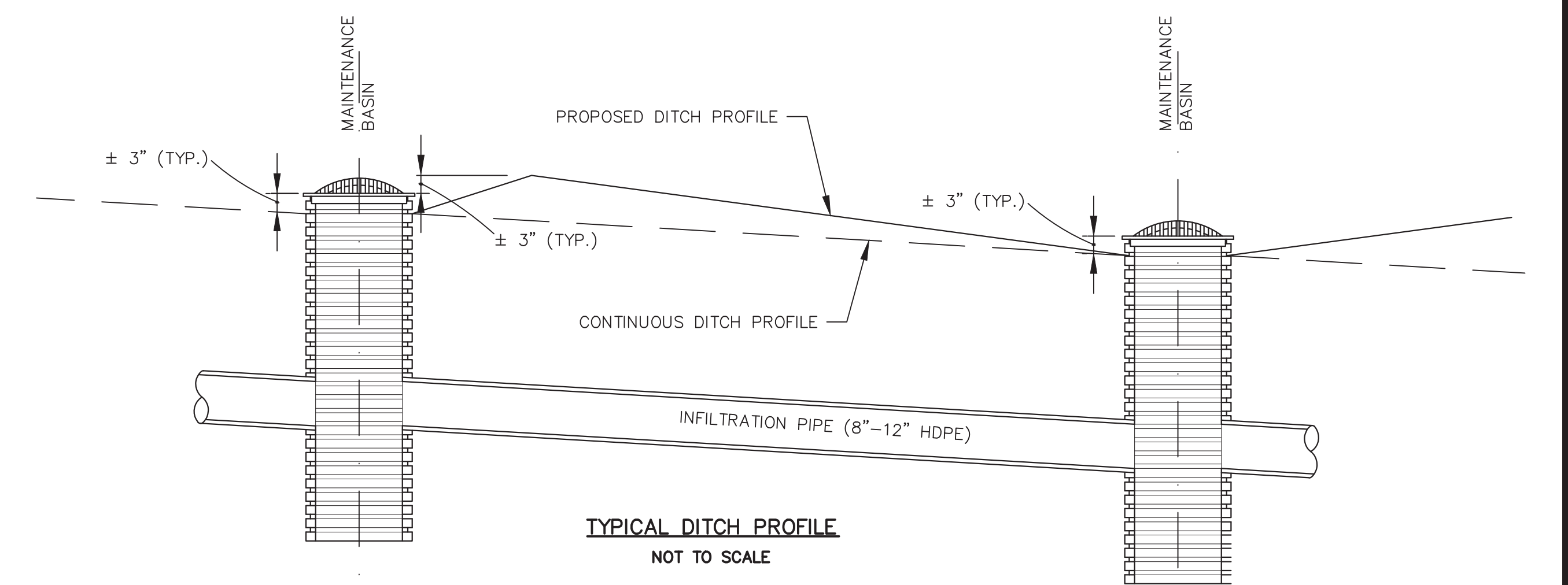


**MAINTAINANCE BASIN DETAIL (MB)**  
NOT TO SCALE



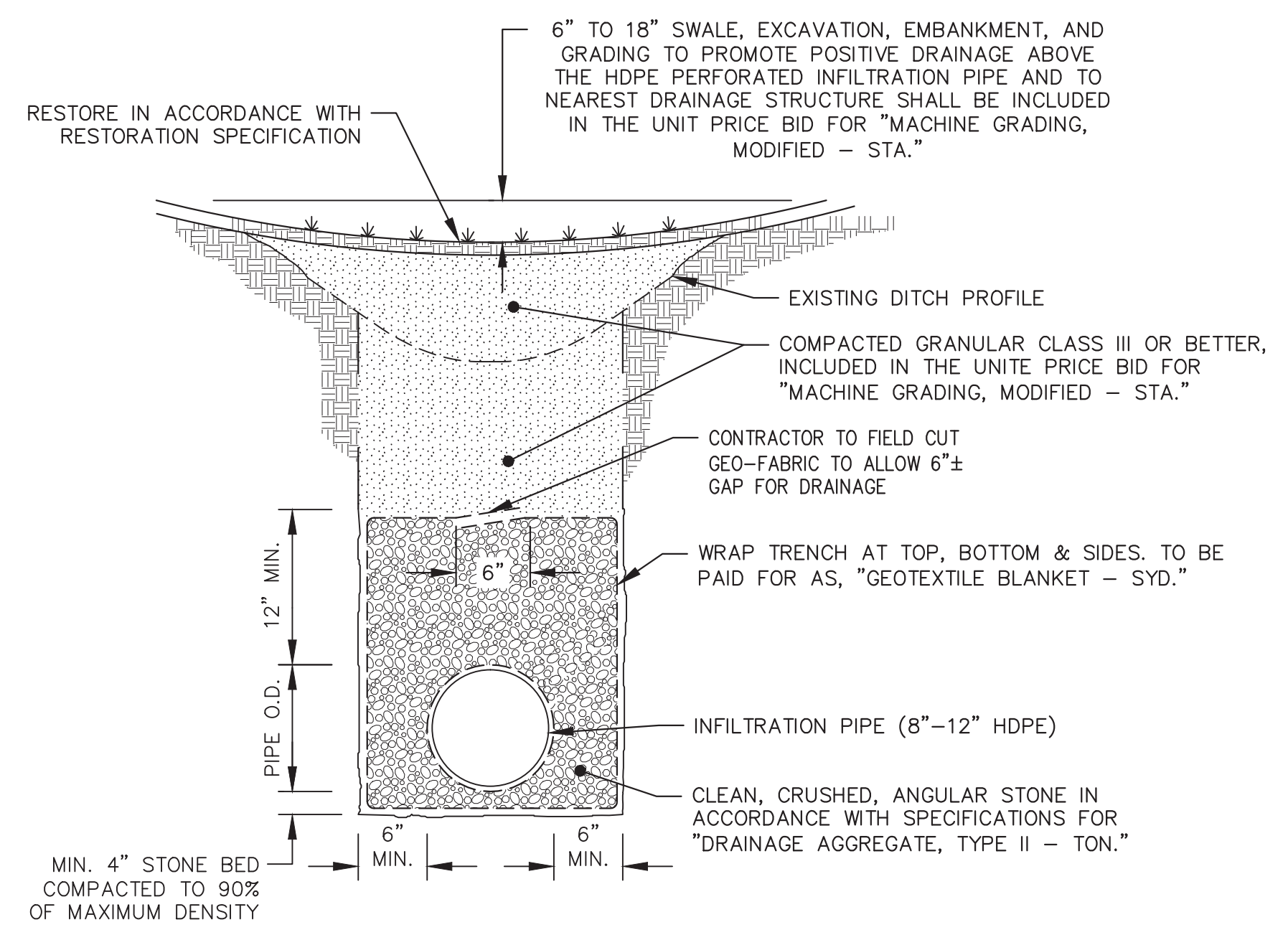
**INFILTRATION BED DETAIL**

- NOTE:
- (1) MAINTAINANCE BASIN AND INFILTRATION PIPE SHALL BE INSTALLED, BED AND BACKFILLED IN ACCORDANCE WITH THE SPECIAL DETAIL INCLUDED IN THESE DRAWINGS, INCLUDING THE INSTALLATION OF "DRAINAGE AGGREGATE, TYPE II" AND "GEOTEXTILE BLANKET" WHERE CALLED FOR.
  - (2) IF "DRAINAGE AGGREGATE, TYPE I" MEETS THE GRADATION REQUIREMENTS OF "DRAINAGE AGGREGATE, TYPE II" THE "GEOTEXTILE BLANKET" AROUND THE INFILTRATION PIPE WITHIN THE INFILTRATION BED MAY BE OMITTED.
  - (3) EXCAVATION REQUIRED FOR INFILTRATION BASINS SHALL BE INCLUDED IN "MACHINE GRADING, MODIFIED"

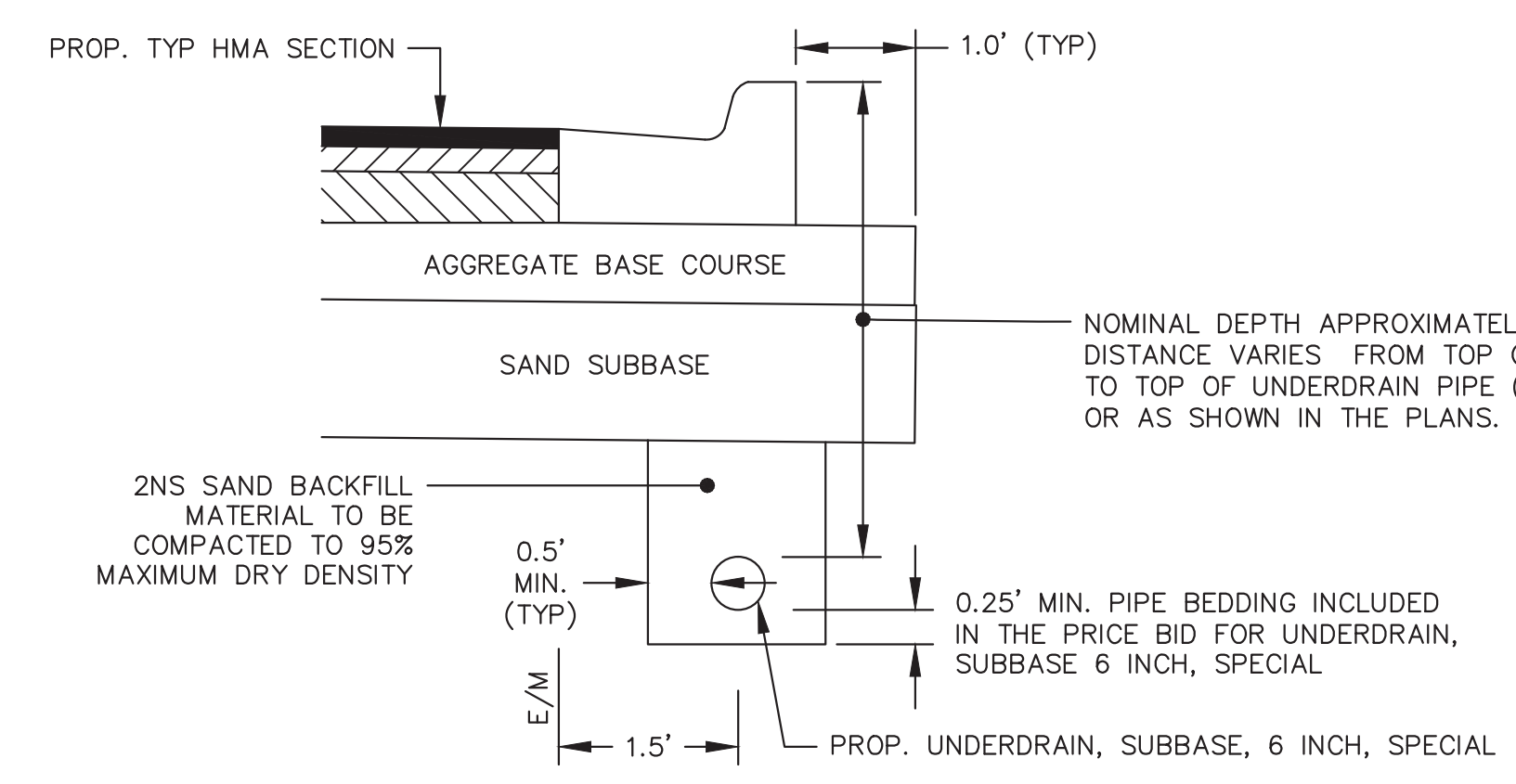


**TYPICAL DITCH PROFILE**  
NOT TO SCALE

NOTE:  
GRADING ABOVE THE INFILTRATION TRENCH TO THE PROPOSED DITCH SECTION AND PROFILE IS CONSIDERED INCLUDED IN THE UNIT BID PRICE FOR "MACHINE GRADING, MODIFIED - STA"



**INFILTRATION TRENCH SECTION (INFILTRATION PIPE)**  
NOT TO SCALE

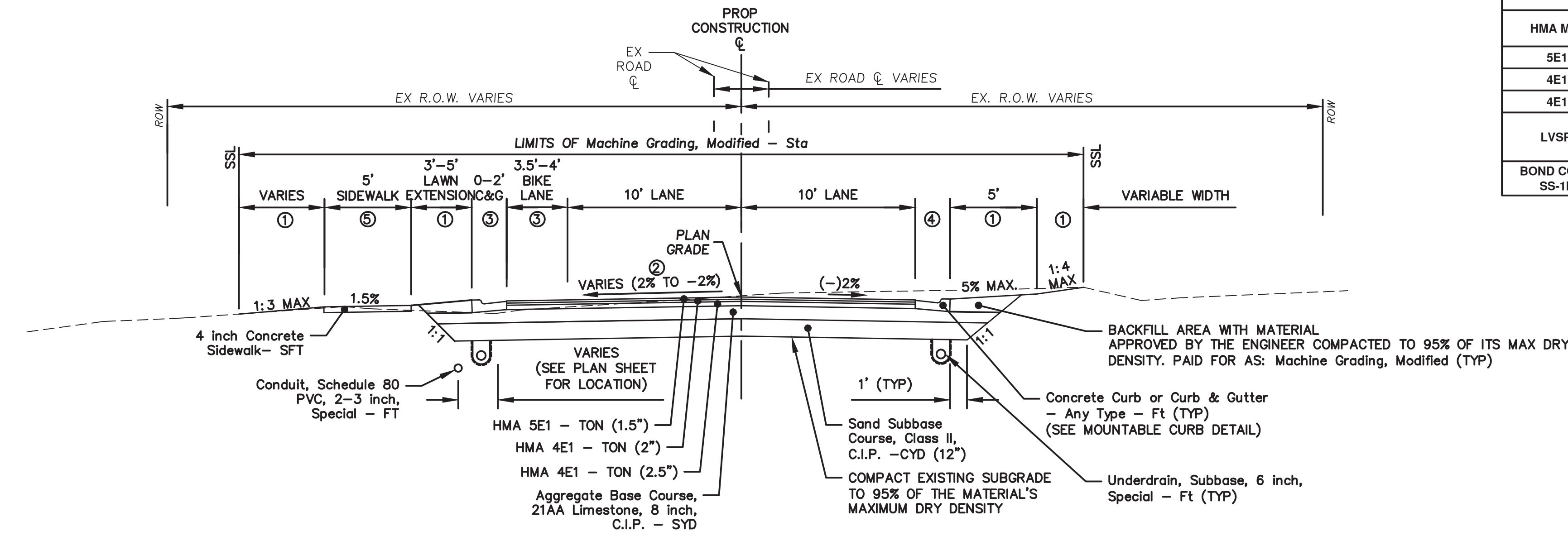


**TRENCH DETAIL FOR UNDERDRAIN**  
NOT TO SCALE

- UNDERDRAIN NOTES:
1. FOR PAVEMENT BASE AND SUBBASE THICKNESS, SEE TYPICAL SECTIONS.
  2. TRENCH DETAILS SHOW TYP OF BACKFILL AND SURFACE RESTORATION ONLY.
  3. ALL TRENCHING TO CONFORM TO ALL APPLICABLE M.I.O.S.H.A. STANDARDS.
  4. BASED ON CITY OF ANN ARBOR STANDARD SD-TD-10.

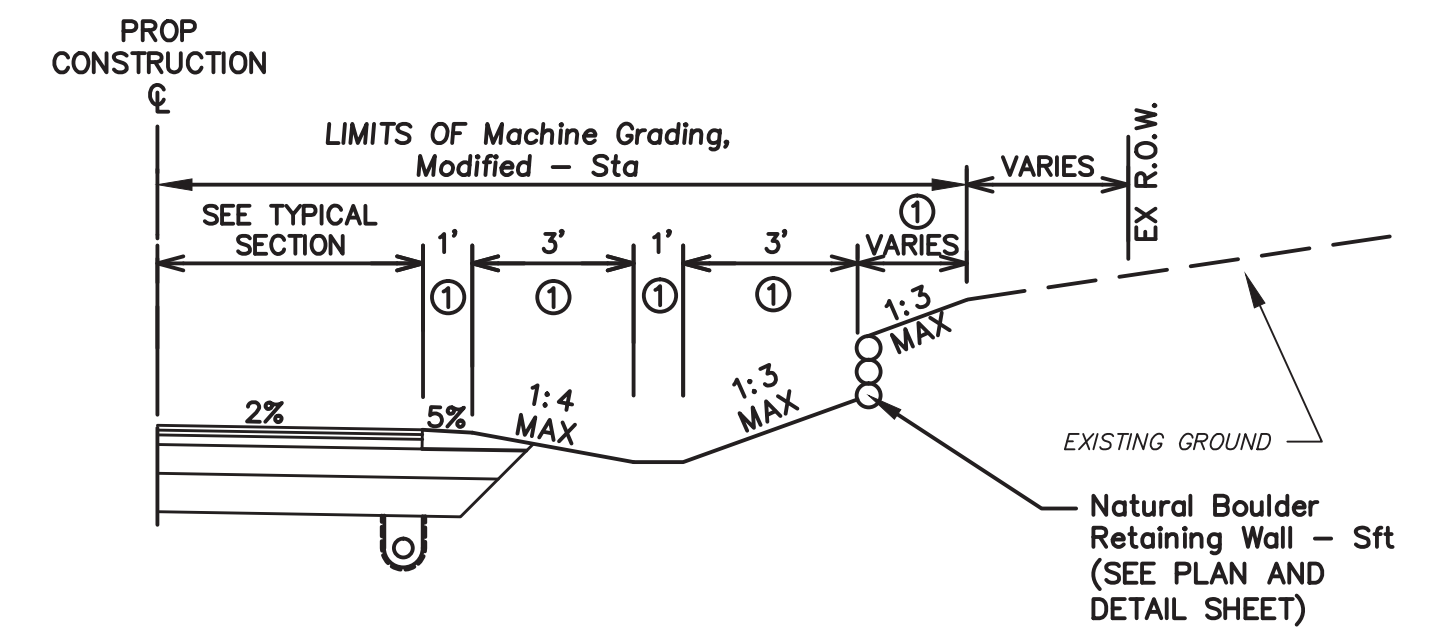


GEDDES AVENUE - HMA APPLICATION ESTIMATE					
HMA MIX	RATE OF APPLICATION	THICKNESS (INCHES)	AWI (MIN.)	BINDER	LOCATION/NOTES
5E1	165 LB/SYD	1.5	260	PG 64-22	TOP COURSE
4E1	220 LB/SYD	2.0		PG 64-22	LEVELING COURSE
4E1	275 LB/SYD	2.5		PG 64-22	LEVELING COURSE
LVSP	165 LB/SYD 220 LB/SYD	1.5 (TOP) 2.0 (LEVELING) 3.5 TOTAL		PG 64-22	DRIVE APPROACHES HMA PATH
BOND COAT SS-1h	0.05 GAL/SYD				INCLUDED IN COST OF HMA ITEMS



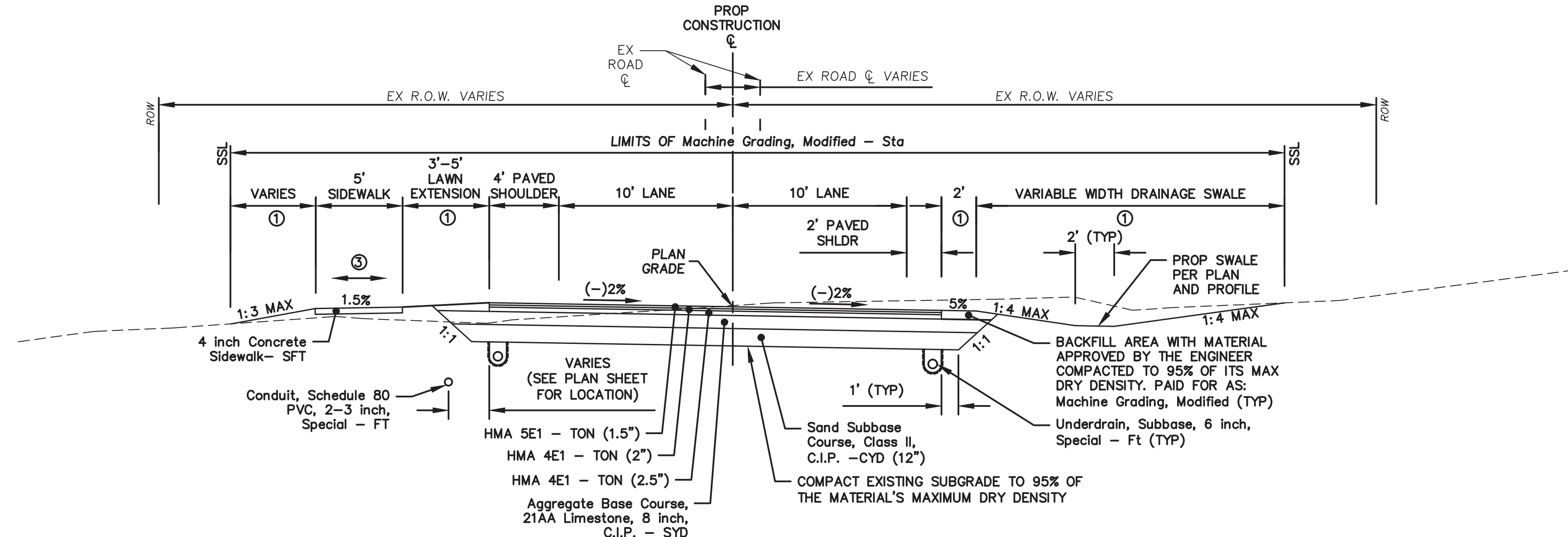
**GEDDES AVENUE  
TYPICAL SECTION**  
**STA. 7+32 (P.O.B.) TO STA. 10+00**  
N.T.S.

- NOTE:
- ① TURF ESTABLISHMENT
  - ② STA 7+32 TO 9+20: NORMAL CROWN  
STA 9+20 TO 9+60: VARIES 2% TO 0%  
STA 9+60 TO 10+00: VARIES 0% TO SUPERELEVATION (-2%)
  - ③ 4' PAVED SHOULDER INSTEAD OF 3.5' BIKE LANE AND MOUNTABLE CURB FROM STA 9+52 TO 10+00
  - ④ 2' PAVED SHOULDER INSTEAD OF MOUNTABLE CURB FROM STA 9+63 TO 10+00
  - ⑤ CROSS SLOPE OF SIDEWALK TO BE 2.0% THRU DRIVEWAYS



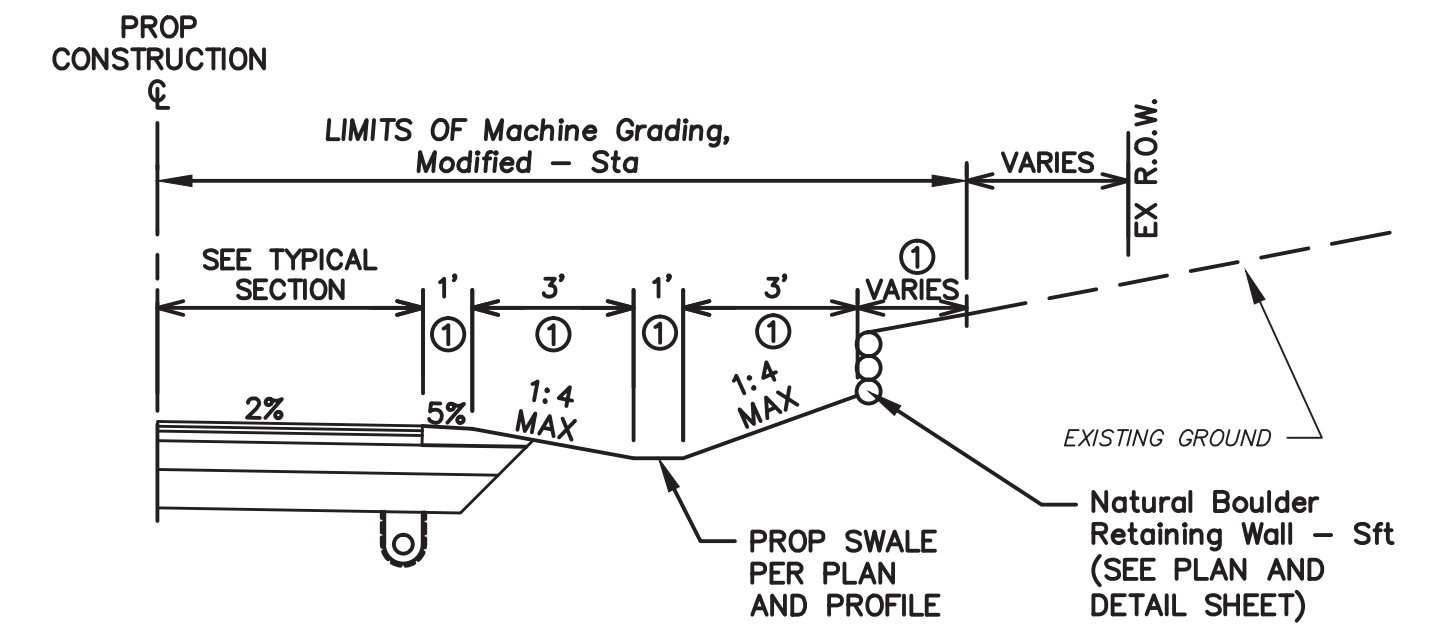
**INFILTRATION DITCH/BOULDER RETAINING WALL  
GRADING DETAIL**  
**STA 15+50 TO STA 16+30**  
N.T.S.

- NOTE:
- ① TURF ESTABLISHMENT



**GEDDES AVENUE  
TYPICAL SECTION**  
**STA. 10+00 TO STA. 23+75** ②  
N.T.S.

- NOTE:
- ① TURF ESTABLISHMENT
  - ② INFILTRATION TRENCH TO BE INSTALLED UNDER PROPOSED ROAD WAY FROM STA 10+40 TO 14+10. SEE INFILTRATION PLAN AND PROFILE SHEET FOR DETAILS.
  - ③ SEE ALIGNMENT PLAN FOR DIRECTION OF SLOPE.
  - ④ CROSS SLOPE OF SIDEWALK TO BE 2.0% THRU DRIVEWAYS
  - ⑤ EXCAVATION FOR INFILTRATION BEDS SHALL BE INCLUDED IN MACHINE GRADING, MODIFIED



**INFILTRATION DITCH/BOULDER RETAINING WALL  
GRADING DETAIL**  
**STA 17+50 TO STA 23+00**  
N.T.S.

- NOTE:
- ① TURF ESTABLISHMENT

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
1	ISSUED FOR BIDS	APR. 22, 2015	ALP/AMN	CEH
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ADDENDUM No. 1  
CITY OF ANN ARBOR  
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
GEDDES AVENUE IMPROVEMENTS  
GEDDES AVENUE TYPICAL SECTIONS  
P.O.B. TO 23+75

SCALE NOT TO SCALE  
DRAWING No. TYP-04  
SHEET No.

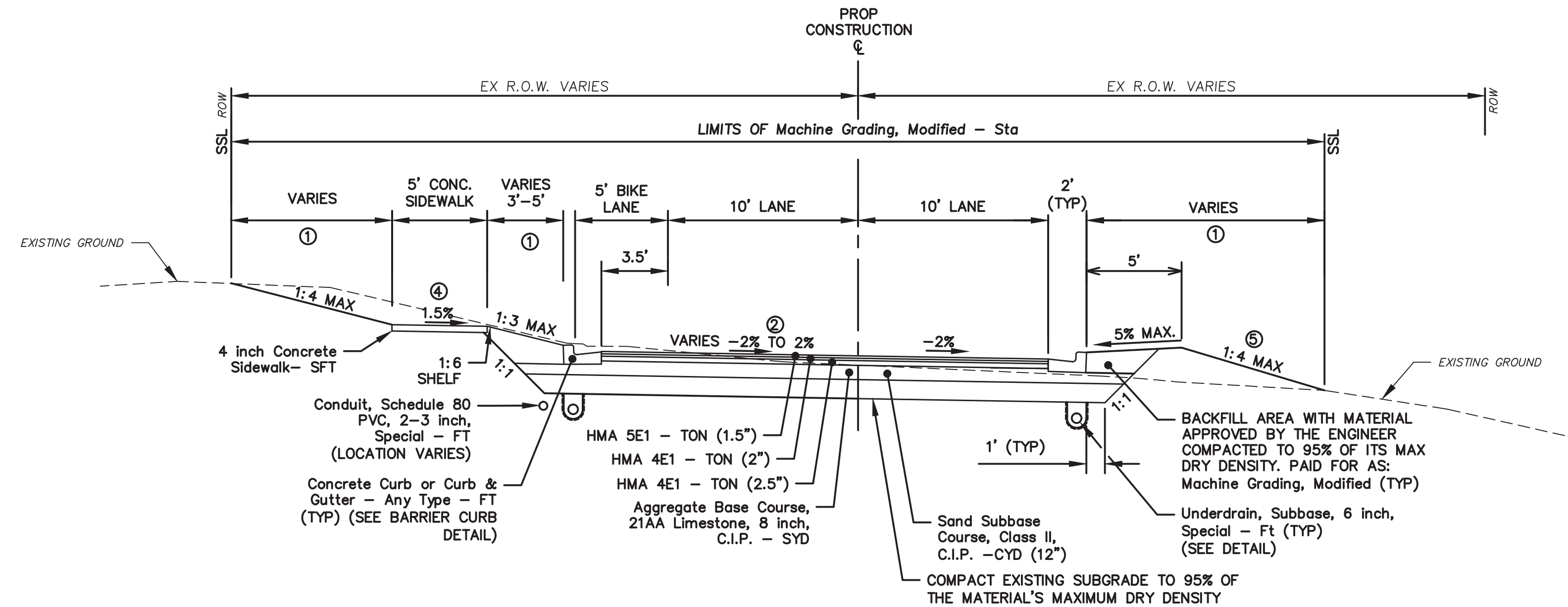


REV.	DESCRIPTION	DATE	DRAWN	CHECKED
MAY 13, 2015	ALP/AMN			
APR. 22, 2015	ALP/AMN			
MAR. 26, 2015	ALP/AMN			
MAR. 13, 2015	ALP/AMN			
JAN. 29, 2015	ALP/AMN			

ADDENDUM No. 1  
 ISSUED FOR BIDS  
 FINAL PLAN SUBMITTAL  
 FINAL REVIEW SUBMITTAL  
 PRELIMINARY PLAN SUBMITTAL

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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
 SCALE NOT TO SCALE  
 DRAWING No. TYP-05  
 SHEET No.



**GEDDES AVENUE  
 TYPICAL SECTION**

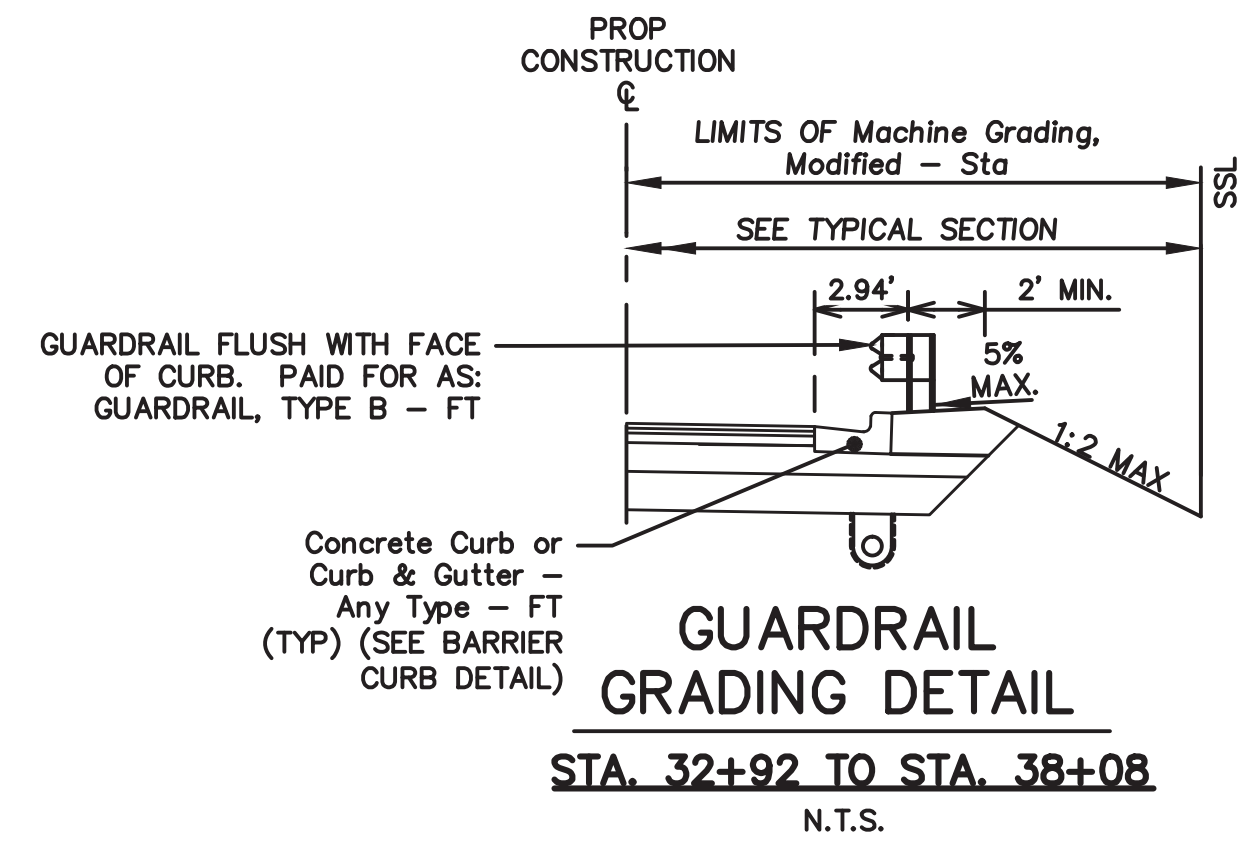
**STA. 23+75 TO STA. 39+60** ①

N.T.S.

**NOTES:**

- ① TURF ESTABLISHMENT
- ② STA 23+75 TO 38+60: SUPERELEVATION (-2%)  
 STA 38+60 TO 39+00: VARIES -2% TO 0%  
 STA 39+00 TO 39+60: VARIES 0% TO 2%
- ③ INFILTRATION BEDS TO BE INSTALLED UNDER PROPOSED ROAD WAY FROM:  
 - STA 26+60 TO 29+00  
 - STA 31+25 TO 32+50  
 SEE INFILTRATION PLAN AND PROFILE SHEET FOR DETAILS.
- ④ SEE ALIGNMENT PLAN. CROSS SLOPE OF SIDEWALK TO BE 2.0% THRU DRIVEWAYS.
- ⑤ 1:3 MAX. GRADING TO APPLY FROM STA 29+75 TO 30+75

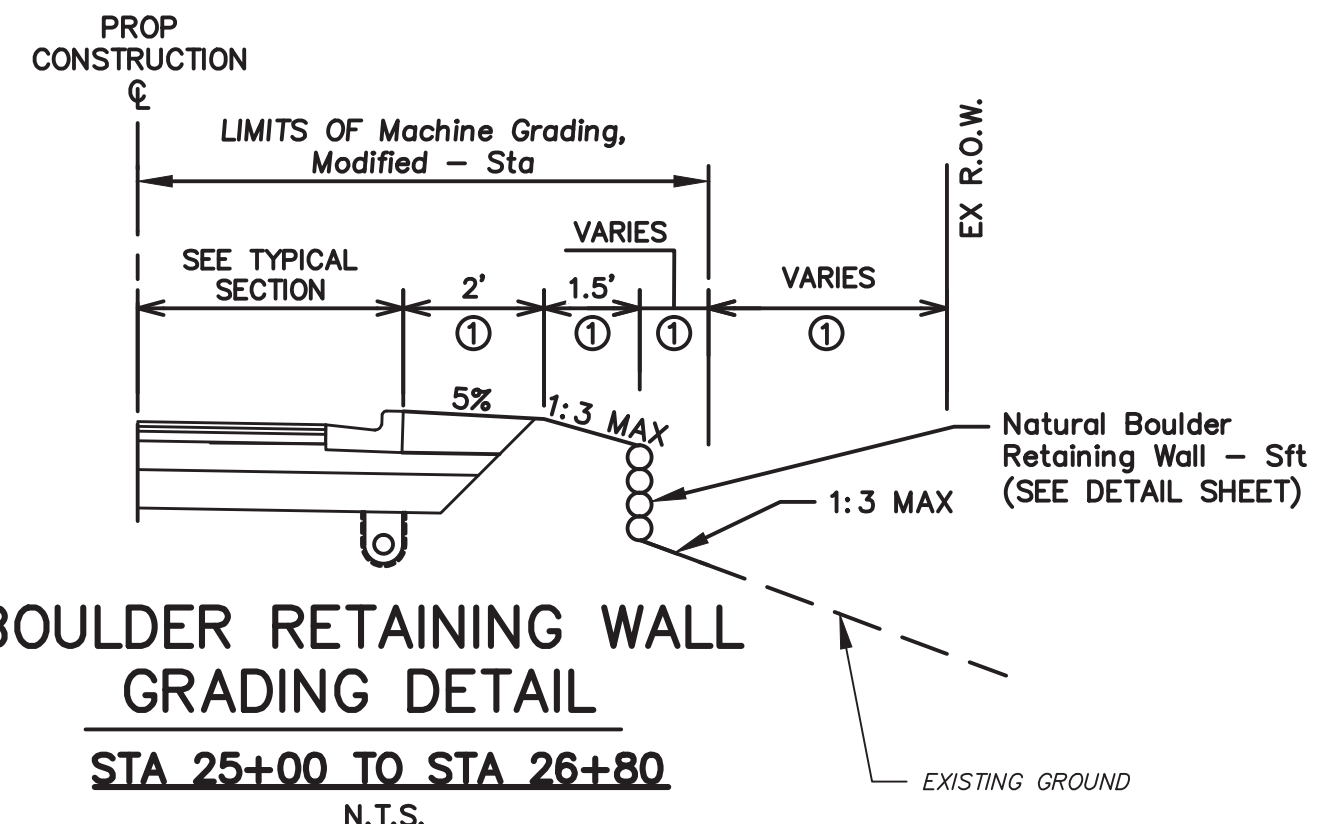
⑥ EXCAVATION FOR INFILTRATION BEDS SHALL BE INCLUDED IN MACHINE GRADING, MODIFIED.



**GUARDRAIL  
 GRADING DETAIL**

**STA. 32+92 TO STA. 38+08**

N.T.S.



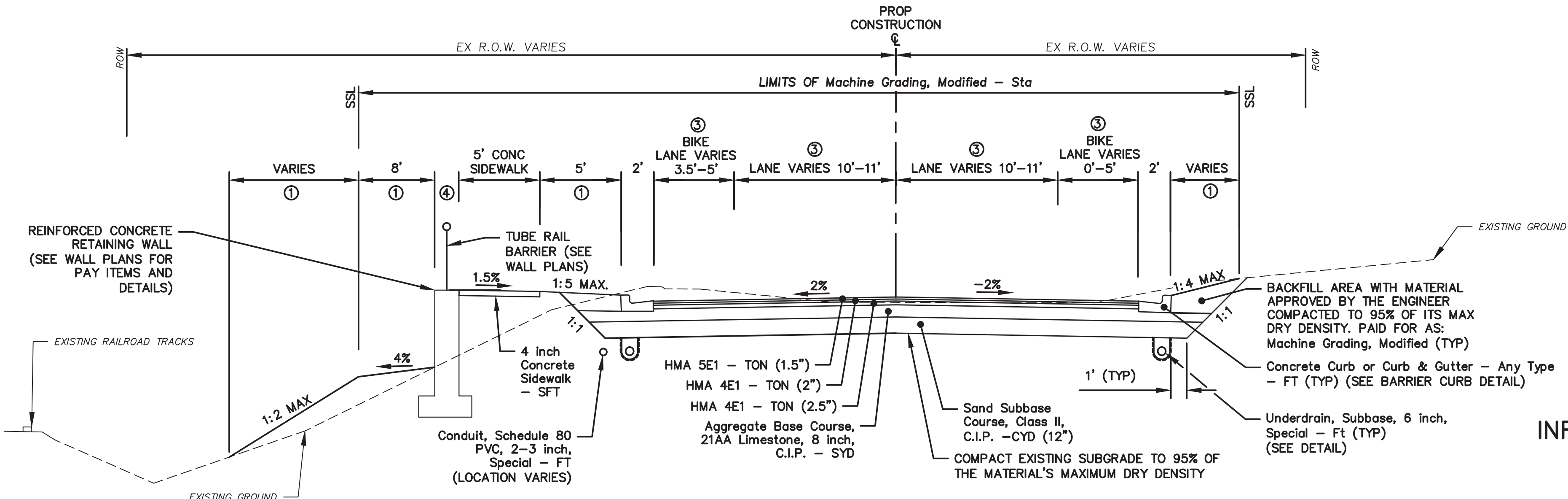
**BOULDER RETAINING WALL  
 GRADING DETAIL**

**STA. 25+00 TO STA. 26+80**

N.T.S.

**NOTES:**

- ① TURF ESTABLISHMENT



**GEDDES AVENUE  
 TYPICAL SECTION**

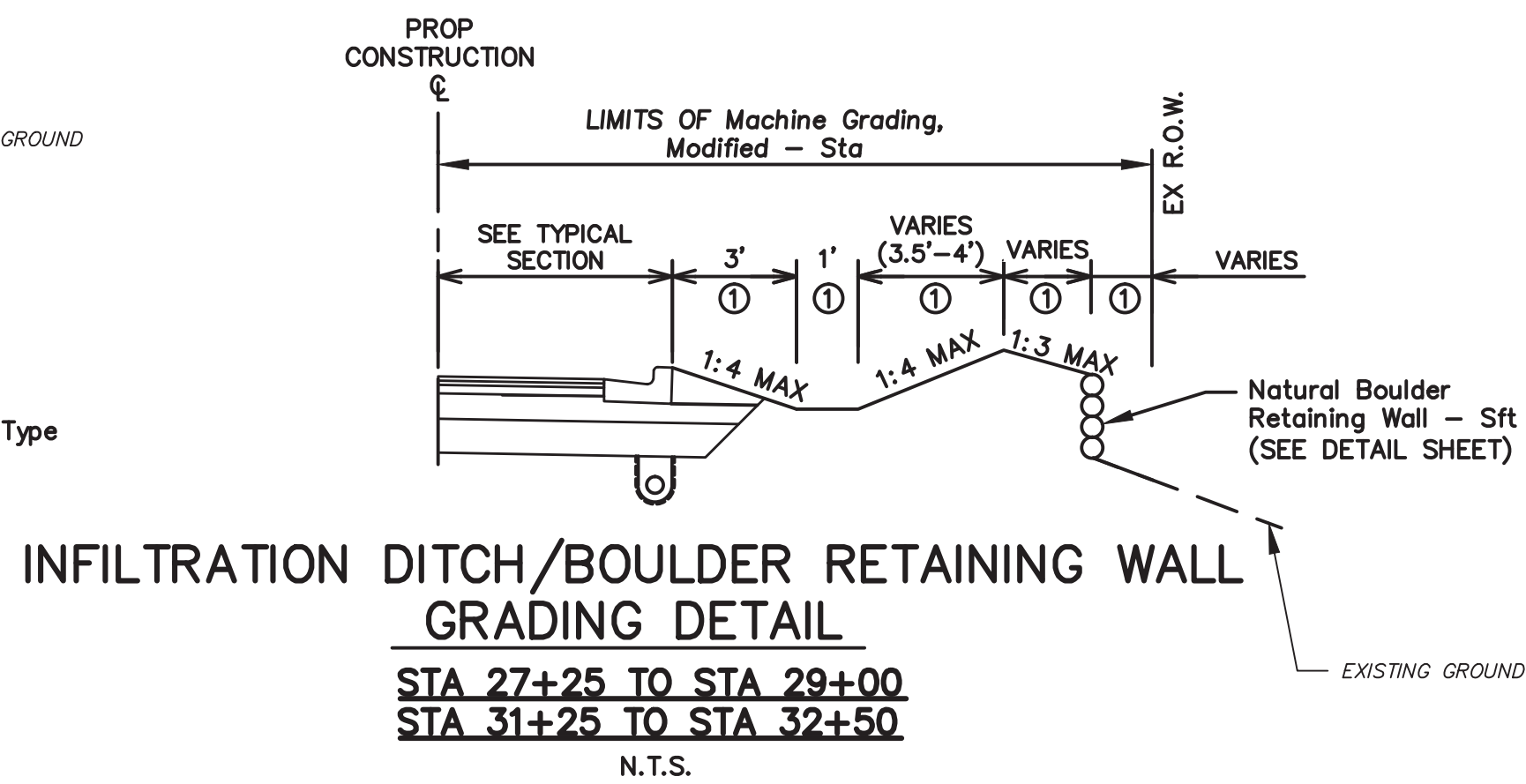
**STA. 39+60 TO STA. 47+32** ②

N.T.S.

**NOTES:**

- ① TURF ESTABLISHMENT
- ② INFILTRATION BEDS TO BE INSTALLED UNDER PROPOSED ROAD WAY FROM:  
 - STA 40+50 TO 41+50  
 - STA 42+00 TO 43+25  
 SEE INFILTRATION PLAN AND PROFILE SHEET FOR DETAILS.
- ③ WIDENING FROM STA 39+43 TO STA 42+72
- ④ REINFORCED CONCRETE RETAINING WALL APPLIES TO STA 42+07 TO STA 47+32

⑤ EXCAVATION FOR INFILTRATION BEDS SHALL BE INCLUDED IN MACHINE GRADING, MODIFIED.



**INFILTRATION DITCH/BOULDER RETAINING WALL  
 GRADING DETAIL**

**STA. 27+25 TO STA. 29+00  
 STA. 31+25 TO STA. 32+50**

N.T.S.

**NOTES:**

- ① TURF ESTABLISHMENT

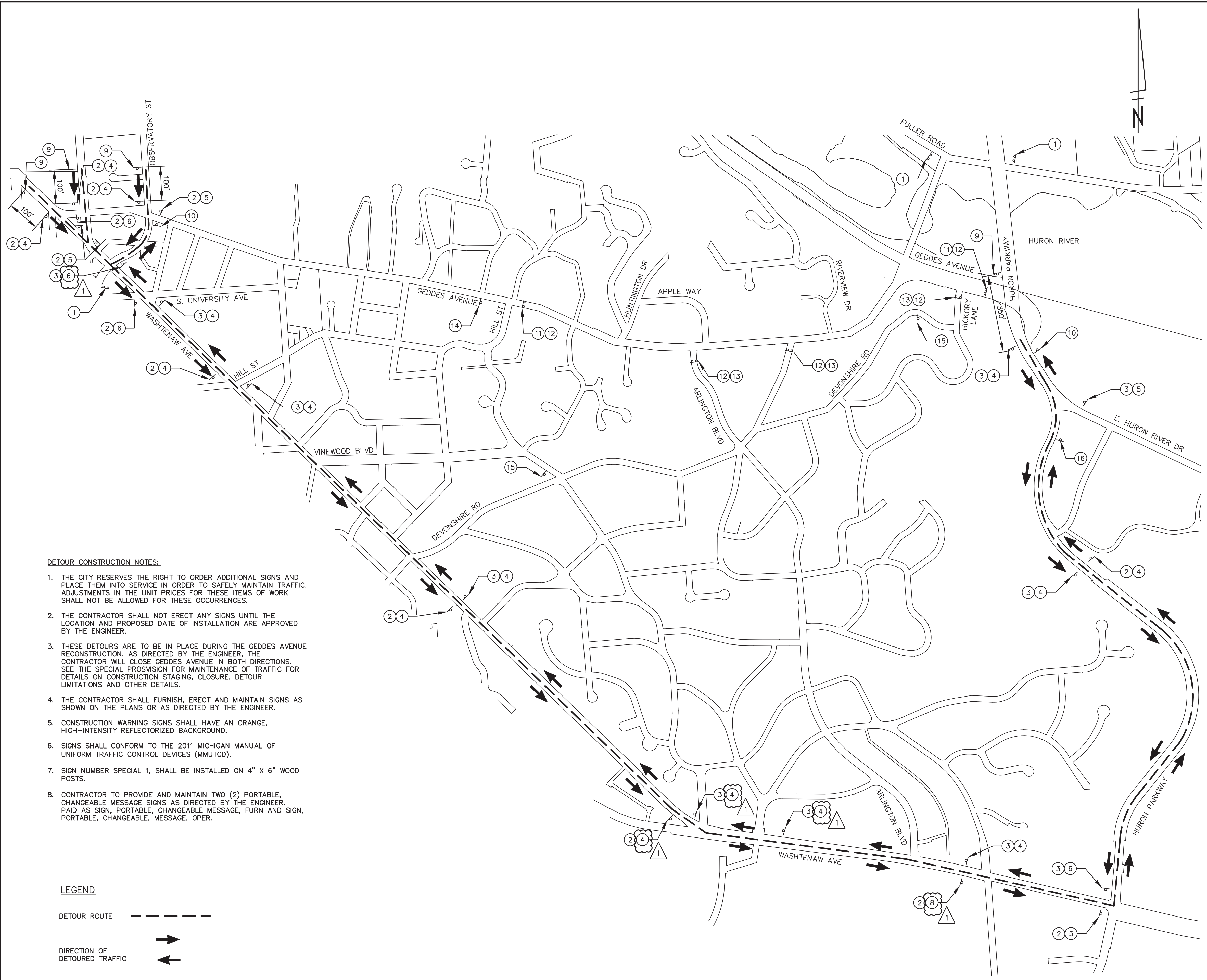


REV.	DATE	DESCRIPTION
MAY 13, 2015	ALP/ANN	ISSUED FOR BIDS
APR. 22, 2015	ALP/ANN	FINAL PLAN SUBMITTAL
MAR. 26, 2015	ALP/ANN	FINAL REVIEW SUBMITTAL
MAR. 13, 2015	ALP/ANN	PRELIMINARY PLAN SUBMITTAL
JAN. 29, 2015	ALP/ANN	PRELIMINARY PLAN SUBMITTAL

ADDENDUM No. 1  
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 PUBLIC SERVICES  
 301 EAST HURON STREET  
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
 GEDDES AVENUE IMPROVEMENTS  
 MAINTENANCE OF TRAFFIC  
 DETOUR PLAN  
 DRAWING No. MOT-01  
 SHEET No.

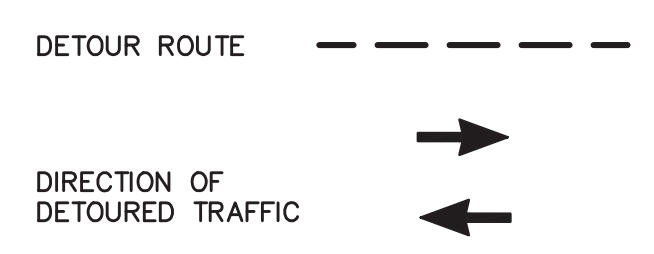
TRAFFIC CONTROL SIGNS		
SIGN	NUMBER/ SIZE	QUANTITY
<b>GEDDES AVE CLOSED HURON PKWY TO WASHTENAW AVE USE ALT ROUTE</b>	SPECIAL 1 66" X 84"	2
<b>GEDDES AVE EAST</b>	SPECIAL 2 30" X 24"	14
<b>GEDDES AVE WEST</b>	SPECIAL 3 30" X 24"	10
<b>DETOUR</b> ↑	M4-9(S) 30" X 24"	15
<b>DETOUR</b> ←	M4-9(L) 30" X 24"	2
<b>DETOUR</b> →	M4-9(R) 30" X 24"	4
<b>DETOUR</b> ↶	M4-9(MOD) 30" X 24"	1
<b>DETOUR</b> ↷	M4-9(MOD) 30" X 24"	1
<b>DETOUR AHEAD</b>	W20-2 36" X 36"	4
<b>DETOUR ENDS</b>	M4-8a 24" X 12"	2
<b>ROAD CLOSED TO THRU TRAFFIC</b>	R11-4 60" X 30"	5
<b>BARRICADE, TYPE III, HIGH INTENSITY, LIGHTED</b>	-	5
<b>ROAD CLOSED</b>	R11-2 48" X 30"	3
<b>BIKE DETOUR TO GALLUP PARK</b> ←	SPECIAL 4 36" X 36"	1
<b>BIKE DETOUR TO GALLUP PARK</b> →	SPECIAL 5 36" X 36"	2
<b>GEDDES AVE CLOSED HURON PKWY WASHINGTON AVE BIKE ACCESS GALLUP PARK OFF FULLER RD</b>	SPECIAL 6 66" X 84"	1



**DETOUR CONSTRUCTION NOTES:**

1. THE CITY RESERVES THE RIGHT TO ORDER ADDITIONAL SIGNS AND PLACE THEM INTO SERVICE IN ORDER TO SAFELY MAINTAIN TRAFFIC. ADJUSTMENTS IN THE UNIT PRICES FOR THESE ITEMS OF WORK SHALL NOT BE ALLOWED FOR THESE OCCURRENCES.
2. THE CONTRACTOR SHALL NOT ERECT ANY SIGNS UNTIL THE LOCATION AND PROPOSED DATE OF INSTALLATION ARE APPROVED BY THE ENGINEER.
3. THESE DETOURS ARE TO BE IN PLACE DURING THE GEDDES AVENUE RECONSTRUCTION. AS DIRECTED BY THE ENGINEER, THE CONTRACTOR WILL CLOSE GEDDES AVENUE IN BOTH DIRECTIONS. SEE THE SPECIAL PROVISION FOR MAINTENANCE OF TRAFFIC FOR DETAILS ON CONSTRUCTION STAGING, CLOSURE, DETOUR LIMITATIONS AND OTHER DETAILS.
4. THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN SIGNS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
5. CONSTRUCTION WARNING SIGNS SHALL HAVE AN ORANGE, HIGH-INTENSITY REFLECTORIZED BACKGROUND.
6. SIGNS SHALL CONFORM TO THE 2011 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD).
7. SIGN NUMBER SPECIAL 1, SHALL BE INSTALLED ON 4" X 6" WOOD POSTS.
8. CONTRACTOR TO PROVIDE AND MAINTAIN TWO (2) PORTABLE, CHANGEABLE MESSAGE SIGNS AS DIRECTED BY THE ENGINEER. PAID AS SIGN, PORTABLE, CHANGEABLE MESSAGE, FURN AND SIGN, PORTABLE, CHANGEABLE, MESSAGE, OPER.

**LEGEND**

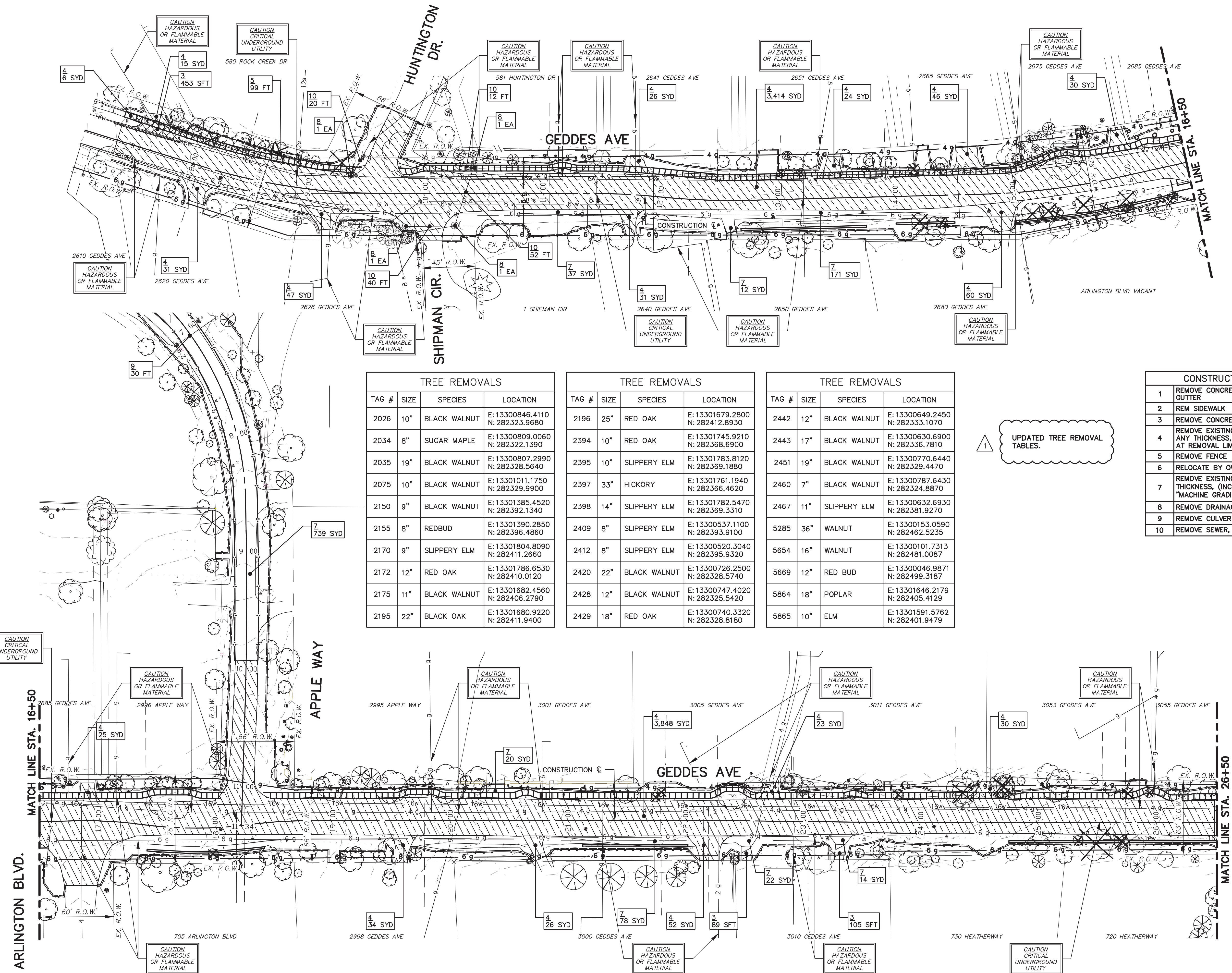




CEH	ALP/ANN	MAY 13, 2015	ADDITIONAL No. 1
CEH	ALP/ANN	APR. 22, 2015	ISSUED FOR BIDS
CEH	ALP/ANN	MAR. 26, 2015	FINAL PLAN SUBMITTAL
CEH	ALP/ANN	MAR. 13, 2015	FINAL REVIEW SUBMITTAL
CEH	ALP/ANN	JAN. 29, 2015	PRELIMINARY PLAN SUBMITTAL
CHECKED	DRAWN	DATE	DESCRIPTION

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PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48107-8647  
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
GEDES AVENUE IMPROVEMENTS  
REMOVALS  
STA. 7+32 (P.O.B.) TO STA. 26+50  
SCALE PLAN: 1"=40'  
DRAWING No. REM-01  
SHEET No.



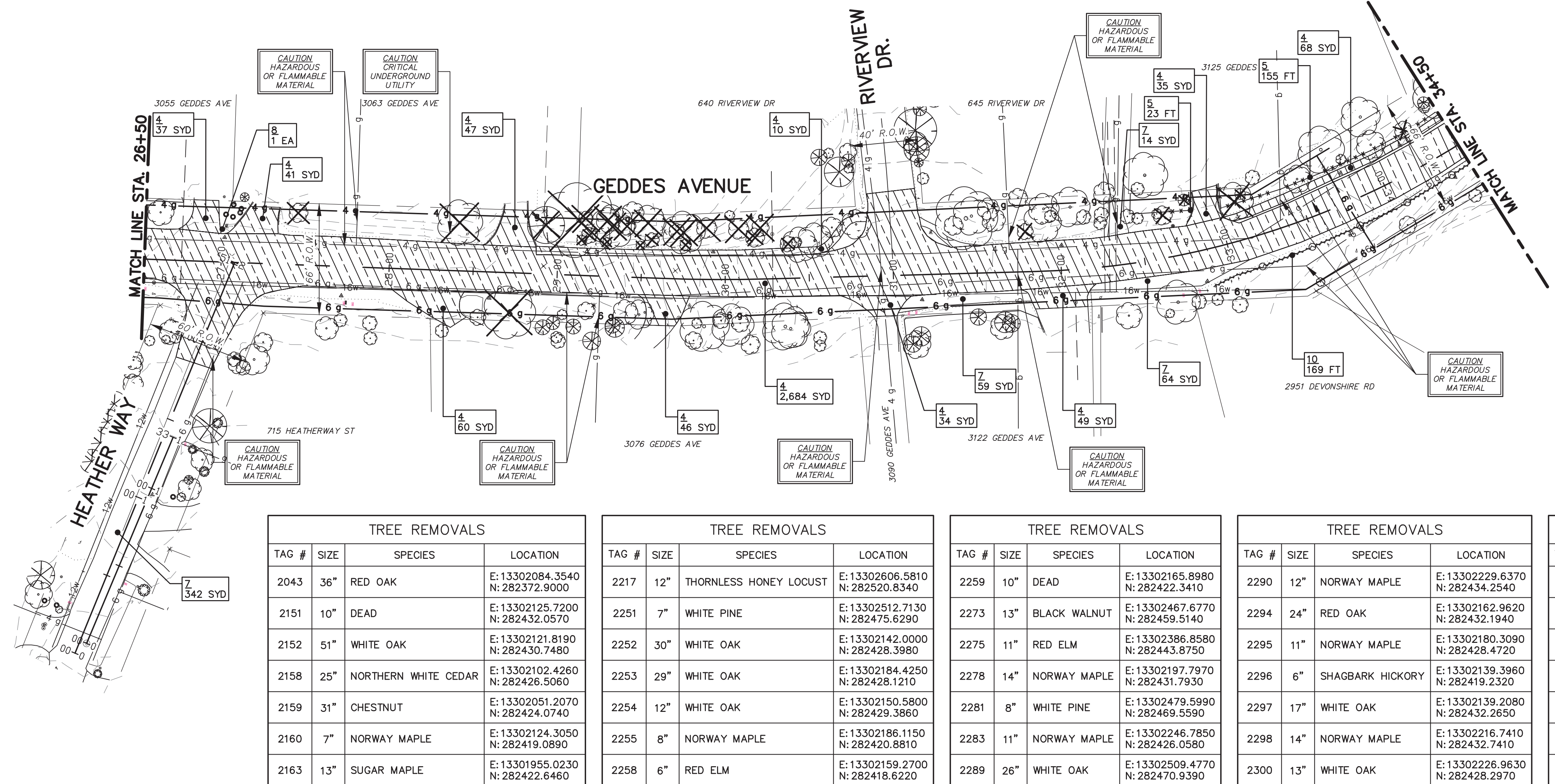
TREE REMOVALS			
TAG #	SIZE	SPECIES	LOCATION
2026	10"	BLACK WALNUT	E: 13300846.4110 N: 282323.9680
2034	8"	SUGAR MAPLE	E: 13300809.0060 N: 282322.1390
2035	19"	BLACK WALNUT	E: 13300807.2990 N: 282328.5640
2075	10"	BLACK WALNUT	E: 13301011.1750 N: 282329.9900
2150	9"	BLACK WALNUT	E: 13301385.4520 N: 282392.1340
2155	8"	REDBUD	E: 13301390.2850 N: 282396.4860
2170	9"	SLIPPERY ELM	E: 13301804.8090 N: 282411.2660
2172	12"	RED OAK	E: 13301786.6530 N: 282410.0120
2175	11"	BLACK WALNUT	E: 13301682.4560 N: 282406.2790
2195	22"	BLACK OAK	E: 13301680.9220 N: 282411.9400

TREE REMOVALS			
TAG #	SIZE	SPECIES	LOCATION
2196	25"	RED OAK	E: 13301679.2800 N: 282412.8930
2394	10"	RED OAK	E: 13301745.9210 N: 282368.6900
2395	10"	SLIPPERY ELM	E: 13301783.8120 N: 282369.1880
2397	33"	HICKORY	E: 13301761.1940 N: 282366.4620
2398	14"	SLIPPERY ELM	E: 13301782.5470 N: 282369.3310
2409	8"	SLIPPERY ELM	E: 13300537.1100 N: 282393.9100
2412	8"	SLIPPERY ELM	E: 13300520.3040 N: 282395.9320
2420	22"	BLACK WALNUT	E: 13300726.2500 N: 282328.5740
2428	12"	BLACK WALNUT	E: 13300747.4020 N: 282325.5420
2429	18"	RED OAK	E: 13300740.3320 N: 282328.8180

TREE REMOVALS			
TAG #	SIZE	SPECIES	LOCATION
2442	12"	BLACK WALNUT	E: 13300649.2450 N: 282333.1070
2443	17"	BLACK WALNUT	E: 13300630.6900 N: 282336.7810
2451	19"	BLACK WALNUT	E: 13300770.6440 N: 282329.4470
2460	7"	BLACK WALNUT	E: 13300787.6430 N: 282324.8870
2467	11"	SLIPPERY ELM	E: 13300632.6930 N: 282381.9270
5285	36"	WALNUT	E: 13300153.0590 N: 282462.5235
5654	16"	WALNUT	E: 13300101.7313 N: 282481.0087
5669	12"	RED BUD	E: 13300046.9871 N: 282499.3187
5864	18"	POPLAR	E: 13301646.2179 N: 282405.4129
5865	10"	ELM	E: 13301591.5762 N: 282401.9479

CONSTRUCTION KEY	
1	REMOVE CONCRETE CURB AND GUTTER
2	REM SIDEWALK
3	REMOVE CONCRETE DRIVE
4	REMOVE EXISTING HMA PAVEMENT ANY THICKNESS, SAWCUT FULL DEPTH AT REMOVAL LIMITS
5	REMOVE FENCE
6	RELOCATE BY OWNER
7	REMOVE EXISTING GRAVEL - ANY THICKNESS, (INCLUDED IN WORK ITEM "MACHINE GRADING, MODIFIED, ___")
8	REMOVE DRAINAGE STRUCTURE
9	REMOVE CULVERT
10	REMOVE SEWER, ANY SIZE

UPDATED TREE REMOVAL TABLES.



TREE REMOVALS			
TAG #	SIZE	SPECIES	LOCATION
2043	36"	RED OAK	E:13302084.3540 N:282372.9000
2151	10"	DEAD	E:13302125.7200 N:282432.0570
2152	51"	WHITE OAK	E:13302121.8190 N:282430.7480
2158	25"	NORTHERN WHITE CEDAR	E:13302102.4260 N:282426.5060
2159	31"	CHESTNUT	E:13302051.2070 N:282424.0740
2160	7"	NORWAY MAPLE	E:13302124.3050 N:282419.0890
2163	13"	SUGAR MAPLE	E:13301955.0230 N:282422.6460

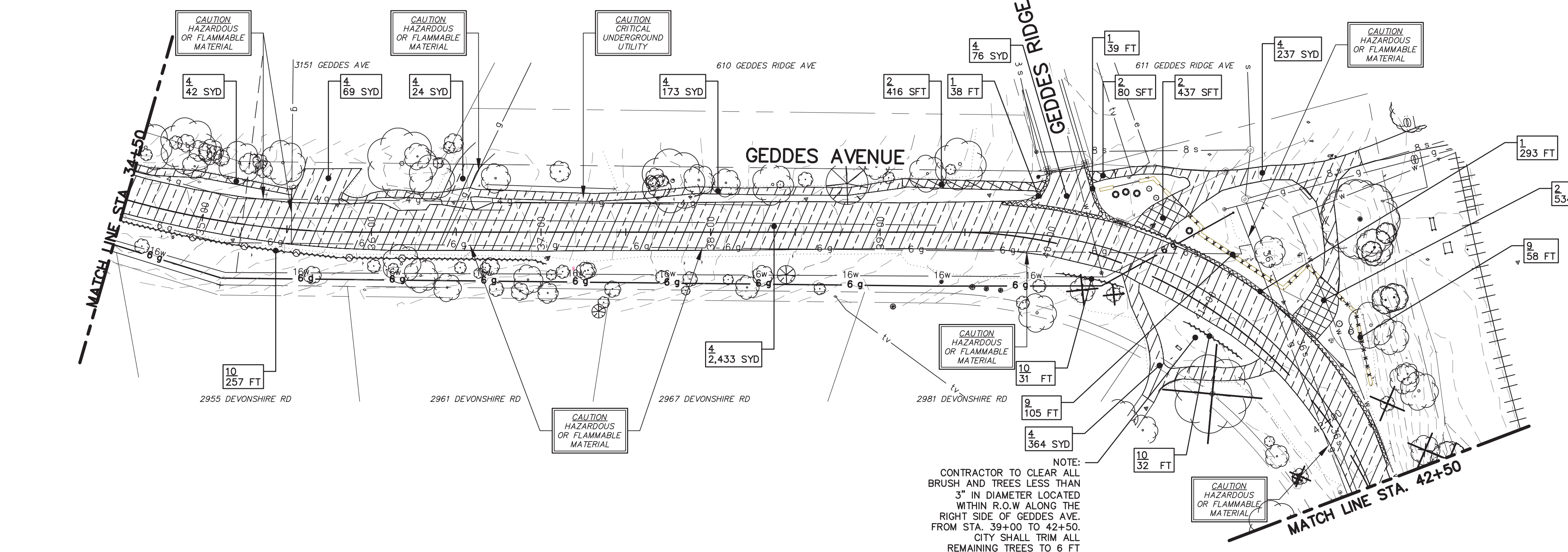
TREE REMOVALS			
TAG #	SIZE	SPECIES	LOCATION
2217	12"	THORNLESS HONEY LOCUST	E:13302606.5810 N:282520.8340
2251	7"	WHITE PINE	E:13302512.7130 N:282475.6290
2252	30"	WHITE OAK	E:13302142.0000 N:282443.3980
2253	29"	WHITE OAK	E:13302184.4250 N:282428.1210
2254	12"	WHITE OAK	E:13302150.5800 N:282429.3860
2255	8"	NORWAY MAPLE	E:13302186.1150 N:282420.8810
2258	6"	RED ELM	E:13302159.2700 N:282418.6220

TREE REMOVALS			
TAG #	SIZE	SPECIES	LOCATION
2259	10"	DEAD	E:13302165.8980 N:282422.3410
2273	13"	BLACK WALNUT	E:13302467.6770 N:282459.5140
2275	11"	RED ELM	E:13302386.8580 N:282443.8750
2278	14"	NORWAY MAPLE	E:13302197.7970 N:282431.7930
2281	8"	WHITE PINE	E:13302479.5990 N:282469.5590
2283	11"	NORWAY MAPLE	E:13302246.7850 N:282426.0580
2289	26"	WHITE OAK	E:13302509.4770 N:282470.9390

TREE REMOVALS			
TAG #	SIZE	SPECIES	LOCATION
2290	12"	NORWAY MAPLE	E:13302229.6370 N:282434.2540
2294	24"	RED OAK	E:13302162.9620 N:282432.1940
2295	11"	NORWAY MAPLE	E:13302180.3090 N:282428.4720
2296	6"	SHAGBARK HICKORY	E:13302139.3960 N:282419.2320
2297	17"	WHITE OAK	E:13302139.2080 N:282432.2650
2298	14"	NORWAY MAPLE	E:13302216.7410 N:282432.7410
2300	13"	WHITE OAK	E:13302226.9630 N:282428.2970

TREE REMOVALS			
TAG #	SIZE	SPECIES	LOCATION
2794	20"	BOX ELDER	E:13303227.5540 N:283032.8090
2819	11"	NORWAY MAPLE	E:13303194.8620 N:282965.0850
2833	7"	RED OAK	E:13303194.8780 N:282962.7800
2846	53"	WILD CRAB APPLE	E:13303124.6170 N:282953.7300
2848	17"	BLACK WALNUT	E:13303029.2170 N:282930.5210
2851	10"	PIGNUT HICKORY	E:13303042.7220 N:282943.5170
2882	10"	BOX ELDER	E:13303192.2090 N:283031.9940

1 UPDATED TREE REMOVAL TABLES.



NOTE:  
CONTRACTOR TO CLEAR ALL BRUSH AND TREES LESS THAN 3" IN DIAMETER LOCATED WITHIN R.O.W ALONG THE RIGHT SIDE OF GEDDES AVE. FROM STA. 39+00 TO 42+50. CITY SHALL TRIM ALL REMAINING TREES TO 6 FT UNDER CLEARANCE. COORDINATION WITH CITY AND CLEARING INCLUDED IN MACHINE GRADING, MODIFIED.

CONSTRUCTION KEY	
1	REMOVE CONCRETE CURB AND GUTTER
2	REMOVE SIDEWALK
3	REMOVE CONCRETE DRIVE
4	REMOVE EXISTING HMA PAVEMENT - ANY THICKNESS, SAWCUT FULL DEPTH AT REMOVAL LIMITS (INCLUDES HMA CURB)
5	REMOVE FENCE
6	RELOCATE BY OWNER
7	REMOVE EXISTING GRAVEL - ANY THICKNESS, (INCLUDED IN WORK ITEM "MACHINE GRADING, MODIFIED, ___")
8	
9	REMOVE DECORATIVE WALL
10	REMOVE GUARDRAIL

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
 GEDDES AVENUE IMPROVEMENTS  
 REMOVALS  
 GEDDES AVENUE STA. 26+50 TO STA. 42+50  
 PATH STA. 1+00 TO 6+04

26 OF 187  
 ADD1-Sheet 6

SCALE PLAN: 1"=40'  
 DRAWING No. REM-02  
 SHEET No.

ANN ARBOR PUBLIC SERVICES  
 301 EAST HURON STREET  
 ANN ARBOR, MI 48107-8647  
 www.a2gov.org

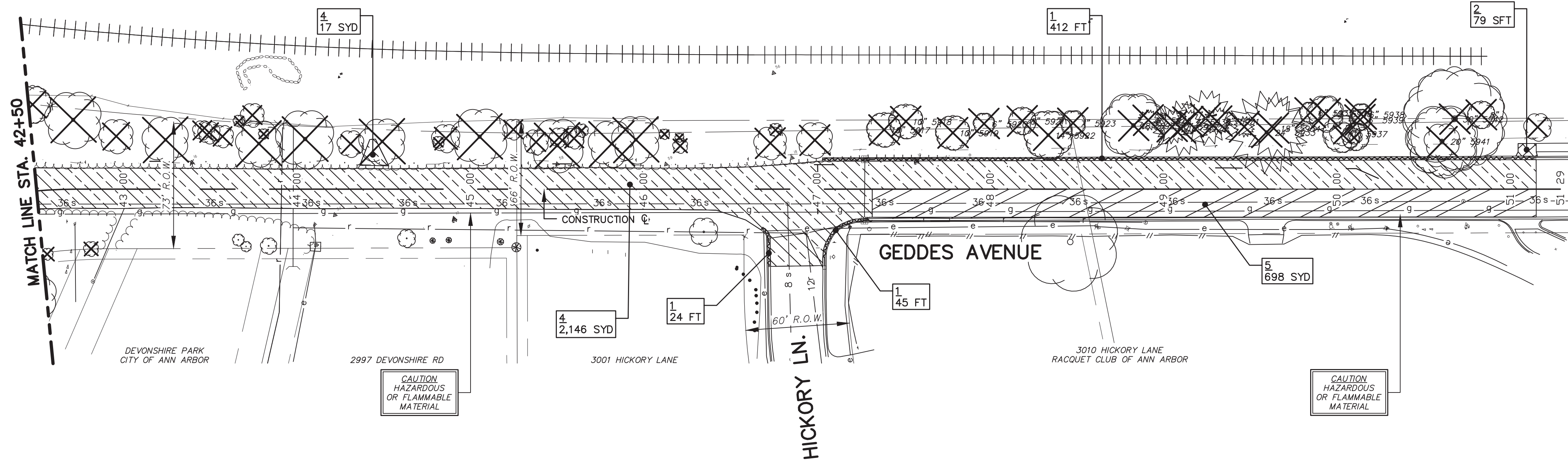
ADDENDUM No. 1  
 ISSUED FOR BIDS  
 FINAL PLAN SUBMITTAL  
 FINAL REVIEW SUBMITTAL  
 PRELIMINARY PLAN SUBMITTAL

REV. DESCRIPTION DATE  
 MAY 13, 2015  
 APR. 22, 2015  
 MAR. 26, 2015  
 MAR. 13, 2015  
 JAN. 29, 2015

CEH  
 ALP/ANN  
 ALP/ANN  
 ALP/ANN  
 ALP/ANN  
 ALP/ANN

CHECKED  
 DRAWN  
 DATE

811  
 Know what's below.  
 Call before you dig.



1 UPDATED TREE REMOVAL TABLES.

TREE REMOVALS			
TAG #	SIZE	SPECIES	LOCATION
2744	38"	Box Elder	E:13303482.2690 N:282948.4690
2747	16"	Red Elm	E:13303360.3490 N:282998.0970
2753	9"	White Oak	E:13303539.6890 N:282934.9580
2754	6"	Box Elder	E:13303592.4960 N:282914.7590
2755	14"	White Oak	E:13303502.1180 N:282946.8660
2791	39"	Box Elder	E:13303385.4960 N:282976.1970
2792	13"	White Oak	E:13303330.2020 N:282998.1490
2798	7"	Black Walnut	E:13303363.4410 N:282985.8900
2799	8"	Red Elm	E:13303352.0280 N:282997.1500
2817	10"	Red Oak	E:13303248.9970 N:282951.1270
2830	8"	Red Oak	E:13303223.9130 N:282955.4950
2872	38"	Red Oak	E:13303260.5870 N:283025.3290
2874	23"	Red Oak	E:13303281.6210 N:283009.1030
2875	15"	Box Elder	E:13303333.4970 N:282995.7180
2876	15"	Dead	E:13303340.2800 N:282991.3650
2877	31"	Black Locust	E:13303359.2550 N:282981.3530

TREE REMOVALS			
TAG #	SIZE	SPECIES	LOCATION
2878	18"	Box Elder	E:13303409.8570 N:282965.9910
2879	31"	Box Elder	E:13303427.6870 N:282962.0040
2883	31"	Box Elder	E:13303308.2620 N:282998.9540
2884	36"	Dead	E:13303523.7190 N:282930.7640
2885	22"	White Oak	E:13303641.8320 N:282896.6550
2886	9"	White Oak	E:13303646.8290 N:282903.0600
2887	24"	Dead	E:13303666.8900 N:282890.9250
2888	32"	Box Elder	E:13303568.1030 N:282920.8640
2889	10"	Box Elder	E:13303591.5900 N:282910.1330
2890	7"	Box Elder	E:13303584.8190 N:282919.1670
2891	31"	Box Elder	E:13303554.0650 N:282922.6570
2894	14"	Box Elder	E:13303534.1430 N:282931.8760
2895	13"	Box Elder	E:13303526.1130 N:282934.8940
2896	17"	Shagbark Hickory	E:13303512.5180 N:282936.1480
2897	19"	Box Elder	E:13303463.3770 N:282953.1590
2898	8"	Box Elder	E:13303458.5240 N:282952.2990

TREE REMOVALS			
TAG #	SIZE	SPECIES	LOCATION
5550	8"	ELM	E:13303965.2804 N:282802.6966
5552	16"	LOCUST	E:13304068.3931 N:282778.0145
5916	11'		E:13303240.6693 N:283040.4974
5917	10"		E:13303706.9172 N:282885.1242
5918	10"		E:13303720.2946 N:282886.1080
5919	10"		E:13303744.3350 N:282872.0496
5920	6"		E:13303763.0776 N:282871.8789
5921	8"		E:13303784.7489 N:282867.0186
5922	14"		E:13303796.7154 N:282854.9090
5923	7"		E:13303812.3469 N:282857.4673
5925	18"		E:13303845.3498 N:282846.0208
5926	6"		E:13303854.4661 N:282846.5893
5927	10"		E:13303866.4295 N:282839.0940
5928	16"		E:13303870.8365 N:282836.7064
5929	16"		E:13303886.4047 N:282838.3153
5930	7"		E:13303876.0889 N:282839.0842

TREE REMOVALS			
TAG #	SIZE	SPECIES	LOCATION
5931	8"		E:13303892.1214 N:282834.5309
5932	6"		E:13303906.3617 N:282826.9673
5933	24"		E:13303917.7659 N:282820.2273
5934	18"		E:13303922.3226 N:282821.2724
5935	6"		E:13303945.1125 N:282823.8044
5936	10"		E:13303953.3407 N:282820.7061
5937	11"		E:13303958.8949 N:282806.9944
5938	6"		E:13303972.9876 N:282814.4331
5939	6"		E:13303971.5241 N:282811.5768
5940	8"		E:13304039.2955 N:282794.1586
5941	20"		E:13304013.2287 N:282786.1026
5942	30"		E:13304023.9084 N:282796.3642
21461	12"	Stump	E:13303357.2360 N:282987.5430

CONSTRUCTION KEY	
1	REMOVE CONCRETE CURB AND GUTTER
2	REMOVE SIDEWALK
3	REMOVE CONCRETE DRIVE
4	REMOVE EXISTING HMA PAVEMENT - ANY THICKNESS, SAWCUT FULL DEPTH AT REMOVAL LIMITS
5	COLD MILLING HMA SURFACE (2")
6	RELOCATE BY OWNER
7	REMOVE EXISTING GRAVEL - ANY THICKNESS, (INCLUDED IN WORK ITEM "MACHINE GRADING, MODIFIED, ___")

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

SCALE PLAN: 1"=40' PROFILE: 1"=4'

DRAWING No. REM-03

SHEET No.

27 OF 187  
ADD1-Sheet 7

GEDDES AVENUE IMPROVEMENTS

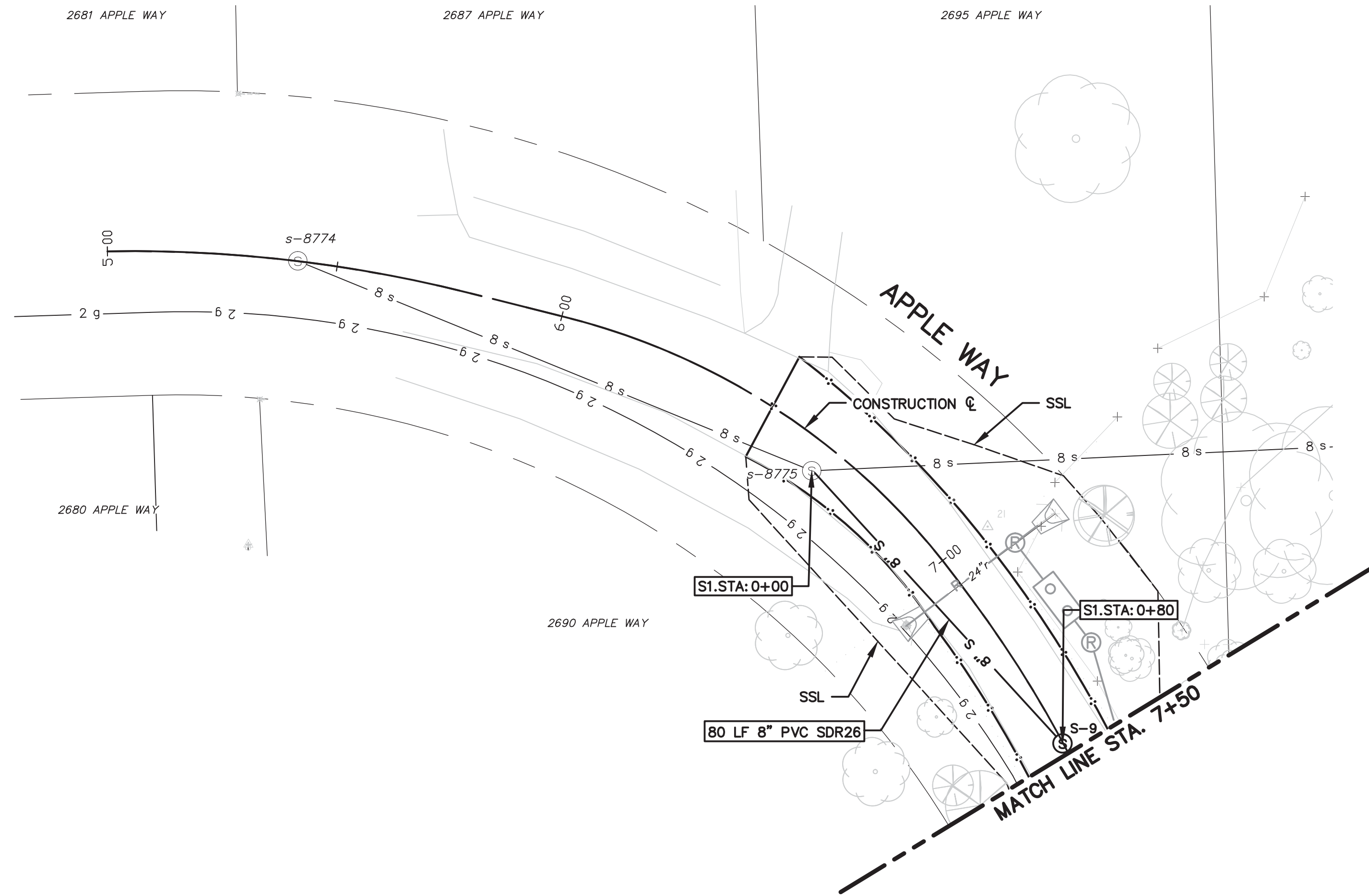
REMOVALS

STA. 42+50 TO STA. 51+33 (P.O.E.)

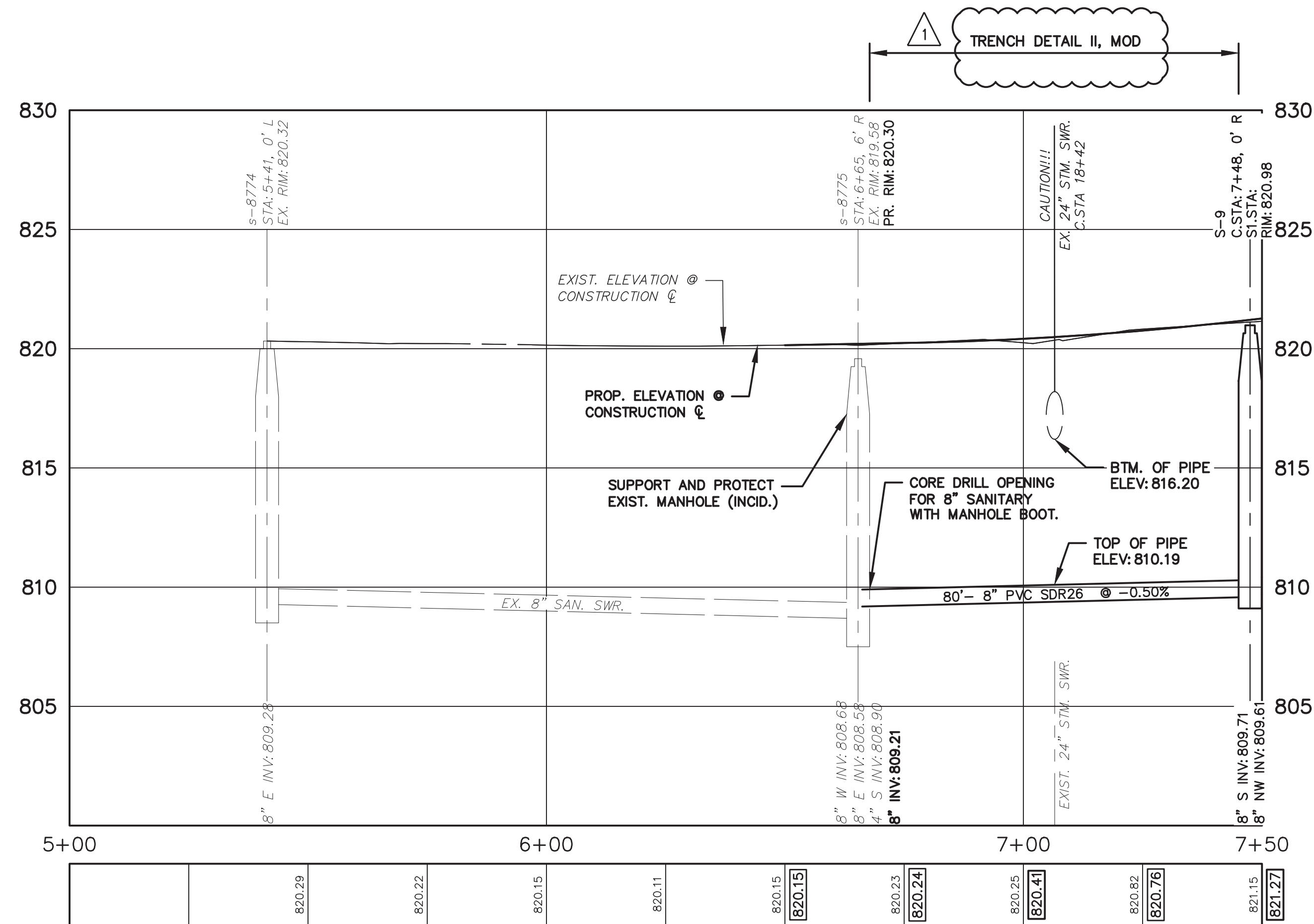
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PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48107-8647  
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REV.	DESCRIPTION	DATE	DRAWN	CHECKED
1	PRELIMINARY PLAN SUBMITTAL	JAN. 29, 2015	ALP/ANN	CEH
2	FINAL REVIEW SUBMITTAL	MAR. 13, 2015	ALP/ANN	CEH
3	FINAL PLAN SUBMITTAL	MAR. 26, 2015	ALP/ANN	CEH
4	ISSUED FOR BIDS	APR. 22, 2015	ALP/ANN	CEH
5	ADDENDUM No. 1	MAY 13, 2015	ALP/ANN	CEH

Know what's below.  
Call before you dig.



SANITARY SEWER STRUCTURE TABLE							
STRUCTURE	STATION	SEWER STATION	RIM ELEV.	INVERTS	DEPTH	DIA.	APPL./CONST.
s-8774	5+41	N/A	820.32	8" E 809.28	11.32	48	SD-S-1 EX. M.H.
s-8775	6+65	S1 0+00	819.58	8" W 808.68 8" E 808.58 4" S 808.90	11.58	48	EX. M.H./SWR. TAP
S-9	7+48	S1 0+80	820.98	8" S 809.71 8" NW 809.61	11.37	48	NEW M.H.



**SANITARY SEWER NOTES:**

1. NEW SANITARY SEWER SHALL CONSIST OF ASTM D3034 SOLID WALL PVC SDR26 PIPE WITH WATER-TIGHT GASKETED JOINTS, CLASS B STONE BEDDING (UP TO 12" ABOVE TOP OF PIPE) AND COMPACTED SAND BACKFILL. DEFLECTION OF PVC PIPE AFTER INSTALLATION AND BACKFILL SHALL NOT EXCEED 5.0% OF THE PIPE DIAMETER.
2. MANUFACTURED TEES SHALL BE USED AT ALL SERVICE CONNECTIONS WITH RISERS AND MANUFACTURED WYES SHALL BE USED AT ALL SERVICE CONNECTIONS WITHOUT RISERS.
3. NEW SANITARY SERVICES SHALL CONSIST OF PVC SDR23.5 PIPE WITH WATER-TIGHT GASKETED JOINTS, STONE BEDDING AND BACKFILLED WITH COMPACTED SAND BACKFILL.
4. TERMINATE NEW SANITARY SERVICES WITH A WATER-TIGHT PLUG AND 2" x 2" HARDWOOD MARKER AS REQUIRED BY SPECIFICATIONS.
5. PROVIDE EARTH RESTRAINT AND TRENCH SUPPORT AS NEEDED TO PROTECT ADJOINING UTILITIES AND STRUCTURES FROM SETTLEMENT OR DAMAGE DURING CONSTRUCTION.
6. PROVIDE ALL NECESSARY SUPPORT TO PROTECT UTILITIES CROSSING THE TRENCH DURING CONSTRUCTION. METHODS OF SUPPORT SHALL BE APPROVED BY UTILITY OWNER.
7. PROVIDE DEWATERING AS NEEDED TO MAINTAIN DRY AND STABLE TRENCH BOTTOM (INCIDENTAL TO PIPE BEING INSTALLED).



DATE	DESCRIPTION	DRWN	CHEK
MAY 13, 2015	ALP/ANN	CEH	CHEK
APR. 22, 2015	ALP/ANN	CEH	CHEK
MAR. 26, 2015	ALP/ANN	CEH	CHEK
MAR. 13, 2015	ALP/ANN	CEH	CHEK
JAN. 29, 2015	ALP/ANN	CEH	CHEK

ADDENDUM No. 1  
ISSUED FOR BIDS  
FINAL PLAN SUBMITTAL  
FINAL REVIEW SUBMITTAL  
PRELIMINARY PLAN SUBMITTAL

CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
SCALE  
DRAWING No. SAN-13  
GEDDES AVENUE IMPROVEMENTS  
SANITARY SEWER PLAN AND PROFILE  
APPLE WAY CONSTRUCTION STA. 5+00 TO STA. 7+50





REV.	DESCRIPTION	DATE	DRAWN	CHECKED
MAY 13, 2015	ALP/ANN	CEH		
APR. 22, 2015	ALP/ANN	CEH		
MAR. 26, 2015	ALP/ANN	CEH		
MAR. 13, 2015	ALP/ANN	CEH		
JAN. 29, 2015	ALP/ANN	CEH		

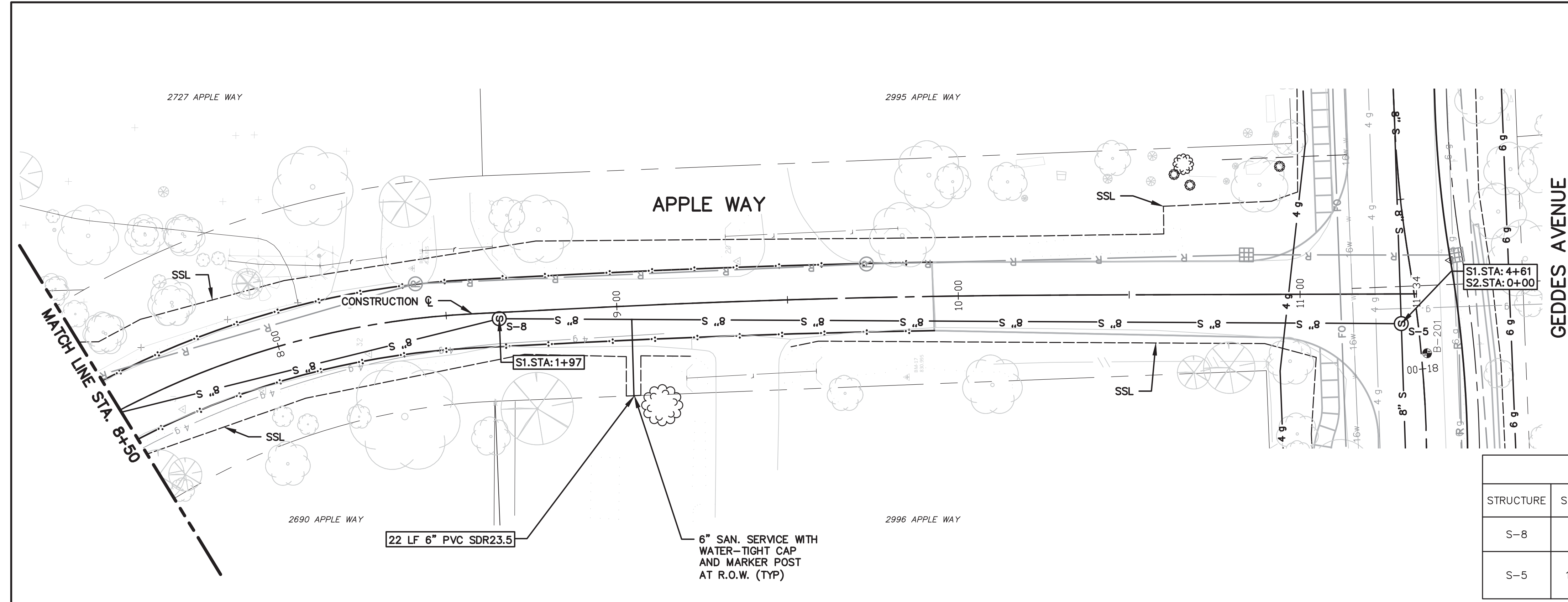
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 ISSUED FOR BIDS  
 FINAL PLAN SUBMITTAL  
 FINAL REVIEW SUBMITTAL  
 PRELIMINARY PLAN SUBMITTAL



CITY OF ANN ARBOR  
 PUBLIC SERVICES  
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 www.a2gov.org

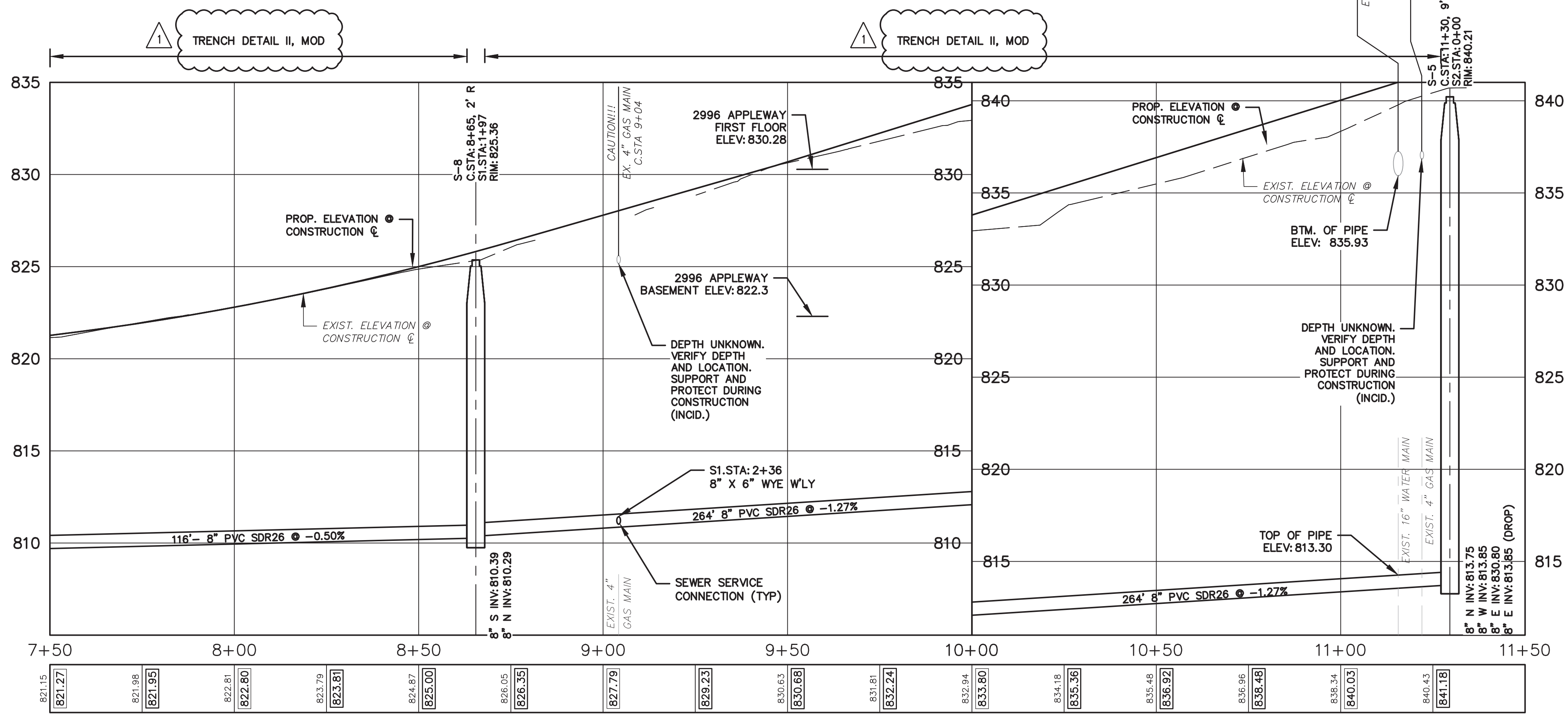
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
 GEDES AVENUE IMPROVEMENTS  
 SANITARY SEWER PLAN AND PROFILE  
 APPLE WAY CONSTRUCTION STA. 7+50 TO STA. 11+34 (P.O.E.)

SCALE  
 DRAWING No. SAN-14

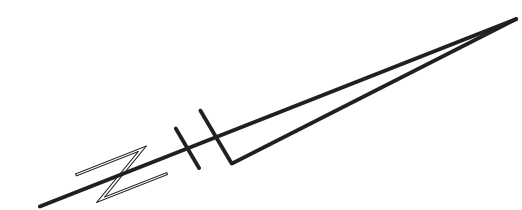
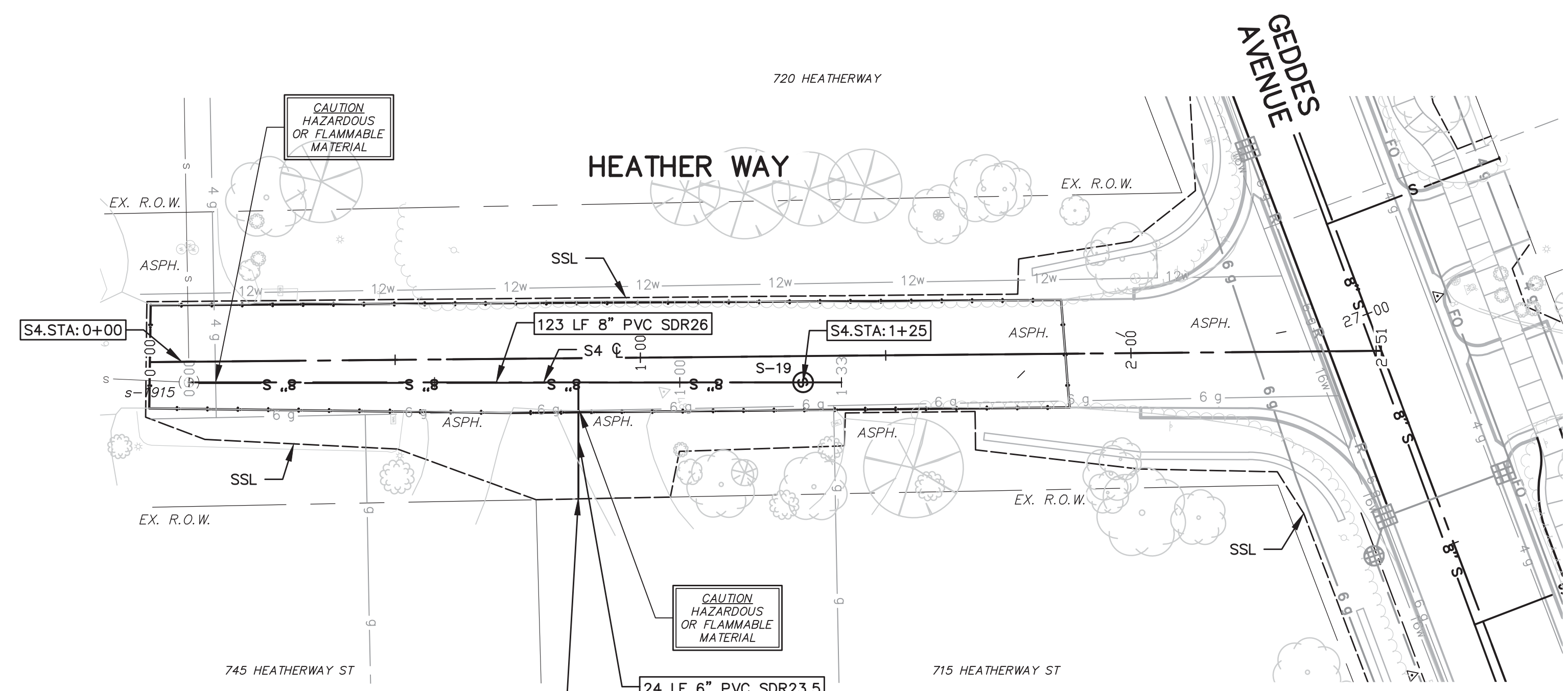


STRUCTURE	STATION	SEWER STATION	RIM ELEV.	INVERTS	DEPTH	DIA.	DETAIL	APPL./CONST.
S-8	8+65	S1 1+97	825.36	8" S 810.39 8" N 810.29	15.11	48	SD-S-1	NEW M.H.
S-5	11+30	S1 4+61 S2 0+00	840.21	8" N 813.75 8" W 813.85 8" E 830.80	26.46	48	SD-S-1	NEW M.H.

ADDRESS	LEAD ELEV. AT R.O.W.	SEWER STATION	SIZE (INCHES)	LENGTH (FT)	SLOPE	D/S M.H.	DIST. FROM D/S M.H.	RISER HEIGHT	CONNECT. TYPE
2996 APPLE WAY	816.30	S1 2+36	6	22	1.00%	S-8	39	5.5	TEE

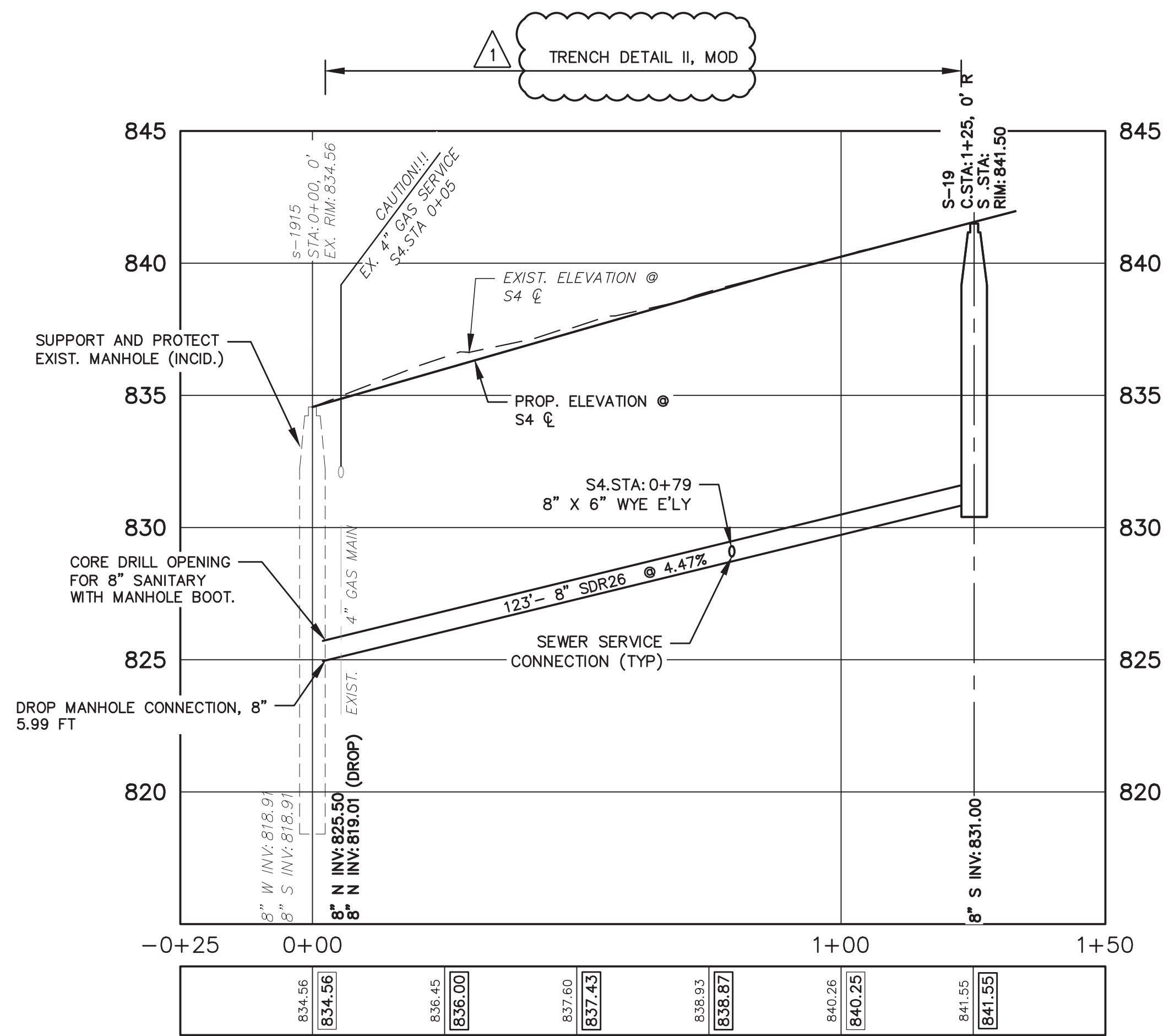


- SANITARY SEWER NOTES:**
1. NEW SANITARY SEWER SHALL CONSIST OF ASTM D3034 SOLID WALL PVC SDR26 PIPE WITH WATER-TIGHT GASKETED JOINTS, CLASS B STONE BEDDING (UP TO 12" ABOVE TOP OF PIPE) AND COMPACTED SAND BACKFILL. DEFLECTION OF PVC PIPE AFTER INSTALLATION AND BACKFILL SHALL NOT EXCEED 5.0% OF THE PIPE DIAMETER.
  2. MANUFACTURED TEES SHALL BE USED AT ALL SERVICE CONNECTIONS WITH RISERS AND MANUFACTURED WYES SHALL BE USED AT ALL SERVICE CONNECTIONS WITHOUT RISERS.
  3. NEW SANITARY SERVICES SHALL CONSIST OF PVC SDR23.5 PIPE WITH WATER-TIGHT GASKETED JOINTS, STONE BEDDING AND BACKFILLED WITH COMPACTED SAND BACKFILL.
  4. TERMINATE NEW SANITARY SERVICES WITH A WATER-TIGHT PLUG AND 2" x 2" HARDWOOD MARKER AS REQUIRED BY SPECIFICATIONS.
  5. PROVIDE EARTH RESTRAINT AND TRENCH SUPPORT AS NEEDED TO PROTECT ADJOINING UTILITIES AND STRUCTURES FROM SETTLEMENT OR DAMAGE DURING CONSTRUCTION.
  6. PROVIDE ALL NECESSARY SUPPORT TO PROTECT UTILITIES CROSSING THE TRENCH DURING CONSTRUCTION. METHODS OF SUPPORT SHALL BE APPROVED BY UTILITY OWNER.
  7. PROVIDE DEWATERING AS NEEDED TO MAINTAIN DRY AND STABLE TRENCH BOTTOM (INCIDENTAL TO PIPE BEING INSTALLED).




ADDRESS	GROUND ELEV. AT R.O.W.	SEWER STATION	SIZE (INCHES)	LENGTH (FT)	SLOPE	D/S M.H.	DIST. FROM D/S M.H.	RISER HEIGHT	CONNECT. TYPE
715 HEATHER WAY	830.60	S4 0+79	6	24	1.50%	s-1915	79	1.6	TEE

STRUCTURE	CONST. STATION	SEWER STATION	RIM ELEV.	INVERTS	DEPTH	DIA.	DETAIL	APPLI/CONST.
s-1915	0+00	S4 0+00	834.56	8\"/>				




- SANITARY SEWER NOTES:**
1. NEW SANITARY SEWER SHALL CONSIST OF ASTM D3034 SOLID WALL PVC SDR26 PIPE WITH WATER-TIGHT GASKETED JOINTS, CLASS B STONE BEDDING (UP TO 12\"/>



Know what's below.  
Call before you dig.

ADDENDUM No. 1	ISSUED FOR BIDS	FINAL PLAN SUBMITTAL	FINAL REVIEW SUBMITTAL	PRELIMINARY PLAN SUBMITTAL	DESCRIPTION
MAY 13, 2015	APR. 22, 2015	MAR. 26, 2015	MAR. 13, 2015	JAN. 29, 2015	DATE
ALP/ANN	ALP/ANN	ALP/ANN	ALP/ANN	ALP/ANN	DRAWN
CEH	CEH	CEH	CEH	CEH	CHECKED

CITY OF ANN ARBOR  
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ANN ARBOR, MI 48107-8647  
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PROJECT MANAGEMENT – PUBLIC SERVICES – CITY OF ANN ARBOR  
GEDDES AVENUE IMPROVEMENTS  
SANITARY SEWER PLAN AND PROFILE  
HEATHER WAY S4 STA. 0+00 TO STA. 1+35

SCALE PLAN: 1"=20'  
PROFILE: 1"=4'

DRAWING No. SAN-14

SHEET No.

58 OF 187  
ADD1-Sheet 10

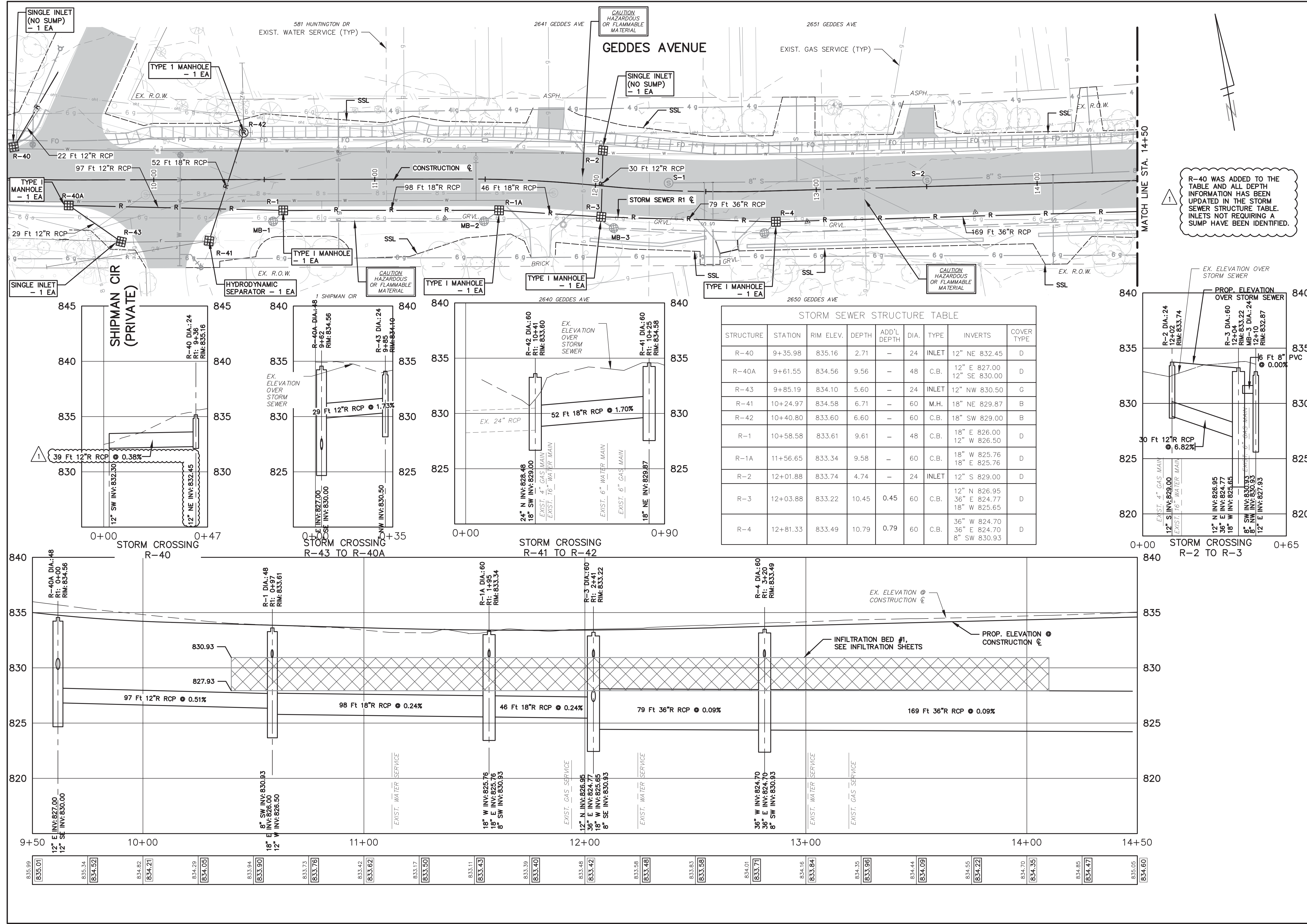


Know what's below. Call before you dig.

DATE	DESCRIPTION	REV.
MAY 13, 2015	ALP/ANN	CEH
APR. 22, 2015	ALP/ANN	CEH
MAR. 26, 2015	ALP/ANN	CEH
MAR. 13, 2015	ALP/ANN	CEH
JAN. 29, 2015	ALP/ANN	CEH
	DRANN	CHECKED

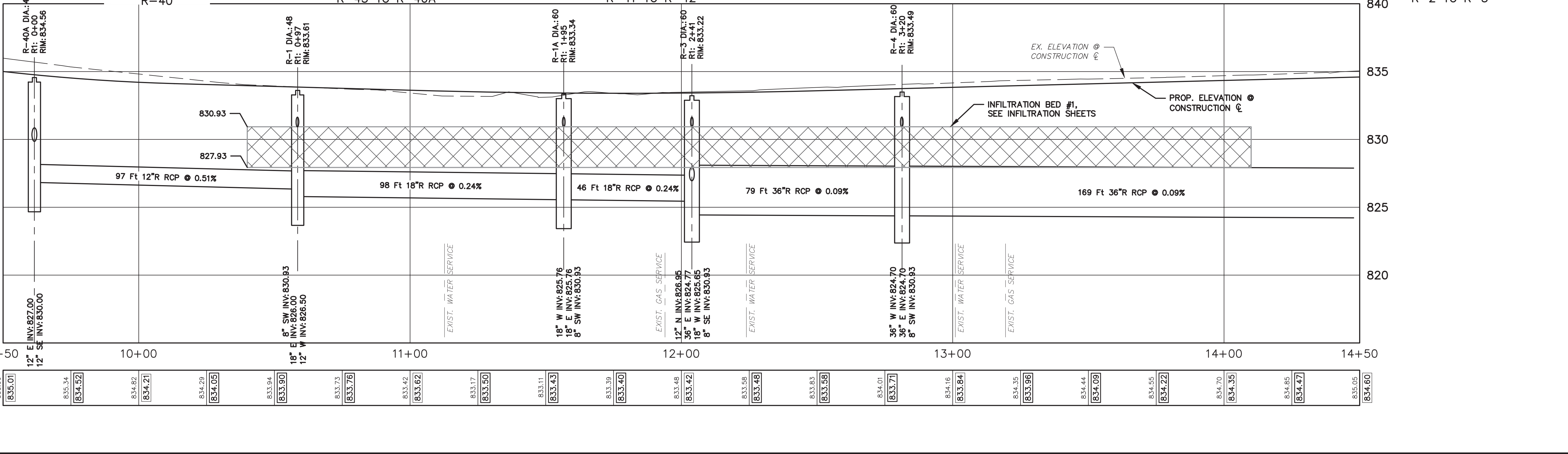
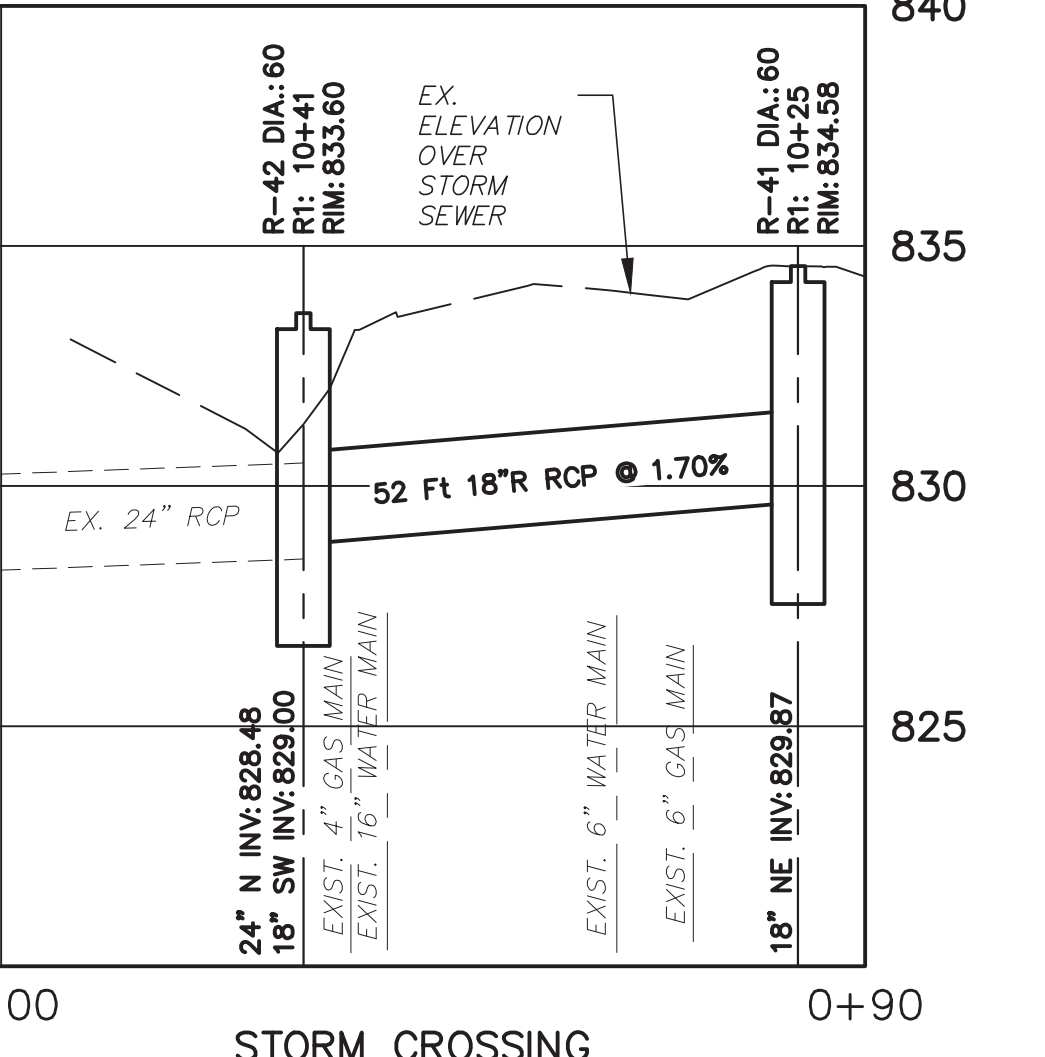
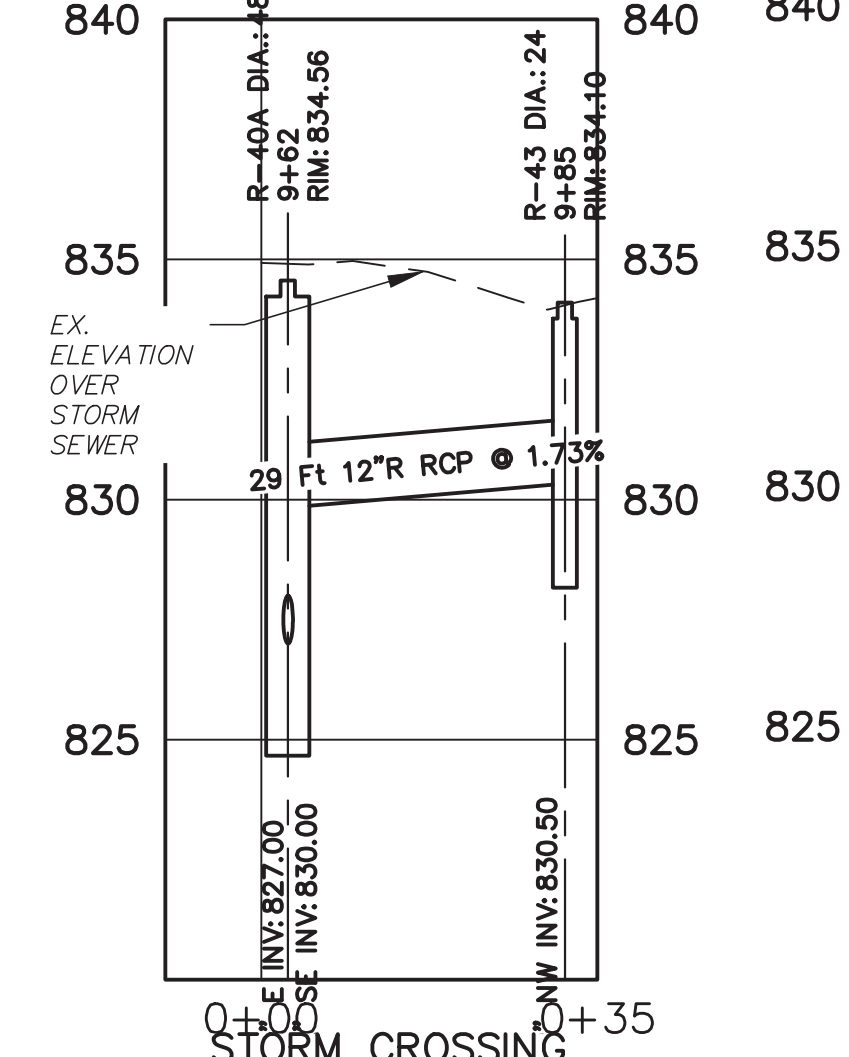
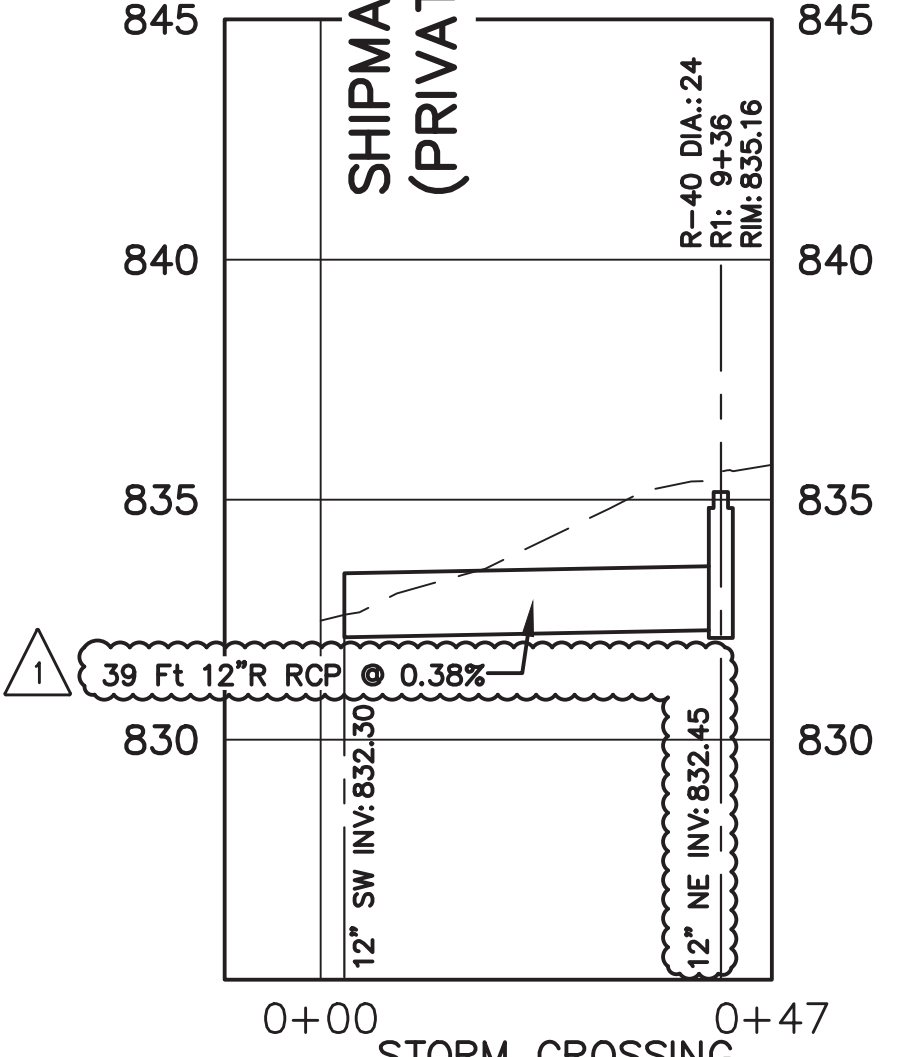
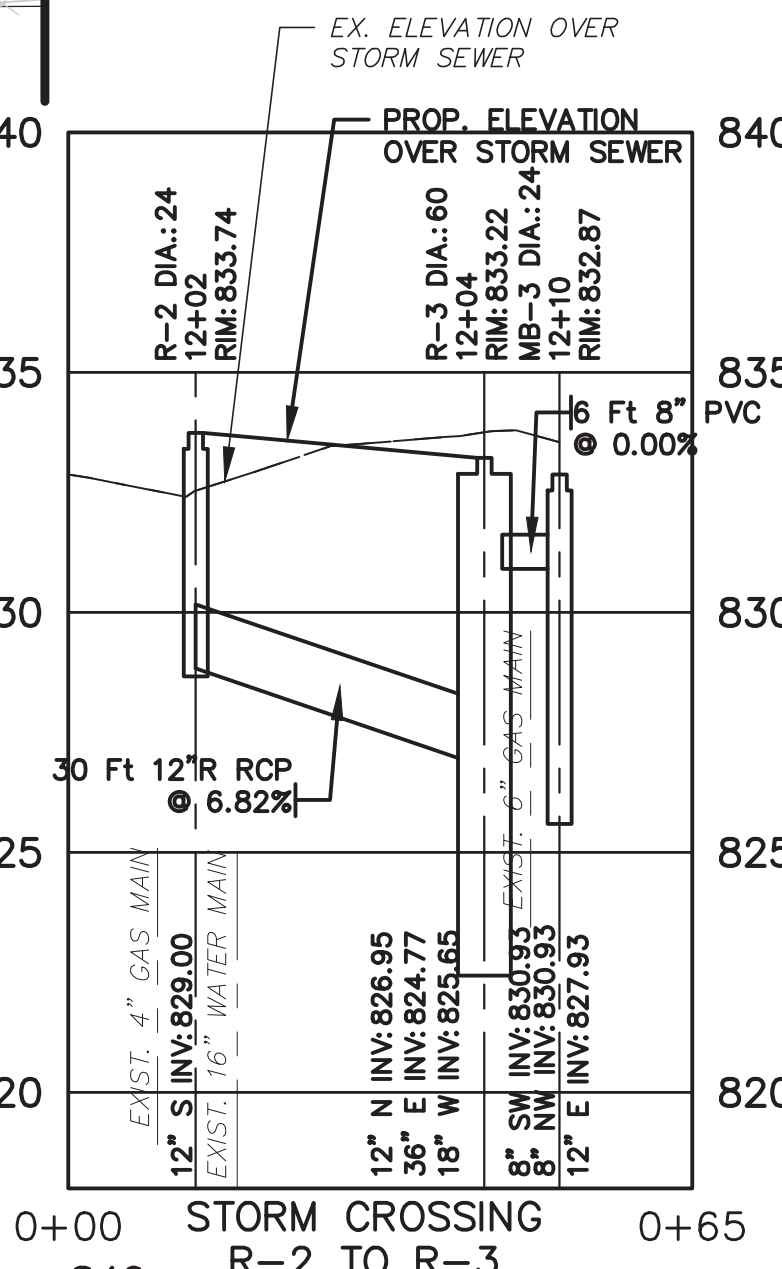
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
 GEDDES AVENUE IMPROVEMENTS  
 STORM SEWER PLAN AND PROFILE  
 ST. 10+00 TO STA. 14+50

SCALE PLAN: 1"=20'  
 PROFILE: 1"=4'  
 DRAWING No. STM-01  
 SHEET No.



R-40 WAS ADDED TO THE TABLE AND ALL DEPTH INFORMATION HAS BEEN UPDATED IN THE STORM SEWER STRUCTURE TABLE. INLETS NOT REQUIRING A SUMP HAVE BEEN IDENTIFIED.

STRUCTURE	STATION	RIM ELEV.	DEPTH	ADD'L DEPTH	DIA.	TYPE	INVERTS	COVER TYPE
R-40	9+35.98	835.16	2.71	-	24	INLET	12" NE 832.45	D
R-40A	9+61.55	834.56	9.56	-	48	C.B.	12" E 827.00 12" SE 830.00	D
R-43	9+85.19	834.10	5.60	-	24	INLET	12" NW 830.50	G
R-41	10+24.97	834.58	6.71	-	60	M.H.	18" NE 829.87	B
R-42	10+40.80	833.60	6.60	-	60	C.B.	18" SW 829.00	B
R-1	10+58.58	833.61	9.61	-	48	C.B.	18" E 826.00 12" W 826.50	D
R-1A	11+56.65	833.34	9.58	-	60	C.B.	18" W 825.76 18" E 825.76	D
R-2	12+01.88	833.74	4.74	-	24	INLET	12" S 829.00	D
R-3	12+03.88	833.22	10.45	0.45	60	C.B.	12" N 826.95 36" E 824.77 18" W 825.65	D
R-4	12+81.33	833.49	10.79	0.79	60	C.B.	36" W 824.70 36" E 824.70 8" SW 830.93	D





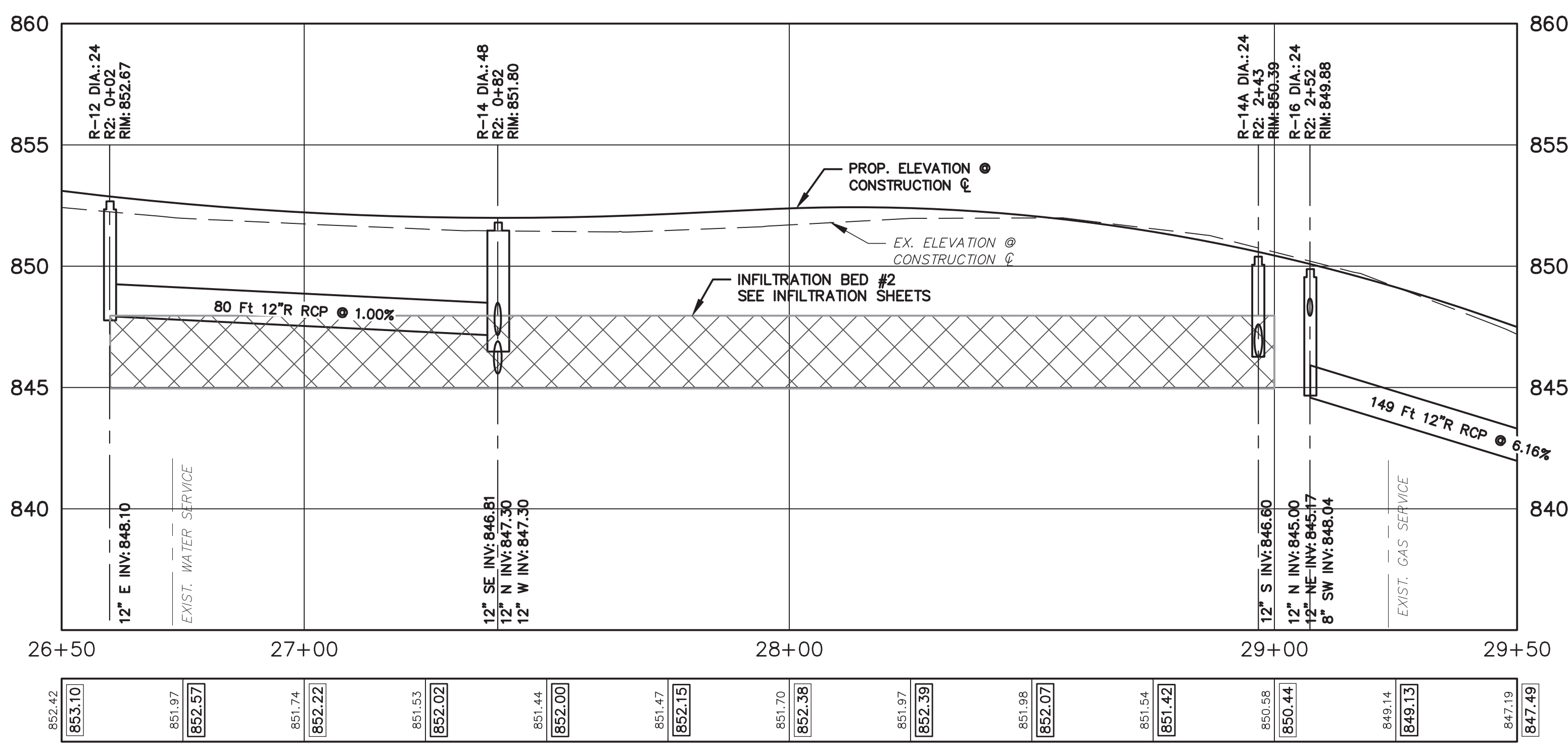
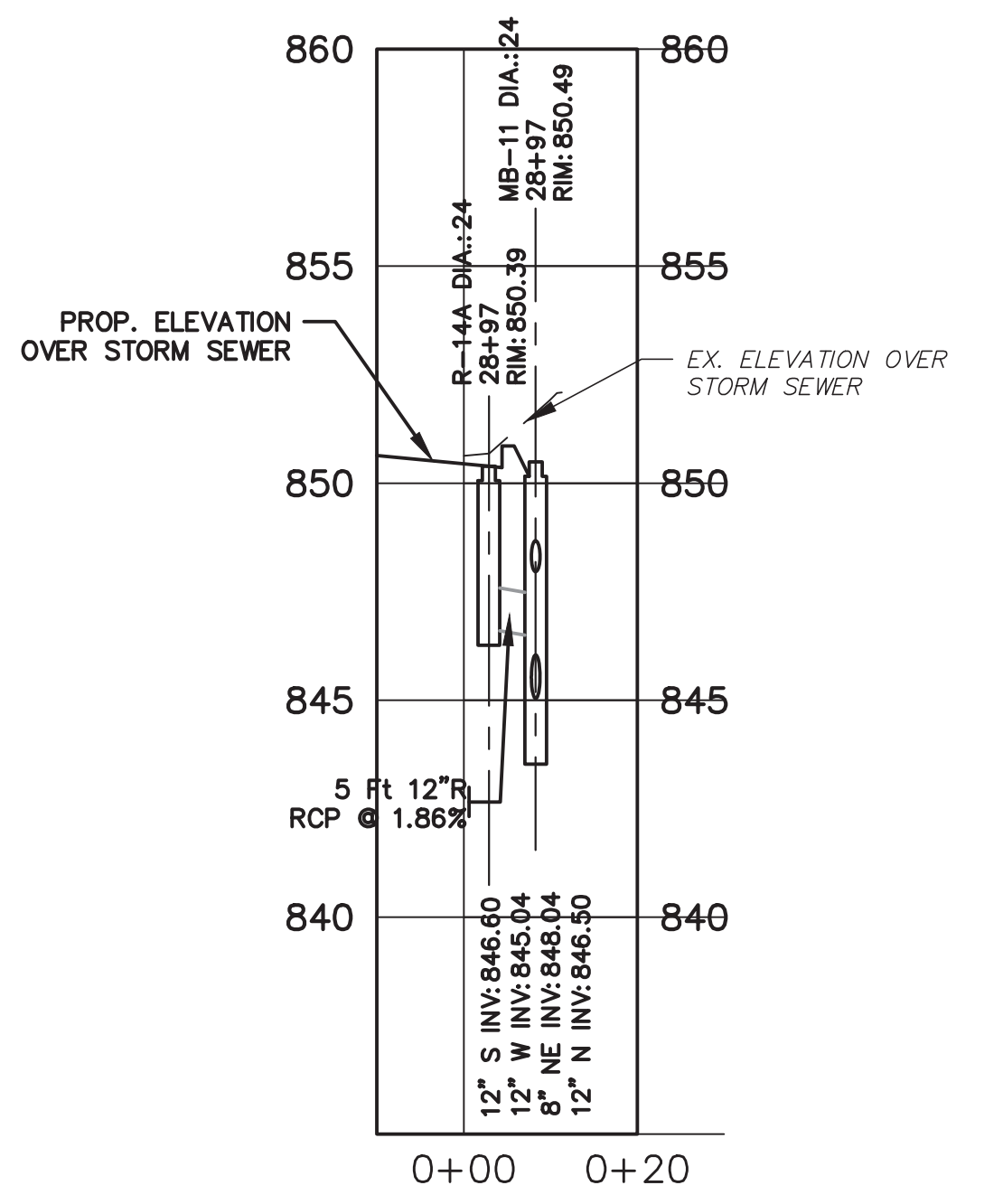
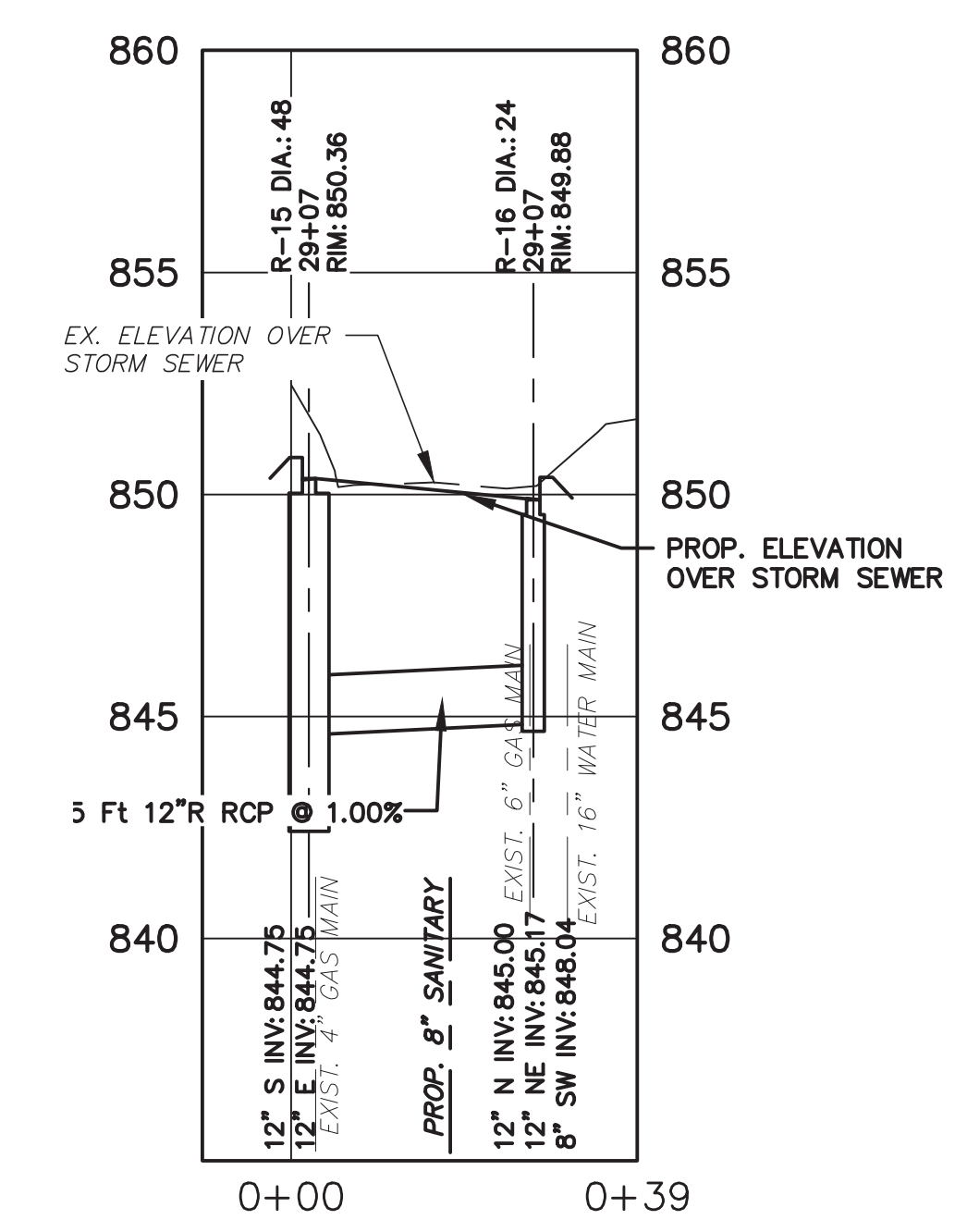
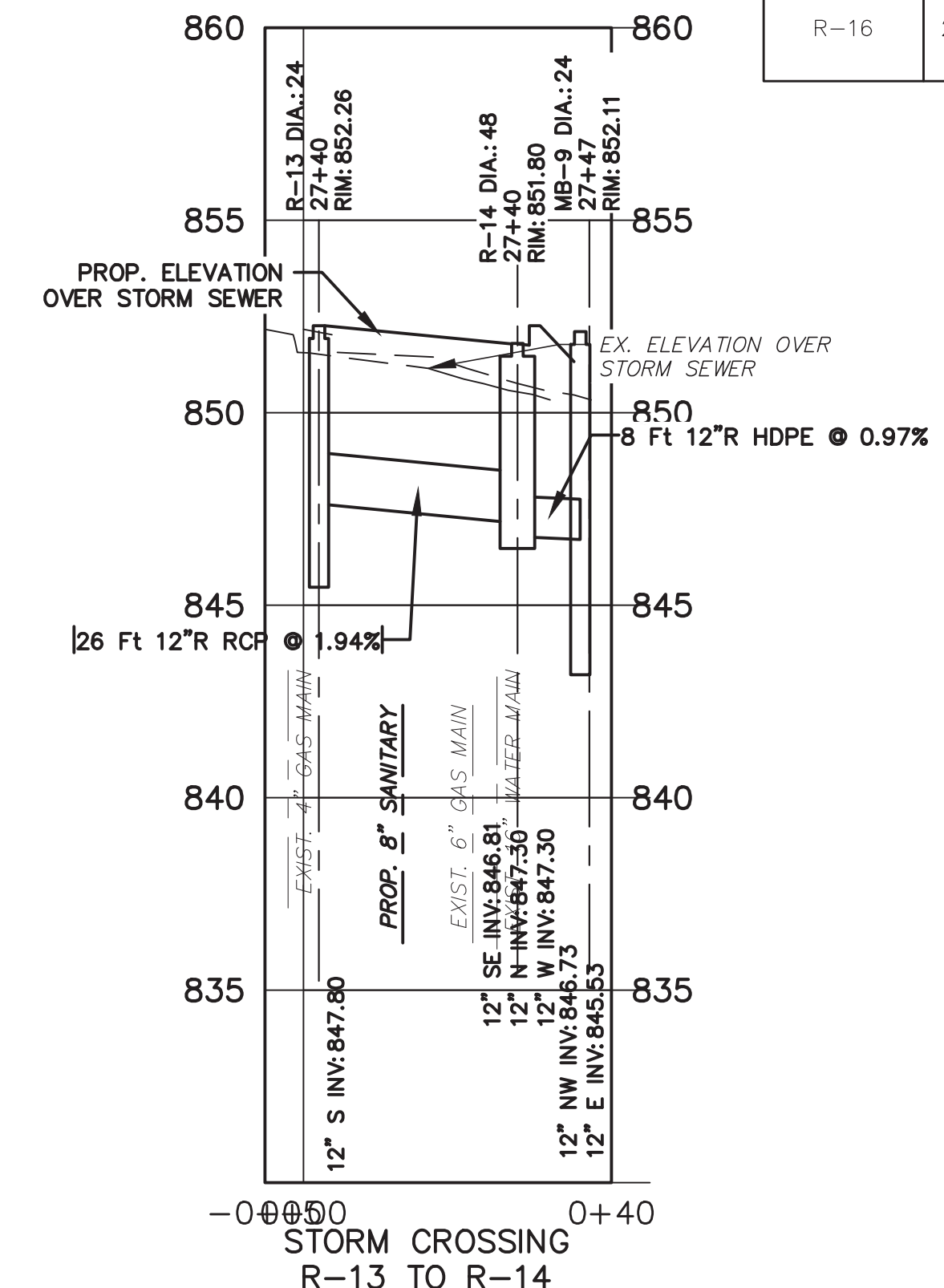
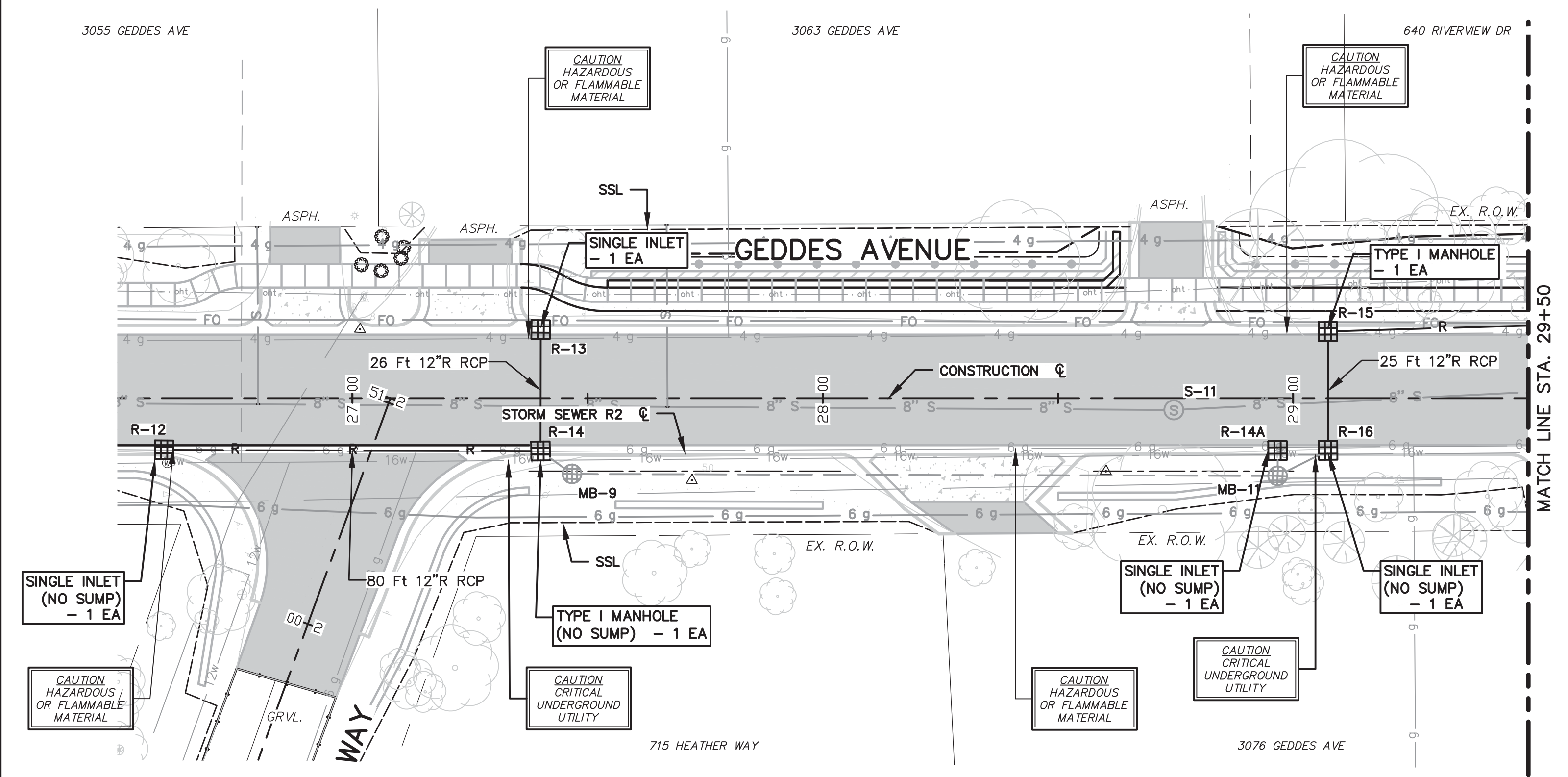
REV.	DATE	DESCRIPTION
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APR. 22, 2015	ALP/MN	CEH
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MAR. 13, 2015	ALP/MN	CEH
JAN. 29, 2015	ALP/MN	CEH
	ALP/MN	DRAWN

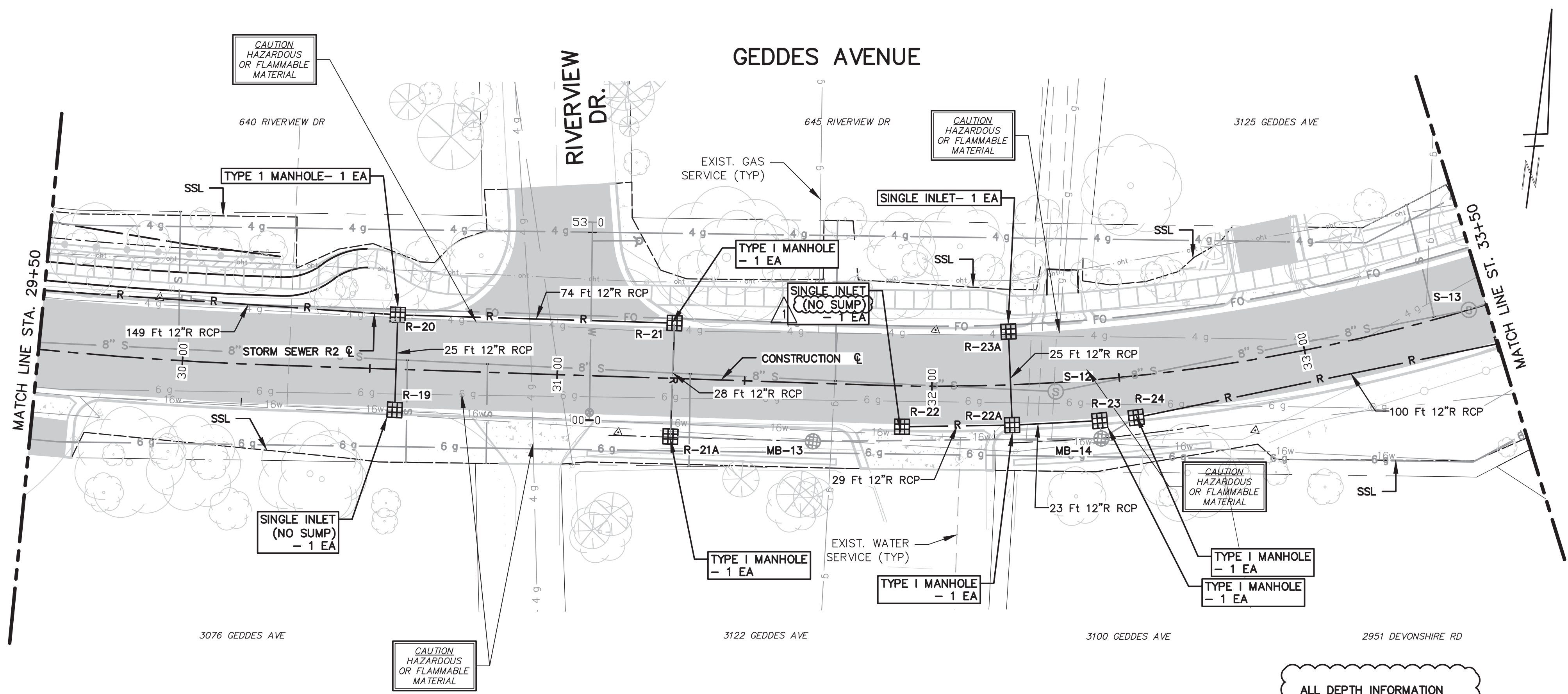
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 ISSUED FOR BIDS  
 FINAL PLAN SUBMITTAL  
 FINAL REVIEW SUBMITTAL  
 PRELIMINARY PLAN SUBMITTAL

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
 GEDES AVENUE IMPROVEMENTS  
 SCALE PLAN: 1"=20' PROFILE: 1"=4'  
 DRAWING No. STM-03  
 SHEET No.

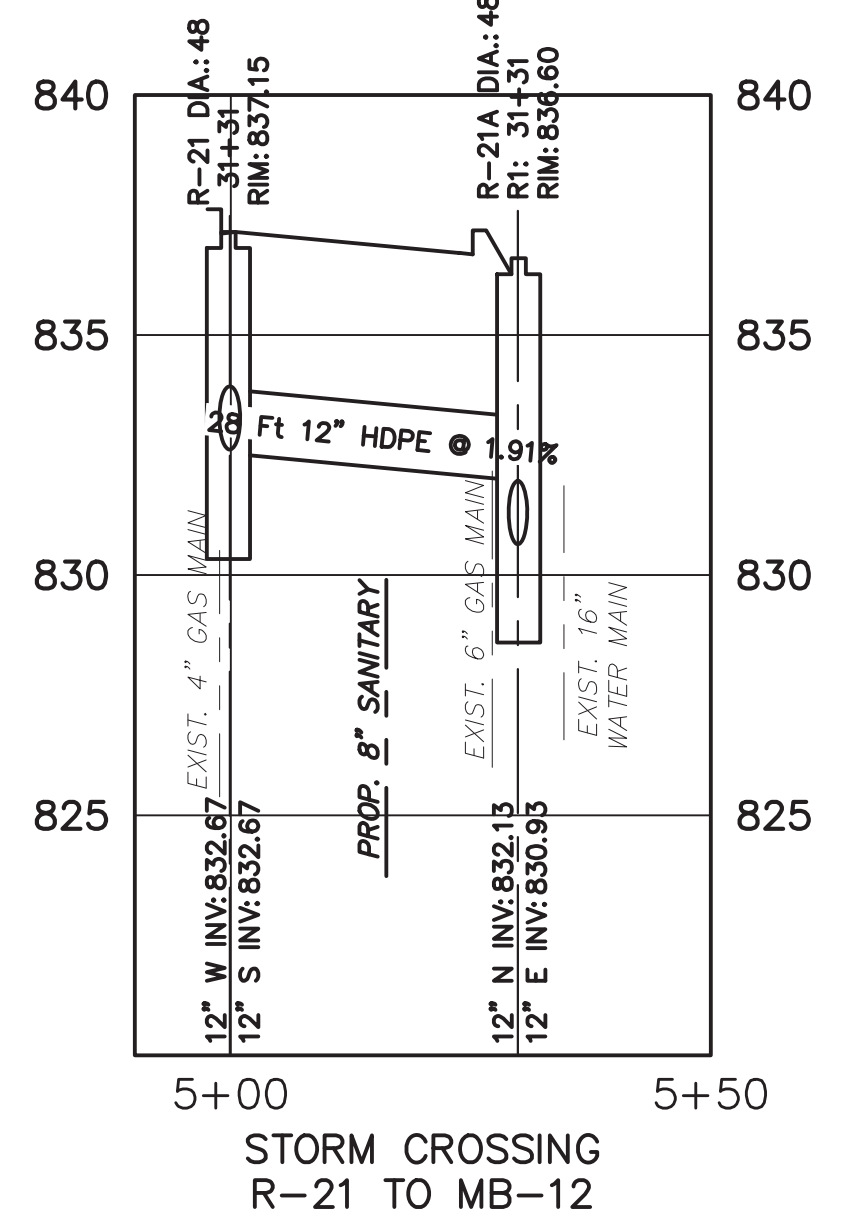
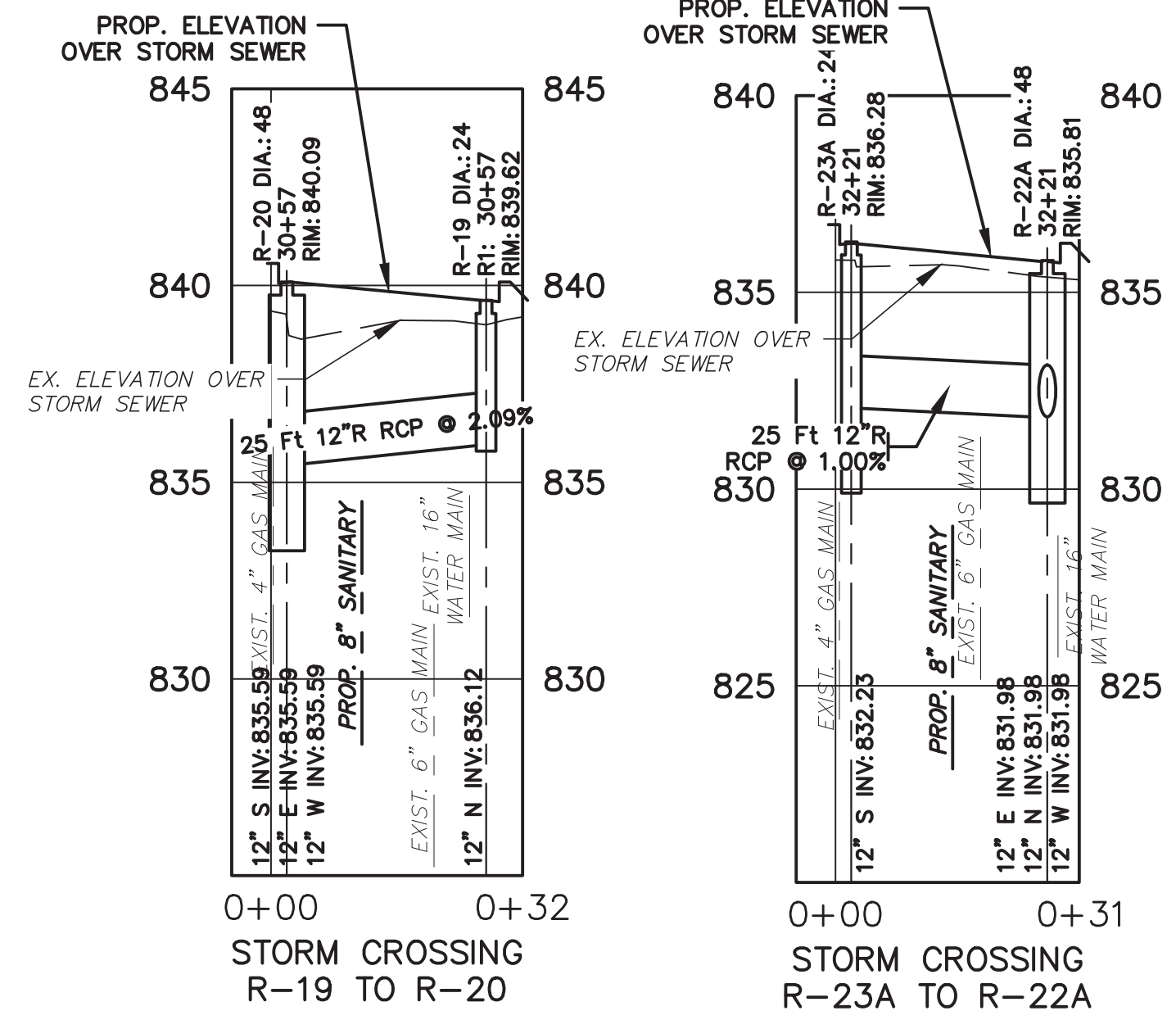
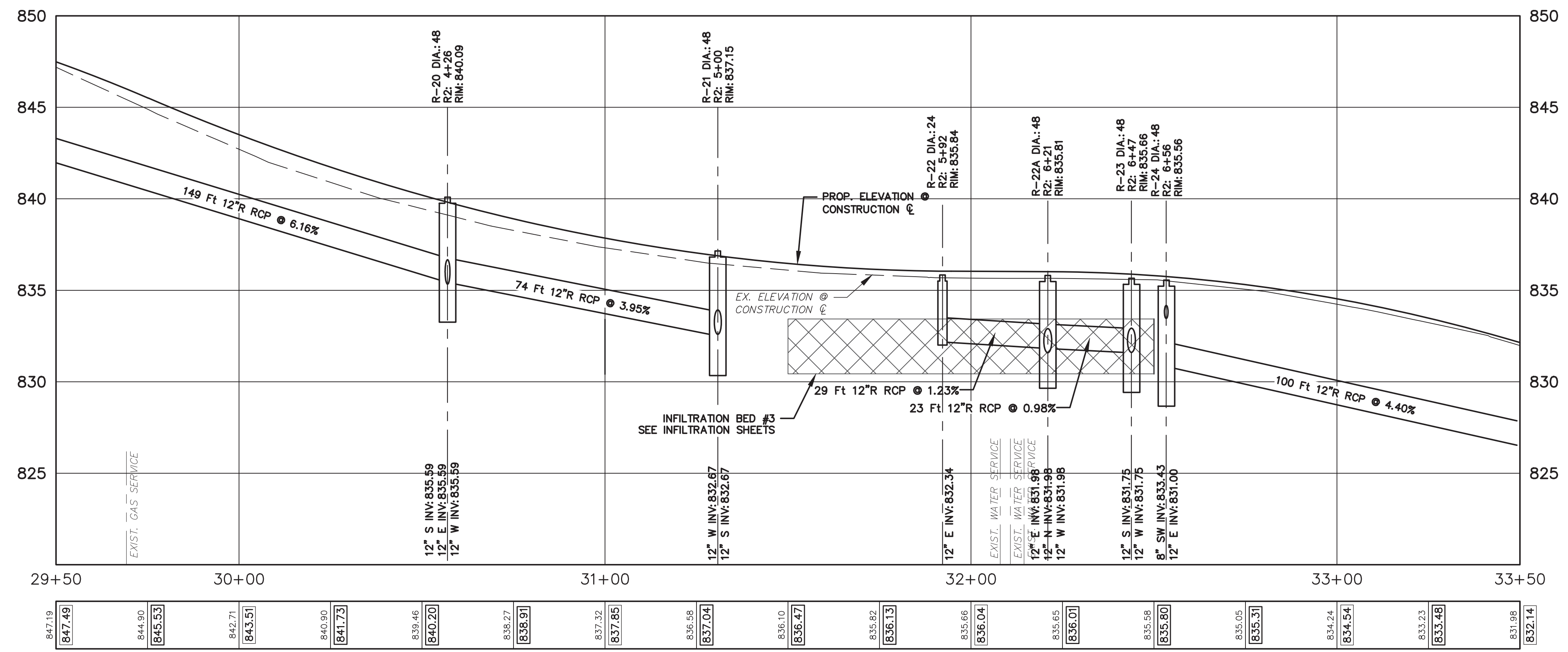
STORM SEWER STRUCTURE TABLE								
STRUCTURE	STATION	RIM ELEV.	DEPTH	ADD'L DEPTH	DIA.	TYPE	INVERTS	COVER TYPE
R-12	26+60.01	852.67	4.57	-	24	INLET	12" E 848.10	K
R-14	27+40.01	851.80	4.99	-	48	C.B.	12" SE 846.81 12" N 847.30 12" W 847.30	K
R-13	27+40.04	852.26	6.46	-	24	INLET	12" S 847.80	K
R-14A	28+96.68	850.39	3.79	-	24	INLET	12" S 846.60	K
R-15	29+07.38	850.36	7.61	-	48	C.B.	12" S 844.75 12" E 844.75	K
R-16	29+07.41	849.88	4.88	-	24	C.B.	12" N 845.00 12" NE 845.17 8" SW 848.04	K

ALL DEPTH INFORMATION HAS BEEN UPDATED IN THE STORM SEWER STRUCTURE TABLE. STRUCTURES NOT REQUIRING A SUMP HAVE BEEN IDENTIFIED. R-14A AND R-16 HAVE BEEN LISTED AS INLETS IN THE TABLE.





STORM SEWER STRUCTURE TABLE								
STRUCTURE	STATION	RIM ELEV.	DEPTH	ADD'L DEPTH	DIA.	TYPE	INVERTS	COVER TYPE
R-19	30+56.99	839.62	3.50	-	24	INLET	12" N 836.12	K
R-20	30+57.00	840.09	6.50	-	48	C.B.	12" S 835.59 12" F 835.59 12" W 835.59	K
R-21	31+30.84	837.15	6.48	-	48	C.B.	12" W 832.67 12" S 832.67	K
R-22	31+92.24	835.84	3.50	-	24	INLET	12" E 832.34	K
R-23A	32+20.97	836.28	6.05	-	24	INLET	12" S 832.23	K
R-22A	32+20.99	835.81	5.83	-	48	C.B.	12" E 831.98 12" N 831.98 12" W 831.98	K
R-23	32+43.90	835.66	5.91	-	48	C.B.	12" S 831.75 12" W 831.75	K
R-24	32+53.44	835.56	6.56	-	48	C.B.	8" SW 833.43 12" E 831.00	K



ALL DEPTH INFORMATION HAS BEEN UPDATED IN THE STORM SEWER STRUCTURE TABLE. STRUCTURES NOT REQUIRING A SUMP HAVE BEEN IDENTIFIED.

ADDENDUM No. 1	ISSUED FOR BIDS	FINAL PLAN SUBMITTAL	FINAL REVIEW SUBMITTAL	PRELIMINARY PLAN SUBMITTAL	REV.	DESCRIPTION
MAY 13, 2015	APR. 22, 2015	MAR. 26, 2015	MAR. 13, 2015	JAN. 29, 2015	DATE	CHECKED
						DATE

CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48107-8647  
www.a2gov.org

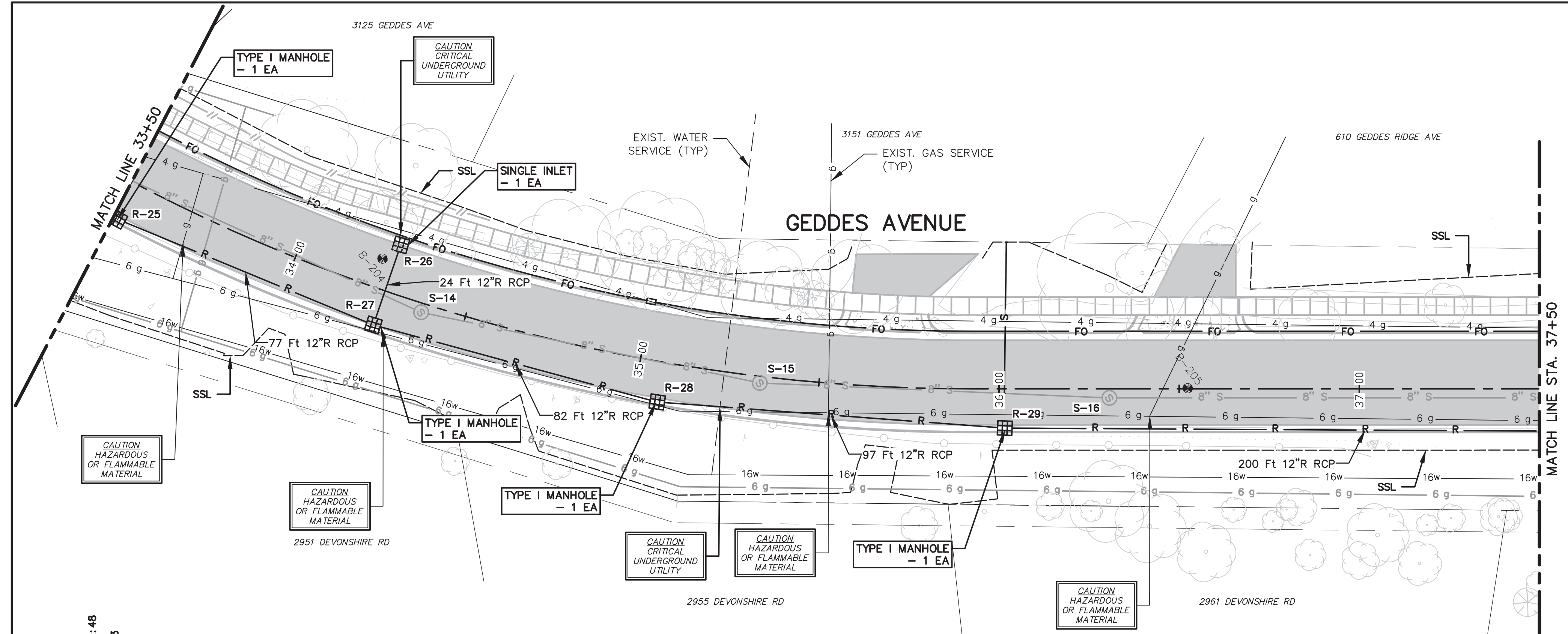
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
GEDDES AVENUE IMPROVEMENTS  
STORM SEWER PLAN AND PROFILE  
STA. 29+50 TO STA. 33+50

SCALE PLAN: 1"=20'  
PROFILE: 1"=4'  
DRAWING No. STM-04  
SHEET No.

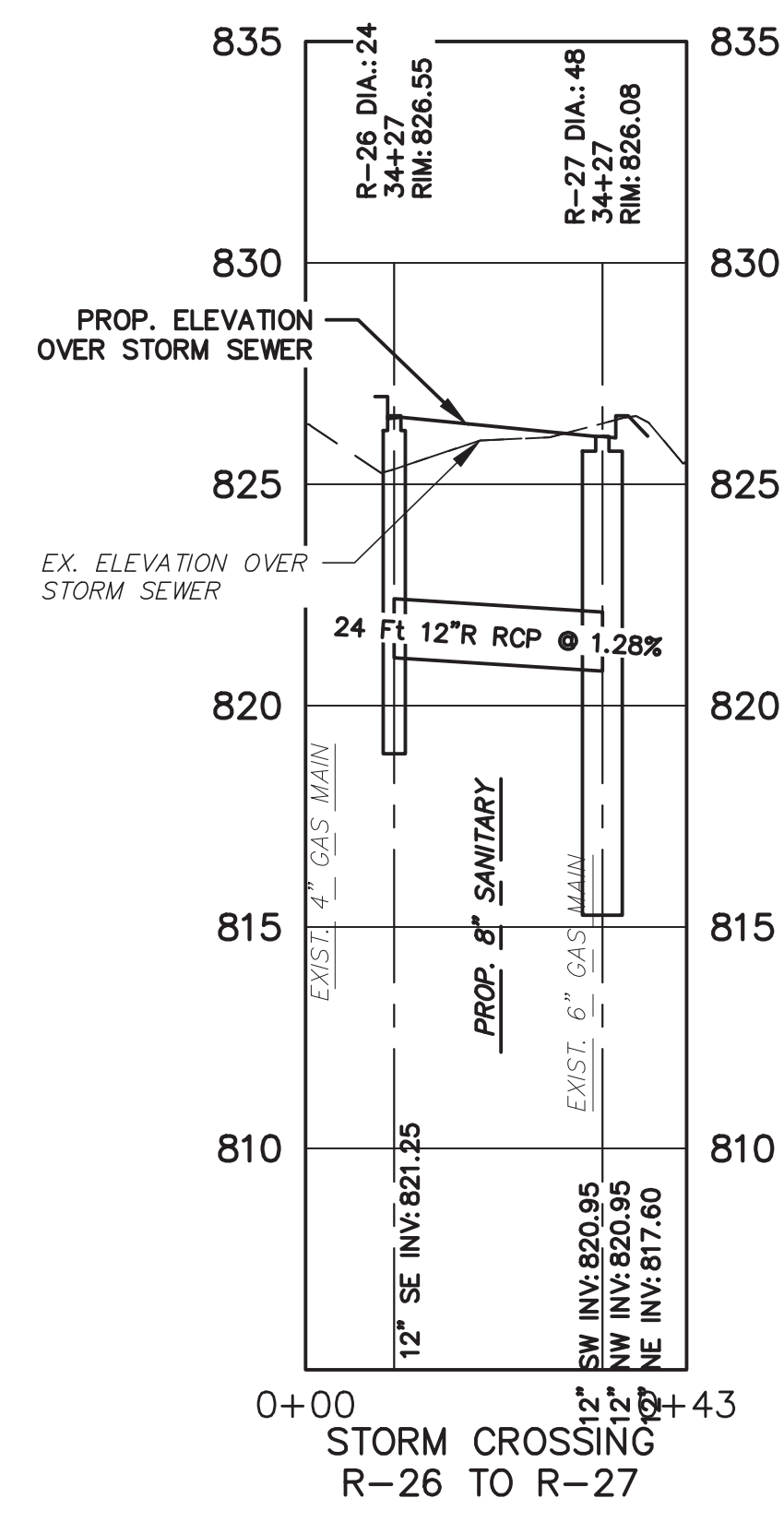
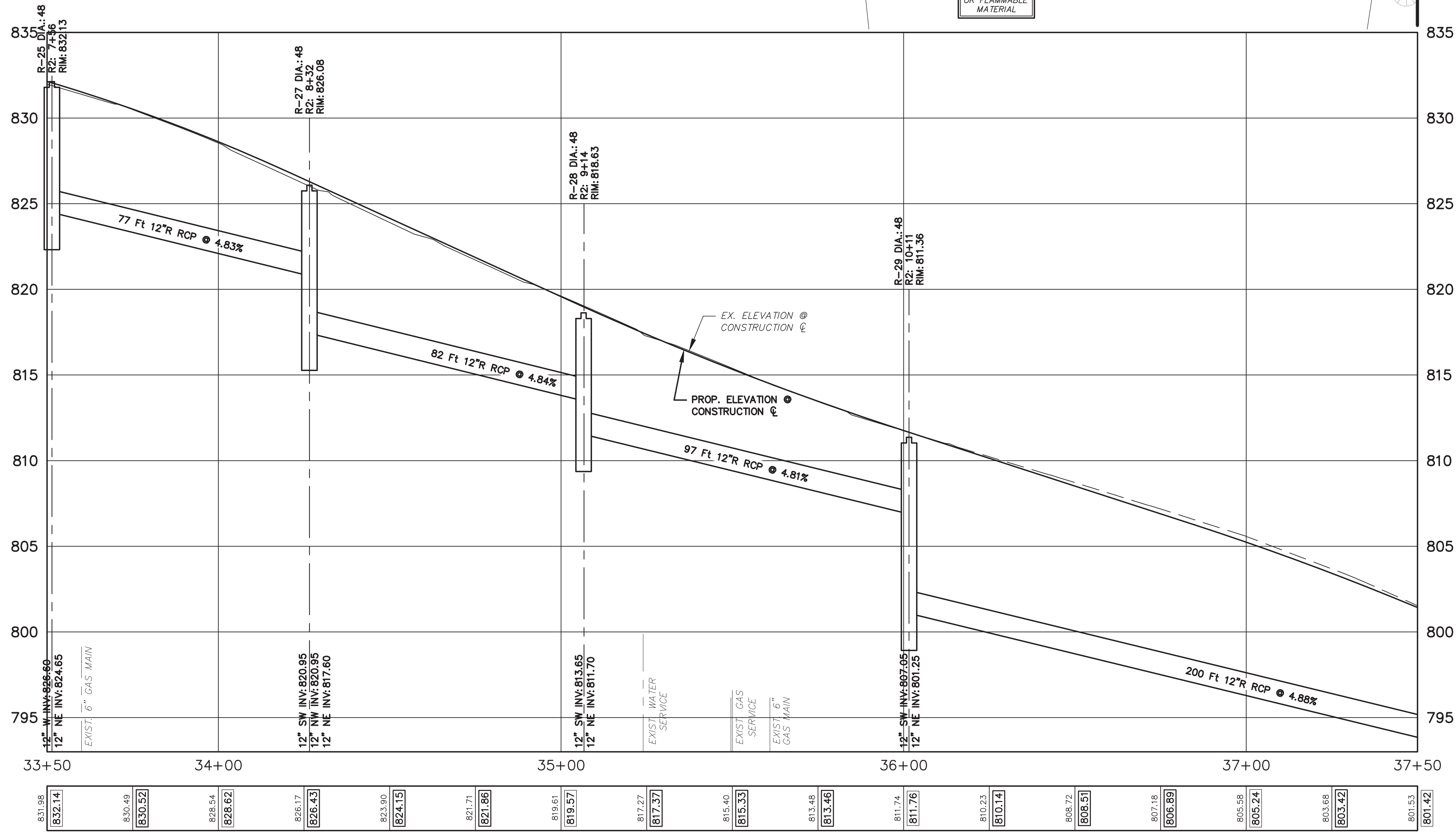


REV.	DESCRIPTION	DATE	DRWN	CHEK
MAY 13, 2015	ALP/ANN	CEH		
APR. 22, 2015	ALP/ANN	CEH		
MAR. 26, 2015	ALP/ANN	CEH		
MAR. 13, 2015	ALP/ANN	CEH		
JAN. 29, 2015	ALP/ANN	CEH		
	PRELIMINARY PLAN SUBMITTAL			
	FINAL REVIEW SUBMITTAL			
	FINAL PLAN SUBMITTAL			
	ISSUED FOR BIDS			
	ADDENDUM No. 1			

ALL DEPTH INFORMATION HAS BEEN UPDATED IN THE STORM SEWER STRUCTURE TABLE.



STRUCTURE	STATION	RIM ELEV.	DEPTH	ADD'L DEPTH	DIA.	TYPE	INVERTS	COVER TYPE
R-25	33+51.41	832.13	9.48	-	48	C.B.	12" W 826.60 12" NE 824.65	K
R-26	34+26.57	826.55	7.30	-	24	INLET	12" SE 821.25	K
R-27	34+26.57	826.08	10.48	0.48	48	C.B.	12" SW 820.95 12" NW 820.95 12" NE 817.60	K
R-28	35+06.60	818.63	8.93	-	48	C.B.	12" SW 813.65 12" NE 811.70	K
R-29	36+01.58	811.36	12.11	2.11	48	C.B.	12" SW 807.05 12" NE 801.25	K



CITY OF ANN ARBOR  
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PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
GEDDES AVENUE IMPROVEMENTS  
STORM SEWER PLAN AND PROFILE  
STA. 33+50 TO STA. 37+50

SCALE PLAN: 1"=20'  
PROFILE: 1"=4'  
DRAWING No. STM-05



CEH  
MAY 13, 2015  
APR. 22, 2015  
MAR. 26, 2015  
MAR. 13, 2015  
JAN. 29, 2015

ALP/ANN  
ALP/ANN  
ALP/ANN  
ALP/ANN  
ALP/ANN

ISSUED FOR BIDS  
FINAL PLAN SUBMITTAL  
FINAL REVIEW SUBMITTAL  
PRELIMINARY PLAN SUBMITTAL

ADDENDUM No. 1  
REV. DESCRIPTION

CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48107-8647  
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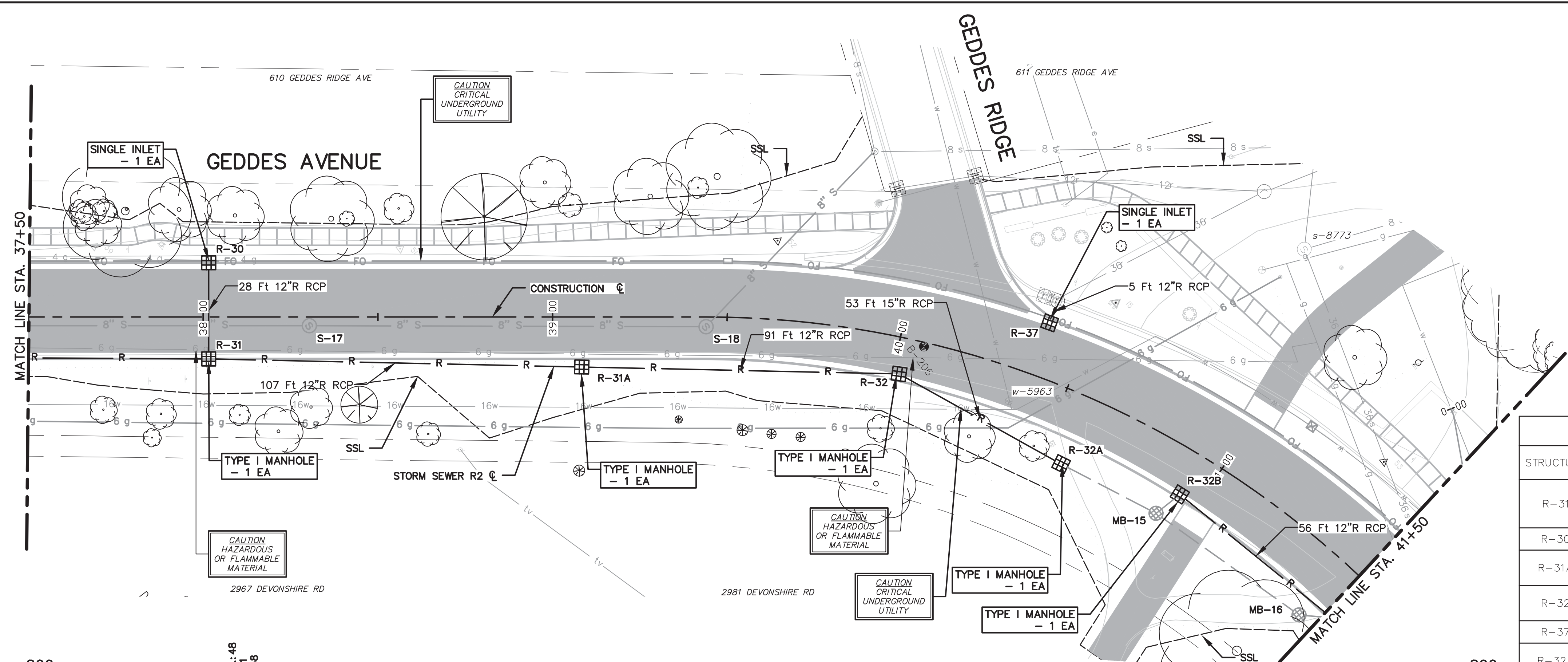


PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
GEDES AVENUE IMPROVEMENTS  
STORM SEWER PLAN AND PROFILE  
STA. 37+50 TO STA. 41+50

SCALE PLAN: 1"=20'  
PROFILE: 1"=4'

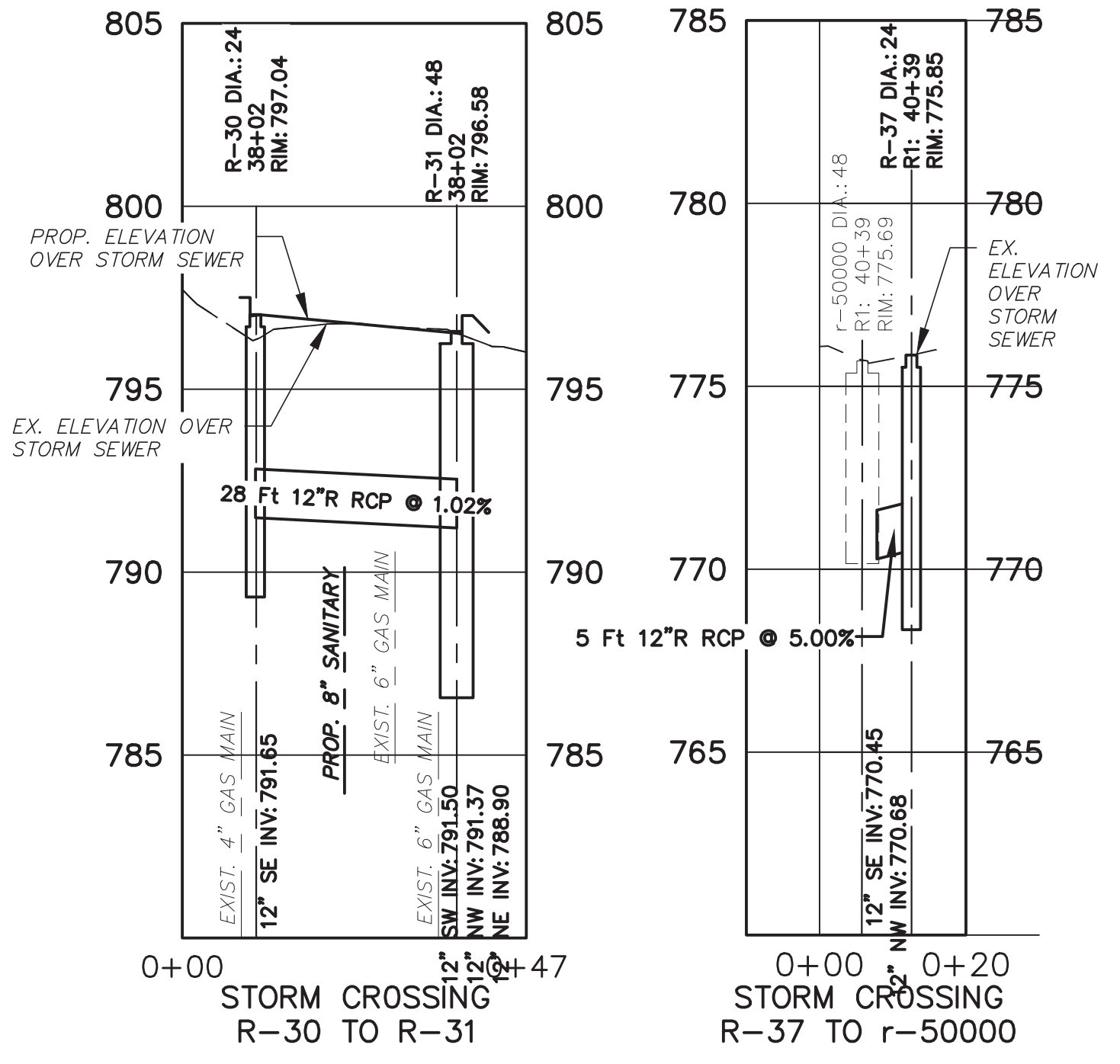
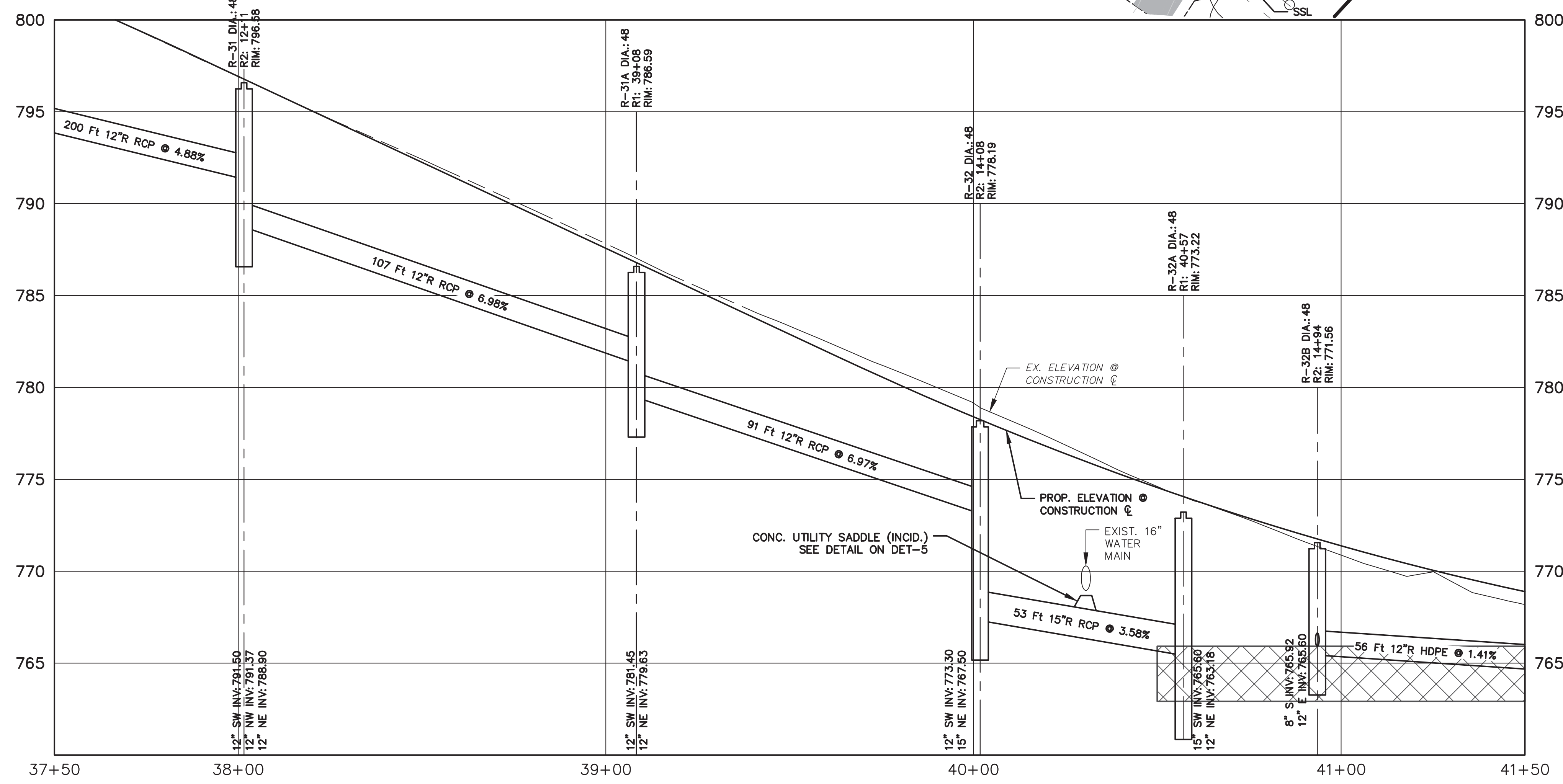
DRAWING No. STM-06

SHEET No. 69 OF 187  
ADD-1-Sheet 16

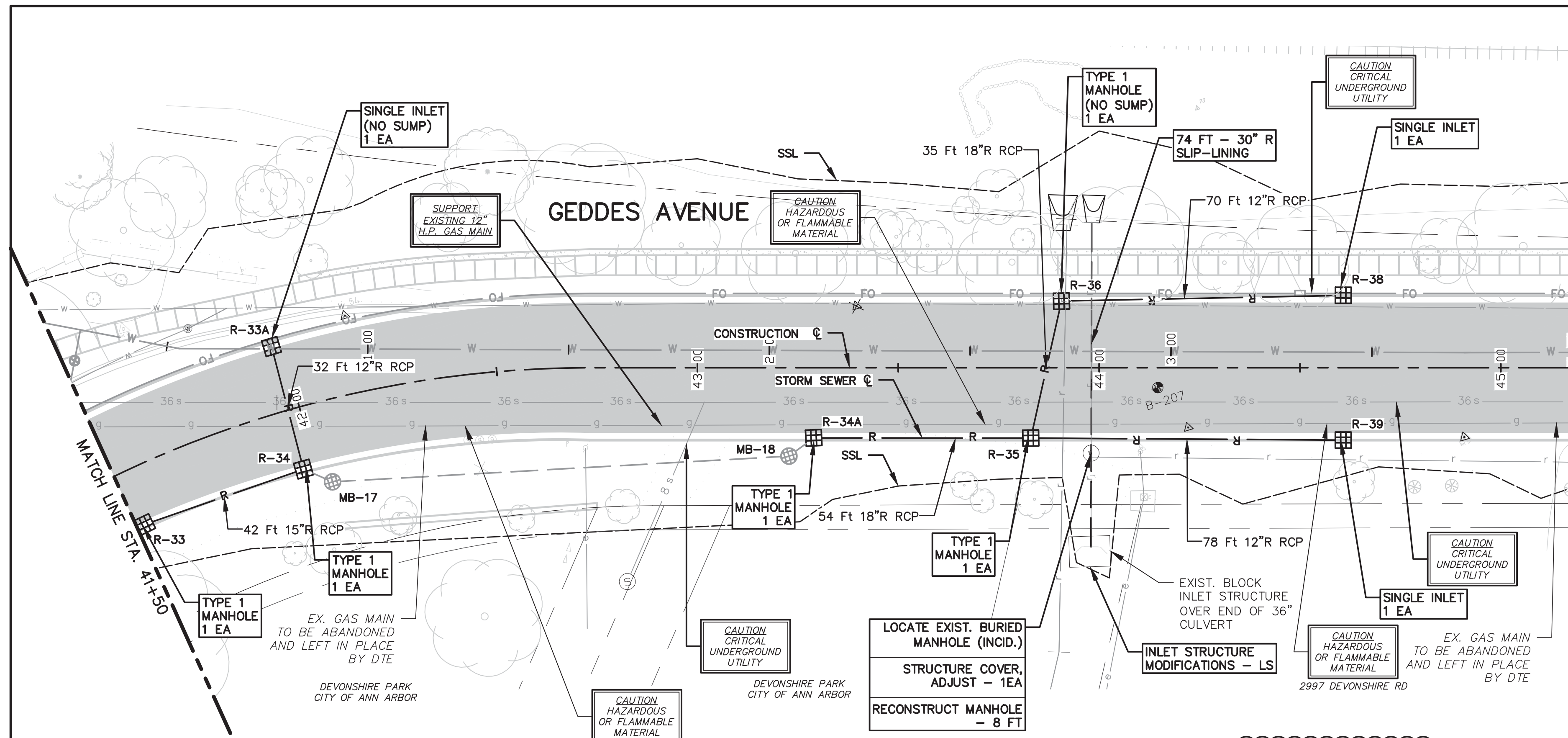


ALL DEPTH INFORMATION HAS BEEN UPDATED IN THE STORM SEWER STRUCTURE TABLE.

STRUCTURE	STATION	RIM ELEV.	DEPTH	ADD'L DEPTH	DIA.	TYPE	INVERTS	COVER TYPE
R-31	38+01.57	796.58	9.68	-	48	C.B.	12" SW 791.50 12" NW 791.37 12" NE 788.90	K
R-30	38+01.57	797.04	7.39	-	24	INLET	12" SE 791.65	K
R-31A	39+08.33	786.59	8.96	-	48	C.B.	12" SW 781.45 12" NE 779.63	K
R-32	40+01.81	778.19	12.69	2.69	48	C.B.	12" SW 773.30 15" NE 767.50	K
R-37	40+38.89	775.85	7.17	-	24	INLET	12" NW 770.68	K
R-32A	40+57.13	773.22	12.04	2.04	48	C.B.	15" SW 765.60 12" NE 763.18	G
R-32B	40+93.54	771.56	7.96	-	48	C.B.	8" S 765.92 12" E 765.60	K



801.53	799.22	799.25	796.91	796.92	794.61	794.58	792.41	792.25	790.14	789.91	787.82	787.57	785.46	785.23	783.34	782.90	781.23	780.58	779.14	778.40	776.87	776.39	774.61	774.55	772.80	772.88	770.88	771.36	769.96	770.05	768.19	768.89
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DEVONSHIRE PARK CITY OF ANN ARBOR

CAUTION HAZARDOUS OR FLAMMABLE MATERIAL

CAUTION CRITICAL UNDERGROUND UTILITY

EX. GAS MAIN TO BE ABANDONED AND LEFT IN PLACE BY DTE

LOCATE EXIST. BURIED MANHOLE (INCL.)

STRUCTURE COVER, ADJUST - 1EA

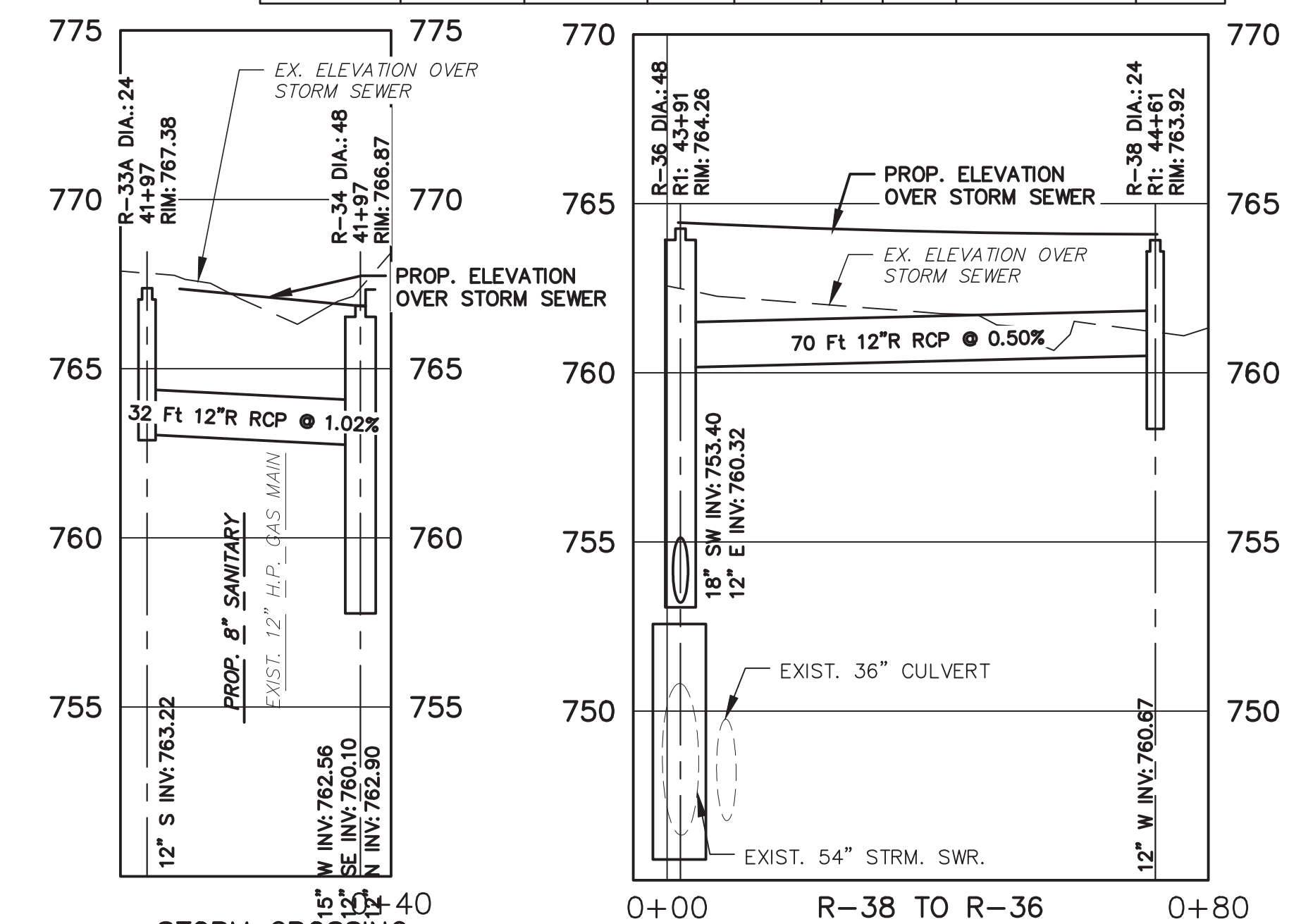
RECONSTRUCT MANHOLE - 8 FT

INLET STRUCTURE MODIFICATIONS - LS

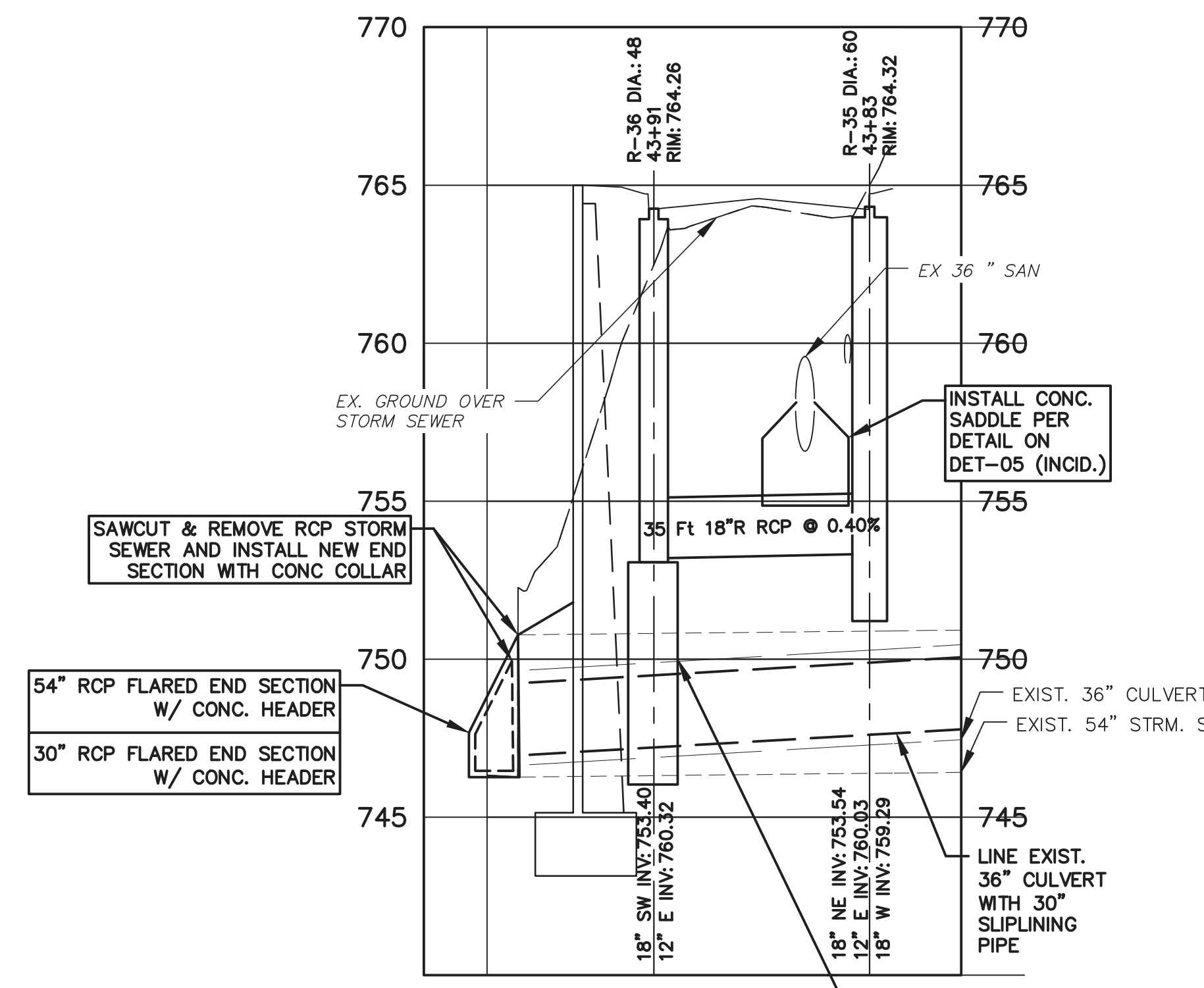
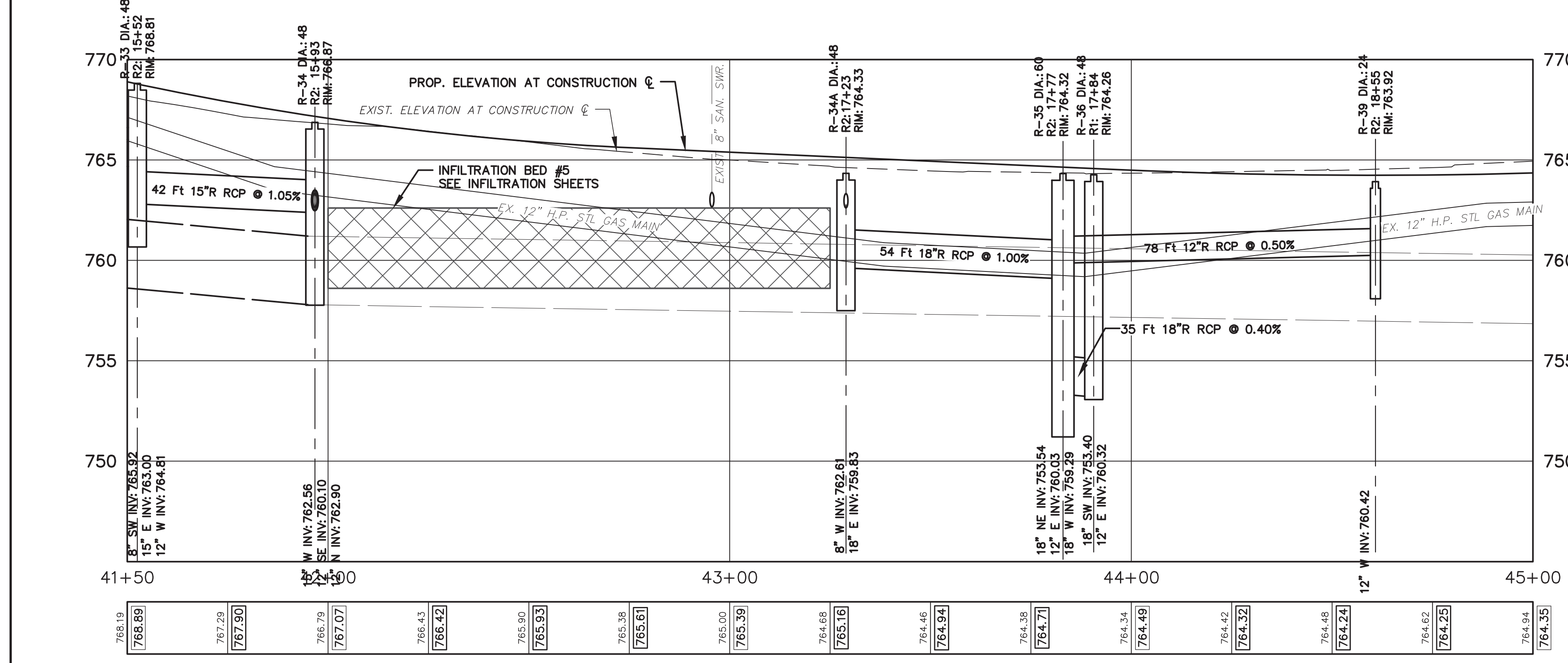
EXIST. BLOCK INLET STRUCTURE OVER END OF 36\"/>

ALL DEPTH INFORMATION HAS BEEN UPDATED IN THE STORM SEWER STRUCTURE TABLE. STRUCTURES NOT REQUIRING A SUMP HAVE BEEN IDENTIFIED. THE RIM FOR R-33A HAS BEEN UPDATED.


STORM SEWER STRUCTURE TABLE								
STRUCTURE	STATION	RIM ELEV.	DEPTH	ADD'L DEPTH	DIA.	TYPE	INVERTS	COVER TYPE
R-33	41+52.51	768.81	7.81	-	48	C.B.	8" SW 765.92 15" E 763.00 12" W 764.81	K
R-34	41+96.72	766.87	8.77	-	48	C.B.	15" W 762.56 12" SE 760.10 12" N 762.90	K
R-33A	41+97.46	767.38	4.16	-	24	INLET	12" S 763.22	K
R-34A	43+28.95	764.33	6.50	-	48	C.B.	8" W 762.61 18" E 759.83	K
R-35	43+82.98	764.32	12.78	2.78	60	C.B.	18" NE 753.54 12" E 760.03 18" W 759.29	K
R-36	43+90.63	764.26	10.86	0.36	48	C.B.	18" SW 753.40 12" E 760.32	K
R-39	44+60.79	763.92	5.50	-	24	INLET	12" W 760.42	K
R-38	44+60.79	763.92	5.25	-	24	INLET	12" W 760.67	K



STORM CROSSING R-33A TO R-34



STORM CROSSING R-35 TO R-36



Know what's below.  
Call before you dig.

REV.	DATE	DESCRIPTION
MAY 13, 2015	ALP/AMN	DRAWN
APR. 22, 2015	CEH	CHECKED
MAR. 26, 2015	ALP/AMN	FINAL PLAN SUBMITTAL
MAR. 13, 2015	ALP/AMN	FINAL REVIEW SUBMITTAL
JAN. 29, 2015	ALP/AMN	PRELIMINARY PLAN SUBMITTAL

ADDENDUM No. 1

ISSUED FOR BIDS


FINAL PLAN SUBMITTAL

FINAL REVIEW SUBMITTAL

PRELIMINARY PLAN SUBMITTAL

DESCRIPTION

CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48107-8647  
734-794-4410  
www.a2gov.org



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR

GEDDES AVENUE IMPROVEMENTS

STORM SEWER PLAN AND PROFILE

STA. 41+50 TO STA. 45+00

SCALE PLAN: 1"=20'  
PROFILE: 1"=4'

DRAWING No. STM-07

SHEET No.

70 OF 187  
ADD1-Sheet 16



PAY ITEM #	DESCRIPTION	QUANTITY	UNIT
130	Protective Fence, Orange, Plastic, 4 Foot Ht.	9000	Ft
135	Tree Removal, 6" to 17"	87	Ea
135A	Tree Removal, 18" and Larger	39	Ea
135B	Excavation for Tree Evaluation	150	Hr
140	Exploratory Excavation, Trench Detail I (0-10' deep)	6	Ea
141	Exploratory Excavation, Trench Detail VI (0-10' deep)	4	Ea
144	Exploratory Excavation Add'l Depth	20	VF
201	Project Supervision, Max. \$100,000	1	LS
202	General Conditions, Max. \$100,000	1	LS
203	Minor Traf Devices, Max. \$100,000	1	LS
203A	Traffic Regulator Control	600	Hr
204	Preconstruction Documentation	1	LS
205	Railroad Flagger Allowance	48000	Dlr
206	Machine Grading, Modified	51	Sta
207	Subgrade Undercutting, Type II	2975	Cyd
208	Pavt Mrkg, Sprayable, Thermopl, 6 inch, White	6635	Ft
209	Pavt Mrkg, Sprayable, Thermopl, 4 inch, Yellow	8766	Ft
210	Pavt Mrkg, Thermopl, 6 inch, Crosswalk	300	Ft
211	Pavt Mrkg, Thermopl, 12 inch, Crosswalk	128	Ft
212	Pavt Mrkg, Thermopl, 24 inch Stop Bar	120	Ft
213	Guardrail, Type B	438	Ft
214	Guardrail Approach Terminal, Type 1B	1	Ea
215	Guardrail Approach Terminal, Type 2B	1	Ea
216	Conduit, Schedule 80 PVC, 2-3 inch, Special	4406	Ft
217	Communication Handhole Assembly, Complete	11	Ea
218	HMA, 5E1	1308	Ton
219	HMA, 4E1	3682	Ton
220	HMA Driveway Approach	90	Ton
221	HMA, LVSP	35	Ton
222	HMA Plane of Weakness Joint	383	Ft
223	Temporary HMA Pavement	1000	Ton
224	Maintenance Aggregate	2000	Ton
225	Decorative Stone Wall Removal	1	LS
226	Fence, Rem	377	Ft
227	Guardrail, Rem	489	Ft
228	HMA Surface, Rem	16474	Syd
229	Cold Milling HMA Surface	698	Syd
230	Remove Concrete Curb or Curb & Gutter - Any Type	851	Ft
231	Remove Concrete Sidewalk and Drive - Any Thickness	2193	Sft
232	Concrete Curb or Curb & Gutter - Any Type	5333	Ft
233	Concrete M-Opening - High Early	766	Ft
234	4 inch Concrete Sidewalk	18431	Sft
235	6 inch Concrete Sidewalk, Ramp or Drive	2027	Sft
235A	6 inch Concrete Sidewalk, Ramp or Drive - High Early	6473	Sft
236	Detectable Warning, Cast In Place	160	Sft
237	Adjust Structure Cover	8	Ea
238	Adjust Curb Inlet Structure Cover	4	Ea
239	Adjust Monument Box or Gate Valve Box or Gas Box	15	Ea
240	Structure Cover	68	Ea
241	Culv, Rem, 24 inch to 48 inch	1	Ea
242	Sewer, Rem - Any Size	124	Ft
243	Dr Structure, Rem	5	Ea
244	Modular Concrete Block Wall	1476	Sft
245	Natural Boulder Retaining Wall	2816	Sft
246	Subbase, CIP, Granular Material, CI II	1352	Cyd
247	Sand Subbase Course, Class II - C.I.P.	5498	Cyd
248	Aggregate Base Course, 21AA Limestone, 4 inch, C.I.P.	23	Syd
249	Aggregate Base Course, 21AA Limestone, 6 inch, C.I.P.	436	Syd
250	Aggregate Base Course, 21AA Limestone, 8 inch, C.I.P.	16532	Syd
251	Aggregate Surface Cse, 8 inch	1203	Syd
252	Wood Privacy Fence	99	Ft
253	Wood Picket Fence	165	Ft
254	Plastic Drum - Lighted - Furnish and Operate	300	Ea
255	Barricade, Type III - Lighted - Furnish and Operate	50	Ea
256	Temporary Sign, Type B	345	Sft
257	Temporary Sign, Type B, Special	633	Sft
258	Channelizing Device, 42 inch, Furnish and Operate	100	Ea

PAY ITEM #	DESCRIPTION	QUANTITY	UNIT
259	Sign, Portable, Changeable Message, Furn	2	Ea
260	Sign, Portable, Changeable Message, Oper	2	Ea
261	Mast Arm, Rem	1	Ea
262	Mast Arm Std, Rem	1	Ea
263	Fdn, Rem	1	Ea
264	Pedestal, Rem	4	Ea
265	Pedestal Fdn, Rem	4	Ea
266	Case Sign, Rem	1	Ea
267	Sign, Type III, Rem	107	Ea
268	Mast Arm Pole, Cat III, Mod	2	Ea
269	Mast Arm, 20 foot, Cat III, Mod	2	Ea
270	Mast Arm Pole, Fdn	2	Ea
271	Pedestal, Fdn	2	Ea
272	Pedestal, Alum, Salv	2	Ea
273	Conduit, DB, 2, 3 inch	80	Ft
274	Riprap	20	Syd
275	Underdrain, Subbase, 6 inch, Special	8206	Ft
276	Culvert, CI IV RCP, 24 inch	30	Ft
277	End Section, 54 inch	1	Ea
278	End Section, 24 inch	2	Ea
278A	End Section, 30 inch	1	Ea
282	30 inch Slip-Lining Pipe	74	Ft
283	CIP Conc Manhole Base	1	Ea
284	Hydrodynamic Separator	1	Ea
285	Outlet Control Structure	1	Ea
286	Energy Dissipation Structure	1	Ea
287	Single Inlet	18	Ea
288	8 inch Schedule 80 PVC Pipe, Trench Detail I	56	LF
290	Drainage Aggregate, Type I	177	Ton
291	Drainage Aggregate, Type II	8	Ton
292	Geotextile Blanket	1470	Syd
293	Geotextile Separator	14237	Syd
294	8 inch HDPE Dual Wall, Perforated Infiltration Pipe	547	Lft
295	12 inch HDPE Dual Wall, Perforated Infiltration Pipe	1002	Lft
296	24 inch Dia Maintenance Basin	16	Ea
297	8 inch Sewer Tap	4	Ea
298	Temp. Water Stop, 16 inch and Larger	7	Ea
299	Temp. Water Stop, 12 inch and Smaller	2	Ea
305	8 inch SDR 26 PVC Pipe, Trench Detail II Mod	3274	LF
320	12 inch C-76 CI IV RCP, Trench Detail I	1824	Ft
321	15 inch C-76 CI IV RCP, Trench Detail I	95	Ft
322	18 inch C-76 CI IV RCP, Trench Detail I	89	Ft
323	24 inch C-76 CI IV RCP, Trench Detail I	570	Ft
324	36 inch C-76 CI IV RCP, Trench Detail I	694	Ft
335	8 inch by 6 inch SDR 26 PVC Tee (or Wye)	23	Ea
350	6 inch SDR 23.5 PVC Riser	153	VF
353	6 inch SDR 23.5 PVC Service Lead	805	LF
356-SP	Sewer, MH, 48 inch dia, (0-10 ft deep)	17	Ea
357-SP	Sewer MH, 48 inch dia Add'l Depth	108	VF
358-SP	Sewer MH, 60 inch dia, (0-10 ft deep)	2	Ea
359-SP	Sewer, MH, 60 inch dia, Add'l Depth	33	VF
360	Type I Manhole (0-10' deep)	34	Ea
361	Manhole Additional Depth	34	Ft
364	Type III Manhole	2	Ea
370	8 inch Drop Connection	38	VF
381-SP	Earth Retention for Sanitary Sewer Construction	1	LS
392	Pipe Undercut & Refill (6A)	540	CY
400	20 inch, PC350 DIP w/ Polyethylene Wrap, Trench Detail I	912	LF
401	16 inch, PC350 DIP w/ Polyethylene Wrap, Trench Detail I	15	LF
402	8 inch, Class 50 DIP w/ Polyethylene Wrap, Trench Detail I	328	LF
403	6 inch, Class 50 DIP w/ Polyethylene Wrap, Trench Detail I	63	LF
404	20 inch, Water Main Cap	2	Ea
405	16 inch, Water Main Cap	1	Ea
406	8 inch, Water Main Cap	4	Ea
407	6 inch, Water Main Cap	2	Ea

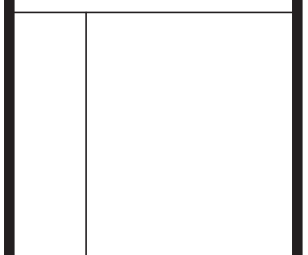
PAY ITEM #	DESCRIPTION	QUANTITY	UNIT
410	20 inch, 11.25° Bend	3	Ea
411	20 inch, 22.5° Bend	2	Ea
412	16 inch, 45° Bend	1	Ea
413	8 inch, 11.25° Bend	2	Ea
414	8 inch, 22.5° Bend	3	Ea
415	8 inch, 90° Bend	1	Ea
416	6 inch, 90° Bend	1	Ea
420	8 inch x 6 inch Reducer	2	Ea
430	20 inch by 16 inch Tee	1	Ea
431	20 inch by 8 inch Tee	1	Ea
432	20 inch by 6 inch Tee	1	Ea
433	16 inch by 8 inch Tee	2	Ea
434	8 inch by 6 inch Tee	2	Ea
440	Fire Hydrant Assembly	5	Ea
443	8 inch Gate Valve-in-Well	1	Ea
444	16 inch Gate Valve-in-Box	1	Ea
446	20 inch Butterfly Valve-in-Well	1	Ea
447	16 inch Gate Valve-in-Well	1	Ea
450	16 inch by 6 inch Tapping Sleeve Valve-in-Box	1	Ea
451	16 inch by 8 inch Tapping Sleeve Valve-in-Well	4	Ea
460	Excavate & Backfill for Water Service Tap and Lead	86	LF
461	Water Service Lead, 1 inch	86	LF
481	Water Main Pipe Abandonment	1413	LF
482	6 inch Gate Valve-in-Box Abandonment	1	Ea
483	16 inch Butterfly Valve-in-Well Abandonment	1	Ea
490	1 inch Air-Relief Assembly	1	Ea
583	Temporary Pavement Marking, 4 inch White or Yellow, Type NR	3600	Ft
590	Pavt Mrkg, Ovly Cold Plastic, Thru Arrow Sym	9	Ea
591	Pavt Mrkg, Ovly Cold Plastic, Bike	9	Ea
702	Inlet Filter	45	Ea
800	Silt Fence	10271	Ft
881	Turf Establishment	18178	Syd
881A	Landscaping Maintenance and Warranty, 1st Year, Min. \$15,000	1	LS
881B	Landscaping Maintenance and Warranty, 2nd Year, Min. \$10,000	1	LS
900	Excavation, Fdn	5620	Cyd
901	Earth Retention System, Temp, Left in Place	940	Sft
902	Backfill, Structure, CIP	6840	Cyd
903	Aggregate, 21A, Modified	400	Cyd
904	Underdrain, Fdn, 4 inch	905	Ft
905	Underdrain Outlet, 4 inch	360	Ft
906	Underdrain Outlet Ending, 4 inch	18	Ea
907	Substructure, Conc	1187	Cyd
908	Reinforcement, Steel, Epoxy Coated	169124	Lb
909	Bridge Railing, 4 Tube	905	Ft
910	Sprinkler Head, Relocate	50	Ea
911	Sprinkler Head, Replace	150	Ea
912	Sprinkler Line	3000	Ft
913	Aluminum Rail Fence, Direct Bury	280	Ft
914	Landscape Stone	164	Syd
915	Underdrain Outlet, 6 inch	30	Ft
916	Post Mailbox, Modified	30	Ea
917	Gleditsia T.I. Imperial, 2.5 inch cal.	11	Ea
918	Nyssa Sylvatica, 2.5 inch	9	Ea
919	Ostrya Virginiana, 2 inch	6	Ea
920	Parthenocissus Tricuspidata, #1 container	72	Ea
921	Picea Glauca, 10 ft ht.	25	Ea
922	Pinus Rubra, 10 ft ht.	10	Ea
923	Quercus Bicolor, 2.5 inch	16	Ea
924	Quercus Rubra, 2.5 inch	17	Ea
925	Fire Hydrant Assembly, Rem	1	Ea
926	Fire Hydrant Adjustment	3	Ea
927	Fire Hydrant Relocate	2	Ea
928	Temporary Turf Establishment	5300	Syd
929	Gas Main, Rem	6819	Ft

1 QUANTITY TABLE WAS UPDATED.



ADDENDUM No. 1	ISSUED FOR BIDS	FINAL PLAN SUBMITTAL	FINAL REVIEW SUBMITTAL	PRELIMINARY PLAN SUBMITTAL	REV. DESCRIPTION
MAY 13, 2015	APR 22, 2015	MAR 26, 2015	MAR 13, 2015	JAN 29, 2015	DATE

CITY OF ANN ARBOR  
PUBLIC SERVICES  
301 EAST HURON STREET  
ANN ARBOR, MI 48107-8647  
www.a2gov.org



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR  
SCALES NO SCALE  
DRAWING No. QTY-01  
GEDES AVENUE IMPROVEMENTS  
QUANTITY SUMMARY SHEET