

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

PUBLIC IMPROVEMENT PROJECT APPROVED

MARCH 7, 2017

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

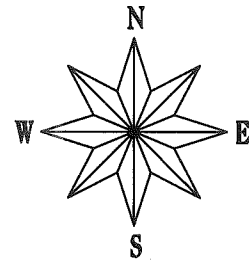
Michael R. Bailey 3/2/2017
City Engineer Date

INDEX OF SHEETS

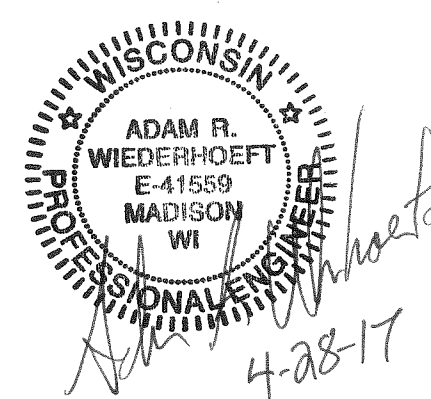
SHEET NO.	1	TITLE
SHEET NO.	D1	GENERAL NOTES
SHEET NO.	D2	TYPICAL SECTIONS
SHEET NO.	D3	ODANA RD DRIVEWAY & SEWER LATERALS
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6102 ODANA ROAD AND 6001 MINERAL POINT ROAD CSM - ILLUMINA

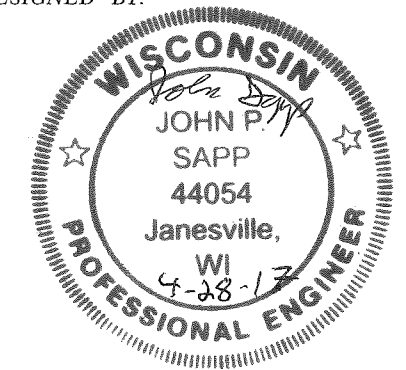
CITY PROJECT NO. 11523
CITY CONTRACT NO. 7878
MUNIS NO. 11523



WATER DESIGNED BY:



STREET GRADES DESIGNED BY:



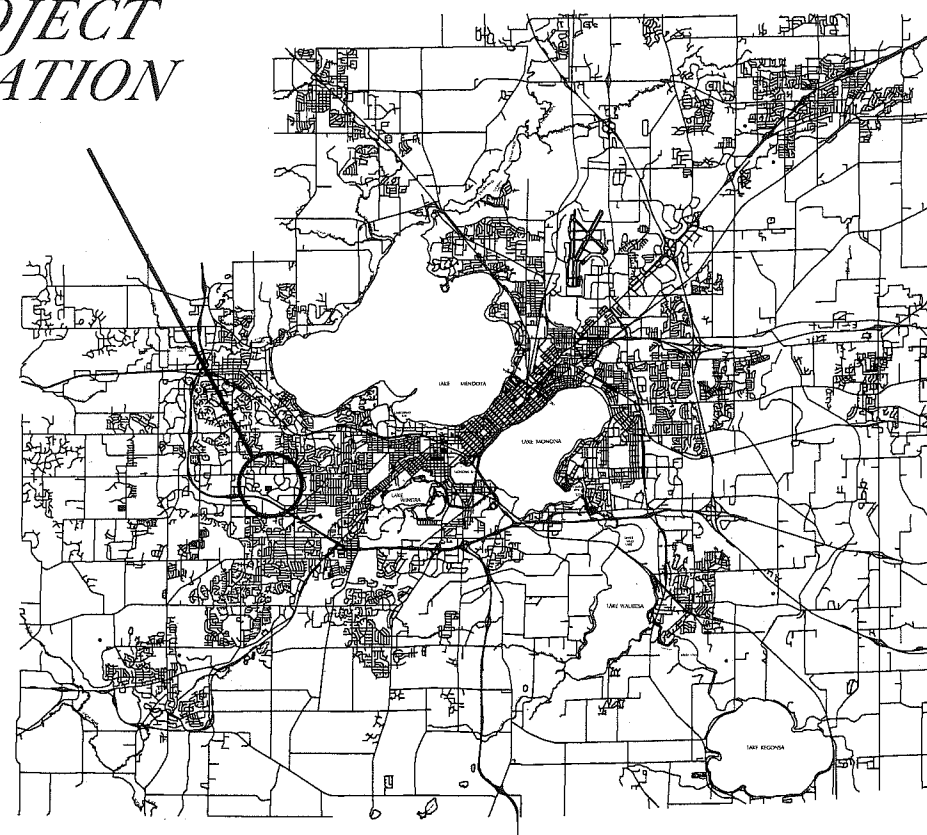
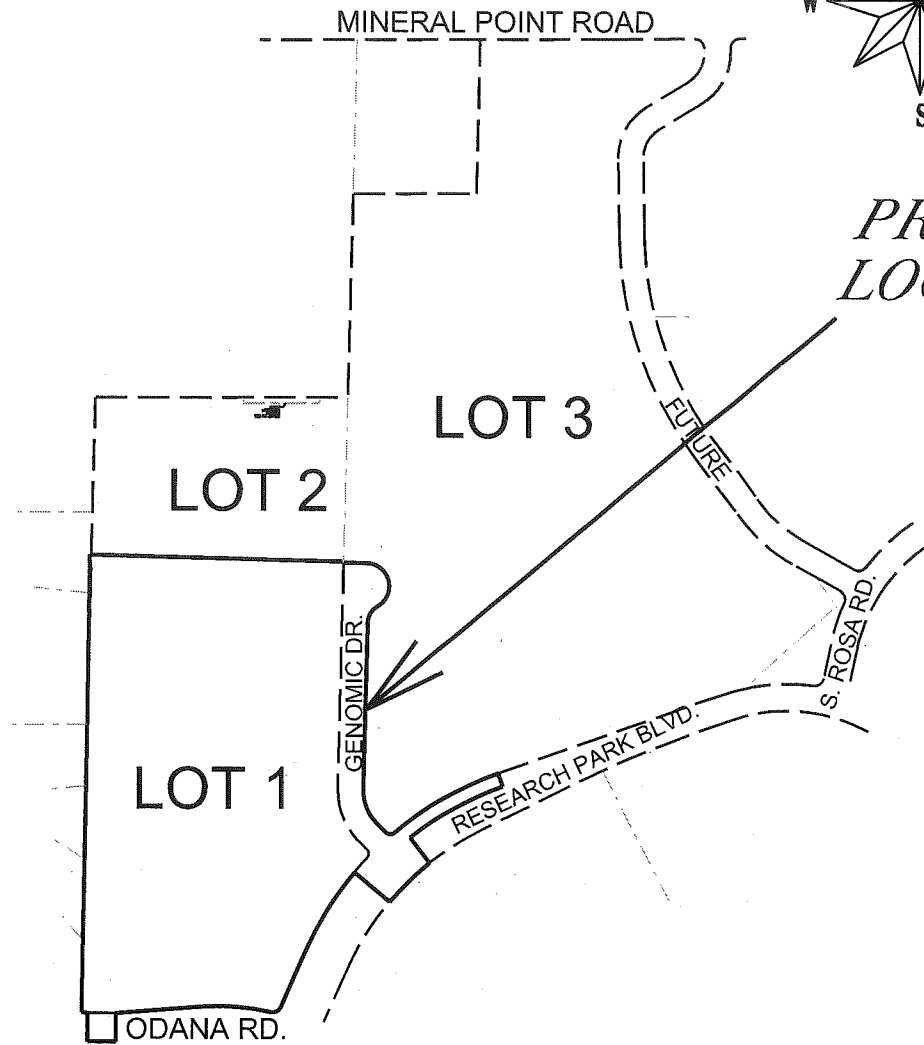
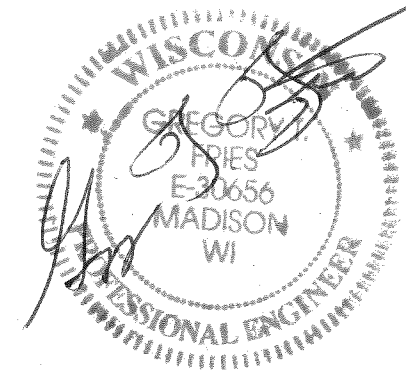
PAVEMENT MARKINGS AND GEOMETRICS DESIGNED BY:



SANITARY SEWER DESIGNED BY:

Private Sanitary Sewer MAIN BY DEVELOPER'S ENGINEER. (MAN) 5/1/17

STORM SEWER DESIGNED BY:



PROJECT LOCATION

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

THE LOCATION AND INFORMATION FOR PROPOSED NEW TREES, IN THE PUBLIC RIGHT OF WAY OR ON PUBLIC LANDS ARE APPROXIMATE AND ARE SHOWN FOR REFERENCE ONLY. THE LOCATIONS, SPECIFICATIONS AND PLANTING METHODS OF ALL PROPOSED NEW OR REPLACEMENT TREES IN THE PUBLIC RIGHT OF WAY OR ON PUBLIC LANDS SHALL BE APPROVED BY THE CITY FORESTER PRIOR TO INSTALLATION.

NO TREES IN THE RIGHT OF WAY OR ON PUBLIC LANDS SHALL BE TRIMMED, PRUNED, REMOVED OR ADVERSELY AFFECTED IN ANY WAY UNTIL THE DEVELOPER HAS RECEIVED WRITTEN PERMISSION FROM THE CITY ENGINEER OR CITY FORESTER. SAID WRITTEN PERMISSION SHALL INCLUDE LANGUAGE INDICATING THAT SECTION 10.101 OF THE MADISON GENERAL ORDINANCES AND ADMINISTRATIVE PROCEDURE MEMORANDUM NO. 6-2, REFERRING TO NOTIFICATION OF PROPERTY OCCUPANTS AND/OR OWNERS, HAS BEEN COMPLIED WITH.

ALL PAVEMENT IN THE GENOMIC DRIVE RIGHT-OF-WAY SHALL BE TYPE A PAVEMENT PER STANDARD DETAIL DRAWING 4.02.

ALL PAVEMENT IN THE ODANA ROAD AND RESEARCH PARK BOULEVARD RIGHTS-OF-WAY SHALL BE TYPE C PAVEMENT PER STANDARD DETAIL DRAWING 4.02.

UNDERDRAINS SHALL BE INSTALLED, PER STANDARD DETAIL DRAWING 4.05 FOR 75' ON EACH SIDE OF THE LOW POINT, OR TO THE NEAREST CURB HIGH POINT. ALL UNDERDRAIN SHALL BE WRAPPED.

ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADES OF 0.5% TOWARD STORM SEWER INLETS.

ALL DITCHES SHALL DRAIN WITH A MINIMUM GRADES OF 0.5%

THE CROSS SLOPE OF SIDEWALKS AND BARRIER FREE SIDEWALK CURB RAMPS SHALL BE 1.5%. THE LONGITUDINAL GRADE OF BARRIER FREE SIDEWALK CURB RAMPS SHALL NOT EXCEED 8.33%. ALL SIDEWALK RAMPS SHALL BE CONSTRUCTED ACCORDING TO S.D.D. 3.03. AT ALL OTHER LOCATIONS THE LONGITUDINAL GRADE OF SIDEWALKS SHALL NOT EXCEED 5.0 % OR THE ADJACENT STREET GRADE WHICHEVER IS GREATER NOR BE LESS THAN 0.5% AND SHALL DRAIN TOWARD STORM SEWER INLETS. SIDE SLOPES WITHIN TEN FEET OF A PUBLIC SIDEWALK SHALL NOT EXCEED 4.00:1. ALL SIDEWALK AND SIDEWALK RAMP ELEVATIONS AND GRADES SHALL BE FIELD VERIFIED AND SET TO COMPLY WITH THE CITY OF MADISON STANDARD SPECIFICATIONS AND THE A.D.A. GUIDELINES.

OBTAIN A PRINT OUT OF THE ALIGNMENT FROM THE CITY ENGINEER PRIOR TO STAKING THIS PROJECT.

CURB STATION AND OFFSETS SHALL BE TO THE FACE OF CURB UNLESS OTHERWISE INDICATED. CURB ELEVATIONS SHALL BE TO THE TOP OF CURB (OR EXTENDED TOP OF CURB FOR DRIVEWAYS OR RAMPS) UNLESS OTHERWISE INDICATED.

POWER POLES AND OTHER OBSTRUCTIONS SHALL BE MOVED TO PROVIDE 2 FEET MINIMUM OF CLEAR DISTANCE FROM ANY FACE OF CURB OR EDGE OF SIDEWALK.

ANY INFORMATION SHOWN ON THIS PLAN, WHICH IS NOT PART OF THIS PROJECT, IS PRELIMINARY AND NOT FOR CONSTRUCTION.

THERE MAY BE EXISTING UTILITIES OR OTHER FEATURES WHICH ARE EITHER NOT SHOWN OR SHOWN INCORRECTLY ON THIS PLAN. IT IS THE RESPONSIBILITY OF THE DEVELOPER TO LOCATE AND IDENTIFY ALL UTILITIES AND TOPOGRAPHY WHICH MAY AFFECT THE CONSTRUCTION OF THESE IMPROVEMENTS.

ALL PERMANENT SIGNING AND POSTING WILL BE DETERMINED AND PROVIDED BY THE TRAFFIC ENGINEERING DIVISION, FOLLOWING CONSTRUCTION OF THESE IMPROVEMENTS.

THE DEVELOPER SHALL PROVIDE, INSTALL AND MAINTAIN ALL STREET END BARRICADES, SIGNING AND TRAFFIC CONTROL, AS REQUIRED BY THE CITY TRAFFIC ENGINEER.

PAVEMENT SAWCUTS SHALL BE AS DIRECTED BY THE CITY CONSTRUCTION ENGINEER. SAWCUTS SHOWN ON THE PLAN ARE APPROXIMATE.

CURB ON CUL DE SACS SHALL BE INSTALLED ACCORDING TO SDD 3.05.

CONVENTIONAL SIGNS

FIELD VERIFY ALL UTILITY LOCATIONS

GAS ——— G ———

STORM SEWER ——— ST ———

SANITARY SEWER ——— SAN ———

WATER ——— W ———

OVERHEAD ELECTRIC ——— OH ———

POWER POLE 

ADA COMPLIANT RAMP W/
DETECTABLE WARNING FIELD 

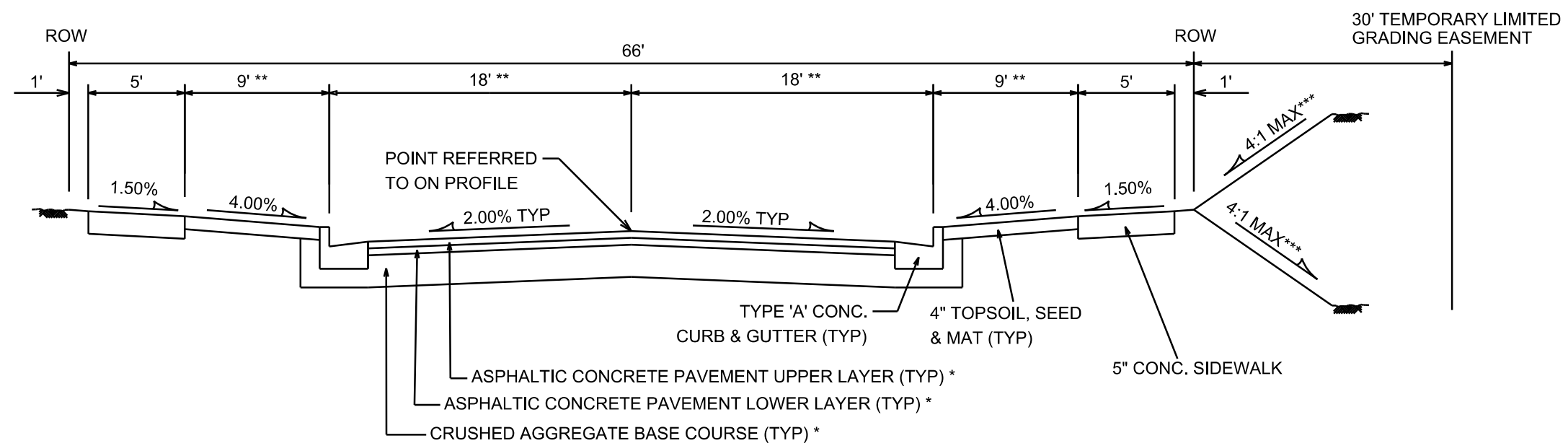
COMBUSTIBLE FLUIDS 

PLOT SCALE: _____

PLOT NAME: _____

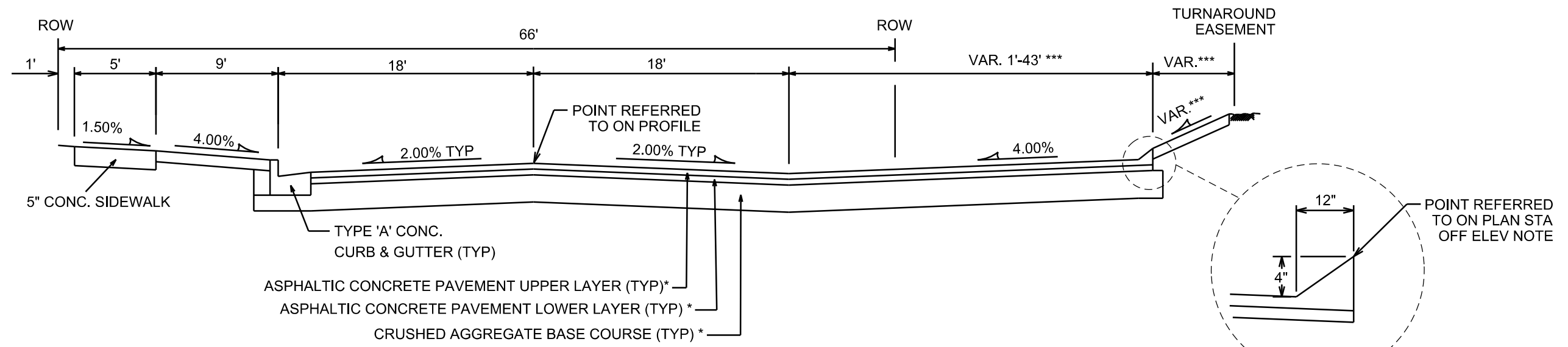
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



TYPICAL SECTION

GENOMIC DRIVE
STA 10+58 TO STA 17+15
NOT TO SCALE



TYPICAL SECTION

GENOMIC DRIVE TEMPORARY TURNAROUND
STA 17+15 TO 18+09
NOT TO SCALE

* CITY OF MADISON MINIMUM PAVEMENT DESIGN

TYPE	CRUSHED AGG. BASE COURSE		ASPHALTIC CONCRETE PAVEMENT			
	LOWER LAYER GRADATION 1	UPPER LAYER GRADATION 2	LOWER LAYER TYPE	LOWER LAYER THICKNESS	UPPER LAYER TYPE	UPPER LAYER THICKNESS
A	6"	4"	E-0.3	1.75"	E-0.3	1.75"
B	6"	4"	E-1	2.50"	E-1	1.75"
C	6"	4"	E-3	3.50"	E-3	1.75"

NOTES:

* TYPE 'A' PAVEMENT SHALL BE USED ON GENOMIC DRIVE.

** VAR. FROM STA 10+58 TO 11+50.

*** SEE CROSS SECTIONS FOR OFFSETS, GRADES AND SLOPES.

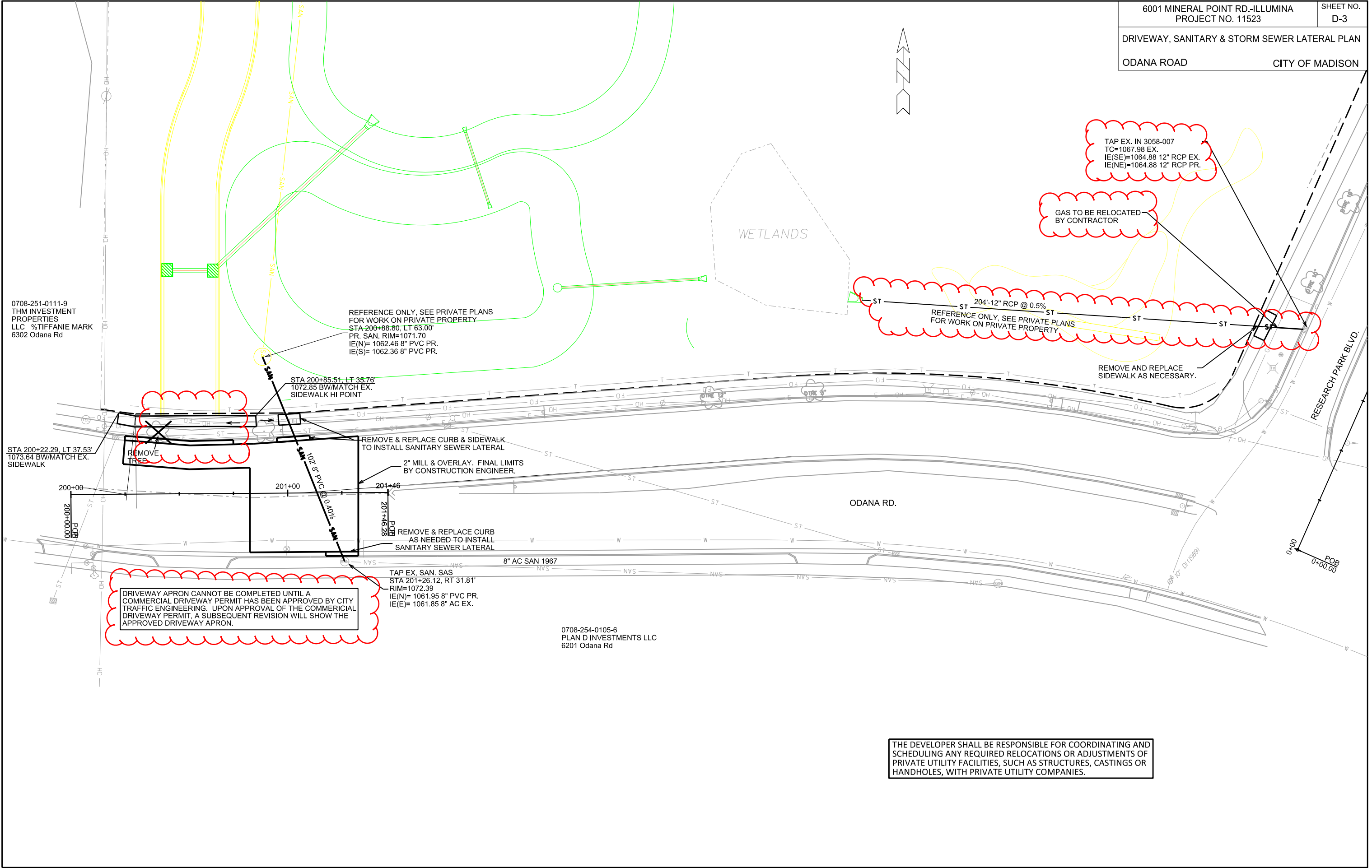
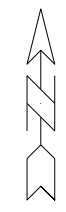
"CARLSON SCREED" RAISED
PAVEMENT EDGE
NOT TO SCALE

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



0708-251-0111-9
THM INVESTMENT
PROPERTIES
LLC %TIFFANIE MARK
6302 Odana Rd

REFERENCE ONLY, SEE PRIVATE PLANS
FOR WORK ON PRIVATE PROPERTY
STA 200+88.80, LT 63.00'
PR. SAN, RIM=1071.70
IE(N)= 1062.46 8" PVC PR.
IE(S)= 1062.36 8" PVC PR.

STA 200+85.51, LT 35.76'
1072.85 BW/MATCH EX.
SIDEWALK HI POINT

STA 200+22.29, LT 37.53'
1073.64 BW/MATCH EX.
SIDEWALK

REMOVE & REPLACE CURB & SIDEWALK
TO INSTALL SANITARY SEWER LATERAL

2" MILL & OVERLAY, FINAL LIMITS
BY CONSTRUCTION ENGINEER.

REMOVE & REPLACE CURB
AS NEEDED TO INSTALL
SANITARY SEWER LATERAL

TAP EX. SAN. SAS
STA 201+26.12, RT 31.81'
RIM=1072.39
IE(N)= 1061.95 8" PVC PR.
IE(E)= 1061.85 8" AC EX.

DRIVEWAY APRON CANNOT BE COMPLETED UNTIL A
COMMERCIAL DRIVEWAY PERMIT HAS BEEN APPROVED BY CITY
TRAFFIC ENGINEERING. UPON APPROVAL OF THE COMMERCIAL
DRIVEWAY PERMIT, A SUBSEQUENT REVISION WILL SHOW THE
APPROVED DRIVEWAY APRON.

0708-254-0105-6
PLAN D INVESTMENTS LLC
6201 Odana Rd

TAP EX. IN 3058-007
TC=1067.98 EX.
IE(SE)=1064.88 12" RCP EX.
IE(NE)=1064.88 12" RCP PR.

GAS TO BE RELOCATED
BY CONTRACTOR

204'-12" RCP @ 0.5%
REFERENCE ONLY, SEE PRIVATE PLANS
FOR WORK ON PRIVATE PROPERTY

REMOVE AND REPLACE
SIDEWALK AS NECESSARY.

THE DEVELOPER SHALL BE RESPONSIBLE FOR COORDINATING AND
SCHEDULING ANY REQUIRED RELOCATIONS OR ADJUSTMENTS OF
PRIVATE UTILITY FACILITIES, SUCH AS STRUCTURES, CASTINGS OR
HANDHOLES, WITH PRIVATE UTILITY COMPANIES.

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

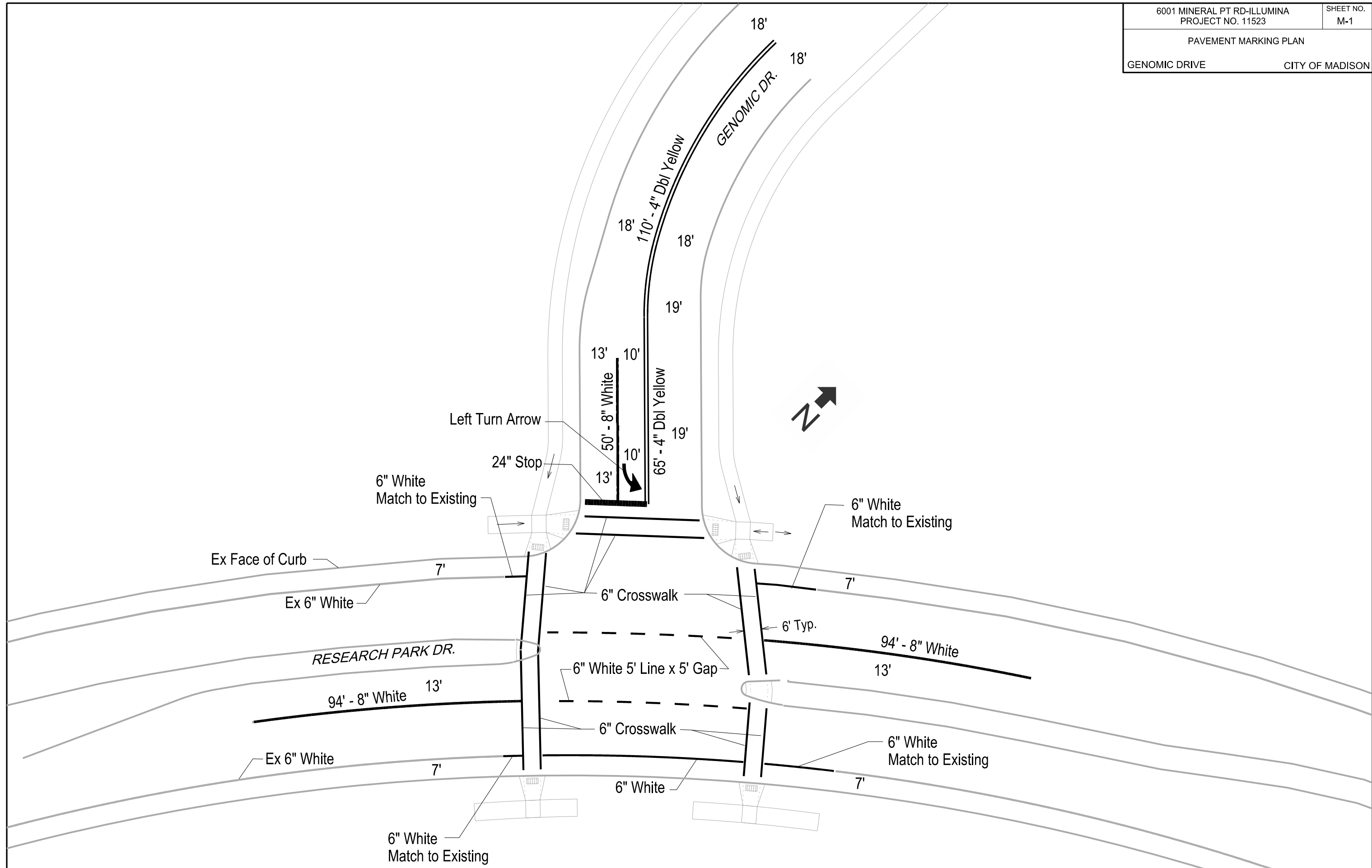
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

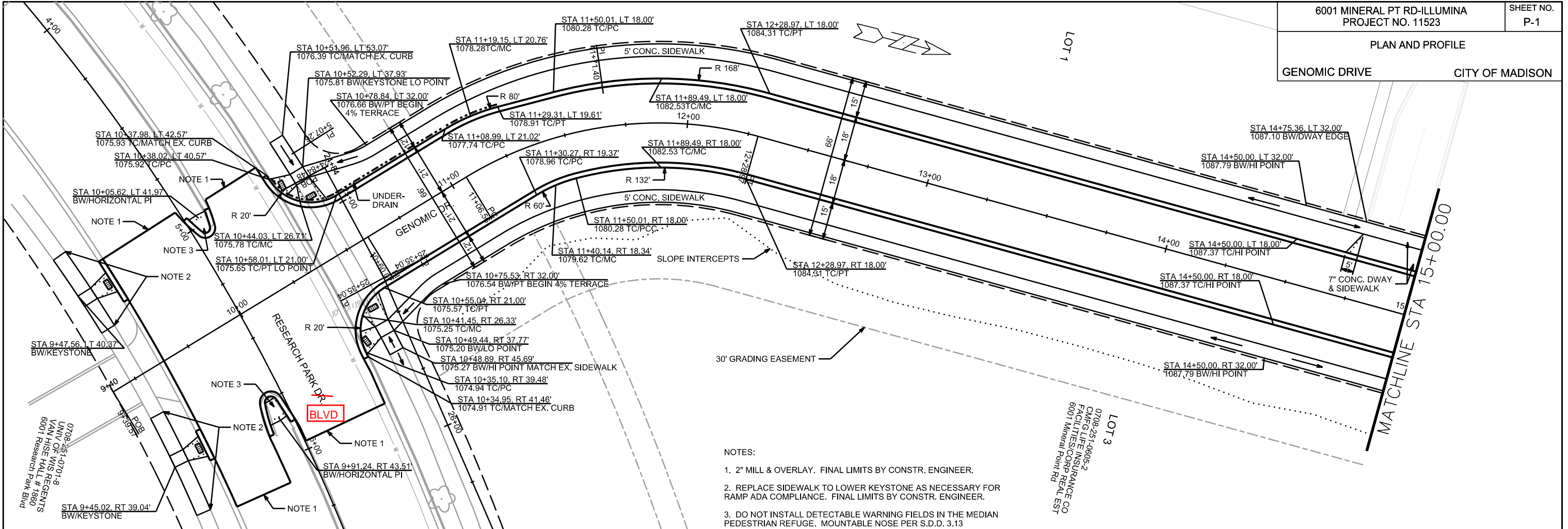
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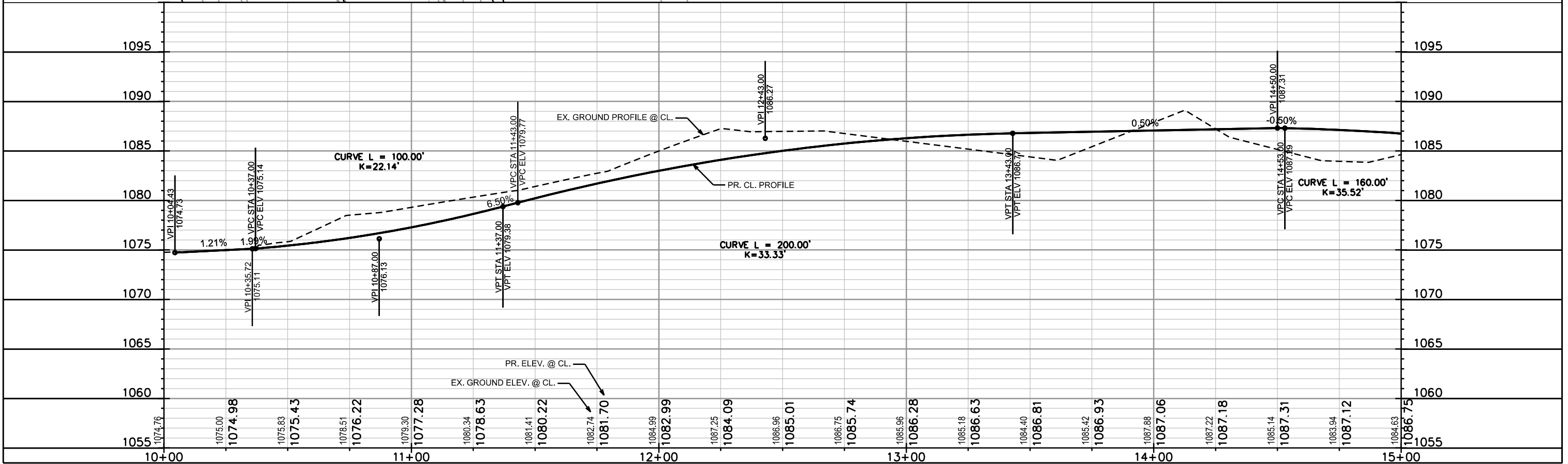
 REV. DATE:

 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



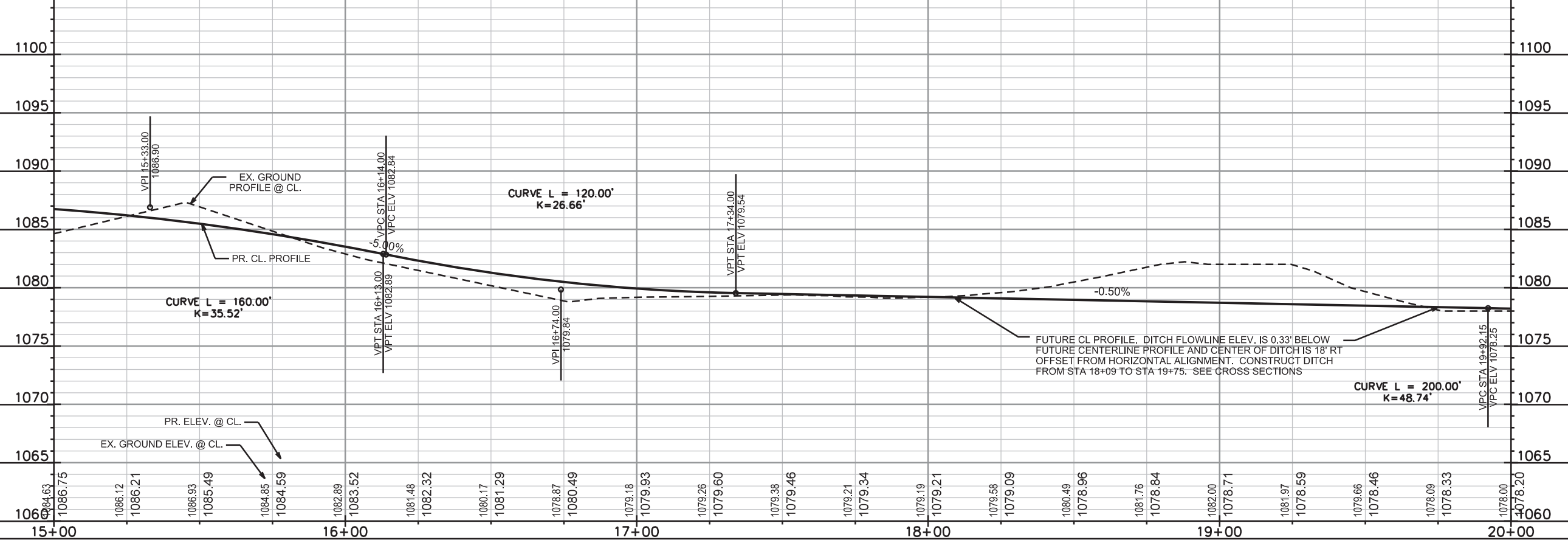
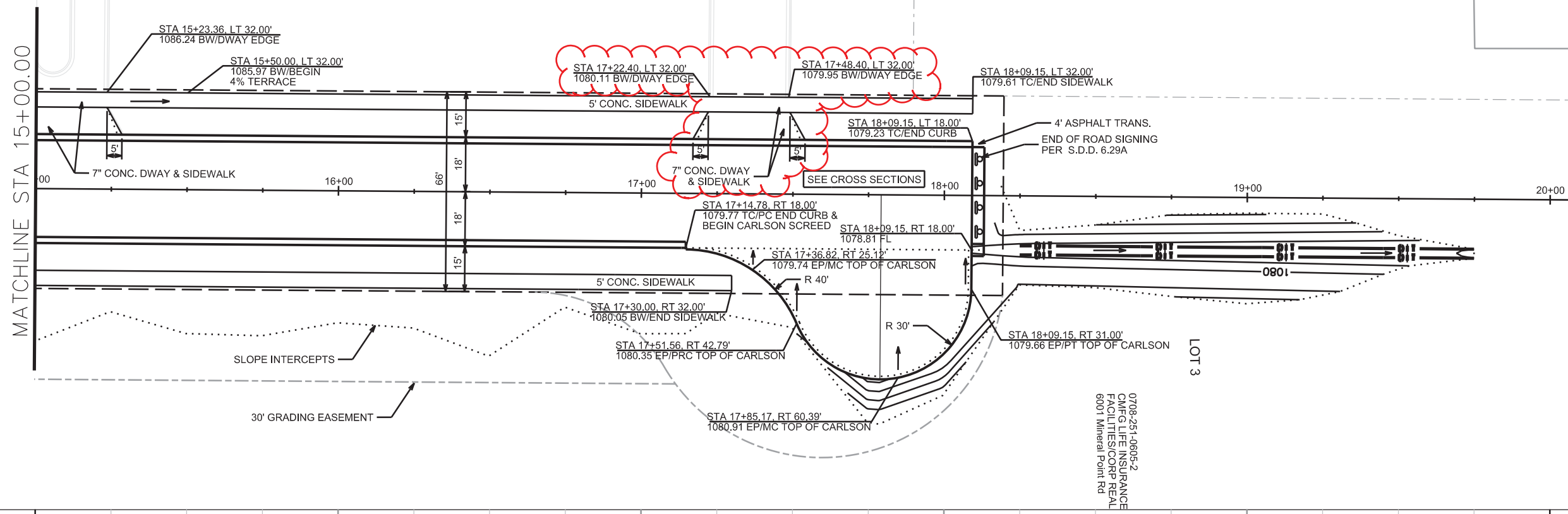


- NOTES:
- 2" MILL & OVERLAY. FINAL LIMITS BY CONSTR. ENGINEER.
 - REPLACE SIDEWALK TO LOWER KEYSTONE AS NECESSARY FOR RAMP ADA COMPLIANCE. FINAL LIMITS BY CONSTR. ENGINEER.
 - DO NOT INSTALL DETECTABLE WARNING FIELDS IN THE MEDIAN PEDESTRIAN REFUGE. MOUNTABLE NOSE PER S.D.D. 3.13



PLAN AND PROFILE

GENOMIC DRIVE CITY OF MADISON
REV. 2017 09-13 BY JPS



0708-251-06005-2
CMFG LIFE INSURANCE
FACILITIES/CORP REAL
6001 Mineral Point Rd

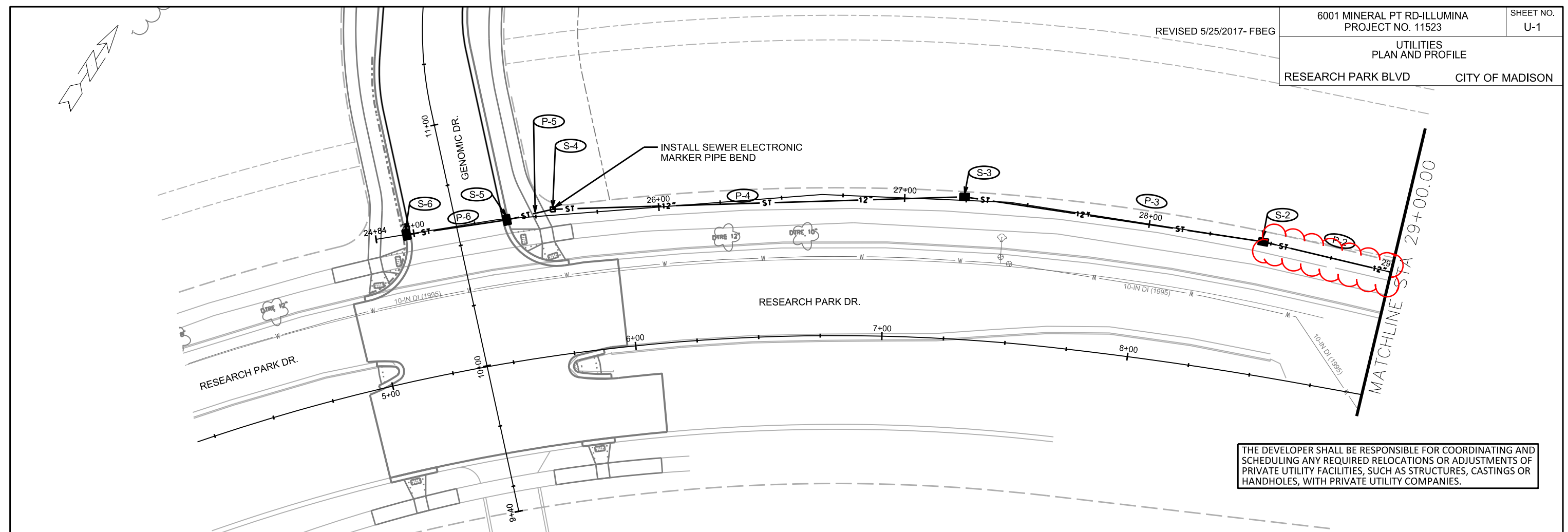
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PLOT NAME: _____

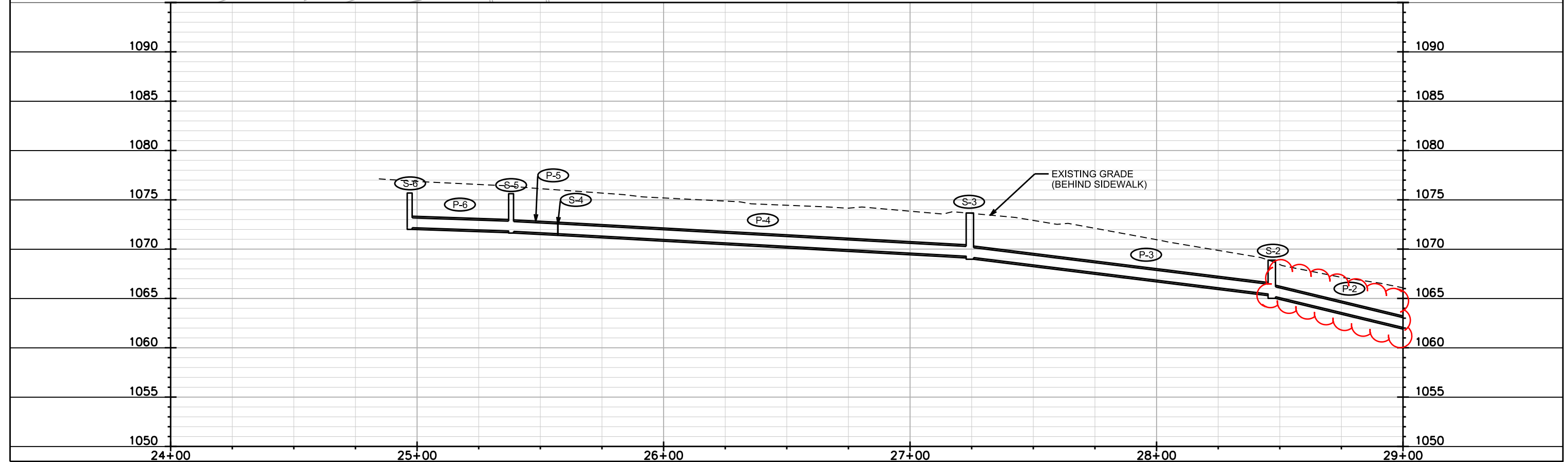
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REVISED 5/25/2017- FBEG



THE DEVELOPER SHALL BE RESPONSIBLE FOR COORDINATING AND SCHEDULING ANY REQUIRED RELOCATIONS OR ADJUSTMENTS OF PRIVATE UTILITY FACILITIES, SUCH AS STRUCTURES, CASTINGS OR HANDHOLES, WITH PRIVATE UTILITY COMPANIES.

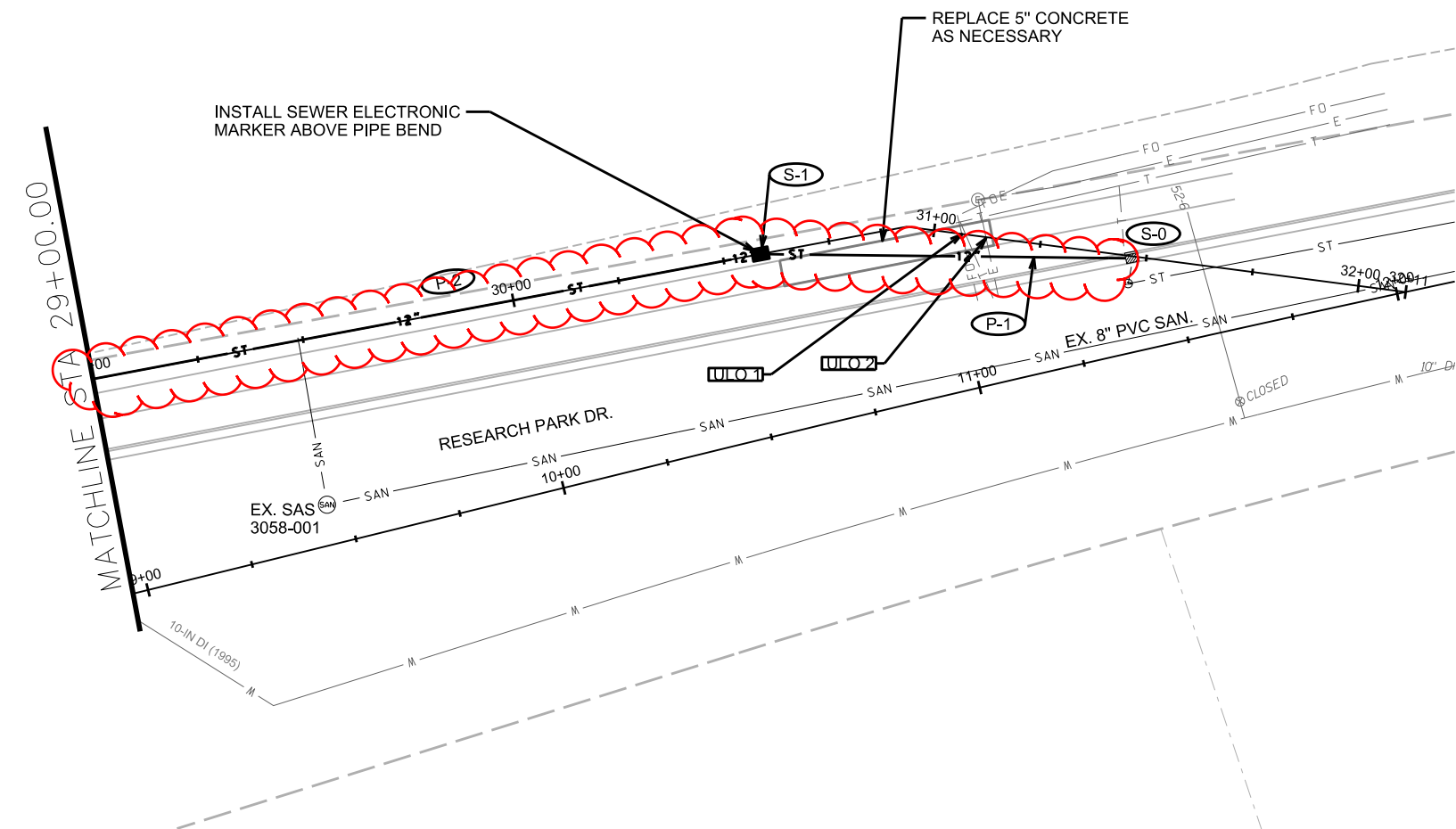
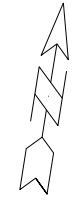


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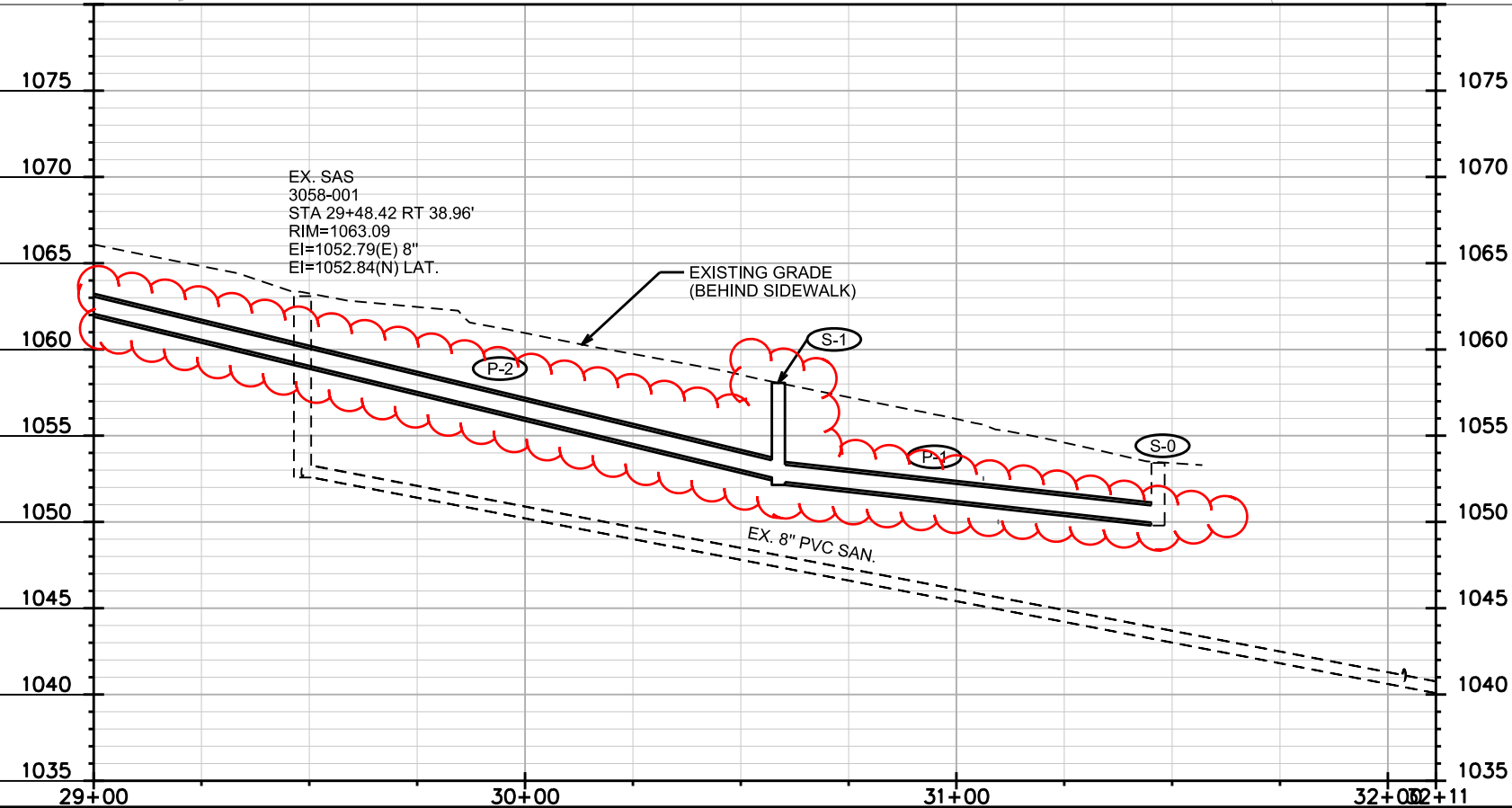
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



THE DEVELOPER SHALL BE RESPONSIBLE FOR COORDINATING AND SCHEDULING ANY REQUIRED RELOCATIONS OR ADJUSTMENTS OF PRIVATE UTILITY FACILITIES, SUCH AS STRUCTURES, CASTINGS OR HANDHOLES, WITH PRIVATE UTILITY COMPANIES.



EX. SAS
3058-001
STA 29+48.42 RT 38.96'
RIM=1063.09
EI=1052.79(E) 8"
EI=1052.84(N) LAT.

EXISTING GRADE
(BEHIND SIDEWALK)

EX. 8" PVC SAN.

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

STORM SEWER SCHEDULE

* Revised 2/25/2017-FBEG

6001 MINERAL PT RD-ILLUMINA
PROJECT NO. 11523

SHEET NO.
U-3

STORM SEWER SCHEDULE
RESEARCH PARK BLVD CITY OF MADISON

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
RESEARCH PARK BLVD (STORM)							
S-0	31+46.74	RT-0.47	STM TAP	-	1049.63	-	TAP EX. IN 3158-003
* S-1	30+58.73	CL	H INLET	1058.06	1052.40	5.66	w/ R-1878-B7L
* S-2	28+46.76	CL	H INLET	1068.88	1065.36	3.52	w/ R-1878-B7L
* S-3	27+24.27	LT-1.44	H INLET	1073.66	1069.24	4.42	w/ R-1878-B7L
S-4	25+57.11	LT-2.40	11.25 DEGREE BEND	-	1071.56	-	-
S-5	25+38.14	RT-0.46	H INLET	1075.62	1071.82	3.80	w/ R-3067-7004-V
S-6	24+97.00	RT-0.16	H INLET	1075.69	1072.19	3.50	LP; w/ R-3067-7004-VB

PROPOSED STORM PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
RESEARCH PARK BLVD (STORM)										
* P-1	S-0	S-1	1049.88	1052.40	87.0	84.0	3.00%	12"	TYPE II	-
* P-2	S-1	S-2	1052.40	1065.36	212.0	209.0	6.20%	12"	TYPE II	-
P-3	S-2	S-3	1065.36	1069.24	122.5	119.5	3.25%	12"	TYPE II	-
P-4	S-3	S-4	1069.24	1071.56	167.0	165.5	1.40%	12"	TYPE II	-
P-5	S-4	S-5	1071.56	1071.82	19.0	18.0	1.44%	12"	TYPE II	-
P-6	S-5	S-6	1071.82	1072.19	41.0	39.0	0.95%	12"	TYPE I	-

STORM SEWER ULOs

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	TOP ELEV.	NOTES
RESEARCH PARK BLVD (STORM)					
ULO 1	31+06.51	CL	FIBER & TELEPHONE	1052.65	STORM REVISED
ULO 2	31+12.17	CL	ELEC	1050.14	NO CONFLICT

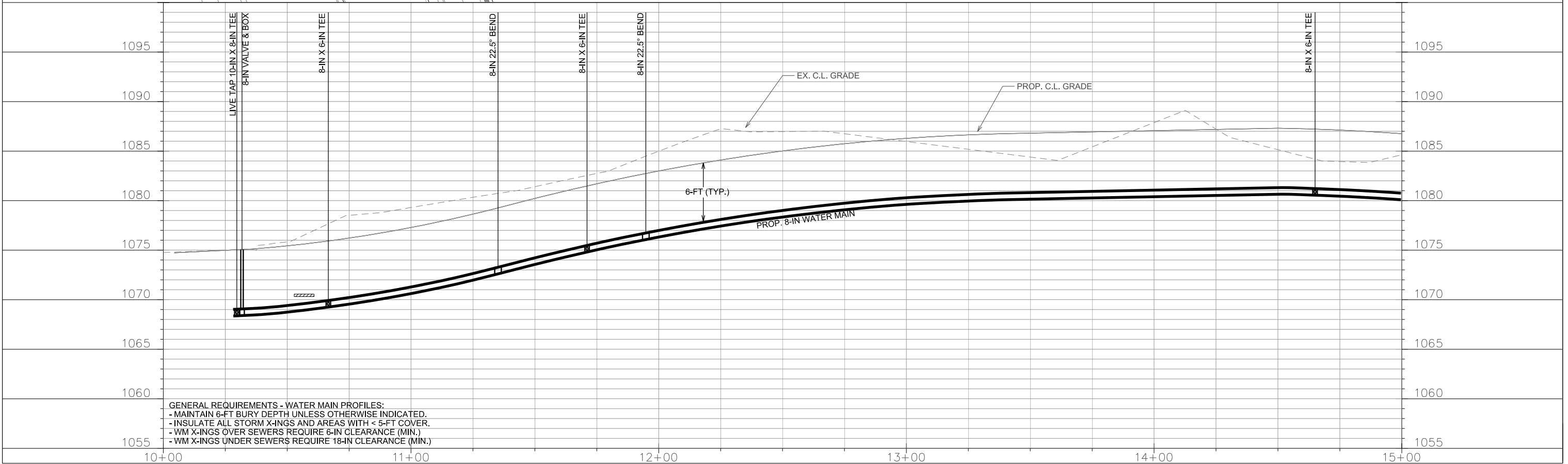
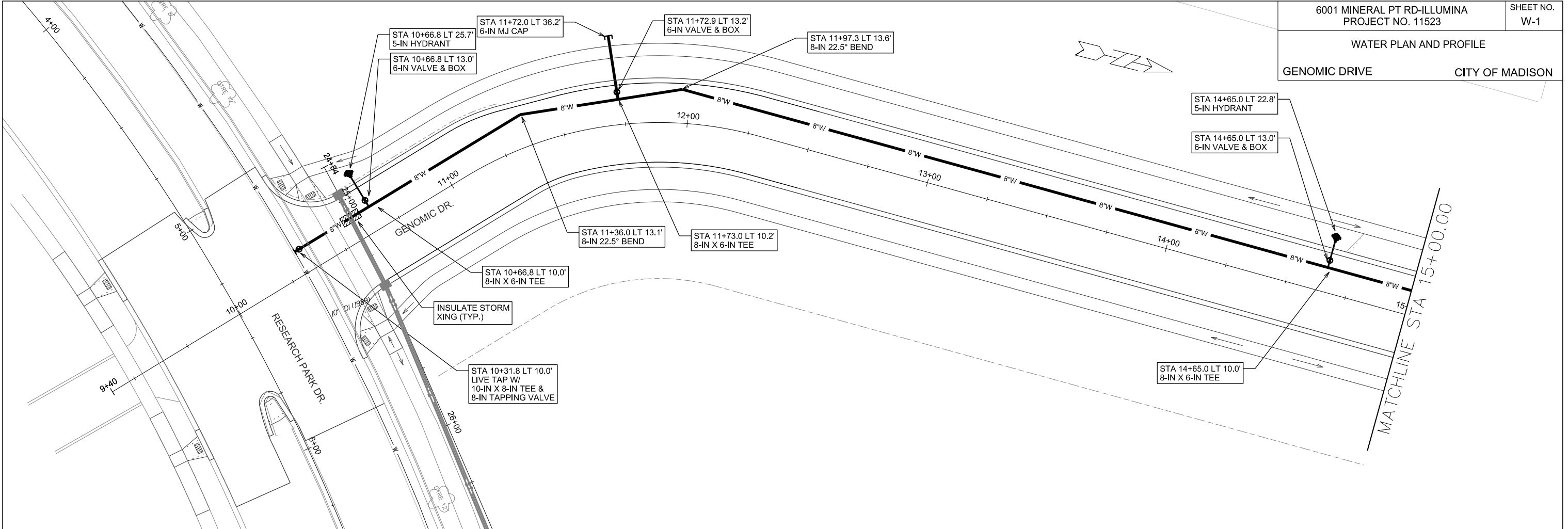
NOTE: PLAN LENGTH (PAY LENGTH) IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTH IS ACTUAL LENGTH OF PIPE FROM STRUCTURE WALL TO STRUCTURE WALL. SLOPE CALCULATED USING PIPE LENGTH.

STANDARD NOTES:

- ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; HERCP = HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE; DNA = DOES NOT APPLY; SAS = SEWER ACCESS STRUCTURE; LP = LOW POINT INLET STRUCTURE; FP = FIELD POURED STRUCTURE; TR = TOP OF CONCRETE ROOF; NCM = NO CROWN MATCH FOR PIPES; UD = UNDERDRAIN
- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS's.
- TOP OF CONCRETE ROOF (TR) IS 1.25' BELOW TOP OF CASTING UNLESS OTHERWISE NOTED.
- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.
- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.
- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT FADI EL MUSA OF CITY ENGINEERING AT (608) 243-5214 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO FELMUSAGONZALEZ@CITYOFMADISON.COM.

SPECIFIC NOTES

WATER PLAN AND PROFILE
GENOMIC DRIVE CITY OF MADISON



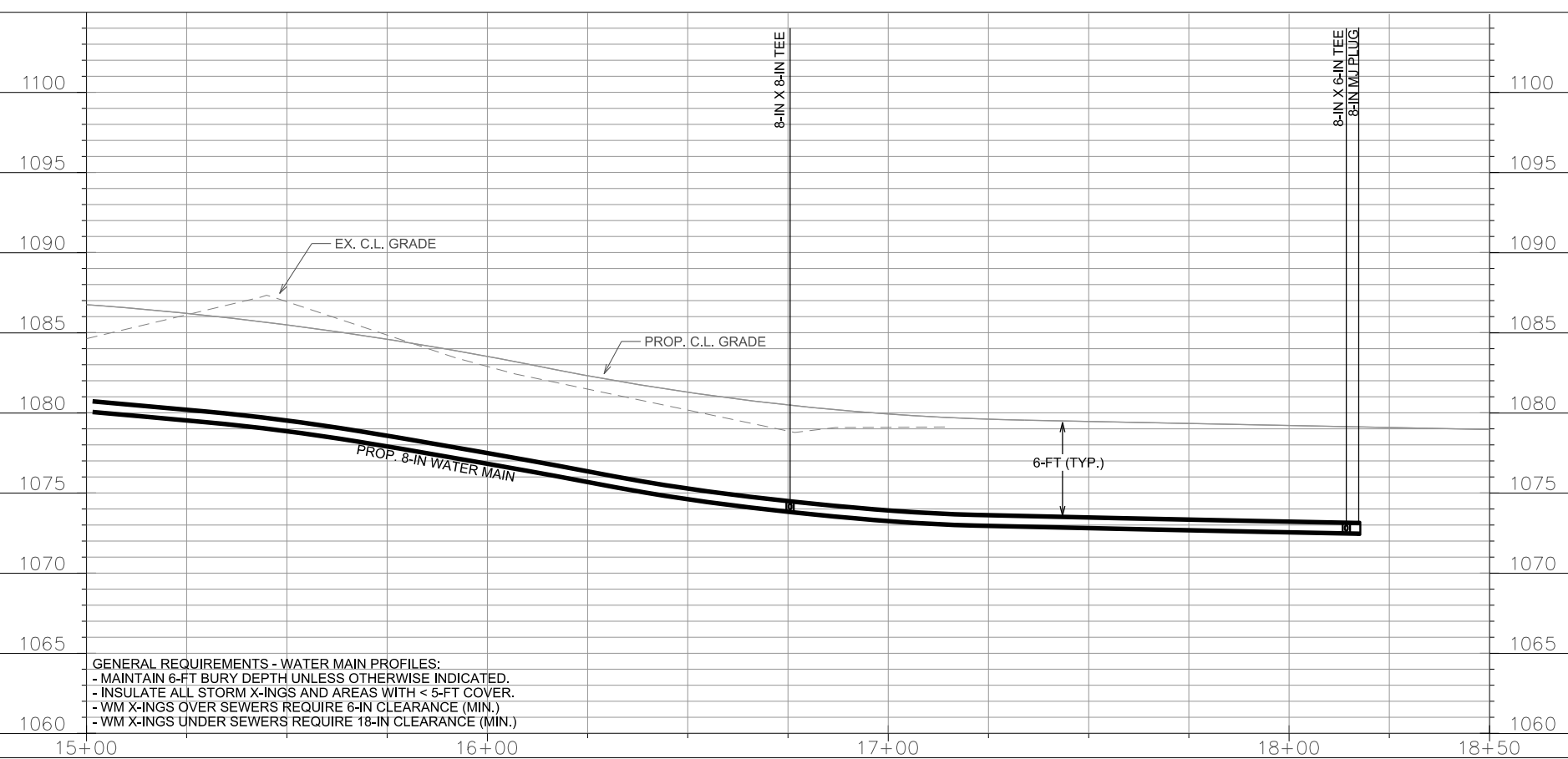
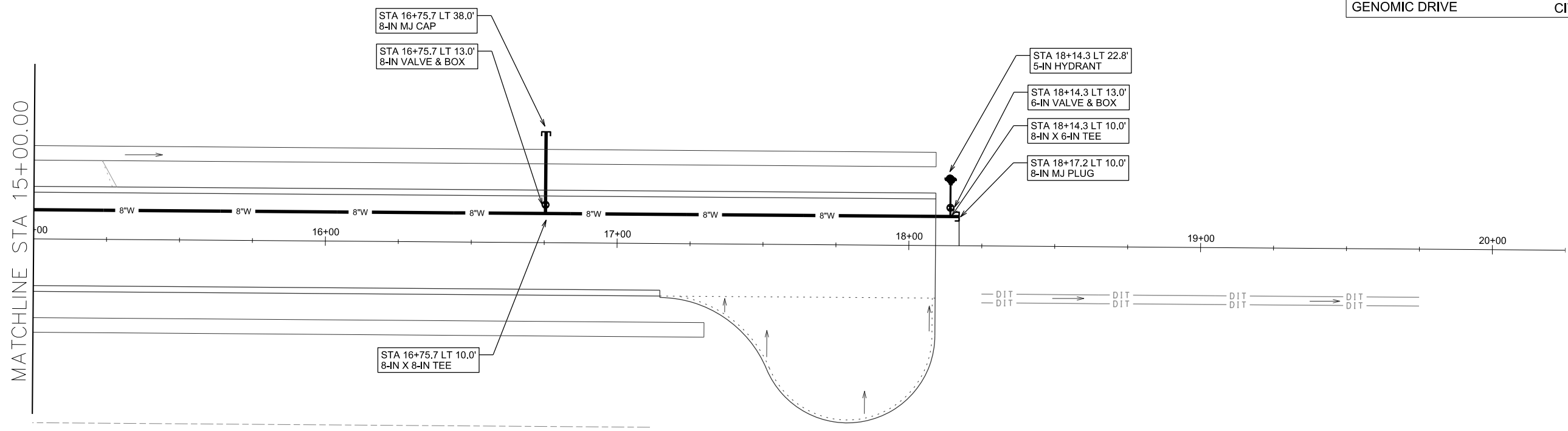
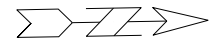
GENERAL REQUIREMENTS - WATER MAIN PROFILES:
 - MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.
 - INSULATE ALL STORM X-INGS AND AREAS WITH < 5-FT COVER.
 - WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)
 - WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CONSTRUCTION NOTES:

1. CONSTRUCT NEW WATER MAIN 6.0' BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. INSULATE MAIN WITH POLYSTYRENE BOARD AT UTILITY CROSSINGS OR OTHER AREAS IDENTIFIED BY ENGINEER AS HAVING INADEQUATE COVER.
 2. VERIFY SIZE OF EXISTING WATER SERVICES AND RECONNECT SERVICES AS INDICATED.
 3. MINIMIZE DISRUPTION OF SERVICE TO EXISTING CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.
 4. THE EXISTING UTILITIES SHOWN ON THIS PLAN REPRESENT THE BEST INFORMATION AVAILABLE TO THE WATER UTILITY AT THE TIME OF PLAN PREPARATION. CONTRACTOR IS RESPONSIBLE FOR HAVING EACH UTILITY LOCATED PRIOR TO COMMENCING WORK.
- WN1 REPLACE THE EXISTING LEAD SERVICE WITH A NEW COPPER SERVICE.
 - WN2 EXTEND AND RECONNECT THE EXISTING COPPER SERVICE TO THE NEW WATER MAIN.
 - WN3 EXISTING SERVICE TO BE ABANDONED WHEN THE WATER MAIN IS CUT OFF.
 - WN4 DISCONNECT FROM THE OLD WATER MAIN AND RECONNECT THE EXISTING COPPER WATER SERVICE LATERAL TO THE NEW WATER MAIN.
 - WN5 RELOCATE THE EXISTING FIRE HYDRANT.
 - WN6 ABANDON WATER VALVE ACCESS STRUCTURE.
 - WN7 FURNISH AND INSTALL THE NEW TOP SECTION FOR THE WATER ACCESS STRUCTURE.
 - WN8 ABANDON THE VALVE BOX.
 - WN9 FURNISH THE DITCH, COMPACTION, AND ALL MATERIALS AND LABOR FOR THE INSTALLATION OF NEW SERVICE LATERAL.
 - WN10 REMOVE AND SALVAGE EXISTING HYDRANT
 - WN11 REPLACE THE EXISTING COPPER SERVICE WITH A COPPER SERVICE
 - WN20+ SEE WATER IMPACT PLAN FOR CONNECTION POINT ISOLATION AND WATER SHUT-OFF NOTIFICATION INFORMATION.

ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:

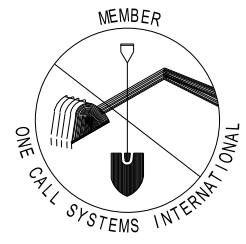
** ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.*

- 70-FT - 6-IN PIPE
- 830-FT - 8-IN PIPE
- 1 - 8-IN VALVE & BOX
- 4 - 6-IN VALVE & BOX
- 4 - 8-IN X 6-IN TEE
- 1 - 8-IN X 8-IN TEE
- 2 - 8-IN 22.5° BEND
- 1 - 8-IN MJ PLUG
- 1 - 6-IN MJ CAP
- 1 - 8-IN MJ CAP
- 3 - HYDRANT
- 990-FT - POLY WRAP
- 8-FT - 2-IN STYROFOAM INSULATION

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

CALL DIGGERS HOTLINE
TOLL FREE
811 OR 1-800-242-8511
FAX-A-LOCATE 1-800-338-3860
TDD (FOR HEARING IMPAIRED) 1-800-542-2289

WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.



MATERIALS SUPPLIED BY CITY:

** ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.*

- 1 - 10-IN X 8-IN TEE
- 1 - 8-IN TAPPING VALVE

ESTIMATE OF MATERIALS SALVAGED:

** ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.*

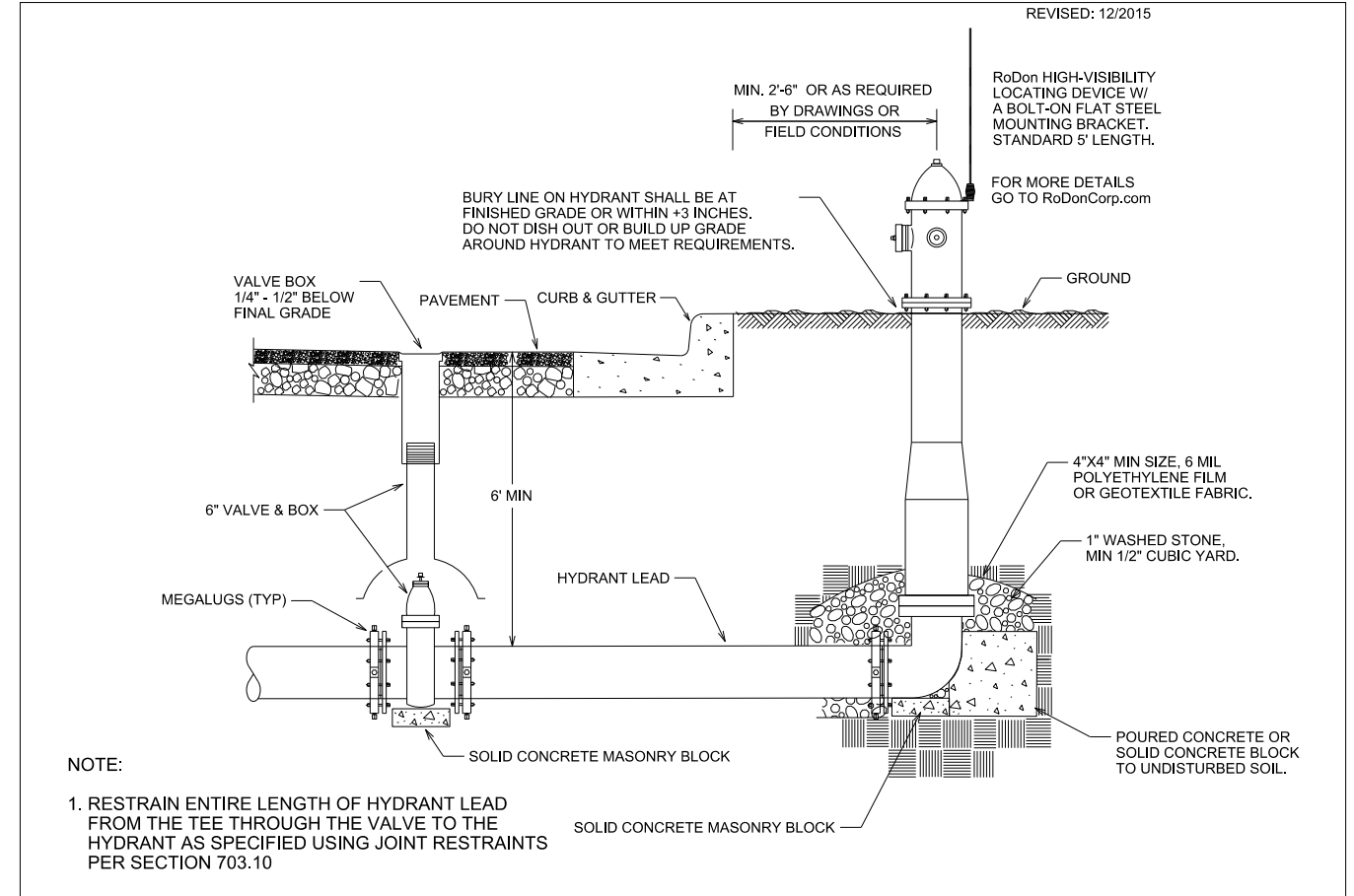
NONE

DISCLAIMER NOTE:
UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING WORK.

PART VII - WATER MAINS AND SERVICE LATERALS

DETAIL DRAWING NO. 7.04

REVISED: 12/2015



NOTE:

1. RESTRAIN ENTIRE LENGTH OF HYDRANT LEAD FROM THE TEE THROUGH THE VALVE TO THE HYDRANT AS SPECIFIED USING JOINT RESTRAINTS PER SECTION 703.10

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CROSS SECTIONS

GENOMIC DRIVE

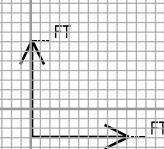
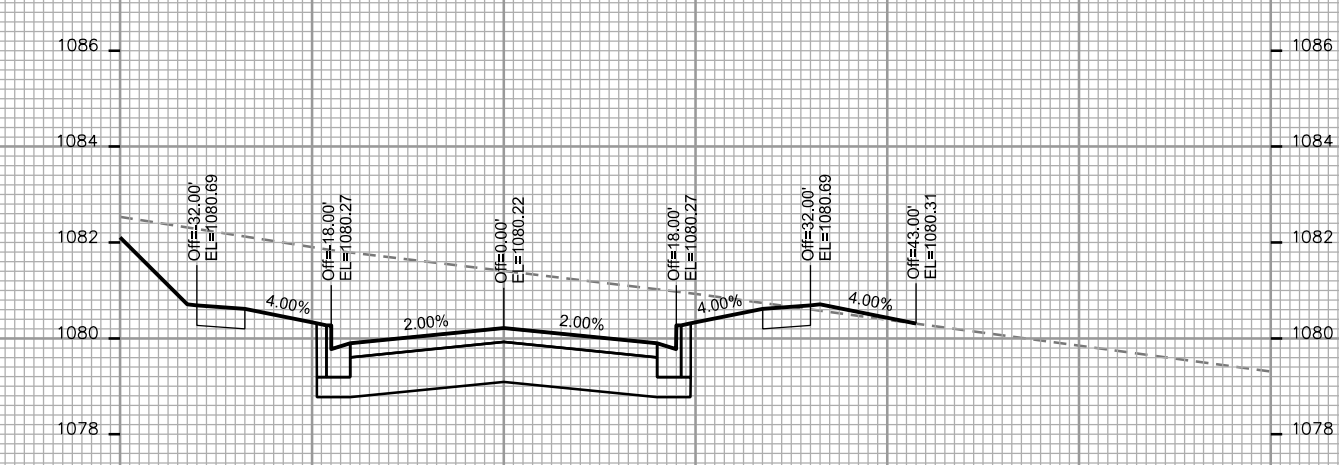
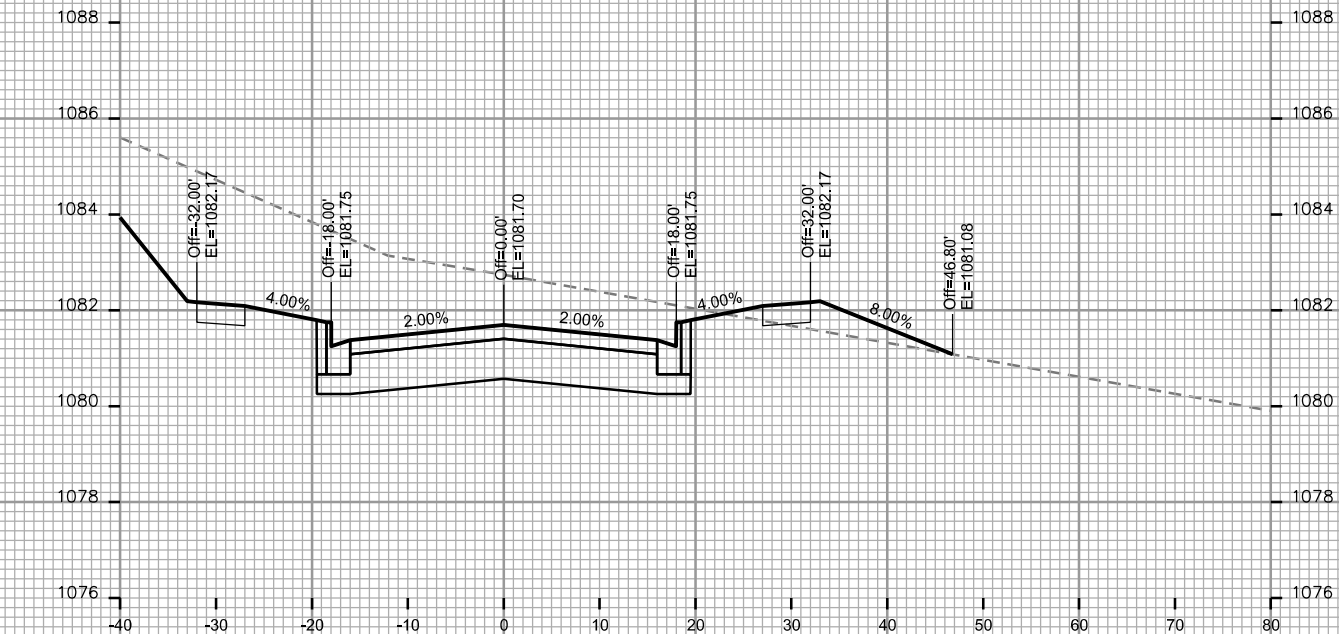
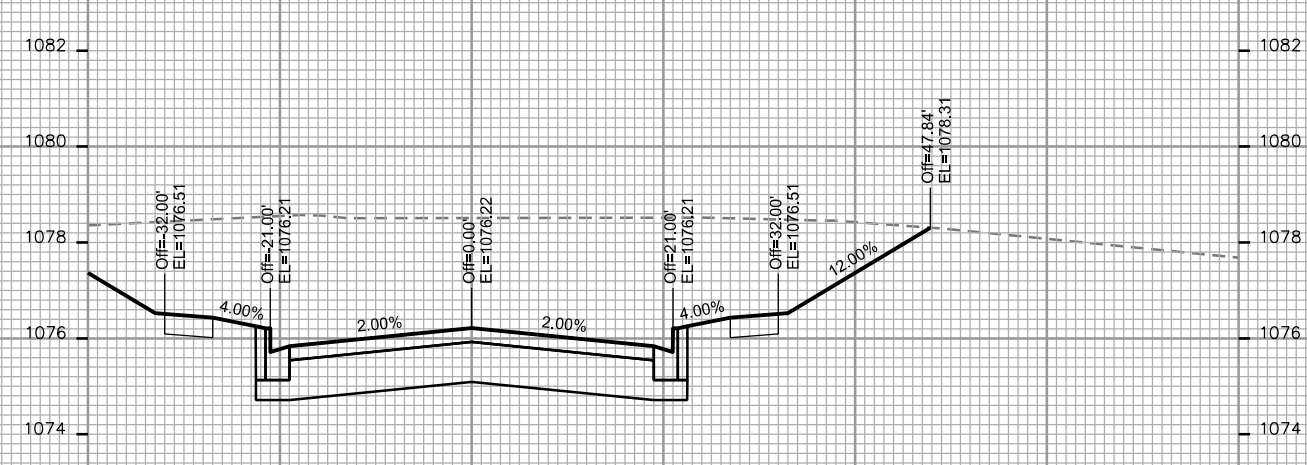
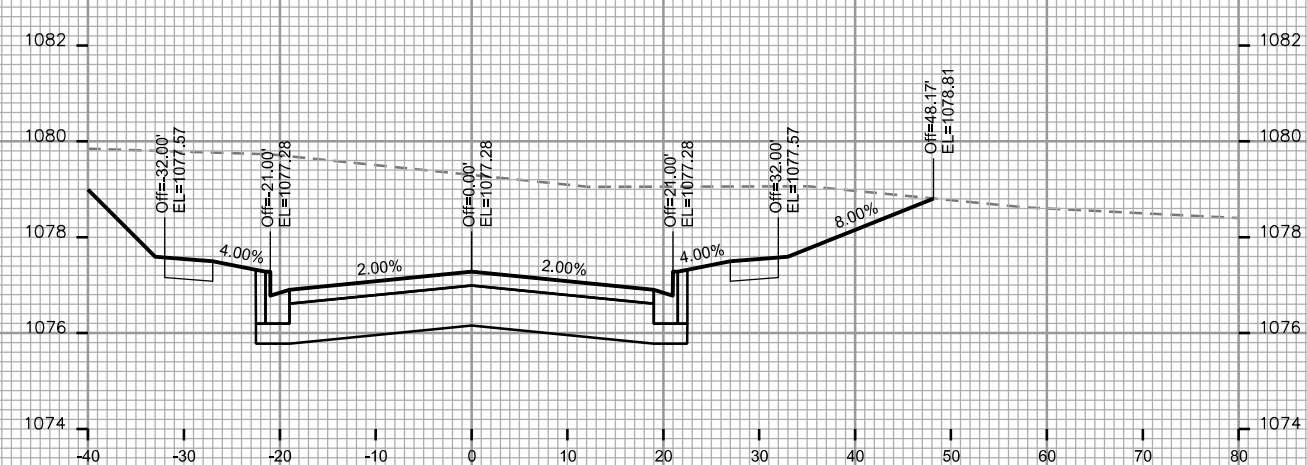
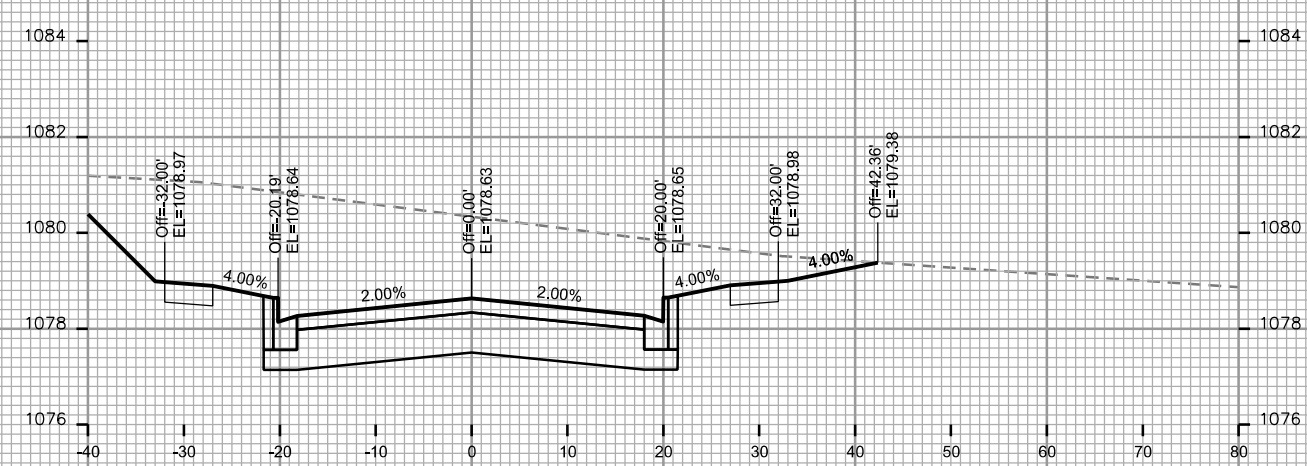
CITY OF MADISON

PLOT SCALE: _____

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REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



CROSS SECTIONS

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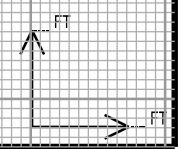
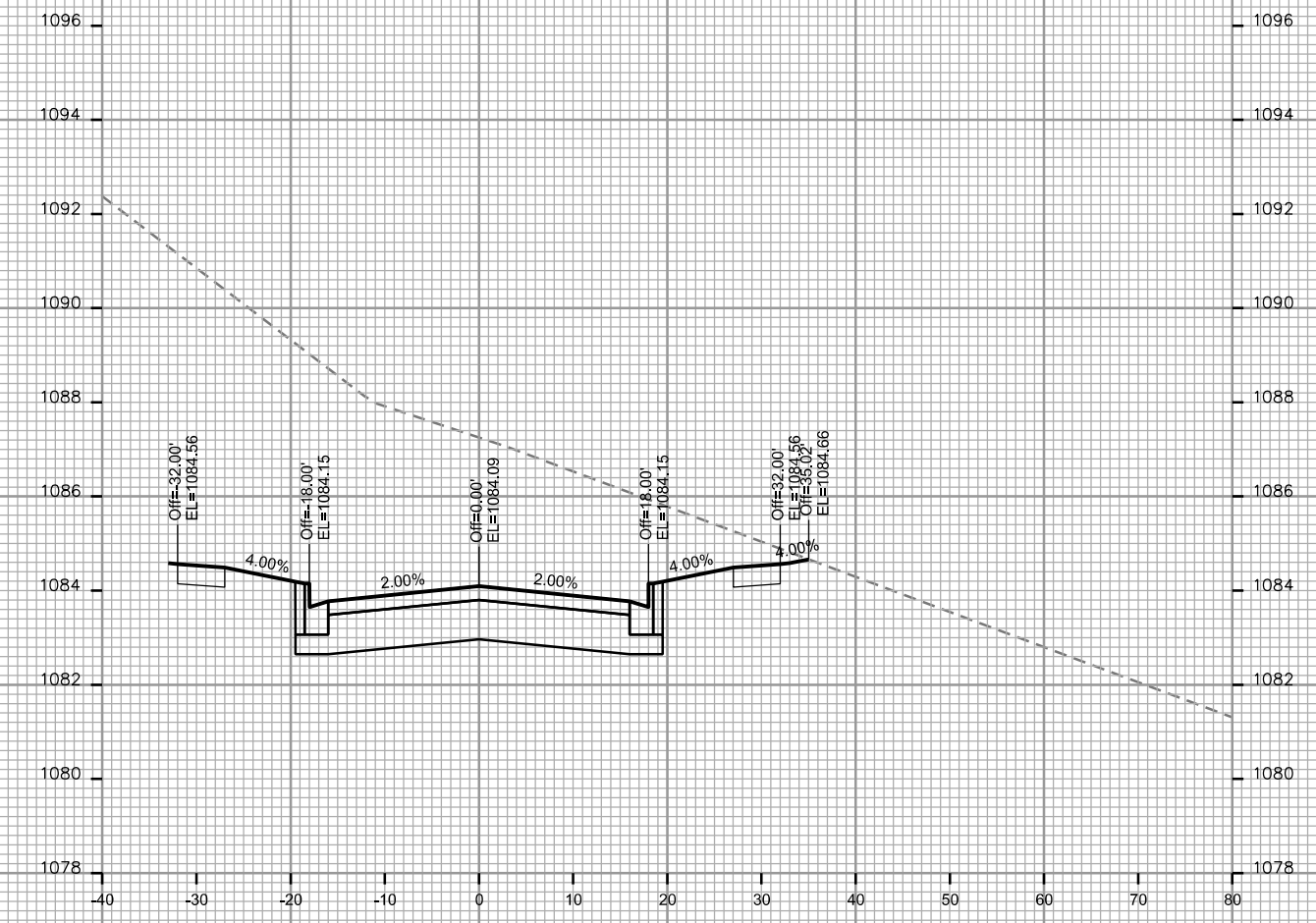
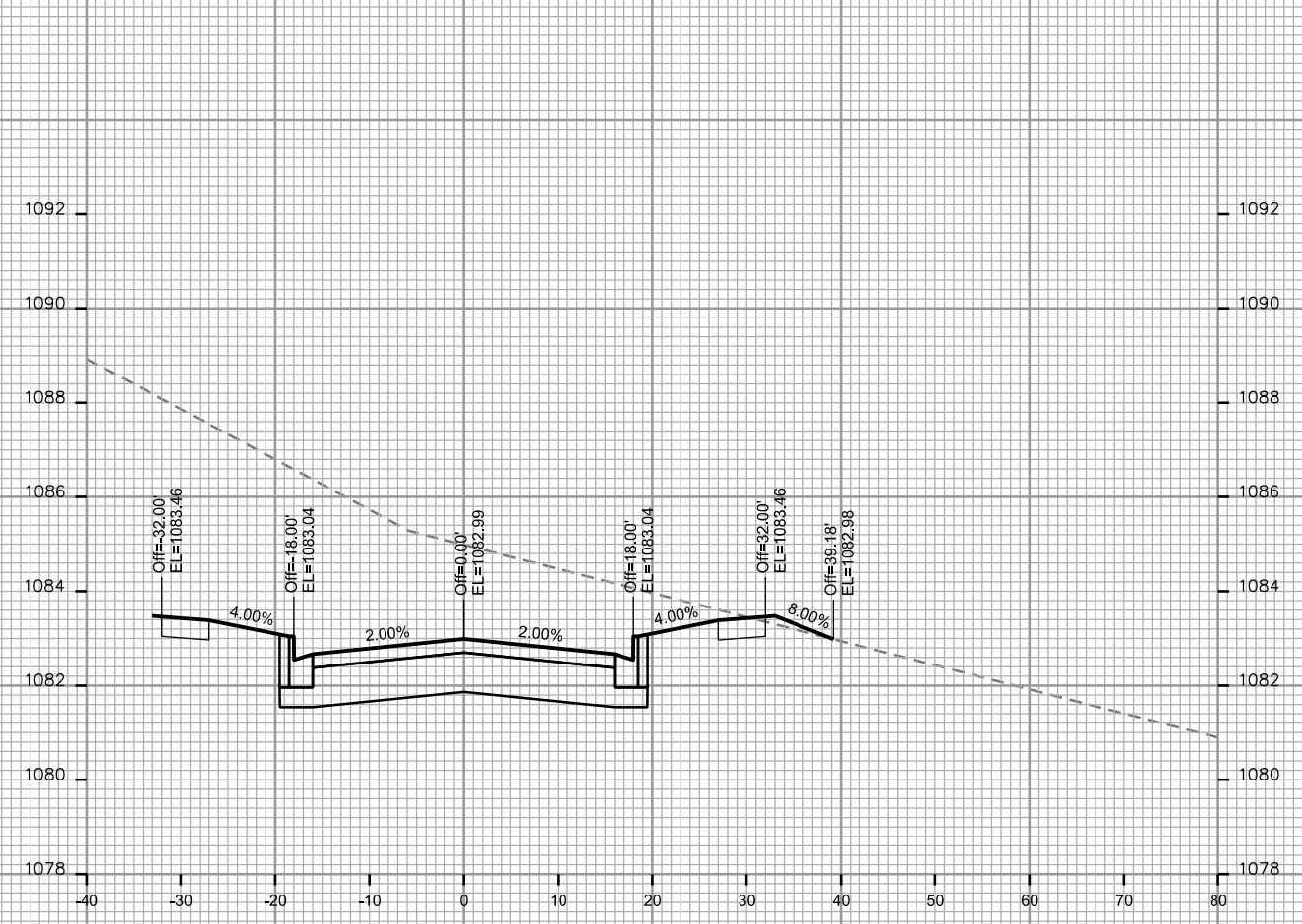
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PLOT SCALE: _____

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ORIGINATOR: CITY OF MADISON - STREETS DIVISION



CROSS SECTIONS

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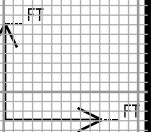
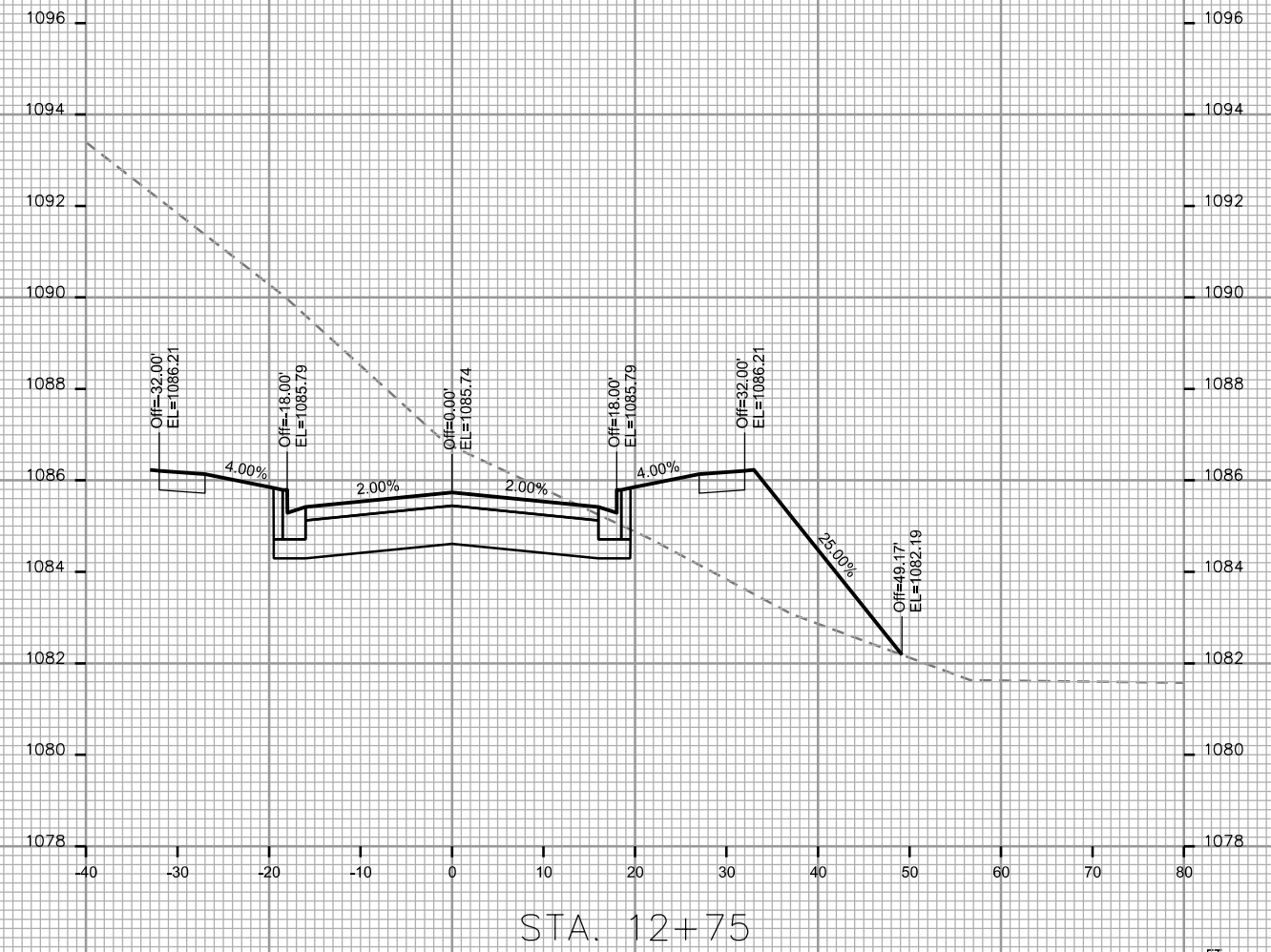
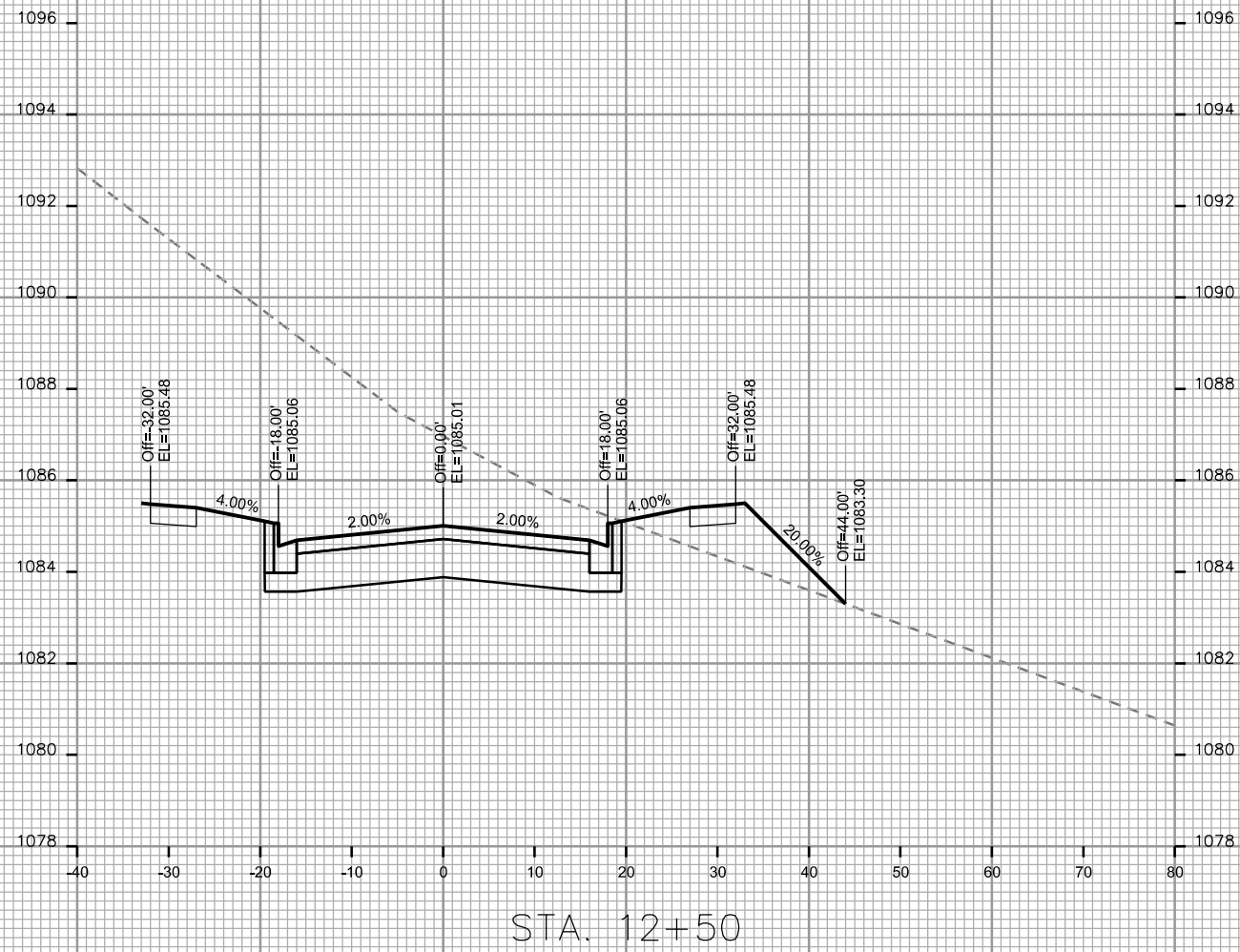
CITY OF MADISON

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CROSS SECTIONS

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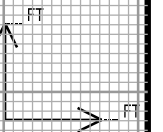
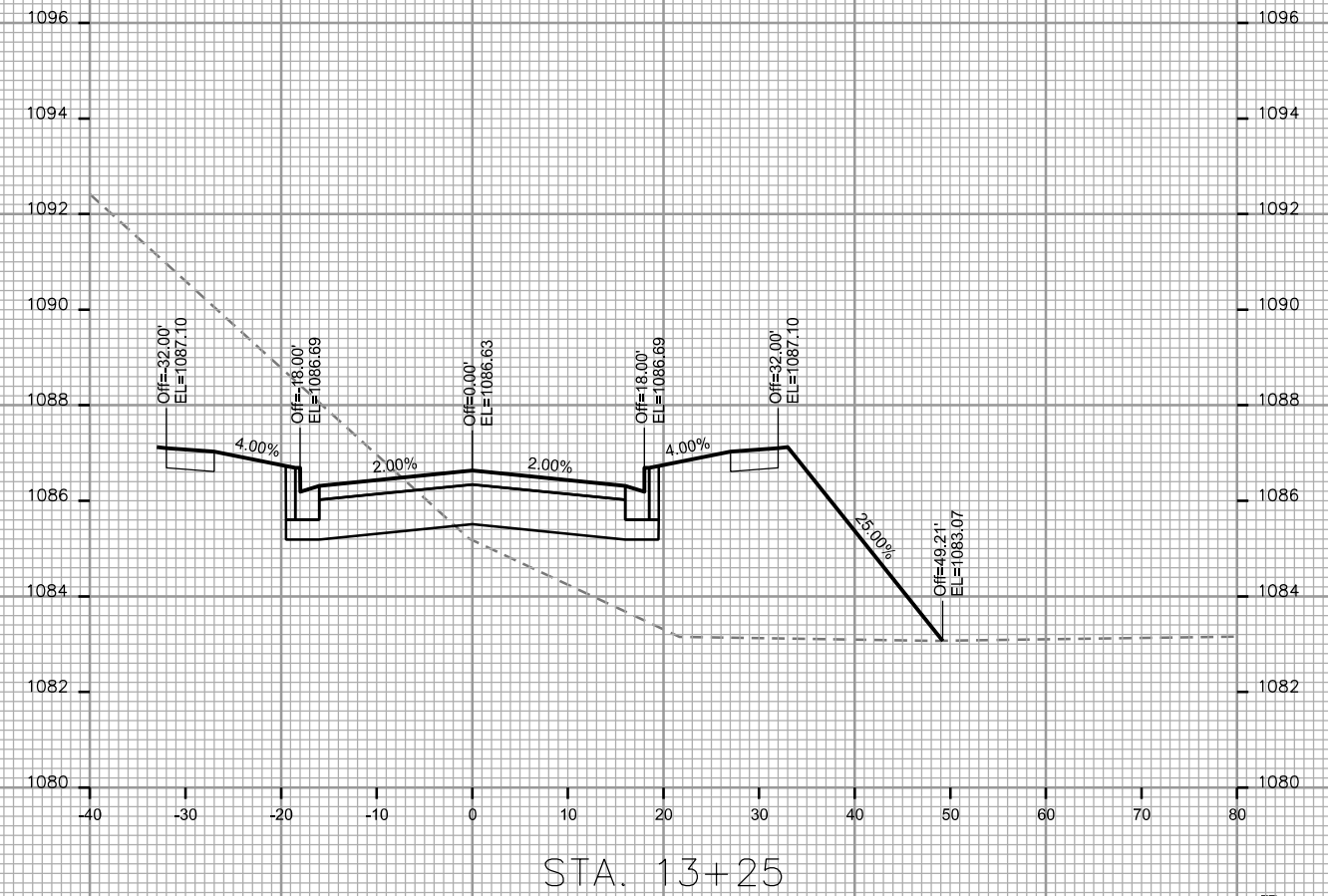
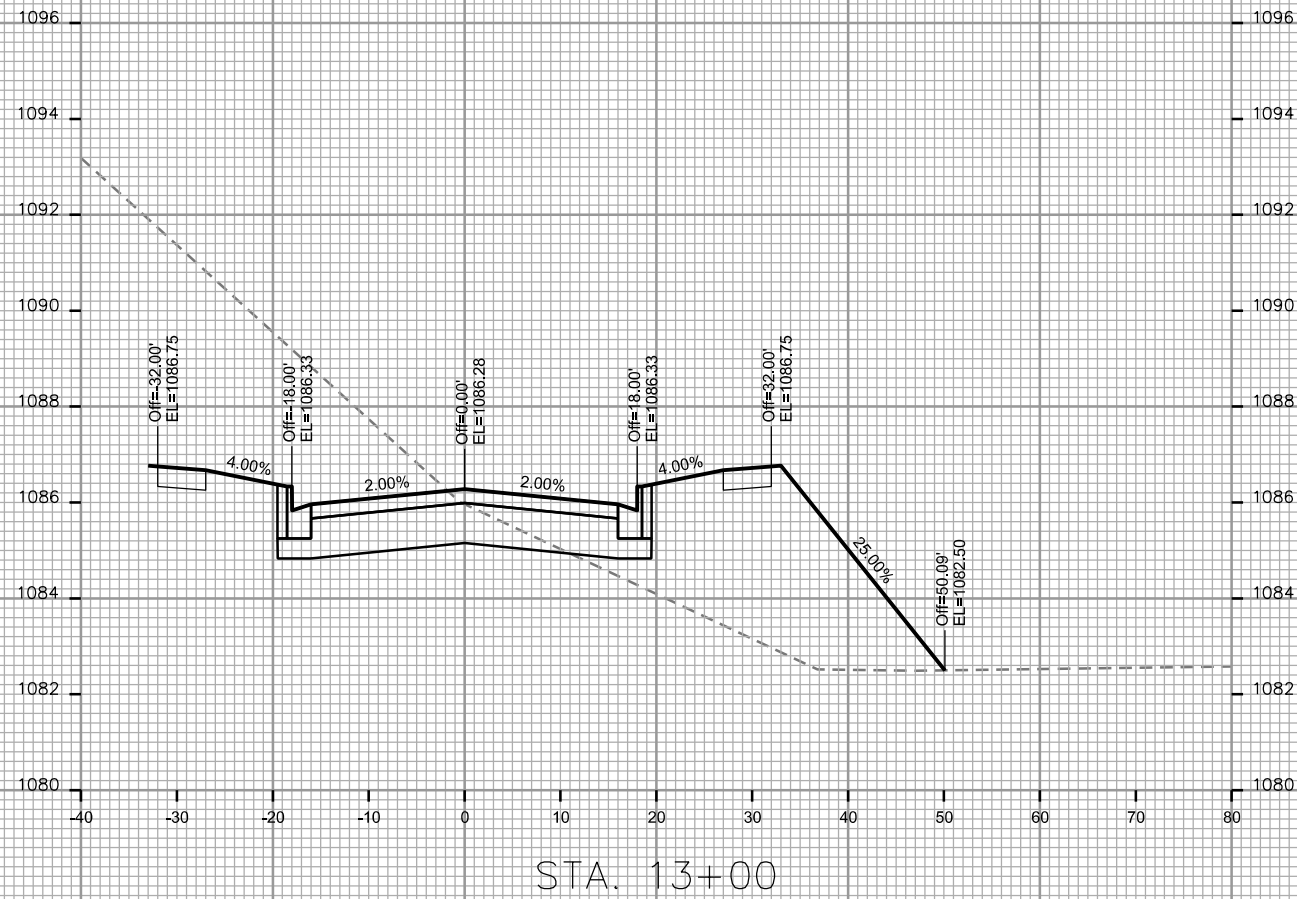
CITY OF MADISON

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CROSS SECTIONS

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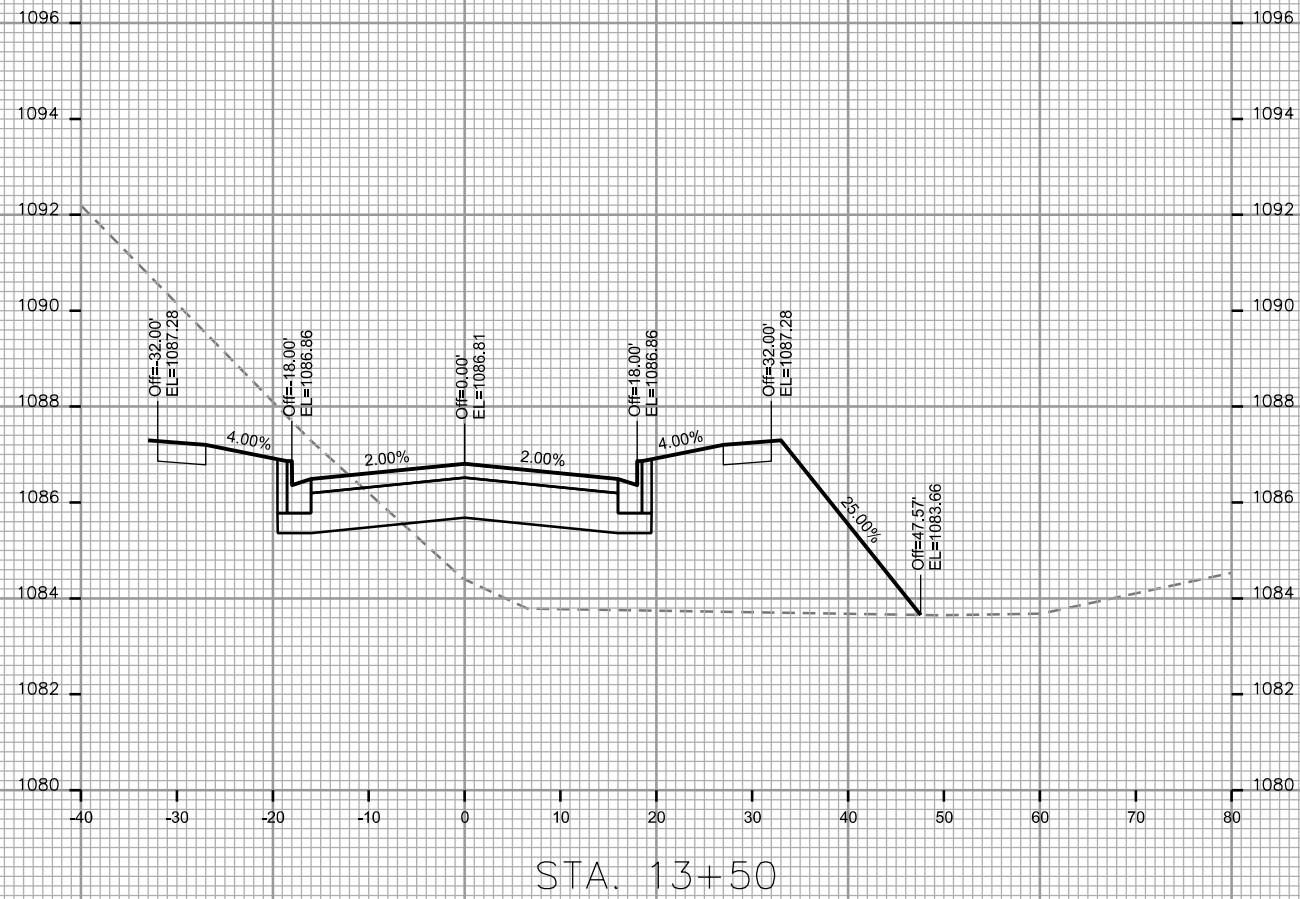
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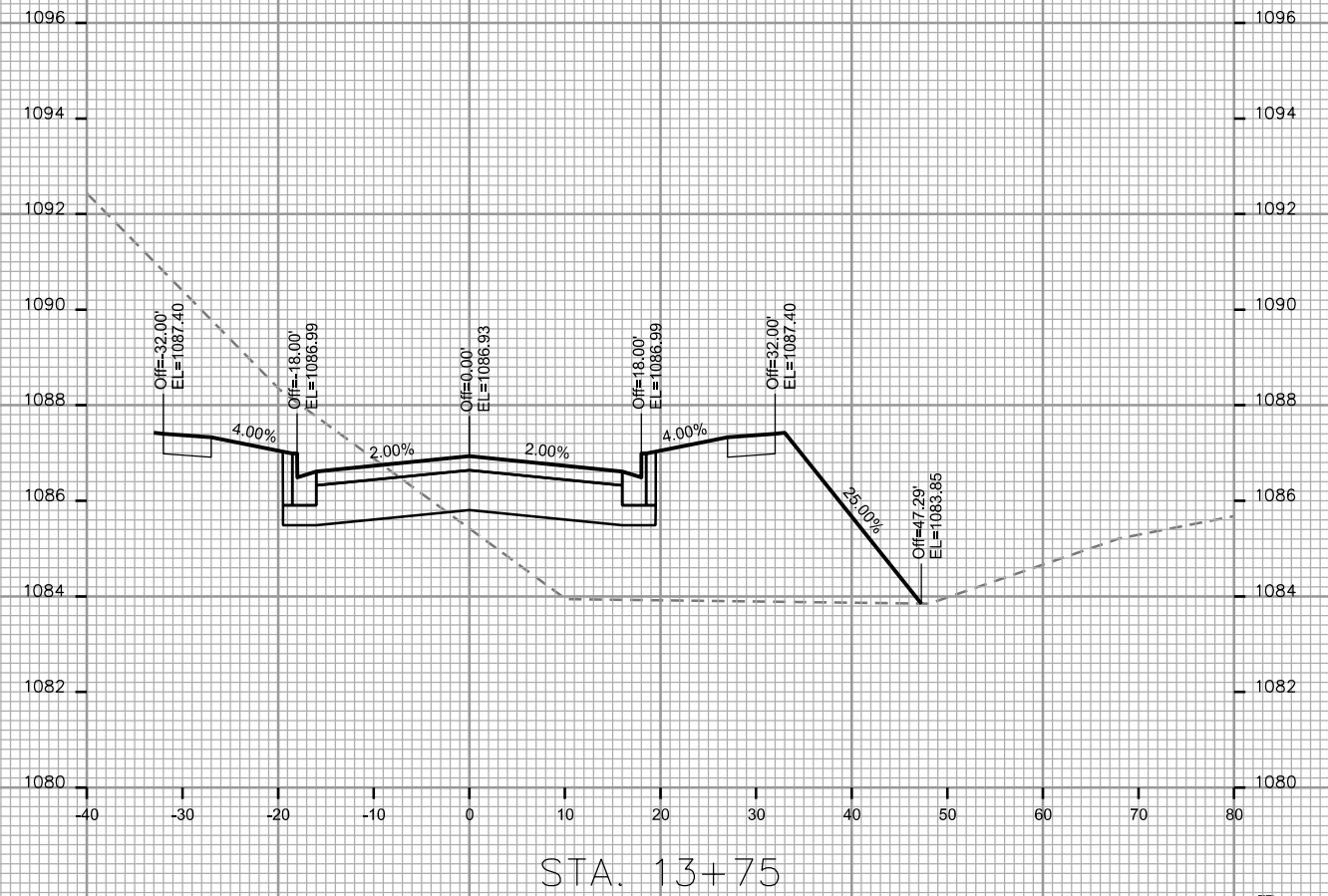
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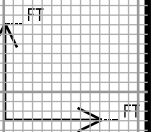
ORIGINATOR: CITY OF MADISON - STREETS DIVISION



STA. 13+50



STA. 13+75



CROSS SECTIONS

GENOMIC DRIVE

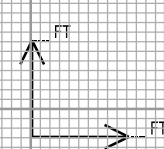
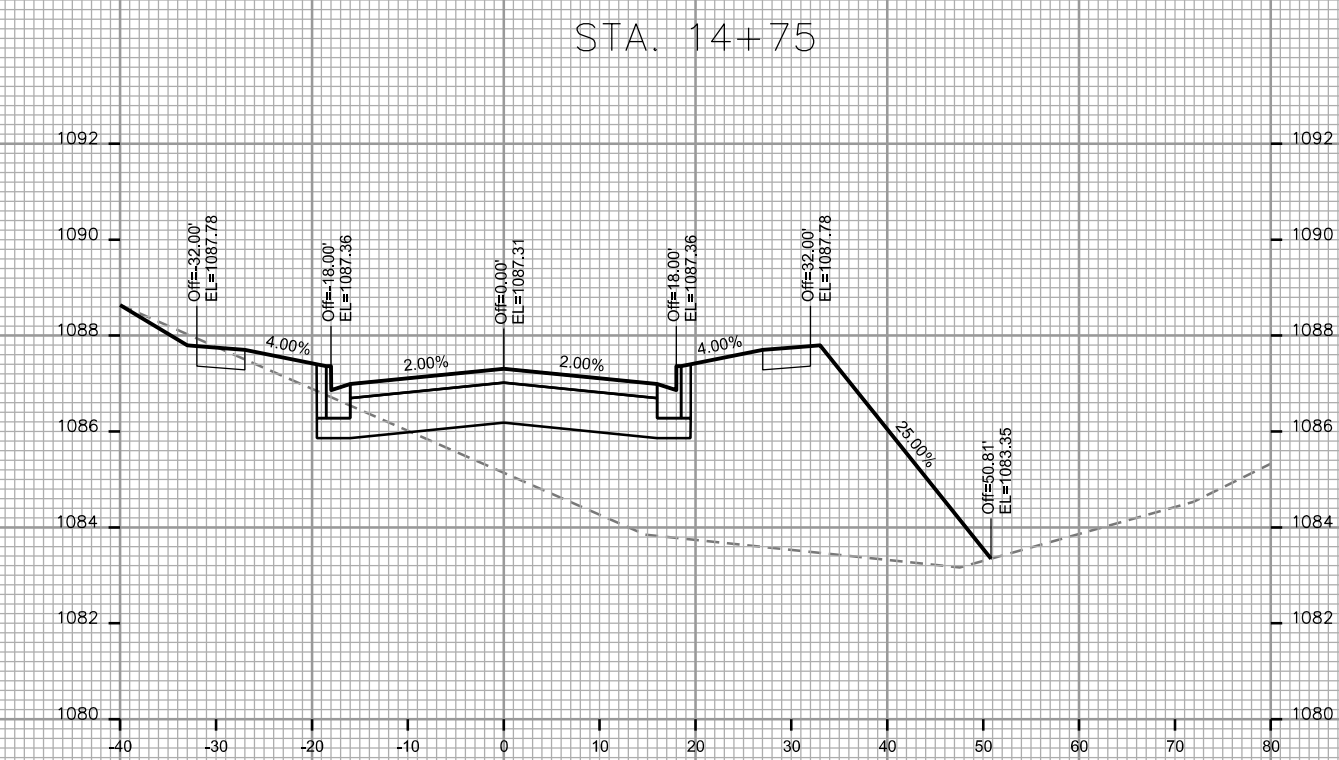
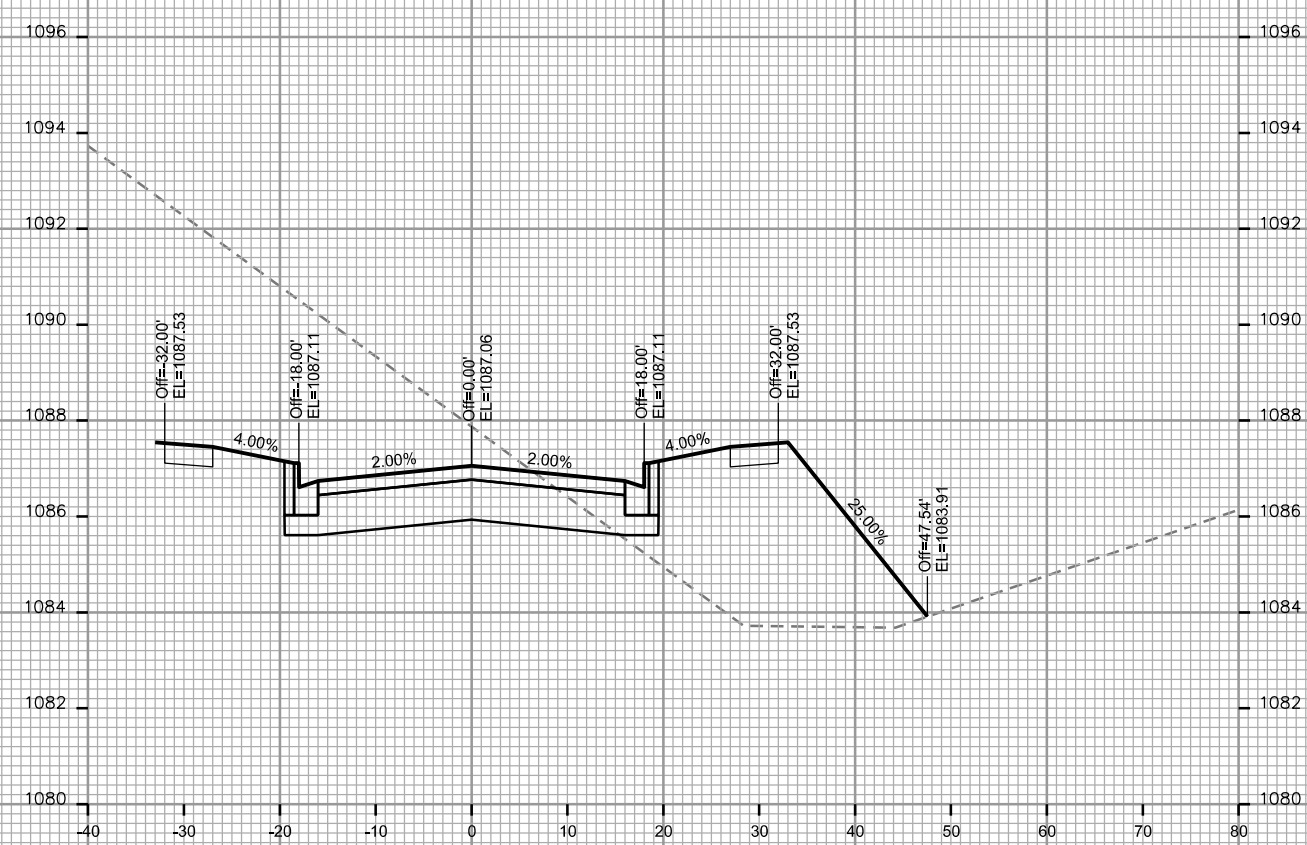
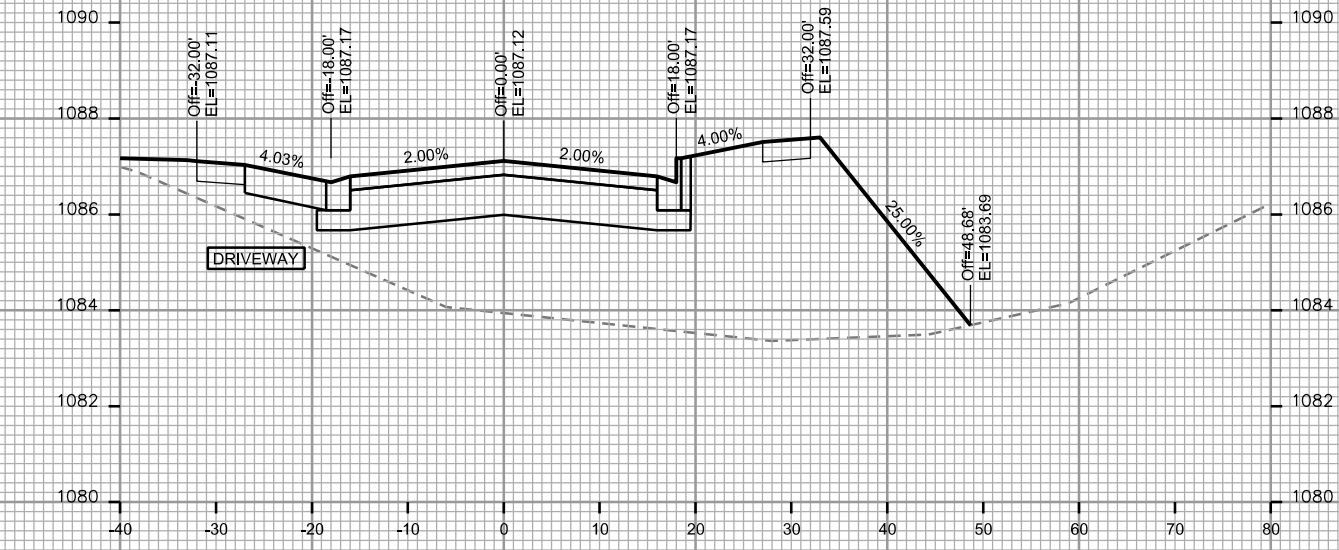
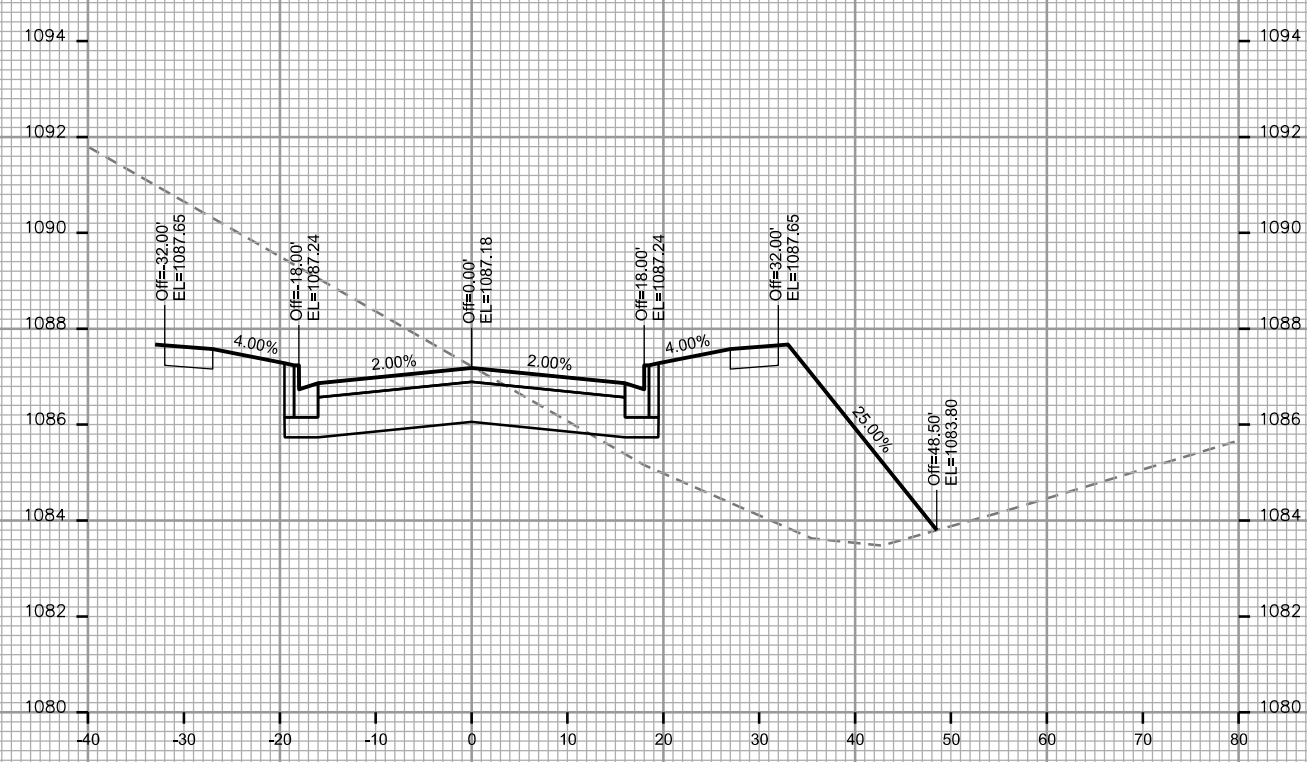
CITY OF MADISON

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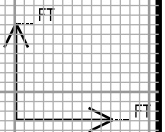
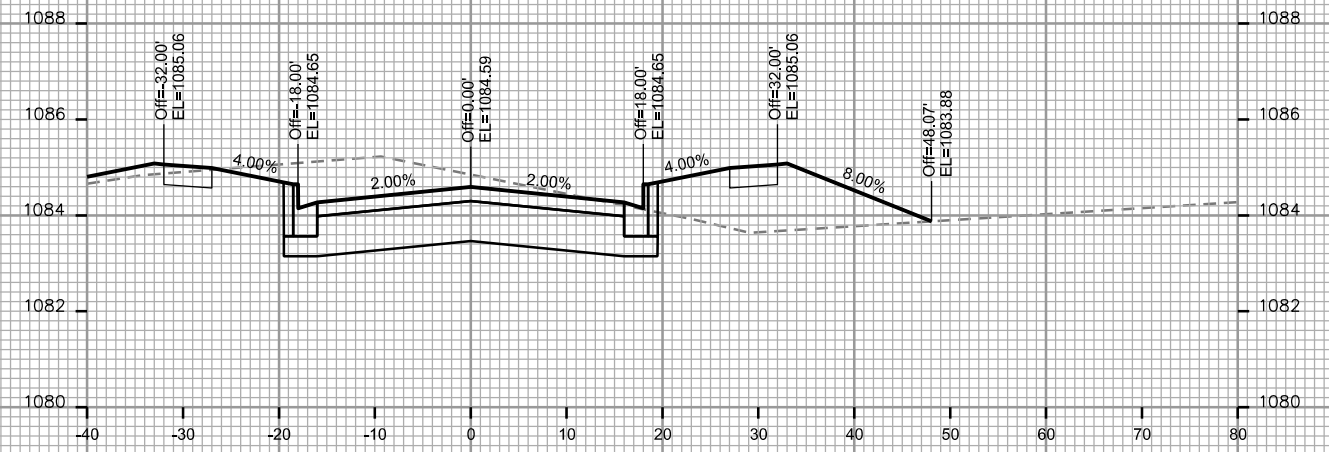
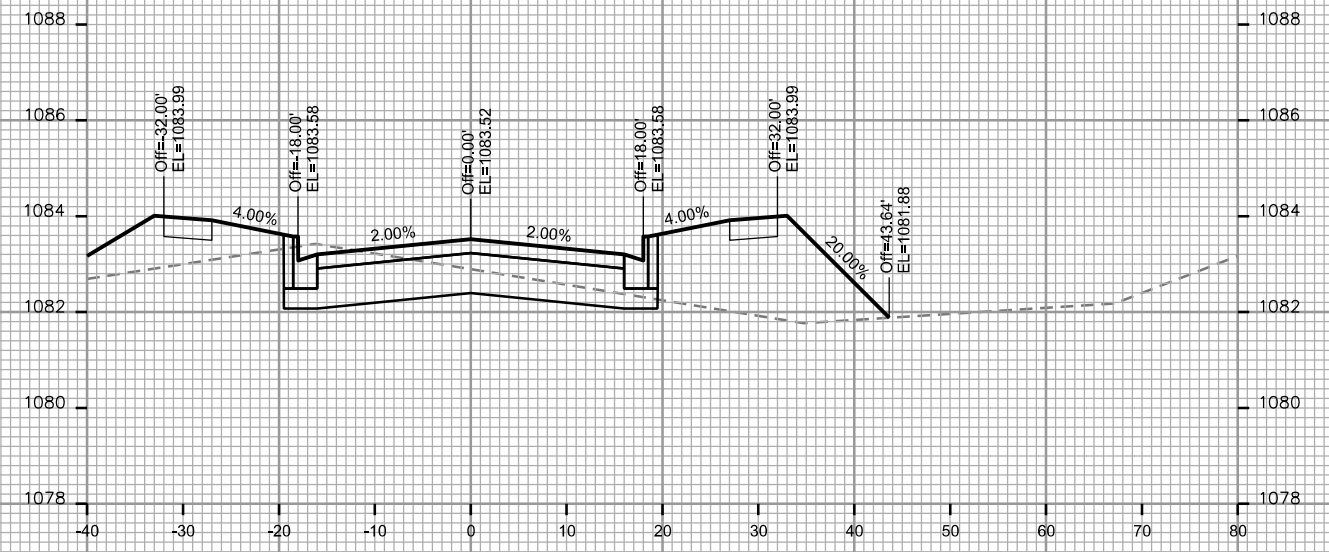
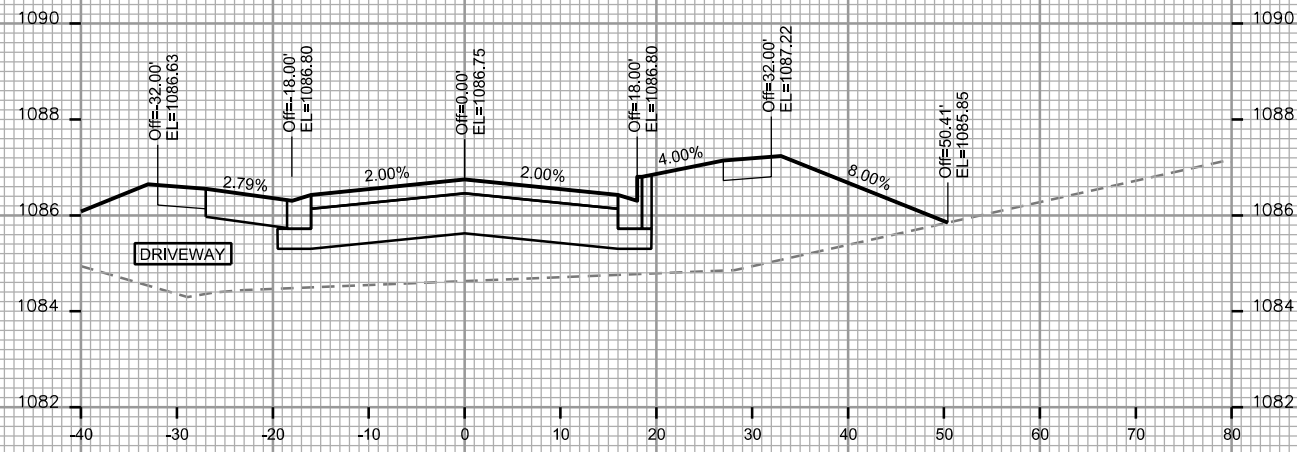
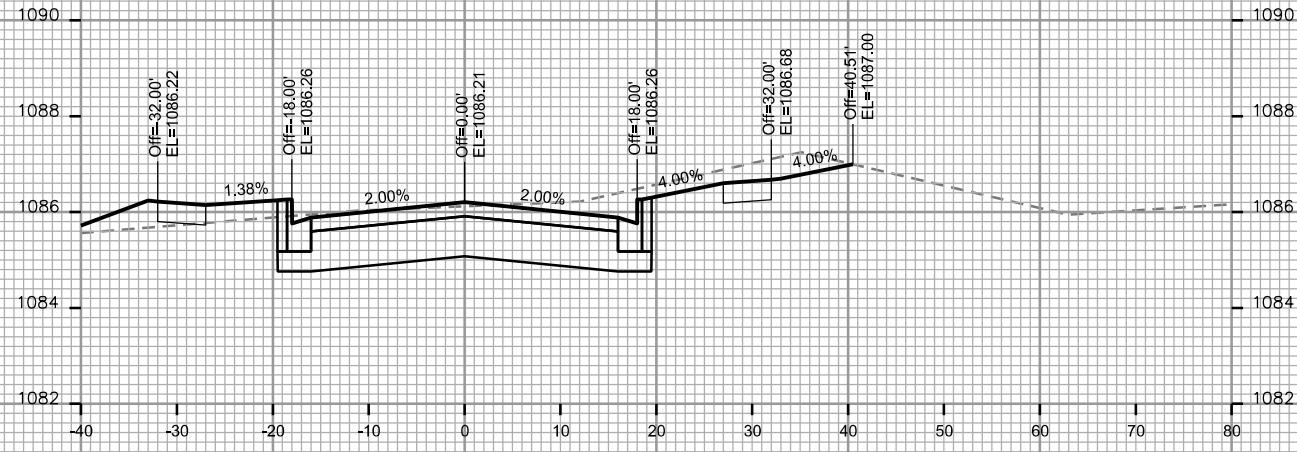
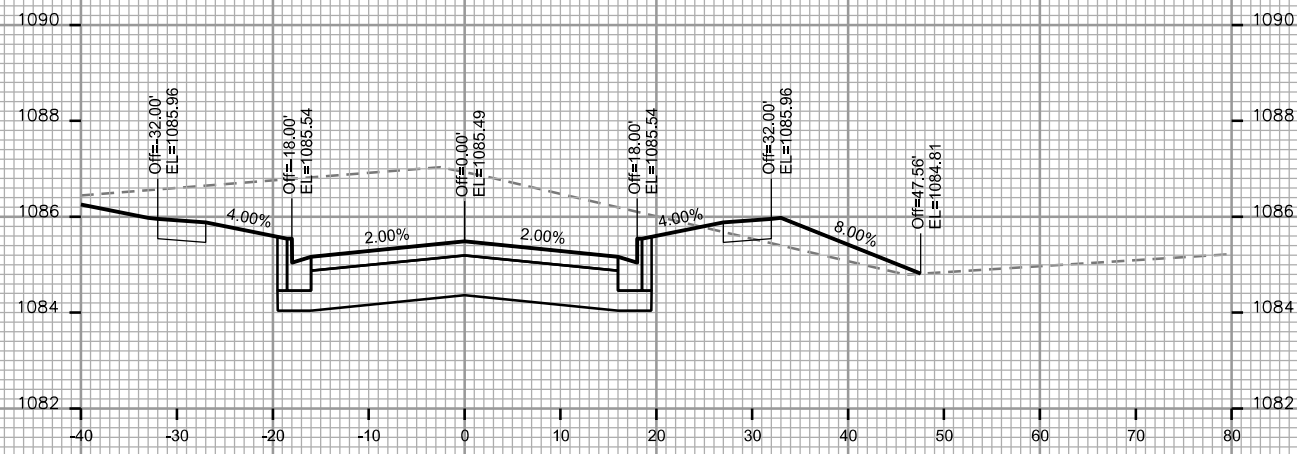
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CROSS SECTIONS

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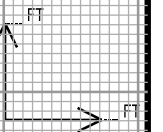
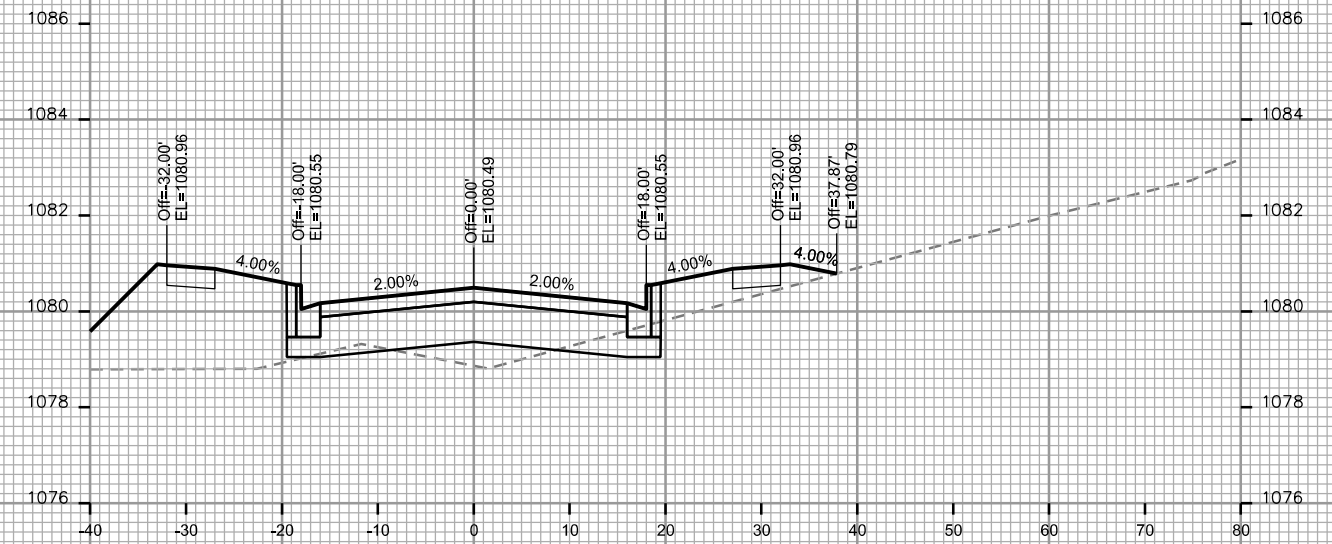
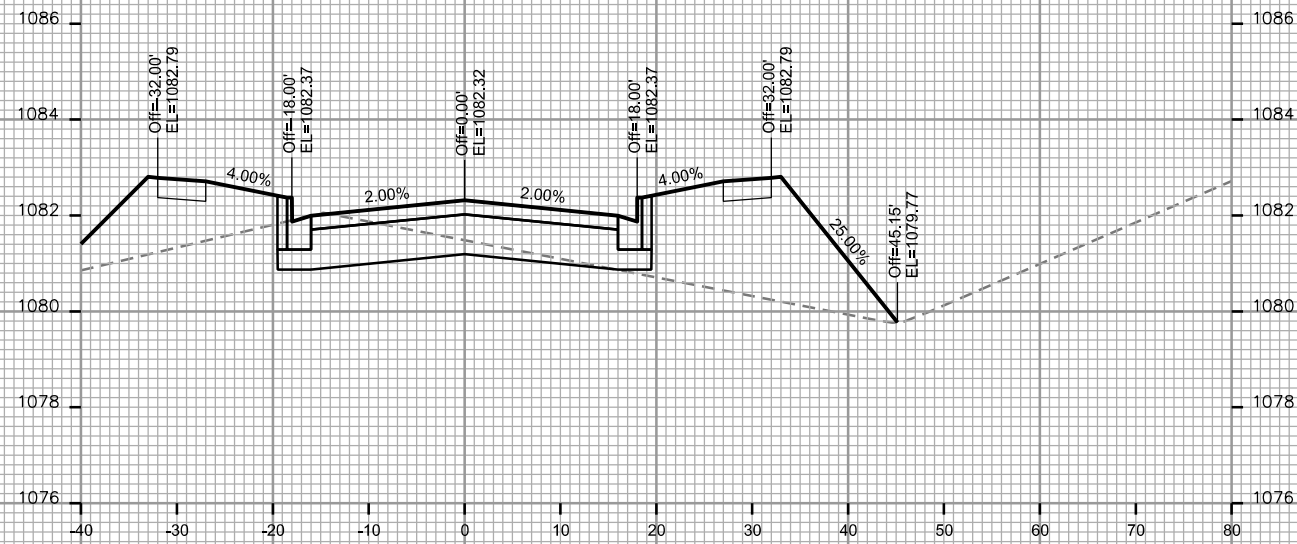
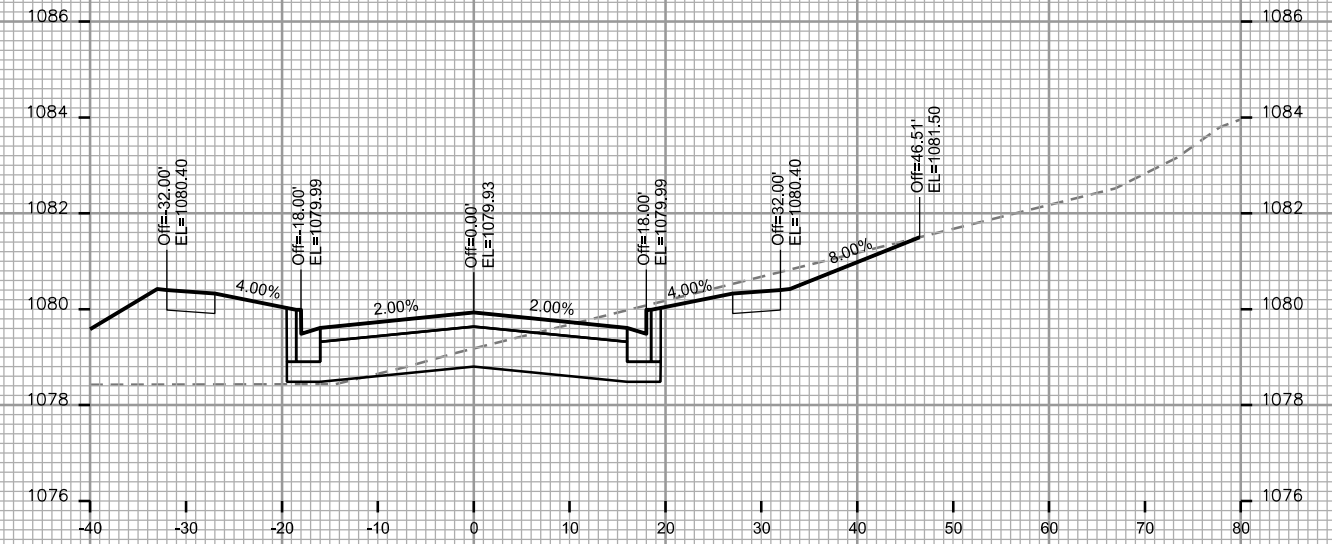
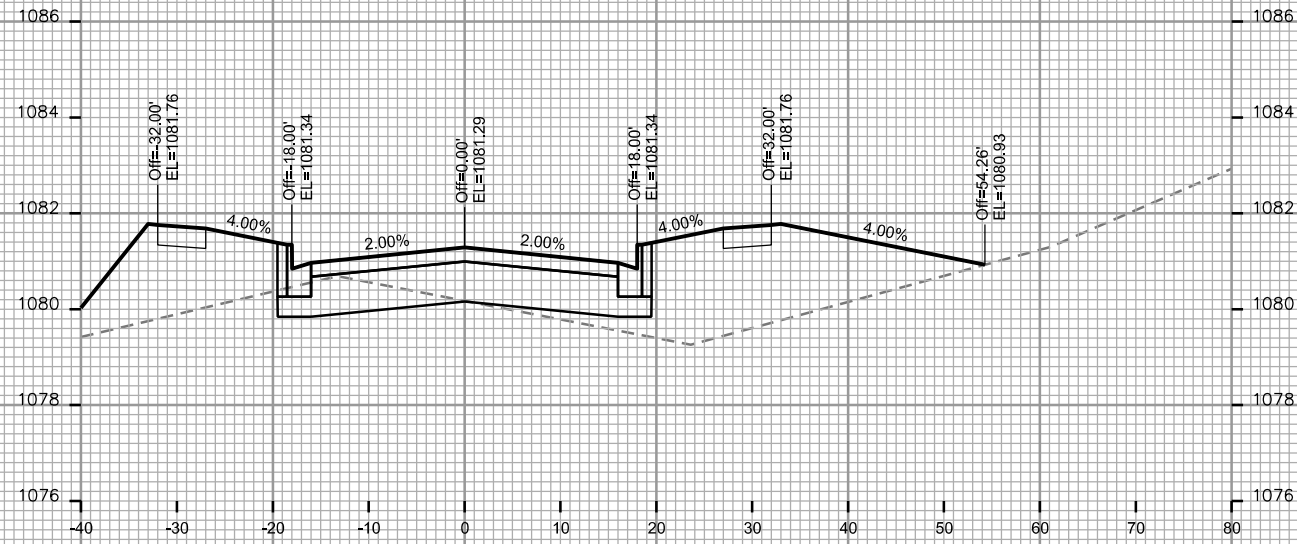
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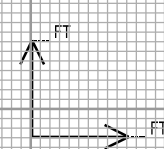
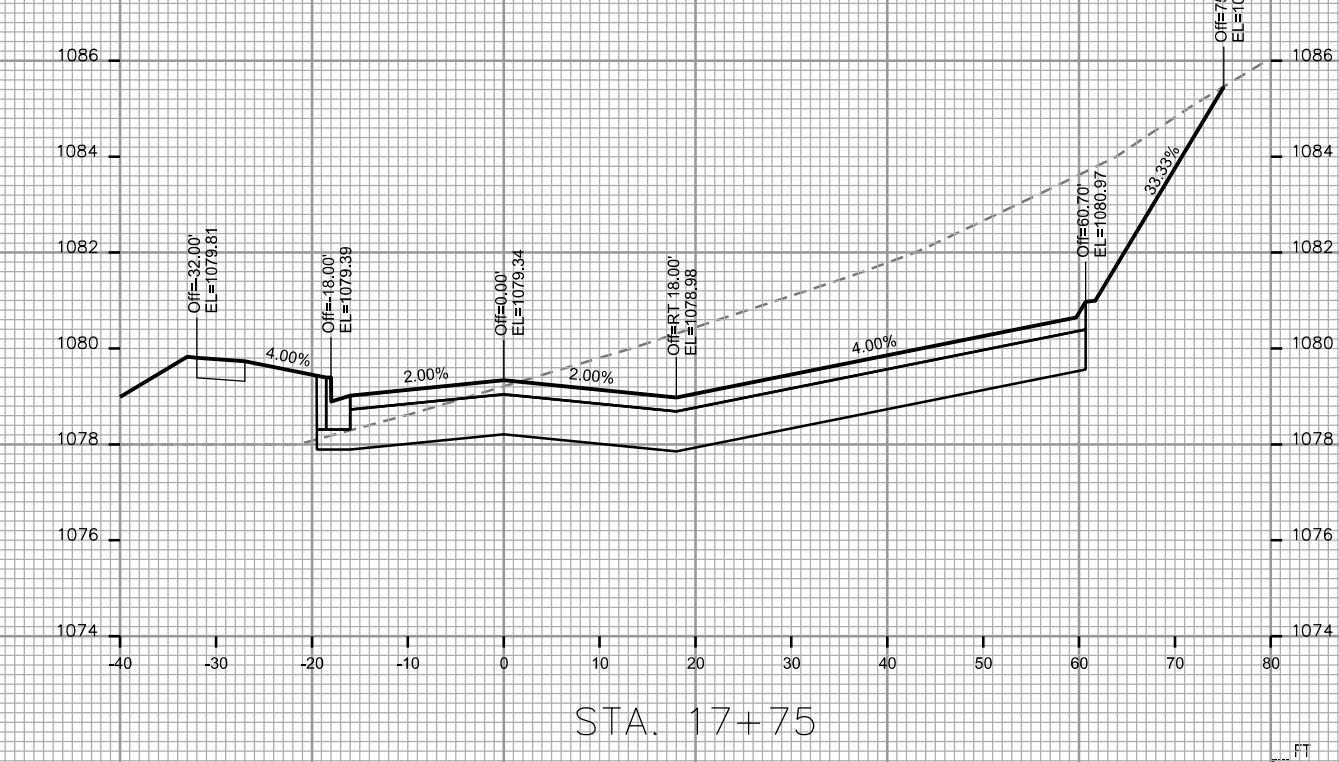
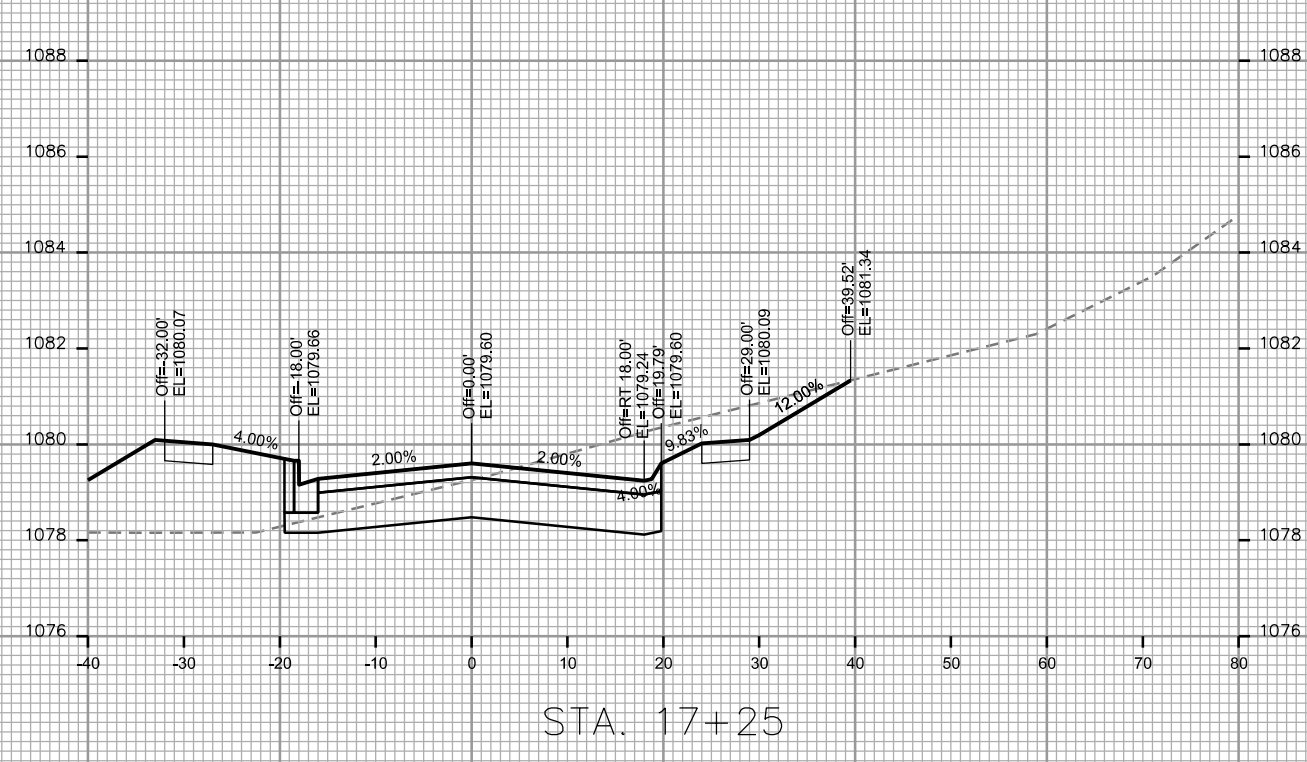
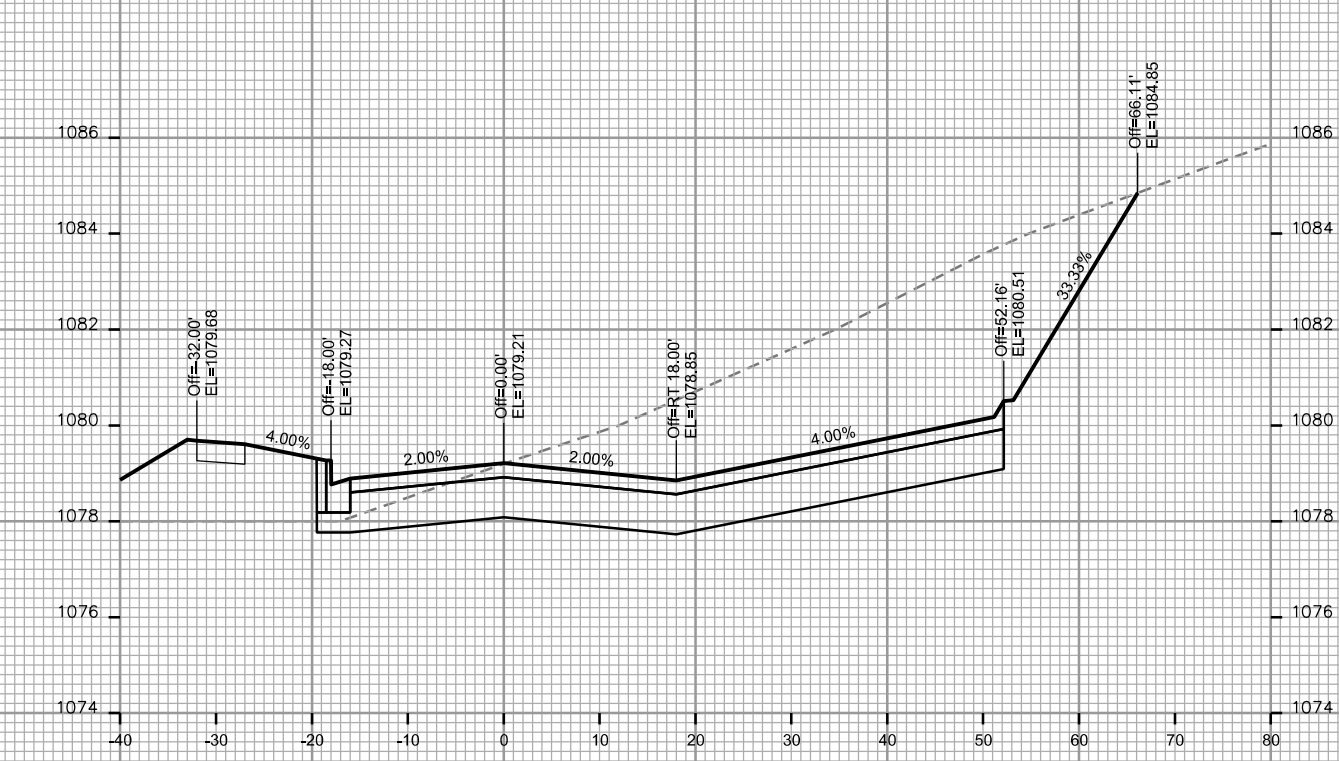
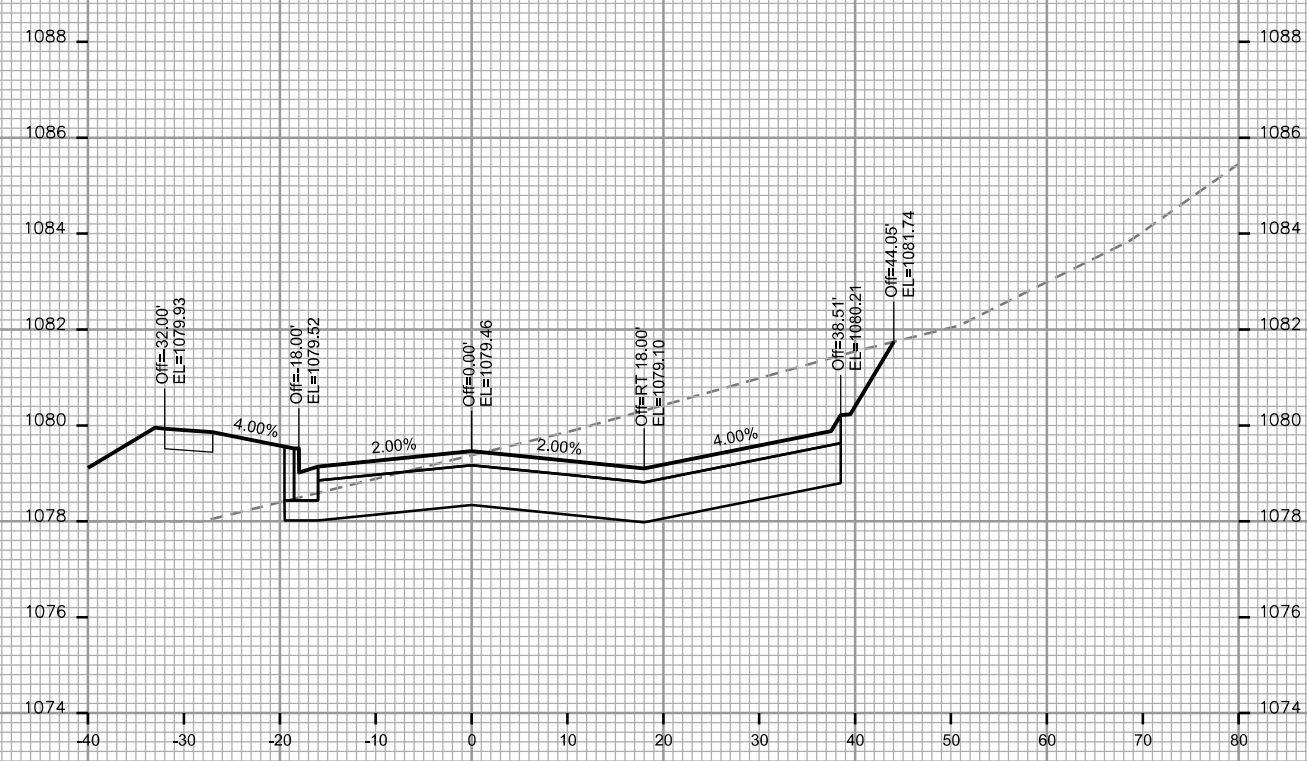
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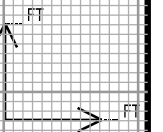
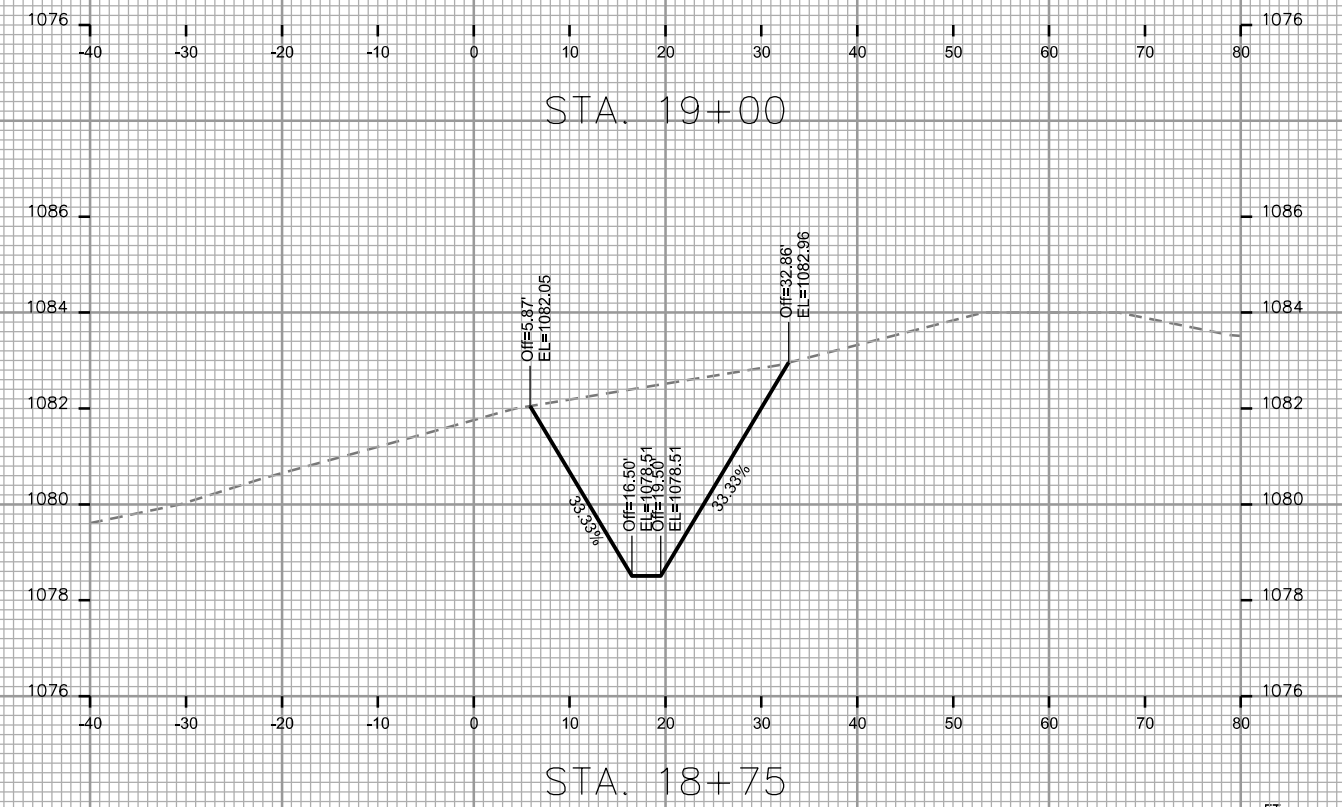
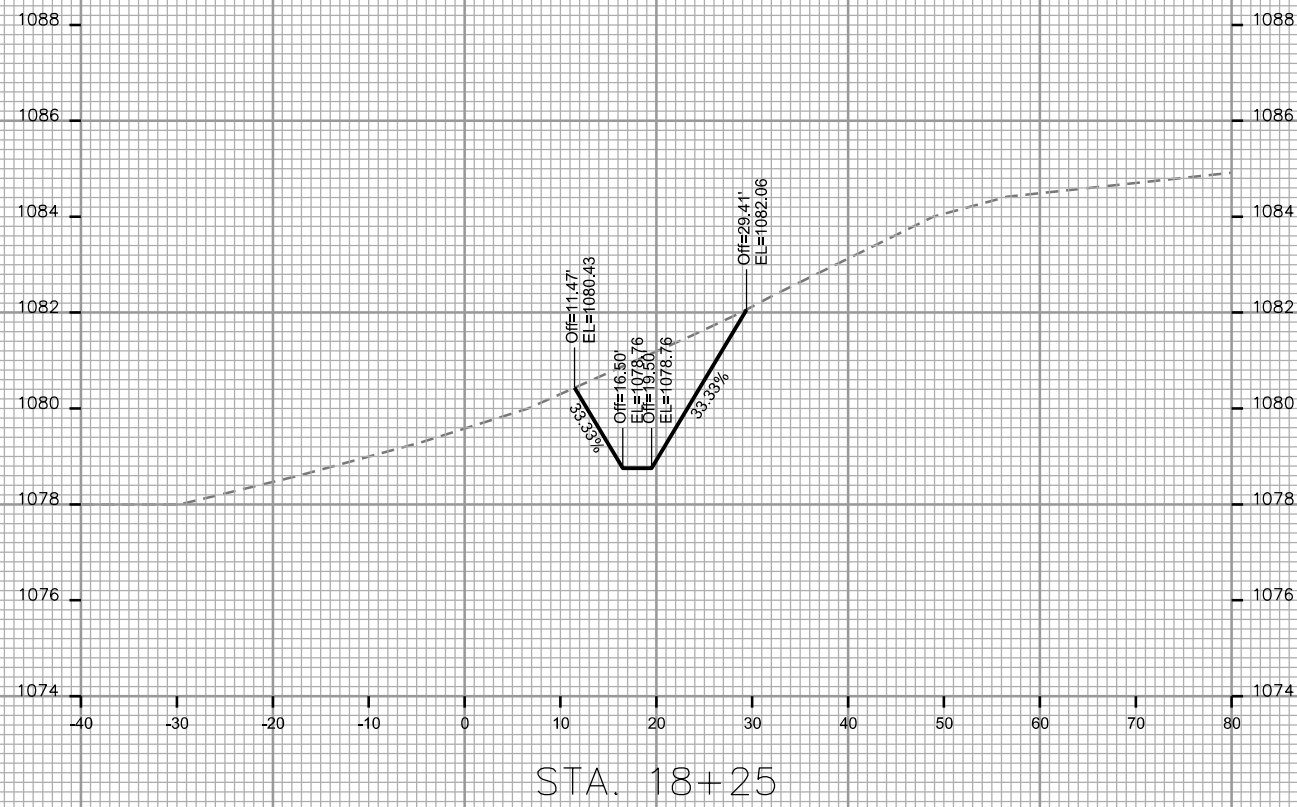
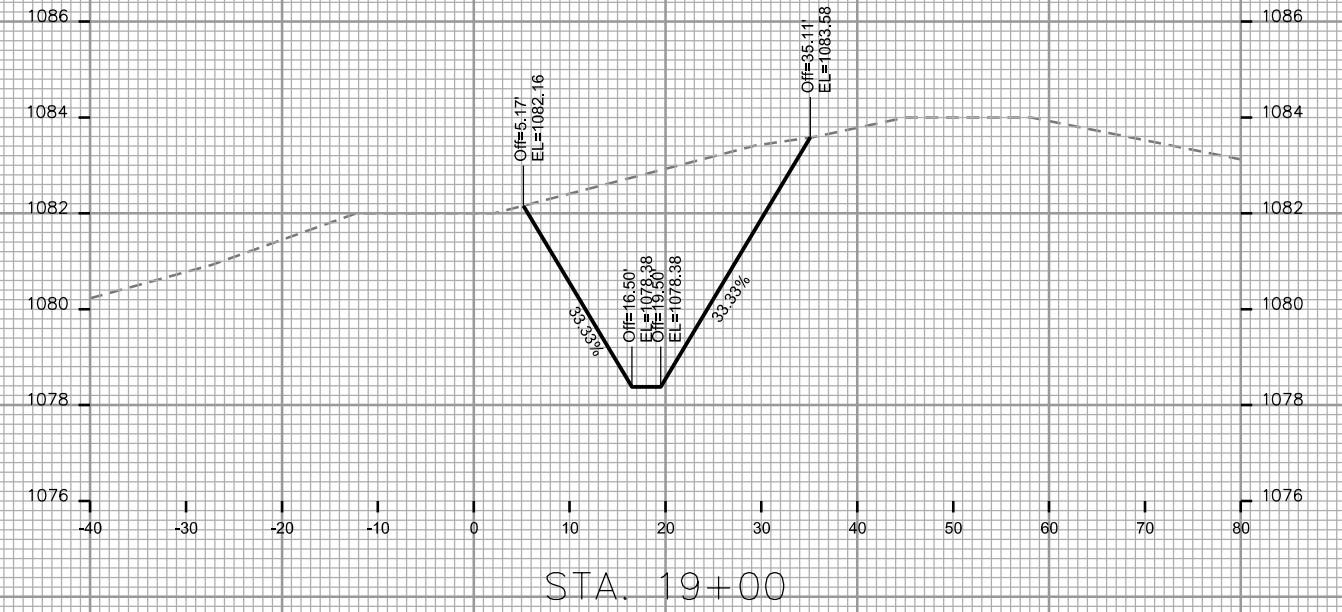
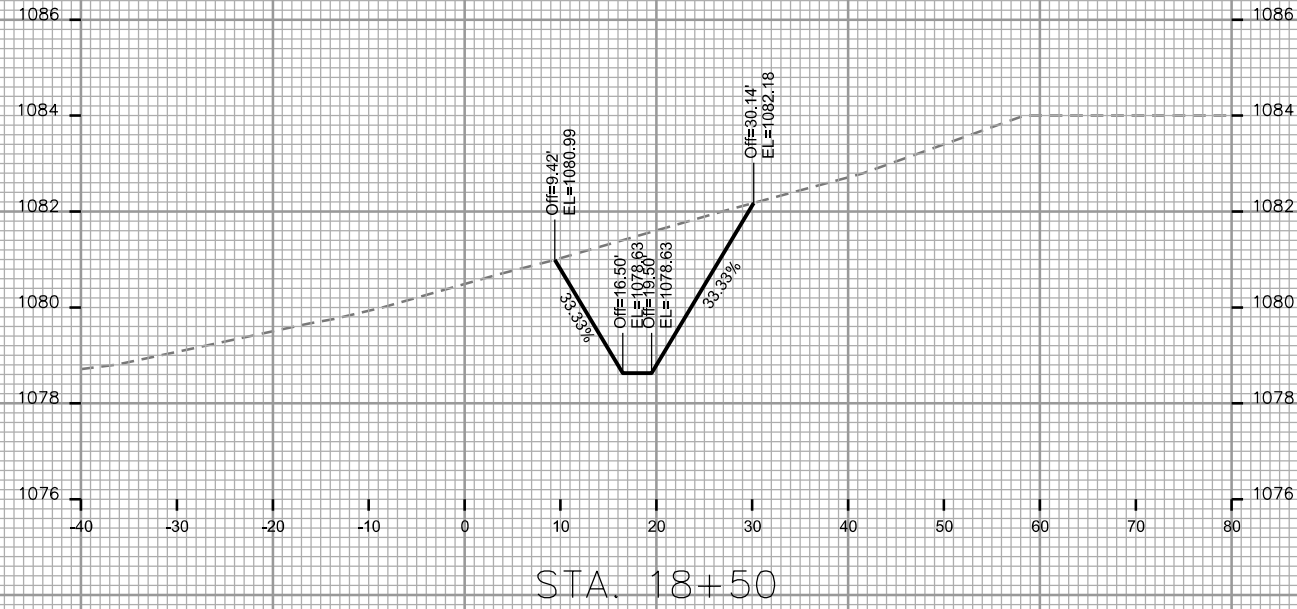
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