

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

501 CHARMANY DRIVE (ENDEAVOR LANE)

CITY PROJECT NO. 11847
CONTRACT NO. 8166

REVISION 4/5/19 AJJ
- Add Sanitary Sewer Exhibits

PUBLIC IMPROVEMENT PROJECT APPROVED

May 15, 2018

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

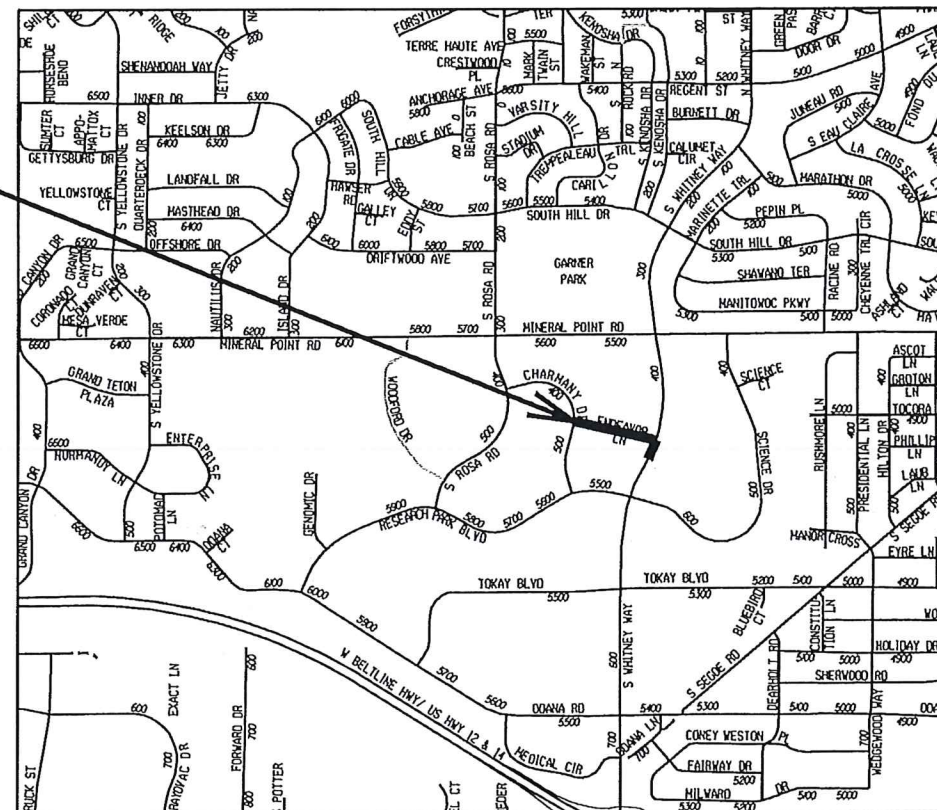
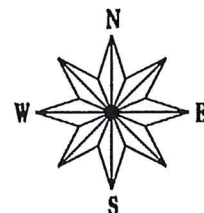
PUBLIC IMPROVEMENT DESIGN
APPROVED BY:


City Engineer Date 2/28/19

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PROJECT LOCATION



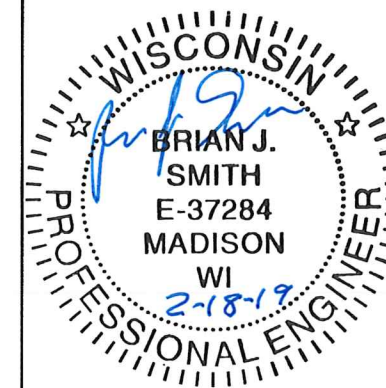
PAVEMENT MARKING
DESIGNED BY:



STREET
DESIGNED BY:



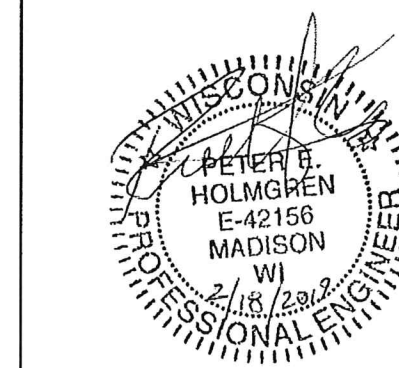
LIGHTING
DESIGNED BY:



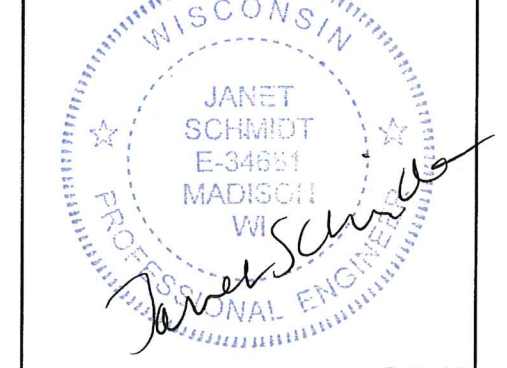
SANITARY SEWER
DESIGNED BY:

ADJUST STRUCTURE ONLY
2/18/19 Mark Kell

WATER MAIN
DESIGNED BY:



STORM SEWER
DESIGNED BY:



CONVENTIONAL SIGNS	
FIELD VERIFY ALL UTILITY LOCATIONS	
GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
OVERHEAD ELECTRIC	— OH —
POWER POLE	□

NOTES:

ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADE OF 0.50% TOWARD STORM SEWER INLETS.

SIDEWALK RAMPS AND CURB THRU SIDEWALK RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1" PER 12". SIDEWALK AND CURB RAMPS SHALL BE CONSTRUCTED WITH A SIDE SLOPE OF 2.00%. SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.50% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00%

EXISTING STREET TREES SHALL BE PROTECTED. CONTRACTOR SHALL INSTALL TREE PROTECTION FENCING IN THE AREA BETWEEN THE CURB AND SIDEWALK AND EXTEND IT AT LEAST 5 FEET FROM BOTH SIDES OF THE TREE ALONG THE LENGTH OF THE TERRACE. NO EXCAVATION IS PERMITTED WITHIN 5 FEET OF THE OUTSIDE EDGE OF A TREE TRUNK. IF EXCAVATION WITHIN 5 FEET OF ANY TREE IS NECESSARY, CONTRACTOR SHALL CONTACT CITY FORESTRY (266-4816) 48 HOURS PRIOR TO EXCAVATION TO ASSESS THE IMPACT TO THE TREE AND ROOT SYSTEM. TREE PRUNING SHALL BE COORDINATED WITH CITY FORESTRY PRIOR TO THE START OF CONSTRUCTION. TREE PROTECTION SPECIFICATIONS CAN BE FOUND IN SECTION 107.13 OF CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
-[HTTP://WWW.CITYOFMADISON.COM/BUSINESSPW/DOCUMENTS/STDSPESCS2013/PART1.PDF](http://www.cityofmadison.com/business/pwd/documents/stdspecs2013/part1.pdf)

CONTRACTOR SHALL CONTACT CITY FORESTRY BRAD HOFMANN BHOFMANN@CITYOFMADISON.COM OR 266-4816 AT LEAST ONE WEEK PRIOR TO PLANTING TO SCHEDULE INSPECTING THE NURSERY STOCK AND REVIEW PLANTING SPECIFICATIONS WITH THE LANDSCAPER.

ANY TREE REMOVALS THAT ARE REQUIRED FOR CONSTRUCTION WILL REQUIRE AT LEAST A 72 HOUR WAIT PERIOD BEFORE A TREE REMOVAL PERMIT CAN BE ISSUED BY FORESTRY, TO NOTIFY THE ALDER OF THE CHANGE IN THE TREE PLAN.

CONTRACTOR/DEVELOPER SHALL SUBMIT A TRAFFIC CONTROL PLAN TO CITY TRAFFIC ENGINEERING AT LEAST 10 WORKING DAYS PRIOR TO THE START OF WORK. WORK WITHIN THE RIGHT-OF-WAY SHALL NOT BEGIN UNTIL THE TRAFFIC CONTROL PLAN IS APPROVED.

ANY PAVEMENT MARKINGS THAT ARE REMOVED OR DAMAGED SHALL BE REPLACED BY THE DEVELOPER/CONTRACTOR AS DIRECTED BY CITY TRAFFIC ENGINEERING.

ALL PAVEMENT WITHIN THE ENDEAVOR LANE RIGHT-OF-WAY SHALL CONSIST OF:
1 3/4" BITUMINOUS UPPER LAYER, 4 LT 58-28 S
1 3/4" BITUMINOUS LOWER LAYER, 4 LT 58-28 S

ALL EXISTING PAVEMENT (TRAVEL LANES) DISTURBED WITHIN THE WHITNEY WAY RIGHT-OF-WAY SHALL CONSIST OF:
2" BITUMINOUS UPPER LAYER, 4 MT 58-28 S
3 1/2" BITUMINOUS LOWER LAYER, 3 MT 58-28 S

THE PROPOSED LEFT TURN LANE ALONG THE WHITNEY WAY RIGHT-OF-WAY SHALL CONSIST OF:
2" BITUMINOUS UPPER LAYER, 4 MT 58-28 S
3 1/2" BITUMINOUS LOWER LAYER, 3 MT 58-28 S

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

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 0.4% 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.

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.

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.

DAMAGE TO ANY EXISTING CURB, PAVEMENT, SIDEWALK, ETC. THAT IS TO REMAIN SHALL BE REPAIRED BY THE DEVELOPER/CONTRACTOR AS DIRECTED BY THE ENGINEER.

DEVELOPER/CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO ADJUST STRUCTURES, MANHOLES, HANDHOLES, ETC. AS NEEDED TO MATCH THE GRADE OF THE NEW PAVEMENT.

ANY WORK SHOWN ON THIS PLAN THAT IS OUTSIDE OF THE RIGHT-OF-WAY OR BEYOND THE LIMITS OF THIS PROJECT SHALL BE CONSIDERED APPROXIMATE AND NOT FOR CONSTRUCTION.

7" STAMPED & COLORED CONCRETE SPECIAL PROVISION

DESCRIPTION

THIS WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF PART 3 OF THE STANDARD SPECIFICATIONS, EXCEPT AS HEREIN AFTER AMENDED.

A SEPARATE DESIGN MIX SHALL BE PROVIDED FOR ALL AREAS TO RECEIVE INTEGRALLY COLORED CONCRETE. INTEGRALLY COLORED CONCRETE MIX(ES) SHALL NOT CONTAIN FLY ASH. CONSIDER ADMIXTURE RECOMMENDATIONS FOR CONCRETE MIX DESIGN, HOWEVER, MIX DESIGN MUST ALSO CONFORM TO THE STANDARD SPECIFICATIONS. SUBMIT THE CONCRETE MIX DESIGN TO THE CITY OF MADISON FOR REVIEW.

CONTRACTOR SHALL PROVIDE A 12*XI2*SAMPLE OF THE COLORED CONCRETE, WHICH WILL BE REVIEWED AND APPROVED BY THE CITY PRIOR TO FINAL INSTALLATION. PROVIDE A MINIMUM OF 3 DAYS NOTICE TO THE ENGINEER IN ORDER TO SCHEDULE REVIEW OF THE SAMPLE.

EXCESS CONCRETE MATERIAL FROM MOCKUPS CAN BE USED ELSEWHERE PER THE ENGINEERS APPROVAL IF THE MIX DESIGN MEETS THE STANDARD REQUIREMENTS OF THE SECONDARY USE.

MATERIALS

INTEGRAL-MIX COLORED ADMIXTURE SHALL CONFORM TO THE REQUIREMENTS OF ACI 303.1, ASTM C979, ASTM C494 AND ASSHTO M194. ADMIXTURE SHALL BE A SINGLE-COMPONENT, COLORED, WATER-REDUCING, SET-CONTROLLING ADMIXTURE CONTAINING NO CALCIUM CHLORIDE WITH COLORING AGENTS THAT ARE LIME-PROOF AND ULTRA-VIOLET RESISTANT. THE ADMIXTURE SHALL BE FACTORY FORMULATED AND PACKAGED IN CUBIC YARD DOSAGE INCREMENTS, NOT MULTIPLE ADDITIVES AND PIGMENTS ADDED SEPARATELY INTO THE MIX.

THE COLOR SHALL EITHER BE BASF NATURAL BARK (MC5002) OR AN APPROVED EQUAL.

ALL SURFACES SHALL BE CURED UNIFORMLY. THE CONCRETE SHALL NEVER BE COVERED WITH PLASTIC SHEETING.

CURING COMPOUND SHALL COMPLY WITH ASTM C309 AND BE OF SAME MANUFACTURER AS COLORED ADMIXTURE, FOR USE WITH INTEGRALLY COLORED CONCRETE. ALL PLACING, FINISHING, CURING, JOINT SEALING, AND PATCHING SHALL BE IN ACCORDANCE WITH THE ADMIXTURE MANUFACTURER'S RECOMMENDATIONS.

IMPRINTING PATTERN: USE A 6*X 6*COBBLESTONE PATTERN.

CONSTRUCTION

ADD COLOR PIGMENT TO CONCRETE MIXTURE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS AND TO RESULT IN HARDENED CONCRETE COLOR CONSISTENT WITH APPROVED SAMPLES.

PROTECT ALL ADJOINING AREAS OF CONCRETE PRIOR TO POURING COLORED CONCRETE. PERFORM ANY FINISHING WORK AS NECESSARY TO PREPARE THE COLORED CONCRETE FOR STAMPING AS RECOMMENDED BY THE PATTERN MANUFACTURER.

SET STAMP PATTERN IN ACCORDANCE TO THE MANUFACTURER'S SPECIFIED METHODS. CHECK ALL DEPTHS OF IMPRINTS BY TOOL-TO-TOOL SURFACE LEVELING. PERFORM TOOLING AND FINISHING AS STAMPING TOOLS ARE REMOVED AFTER IMPRINTING. ELIMINATE ALL SQUEEZE JOINTS BETWEEN STAMPING TOOLS, IF ANY, WITH HAND TOOLS PRIOR TO CONCRETE SETTING.

JOINT THE CONCRETE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AMENDED AS FOLLOWS: SAW JOINTS SUCH THAT THE SAW JOINT FOLLOWS THE CONCRETE RECESS.

APPLY CURING COMPOUND PER MANUFACTURER'S RECOMMENDED COVERAGE RATE AND TO MEET CURING REQUIREMENTS OF THE CITY OF MADISON STANDARD SPECIFICATIONS.

7* STAMPED & COLORED CONCRETE SHALL MATCH THE VISUAL APPEARANCE OF THE APPROVED REFERENCE SAMPLES.

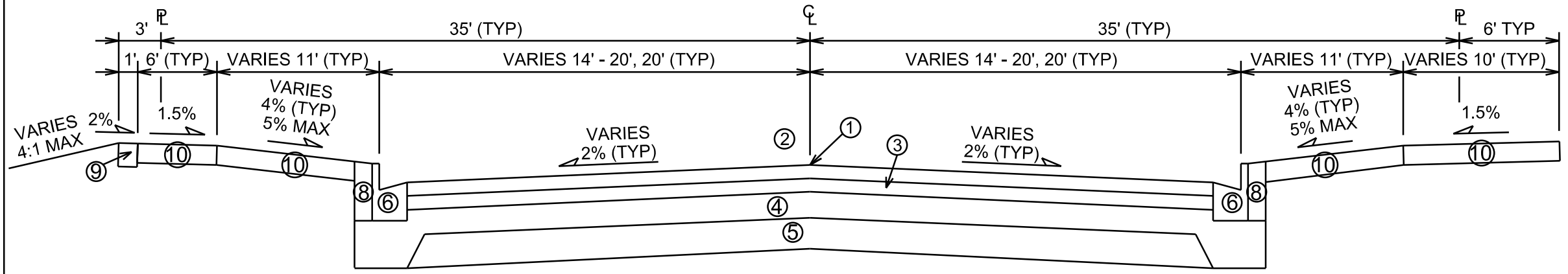
PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

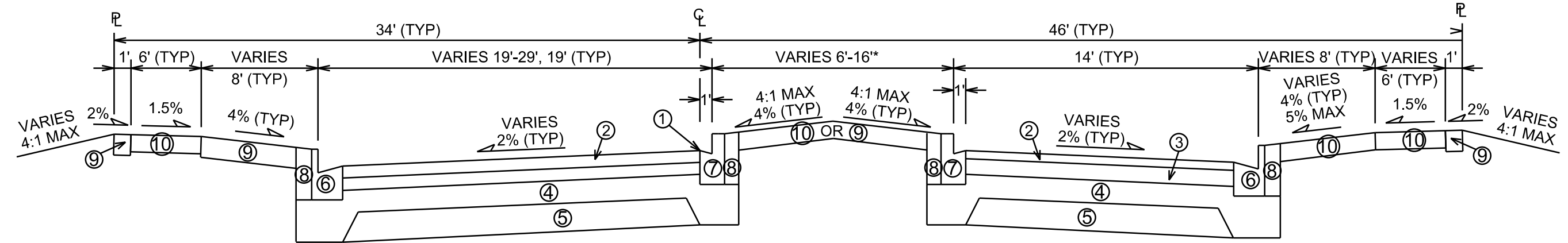
DETAILS
TYPICAL SECTIONS CITY OF MADISON



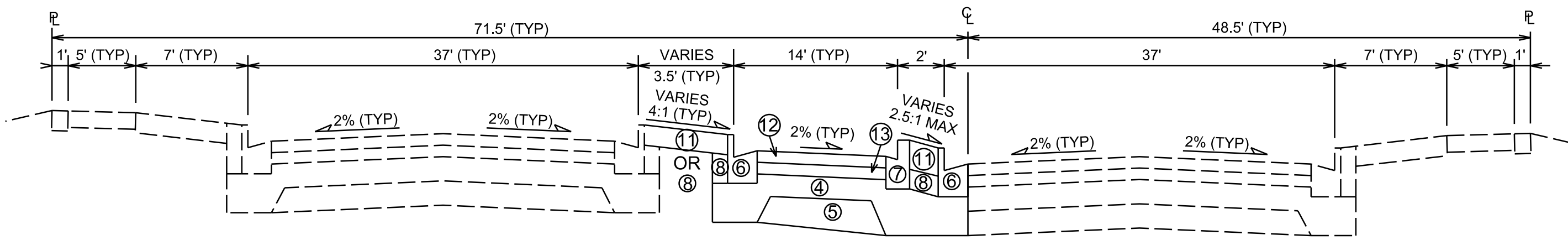
TYPICAL FINISHED SECTION
ENDEAVOR LANE
STA 10+49 TO STA 14+68
STA 15+01 TO STA 15+48

- ① POINT REFERRED TO ON PROFILE
- ② 1 3/4" HMA UPPER LAYER, 4 LT 58-28 S
- ③ 1 3/4" HMA LOWER LAYER, 4 LT 58-28 S
- ④ 6" GRADATION 2 CRUSHED STONE
- ⑤ 6" GRADATION 1 CRUSHED STONE
- ⑥ TYPE 'A' CONCRETE CURB & GUTTER
- ⑦ TYPE 'H' CONCRETE CURB & GUTTER
- ⑧ FILL, INCIDENTAL
- ⑨ 6" TOPSOIL, TERRACE SEED & EROSION MAT
- ⑩ 5" CONCRETE SIDEWALK
- ⑪ 7" CONCRETE SIDEWALK
- ⑫ 2" HMA UPPER LAYER, 4 MT 58-28 S
- ⑬ 3 1/2" HMA LOWER LAYER, 3 MT 58-28 S

GENERAL NOTES:
1. SEE PLAN & PROFILES FOR TOP OF CURB ELEVATIONS.
2. TYPICAL SECTIONS NOT TO SCALE.
*5" CONCRETE SIDEWALK STA 14+68 TO STA 15+01 RT & STA 15+48 TO STA 16+02. 6" TOPSOIL, SEED & EMAT STA 16+02 TO STA 18+80



TYPICAL FINISHED SECTION
ENDEAVOR LANE
STA 14+68 TO STA 15+01
STA 15+48 TO STA 18+80



TYPICAL FINISHED SECTION
WHITNEY WAY LEFT TURN LANE
STA 2+81 TO STA 6+50

PLOT SCALE: _____

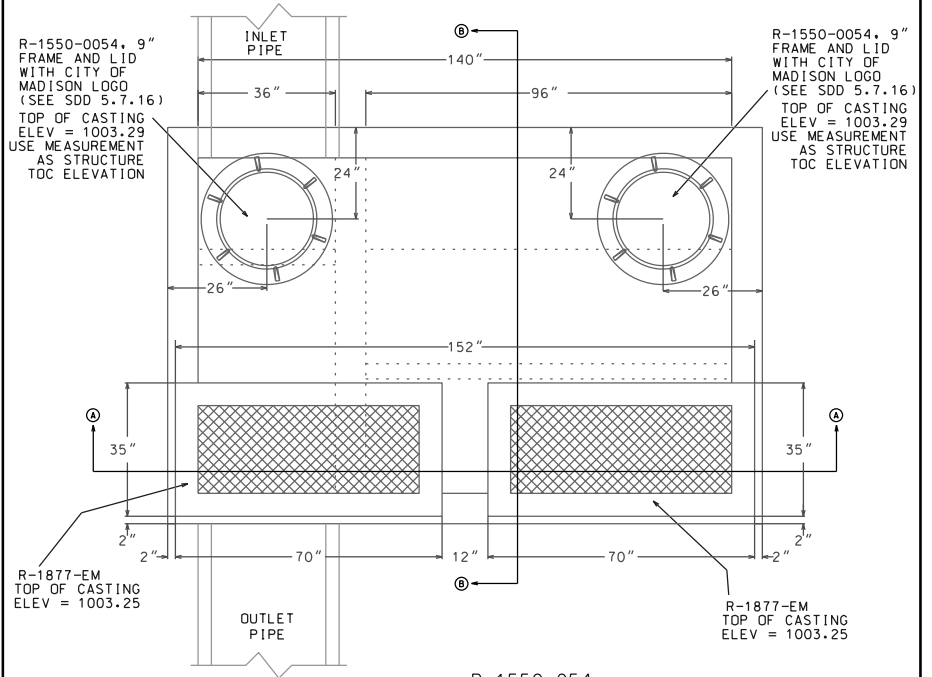
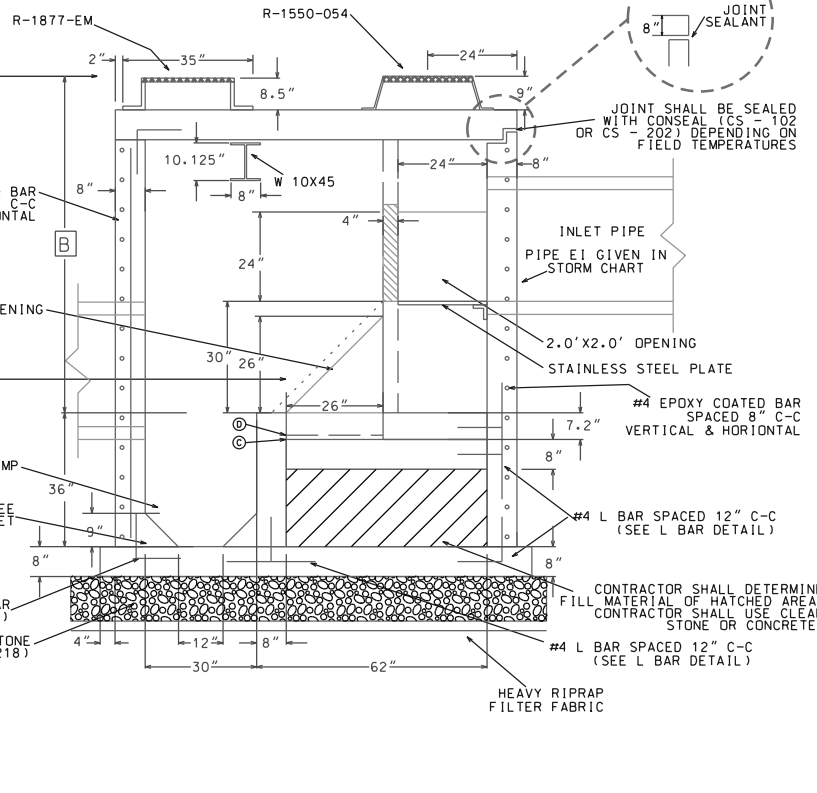
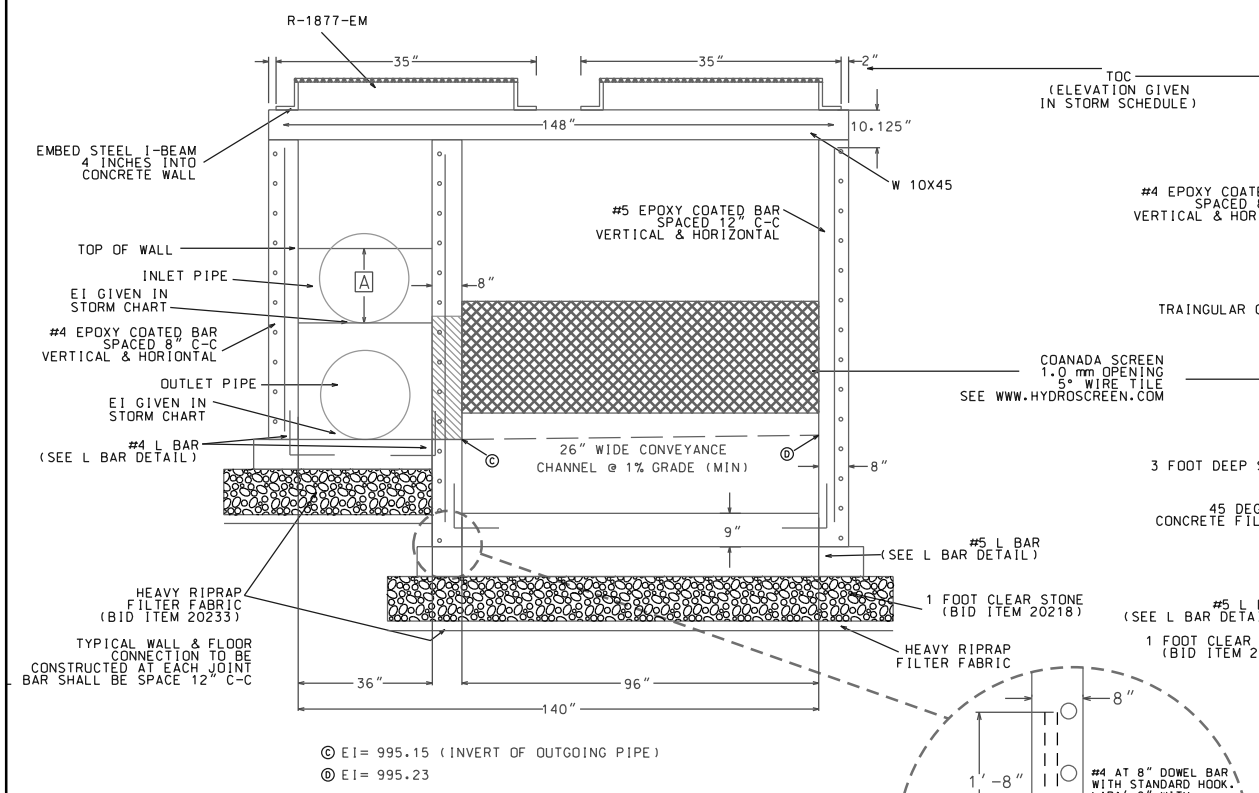
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

SECTION A-A

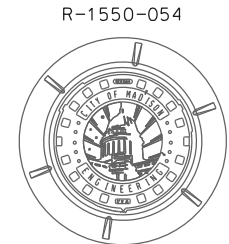
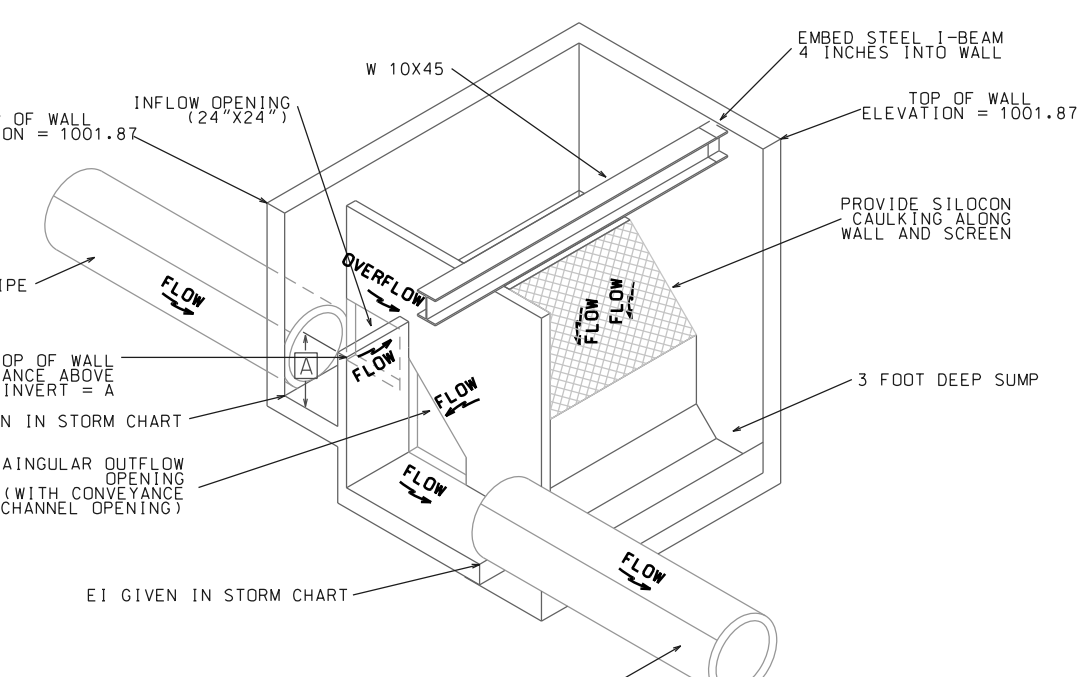
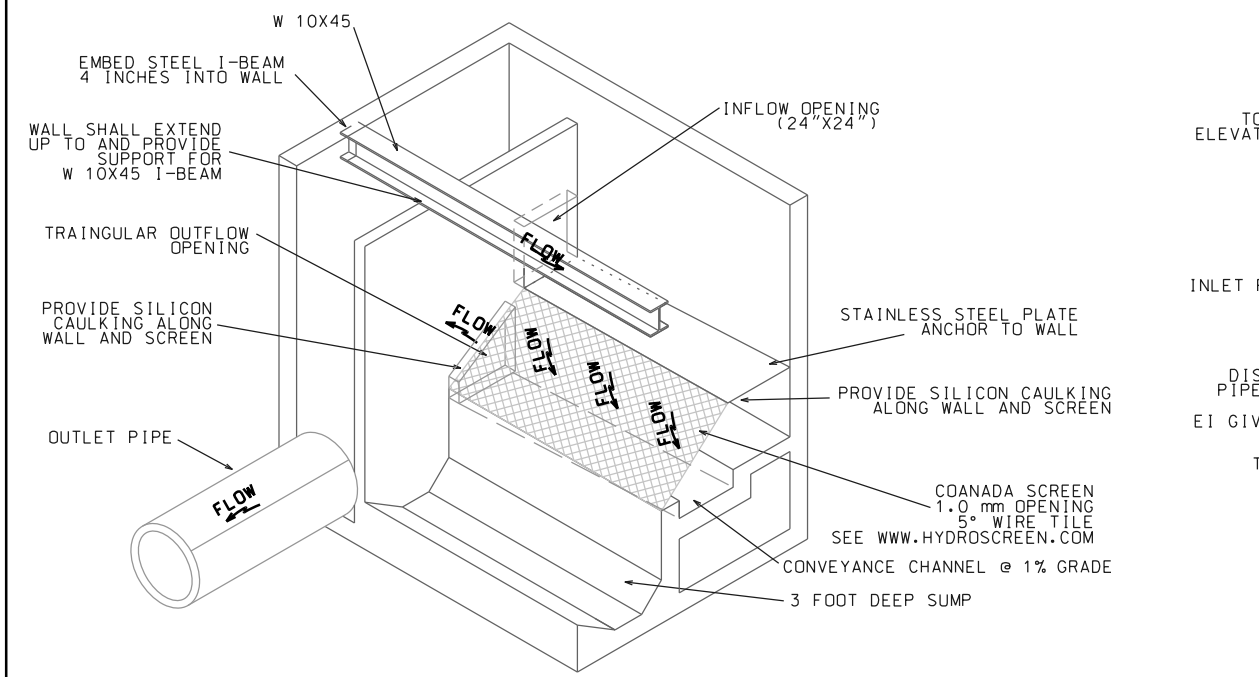
SECTION B-B



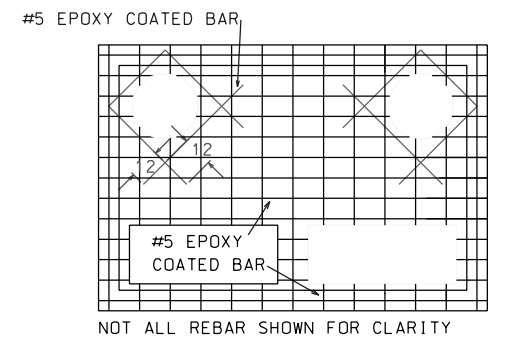
PIPE SIZE	DIMENSION A	DIMENSION B
30"	20"	87" (MIN) 90.48' AS DESIGNED

NE ISOMETRIC VIEW
(SIDEWALLS & ROOF NOT SHOWN)

NW ISOMETRIC VIEW
(SIDEWALLS & ROOF NOT SHOWN)



ROOF REINFORCEMENT



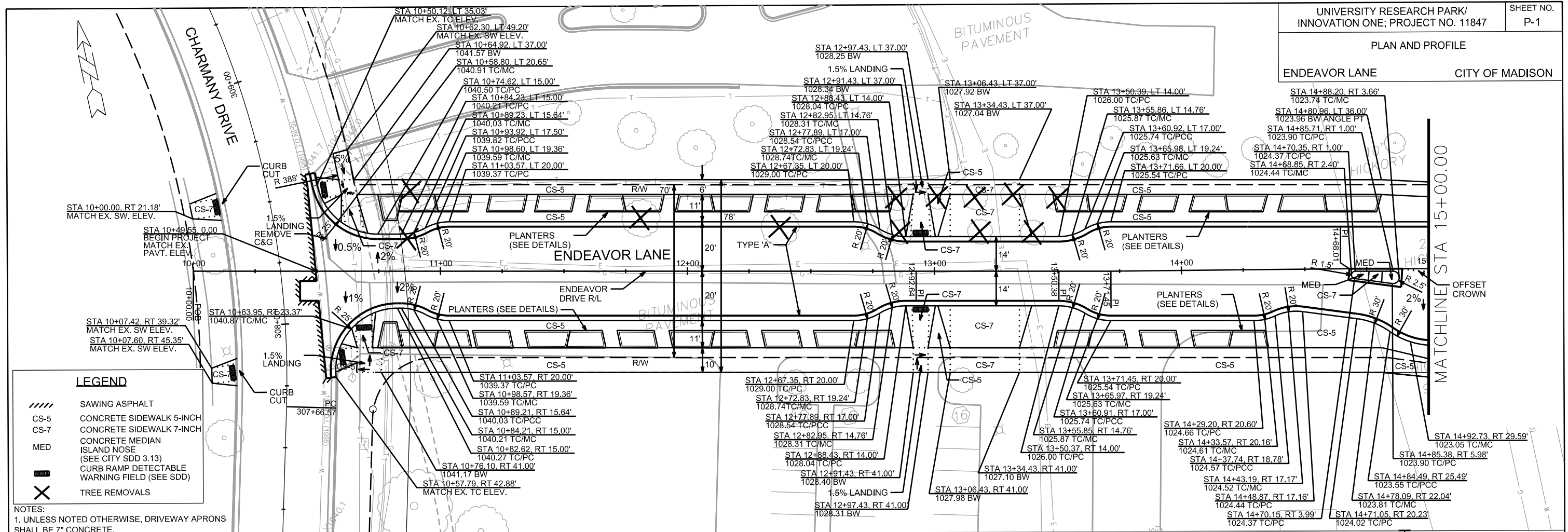
- REBAR REINFORCEMENT NOTES:
1. EPOXY COATED REBARS SHALL BE USED IN ALL CASES
 2. #5 REBARS PLACED 9" ON CENTER EACH WAY WITH 2" CLEAR FROM BOTTOM OF SLAB
 3. ROOF THICKNESS SHALL BE 8" MINIMUM
 4. ALL WALLS ARE 8" THICK
 5. WALL REINFORCEMENT #4 AT 8" ON CENTER EACH WAY
 6. FLOOR REINFORCEMENT #4 AT 12" ON CENTER EACH WAY

PLOT SCALE:

PLOT NAME:

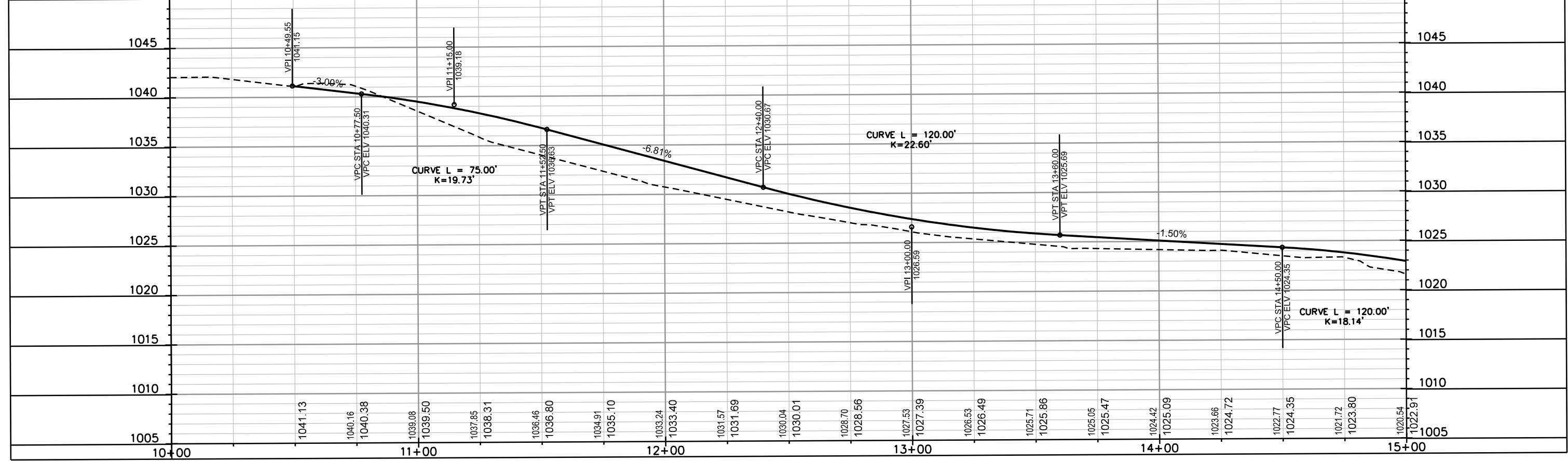
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



- LEGEND**
- //// SAWING ASPHALT
 - CS-5 CONCRETE SIDEWALK 5-INCH
 - CS-7 CONCRETE SIDEWALK 7-INCH
 - MED CONCRETE MEDIAN ISLAND NOSE (SEE CITY SDD 3.13)
 - CURB RAMP DETECTABLE
 - WARNING FIELD (SEE SDD)
 - X TREE REMOVALS

NOTES:
1. UNLESS NOTED OTHERWISE, DRIVEWAY APRONS SHALL BE 7" CONCRETE.



PLOT SCALE: _____

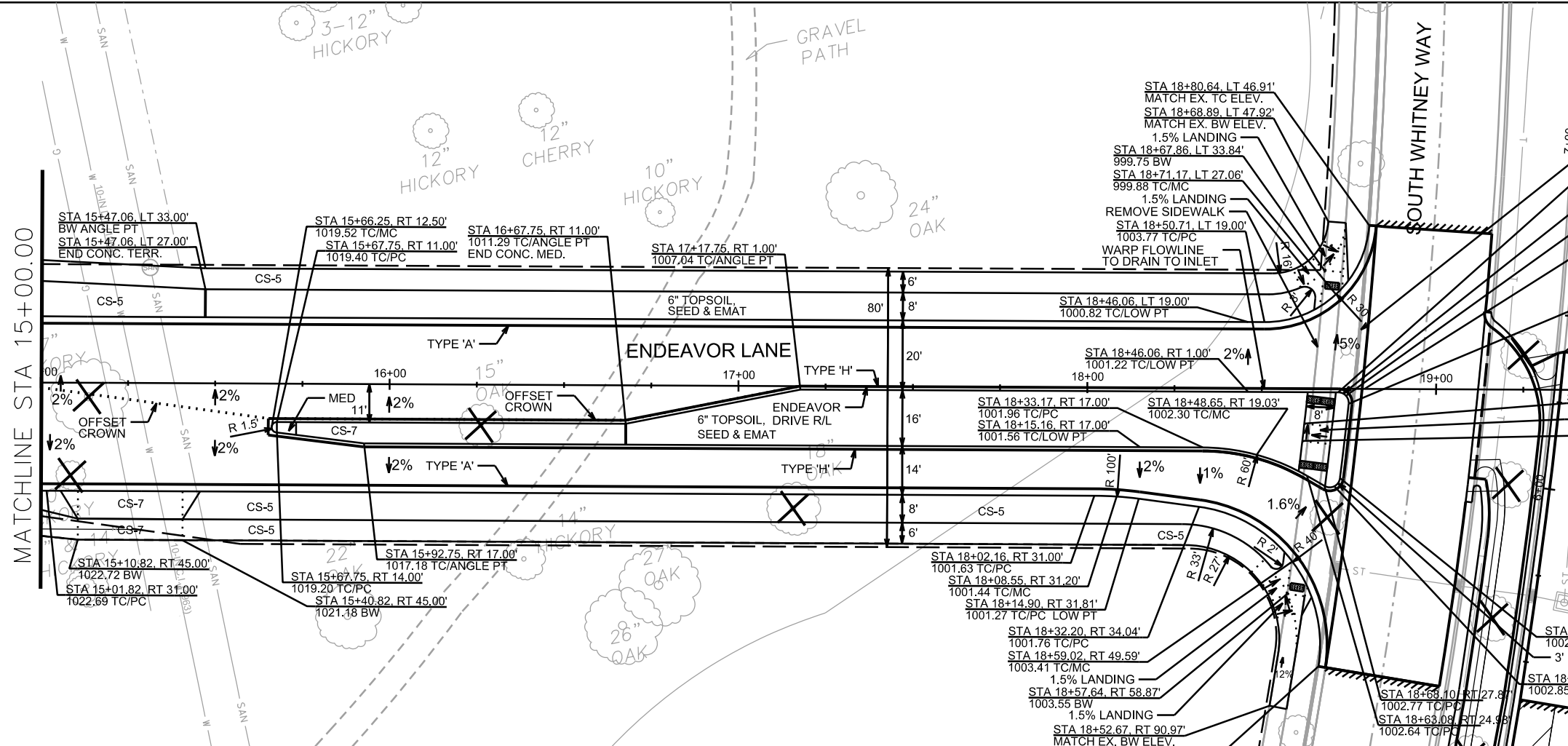
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE

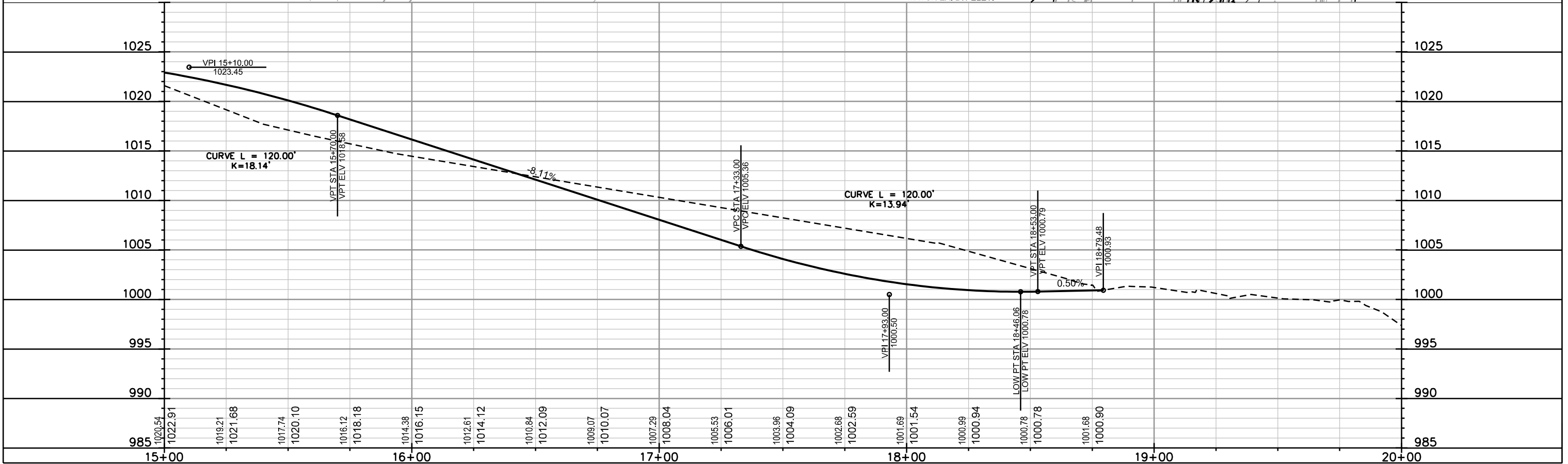
ENDEAVOR LANE CITY OF MADISON



LEGEND

	SAWING ASPHALT
	CONCRETE SIDEWALK 5-INCH
	CONCRETE SIDEWALK 7-INCH
	CONCRETE MEDIAN ISLAND NOSE (SEE CITY SDD 3.13)
	CURB RAMP DETECTABLE WARNING FIELD (SEE SDD)
	TREE REMOVALS

NOTES:
1. UNLESS NOTED OTHERWISE, DRIVEWAY APRONS SHALL BE 7" CONCRETE.



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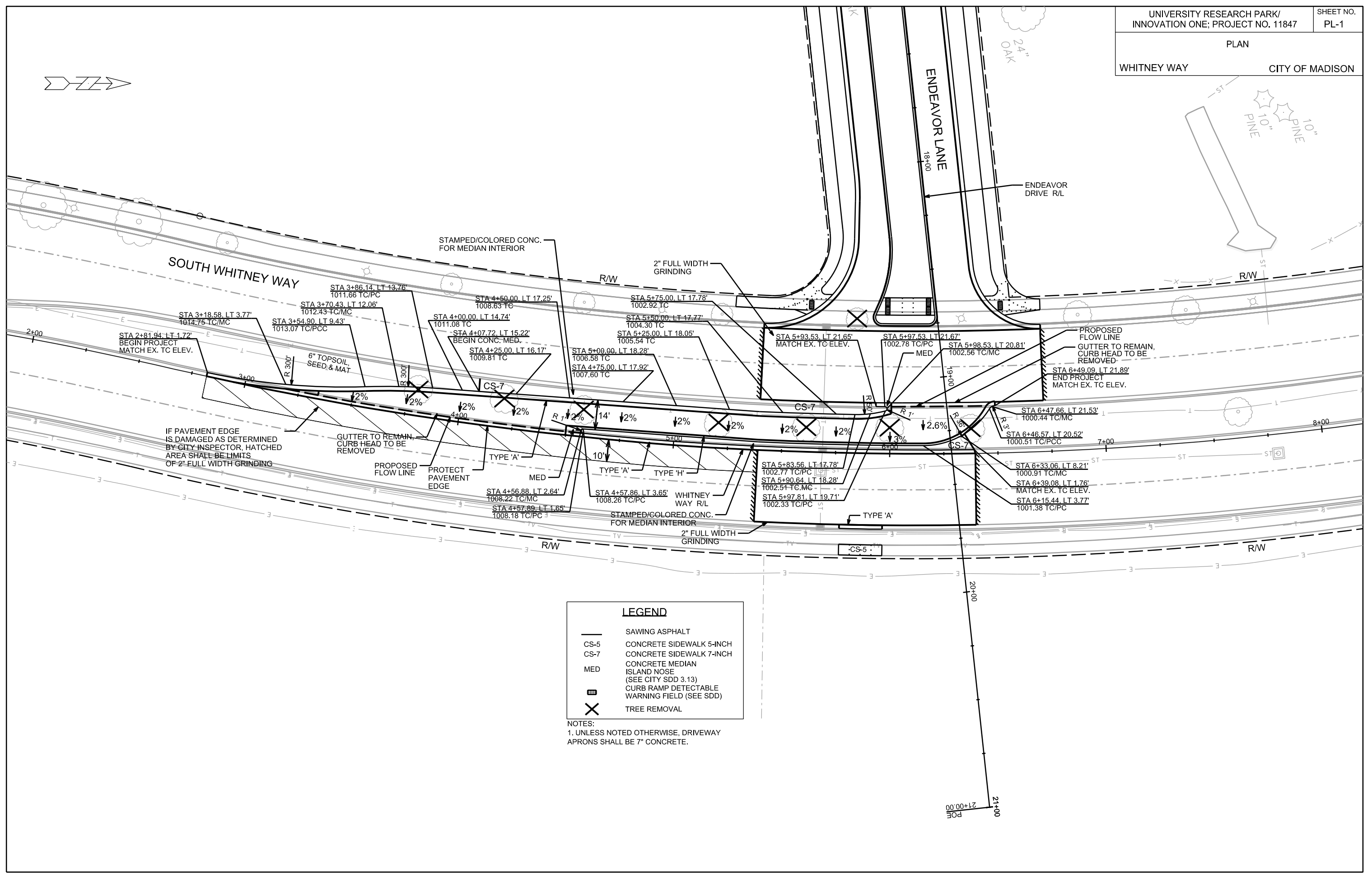
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



LEGEND

- SAWING ASPHALT
- CS-5 CONCRETE SIDEWALK 5-INCH
- CS-7 CONCRETE SIDEWALK 7-INCH
- MED CONCRETE MEDIAN ISLAND NOSE (SEE CITY SDD 3.13)
- ▨ CURB RAMP DETECTABLE WARNING FIELD (SEE SDD)
- ✕ TREE REMOVAL

NOTES:
1. UNLESS NOTED OTHERWISE, DRIVEWAY APRONS SHALL BE 7" CONCRETE.

REVISION 4/5/19 AJZ
- Added Plan Note

UNIVERSITY RESEARCH PARK/ INNOVATION ONE; PROJECT NO. 11847	SHEET NO. PL-2
PLAN	
CHARMANY DRIVE	CITY OF MADISON



LEGEND

—	SAWING ASPHALT
CS-5	CONCRETE SIDEWALK 5-INCH
CS-7	CONCRETE SIDEWALK 7-INCH
MED	CONCRETE MEDIAN ISLAND NOSE (SEE CITY SDD 3.13)
■	CURB RAMP DETECTABLE WARNING FIELD (SEE SDD)
X	TREE REMOVAL

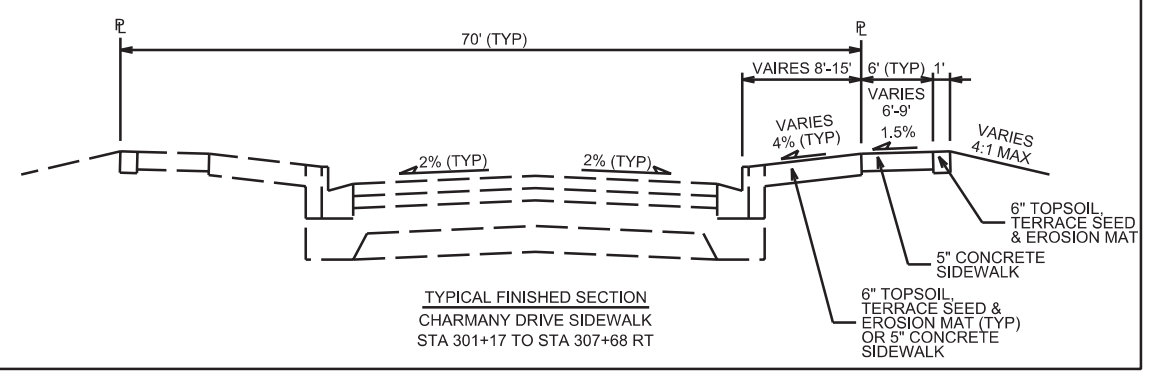
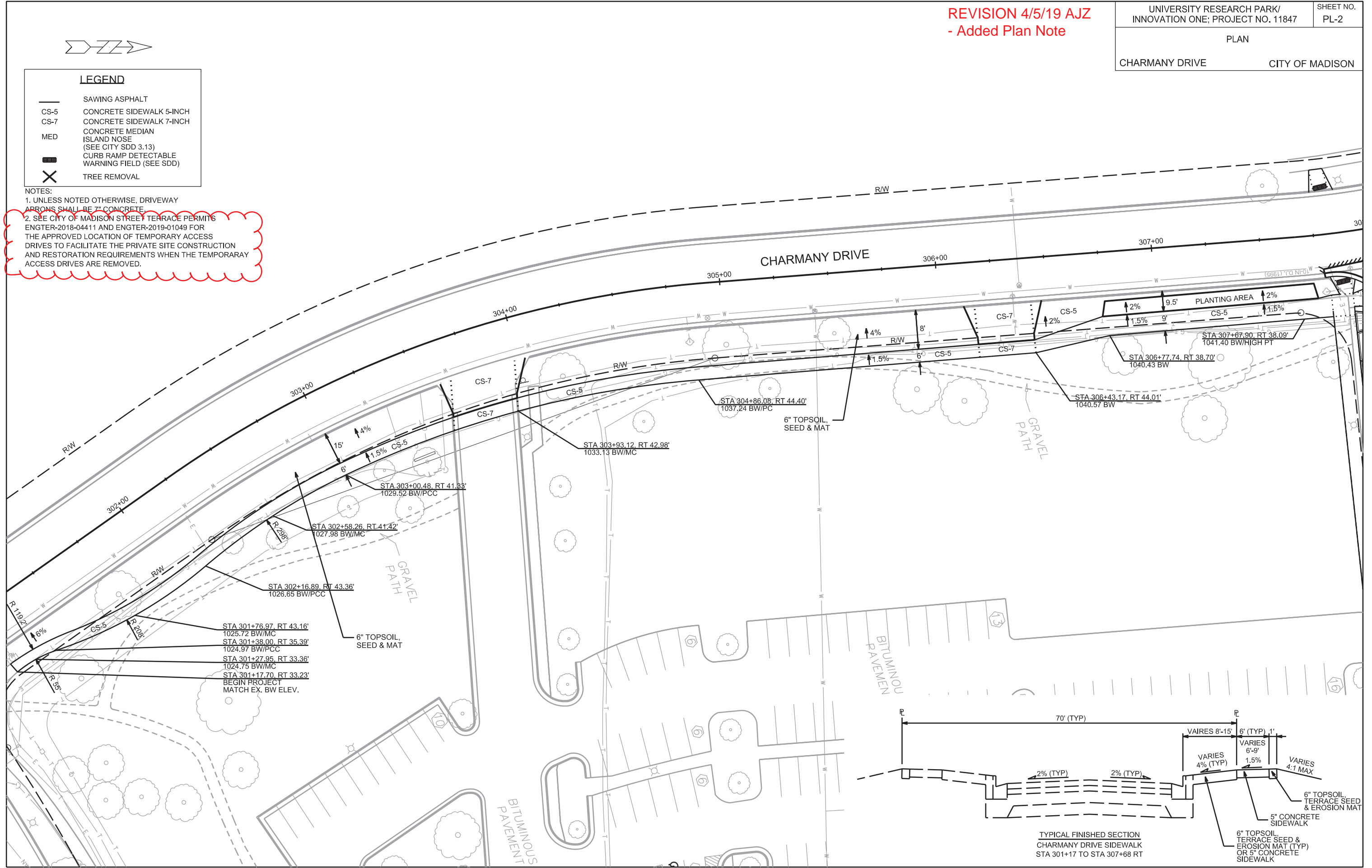
NOTES:
1. UNLESS NOTED OTHERWISE, DRIVEWAY APRONS SHALL BE 7" CONCRETE.
2. SEE CITY OF MADISON STREET TERRACE PERMITS ENGT-2018-04411 AND ENGT-2019-01049 FOR THE APPROVED LOCATION OF TEMPORARY ACCESS DRIVES TO FACILITATE THE PRIVATE SITE CONSTRUCTION AND RESTORATION REQUIREMENTS WHEN THE TEMPORARY ACCESS DRIVES ARE REMOVED.

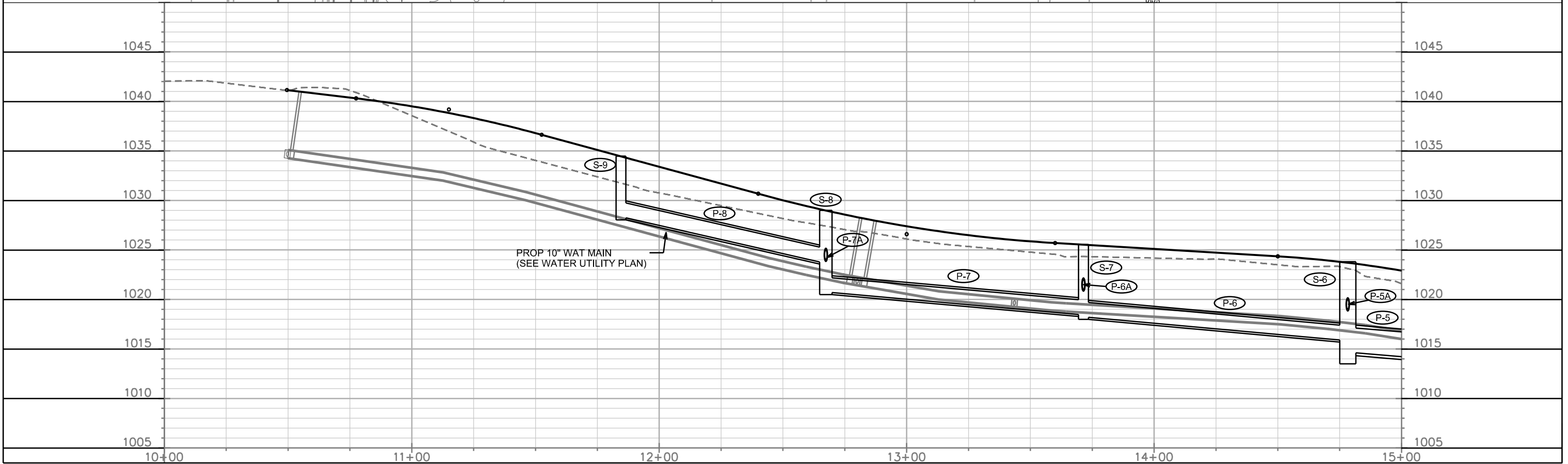
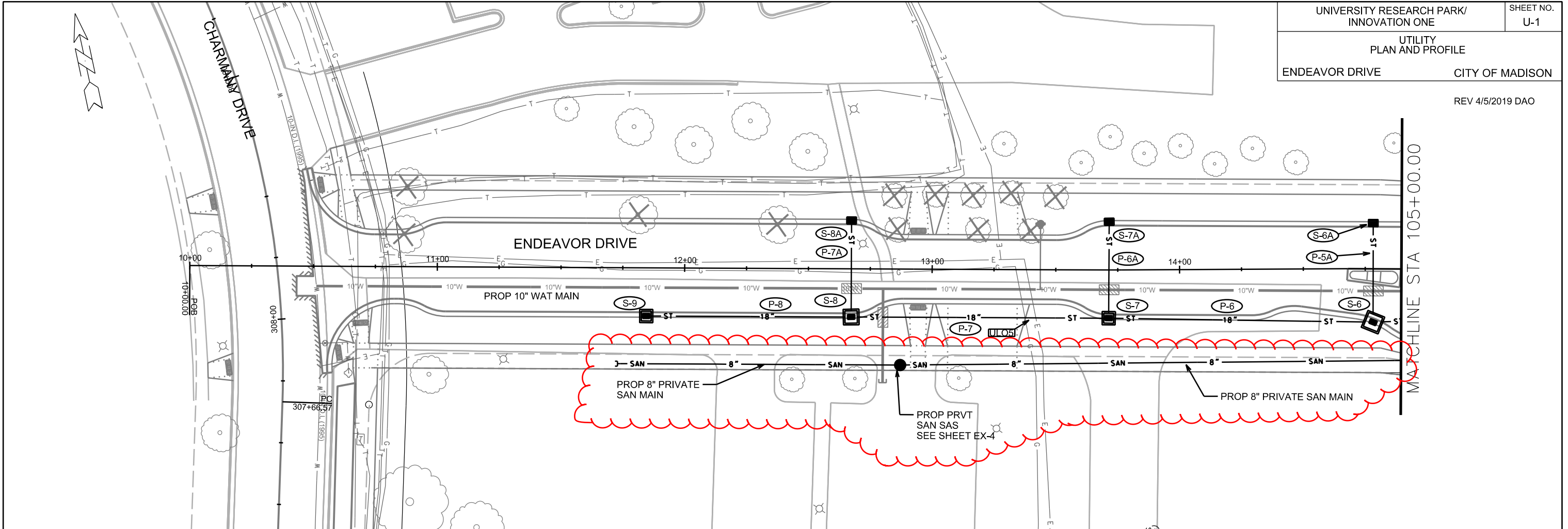
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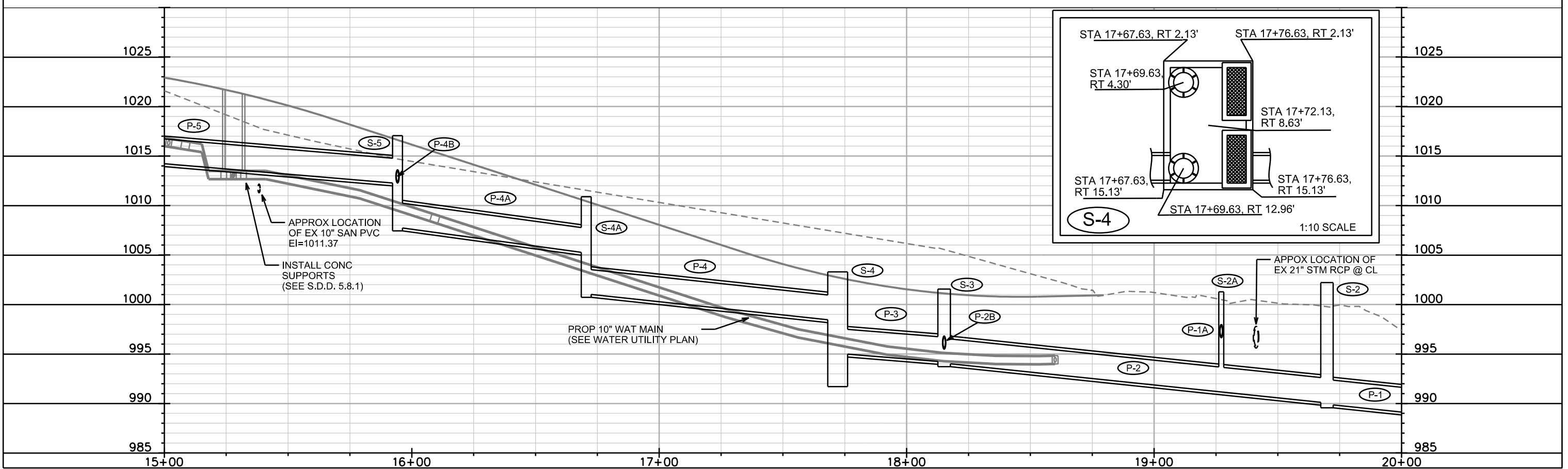
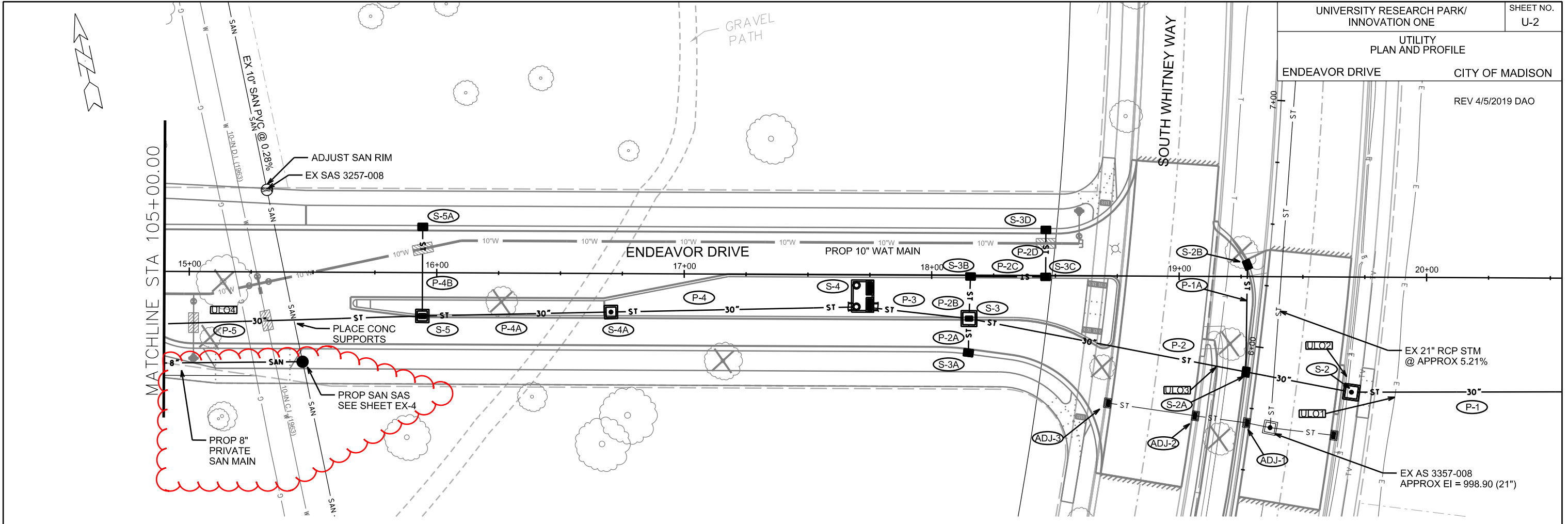


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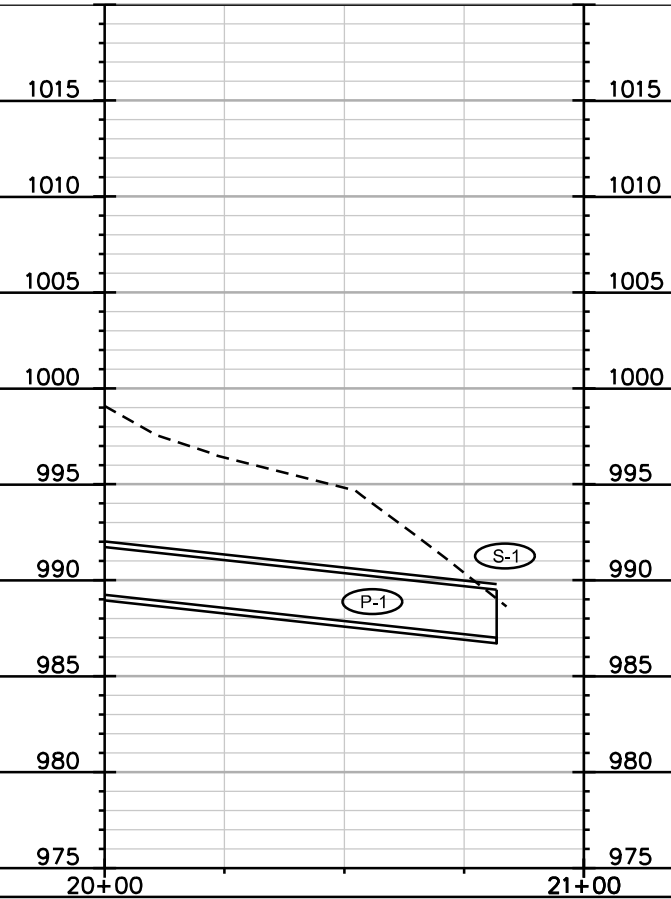
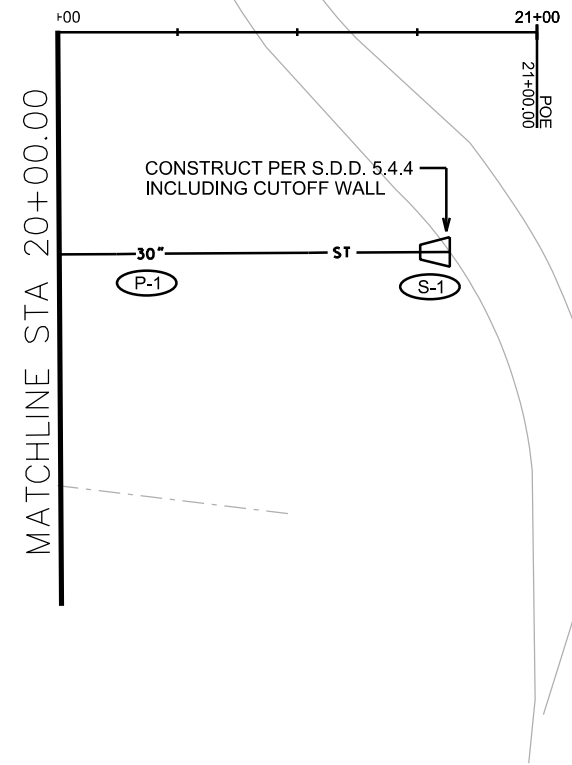
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

UTILITY
PLAN AND PROFILE

S WHITNEY WAY POND

CITY OF MADISON



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

STORM SEWER SCHEDULE

UNIVERSITY RESEARCH PARK/ INNOVATION ONE	SHEET NO. U-4
STORM SEWER SCHEDULE	
PROJ #11847	CITY OF MADISON

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
ENDEAVOR LN							
S-1	20+81.80	RT-45.79	30" AE W/ GATE	-	987.00	-	
S-2	19+69.84	RT-46.51	5X5 SAS	1002.21	989.99	12.22	W/1550-0054
S-2A	19+27.14	RT-38.53	SADDLED H TYPE 2	1001.28	993.64	7.64	W/3067-7004-V
S-2B	19+27.58	LT-4.78	H INLET	1000.91	997.41	3.50	W/3067-7004-V
S-3	18+15.16	RT-17.50	5X5 SAS	1001.56	994.15	7.41	LP; W/3067-7004-VB
S-3A	18+14.96	RT-31.32	H INLET	1001.27	996.27	5.00	LP; W/3067-7004-VB
S-3B	18+15.69	RT-0.50	H INLET	1001.55	996.63	4.92	W/3067-7004-V
S-3C	18+46.06	RT-0.50	H INLET	1001.22	997.15	4.07	LP; W/3067-7004-VB
S-3D	18+46.06	LT-18.50	H INLET	1000.82	997.42	3.40	LP; W/3067-7004-VB
S-4	17+72.13	RT-8.63	SC TR DEVICE	1003.29	995.15	8.14	FP; (1)
S-4A	16+70.47	RT-15.56	4X4 SAS	1010.88	1001.12	9.76	FP; W/1550-0054
S-5	15+94.25	RT-17.50	4X4 SAS	1017.05	1001.12	15.93	FP; W/3067-7004-V
S-5A	15+94.25	LT-18.50	H INLET	1016.65	1013.15	3.50	W/3067-7004-V
S-6	14+78.27	RT-21.58	6X6 SAS	1023.81	1013.50	10.31	W/3067-7004-V; (2)
S-6A	14+78.18	LT-18.50	H INLET	1023.75	1020.25	3.50	W/3067-7004-V
S-7	13+71.45	RT-19.50	4X4 SAS	1025.54	1018.29	7.25	W/3067-7004-V
S-7A	13+71.66	LT-19.50	H INLET	1025.54	1022.04	3.50	W/3067-7004-V
S-8	12+67.35	RT-19.50	5X5 SAS	1029.00	1020.80	8.20	W/3067-7004-V; (3)
S-8A	12+67.35	LT-19.50	H INLET	1029.00	1025.50	3.50	W/3067-7004-V
S-9	11+84.54	RT-19.50	4X4 SAS	1034.47	1028.47	6.00	W/3067-7004-V

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
ENDEAVOR LN										
P-1	S-1	S-2	987.00	989.99	112	109	2.73%	30"	RCP	
P-1A	S-SA	S-2B	996.81	997.41	43	40	1.49%	12"	RCP	NCM
P-2	S-2	S-3	989.99	994.15	157	152	2.73%	30"	RCP	
P-2A	S-3	S-3A	995.65	996.27	14	10	6.02%	12"	RCP	
P-2B	S-3	S-3B	995.40	996.63	17	14	9.11%	15"	RCP	
P-2C	S-3B	S-3C	996.88	997.15	29	27	0.99%	12"	RCP	
P-2D	S-3C	S-3D	997.25	997.42	18	17	1.00%	12"	RCP	
P-3	S-3	S-4	994.15	995.15	43	37	2.72%	30"	RCP	
P-4	S-4	S-4A	998.25	1001.12	102	96	2.99%	30"	RCP	
P-4A	S-4A	S-5	1005.13	1007.87	76	72	3.81%	30"	RCP	NCM
P-4B	S-5	S-5A	1012.44	1013.15	36	33	2.15%	12"	RCP	NCM
P-5	S-5	S-6	1012.19	1014.75	116	111	2.31%	30"	RCP	NCM
P-5A	S-6	S-6A	1019.00	1020.25	40	36	3.49%	12"	RCP	NCM
P-6	S-6	S-7	1015.75	1018.29	107	102	2.50%	18"	RCP	
P-6A	S-7	S-7A	1021.00	1022.04	39	36	2.89%	12"	RCP	NCM
P-7	S-7	S-8	1018.39	1020.80	104	100	2.42%	18"	RCP	
P-7A	S-8	S-8A	1024.00	1025.50	39	36	4.23%	12"	RCP	NCM
P-8	S-8	S-9	1023.50	1028.47	83	78	6.35%	18"	RCP	

ADJUST STORM STRUCTURES

STRUC. NO.	TYPE	STATION	LOCATION (OFFSET)	TOP OF CASTING	PROP TOC	ADJ (FT)	NOTES
S WHITNEY WAY							
ADJ-1	IN 3357-011	5+68.98	LT-1.26	1002.45	1002.44	-0.01	
ADJ-2	IN 3357-010	5+68.88	LT-21.55	1003.69	1003.03	-0.66	
ADJ-3	IN 3357-009	5+69.00	LT-58.02	1003.27	1003.30	0.03	(4)

STORM SEWER ULOs

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
ULO1	19+87.66	RT-46.40	ELEC	
ULO2	19+68.29	RT-46.30	ELEC/TEL	
ULO3	19+15.14	RT-36.25	TEL	
ULO4	15+22.76	RT-20.01	GAS	
ULO5	13+39.45	RT-19.50	GAS/ELEC	

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.

SPECIFIC NOTES

- (1) STA & LOC OF CENTER OF STRUCTURE GIVEN; SEE DETAIL SHEET D-1 SCREEN TREATMENT DEVICE
- (2) PROP PRVT CONNECTION 30" RCP @ EI=1030.50 (S)
- (3) PROP PRVT CONNECTION 18" RCP @ EI=1020.90 (S)
- (4) REPLACE EXISTING CASTING WITH R-3067-7009 FOR MOUNTABLE CURB

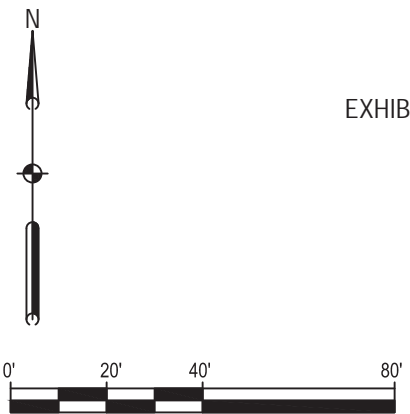
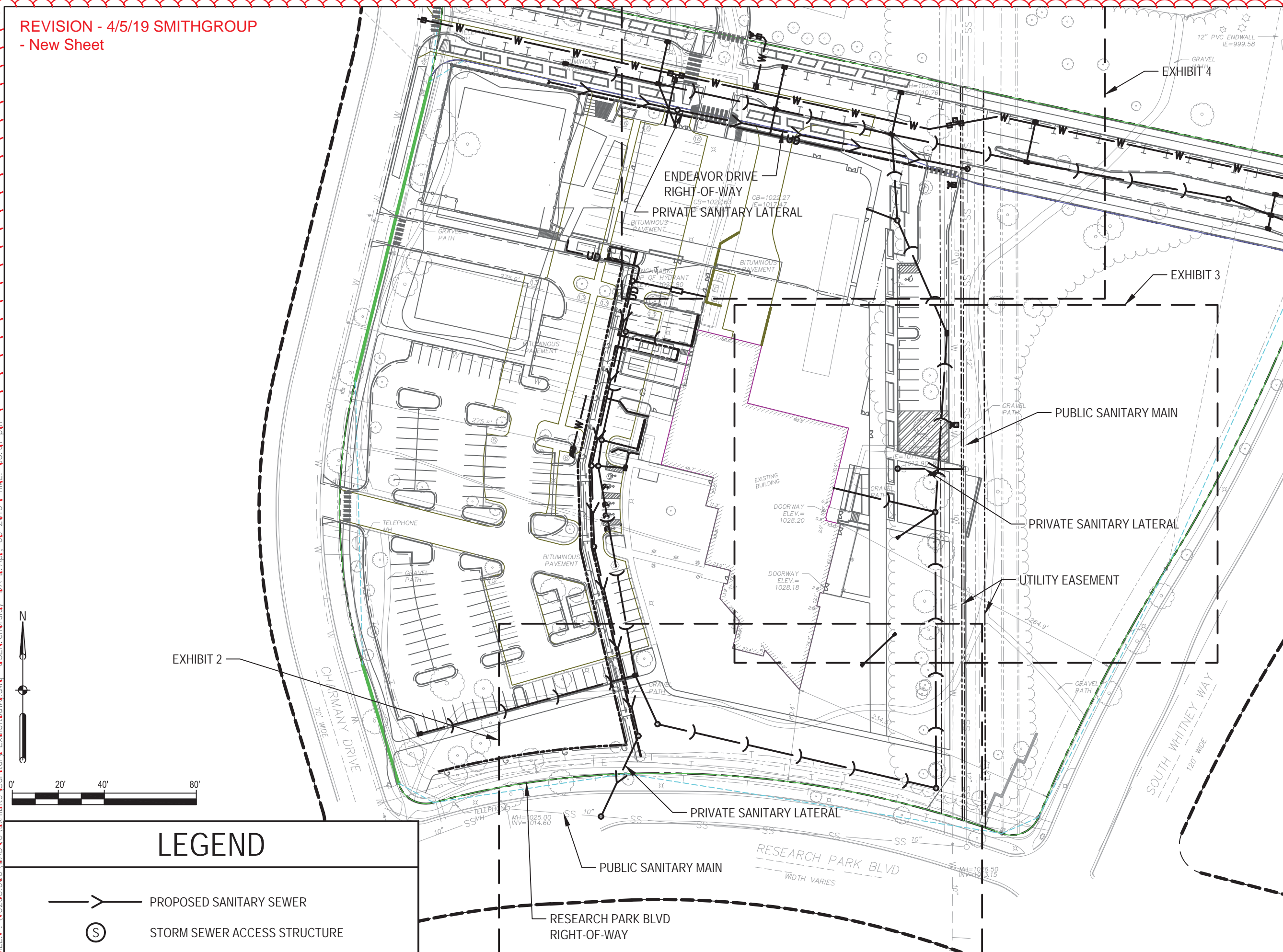
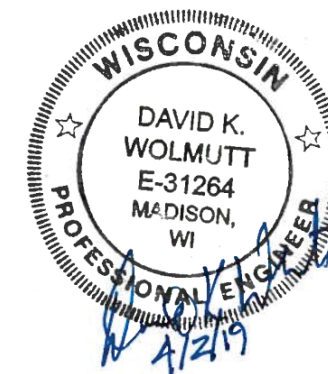
STANDARD NOTES:

- 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 DANIEL OLIVARES OF CITY ENGINEERING AT (608) 261-9285 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO DAOLIVARES@CITYOFMADISON.COM.



REVISION - 4/5/19 SMITHGROUP
- New Sheet

SMITHGROUP

44 EAST MIFFLIN STREET
SUITE 500
MADISON, WI 53703
608.251.1177
www.smithgroup.com



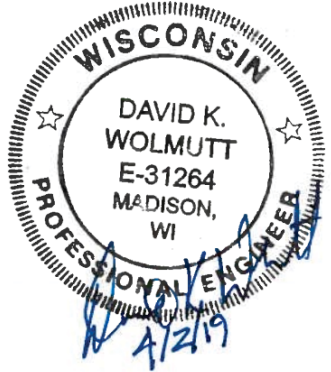
LEGEND

-  PROPOSED SANITARY SEWER
-  STORM SEWER ACCESS STRUCTURE

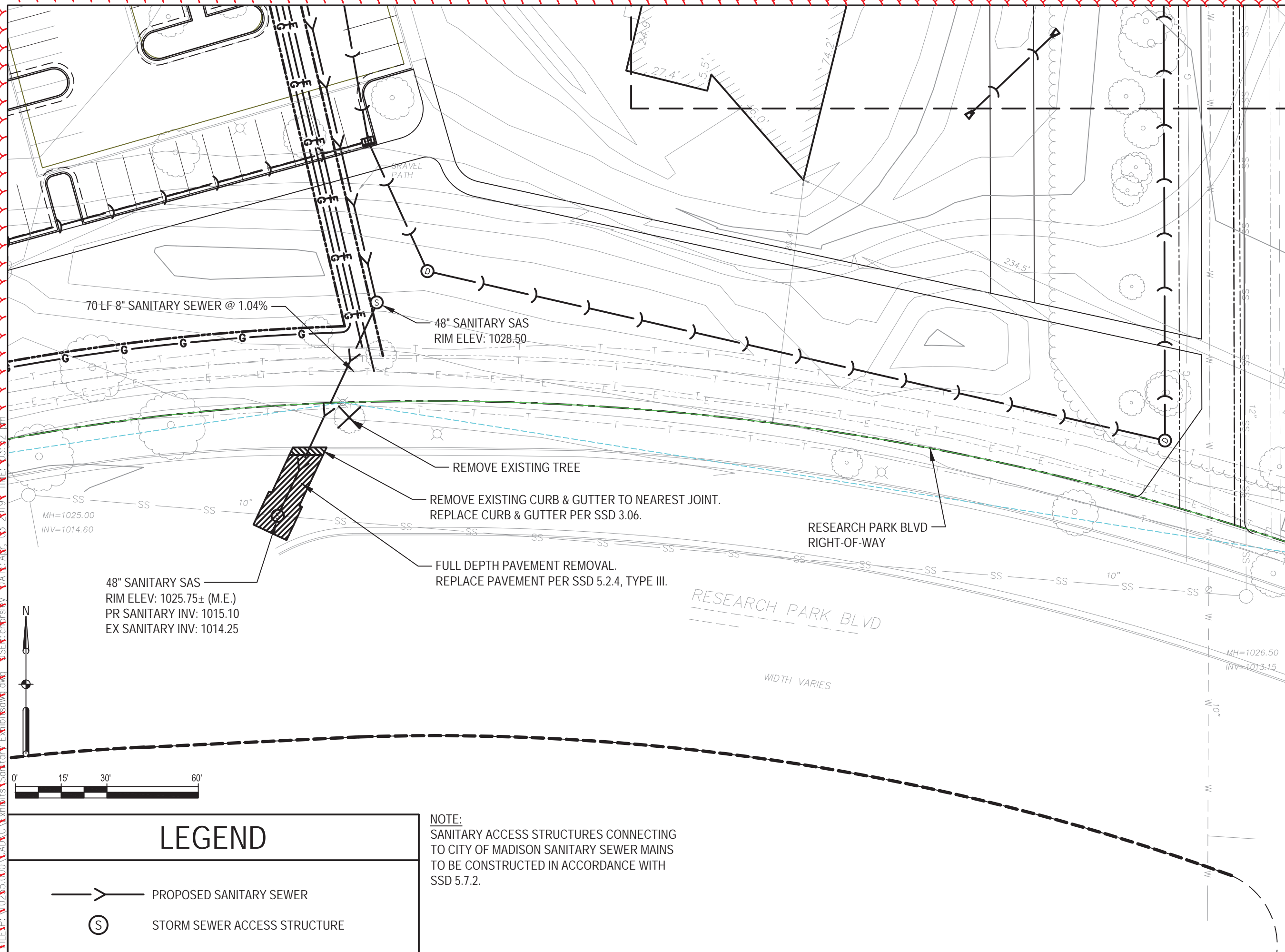
SANITARY EXHIBIT - 1	
DRAWING TITLE ENDEAVOR DRIVE -	
CITY OF MADISON	
ISSUED WITH	
DRAWING REFERENCE	
1" = 80'-0"	
DRAWING SCALE	
4/2/2019	
DATE	
UNIVERSITY RESEARCH PARK/ INNOVATION ONE	
PROJECT NAME	
10235.000	
PROJECT NUMBER	
EX-1	
DRAWING NUMBER	

SMITHGROUP

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 MADISON, WI 53703
 608.251.1177
 www.smithgroup.com



REVISION - 4/5/19
 SMITHGROUP
 - New Sheet



SANITARY EXHIBIT - 2

DRAWING TITLE
 ENDEAVOR DRIVE -
 CITY OF MADISON
 ISSUED WITH

DRAWING REFERENCE

1" = 30'-0"

DRAWING SCALE

4/2/2019

DATE
 UNIVERSITY RESEARCH PARK/
 INNOVATION ONE
 PROJECT NAME

10235.000

PROJECT NUMBER

EX-2

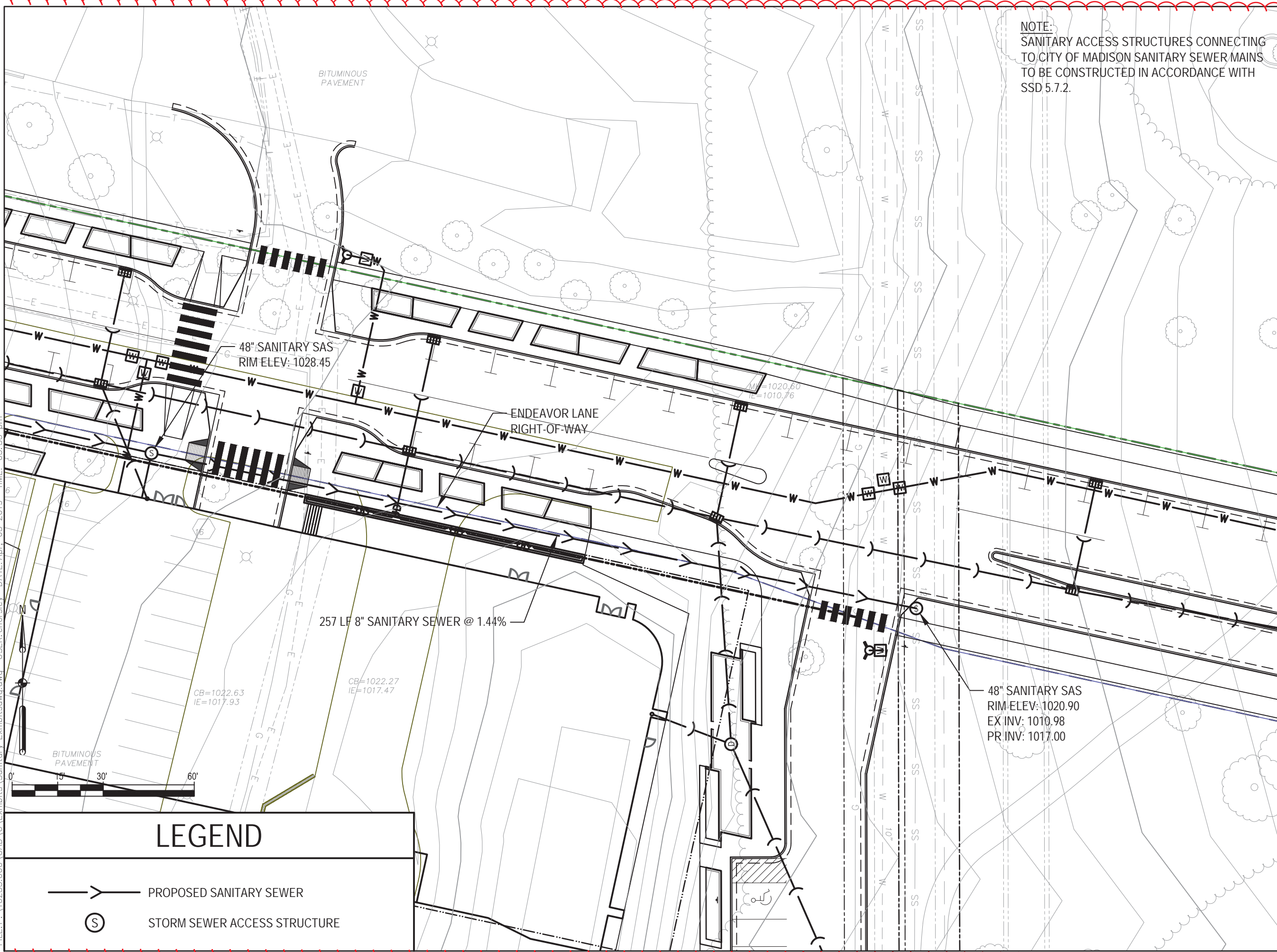
DRAWING NUMBER

LEGEND

- PROPOSED SANITARY SEWER
- STORM SEWER ACCESS STRUCTURE

NOTE:
 SANITARY ACCESS STRUCTURES CONNECTING
 TO CITY OF MADISON SANITARY SEWER MAINS
 TO BE CONSTRUCTED IN ACCORDANCE WITH
 SSD 5.7.2.

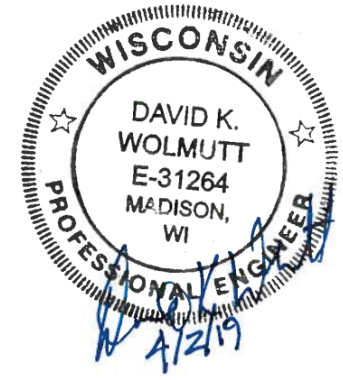
FILE: P:\119231\000\CAD\Exhibits\Sanitary Exhibit\swa.dwg USER: eholsiev DATE: Apr 03 2019 TIME: 05:33 pm



NOTE:
 SANITARY ACCESS STRUCTURES CONNECTING
 TO CITY OF MADISON SANITARY SEWER MAINS
 TO BE CONSTRUCTED IN ACCORDANCE WITH
 SSD 5.7.2.

SMITHGROUP

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 MADISON, WI 53703
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REVISION - 4/5/19
 SMITHGROUP
 - New Sheet

SANITARY EXHIBIT - 4
 DRAWING TITLE
 ENDEAVOR DRIVE -
 CITY OF MADISON
 ISSUED WITH

DRAWING REFERENCE
 1" = 30'-0"
 DRAWING SCALE

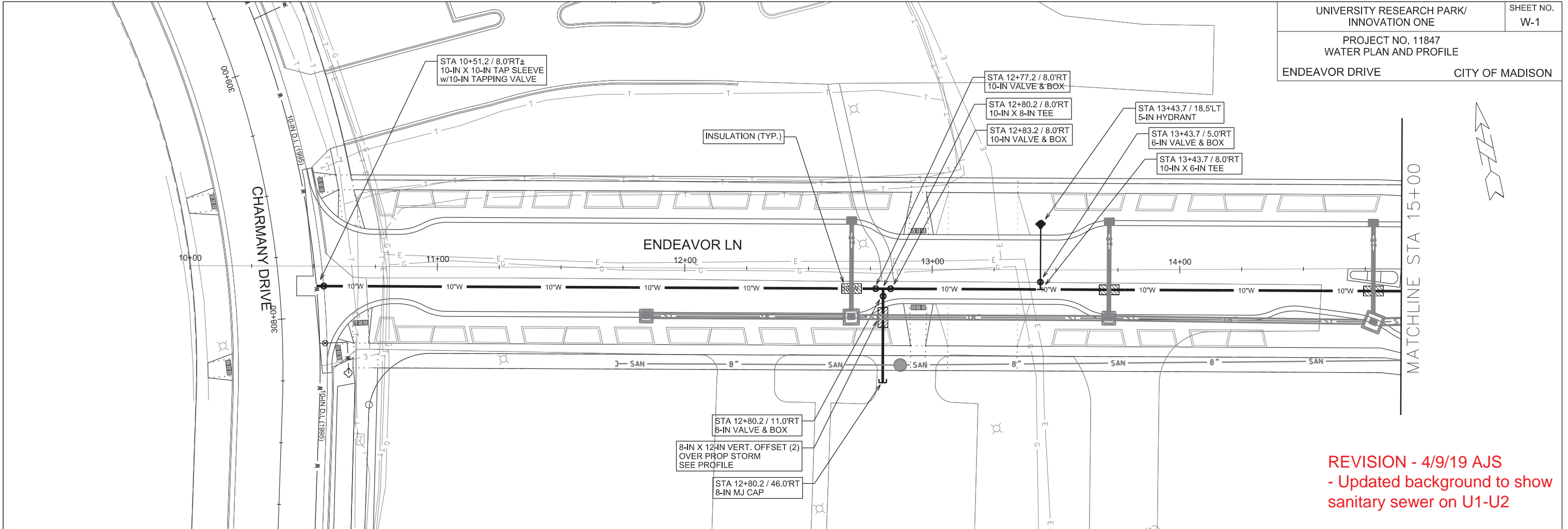
4/2/2019
 DATE
 UNIVERSITY RESEARCH PARK/
 INNOVATION ONE
 PROJECT NAME

10235.000
 PROJECT NUMBER

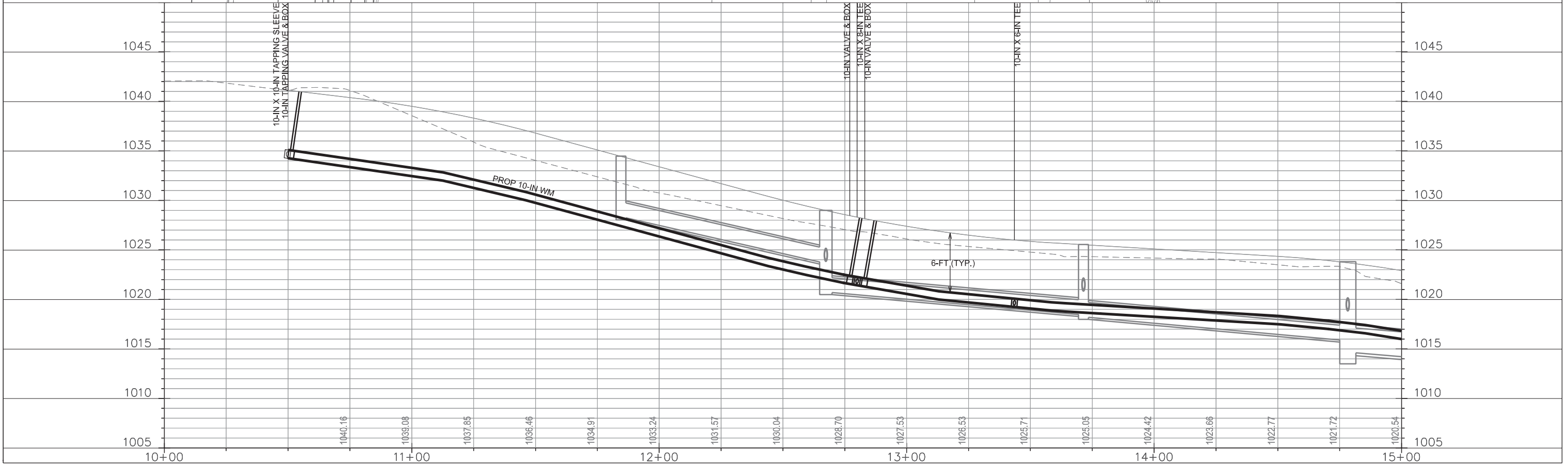
EX-4
 DRAWING NUMBER

LEGEND

- PROPOSED SANITARY SEWER
- STORM SEWER ACCESS STRUCTURE



REVISION - 4/9/19 AJS
- Updated background to show sanitary sewer on U1-U2

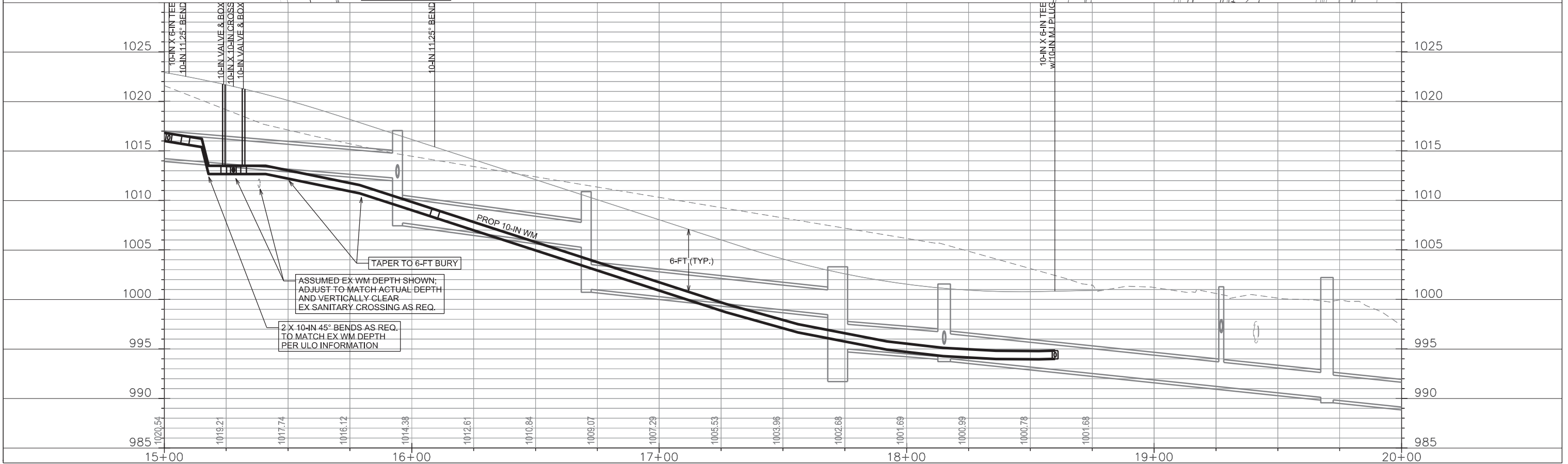
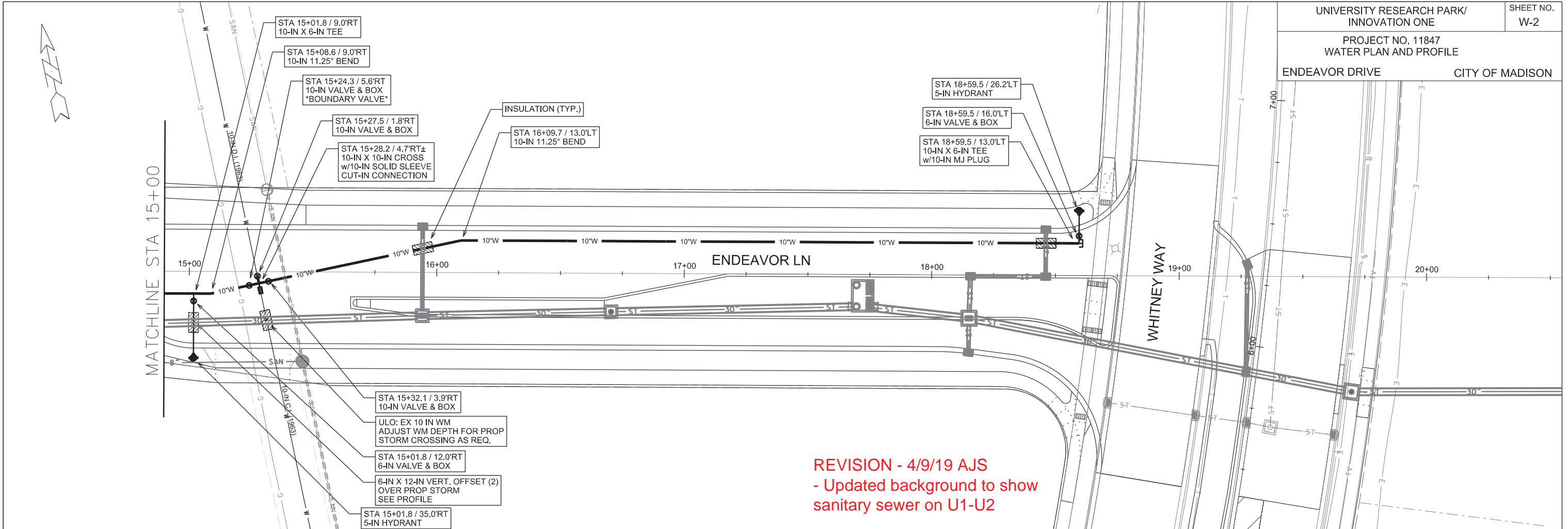


PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE:

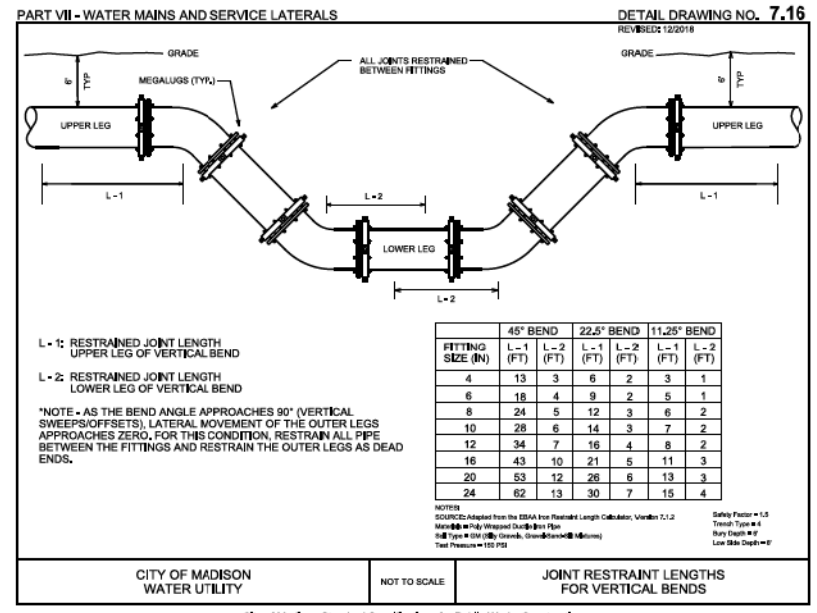
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CONSTRUCTION NOTES:

- CONSTRUCT NEW WATER MAIN 6.0' BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. INSULATE MAIN WITH POLYSTYRENE BOARD AT STORM SEWER UTILITY CROSSINGS OR OTHER AREAS IDENTIFIED BY ENGINEER AS HAVING INADEQUATE COVER.
 - VERIFY SIZE OF EXISTING WATER SERVICES AND RECONNECT SERVICES AS INDICATED.
 - MINIMIZE DISRUPTION OF SERVICE TO EXISTING CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.
 - 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 FROM THE OLDER WATER MAIN TO THE NEWER WATER MAIN.
- WN3 EXISTING SERVICE TO BE ABANDONED WHEN THE WATER MAIN IS CUT OFF; ABANDON CURB BOX AS REQUIRED.
- WN4 DISCONNECT FROM THE OLDER WATER MAIN AND RECONNECT THE EXISTING COPPER WATER SERVICE LATERAL TO THE NEWER 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



ESTIMATE OF PROJECT WATER MATERIALS - FROM CONTRACTOR:

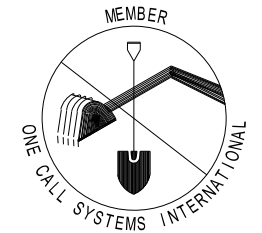
* ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF. ALWAYS REFER TO PLANS.

WATER ASSETS	TOTAL
6-IN PIPE (LF)	70
8-IN PIPE (LF)	40
10-IN PIPE (LF)	820
POLY WRAP	1050
6-IN VALVE & BOX	3
8-IN VALVE & BOX	1
10-IN VALVE & BOX	5
10-IN - 11.25° BEND	2
10-IN - 45° BEND (AS REQ.)	2
10-IN X 6-IN TEE	3
10-IN X 8-IN TEE	1
10-IN X 10-IN CROSS	1
10-IN SOLID SLEEVE	1
5-IN HYDRANT	3
10-IN MJ PLUG	1
8-IN MJ CAP	1
2-IN STYROFOAM (LF)	64
6-IN X 12-IN OFFSET	2
8-IN X 12-IN OFFSET	2
10-IN X 7-IN OFFSET (AS REQ.)	2

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.



= APPLY STYROFOAM INSULATION OVER THE WATER MAIN AND SERVICES AT STORM SEWER CROSSINGS, PER STANDARD SPECIFICATIONS

ESTIMATE OF PROJECT WATER MATERIALS - FROM CITY:

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

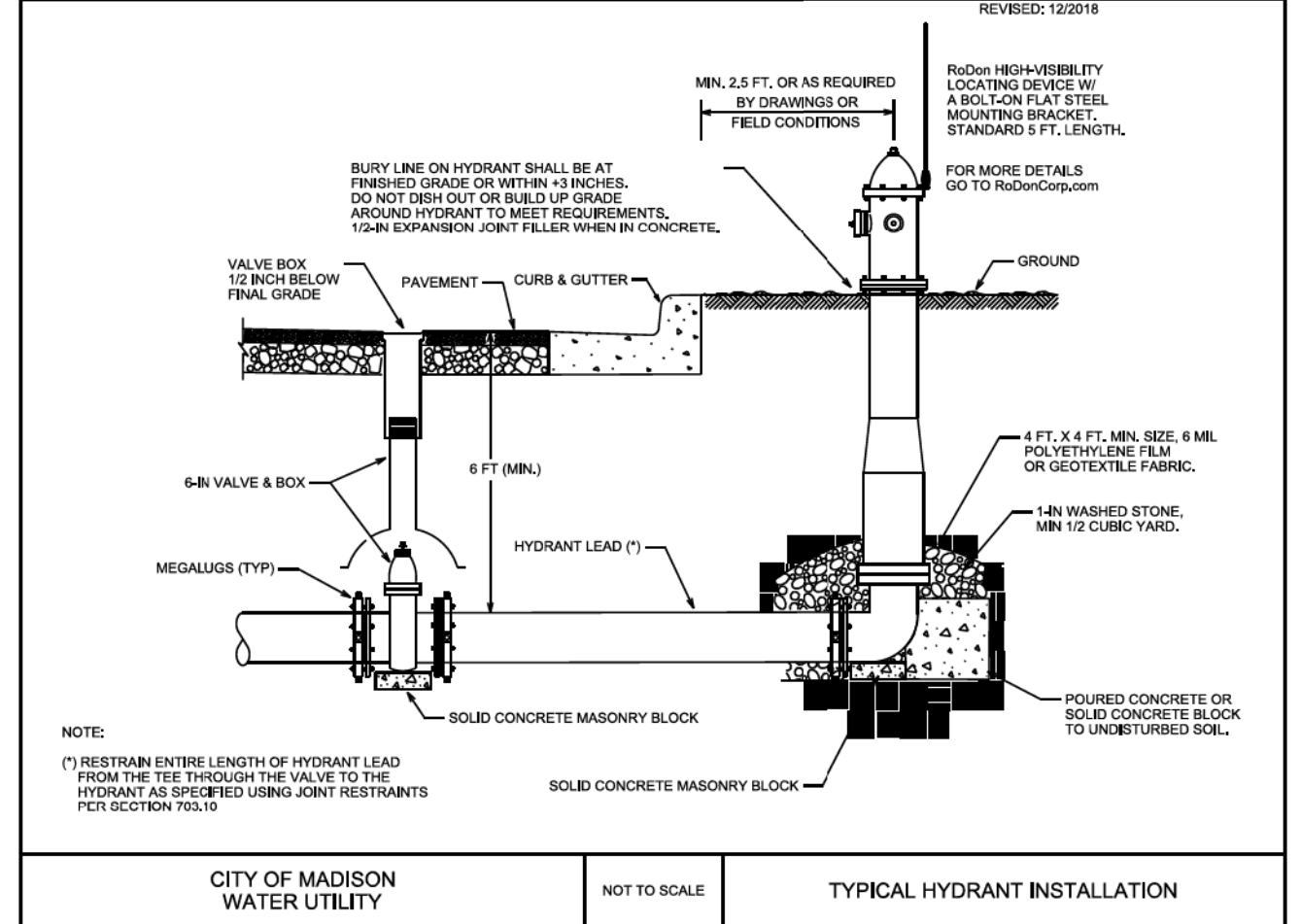
WATER ASSETS	TOTAL
10-IN TAPPING VALVE & BOX	1
10-IN X 10-IN TAPPING SLEEVE	1

UTILITY LINE OPENINGS (ULO):

STATION / OFFSET	
15+33 / 8.0'RT	WATER

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: 12/2018



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

SCALE: 1" = 30'

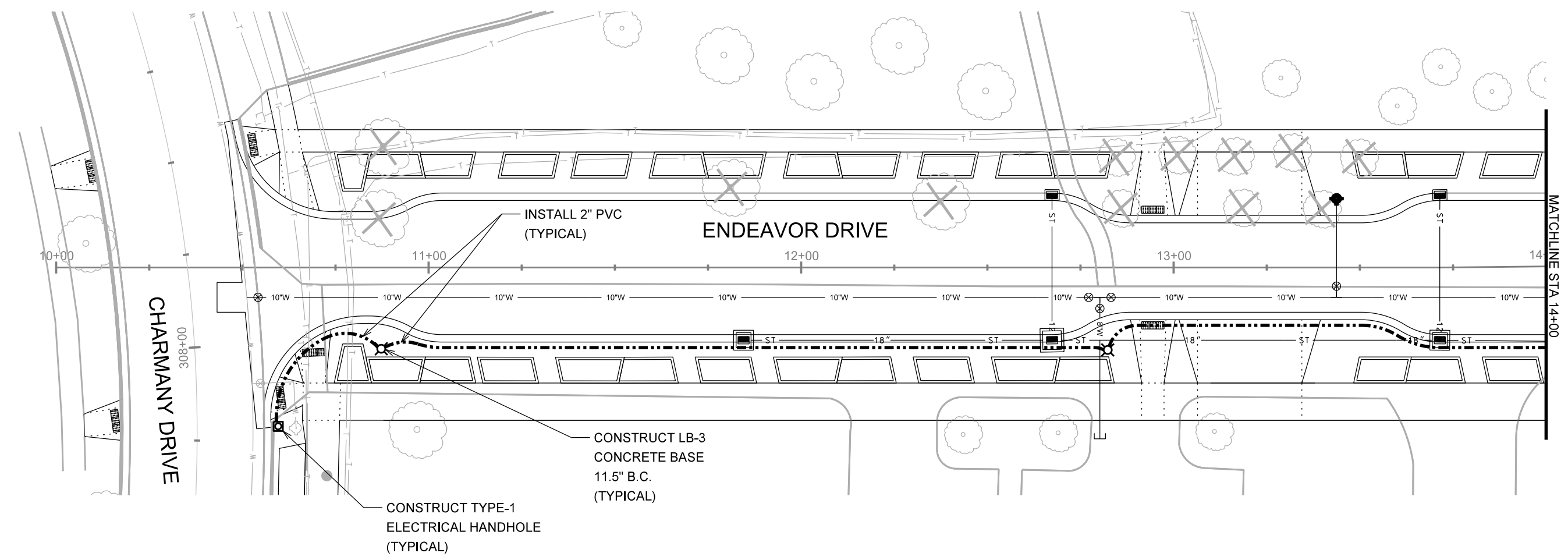
GENERAL ELECTRICAL NOTES:

1. ALL LOCATIONS ARE APPROXIMATE. THE TRAFFIC ENGINEER SHALL APPROVE FINAL LOCATIONS INCLUDING SETBACK IN THE FIELD. AFTER CONTRACTOR SURVEYS STAKING, THE CONTRACTOR SHALL NOTIFY GRETCHEN AVILES PINEIRO (266-4899) CITY TRAFFIC ENGINEERING, AT LEAST 24-HOURS IN ADVANCE OF NEEDING BASE LOCATIONS MARKED.
2. THE CONTRACTOR SHALL DO ALL WORK IN ACCORDANCE WITH CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 2019 EDITION AND ALL ADDENDUMS THERETO. ALL CONDUIT SHALL BE PVC SCHEDULE 80 UNDER PAVEMENT OR SCHEDULE 40 OTHERWISE. PULL WIRE REQUIRED AS PER STANDARD SPECIFICATIONS.
3. THE CONTRACTOR SHALL CALL TROY VANT (266-4767) AT THE TRAFFIC ENGINEERING SHOP AT LEAST 24-HOURS IN ADVANCE OF POURING BASES, BURYING CONDUIT AND CONSTRUCTING ELECTRICAL HANDHOLES TO ARRANGE FOR INSPECTION.
4. ALL EXISTING CONDUITS AND STREET LIGHTS ARE TO REMAIN UNLESS AND UNTIL AUTHORIZED TO REMOVE BY TRAFFIC ENGINEERING. EXISTING CONDUITS CROSSING ENDEAVOR LN, AND EXISTING STREET LIGHT SL 6158 CAN NOT BE REMOVED UNTIL AFTER THE CONTRACTOR INSTALLS THE TWO WOOD TEMPORARY WOOD POLES SHOWN ON THE PLAN AND CITY TE CREWS HAVE INSTALL TEMPORARY OVERHEAD SIGNAL AND LIGHTING CABLES REQUIRED TO MAINTAIN THE EXISTING STREET LIGHT CIRCUIT ON WHITNEY WAY.
5. THE FOLLOWING CITY FURNISHED MATERIALS ARE TO BE PICKED UP AT THE TRAFFIC TRAFFIC OPERTION SHOP, 1120 SAYLE STREET. NOTIFY ED SMITH AT 266-9034 TWENTY FOUR (24) HOURS PRIOR TO PICKING UP THE MATERIAL:

1" X 40" ANCHOR BOLTS: 20

LEGEND

- PLACE STREET LIGHTING PVC CONDUIT, 2" UNLESS NOTED AS OTHER
- PLACE SIGNAL/COMMUNICATION PVC COUNDUIT, 2-3" UNLESS NOTED AS OTHER
- EXISTING STREET LIGHTING CONDUIT
- ☐ CONSTRUCT TYPE-1 ELECTRICAL HANDHOLE
- ⊗ CONSTRUCT LB-3 CONCRETE BASE MODIFIED TO HAVE 11.5 INCH BOLT CIRCLE
- ⊗ EXISTING STREET LIGHT POLE/BASE
- ✚ TEMPORARY 30 FOOT WOOD POLE TO BE INSTALLED AND REMOVED BY CONTRACTOR



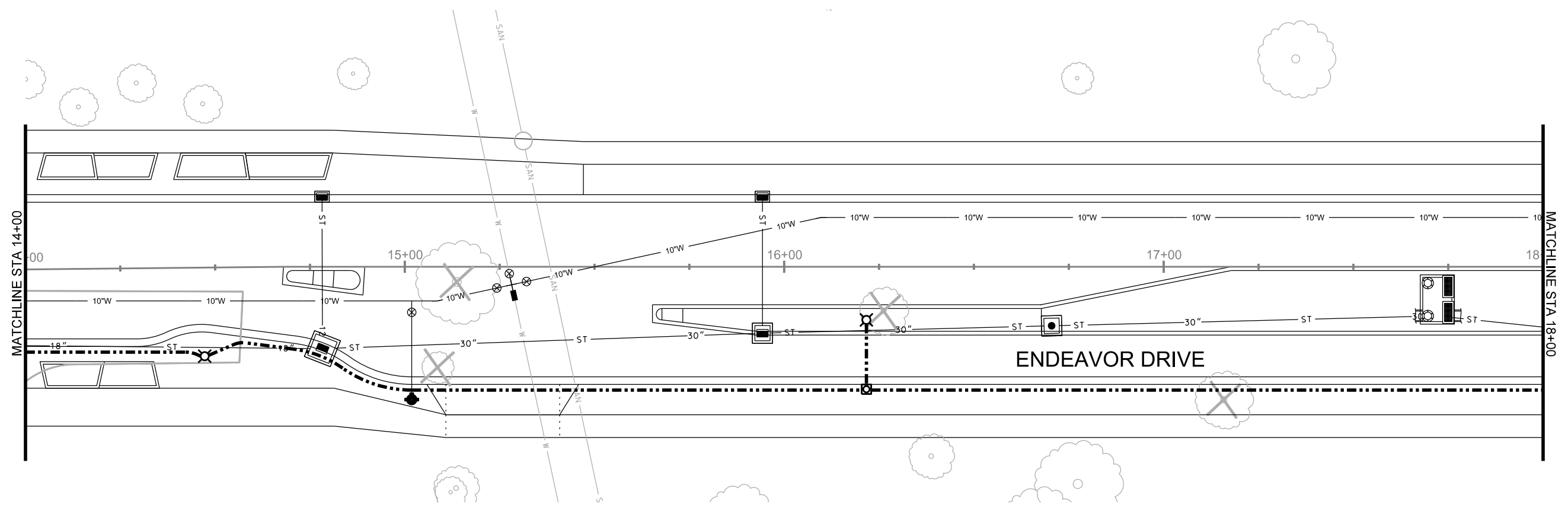
PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

SCALE: 1" = 30'



LEGEND

- PLACE STREET LIGHTING PVC CONDUIT, 2" UNLESS NOTED AS OTHER
- PLACE SIGNAL/COMMUNICATION PVC CONDUIT, 2-3" UNLESS NOTED AS OTHER
- EXISTING STREET LIGHTING CONDUIT
- ☐ CONSTRUCT TYPE-1 ELECTRICAL HANDHOLE
- ⊗ CONSTRUCT LB-3 CONCRETE BASE MODIFIED TO HAVE 11.5 INCH BOLT CIRCLE
- ⊗ EXISTING STREET LIGHT POLE/BASE
- ⊕ TEMPORARY 30 FOOT WOOD POLE TO BE INSTALLED AND REMOVED BY CONTRACTOR

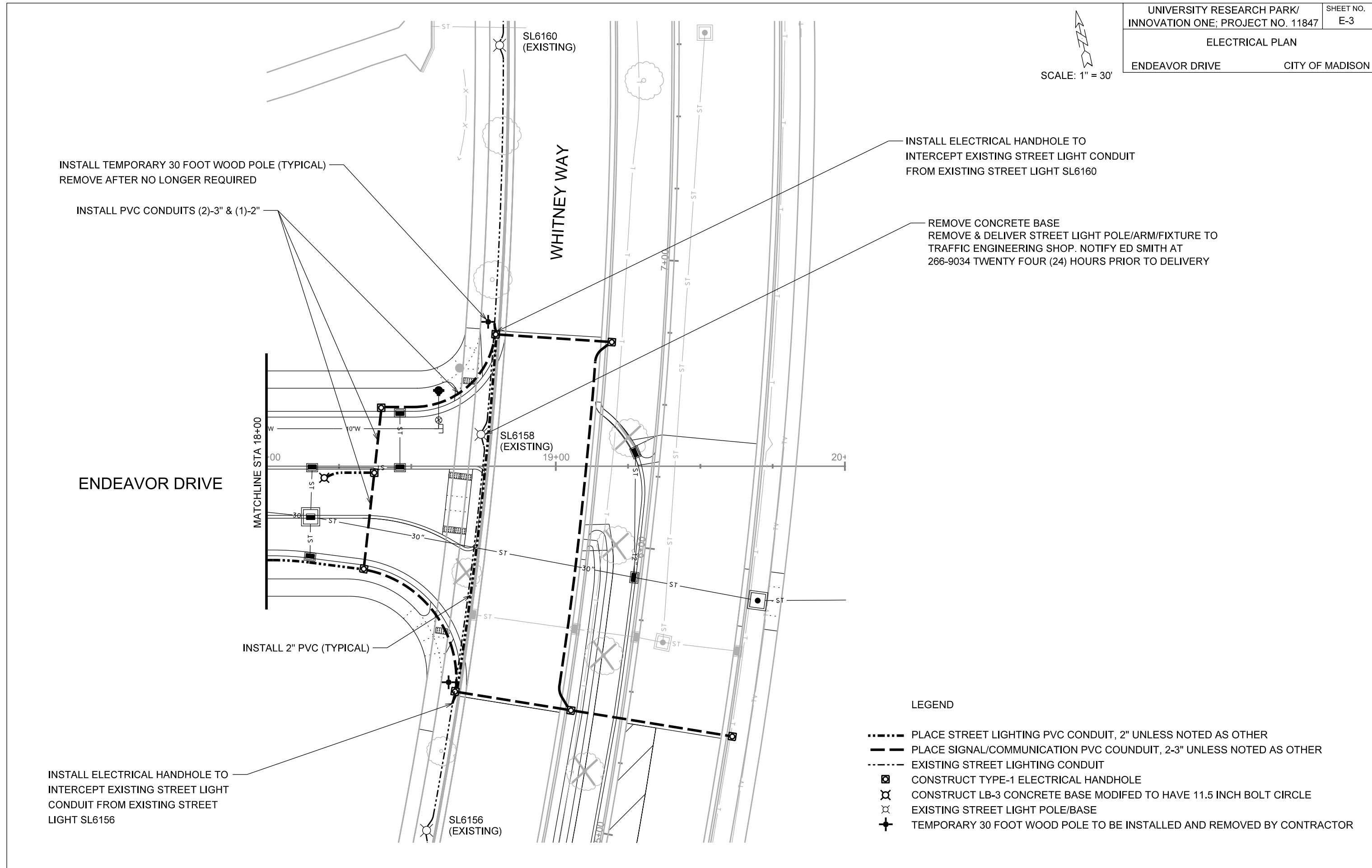
PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

SCALE: 1" = 30'



INSTALL TEMPORARY 30 FOOT WOOD POLE (TYPICAL)
REMOVE AFTER NO LONGER REQUIRED

INSTALL PVC CONDUITS (2)-3" & (1)-2"

INSTALL ELECTRICAL HANDHOLE TO
INTERCEPT EXISTING STREET LIGHT CONDUIT
FROM EXISTING STREET LIGHT SL6160

REMOVE CONCRETE BASE
REMOVE & DELIVER STREET LIGHT POLE/ARM/FIXTURE TO
TRAFFIC ENGINEERING SHOP. NOTIFY ED SMITH AT
266-9034 TWENTY FOUR (24) HOURS PRIOR TO DELIVERY

ENDEAVOR DRIVE

WHITNEY WAY

MATCHLINE STA 18+00

SL6158
(EXISTING)

INSTALL 2" PVC (TYPICAL)

INSTALL ELECTRICAL HANDHOLE TO
INTERCEPT EXISTING STREET LIGHT
CONDUIT FROM EXISTING STREET
LIGHT SL6156

SL6156
(EXISTING)

LEGEND

- PLACE STREET LIGHTING PVC CONDUIT, 2" UNLESS NOTED AS OTHER
- PLACE SIGNAL/COMMUNICATION PVC CONDUIT, 2-3" UNLESS NOTED AS OTHER
- EXISTING STREET LIGHTING CONDUIT
- ☐ CONSTRUCT TYPE-1 ELECTRICAL HANDHOLE
- ⊗ CONSTRUCT LB-3 CONCRETE BASE MODIFIED TO HAVE 11.5 INCH BOLT CIRCLE
- ⊗ EXISTING STREET LIGHT POLE/BASE
- ⊕ TEMPORARY 30 FOOT WOOD POLE TO BE INSTALLED AND REMOVED BY CONTRACTOR

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

LANDSCAPING PLAN

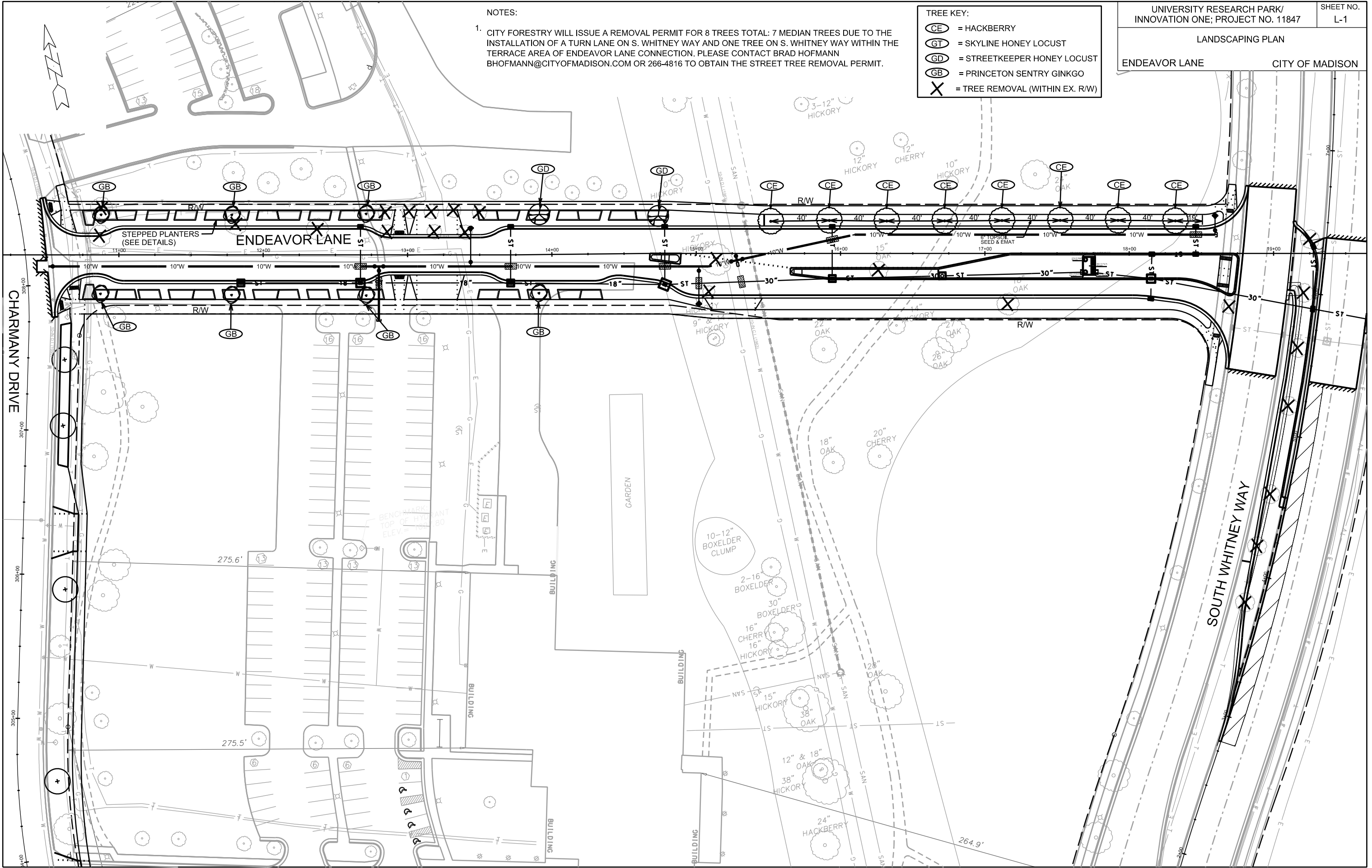
ENDEAVOR LANE CITY OF MADISON

NOTES:

- CITY FORESTRY WILL ISSUE A REMOVAL PERMIT FOR 8 TREES TOTAL: 7 MEDIAN TREES DUE TO THE INSTALLATION OF A TURN LANE ON S. WHITNEY WAY AND ONE TREE ON S. WHITNEY WAY WITHIN THE TERRACE AREA OF ENDEAVOR LANE CONNECTION. PLEASE CONTACT BRAD HOFMANN BHOFFMANN@CITYOFMADISON.COM OR 266-4816 TO OBTAIN THE STREET TREE REMOVAL PERMIT.

TREE KEY:

- ⊖ = HACKBERRY
- ⊖ = SKYLINE HONEY LOCUST
- ⊖ = STREETKEEPER HONEY LOCUST
- ⊖ = PRINCETON SENTRY GINKGO
- X = TREE REMOVAL (WITHIN EX. RW)

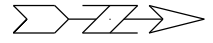


PLOT SCALE: _____

PLOT NAME: _____

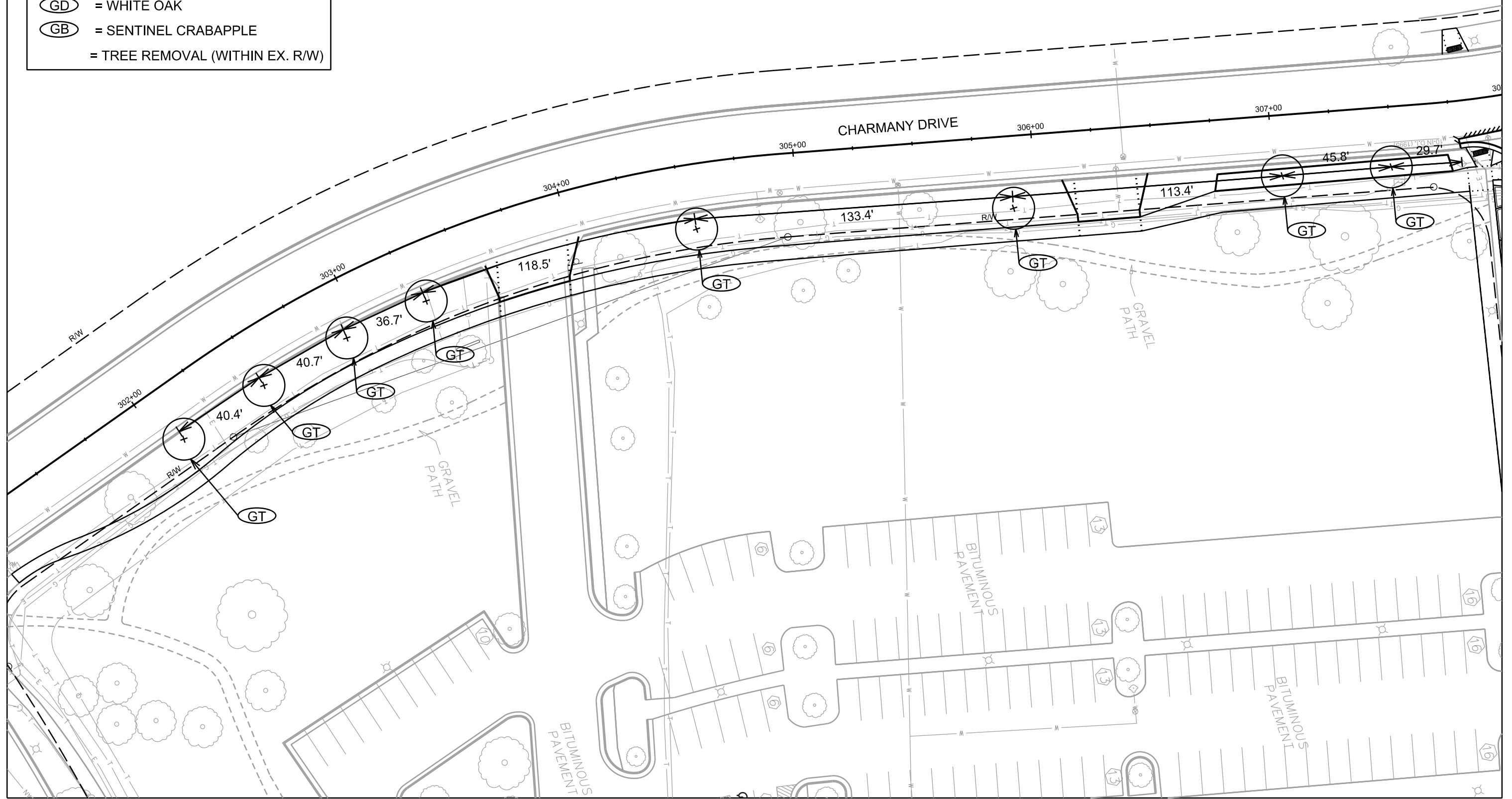
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



- TREE KEY:**
- (CE) = HACKBERRY
 - (GT) = SKYLINE HONEY LOCUST
 - (GD) = WHITE OAK
 - (GB) = SENTINEL CRABAPPLE
 - (X) = TREE REMOVAL (WITHIN EX. R/W)

PLOT SCALE: _____
 PLOT NAME: _____
 REV. DATE: _____
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION





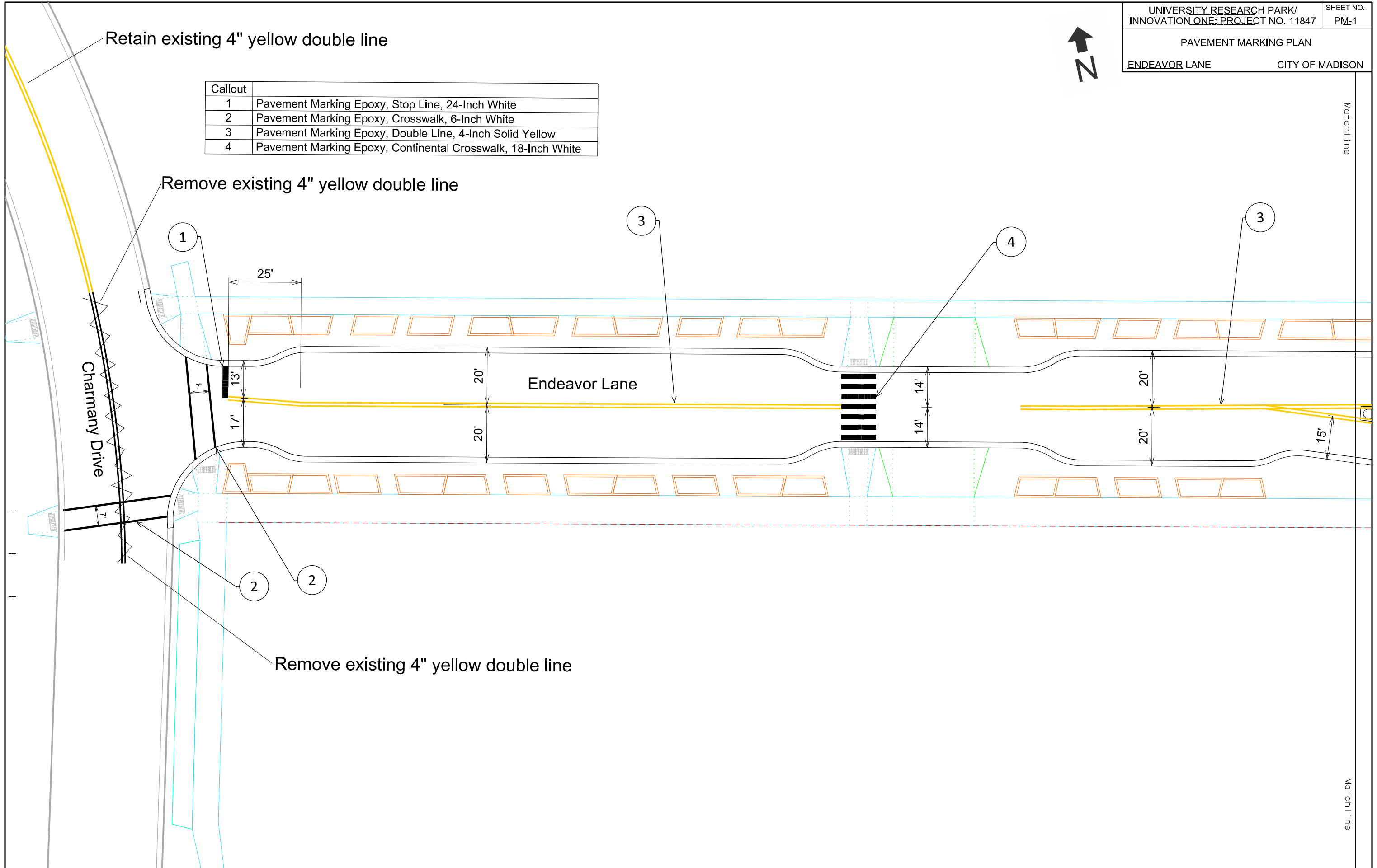
Callout	Description
1	Pavement Marking Epoxy, Stop Line, 24-Inch White
2	Pavement Marking Epoxy, Crosswalk, 6-Inch White
3	Pavement Marking Epoxy, Double Line, 4-Inch Solid Yellow
4	Pavement Marking Epoxy, Continental Crosswalk, 18-Inch White

PLOT SCALE: _____

PLOT NAME: _____

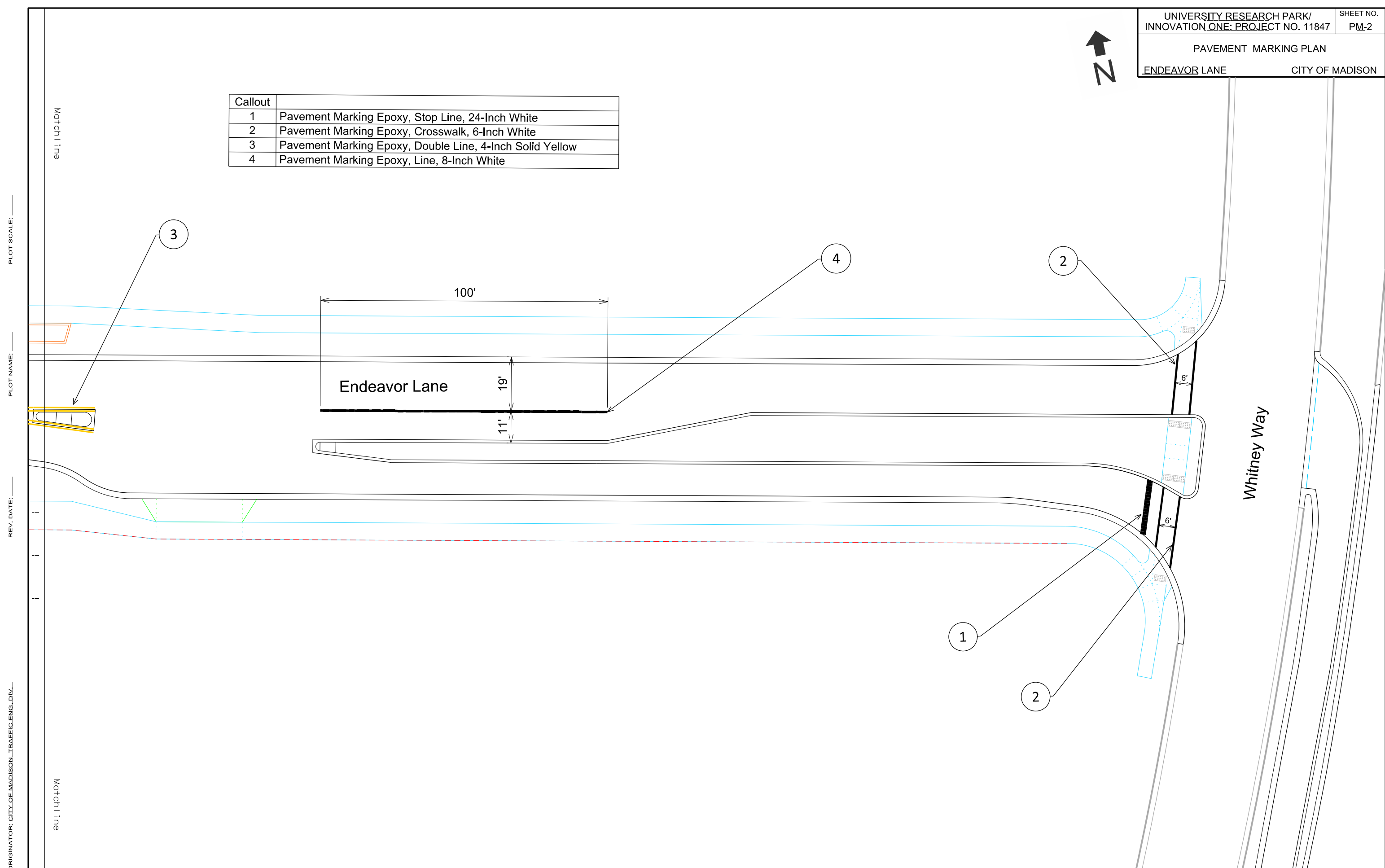
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.





Callout	Description
1	Pavement Marking Epoxy, Stop Line, 24-Inch White
2	Pavement Marking Epoxy, Crosswalk, 6-Inch White
3	Pavement Marking Epoxy, Double Line, 4-Inch Solid Yellow
4	Pavement Marking Epoxy, Line, 8-Inch White



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.