

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

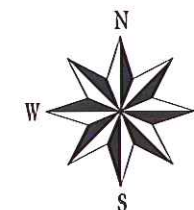
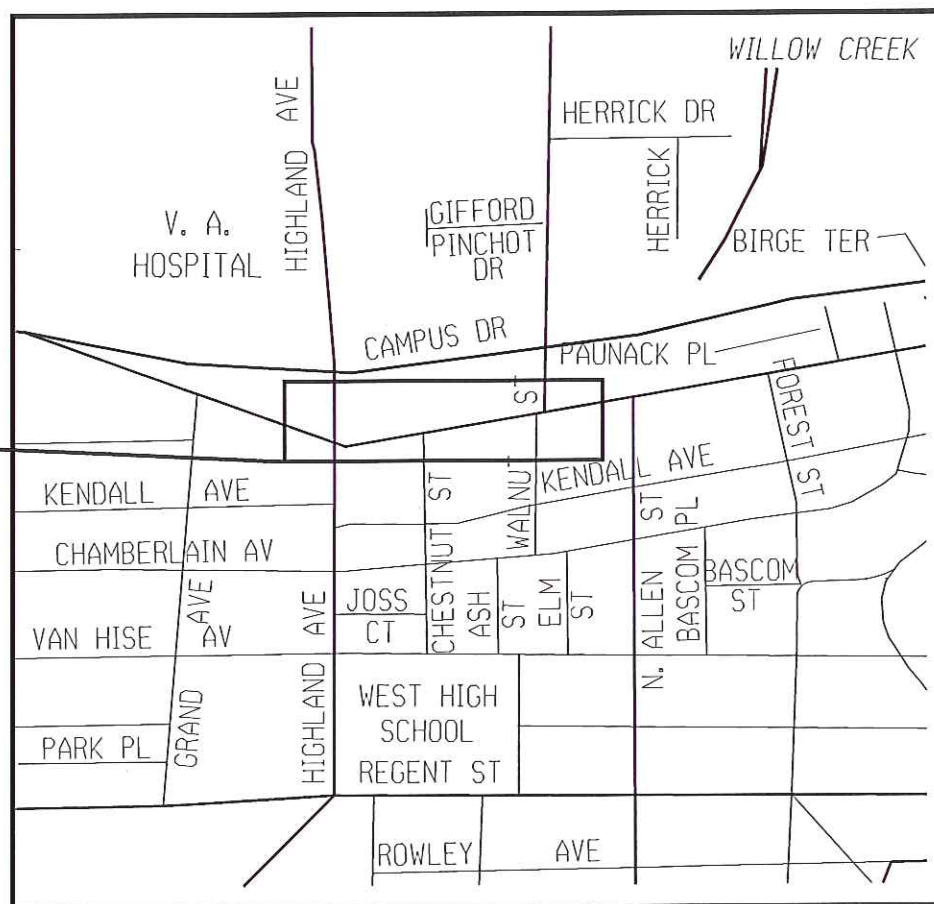
UNIVERSITY RELIEF STORM SEWER PHASE 4

CITY PROJECT NO. 53W1399
CONTRACT NO. 7009

INDEX OF SHEETS

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**PROJECT
LOCATION**



PUBLIC IMPROVEMENT PROJECT APPROVED
OCTOBER 16, 2012
BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

[Signature]
City Engineer
1/31/13
Date

STREET DESIGN
APPROVED BY:

WISCONSIN PROFESSIONAL ENGINEER
STEVEN M. SONNTAG
E-38891
MADISON WI
1-29-13

ELECTRICAL DESIGN
APPROVED BY:

WISCONSIN PROFESSIONAL ENGINEER
DANIEL C. DETTMANN
E - 18665
MADISON, WI
1-29-13

STORM DESIGN
APPROVED BY:

WISCONSIN PROFESSIONAL ENGINEER
GREGORY T. PILES
E-30686
MADISON WI
1-29-13

PAVEMENT MARKING PLAN
APPROVED BY:

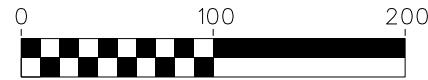
WISCONSIN PROFESSIONAL ENGINEER
YANG TAO
E-41428
MADISON WI
1/29/13

TRAFFIC CONTROL PLAN
APPROVED BY:

WISCONSIN PROFESSIONAL ENGINEER
YANG TAO
E-41428
MADISON WI
1/29/13

PROJECT OVERVIEW

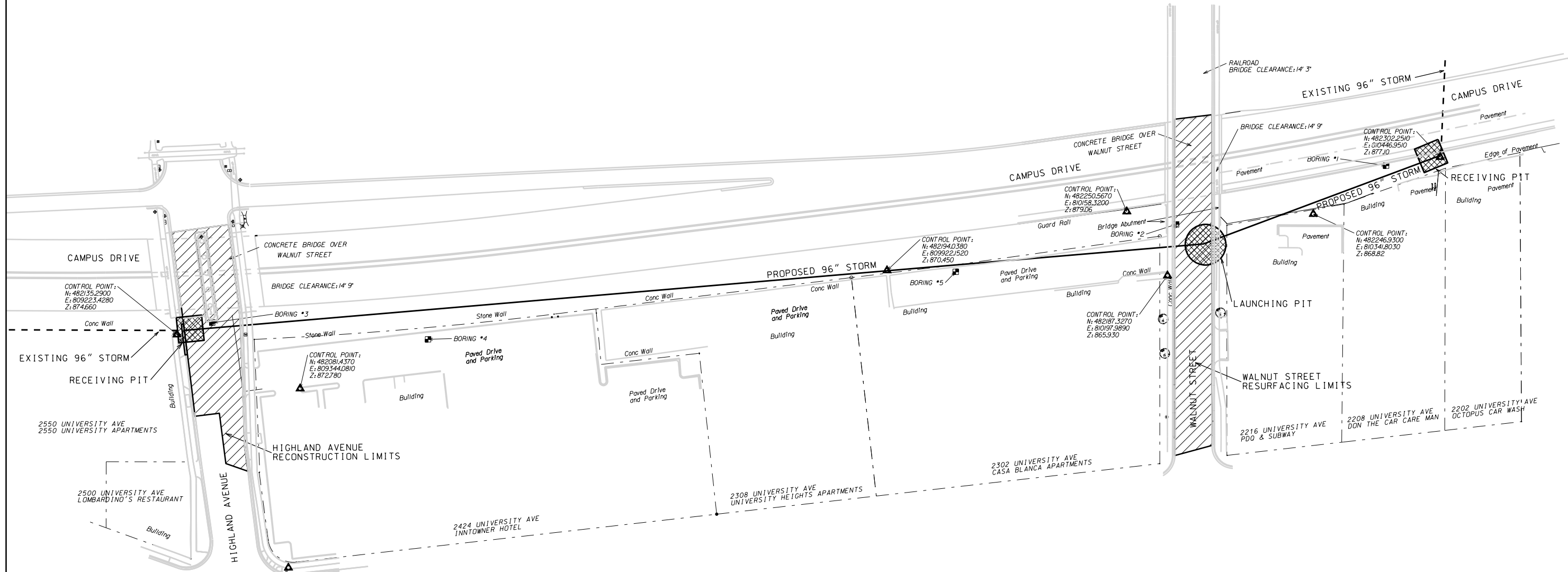
CITY OF MADISON



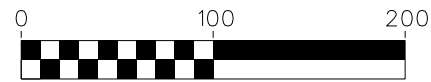
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PLOT NAME: _____

REV. DATE: _____



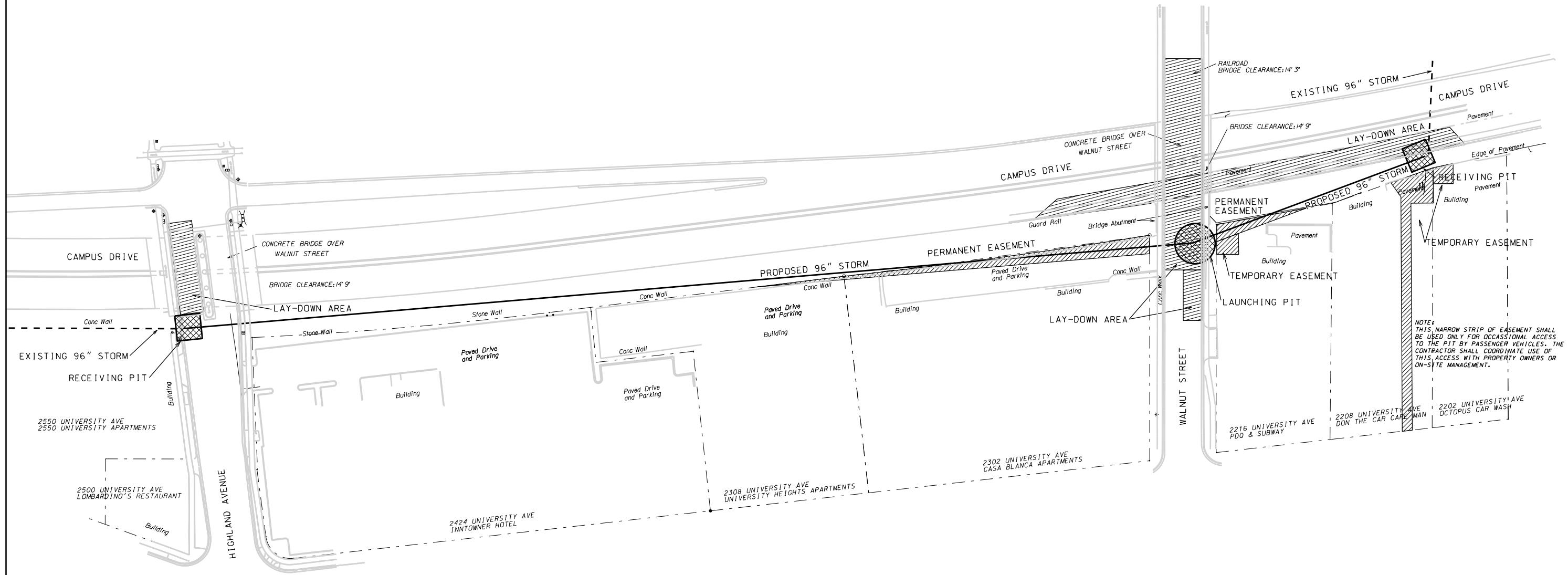
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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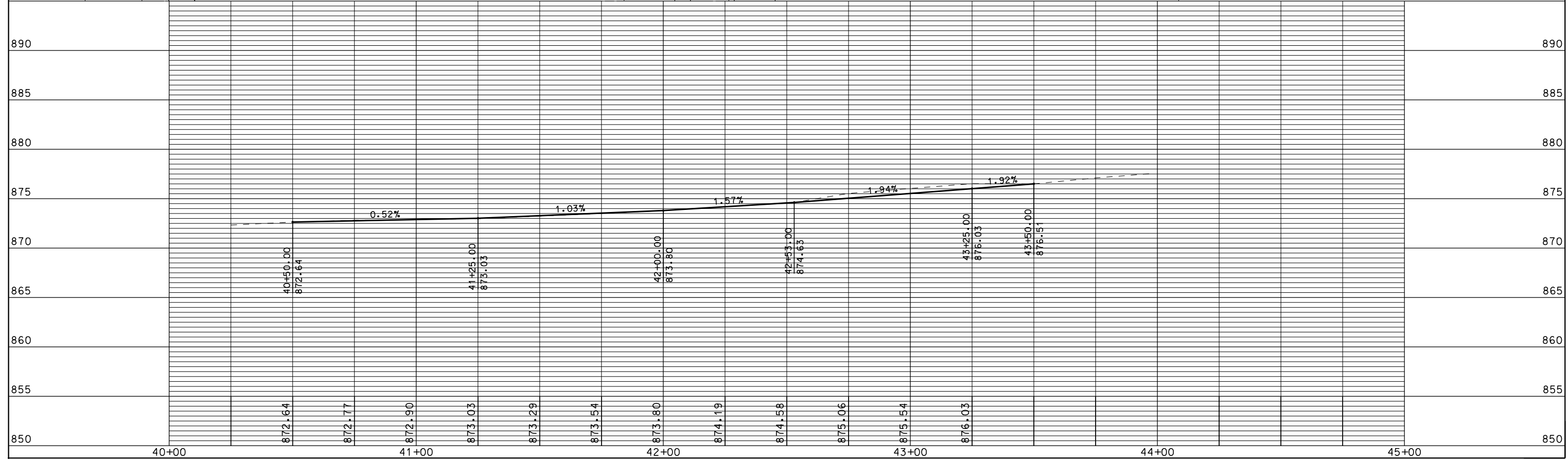
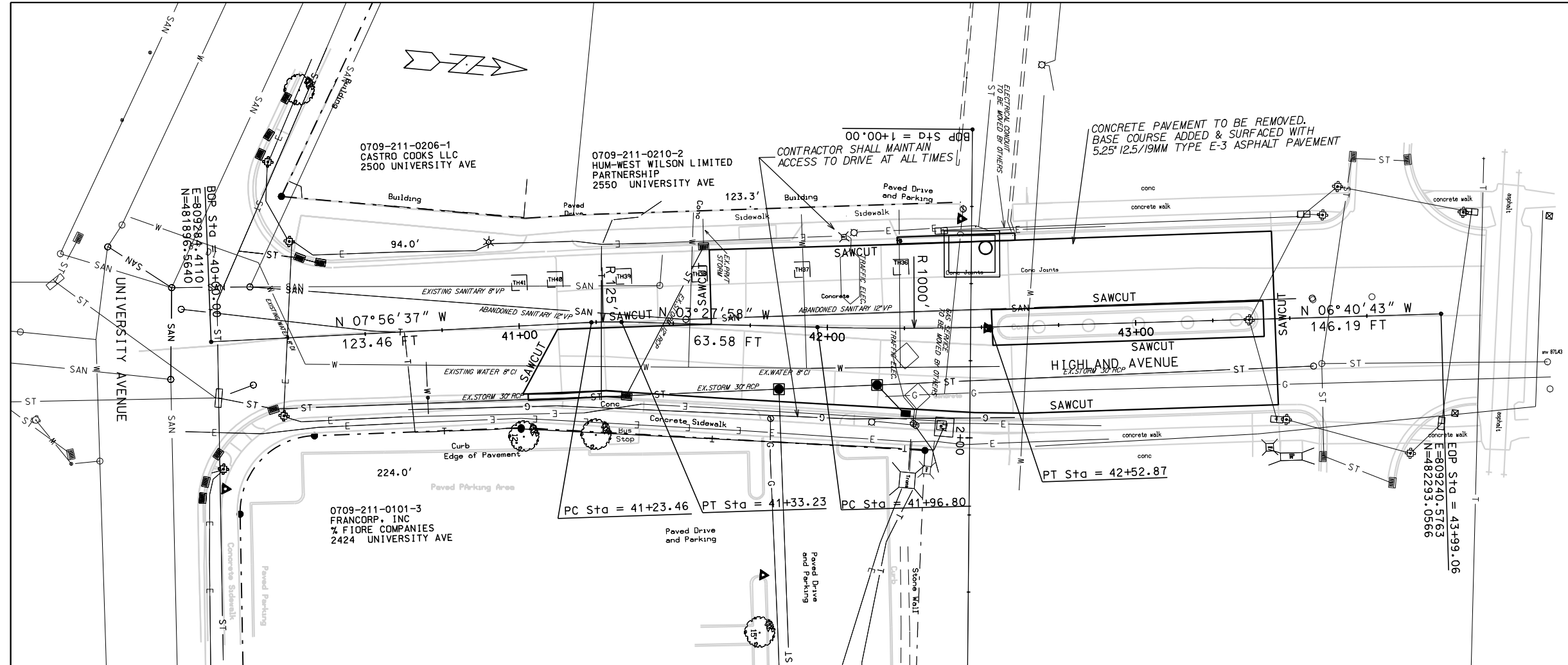
PLOT NAME: _____

REV. DATE: _____



NOTE:
THIS NARROW STRIP OF EASEMENT SHALL
BE USED ONLY FOR OCCASIONAL ACCESS
TO THE PIT BY PASSENGER VEHICLES. THE
CONTRACTOR SHALL COORDINATE USE OF
THIS ACCESS WITH PROPERTY OWNERS OR
ON-SITE MANAGEMENT.

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

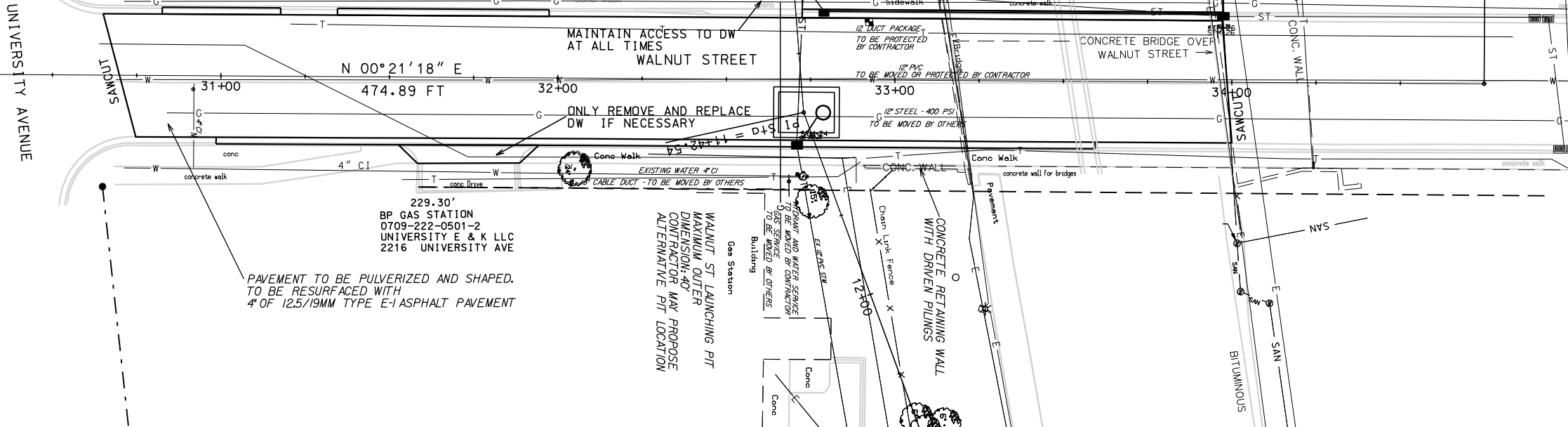


PLOT SCALE:
PLOT NAME:
REV. DATE:

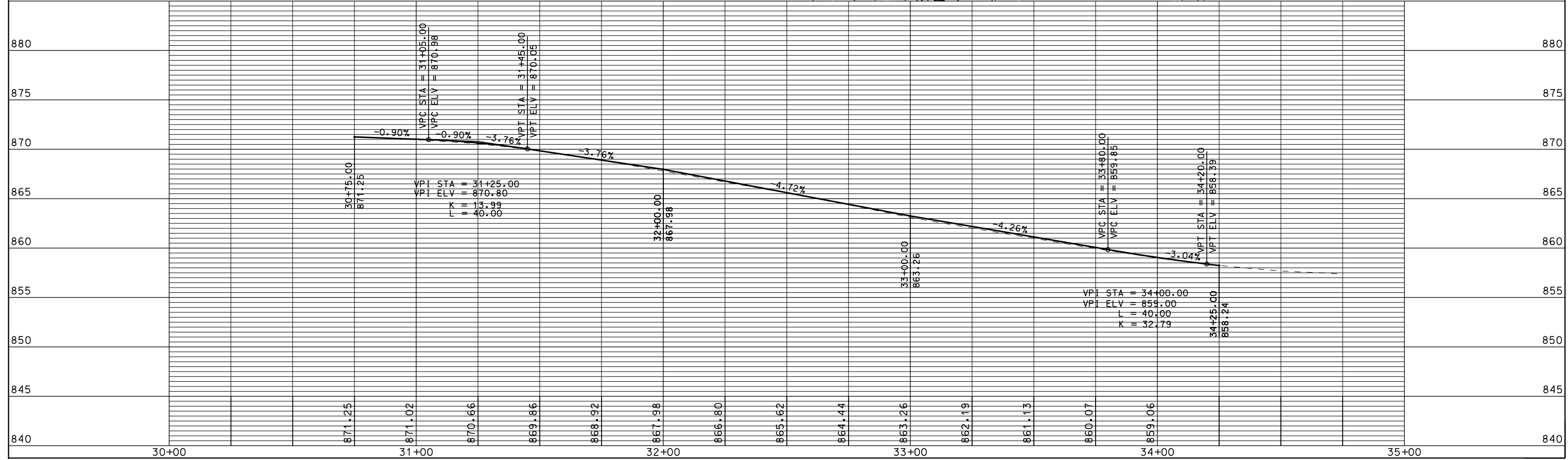
ORIGINATOR: CITY_OF_MADISON_STREETS_DIVISION

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 N=481945.2502

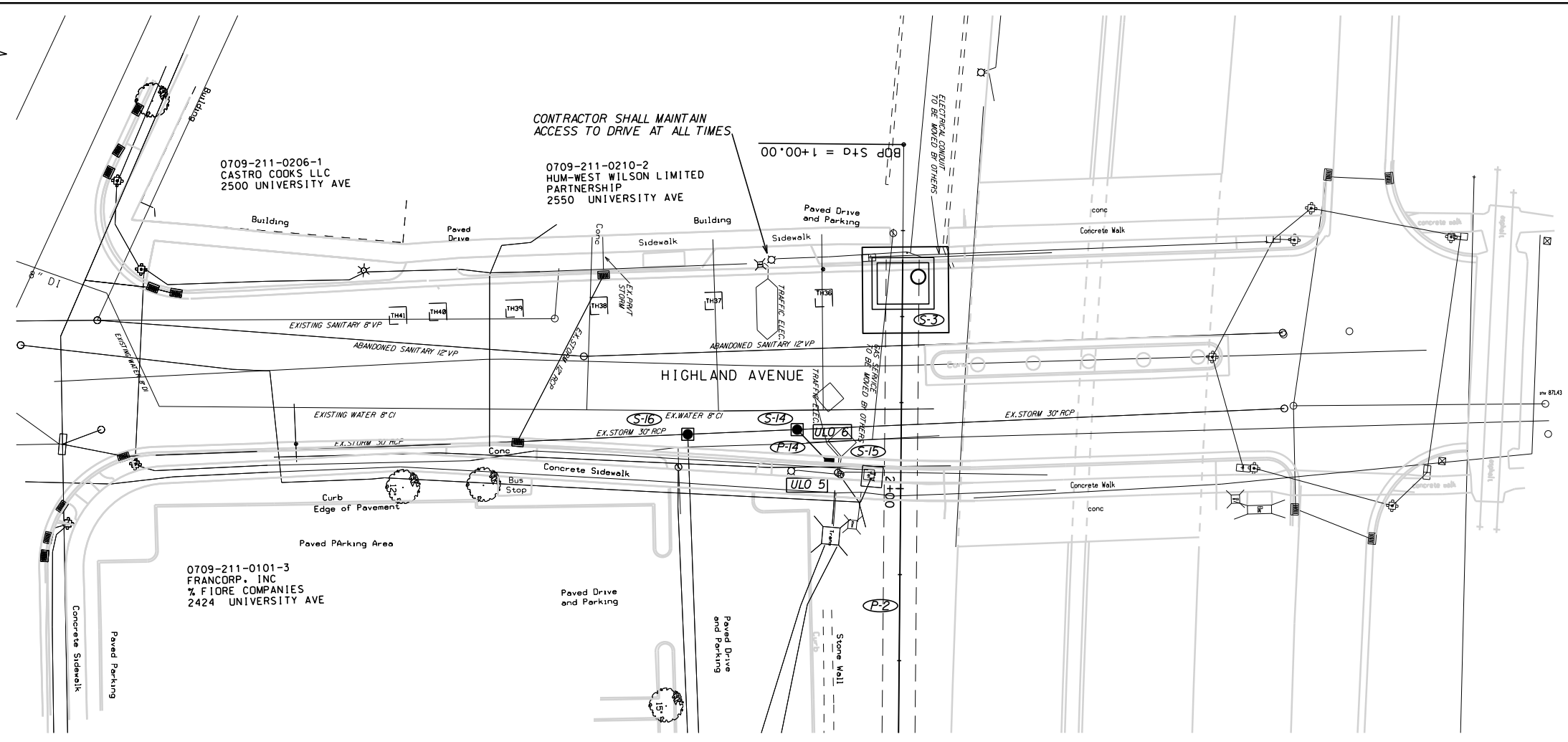
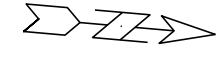
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PLOT SCALE:
 PLOT NAME:
 REV. DATE:



ORIGINATOR: CITY OF MADISON, STREETS DIVISION



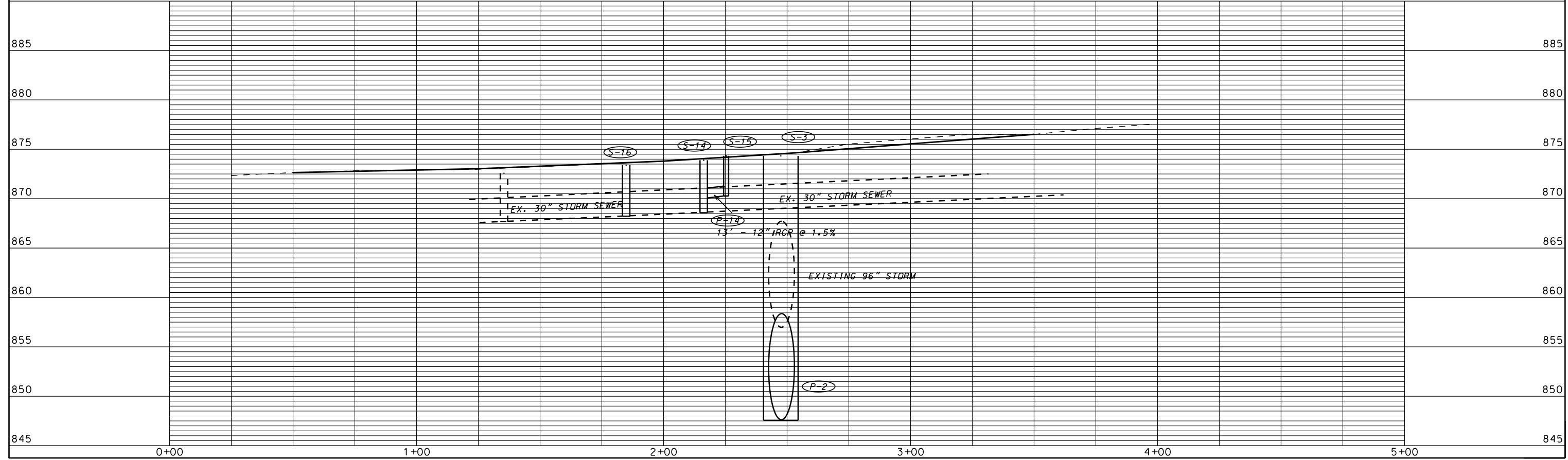
CONTRACTOR SHALL MAINTAIN ACCESS TO DRIVE AT ALL TIMES

00+00 = D+S

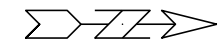
PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____



ORIGINATOR: CITY OF MADISON, STREETS DIVISION



UNIVERSITY AVENUE

0709-211-0104-7
CASA BLANCA LLC
% GOLDFLEAF DEV. I SNOW
2302 UNIVERSITY AVE

CONTRACTOR SHALL
MAINTAIN ACCESS
TO DRIVE AT ALL TIMES

223.86'

0709-222-0501-2
UNIVERSITY E & K LLC
2216 UNIVERSITY AVE

CONTRACTOR SHALL
MAINTAIN ACCESS
TO DRIVE AT ALL TIMES

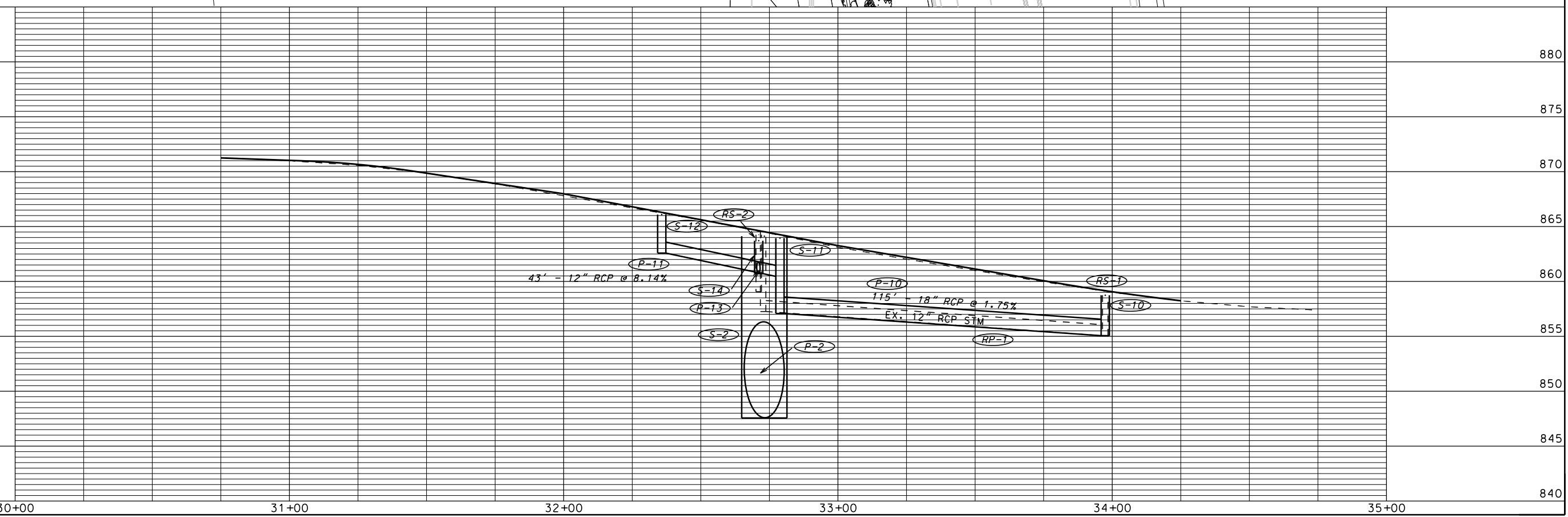
229.30'

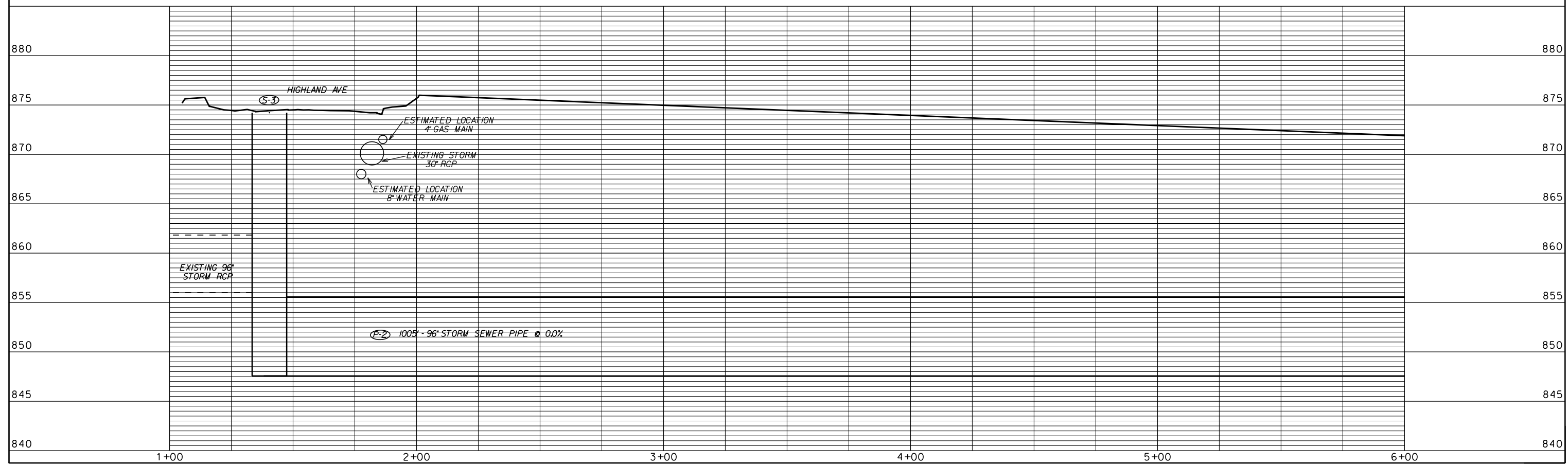
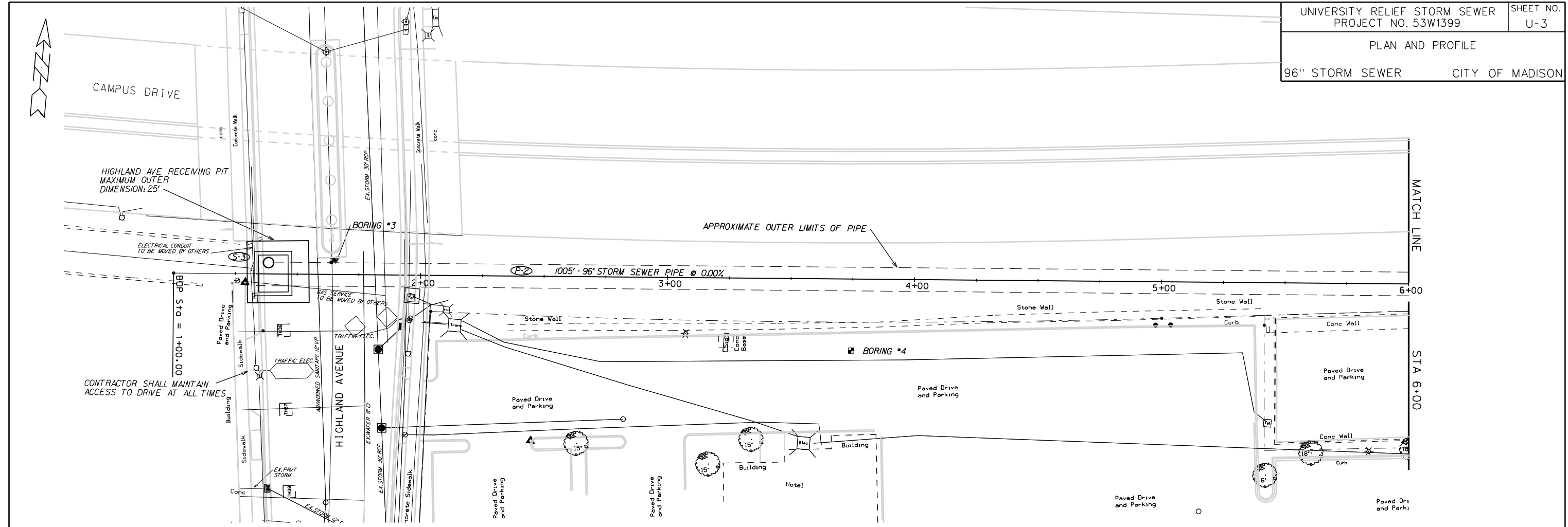
WALNUT STREET

PLOT SCALE: _____

PLOT NAME: _____

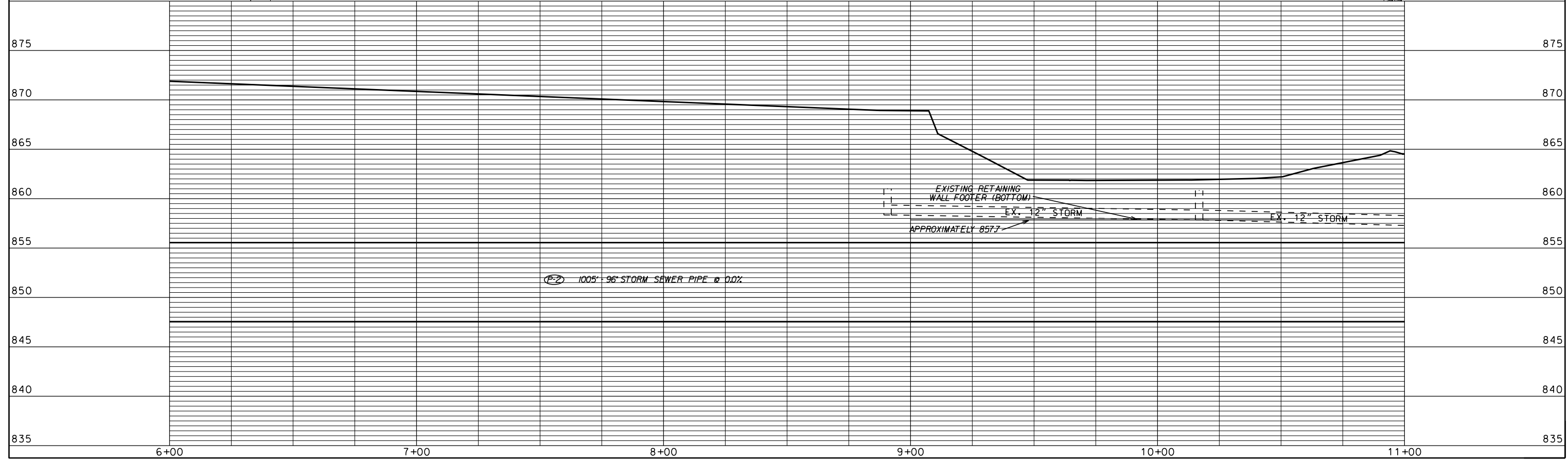
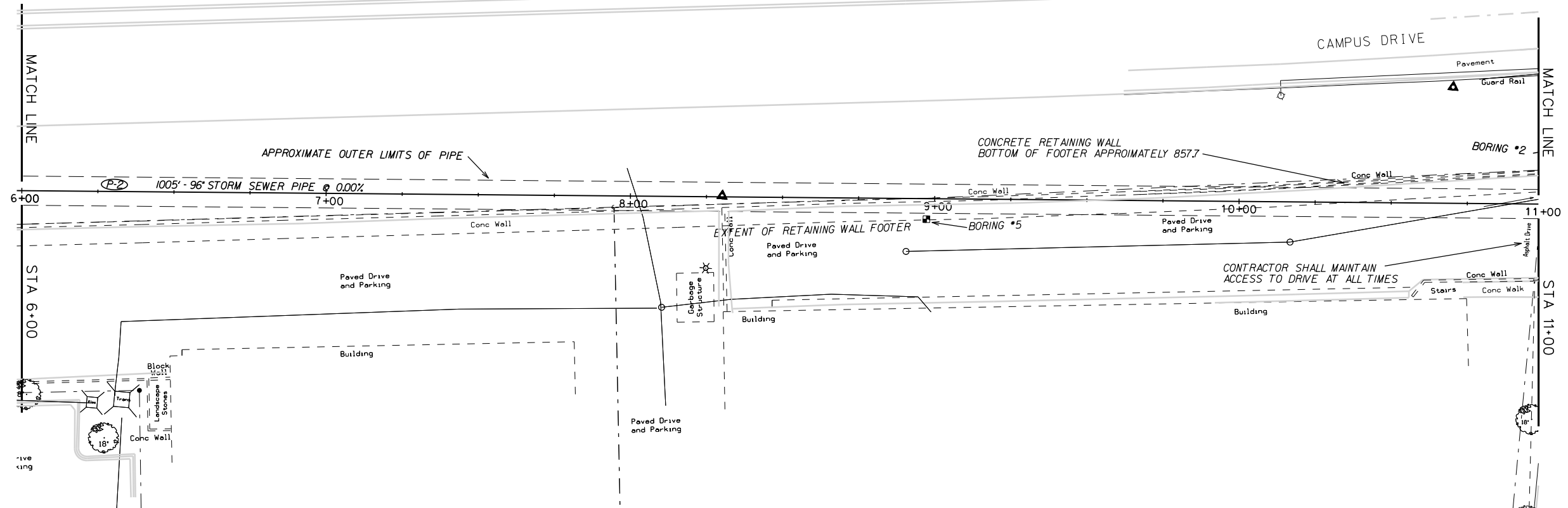
REV. DATE: _____





ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLOT NAME: _____ PLOT SCALE: _____ REV. DATE: _____

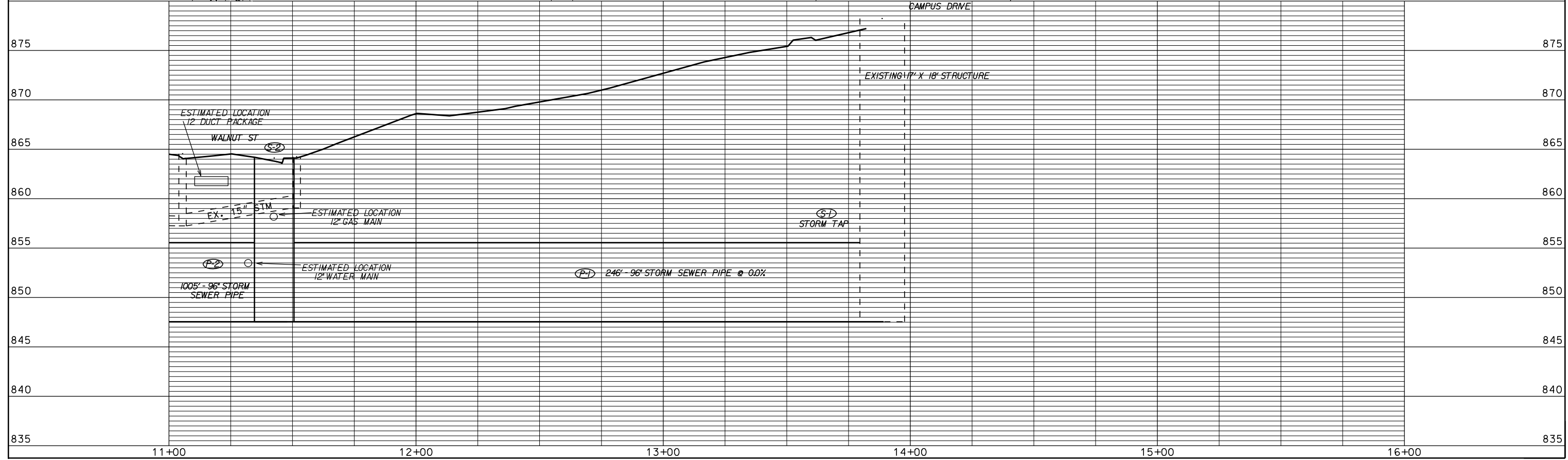
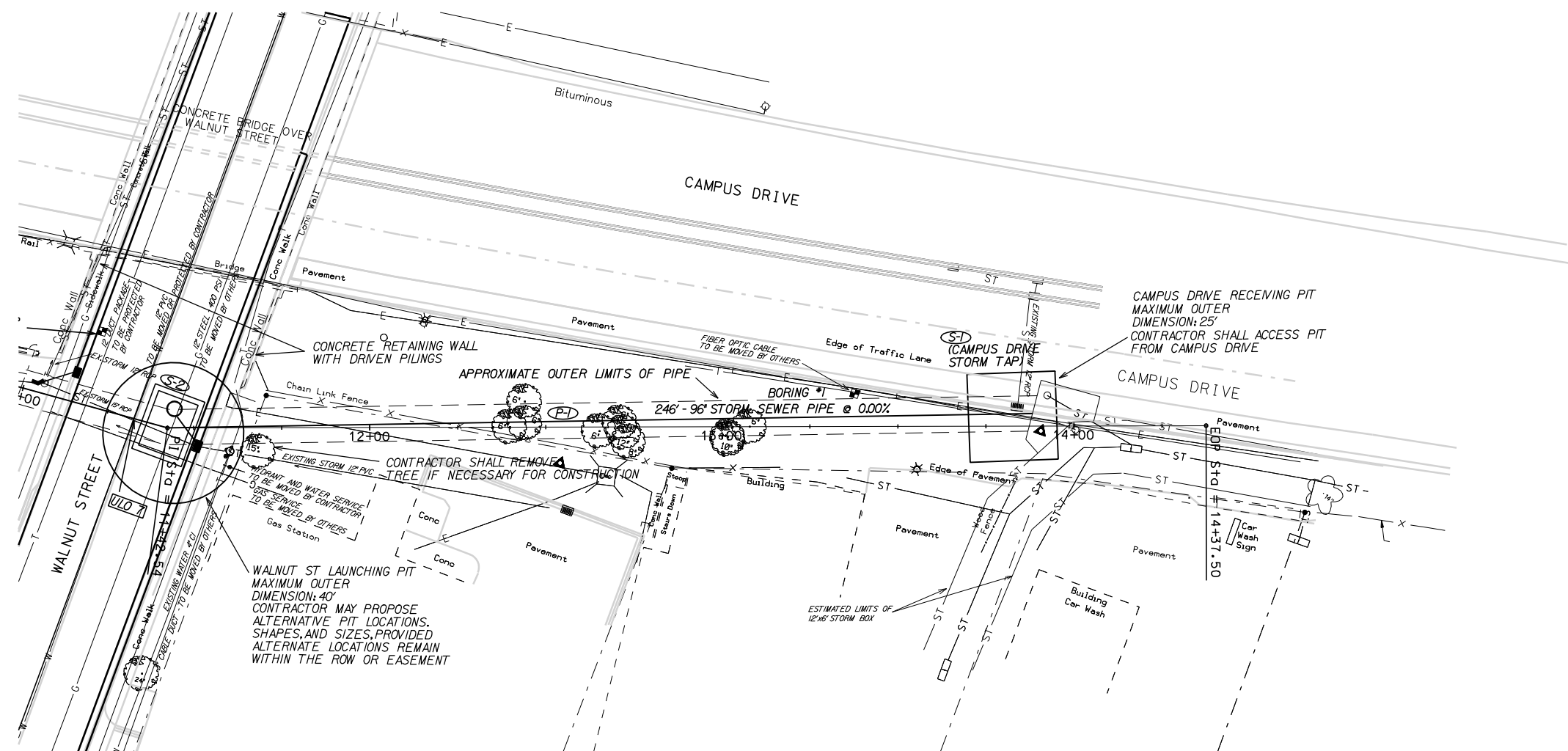


ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLOT SCALE: _____ PLOT NAME: _____ REV. DATE: _____

PLAN AND PROFILE

96" STORM SEWER CITY OF MADISON
REV. 2/14/2013 SCS



ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLOT SCALE: 1" = 40'

PLOT NAME: 53WI399

REV. DATE: 2/14/2013

STORM SEWER SCHEDULE

ALIGNMENT CODES:

'WS' = WALNUT STREET
'HA' = HIGHLAND AVENUE

* REV. 2/14/2013 SCS

UNIVERSITY RELIEF STORM SEWER
PROJECT NO. 53W1399

SHEET NO.
U-6

STORM SEWER SCHEDULE
CITY OF MADISON

STRUCTURES

| STRUC. NO. | STATION | LOCATION (OFFSET) | TYPE | TOP OF CASTING | E.I. | DEPTH | NOTES |
|------------|--------------|-------------------|---------------------|----------------|--------|-------|---------------------|
| S-1 | 13+88.68 | LT-4.58 | STORM TAP | 878.24 | 847.56 | 30.68 | BID ITEM 90037 |
| S-2 | 11+42.54 | CL | 12'X16.5' STRUCTURE | 864.12 | 847.56 | 16.56 | FP, BID ITEM 90035 |
| S-3 | 1+40.43 | CL | 12'X14' STRUCTURE | 874.33 | 847.56 | 26.77 | FP, BID ITEM 90036 |
| S-10 | 33'WS'+97.46 | LT-20.09 | H INLET | 858.74 | 855.06 | 3.68 | FP, W/R-3067-7004-V |
| S-11 | 32'WS'+78.86 | LT-20.32 | H INLET | 863.96 | 857.08 | 6.88 | FP, W/R-3067-7004-V |
| S-12 | 32'WS'+72.14 | LT-29.10 | FIELD BEND | -- | 857.32 | -- | |
| S-13 | 32'WS'+71.11 | RT-20.14 | H INLET | 863.71 | 860.71 | 3.00 | W/R-3067-7004-V |
| S-14 | 42'HA'+16.26 | RT-18.40 | 3X3 SAS | 873.89 | 868.57 | 5.32 | W/R-1550-0054 |
| S-15 | 42'HA'+25.34 | RT-28.12 | H INLET | 874.34 | 870.27 | 4.07 | W/R-3067-7004-V |
| S-16 | 41'HA'+84.86 | RT-20.42 | 3X3 SAS | 873.39 | 868.22 | 5.17 | W/R-1550-0054 |

STRUCTURE REMOVALS

| STRUC. | STATION | LOCATION | TYPE | DEPTH |
|--------|--------------|----------|---------|-------|
| RS-10 | 33'WS'+97.46 | LT-20.09 | INLET | 3.68 |
| RS-11 | 32'WS'+35.76 | LT-20.31 | 3X3 SAS | 7.32 |
| RS-12 | 32'WS'+72.14 | LT-20.14 | INLET | 5.73 |

UTILITY LINE OPENINGS (ULOs)

| NAME | STATION | LOCATION | TYPE |
|-------|--------------|----------|-------------------|
| ULO 1 | 33'WS'+97.25 | LT-23.81 | GAS |
| ULO 2 | 32'WS'+77.34 | LT-22.72 | GAS |
| ULO 3 | 32'WS'+73.92 | LT-14.06 | AT&T DUCT PACKAGE |
| ULO 4 | 32'WS'+79.50 | RT-23.27 | ELEC & TELECOM |
| ULO 5 | 42'HA'+25.34 | RT-28.12 | GAS |
| ULO 6 | 42'HA'+19.78 | RT-22.24 | GAS & ELECTRIC |
| ULO 7 | 11+32.88 | CL | WATER |

PIPES

| PIPE NO. | FROM (DNSTM) | TO (UPSTM) | LGTH (FT) | DISCH. E.I. | INLET E.I. | SLOPE (%) | PIPE SIZE | TYPE | NOTES |
|----------|--------------|------------|-----------|-------------|------------|-----------|-----------|------|-------------------|
| P-1 | S-1 | S-2 | 246.12 | 847.56 | 847.56 | 0.00% | 96" | | SEE SECTION 510.4 |
| P-2 | S-2 | S-3 | 1005.61 | 847.56 | 847.56 | 0.00% | 96" | | SEE SECTION 510.4 |
| P-10 | S-10 | S-11 | 115.46 | 855.06 | 857.08 | 1.75% | 18" | RCP | |
| P-11 | S-11 | S-12 | 11.06 | 857.32 | 857.36 | 0.36% | 12" | RCP | NCM |
| P-12 | S-2 | S-14 | 10.70 | 860.60 | 860.71 | 1.03% | 12" | RCP | NCM |
| P-14 | S-15 | S-16 | 13.45 | 870.07 | 870.27 | 1.49% | 12" | RCP | |

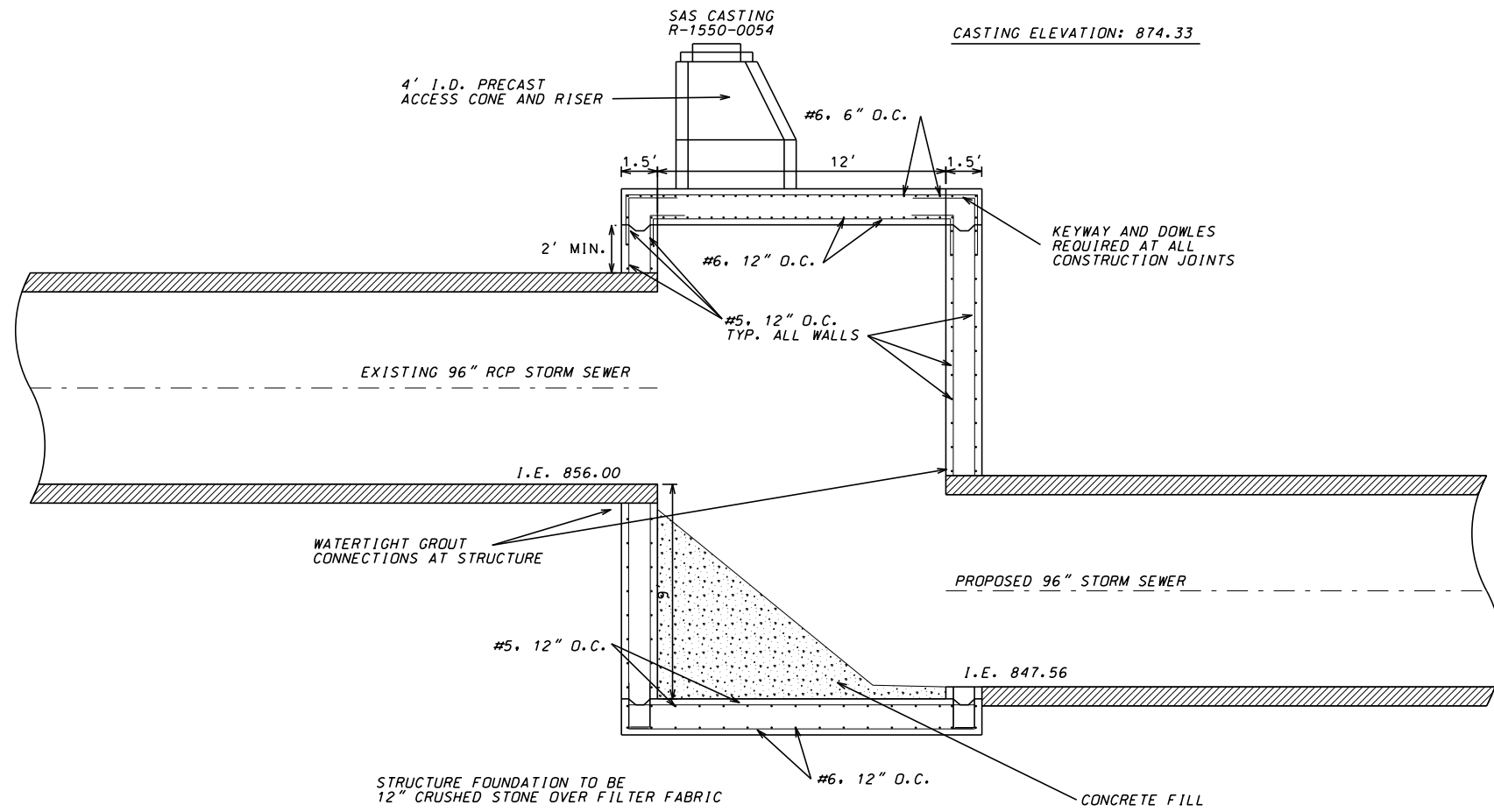
PIPE REMOVALS

| PIPE | FROM | TO | LGTH | PAID |
|-------|-------|-------|-------|------|
| RP-10 | RS-10 | S-11 | 118.6 | NO |
| RP-11 | RS-11 | RS-12 | 49.42 | YES |

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
- 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 SALLY SWENSON OF CITY ENGINEERING AT (608) 266-4862 FOR PRECAST APPROVALS, OR FAX SHOP DRAWINGS TO (608)264-9275.

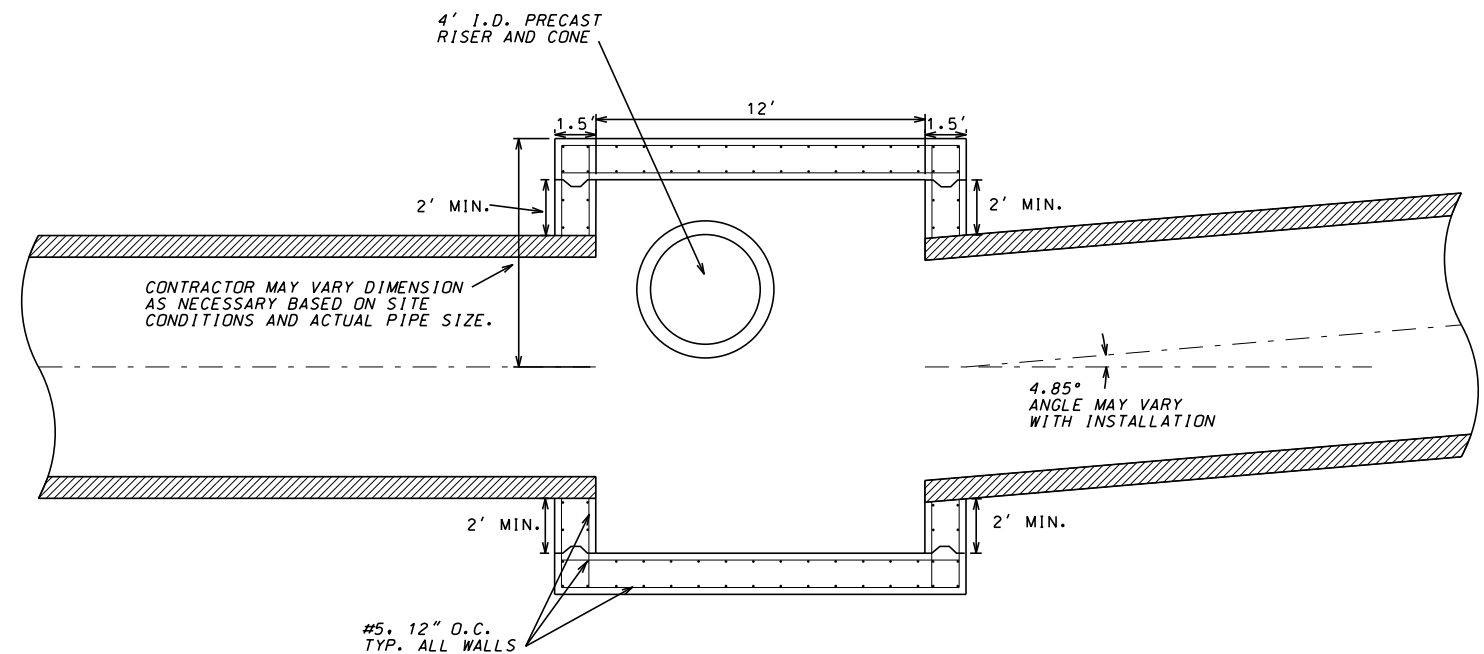
HIGHLAND STRUCTURE: CROSS SECTION



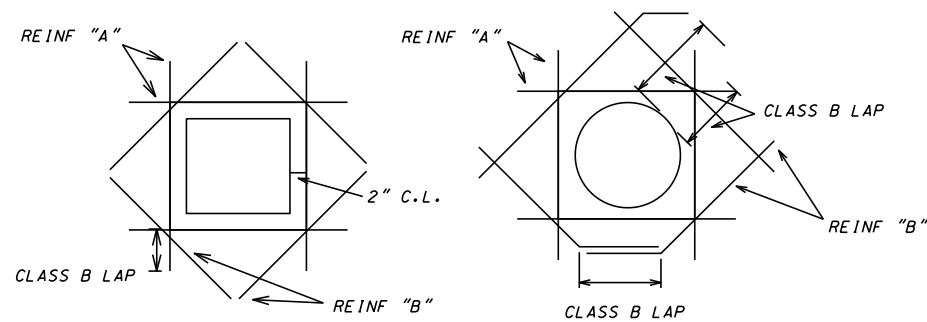
NOTES:

- 1) THE CONTRACTOR SHALL PROTECT ALL UTILITIES AND STRUCTURES WITHIN THE WORK AREA.
- 2) THE CONTRACTOR SHALL PROVIDE ADDITIONAL REINFORCING AROUND OPENINGS IN WALLS AND SLABS PER DETAIL ON SHEET U-7, AND ADDITIONAL REINFORCEMENT AROUND PIPE PENETRATIONS IN WALLS.
- 3) REINFORCING SHALL BE BENT AND DETAILED AS SHOWN IN THE PLAN SET. THE CONTRACTOR SHALL PROVIDE THE MINIMUM LAPS AS FOLLOWS:
 WALL HORIZONTAL, #5 BAR: 1'9"
 WALL VERTICAL, #5 BAR: 2'-2"
 BEAM VERTICAL, #5 BAR: 1'9"
- 4) ALL CONSTRUCTION JOINTS SHALL INCLUDE A SURFACED, BEVELED 1 1/2" X 5 1/2" KEYWAY AND 3/4" X 1" BENTONITE WATERSTOP CENTERED IN THE JOINT.
- 5) THE CONTRACTOR SHALL COORDINATE THE RISER SECTION OPENING IN THE STRUCTURE ROOF WITH THE RISER MANUFACTURER. THIS CONNECTION SHALL BE WATERTIGHT.

HIGHLAND STRUCTURE: PLAN VIEW



REINFORCEMENT AT CONCRETE OPENINGS (GENERAL)

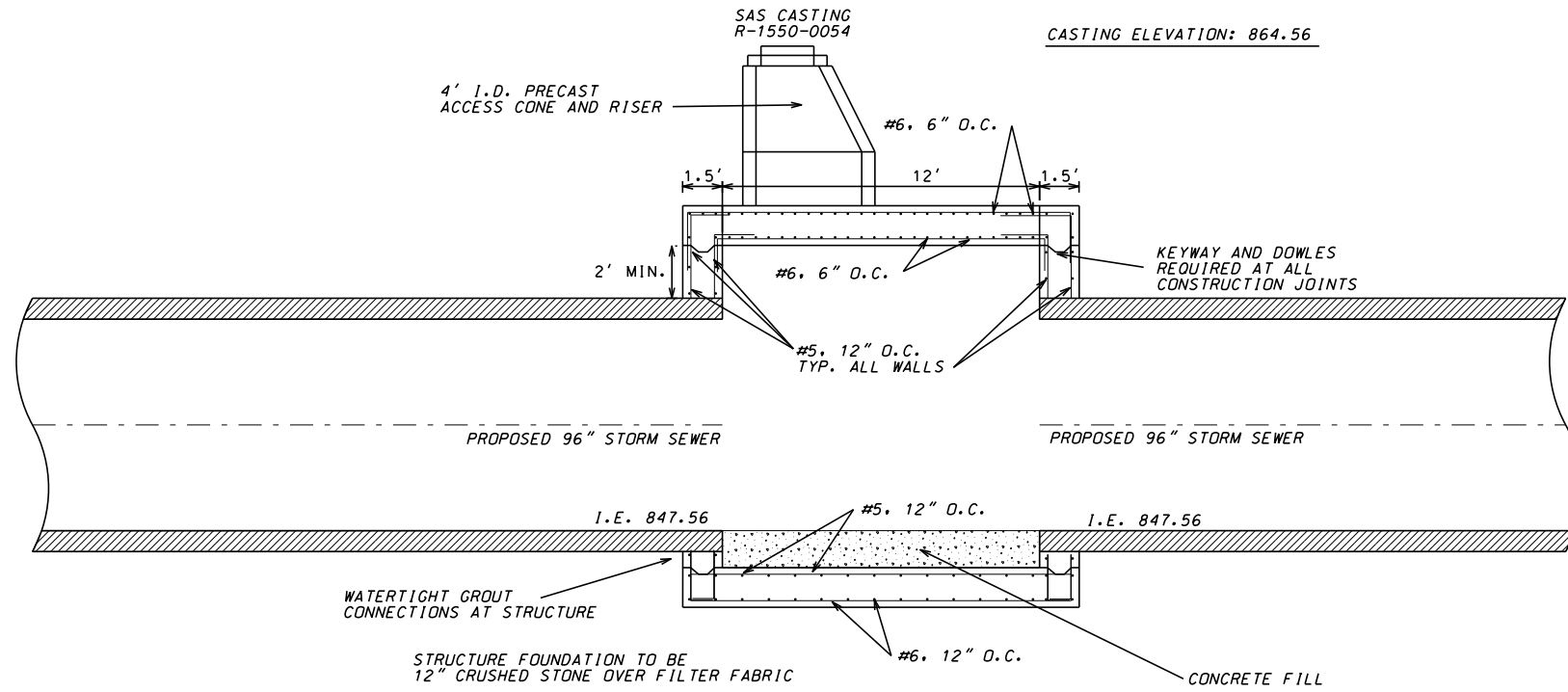


REINFORCEMENT NOTES:

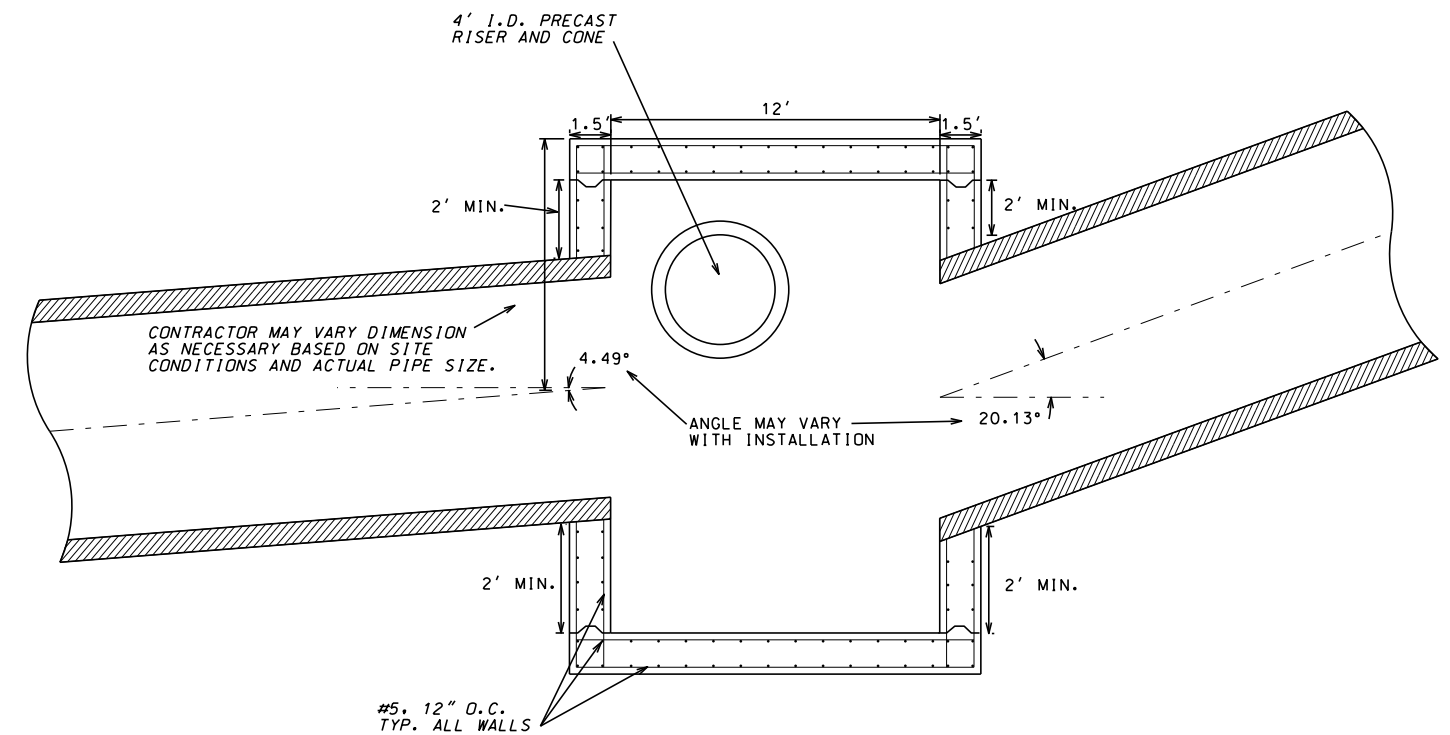
- 1) MOVE REINFORCEMENT A MAXIMUM OF 2" TO CLEAR OPENING, CUT REMAINING BARS THROUGH OPENING. WHERE REINFORCEMENT MUST BE CUT, ADD AN EQUAL AREA OF REINFORCEMENT "A" (MIN) WITH A MINIMUM CLASS B LAP BEYOND OPENING.
- 2) DIAGONAL BARS "B" SHALL BE PLACED AT EACH FACE OF WALL WHERE 2 LAYERS OF REINFORCEMENT ARE PROVIDED AND AT TOP AND BOTTOM OF ALL SLABS.
- 3) SIZE OF REINFORCEMENT BARS SHALL BE THE SIZE OF THE LARGEST CUT BAR.

NOT TO SCALE

WALNUT STRUCTURE: CROSS SECTION



WALNUT STRUCTURE: PLAN VIEW

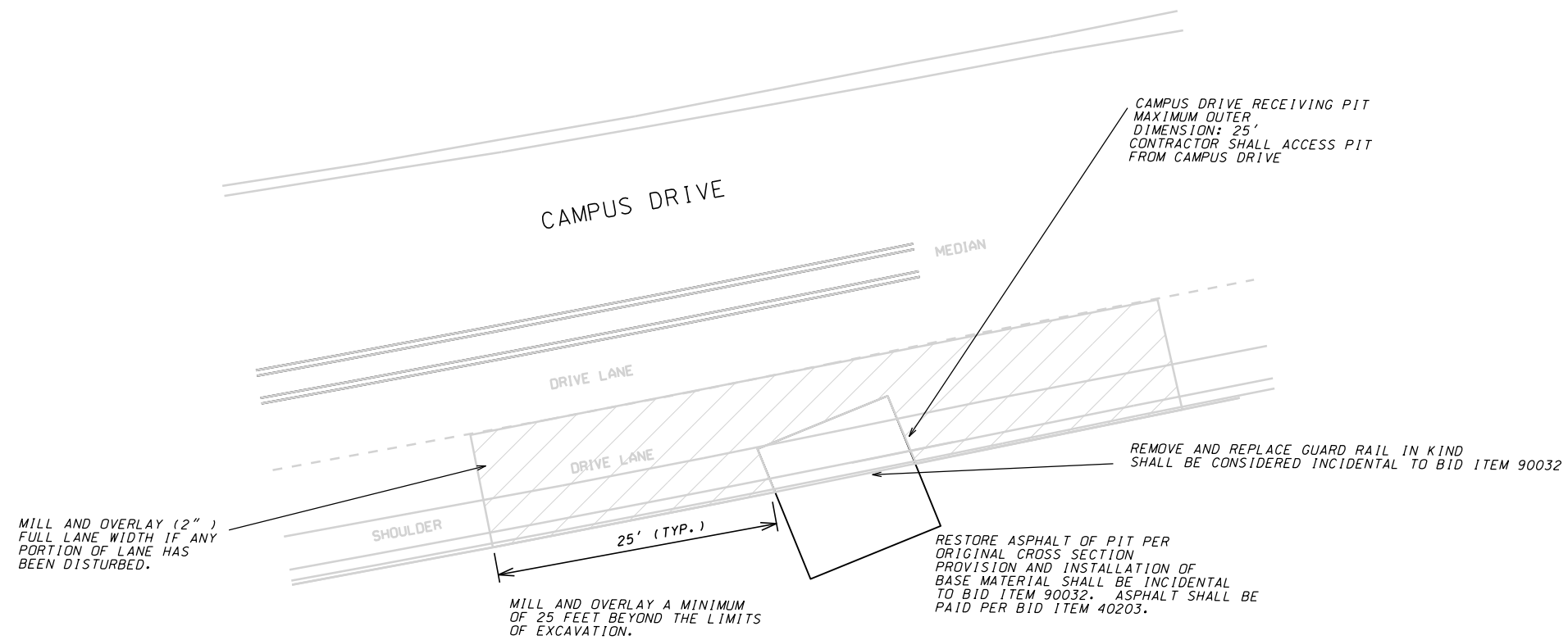


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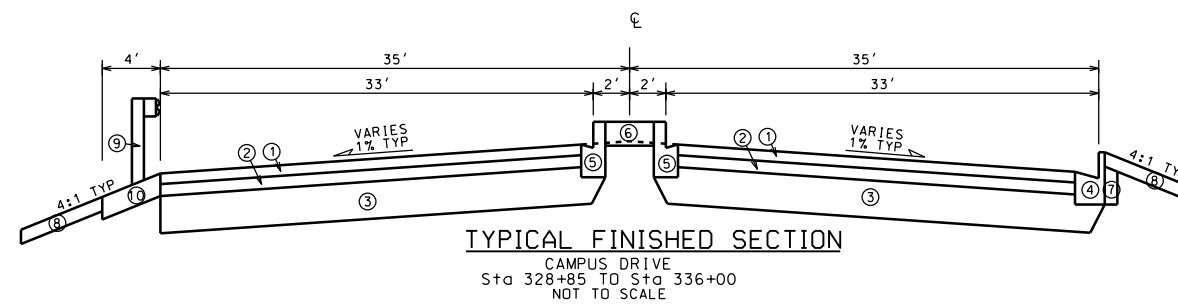
NOT TO SCALE

CAMPUS DRIVE RESURFACING DETAILS



CAMPUS DRIVE: ORIGINAL CROSS SECTION

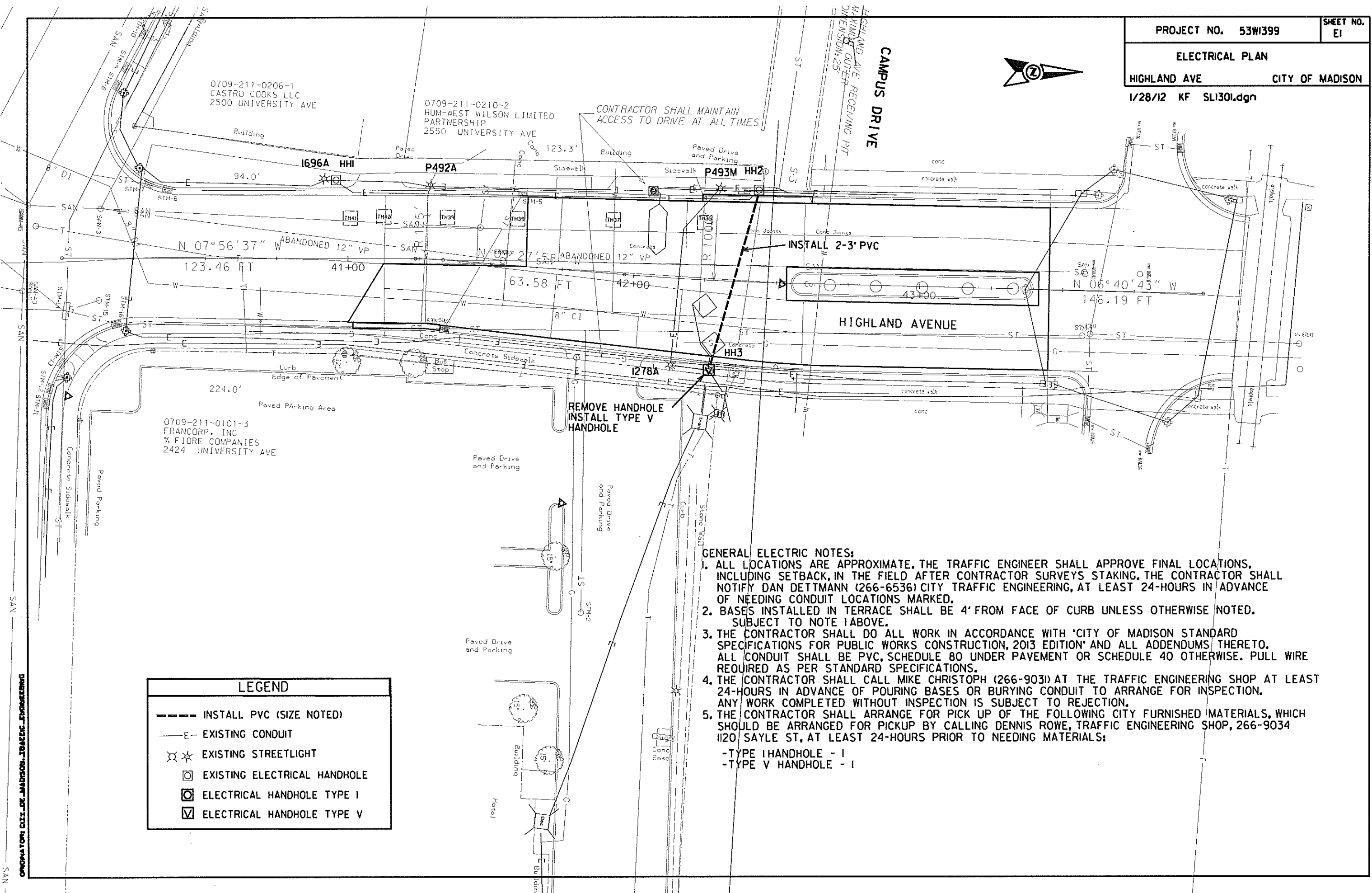
- ① 2 1/2" BITUMINOUS UPPER LAYER, 12.5mm TYPE E-3
- ② 3 1/2" BITUMINOUS LOWER LAYER, 19mm, TYPE E-3
- ③ RUBBLIZED CONCRETE PAVEMENT
- ④ TYPE 'A' CONCRETE CURB AND GUTTER
- ⑤ TYPE 'H' CONCRETE CURB AND GUTTER
- ⑥ 5" CONCRETE SIDEWALK
- ⑦ FILL
- ⑧ 4" TOPSOIL & SEED
- ⑨ STEEL PLATE BEAM GUARD, CLASS 'A' (LOCATIONS INDICATED ON PLAN)
- ⑩ 6" GRAD. NO. 2 CRUSHED AGGREGATE SHOULDER



ELECTRICAL PLAN

HIGHLAND AVE CITY OF MADISON

1/28/12 KF SL1301.dgn



CONTRACTOR SHALL MAINTAIN ACCESS TO DRIVE AT ALL TIMES

INSTALL 2-3' PVC

REMOVE HANDHOLE
INSTALL TYPE V
HANDHOLE

| LEGEND | |
|--------|------------------------------|
| | INSTALL PVC (SIZE NOTED) |
| | EXISTING CONDUIT |
| | EXISTING STREETLIGHT |
| | EXISTING ELECTRICAL HANDHOLE |
| | ELECTRICAL HANDHOLE TYPE I |
| | ELECTRICAL HANDHOLE TYPE V |

- GENERAL ELECTRIC NOTES:**
- ALL LOCATIONS ARE APPROXIMATE. THE TRAFFIC ENGINEER SHALL APPROVE FINAL LOCATIONS, INCLUDING SETBACK, IN THE FIELD AFTER CONTRACTOR SURVEYS STAKING. THE CONTRACTOR SHALL NOTIFY DAN DETTMANN (266-6536) CITY TRAFFIC ENGINEERING, AT LEAST 24-HOURS IN ADVANCE OF NEEDING CONDUIT LOCATIONS MARKED.
 - BASES INSTALLED IN TERRACE SHALL BE 4' FROM FACE OF CURB UNLESS OTHERWISE NOTED. SUBJECT TO NOTE 1 ABOVE.
 - THE CONTRACTOR SHALL DO ALL WORK IN ACCORDANCE WITH 'CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2013 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.
 - THE CONTRACTOR SHALL CALL MIKE CHRISTOPH (266-9031) AT THE TRAFFIC ENGINEERING SHOP AT LEAST 24-HOURS IN ADVANCE OF POURING BASES OR BURYING CONDUIT TO ARRANGE FOR INSPECTION. ANY WORK COMPLETED WITHOUT INSPECTION IS SUBJECT TO REJECTION.
 - THE CONTRACTOR SHALL ARRANGE FOR PICK UP OF THE FOLLOWING CITY FURNISHED MATERIALS, WHICH SHOULD BE ARRANGED FOR PICKUP BY CALLING DENNIS ROWE, TRAFFIC ENGINEERING SHOP, 266-9034 1120 SAYLE ST, AT LEAST 24-HOURS PRIOR TO NEEDING MATERIALS:
 - TYPE I HANDHOLE - 1
 - TYPE V HANDHOLE - 1

CONTRACTOR: CITY OF MADISON TRAFFIC ENGINEERING

ELECTRICAL PLAN

HIGHLAND AVE

CITY OF MADISON

1/28/12 KF SL130I.dgn



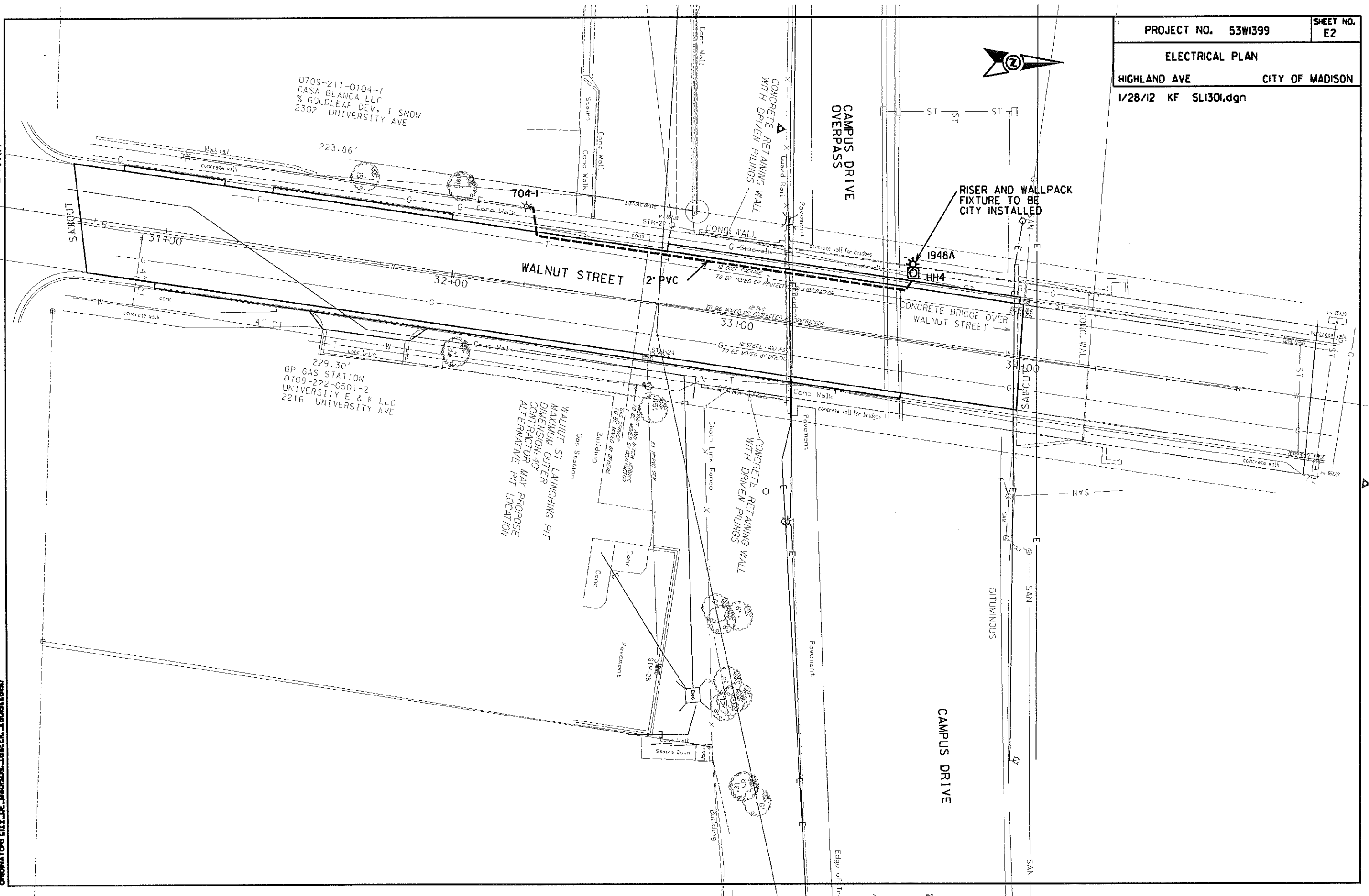
0709-211-0104-7
CASA BLANCA LLC
% GOLDLEAF DEV. I SNOW
2302 UNIVERSITY AVE

229.30'
BP GAS STATION
0709-222-0501-2
UNIVERSITY E & K LLC
2216 UNIVERSITY AVE

WALNUT ST LAUNCHING PIT
MAXIMUM OUTER
DIMENSION: 40'
CONTRACTOR MAY PROPOSE
ALTERNATIVE PIT LOCATION

UNIVERSITY AVENUE

ORIGINATOR OF THIS DRAWING: "CITY OF MADISON" TRAFFIC ENGINEERING



CONSTRUCTION NOTES:

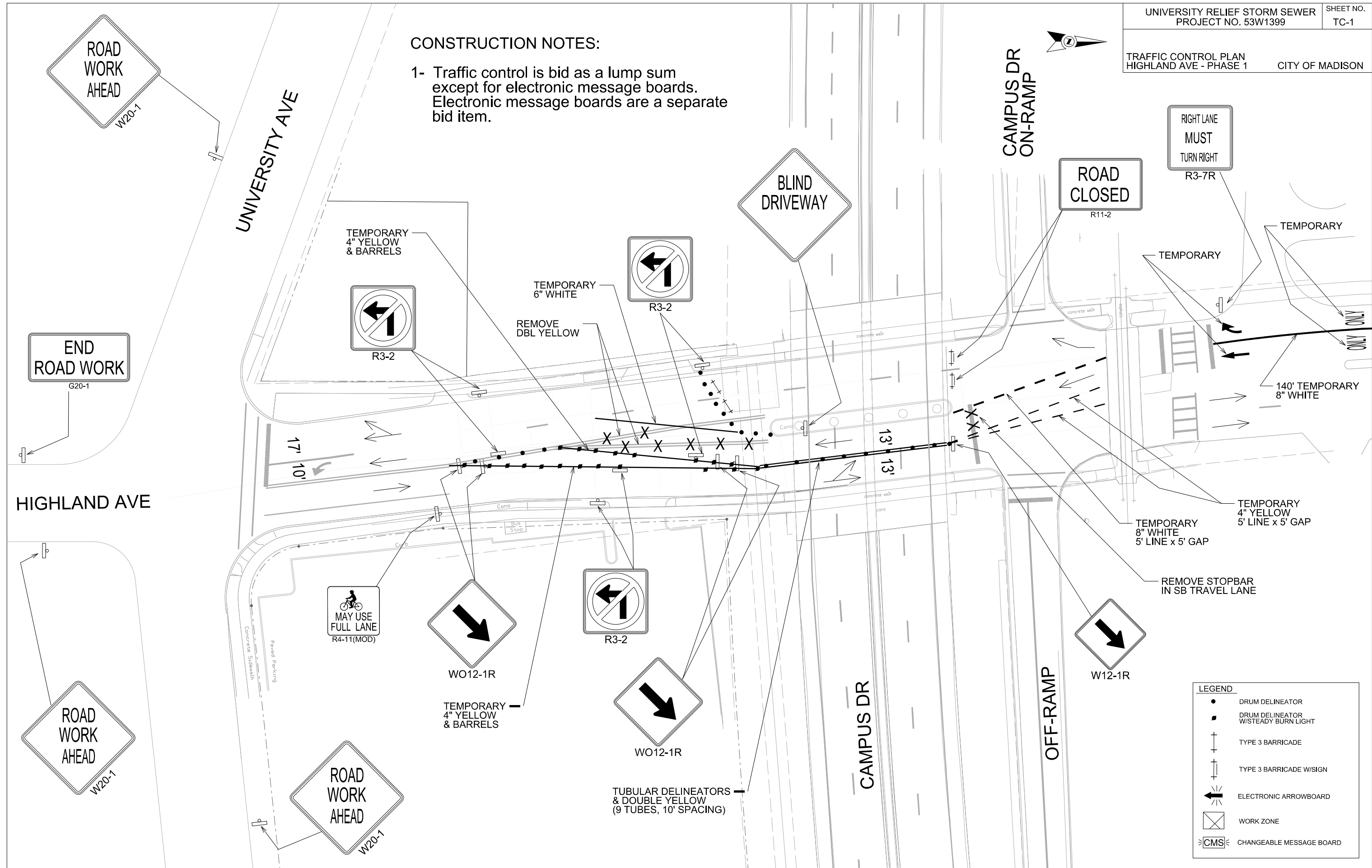
1- Traffic control is bid as a lump sum except for electronic message boards. Electronic message boards are a separate bid item.

PLOT SCALE: 1" = 40'

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



| LEGEND | |
|---------|-------------------------------------|
| ● | DRUM DELINEATOR |
| ■ | DRUM DELINEATOR W/STEADY BURN LIGHT |
| + | TYPE 3 BARRICADE |
| + | TYPE 3 BARRICADE W/SIGN |
| ↔ | ELECTRONIC ARROWBOARD |
| ⊠ | WORK ZONE |
| ⊠ CMS ⊠ | CHANGEABLE MESSAGE BOARD |

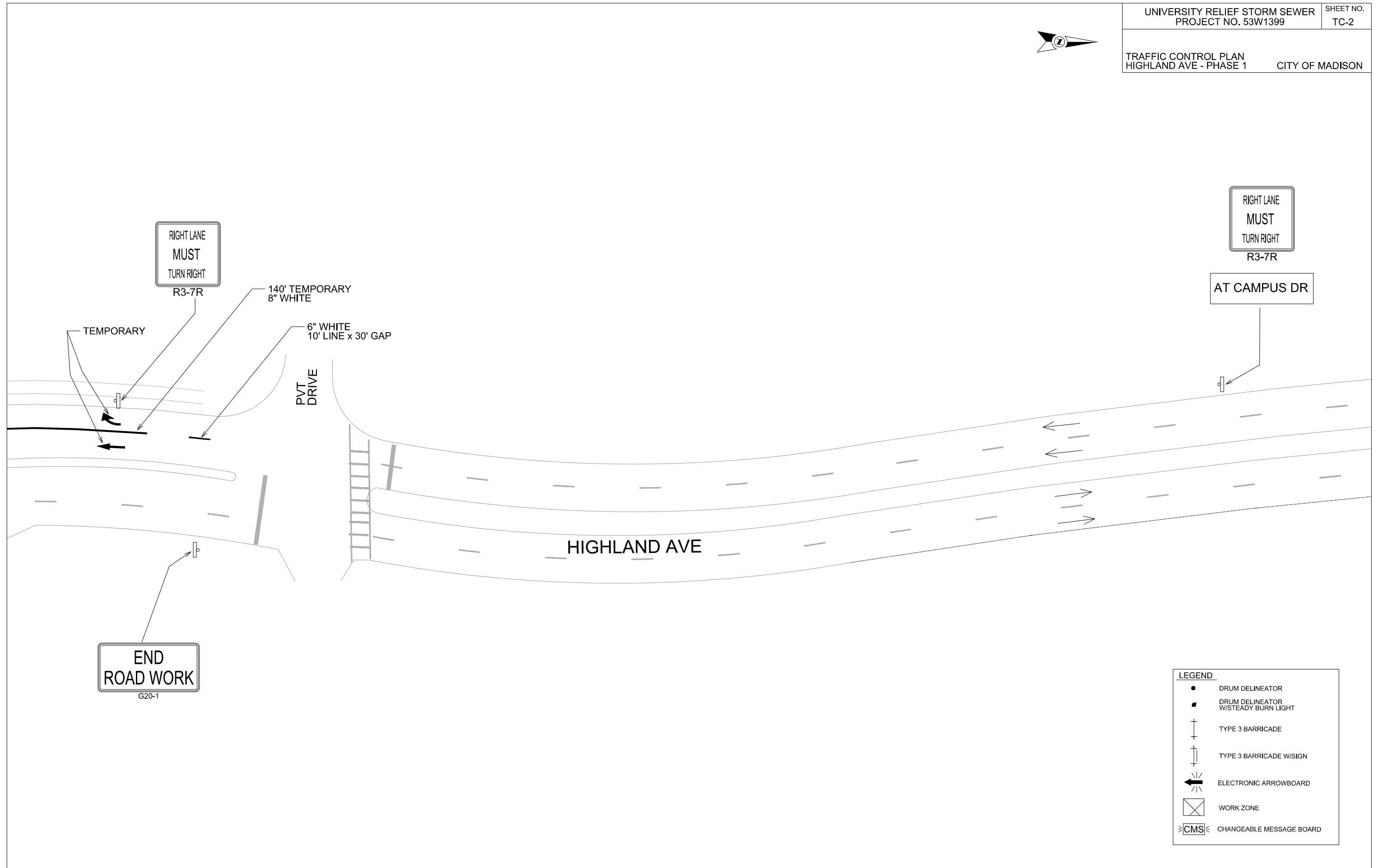


PLOT SCALE: 1" = 40'

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



| LEGEND | |
|--------|-------------------------------------|
| ● | DRUM DELINEATOR |
| ■ | DRUM DELINEATOR W/STEADY BURN LIGHT |
| + | TYPE 3 BARRICADE |
| + | TYPE 3 BARRICADE W/SIGN |
| ← | ELECTRONIC ARROWBOARD |
| ⊠ | WORK ZONE |
| ⊠ | CHANGEABLE MESSAGE BOARD |

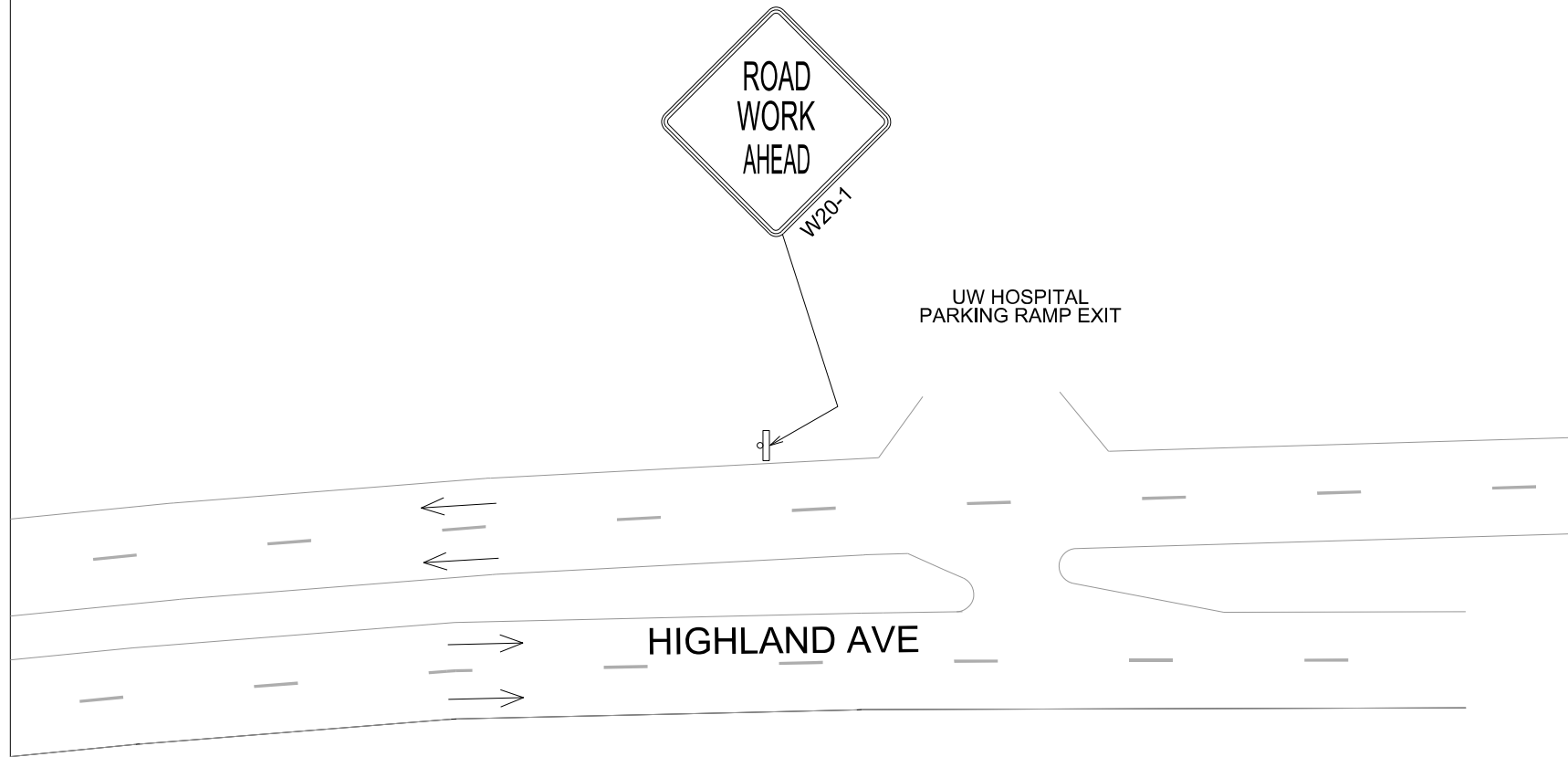


PLOT SCALE: 1" = 40'

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



| LEGEND | |
|--------|-------------------------------------|
| | DRUM DELINEATOR |
| | DRUM DELINEATOR W/STEADY BURN LIGHT |
| | TYPE 3 BARRICADE |
| | TYPE 3 BARRICADE W/SIGN |
| | ELECTRONIC ARROWBOARD |
| | WORK ZONE |
| | CHANGEABLE MESSAGE BOARD |

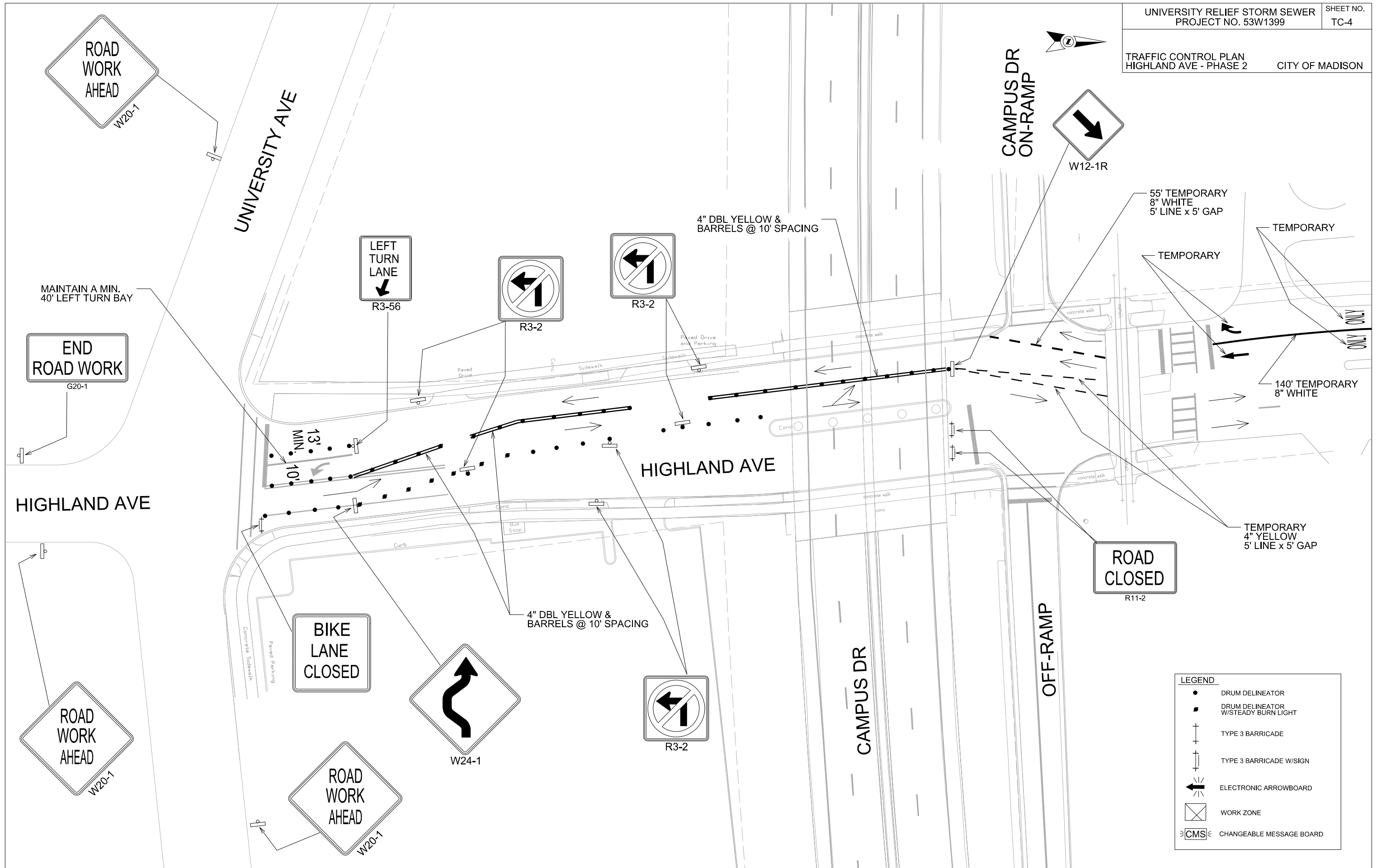


PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



| LEGEND | |
|--------|-------------------------------------|
| | DRUM DELINEATOR |
| | DRUM DELINEATOR W/STEADY BURN LIGHT |
| | TYPE 3 BARRICADE |
| | TYPE 3 BARRICADE W/SIGN |
| | ELECTRONIC ARROWBOARD |
| | WORK ZONE |
| | CHANGEABLE MESSAGE BOARD |

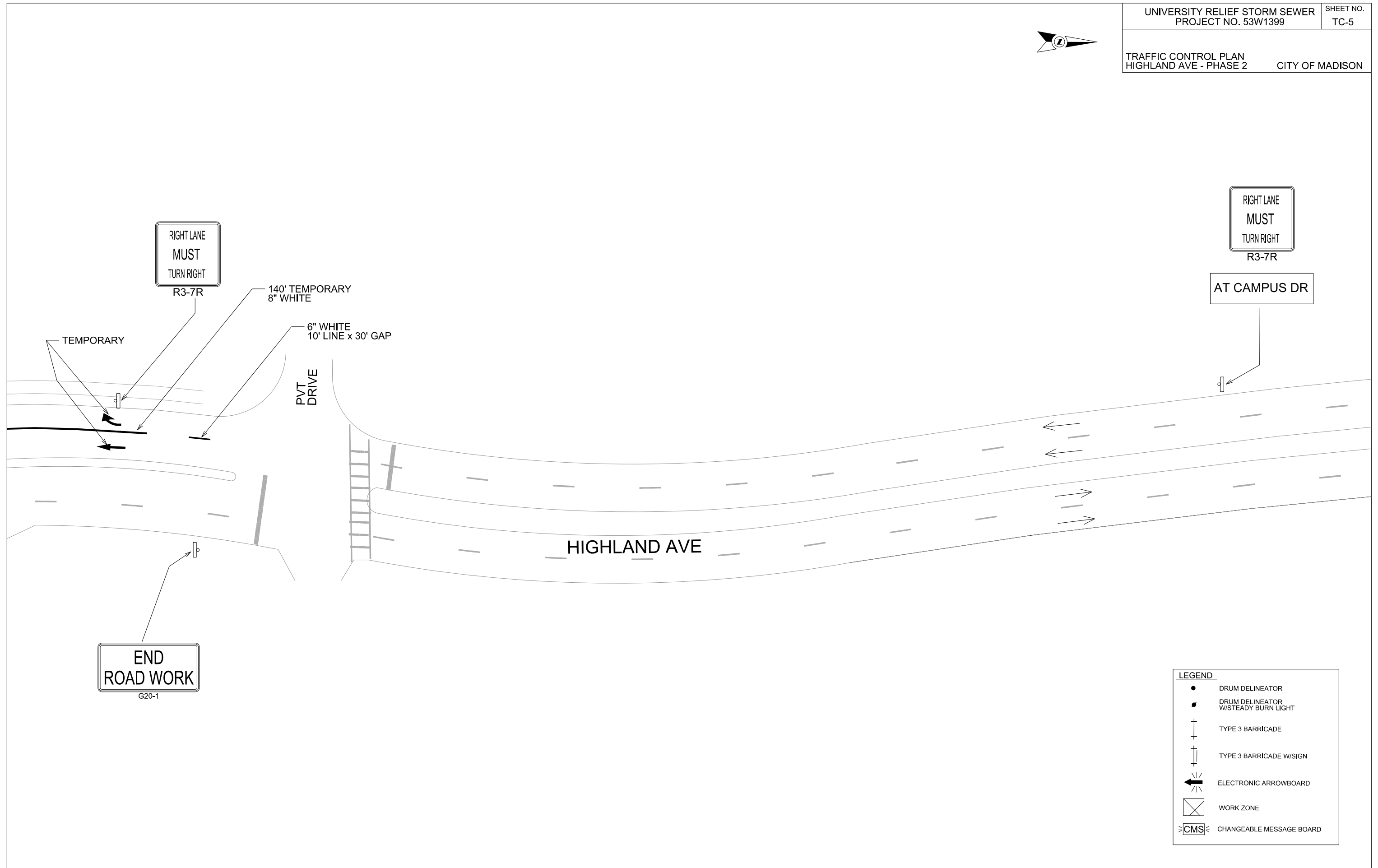


PLOT SCALE: 1" = 40'

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



| LEGEND | |
|--------|-------------------------------------|
| | DRUM DELINEATOR |
| | DRUM DELINEATOR W/STEADY BURN LIGHT |
| | TYPE 3 BARRICADE |
| | TYPE 3 BARRICADE W/SIGN |
| | ELECTRONIC ARROWBOARD |
| | WORK ZONE |
| | CHANGEABLE MESSAGE BOARD |



PLOT SCALE: 1" = 40'

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



UW HOSPITAL
PARKING RAMP EXIT

HIGHLAND AVE

| LEGEND | |
|--------|--|
| | DRUM DELINEATOR |
| | DRUM DELINEATOR W/STEADY BURN LIGHT |
| | TYPE 3 BARRICADE |
| | TYPE 3 BARRICADE W/SIGN |
| | ELECTRONIC ARROWBOARD |
| | WORK ZONE |
| | CHANGEABLE MESSAGE BOARD |

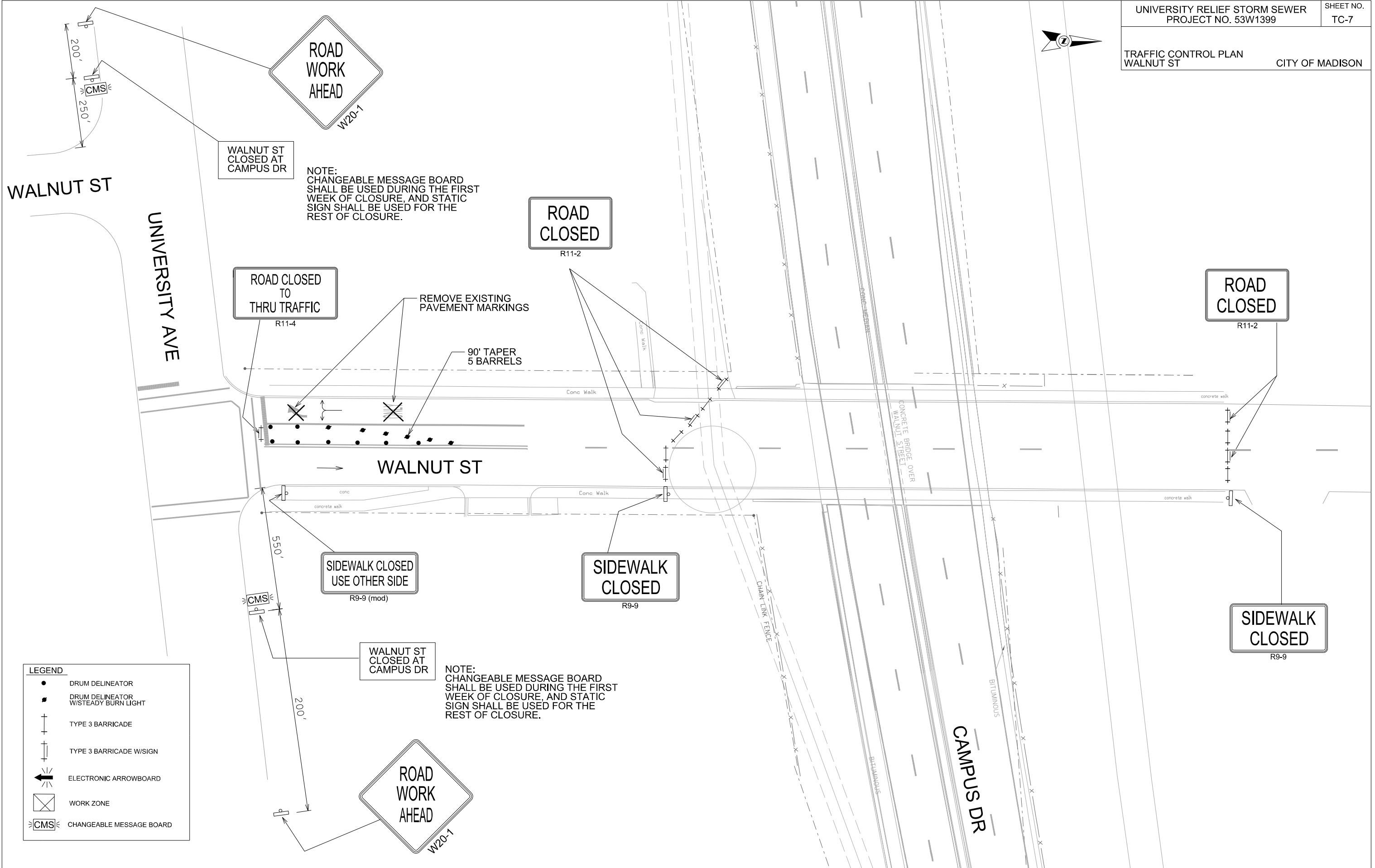


PLOT SCALE: 1" = 40'

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



| LEGEND | |
|--------|-------------------------------------|
| | DRUM DELINEATOR |
| | DRUM DELINEATOR W/STEADY BURN LIGHT |
| | TYPE 3 BARRICADE |
| | TYPE 3 BARRICADE W/SIGN |
| | ELECTRONIC ARROWBOARD |
| | WORK ZONE |
| | CHANGEABLE MESSAGE BOARD |



PLOT SCALE: 1" = 40'

PLOT NAME:

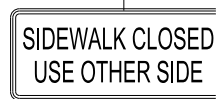
REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

GIFFORD PINCHOT DR

WALNUT ST

LINDEN DR



R9-9 (mod)

| LEGEND | |
|---------|-------------------------------------|
| ● | DRUM DELINEATOR |
| ■ | DRUM DELINEATOR W/STEADY BURN LIGHT |
| + | TYPE 3 BARRICADE |
| + | TYPE 3 BARRICADE W/SIGN |
| ← | ELECTRONIC ARROWBOARD |
| ⊠ | WORK ZONE |
| ⊠ CMS ⊠ | CHANGEABLE MESSAGE BOARD |



WALNUT ST
CLOSED AT
CAMPUS DR

200' BACK
OF
CROSSWALK

OBSERVATORY DR

WALNUT ST
CLOSED AT
CAMPUS DR

200' BACK
OF
CROSSWALK

WALNUT ST

LINDEN DR

LEGEND

- DRUM DELINEATOR
- DRUM DELINEATOR W/STEADY BURN LIGHT
- + TYPE 3 BARRICADE
- + TYPE 3 BARRICADE W/SIGN
- ← ELECTRONIC ARROWBOARD
- ⊠ WORK ZONE
- ⊠ CMS ⊠ CHANGEABLE MESSAGE BOARD

200' BACK
OF
CROSSWALK

WALNUT ST
CLOSED AT
CAMPUS DR

PLOT SCALE: 1" = 40'

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

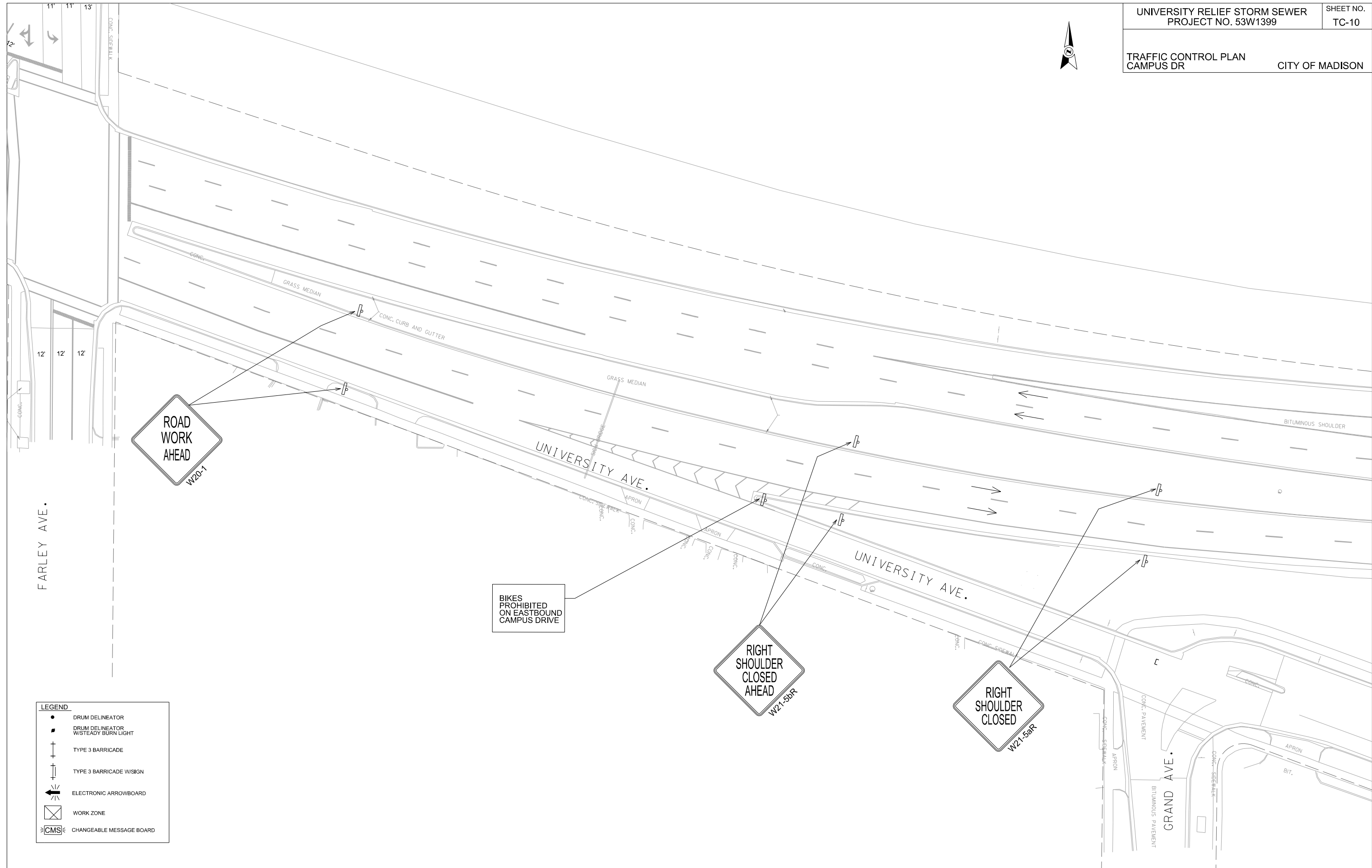


PLOT SCALE: 1" = 50'

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



| LEGEND | |
|--------|-------------------------------------|
| | DRUM DELINEATOR |
| | DRUM DELINEATOR W/STEADY BURN LIGHT |
| | TYPE 3 BARRICADE |
| | TYPE 3 BARRICADE W/SIGN |
| | ELECTRONIC ARROWBOARD |
| | WORK ZONE |
| | CHANGEABLE MESSAGE BOARD |



| LEGEND | |
|--------|-------------------------------------|
| | DRUM DELINEATOR |
| | DRUM DELINEATOR W/STEADY BURN LIGHT |
| | TYPE 3 BARRICADE |
| | TYPE 3 BARRICADE W/SIGN |
| | ELECTRONIC ARROWBOARD |
| | WORK ZONE |
| | CHANGEABLE MESSAGE BOARD |

NOTE:
40 MPH SPEED LIMIT
SIGN ON EASTBOUND
CAMPUS DRIVE SHALL
BE COVERED DURING
PROJECT BY CONTRACTOR.

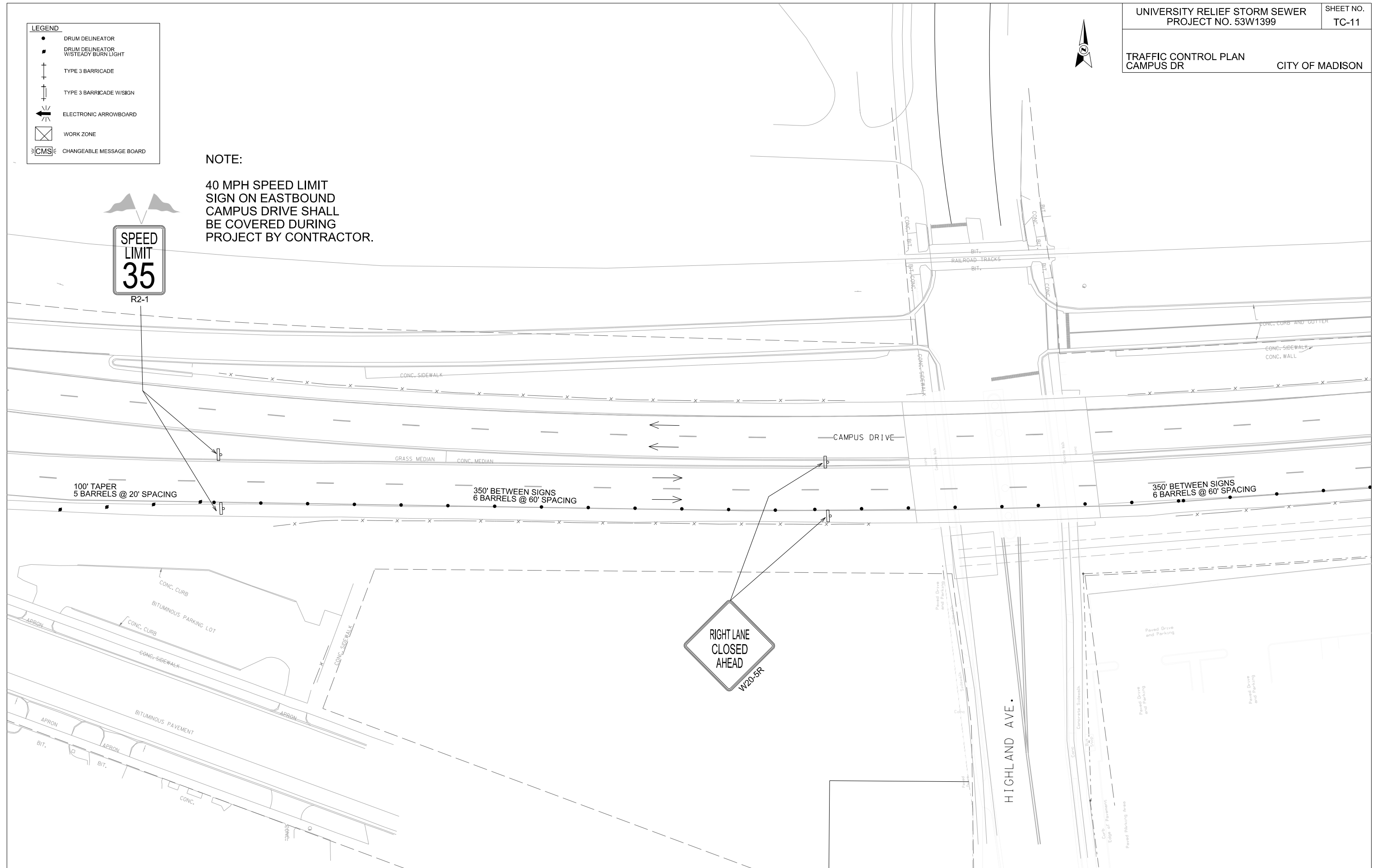


PLOT SCALE: 1" = 50'

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.





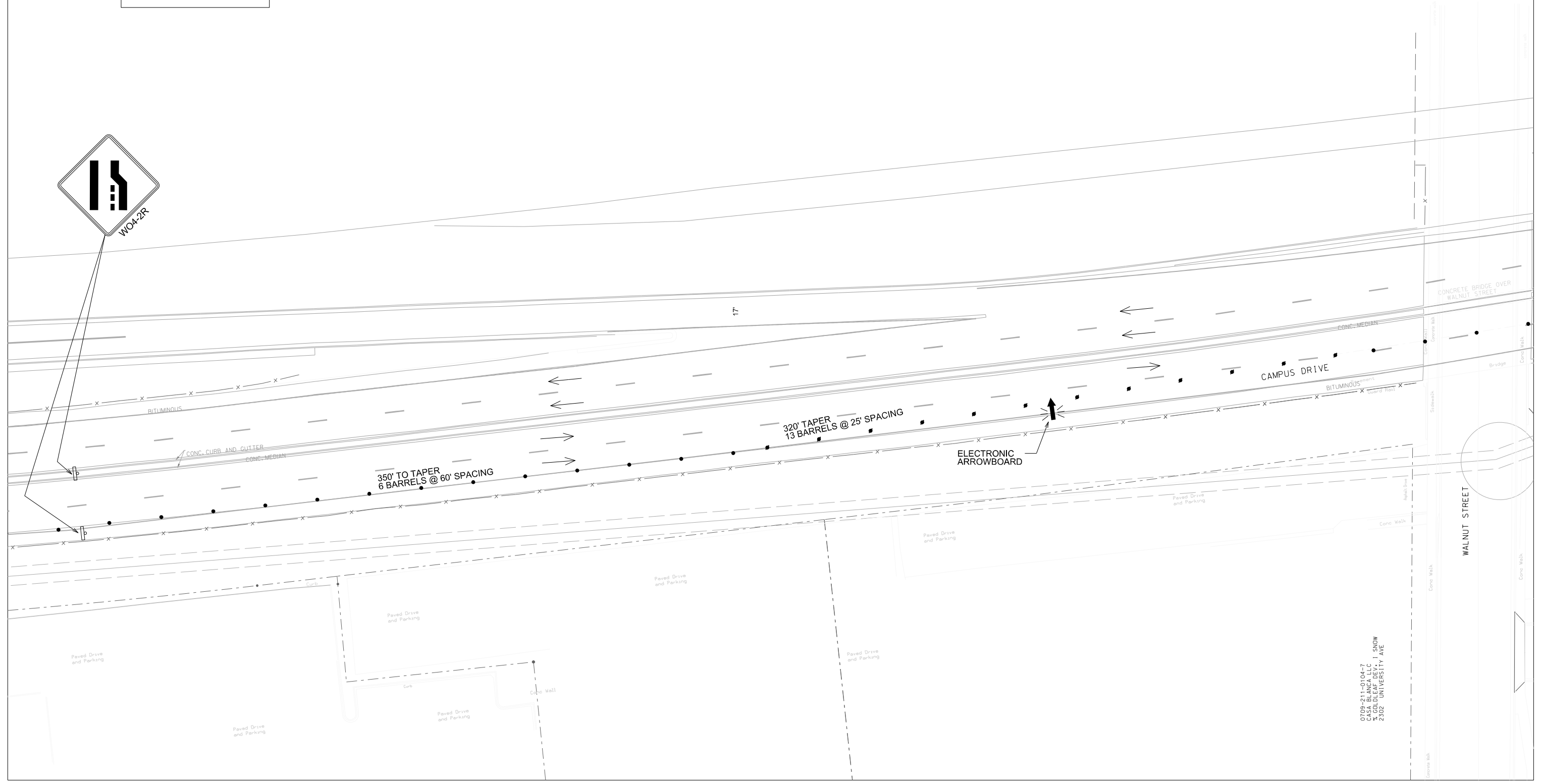
| LEGEND | |
|--------|-------------------------------------|
| ● | DRUM DELINEATOR |
| ■ | DRUM DELINEATOR W/STEADY BURN LIGHT |
| ⊥ | TYPE 3 BARRICADE |
| ⊥ | TYPE 3 BARRICADE W/SIGN |
| ← | ELECTRONIC ARROWBOARD |
| ⊠ | WORK ZONE |
| ⊠ | CHANGEABLE MESSAGE BOARD |

PLOT SCALE: 1" = 50'

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



0709-011-0104-7
CASA BLANCA LLC
7 GOLDFEAF DEV. 1 SNOW
2302 UNIVERSITY AVE



LEGEND

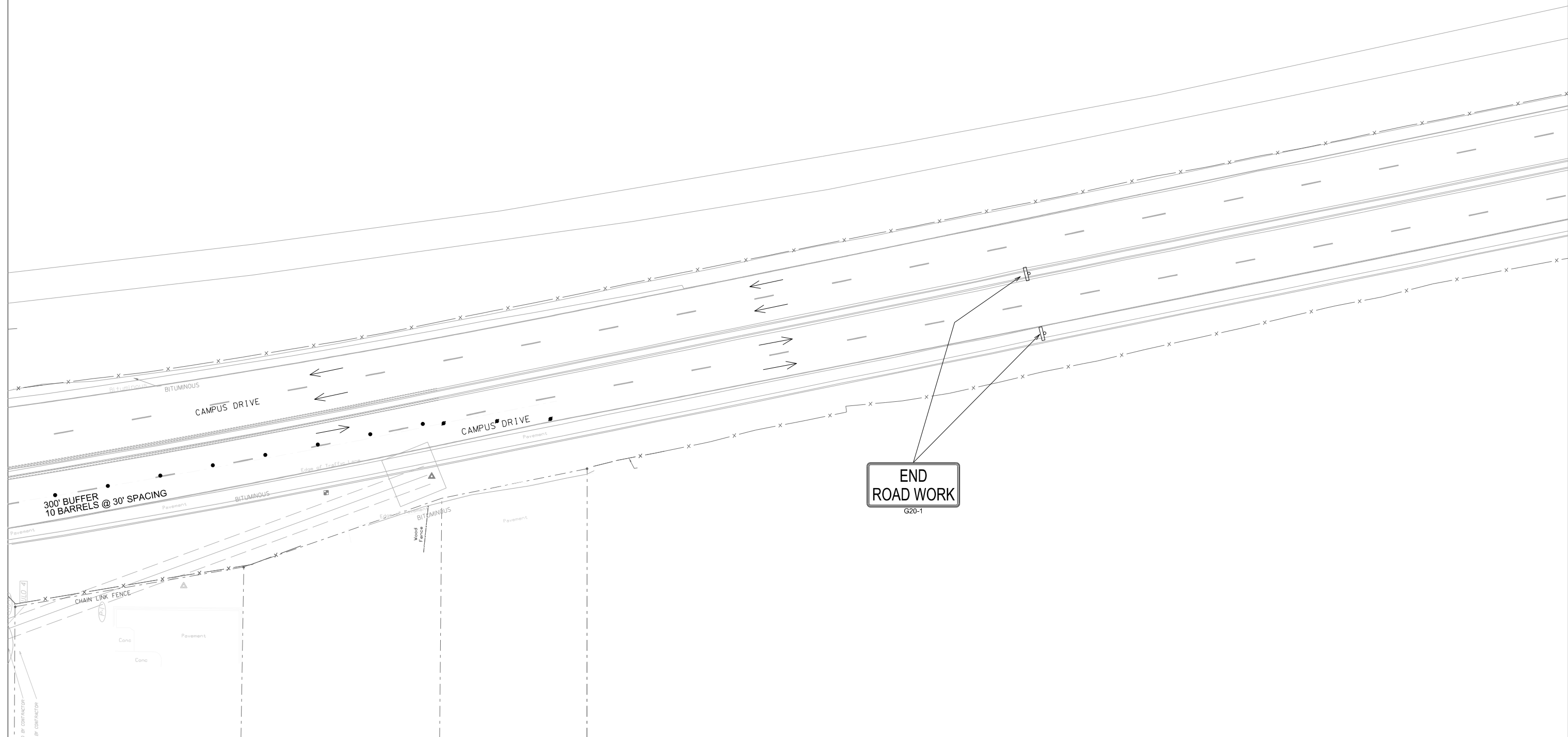
- DRUM DELINEATOR
- DRUM DELINEATOR W/STEADY BURN LIGHT
- ⊥ TYPE 3 BARRICADE
- ⊥ TYPE 3 BARRICADE W/SIGN
- ← ELECTRONIC ARROWBOARD
- ⊠ WORK ZONE
- ⊢ CMS ⊣ CHANGEABLE MESSAGE BOARD

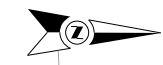
PLOT SCALE: 1" = 50'

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.





PLOT SCALE:
 PLOT NAME:
 REV. DATE:
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

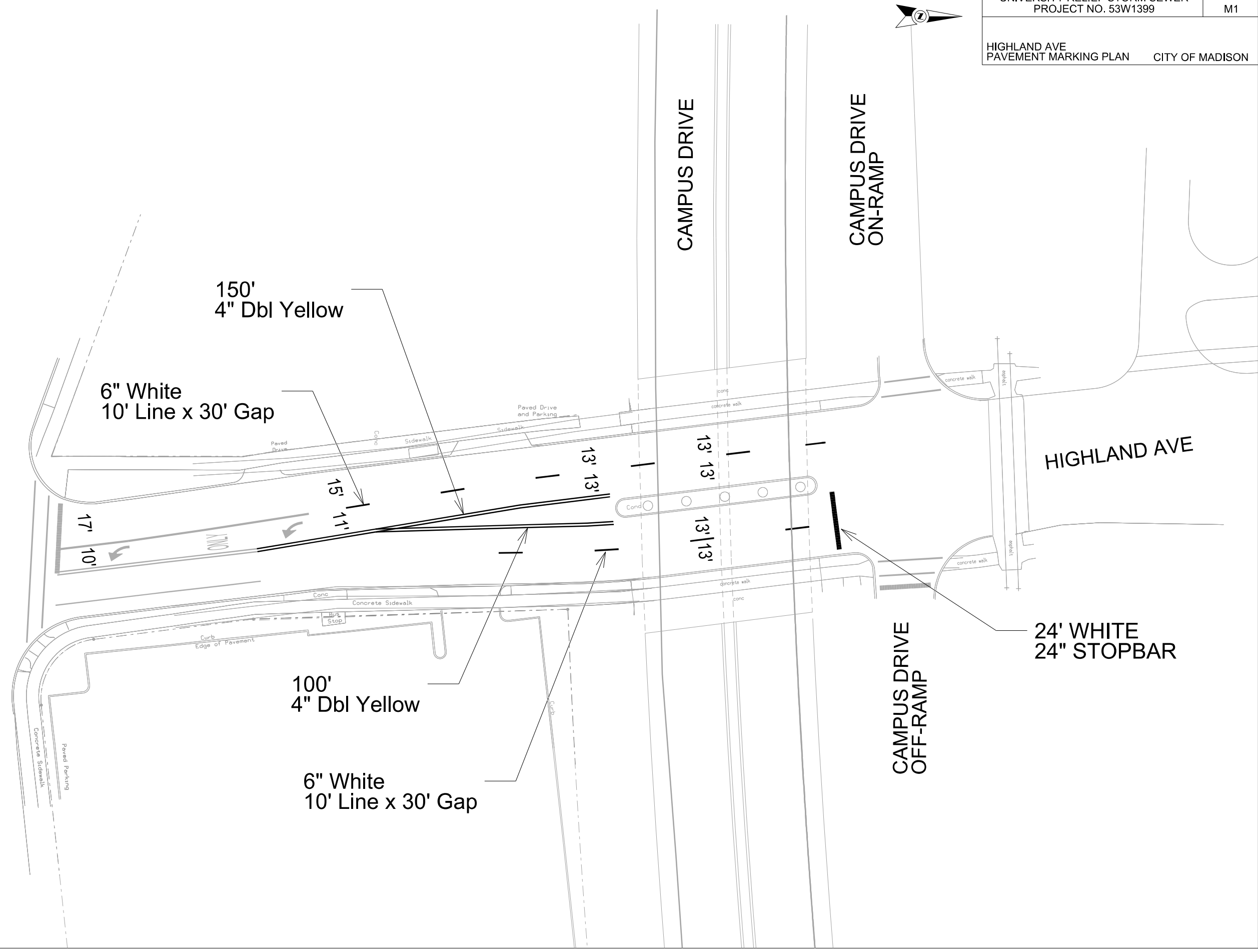
UNIVERSITY AVE

CAMPUS DRIVE

CAMPUS DRIVE
ON-RAMP

HIGHLAND AVE

CAMPUS DRIVE
OFF-RAMP





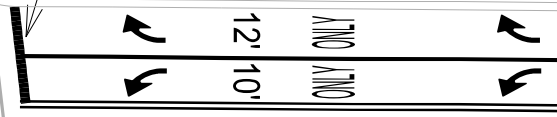
70' 8" White
2' Line x 6' Gap

20' WHITE
24" STOPBAR

150'
8" White

110'
4" White

UNIVERSITY AVE



6' 14' | 14' 9'

WALNUT ST

324'
4" White

150' Dbl Yellow

180' 6" Yellow
10' Line x 30' Gap

CAMPUS DR

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



UNIVERSITY AVE

WALNUT ST

CAMPUS DR

50'
4" WHITE

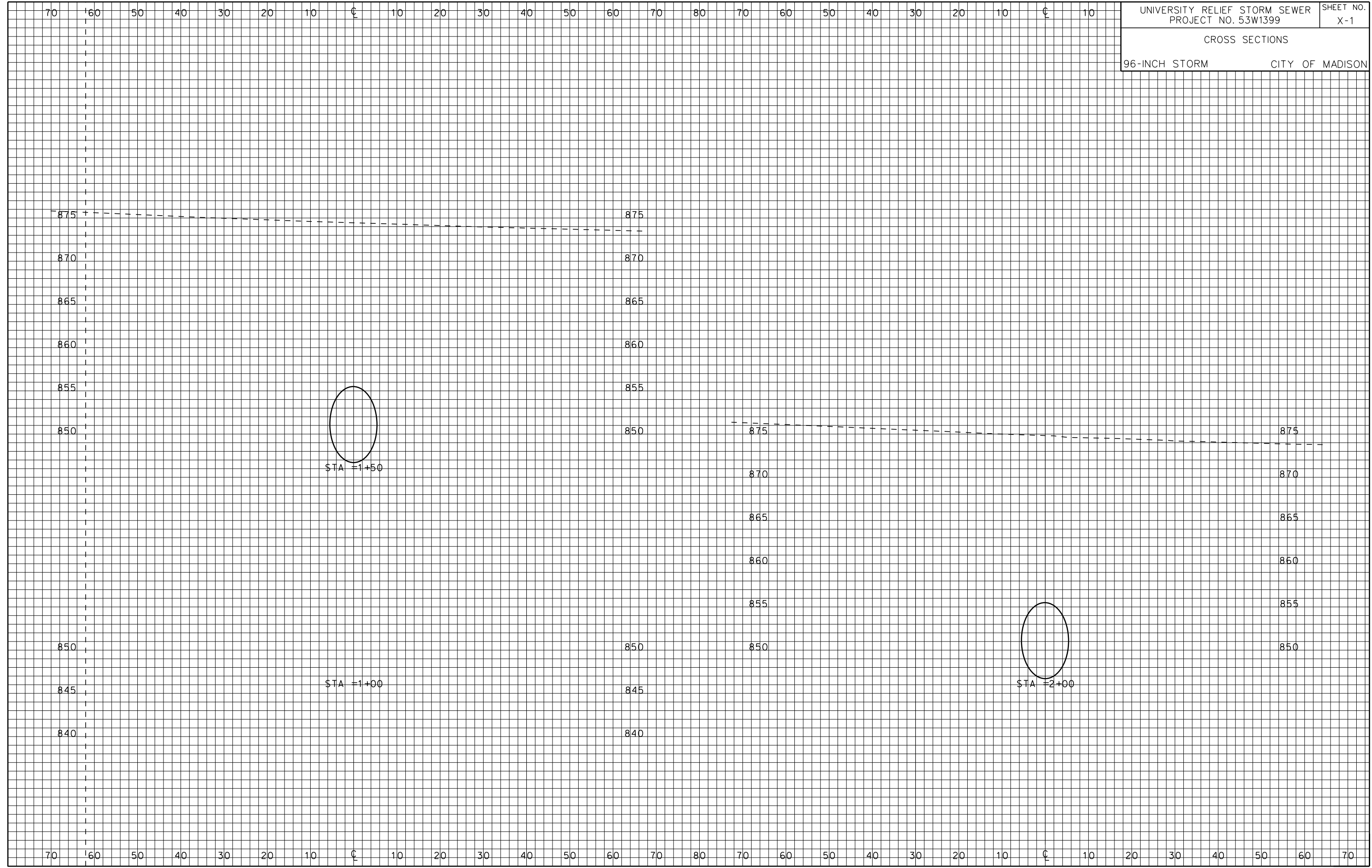
ONLY ONLY

PLOT SCALE: 1" = 40'

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



PLOT SCALE: _____
 PLOT NAME: _____
 REV. DATE: _____

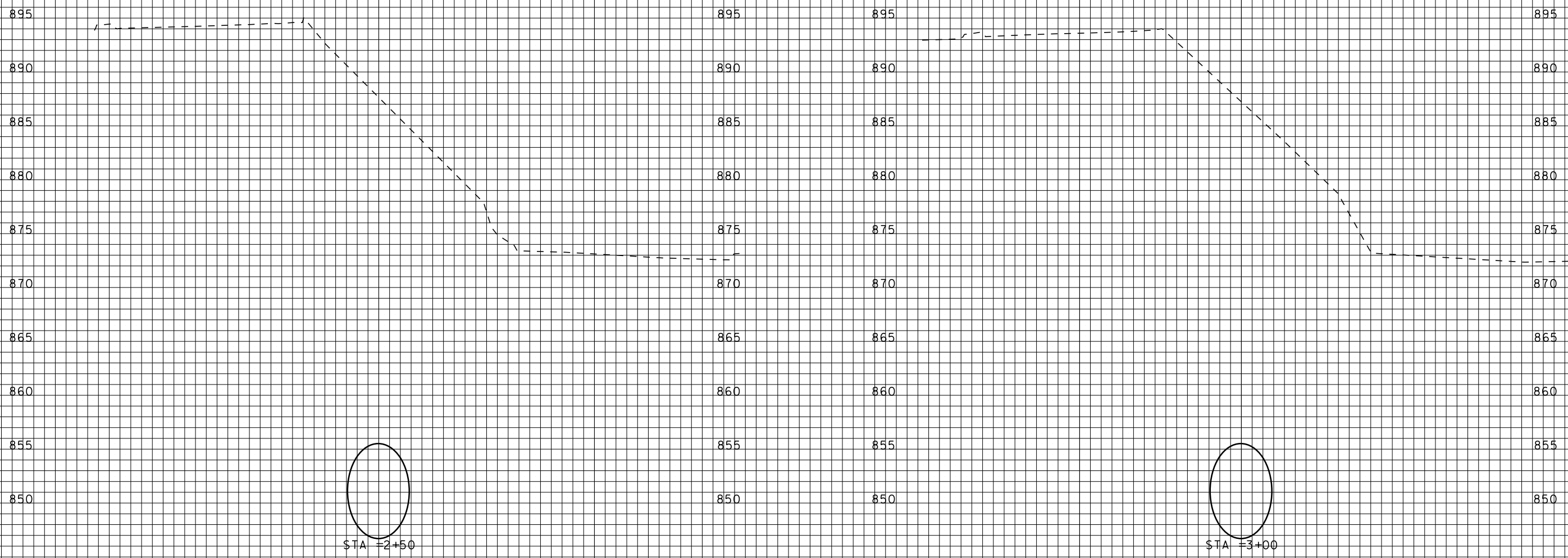
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REV. DATE: _____ PLOT NAME: _____ PLOT SCALE: _____

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 70 60 50 40 30 20 10 0 10

| | |
|--|------------------|
| UNIVERSITY RELIEF STORM SEWER PROJECT NO. 53W1399 | SHEET NO. X-2 |
| CROSS SECTIONS | |
| 96-INCH STORM | CITY OF MADISON |

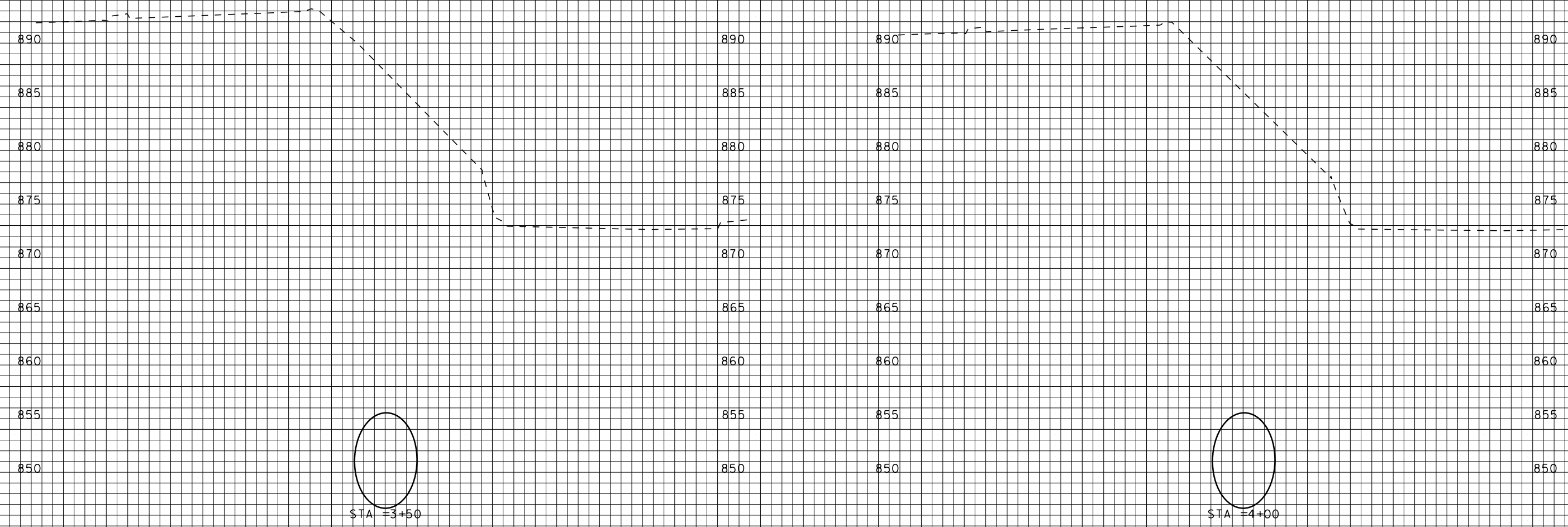


ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REV. DATE: _____ PLOT NAME: _____ PLOT SCALE: _____

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 70 60 50 40 30 20 10 0 10

| | |
|--|------------------|
| UNIVERSITY RELIEF STORM SEWER PROJECT NO. 53W1399 | SHEET NO. X-3 |
| CROSS SECTIONS | |
| 96-INCH STORM | CITY OF MADISON |



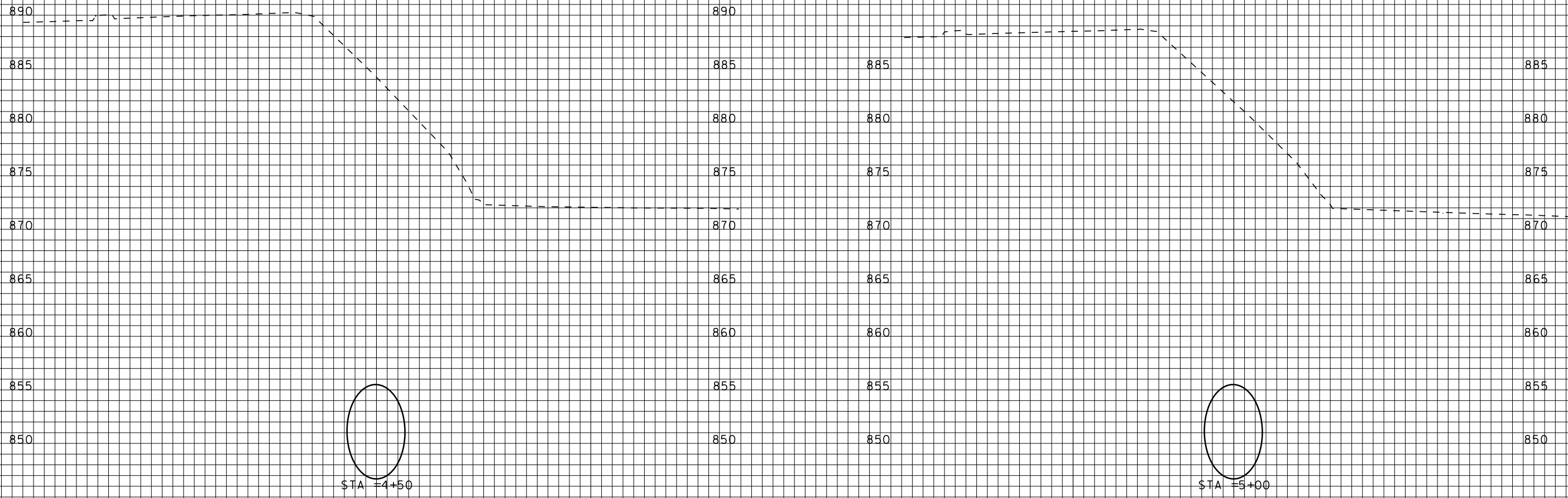
70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REV. DATE: _____ PLOT NAME: _____ PLOT SCALE: _____

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 70 60 50 40 30 20 10 0 10

UNIVERSITY RELIEF STORM SEWER PROJECT NO. 53W1399 SHEET NO. X-4
CROSS SECTIONS
96-INCH STORM CITY OF MADISON



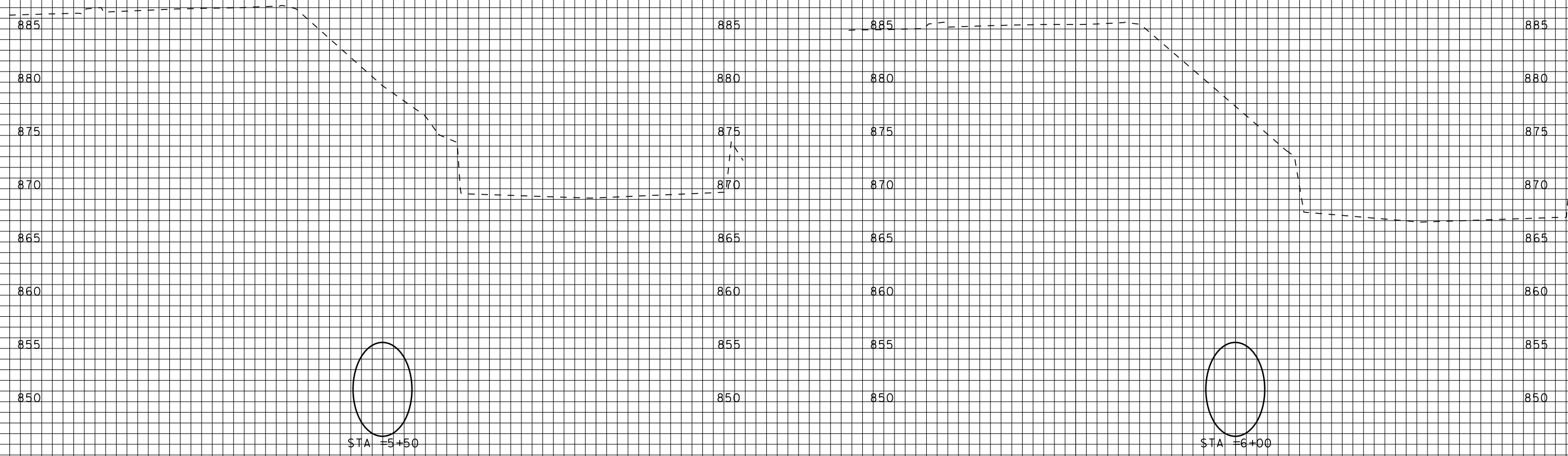
70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 70 60 50 40 30 20 10 0 10

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REV. DATE: _____ PLOT NAME: _____ PLOT SCALE: _____

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 70 60 50 40 30 20 10 0 10

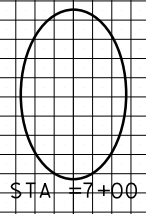
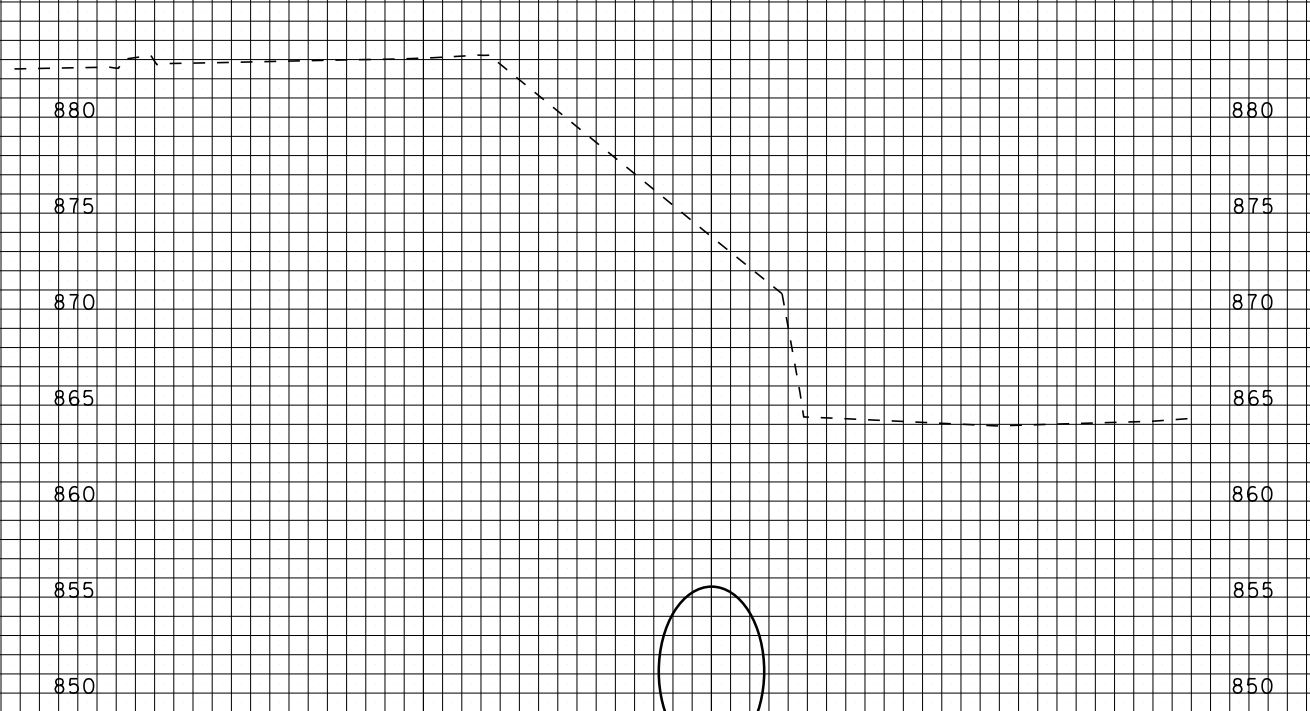
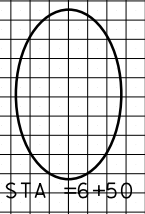
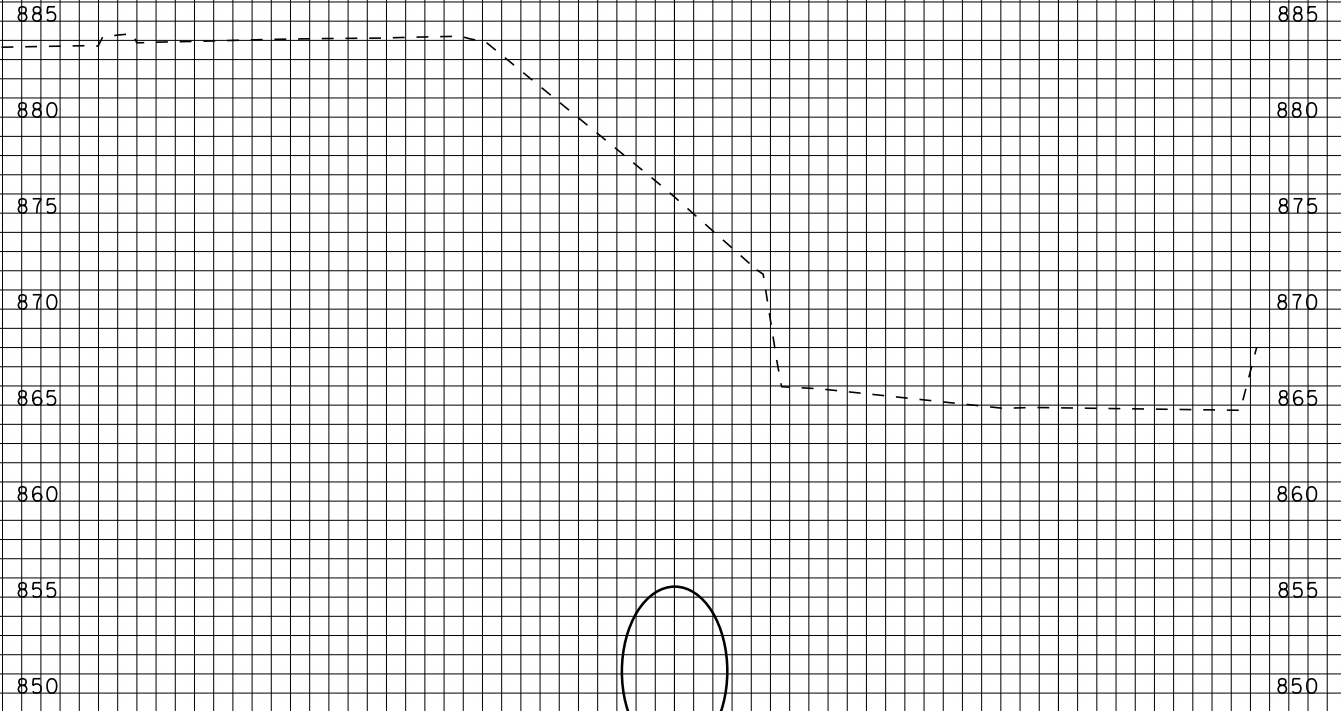
| | |
|--|------------------|
| UNIVERSITY RELIEF STORM SEWER PROJECT NO. 53W1399 | SHEET NO. X-5 |
| CROSS SECTIONS | |
| 96-INCH STORM | CITY OF MADISON |



70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 70 60 50 40 30 20 10 0 10

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 70 60 50 40 30 20 10 0 10

REV. DATE: _____ PLOT NAME: _____ PLOT SCALE: _____

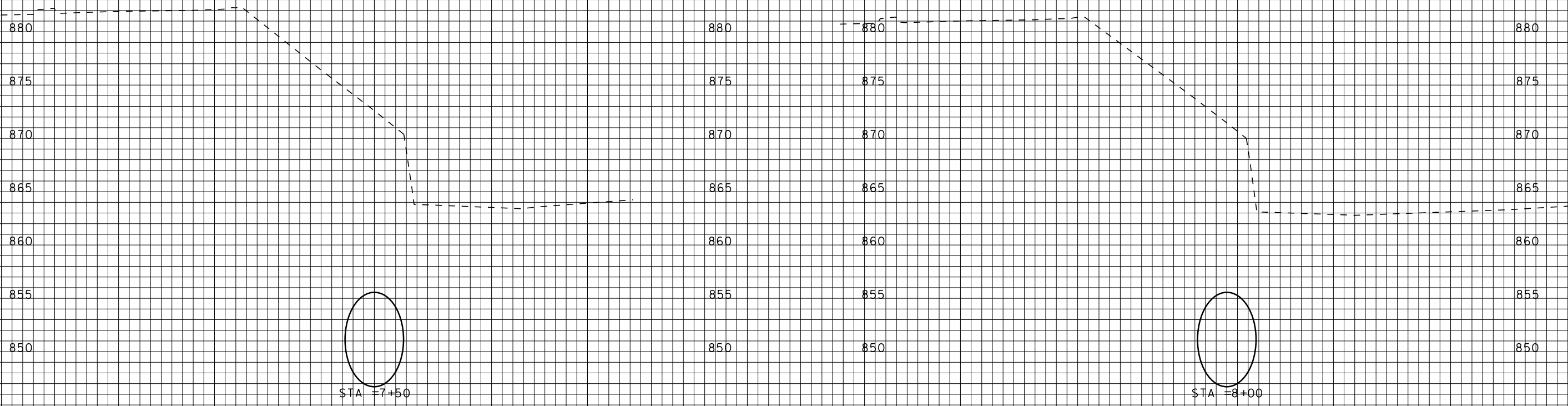


70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 70 60 50 40 30 20 10 0 10

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

UNIVERSITY RELIEF STORM SEWER
PROJECT NO. 53W1399
SHEET NO.
X-7
CROSS SECTIONS
96-INCH STORM CITY OF MADISON

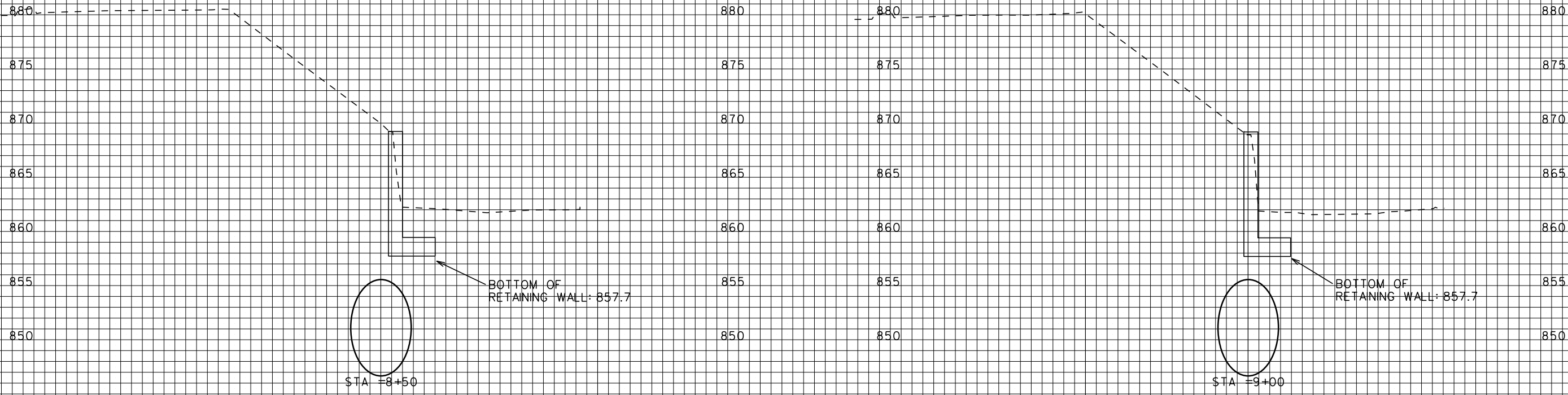
REV. DATE: _____
PLOT NAME: _____
PLOT SCALE: _____



70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 70 60 50 40 30 20 10 0 10

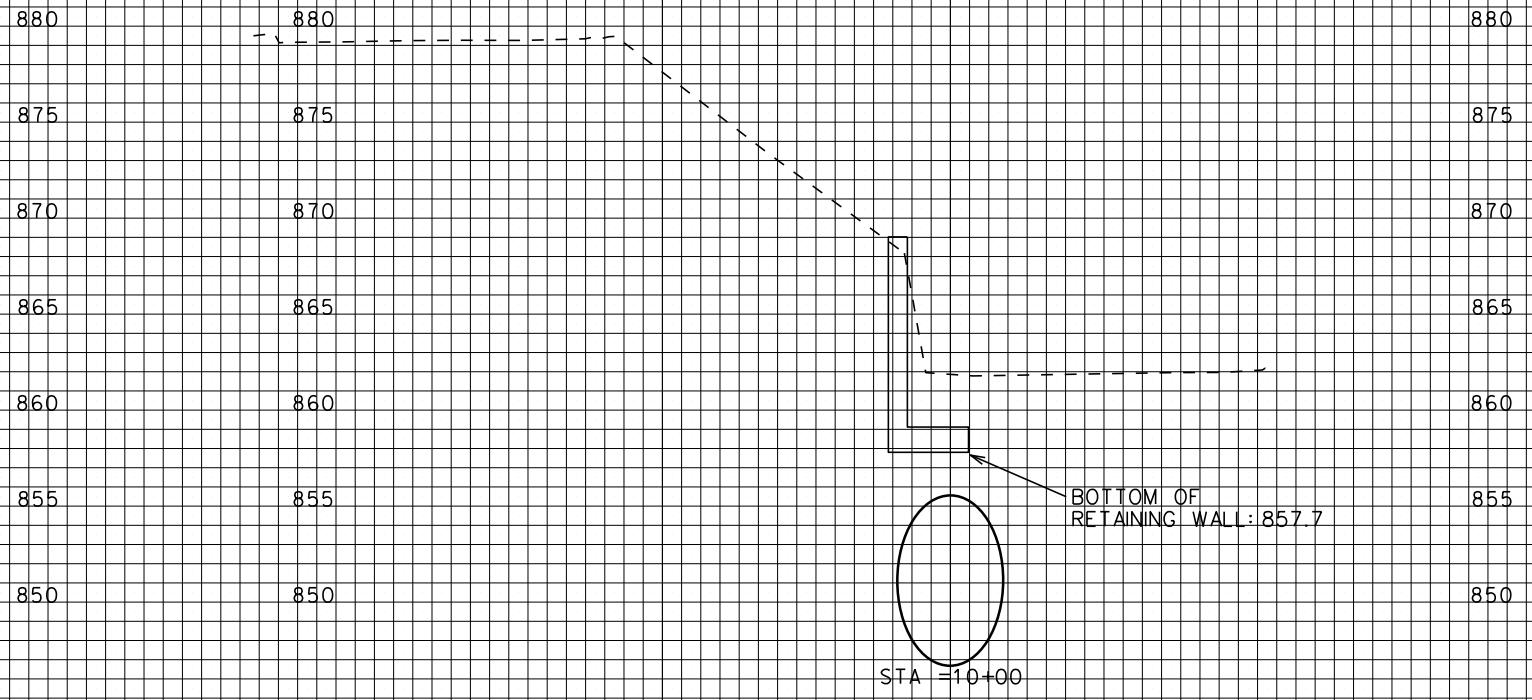
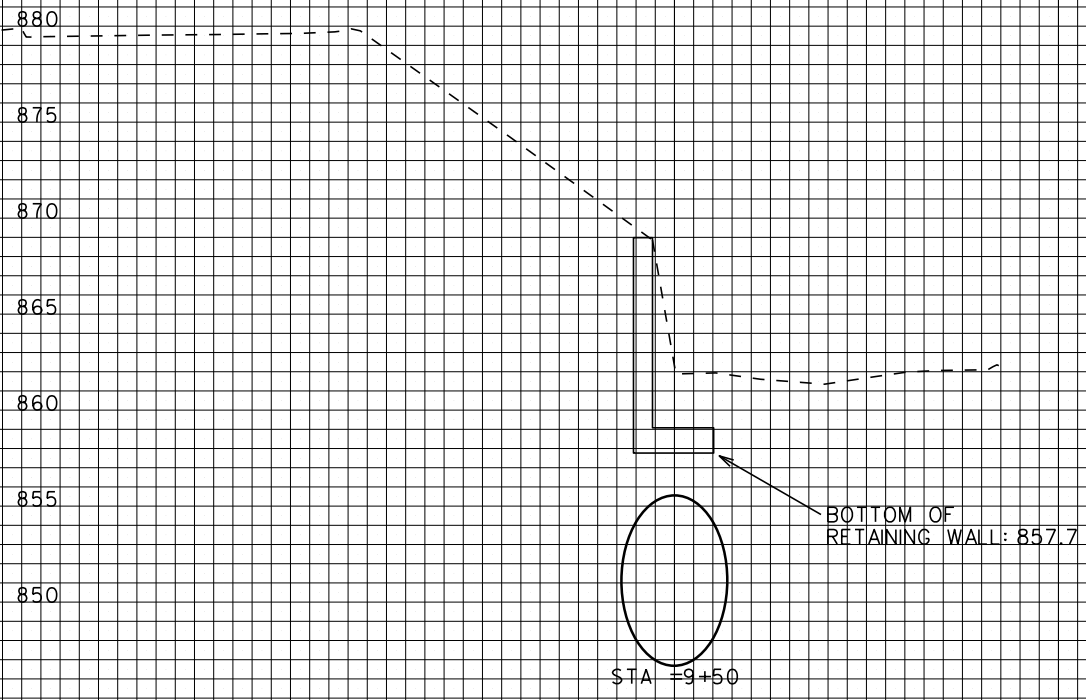
REV. DATE: _____ PLOT NAME: _____ PLOT SCALE: _____



70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 70 60 50 40 30 20 10 0 10

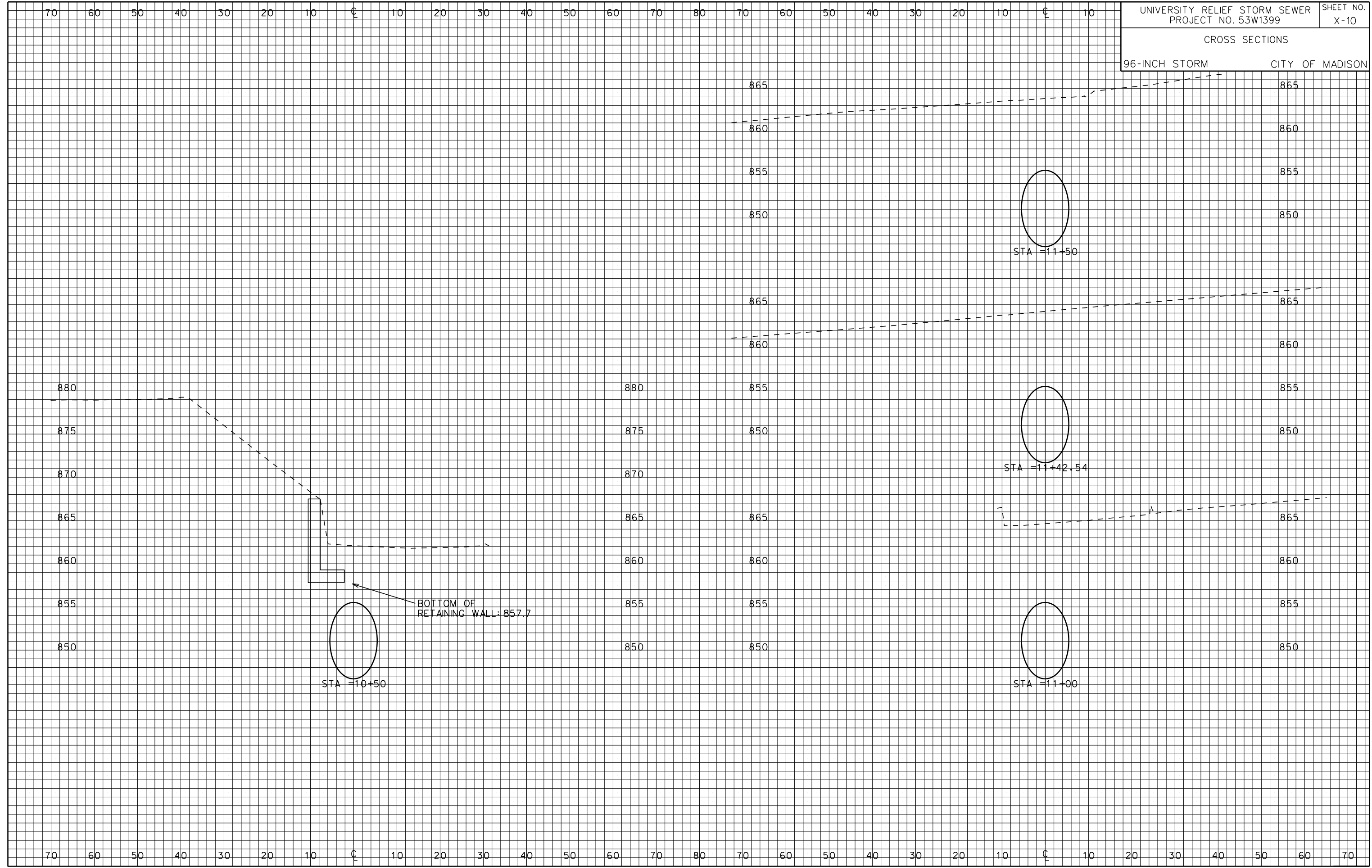
REV. DATE: _____ PLOT NAME: _____ PLOT SCALE: _____



70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REV. DATE: _____ PLOT NAME: _____ PLOT SCALE: _____

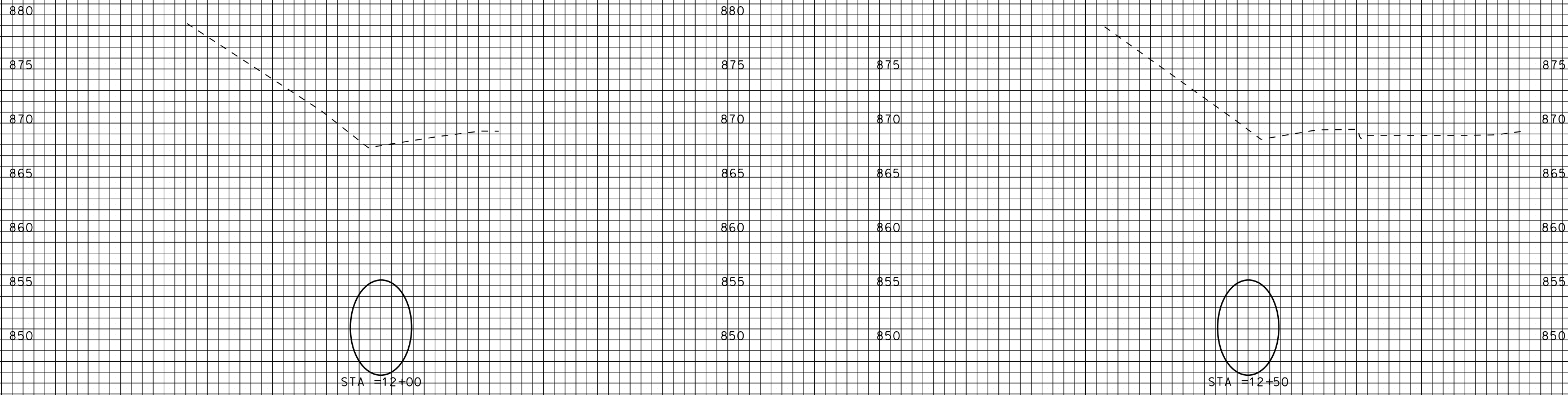


| | |
|--|-------------------|
| UNIVERSITY RELIEF STORM SEWER PROJECT NO. 53W1399 | SHEET NO. X-10 |
| CROSS SECTIONS | |
| 96-INCH STORM | CITY OF MADISON |

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 70 60 50 40 30 20 10 0 10

UNIVERSITY RELIEF STORM SEWER SHEET NO. X-11
PROJECT NO. 53W1399
CROSS SECTIONS
96" STORM SEWER CITY OF MADISON

PLOT SCALE: _____
PLOT NAME: _____
REV. DATE: _____



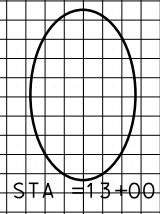
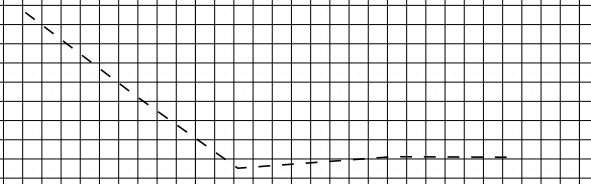
70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 70 60 50 40 30 20 10 0 10

UNIVERSITY RELIEF STORM SEWER PROJECT NO. 53W1399 SHEET NO. X-12
CROSS SECTIONS
96-INCH STORM CITY OF MADISON

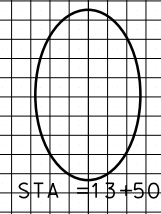
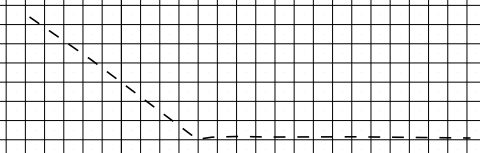
PLOT SCALE: _____
PLOT NAME: _____
REV. DATE: _____

875
870
865
860
855
850



STA =13+00

875
870
865
860
855
850



STA =13+50

875
870
865
860
855
850

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70