



CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

PUBLIC IMPROVEMENT PROJECT APPROVED

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

[Signature] 3/30/16
City Engineer Date

SANITARY SEWER DESIGNED BY:

SANITARY SEWER DESIGNED BY CONSULTANT PLAN & PROFILE SHEET STAMPED & SIGNED

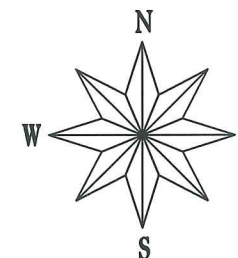
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SHEET NO. 1 EROSION CONTROL PLAN
SHEET NO. 2-3 UTILITY PLAN & PROFILES

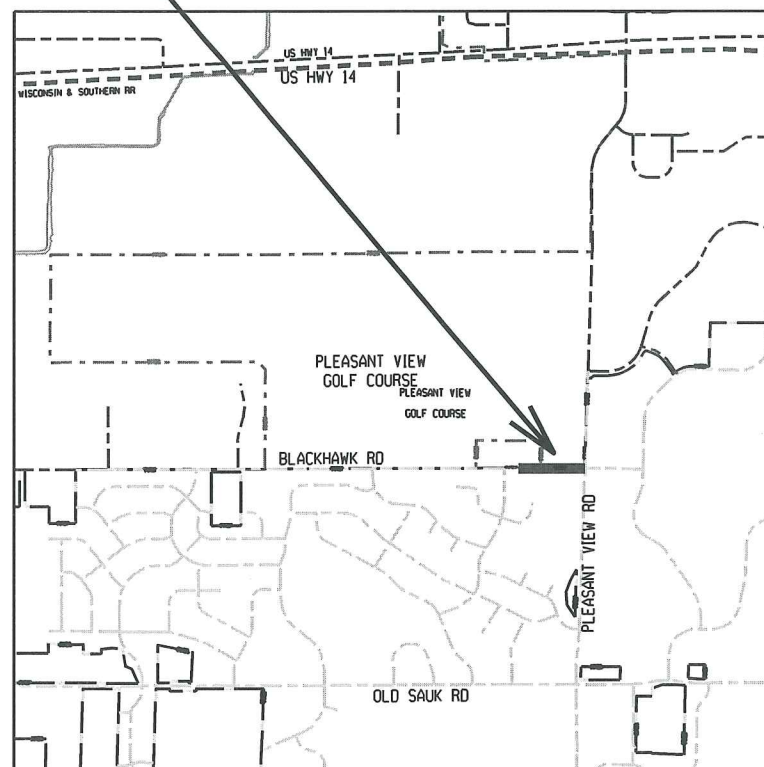
8850 BLACKHAWK ROAD BROWNPOINT RESERVE

CONTRACT NO. 7677

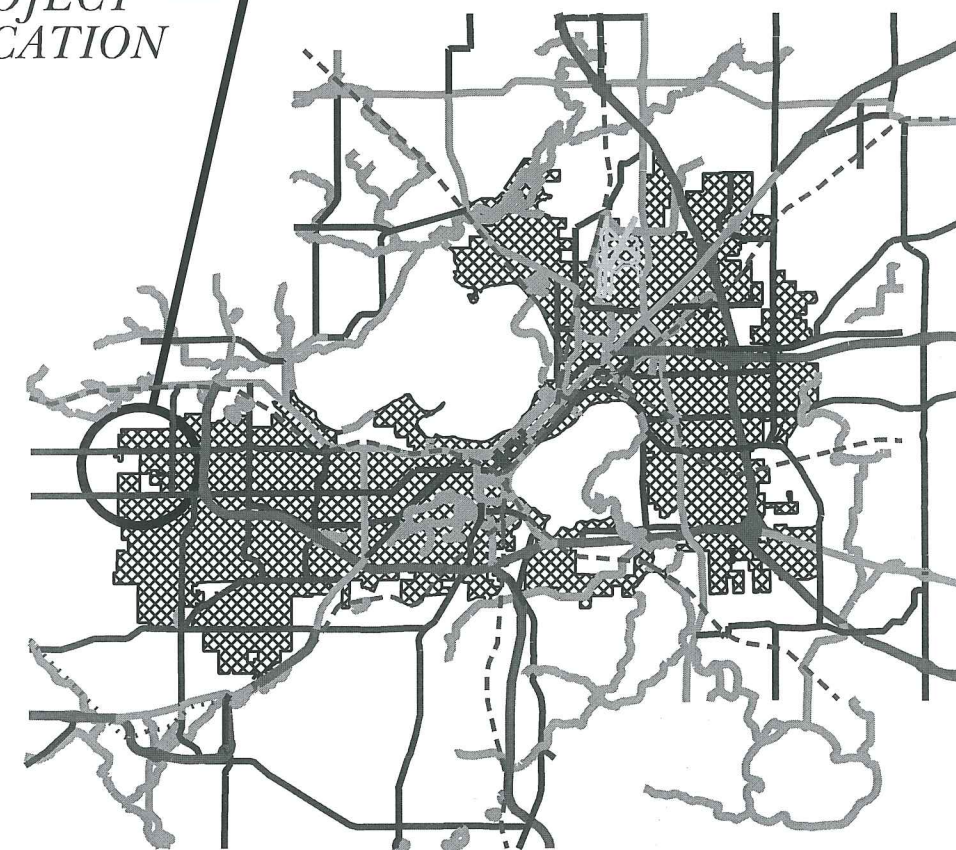
MUNIS NO. 11335



CONSTRUCTION PROJECT LOCATION



PROJECT LOCATION



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	[Hatched Box]
COMBUSTIBLE FLUIDS	[Starburst]

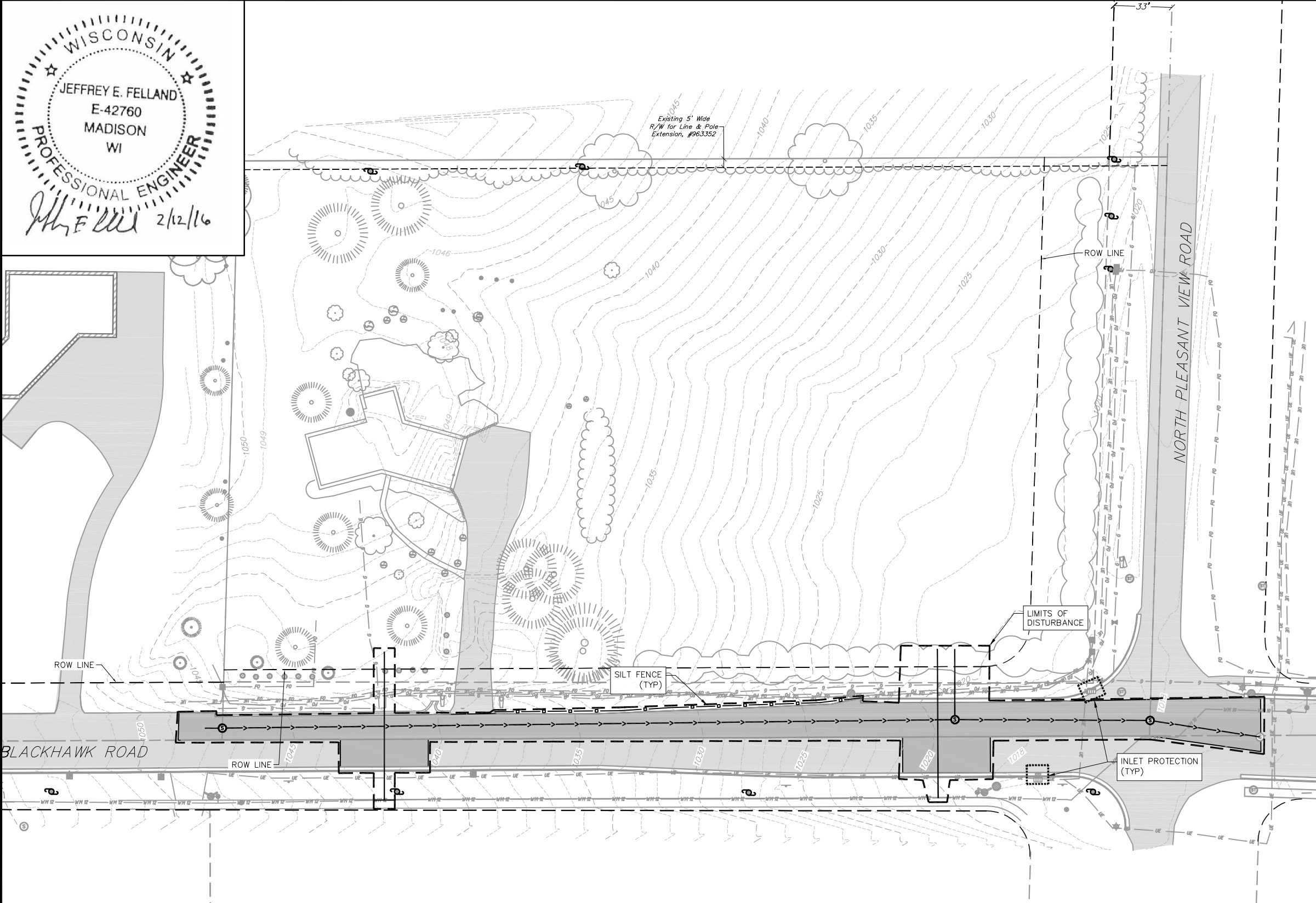
PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

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EROSION CONTROL MEASURE NOTES:

- EROSION CONTROL SHALL BE IN ACCORDANCE WITH THE CITY EROSION CONTROL ORDINANCE AND CHAPTER NR 216 OF THE WISCONSIN ADMINISTRATIVE CODE.
- CONSTRUCT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH WISCONSIN DNR TECHNICAL STANDARDS (<http://dnr.wi.gov/runoff/stormwater/techstds.htm>) AND WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK.
- INSTALL SEDIMENT CONTROL PRACTICES (TRACKING PAD, PERIMETER SILT FENCE, ETC.) PRIOR TO INITIATING OTHER LAND DISTURBING CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR IS REQUIRED TO MAKE EROSION CONTROL INSPECTIONS AT THE END OF EACH WEEK AND WHEN 0.5 INCHES OF RAIN FALLS WITHIN 24 HOURS. INSPECTION REPORTS SHALL BE PREPARED AND FILED AS REQUIRED BY THE DNR AND/OR CITY. ALL MAINTENANCE WILL FOLLOW AN INSPECTION WITHIN 24 HOURS.
- EROSION CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ACCEPTANCE OF THIS PROJECT. EROSION CONTROL MEASURES AS SHOWN SHALL BE THE MINIMUM PRECAUTIONS THAT WILL BE ALLOWED. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED IN WRITING BY THE STATE OR LOCAL INSPECTORS, OR THE DEVELOPER'S ENGINEER, SHALL BE INSTALLED WITHIN 24 HOURS.
- STABILIZED DISTURBED GROUND:** ANY SOIL OR DIRT PILES WHICH WILL REMAIN IN EXISTENCE FOR MORE THAN 7-CONSECUTIVE DAYS, WHETHER TO BE WORKED DURING THAT PERIOD OR NOT, SHALL NOT BE LOCATED WITHIN 25-FEET OF ANY ROADWAY, PARKING LOT, PAVED AREA, OR DRAINAGE STRUCTURE OR CHANNEL (UNLESS INTENDED TO BE USED AS PART OF THE EROSION CONTROL MEASURES). TEMPORARY STABILIZATION AND CONTROL MEASURES (SEEDING, MULCHING, TARPING, EROSION MATTING, BARRIER FENCING, ETC.) ARE REQUIRED FOR THE PROTECTION OF DISTURBED AREAS AND SOIL PILES, WHICH WILL REMAIN UN-WORKED FOR A PERIOD OF MORE THAN 14-CONSECUTIVE CALENDAR DAYS. THESE MEASURES SHALL REMAIN IN PLACE UNTIL SITE HAS STABILIZED.
- SITE DE-WATERING:** WATER PUMPED FROM THE SITE SHALL BE TREATED PER APPLICABLE DNR TECHNICAL STANDARDS, OR OTHER APPROPRIATE CONTROL MEASURES. WATER MAY NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE, A NEIGHBORING SITE, OR THE BED OR BANKS OF THE RECEIVING WATER. POLYMERS MAY BE USED AS DIRECTED BY DNR TECHNICAL STANDARD 1061 (DEWATERING). PUMPING OF WATER FROM FOUNDATION AREA DURING CONSTRUCTION SHALL NOT EXCEED A RATE OF 70 GALLONS PER MINUTE. SUMP PUMP SHALL BE PLACED ON A CLEAR STONE BEDDING AND A CLOTH/MESH SOCK SHALL BE PLACED ON THE OUTLET END OF THE PIPE TO CONTROL SEDIMENT LOSS.
- WASHED STONE WEEPERS OR TEMPORARY EARTH BERMS SHALL BE BUILT AS NECESSARY BY CONTRACTOR TO TRAP SEDIMENT OR SLOW THE VELOCITY OF STORM WATER.
- INLET FILTERS ARE TO BE PLACED IN STORMWATER INLET STRUCTURES AS SOON AS THEY ARE INSTALLED. ALL PROJECT AREA STORM INLETS NEED WISCONSIN D.O.T. TYPE D INLET PROTECTION. THE FILTERS SHALL BE MAINTAINED UNTIL THE CITY HAS ACCEPTED THE BINDER COURSE OF ASPHALT.
- RESTORATION (SEED, FERTILIZE AND MULCH) SHALL BE PER SPECIFICATIONS ON THIS SHEET UNLESS SPECIAL RESTORATION IS CALLED FOR ON THE LANDSCAPE PLAN.
- ALL AREAS WHICH ARE NOT PAVED SHALL RECEIVE A MINIMUM OF 4" TOPSOIL PRIOR TO SEEDING.
- SEED, FERTILIZER AND MULCH SHALL BE APPLIED WITHIN 7 DAYS AFTER FINAL GRADE HAS BEEN ESTABLISHED. IF DISTURBED AREAS WILL NOT BE RESTORED IMMEDIATELY AFTER ROUGH GRADING, TEMPORARY SEED SHALL BE PLACED.
- FOR THE FIRST SIX WEEKS AFTER RESTORATION (E.G. SEED & MULCH, EROSION MAT, SOD) OF A DISTURBED AREA, INCLUDE SUMMER WATERING PROVISIONS OF ALL NEWLY SEEDING AND MULCHED AREAS WHENEVER 7 DAYS ELAPSE WITHOUT A RAIN EVENT.
- EROSION MAT (TYPE I CLASS A PER WISCONSIN D.O.T. P.A.L.) SHALL BE INSTALLED ON ALL SLOPES 3:1 OR GREATER BUT LESS THAN 1:1.
- SOIL STABILIZERS SHALL BE APPLIED TO DISTURBED AREAS WITH SLOPES BETWEEN 10% AND 3:1 (DO NOT USE IN CHANNELS). SOIL STABILIZERS SHALL BE TYPE B, PER WISCONSIN D.O.T. P.A.L. (PRODUCT ACCEPTABILITY LIST), OR EQUAL. APPLY AT RATES AND METHODS SPECIFIED PER MANUFACTURER. SOIL STABILIZERS SHALL BE RE-APPLIED WHENEVER VEHICLES OR OTHER EQUIPMENT TRACK ON THE AREA.
- SILT FENCE TO BE USED ACROSS AREAS OF THE LOT THAT SLOPE TOWARDS A PUBLIC STREET OR WATERWAY.
- SEDIMENT SHALL BE CLEANED FROM CURB AND GUTTER AFTER EACH RAINFALL AND PRIOR TO PROJECT ACCEPTANCE.
- ALL CONSTRUCTION ENTRANCES SHALL HAVE TEMPORARY ROAD CLOSED SIGNS THAT WILL BE IN PLACE WHEN THE ENTRANCE IS NOT IN USE AND AT THE END OF EACH DAY.
- ANY PROPOSED CHANGES TO THE EROSION CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CITY OF MADISON.
- THE CITY OF MADISON, OWNER AND/OR ENGINEER MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES AT ANY TIME DURING CONSTRUCTION.
- IF THE TERRACE IN THE R/W IS TO BE DISTURBED, CONTRACTOR SHALL CONSIDER PLACING STONE/MULCH TO MINIMIZE RUNOFF.
- PUBLIC RIGHT-OF-WAY IMPROVEMENTS TO BE CONSTRUCTED PER CITY OF MADISON PLANS (PROJECT NUMBER TBD).

EROSION CONTROL LEGEND

- - - 820 - - - EXISTING MAJOR CONTOURS
- - - 818 - - - EXISTING MINOR CONTOURS
- - - - - SILT FENCE
- - - - - DISTURBED LIMITS
- - - - - INLET PROTECTION

SITE PLAN LEGEND

- [Hatched Box] PROPOSED ASPHALT
- [Solid Box] EXISTING ASPHALT

PROPOSED UTILITY LEGEND

- - - - - SANITARY SEWER PIPE (GRAVITY)
- - - - - SANITARY SEWER LATERAL PIPE
- - - - - WATER SERVICE LATERAL PIPE

SEEDING RATES:

TEMPORARY:

- USE ANNUAL OATS AT 3.0 LB./1,000 S.F. FOR SPRING AND SUMMER PLANTINGS.
- USE WINTER WHEAT OR RYE AT 3.0 LB./1,000 SF FOR FALL PLANTINGS STARTED AFTER SEPTEMBER 15.

PERMANENT:

- USE WISCONSIN D.O.T. SEED MIX #40 AT 2 LB./1,000 S.F.

FERTILIZING RATES:

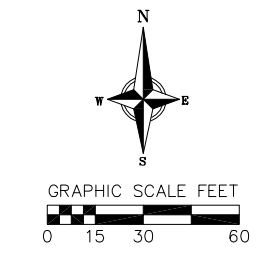
TEMPORARY AND PERMANENT:

USE WISCONSIN D.O.T. TYPE A OR B AT 7 LB./1,000 S.F.

MULCHING RATES:

TEMPORARY AND PERMANENT:

USE 1/2" TO 1-1/2" STRAW OR HAY MULCH, CRIMPED PER SECTION 607.3.2.3, OR OTHER RATE AND METHOD PER SECTION 627, WISCONSIN D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION



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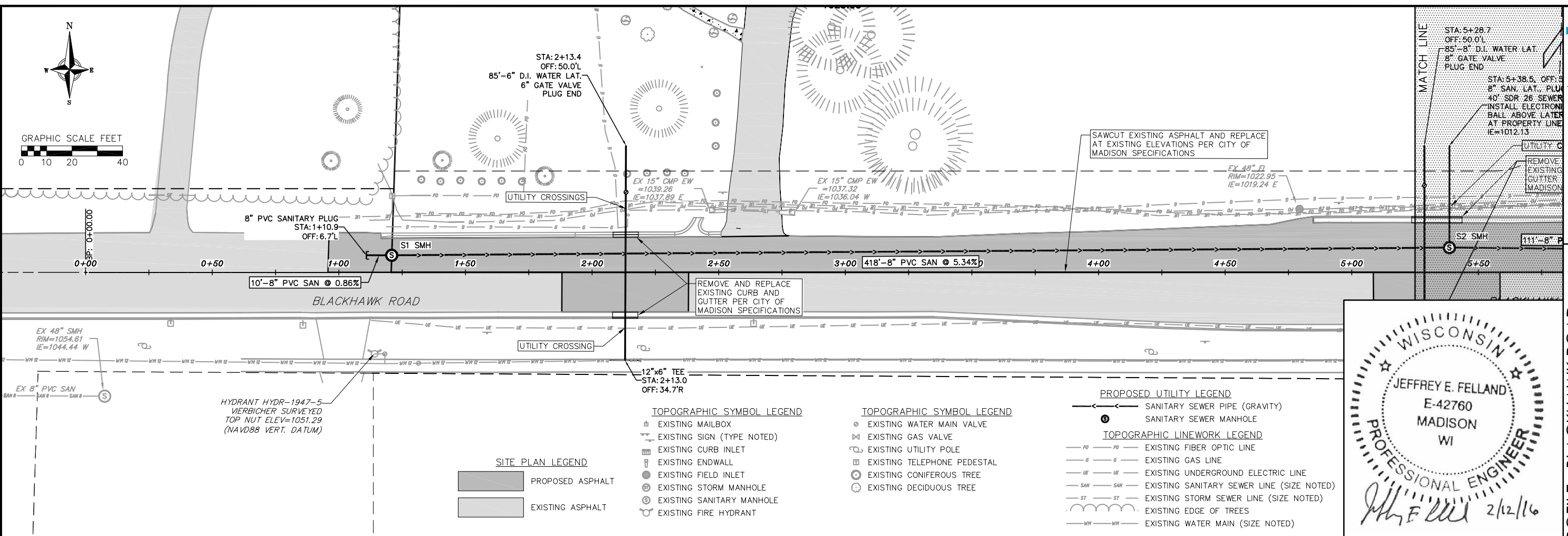
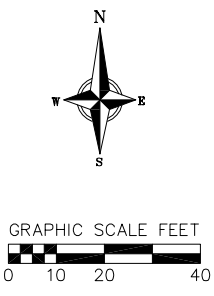
 planners | engineers | advisors

EROSION CONTROL PLAN
 2016 BLACKHAWK ROAD SANITARY EXTENSION
 CITY OF MIDDLETON
 DANE COUNTY, WISCONSIN

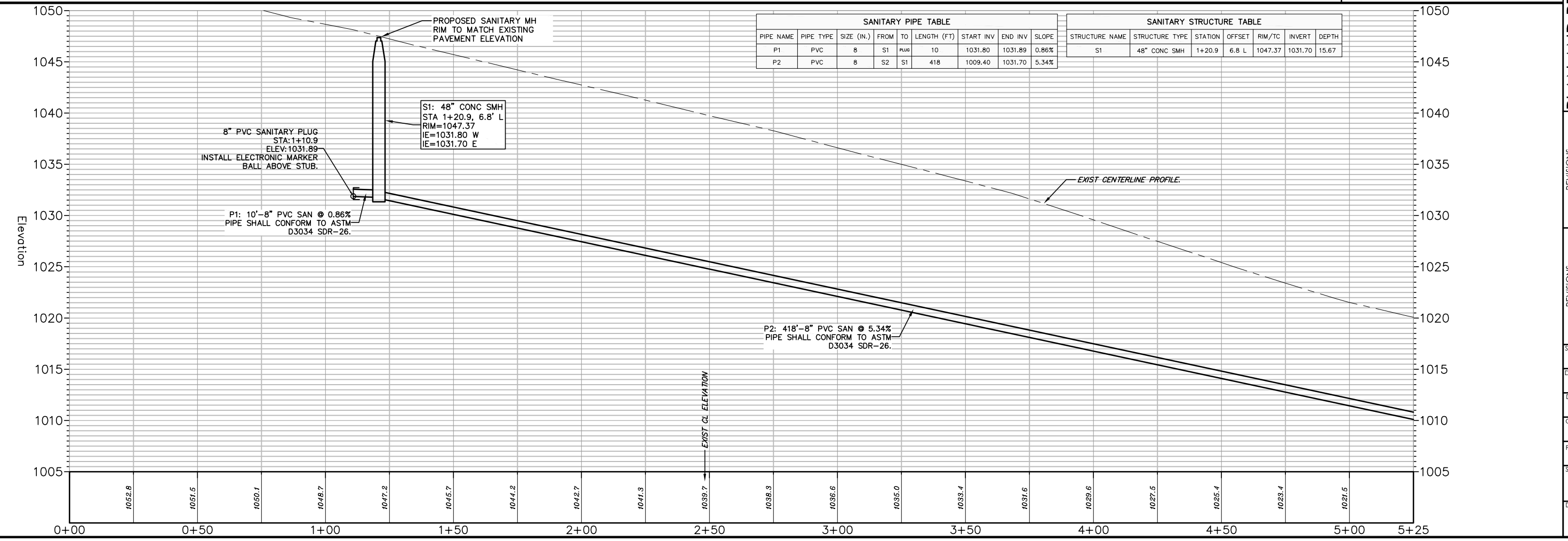
NO.	DATE	REVISIONS	REMARKS

SCALE AS SHOWN
 DATE 2/12/2016
 DRAFTER CGUY
 CHECKED JDOY
 PROJECT NO. 140176
 SHEET 1 OF 3
 DWG. NO. C-1.0

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- TOPOGRAPHIC SYMBOL LEGEND**
- EXISTING MAILBOX
 - EXISTING SIGN (TYPE NOTED)
 - EXISTING CURB INLET
 - EXISTING ENDWALL
 - EXISTING FIELD INLET
 - EXISTING STORM MANHOLE
 - EXISTING SANITARY MANHOLE
 - EXISTING FIRE HYDRANT
- TOPOGRAPHIC SYMBOL LEGEND**
- EXISTING WATER MAIN VALVE
 - EXISTING GAS VALVE
 - EXISTING UTILITY POLE
 - EXISTING TELEPHONE PEDESTAL
 - EXISTING CONIFEROUS TREE
 - EXISTING DECIDUOUS TREE
- PROPOSED UTILITY LEGEND**
- SANITARY SEWER PIPE (GRAVITY)
 - SANITARY SEWER MANHOLE
- TOPOGRAPHIC LINEWORK LEGEND**
- EXISTING FIBER OPTIC LINE
 - EXISTING GAS LINE
 - EXISTING UNDERGROUND ELECTRIC LINE
 - EXISTING SANITARY SEWER LINE (SIZE NOTED)
 - EXISTING STORM SEWER LINE (SIZE NOTED)
 - EXISTING EDGE OF TREES
 - EXISTING WATER MAIN (SIZE NOTED)
- SITE PLAN LEGEND**
- PROPOSED ASPHALT
 - EXISTING ASPHALT



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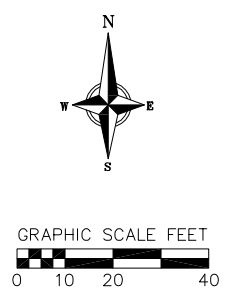
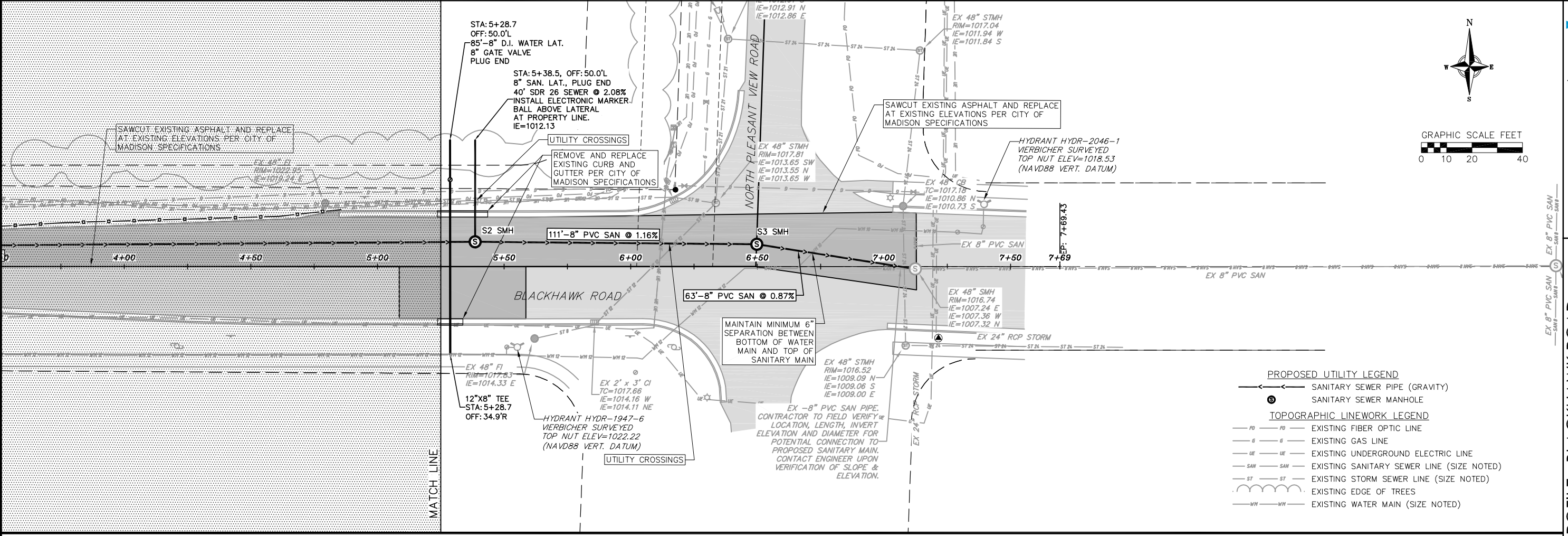
PLAN AND PROFILE - BLACKHAWK ROAD
 2016 BLACKHAWK ROAD SANITARY EXTENSION
 CITY OF MIDDLETON
 DANE COUNTY, WISCONSIN

REVISIONS	NO.	DATE	REMARKS

SCALE AS SHOWN

DATE: 2/12/2016
 DRAFTER: JFEL
 CHECKED: JDOY

PROJECT NO. 140176
 SHEET 2 OF 3
 DWG. NO. C-2.0



- PROPOSED UTILITY LEGEND**
- SANITARY SEWER PIPE (GRAVITY)
 - ⊙ SANITARY SEWER MANHOLE
- TOPOGRAPHIC LINEWORK LEGEND**
- FO — FO — EXISTING FIBER OPTIC LINE
 - G — G — EXISTING GAS LINE
 - UE — UE — EXISTING UNDERGROUND ELECTRIC LINE
 - SAN — SAN — EXISTING SANITARY SEWER LINE (SIZE NOTED)
 - ST — ST — EXISTING STORM SEWER LINE (SIZE NOTED)
 - — — EXISTING EDGE OF TREES
 - — — EXISTING WATER MAIN (SIZE NOTED)

TOPOGRAPHIC SYMBOL LEGEND

- ⊙ EXISTING WATER MAIN VALVE
- ⊗ EXISTING GAS VALVE
- ⊕ EXISTING UTILITY POLE
- ⊞ EXISTING TELEPHONE PEDESTAL
- ⊙ EXISTING CONIFEROUS TREE
- ⊙ EXISTING DECIDUOUS TREE
- ⊕ EXISTING MAILBOX
- ⊕ EXISTING SIGN (TYPE NOTED)
- ⊕ EXISTING CURB INLET
- ⊕ EXISTING ENDWALL
- ⊙ EXISTING FIELD INLET
- ⊙ EXISTING STORM MANHOLE
- ⊙ EXISTING SANITARY MANHOLE
- ⊕ EXISTING FIRE HYDRANT

SITE PLAN LEGEND

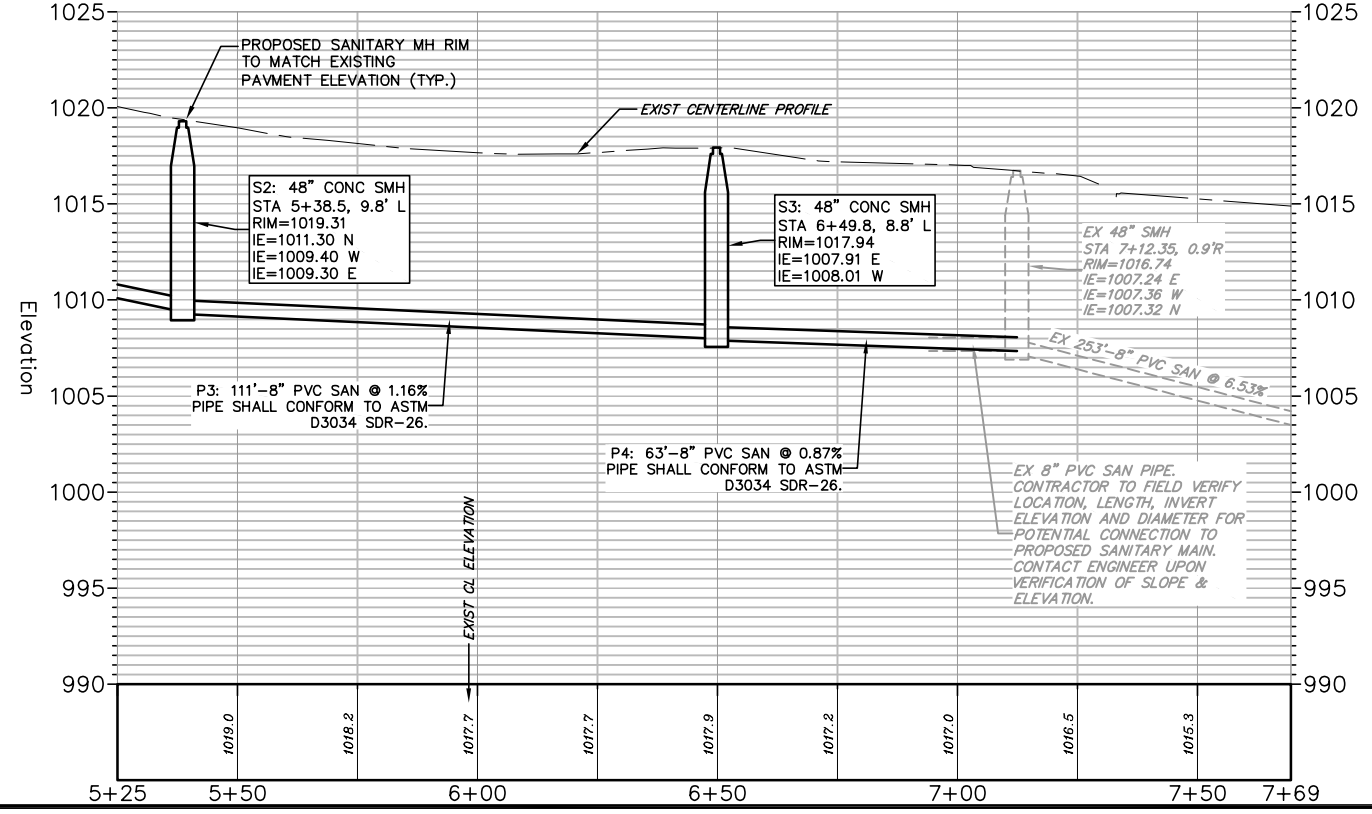
- ▒ PROPOSED ASPHALT
- ▒ EXISTING ASPHALT

SANITARY PIPE TABLE

PIPE NAME	PIPE TYPE	SIZE (IN.)	FROM	TO	LENGTH (FT)	START INV	END INV	SLOPE
P3	PVC	8	S3	S2	111	1008.01	1009.30	1.16%
P4	PVC	8	EX MH	S3	63	1007.36	1007.91	0.87%

SANITARY STRUCTURE TABLE

STRUCTURE NAME	STRUCTURE TYPE	STATION	OFFSET	RIM/TC	INVERT	DEPTH
S2	48" CONC SMH	5+38.5	9.8 L	1019.31 / 1009.30	1009.30	10.01
S3	48" CONC SMH	6+49.8	8.8 L	1017.94 / 1007.91	1007.91	10.03



REVISIONS	NO.	DATE	REMARKS

SCALE AS SHOWN

DATE 2/12/2016

DRAFTER JFEL

CHECKED

PROJECT NO. 140176

SHEET 3 OF 3

DWG. NO. C-3.0