CONSTRUCTION PLANS

HIGH CROSSING 5TH ADDITION - OUTLOT 4 STORMWATER FACILITY

CITY OF MADISON, WISCONSIN

DIGGERS HOTLINE
Dial 811 or (800) 242-8511
www.DiggersHotline.com

THE LOCATION OF EXISTING UTILITIES, BOTH UNDERGROUND AND OVERHEAD ARE APPROXIMATE ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT, BEFORE COMMENCING WORK, AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.

CALL DIGGER'S HOTLINE
1-800-242-8511

SITE BENCHMARKS

1 — HYDRANT
TOP NUT
ELEV = 926.30

2 — HYDRANT
TOP NUT
ELEV = 904.00

SHEET NO.	DESCRIPTION
C1	TITLE SHEET
C2	NOTES AND LEGENDS
C3	EXISTING CONDITIONS AND DEMOLITION PLAN
C4	OVERALL GRADING AND EROSION CONTROL PLAN
C5.1–C5.2	GRADING AND EROSION CONTROL DETAILS
C6–C8	CONSTRUCTION DETAILS
L1	LANDSCAPE PLAN

ISSUED DATE: 03/13/2020

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Title Sheet
High Crossing 5th Addition - Outlot 4 Stormwater Facility
City of Madison
Dane County, Wisconsin

REVISIONS

NO.	DATE	REMARKS
1	3/20/20	ADDENDUM NO. 1
2	3/26/20	ADDENDUM NO. 2

SCALE: AS SHOWN
DATE: 3/26/2020
DRAFTER: BBAR
CHECKED: NBOW
PROJECT NO.: 190337

C
1

TOPOGRAPHIC SYMBOL LEGEND

- EXISTING BOLLARD
- EXISTING FLAG POLE
- EXISTING MAILBOX
- EXISTING MONITORING WELL
- EXISTING POST
- EXISTING SIGN (TYPE NOTED)
- EXISTING PARKING METER
- EXISTING CURB INLET
- EXISTING ENDWALL
- EXISTING FIELD INLET RECTANGULAR
- EXISTING FIELD INLET
- EXISTING ROOF DRAIN CLEANOUT
- EXISTING ROOF DRAIN
- EXISTING STORM MANHOLE
- EXISTING STORM MANHOLE RECTANGULAR
- EXISTING SANITARY CLEANOUT
- EXISTING SANITARY MANHOLE
- EXISTING SEPTIC VENT
- EXISTING FIRE HYDRANT
- EXISTING FIRE DEPARTMENT CONNECTION
- EXISTING WATER MAIN VALVE
- EXISTING CURB STOP
- EXISTING WELL
- EXISTING WATER MANHOLE
- EXISTING GAS VALVE
- EXISTING GAS METER
- EXISTING AIR CONDITIONING PEDESTAL
- EXISTING DOWN GUY
- EXISTING ELECTRIC MANHOLE
- EXISTING ELECTRIC RECTANGULAR MANHOLE
- EXISTING ELECTRIC PEDESTAL
- EXISTING TRANSFORMER
- EXISTING ELECTRIC METER
- EXISTING GUY POLE
- EXISTING LIGHT POLE
- EXISTING GENERIC LIGHT
- EXISTING UTILITY POLE
- EXISTING TV MANHOLE
- EXISTING TV RECTANGULAR MANHOLE
- EXISTING TV PEDESTAL
- EXISTING TELEPHONE MANHOLE
- EXISTING TELEPHONE PEDESTAL
- EXISTING UNIDENTIFIED MANHOLE
- EXISTING UNIDENTIFIED UTILITY VAULT
- EXISTING HANDICAP PARKING
- EXISTING TRAFFIC SIGNAL
- EXISTING SHRUB
- EXISTING CONIFEROUS TREE
- EXISTING DECIDUOUS TREE
- EXISTING BORING

TOPOGRAPHIC LINEWORK LEGEND

- EXISTING UNDERGROUND CABLE TV
- EXISTING OVERHEAD CABLE TV
- EXISTING FIBER OPTIC LINE
- EXISTING OVERHEAD TELEPHONE LINE
- EXISTING UNDERGROUND TELEPHONE
- EXISTING RETAINING WALL
- EXISTING CHAIN LINK FENCE
- EXISTING GENERAL FENCE
- EXISTING WIRE FENCE
- EXISTING WOOD FENCE
- EXISTING GAS LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING GUY LINE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING OVERHEAD GENERAL UTILITIES
- EXISTING SANITARY FORCE MAIN (SIZE NOTED)
- EXISTING SANITARY SEWER LINE (SIZE NOTED)
- EXISTING STORM SEWER LINE (SIZE NOTED)
- EXISTING EDGE OF TREES
- EXISTING WATER MAIN (SIZE NOTED)
- EXISTING WETLAND DELINEATION
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR

SITE PLAN LEGEND

- PROPERTY BOUNDARY
- CURB AND GUTTER (REVERSE CURB HATCHED)
- PROPOSED CHAIN LINK FENCE
- PROPOSED WOOD FENCE
- PROPOSED CONCRETE
- PROPOSED LIGHT-DUTY ASPHALT
- PROPOSED HEAVY-DUTY ASPHALT
- PROPOSED SIGN
- PROPOSED LIGHT POLE
- PROPOSED BOLLARD
- PROPOSED ADA DETECTABLE WARNING FIELD
- PROPOSED HANDICAP PARKING

ABBREVIATIONS

TC – TOP OF CURB
FF – FINISHED FLOOR
FL – FLOW LINE
SW – TOP OF WALK
TW – TOP OF WALL
BW – BOTTOM OF WALL

PROPOSED UTILITY LEGEND

- STORM SEWER PIPE
- STORM SEWER MANHOLE
- STORM SEWER ENDWALL
- STORM SEWER CURB INLET
- STORM SEWER CURB INLET W/MANHOLE
- STORM SEWER FIELD INLET
- ROOF DRAIN CLEANOUT
- SANITARY SEWER PIPE (GRAVITY)
- SANITARY SEWER PIPE (FORCE MAIN)
- SANITARY SEWER LATERAL PIPE
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- WATER MAIN
- WATER SERVICE LATERAL PIPE
- FIRE HYDRANT
- WATER VALVE
- CURB STOP
- WATER VALVE MANHOLE
- PROPOSED PIPE INSULATION
- GAS MAIN
- ELECTRIC SERVICE

ABBREVIATIONS

STMH – STORM MANHOLE
FI – FIELD INLET
CI – CURB INLET
CB – CATCH BASIN
EW – ENDWALL
SMH – SANITARY MANHOLE

GRADING LEGEND

- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- PROPOSED MAJOR CONTOURS
- PROPOSED MINOR CONTOURS
- DITCH CENTERLINE
- SILT FENCE
- DISTURBED LIMITS
- BERM
- DRAINAGE DIRECTION
- PROPOSED SLOPE ARROWS
- EXISTING SPOT ELEVATIONS
- PROPOSED SPOT ELEVATIONS
- STONE WEEPER
- VELOCITY CHECK
- INLET PROTECTION
- EROSION MAT CLASS 1 TYPE A URBAN
- EROSION MAT CLASS II TYPE A
- TRACKING PAD
- RIP RAP

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1-800-242-8511

GENERAL NOTES:

1. INSTALL A 50'L X 20'W X 1.5'D TRACKING PAD AT THE SITE ENTRANCE. THE TRACKING PAD SHALL BE MAINTAINED/REPAIRED AS NECESSARY TO ACCOMMODATE CONSTRUCTION.
2. 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. ALL MAINTENANCE/REPAIR WILL FOLLOW AN INSPECTION WITHIN 24 HOURS.
3. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED DURING CONSTRUCTION TO PUBLIC PROPERTY, PRIVATE PROPERTY OR UTILITIES.
4. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW BY THE ENGINEER, PRIOR TO PLACING AN ORDER OF ANY SUCH ITEM.
5. EXISTING TOPOGRAPHIC INFORMATION IS BASED ON FIELD OBSERVATIONS AND/OR PLAN OF RECORD DRAWINGS. CONTRACTOR SHALL VERIFY TOPOGRAPHIC INFORMATION PRIOR TO STARTING CONSTRUCTION.
6. CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING SANITARY SEWER, STORM SEWER AND WATER MAIN PRIOR TO CONSTRUCTION TO ENSURE PROPER CLEARANCE OF THE NEW UTILITIES. CONTRACTOR MUST TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES DURING CONSTRUCTION. ANY DAMAGE TO THE EXISTING UTILITIES AND ANY REPAIRS NEEDED AS A RESULT OF THE DAMAGE SHALL BE AT THE EXPENSE OF THE CONTRACTOR REGARDLESS OF THE LOCATION MARKED IN THE FIELD OR SHOWN ON THE PLANS.
7. THE CONTRACTOR SHALL REMOVE ANY SEDIMENT TRACKED ONTO ADJACENT ROADS BY MEANS OF STREET SWEEPING (NOT FLUSHING) AT A MINIMUM OF THE END OF EACH WORK DAY OR MORE AS NEEDED.
8. RIGHT OF WAY (ROW) AND PROPERTY LINES ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING PROPERTY CORNER MONUMENTATION. ANY MONUMENTS DISTURBED BY CONTRACTOR SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
9. CONTRACTOR SHALL COORDINATE WITH DRY UTILITY COMPANY'S REGARDING ANY POTENTIAL CONFLICTS AND COORDINATE RELOCATIONS AS MAY BE REQUIRED. CONTRACTOR SHALL ALSO COORDINATE THE PROPOSED INSTALLATION OF NEW FACILITIES AS REQUIRED.
10. ALL EXCESS MATERIAL FROM BASIN CUT SHALL BE HAULED, PLACED, AND COMPACTED IN THE STOCKPILE LOCATION EAST OF CITY VIEW DRIVE AS NOTED ON THE PLANS. EXISTING PIPE TO BE REMOVED SHALL BE HAULED OFF SITE AND NOT BE PLACED IN THE STOCKPILE LOCATION.

UTILITY NOTES:

1. STORM SEWER LENGTHS SHOWN ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. STORM SEWER END SECTIONS ARE INCLUDED IN THE LENGTH AND SLOPE OF THE PIPE.
2. CONTRACTOR SHALL INVESTIGATE ALL UTILITY CROSSINGS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY CONFLICTS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL UTILITY STRUCTURES (MANHOLE RIMS, WATER VALVES, AND CURB STOPS), IF NECESSARY.
4. CONTRACTOR SHALL OBTAIN ANY NECESSARY WORK IN RIGHT-OF WAY, EXCAVATION, UTILITY CONNECTION, PLUGGING, ABANDONMENT, AND DRIVEWAY CONNECTION PERMITS PRIOR TO CONSTRUCTION.
5. IF DEWATERING OPERATIONS EXCEED 70 GALLONS PER MINUTE OF PUMPING CAPACITY, A DEWATERING WELL PERMIT SHALL BE OBTAINED FROM THE DEPARTMENT PRIOR TO STARTING ANY DEWATERING ACTIVITIES.
6. A COPY OF THE APPROVED UTILITY PLANS, SPECIFICATIONS AND PLUMBING PERMIT APPROVAL LETTER SHALL BE ON-SITE DURING CONSTRUCTION AND OPEN TO INSPECTION BY AUTHORIZED REPRESENTATIVES OF THE DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES AND OTHER LOCAL INSPECTORS.
7. NO PERSON MAY ENGAGE IN PLUMBING WORK IN THE STATE UNLESS LICENSED TO DO SO BY THE DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES PER S.145.06.
8. CONTRACTOR SHALL FIELD VERIFY THE SIZE, TYPE, LOCATION, AND ELEVATION OF EXISTING UTILITIES PRIOR TO INSTALLING ANY ON-SITE UTILITIES OR STRUCTURES. CONTACT ENGINEER PRIOR TO INSTALLATION IF DISCREPANCY EXISTS WITHIN THESE PLANS.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE RELOCATION OF ANY UTILITIES ENCOUNTERED AND REPLACEMENT OF ANY UTILITIES DAMAGED WITHIN INFLUENCE ZONE OF NEW CONSTRUCTION. CONTACT ENGINEER IF THE EXISTING UTILITIES VARY APPRECIABLY FROM THE PLANS.
10. CLEAN OUT ALL EXISTING AND PROPOSED STORM INLETS AND CATCH BASINS AT THE COMPLETION OF CONSTRUCTION.

AGENCIES:

EMERGENCY – FIRE, RESCUE, AMBULANCE, POLICE
DIAL 911

UNITED STATES POST OFFICE
3902 MILWAUKEE ST
MADISON, WI 53714-9998
PHONE: 608-831-5501

MADISON POLICE DEPARTMENT
211 S. CARROL ST
MADISON, WI 53703
PHONE: 608-255-2345 NON-EMERGENCY

MADISON FIRE DEPARTMENT
30 W. MIFFLIN ST.
MADISON, WI 53703
PHONE: 608-266-4420 NON-EMERGENCY

MADISON METRO
1245 E. WASHINGTON AVE.
SUITE 201
MADISON, WI 53703
TIM SOBOTA
PHONE: 608-261-4289

UTILITIES:

MG&E (GAS)
HOLLY E. POWELL
133 BLAIR STREET
MADISON WI 53788
PHONE: 608-252-7214 (O)
608-359-5347 (C)

MG&E (ELECTRIC)
MARK GAUGER
PHONE: 608-252-1570 (O)
608-712-5345 (C)
MGAUGER@MGE.COM

CHARTER COMMUNICATIONS (CABLE TV)
2701 DANIELS STREET
MADISON, WI 53718
JON MARSCHKE
PHONE: 608-225-2479

TDS (TELEPHONE + FIBER)
1912 PARMENTER ST
MIDDLETON, WI 53562
JERRY MYERS
PHONE: 608-664-4404

CITY OF MADISON – CITY ENGINEER
CITY-COUNTY BUILDING, ROOM 115
210 MARTIN LUTHER KING JR. BOULEVARD
MADISON, WI 53703
ROBERT F. PHILLIPS, P.E.
PHONE: 608-266-4090

CITY OF MADISON – SANITARY AND STORM SEWER ENGINEER
CITY-COUNTY BUILDING, ROOM 115
210 MARTIN LUTHER KING JR. BOULEVARD
MADISON, WI 53703
GREG FRIES
PHONE: 608-267-1199

CITY OF MADISON – WATER UTILITY
119 EAST OLIN AVE.
MADISON, WI 53703
TOM HEIKKINEN, GENERAL MANAGER
PHONE: 608-266-4651

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planners | engineers | advisors
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Notes and Legends

High Crossing 5th Addition - Outlot 4 Stormwater Facility
City of Madison
Dane County, Wisconsin

REVISIONS
NO. DATE REMARKS

REVISIONS
NO. DATE REMARKS

SCALE
AS SHOWN

DATE
3/13/2020

DRAFTER
BBAR

CHECKED
NBOW

PROJECT NO.
190337

C
2

16 Mar 2020 - 3:55p M:\Investors Associated\190337_High Crossing Ol, 4 Stormwater\CADD\190337 - Title and Details.dwg by: bbar

NOTES:

1. This existing conditions map is not intended to be a property survey as defined in Chapter A-E 7 of the Wisconsin Administrative Code. The property lines shown on this map are based on found monumentation, surveys of record and are approximate.
2. All underground utilities have been located per markings placed on the ground or maps provided by the utilities (owners) and or their authorized representatives. Markings are per Digger's Hotline Tickets # 20170700998, # 20170701030, # 20170701050, # 20170701063, # 20170701082, # 20171108010 and # 20171208452. Water main shown per markings by City of Madison Water Utility AND City Utility Maps. Vierbicher does not warrant the locations marked or mapped by others.
3. Field work for this map was completed on 3-23-2017. Any physical changes after this date on the site within the survey limits are not reflected on this map.
4. This map is referenced to the Wisconsin County Coordinate System, Dane Zone (NAD 83). Elevations are referenced to North American Vertical Datum (NAVD 88). Field data was obtained using Robotic Total Station and GPS.
5. Sizes of public utilities are from City of Madison Utility Maps (GTWeb).

GRAPHIC SCALE FEET
0 25' 50' 100'

INTERSTATE HWY 90-94

LOT 69
LOT 68
LOT 67
LOT 66
LOT 65
LOT 64
LOT 57
LOT 56
LOT 55
LOT 54
LOT 53
OUTLOT 4

BC-69 ELEV 907.5'
BC-48 ELEV 925.1'
BC-70 ELEV 890.6'
BC-9
BC-49 ELEV 908.5'
BC-27 ELEV 894.6'
BC-10
BC-50 ELEV 891.6'
BC-11
BC-39 ELEV 915.4'
BC-37 ELEV 946.1'
BC-38 ELEV 944.5'
BC-28 ELEV 951.8'

REMOVE EXISTING RIP RAP
REMOVE EXISTING RIP RAP
LIMITS OF DISTURBANCE (TYP.)
EX RIP RAP (TYP.)
REMOVE EXISTING STORM SEWER PIPE, ENDWALLS AND STRUCTURE

IE=920.39 N
EX 48" SMH
RIM=932.67
IE=917.87 SE
IE=919.48 N
IE=917.98 W
EX 8" PVC SAN
EX 4" PVC SAN
80' R.O.W.
BENCHMARK
HYDRANT - TOP NUT
ELEV.=926.30
EX 8" PVC SAN
EX 48" SMH
RIM=908.47
IE=899.87 SE
IE=901.89 NW
IE=900.05 W
EX 4" PVC SAN
EX 48" SMH
RIM=902.92
IE=895.28 SW
IE=895.36 NW
IE=895.52 NE
EX 48" SMH
RIM=898.22
IE=888.82 SW
IE=891.03 NE

IE=874.95
EX 18" RCP EW
IE=877.32
EX 30" RCP EW
EX 42" ADS STORM
IE=876.48
EX 42" ADS EW
IE=895.62
EX 18" RCP EW
EX CONC STM
OUTFALL STRUCTURE
RIM=894.26
IE=883.16 SW
EX 10" PVC SAN
EX 10" PVC SAN
EX 48" SMH
RIM=882.62
IE=874.66 NE
IE=874.62 SW
EX 48" SMH
RIM=885.79
IE=876.62 SW
IE=878.74 NE
EX 10" PVC SAN
EX 10" PVC SAN
EX 96" SMH
RIM=881.96
IE=862.71 NE DROP
IE=862.31 N DROP
IE=874.14 NE
IE=862.23 SW
IE=868.76 N
IE=862.39 S
EX 10" PVC SAN

EDGE OF BRUSH
TREELINE
EX 8" PVC S
EX 48" SMH
RIM=919.42
IE=904.02 SW
IE=904.04 NE
BENCHMARK
HYDRANT - TOP NUT
ELEV.=904.00

SOO LINE RAILROAD

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Existing Conditions and Demolition Plan
High Crossing 5th Addition - Outlot 4 Stormwater Facility
City of Madison
Dane County, Wisconsin

REVISIONS NO.	DATE	REMARKS
1	3/20/20	ADDENDUM NO. 1
2	3/26/20	ADDENDUM NO. 2

SCALE: AS SHOWN
DATE: 3/26/2020
DRAFTER: BBAR
CHECKED: NBOW
PROJECT NO.: 190337

C
3

26 Mar 2020 - 2:50p M:\Investors Associated\190337_High Crossing Ol 4 Stormwater\CADD\190337 - Ex Con.dwg by: jgol

INTERSTATE HWY 90-94

LOT 69

LOT 68

LOT 67

LOT 66

LOT 65

LOT 64

LOT 58

LOT 57

LOT 56

LOT 55

LOT 54

LOT 53

OUTLOT 4

CITY VIEW DRIVE

SOO LINE RAILROAD

B-39 ELEV 901.5'

B-47 ELEV 926.2'

B-48 ELEV 925.1'

B-37 ELEV 916.1'

B-38 ELEV 944.5'

B-39 ELEV 915.4'

EROSION MAT CLASS III TYPE A ECRM

EROSION MAT CLASS III TYPE A ECRM

LIMITS OF DISTURBANCE (TYP.)

SILT FENCE (TYP.)

EROSION MAT CLASS I TYPE A URBAN

EROSION MAT CLASS III TYPE A ECRM

HEAVY RIP RAP

EROSION MAT CLASS III TYPE A ECRM

SEE SHEET C5.1 AND C8 FOR BASIN DETAIL

STONE WEEPER

EROSION MAT CLASS II TYPE A

SAS ACCESS ROAD PER CITY OF MADISON DETAIL. (SEE SHEET C7)

TRACKING PAD

EXCESS MATERIAL STOCKPILE LOCATION. SEE STOCKPILE GRADING AND EROSION CONTROL DETAIL SHEET.

EDGE OF BRUSH

GRAPHIC SCALE FEET
0 25' 50' 100'

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Overall Grading and Erosion Control Plan

High Crossing 5th Addition - Outlot 4 Stormwater Facility
City of Madison
Dane County, Wisconsin

REVISIONS			
NO.	DATE	REMARKS	
1	3/20/20	ADDENDUM NO. 1	
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SCALE: AS SHOWN
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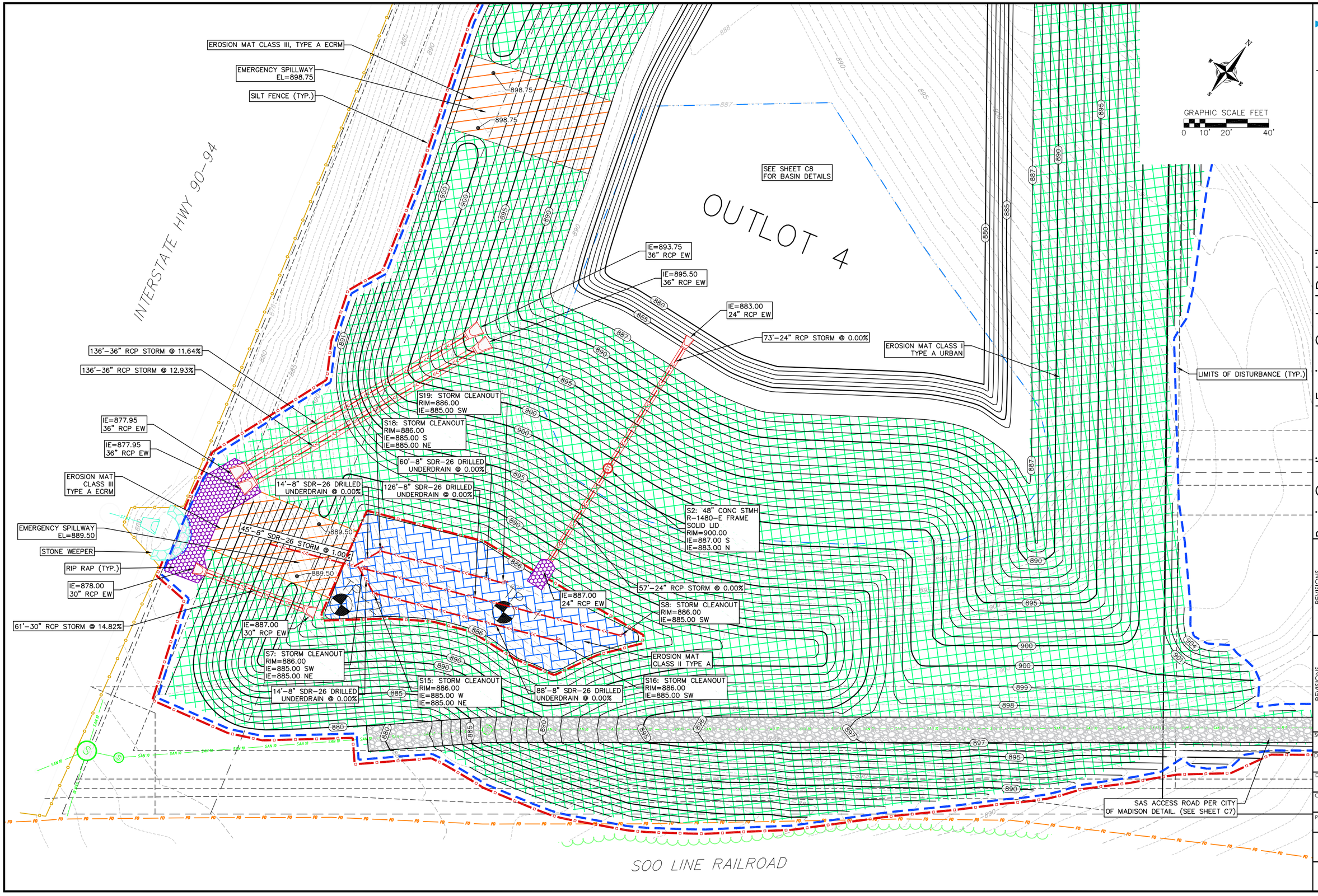
PROJECT NO.: 190337

C
4

26 Mar 2020 - 5:43p M:\Investors Associated\190337_High Crossing OL 4 Stormwater\CADD\190337 - Base Eng.dwg by: jgol



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Basin Grading and Erosion Control Detail

High Crossing 5th Addition - Outlot 4 Stormwater Facility
City of Madison
Dane County, Wisconsin

REVISIONS NO.	DATE	REMARKS

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SCALE: AS SHOWN
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CHECKED: NBOW
PROJECT NO.: 190337

C
5.1

LOT 58

LOT 57

LOT 56

LOT 55

LOT 54

LOT 53

B-37 ELEV 946'

B-38 ELEV 944.5'

B-36 ELEV 951.8'

CITY VIEW DRIVE

LIMITS OF DISTURBANCE (TYP.)

CLEAR AND GRUB TO LIMITS OF DISTURBANCE

REMOVE FENCE TO LIMITS OF DISTURBANCE

EROSION MAT CLASS I, TYPE A URBAN (TYP.)

STONE WEEPER (TYP.)

SILT FENCE (TYP.)

SLOPE INTERRUPTION (TYP.)

TRACKING PAD

TREELINE

EDGE OF BRUSH

GRAPHIC SCALE FEET
0 15' 30' 60'

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Stockpile Grading and Erosion Control Detail

High Crossing 5th Addition - Outlot 4 Stormwater Facility
City of Madison
Dane County, Wisconsin

REVISIONS			
NO.	DATE	REMARKS	
REVISIONS			
NO.	DATE	REMARKS	
2	3/26/20	ADDENDUM NO. 2	

SCALE
AS SHOWN

DATE
3/26/2020

DRAFTER
BBAR

CHECKED

PROJECT NO.
190337

C
5.2

EROSION CONTROL MEASURES

1. EROSION CONTROL SHALL BE IN ACCORDANCE WITH THE **CITY OF MADISON** EROSION CONTROL ORDINANCE AND CHAPTER NR 216 OF THE WISCONSIN ADMINISTRATIVE CODE.
2. 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.
3. INSTALL SEDIMENT CONTROL PRACTICES (TRACKING PAD, PERIMETER SILT FENCE, SEDIMENT BASINS, ETC.) PRIOR TO INITIATING OTHER LAND DISTURBING CONSTRUCTION ACTIVITIES.
4. 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.
5. 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.
6. A 3" CLEAR STONE TRACKING PAD SHALL BE INSTALLED AT THE END OF ROAD CONSTRUCTION LIMITS TO PREVENT SEDIMENT FROM BEING TRACKED ONTO THE ADJACENT PAVED PUBLIC ROADWAY. SEDIMENT TRACKING PAD SHALL CONFORM TO WisDNR TECHNICAL STANDARD 1057. SEDIMENT REACHING THE PUBLIC ROAD SHALL BE REMOVED BY STREET CLEANING (NOT HYDRAULIC FLUSHING) BEFORE THE END OF EACH WORK DAY.
7. CHANNELIZED RUNOFF: FROM ADJACENT AREAS PASSING THROUGH THE SITE SHALL BE DIVERTED AROUND DISTURBED AREAS.
8. 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.
9. SITE DE-WATERING: WATER PUMPED FROM THE SITE SHALL BE TREATED BY TEMPORARY SEDIMENTATION BASINS OR OTHER APPROPRIATE CONTROL MEASURES. SEDIMENTATION BASINS SHALL HAVE A DEPTH OF AT LEAST 3 FEET, BE SURROUNDED BY SNOWFENCE OR EQUIVALENT BARRIER AND HAVE SUFFICIENT SURFACE AREA TO PROVIDE A SURFACE SETTLING RATE OF NO MORE THAN 750 GALLONS PER SQUARE FOOT PER DAY AT THE HIGHEST DEWATERING PUMPING RATE. 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 (DE-WATERING).
10. WASHED STONE WEEPERS OR TEMPORARY EARTH BERMS SHALL BE BUILT PER PLAN BY CONTRACTOR TO TRAP SEDIMENT OR SLOW THE VELOCITY OF STORM WATER.
11. SEE DETAIL SHEETS FOR RIP-RAP SIZING. IN NO CASE WILL RIP-RAP BE SMALLER THAN 3" TO 6".
12. 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 **CLIENT** HAS ACCEPTED THE BINDER COURSE OF ASPHALT.
13. USE DETENTION BASINS AS SEDIMENT BASINS DURING CONSTRUCTION (DO NOT USE INFILTRATION AREAS). AT THE END OF CONSTRUCTION, REMOVE SEDIMENT AND RESTORE PER PLAN.
14. RESTORATION (SEED, FERTILIZE AND MULCH) SHALL BE PER SPECIFICATIONS ON THIS SHEET UNLESS SPECIAL RESTORATION IS CALLED FOR ON THE LANDSCAPE PLAN OR THE DETENTION BASIN DETAIL SHEET.
15. TERRACES SHALL BE RESTORED WITH 6" TOPSOIL, PERMANENT SEED, FERTILIZER AND MULCH. LOTS SHALL BE RESTORED WITH 6" TOPSOIL, TEMPORARY SEED, FERTILIZER AND MULCH.
16. AFTER DETENTION BASIN GRADING IS COMPLETE, THE BOTTOM OF DRY BASINS SHALL RECEIVE 6" TOPSOIL AND SHALL BE CHISEL-PLOWED TO A MINIMUM DEPTH OF 12" PRIOR TO RESTORATION.
17. 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.
18. 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 SEEDED AND MULCHED AREAS WHENEVER 7 DAYS ELAPSE WITHOUT A RAIN EVENT.
19. EROSION MAT (CLASS I, TYPE A URBAN PER WISCONSIN D.O.T. P.A.L.) SHALL BE INSTALLED ON ALL SLOPES 3:1 OR GREATER BUT LESS THAN 1:1.
20. EROSION MAT (CLASS I, TYPE B URBAN PER WISCONSIN D.O.T. P.A.L.) SHALL BE INSTALLED ON THE BOTTOM (INVERT) OF ROADSIDE DITCHES/SWALES AS SHOWN ON THIS PLAN, 1 ROLL WIDTH.
21. 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.
22. SILT FENCE OR EROSION MAT SHALL BE INSTALLED ALONG THE CONTOURS AT 100 FOOT INTERVALS DOWN THE SLOPE ON THE DISTURBED SLOPES STEEPER THAN 5% AND MORE THAN 100 FEET LONG THAT SHEET FLOW TO THE ROADWAY UNLESS SOIL STABILIZERS ARE USED.
23. SILT FENCE TO BE USED ACROSS AREAS OF THE LOT THAT SLOPE TOWARDS A PUBLIC STREET OR WATERWAY. SEE DETAILS.
24. SEDIMENT SHALL BE CLEANED FROM CURB AND GUTTER AFTER EACH RAINFALL AND PRIOR TO PROJECT ACCEPTANCE.
25. ACCUMULATED CONSTRUCTION SEDIMENT SHALL BE REMOVED FROM ALL PERMANENT BASINS TO THE ELEVATION SHOWN ON THE GRADING PLAN FOLLOWING THE STABILIZATION OF DRAINAGE AREAS.
26. 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.
27. ANY PROPOSED CHANGES TO THE EROSION CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY DANE COUNTY LAND CONSERVATION OR PERMITTING MUNICIPALITY.
28. THE **CITY**, OWNER AND/OR ENGINEER MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES AT ANY TIME DURING CONSTRUCTION.

CONSTRUCTION SEQUENCE:

1. INSTALL EROSION CONTROL MEASURES
2. STRIP TOPSOIL
3. ROUGH GRADE SITE.
4. INSTALL STONE WEEPERS PER PLAN
5. CONSTRUCT UNDERGROUND UTILITIES
6. INSTALL INLET PROTECTION
7. RESTORE DISTURBED AREAS
8. REMOVE TRACKING PAD, SILT FENCE, INLET PROTECTION AND STONE WEEPERS MEASURES AFTER DISTURBED AREAS ARE RESTORED

SEEDING RATES:

TEMPORARY:
1. USE ANNUAL OATS AT 3.0 LB./1,000 S.F. FOR SPRING AND SUMMER PLANTINGS.
2. USE WINTER WHEAT OR RYE AT 3.0 LB./1,000 SF FOR FALL PLANTINGS STARTED

AFTER SEPTEMBER 15.

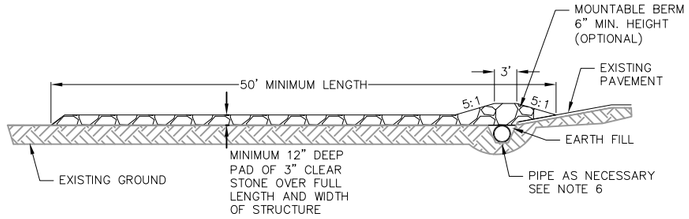
PERMANENT:
1. USE WISCONSIN D.O.T. SEED MIX #40 AT 2 LB./1,000 S.F.

FERTILIZING RATES:

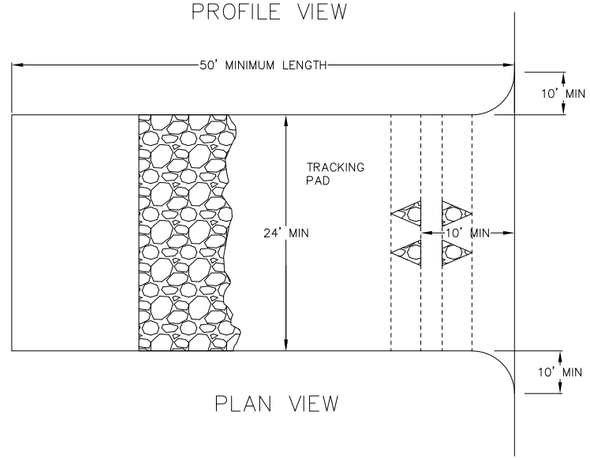
TEMPORARY AND PERMANENT:
USE WISCONSIN D.O.T. TYPE A OR B AT 7 LB./1,000 S.F.

MULCHING RATES:

TEMPORARY AND PERMANENT:
USE ½" TO 1-½" 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



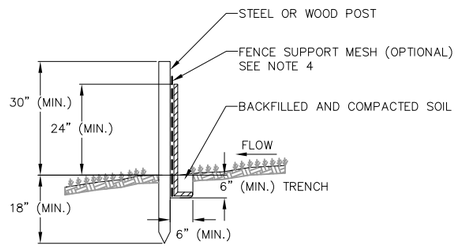
PROFILE VIEW



PLAN VIEW

1. FOLLOW WISCONSIN DNR TECHNICAL STANDARD 1057 FOR FURTHER DETAILS AND INSTALLATION.
2. LENGTH – MINIMUM OF 50'
3. WIDTH – 24' MINIMUM, SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
4. ON SITES WITH A HIGH GROUND WATER TABLE OR WHERE SATURATED CONDITIONS EXIST, GEOTEXTILE FABRIC SHALL BE PLACED OVER EXISTING GROUND PRIOR TO PLACING STONE. FABRIC SHALL BE WISDOT TYPE-HR GEOTEXTILE FABRIC.
5. STONE – CRUSHED 3" CLEAR STONE SHALL BE PLACED AT LEAST 12" DEEP OVER THE ENTIRE LENGTH AND WIDTH OF ENTRANCE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARDS CONSTRUCTION ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE. MAINTAINING POSITIVE DRAINAGE. PIPE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND MINIMUM OF 6" STONE OVER THE PIPE. PIPE SHALL BE SIZED ACCORDING TO THE DRAINAGE REQUIREMENTS. WHEN THE ENTRANCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY A PIPE SHALL NOT BE NECESSARY. THE MINIMUM PIPE DIAMETER SHALL BE 6". CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF SAID PIPE.
7. LOCATION – A STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED WHERE CONSTRUCTION TRAFFIC ENTERS AND/OR LEAVES THE CONSTRUCTION SITE. VEHICLES LEAVING THE SITE MUST TRAVEL OVER THE ENTIRE LENGTH OF THE TRACKING PAD.

1/1 TRACKING PAD
NOT TO SCALE



NOTES:

1. INSTALL SILT FENCE TO FOLLOW THE GROUND CONTOURS AS CLOSELY AS POSSIBLE.
2. CURVE THE SILT FENCE UP THE SLOPE TO PREVENT WATER FROM RUNNING AROUND THE ENDS.
3. POST SPACING WITH FENCE SUPPORT MESH = 10 FT. (MAX.)

   POST SPACING WITHOUT FENCE SUPPORT MESH = 6 FT. (MAX.)
4. SILT FENCE SUPPORT MESH CONSISTS OF 14-GAUGE STEEL WIRE WITH A MESH SPACING OF 6 IN. X 6 IN. OR PREFABRICATED POLYMERIC MESH OF EQUIVALENT STRENGTH

1/1 SILT FENCE
NOT TO SCALE

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Construction Details
High Crossing 5th Addition - Outlot 4 Stormwater Facility
City of Madison
Dane County, Wisconsin

REVISIONS
NO. DATE REMARKS

REVISIONS
NO. DATE REMARKS

SCALE: AS SHOWN
DATE: 3/13/2020
DRAFTER: BBAR
CHECKED: NBOW
PROJECT NO.: 190337

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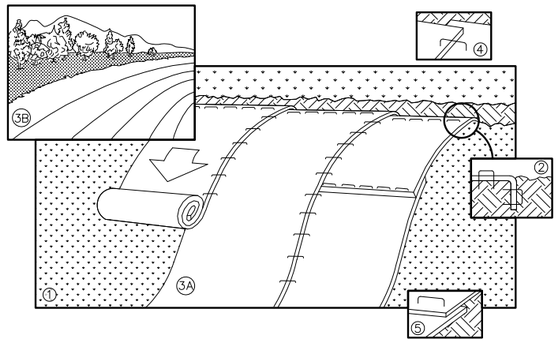
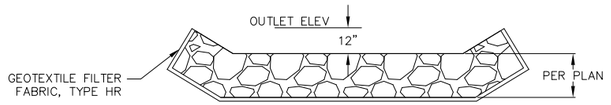


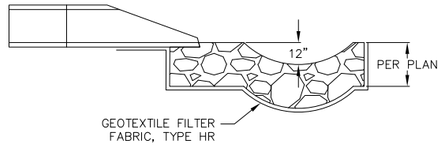
NOTE: REFER TO GENERAL STAPLE PATTERN GUIDE FOR CORRECT STAPLE PATTERN RECOMMENDATIONS FOR SLOPE INSTALLATIONS.

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF FERTILIZER AND SEED.
   NOTE: WHEN USING CELL-O-SEED, DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP BY 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. ROLL THE BLANKETS <A.> DOWN, OR <B.> HORIZONTALLY ACROSS THE SLOPE.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.
6. ALL BLANKETS MUST BE SECURELY FASTENED TO THE SLOPE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS RECOMMENDED BY THE MANUFACTURER.

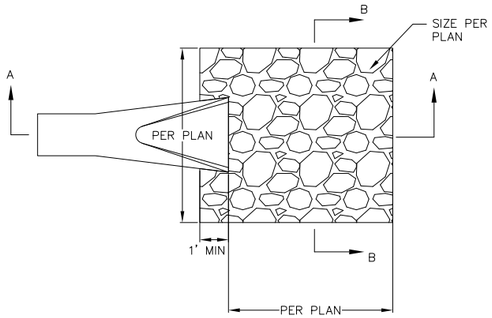
1/1 EROSION MAT
NOT TO SCALE



CROSS SECTION B-B



CROSS SECTION A-A



PLAN VIEW

1/1 RIP-RAP OUTLET
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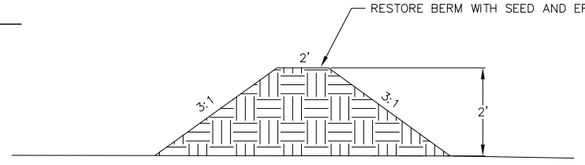

1/1 TEMPORARY BERM
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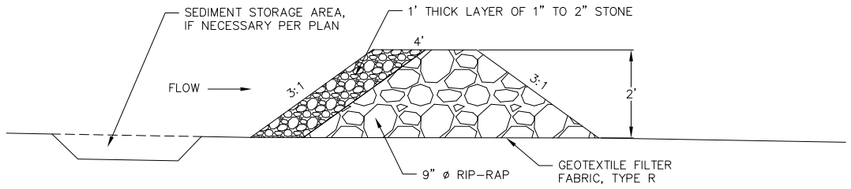
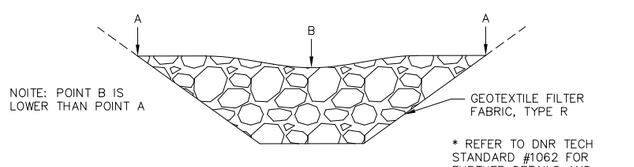


SECTION VIEW



FRONT VIEW

1/1 WEEPER
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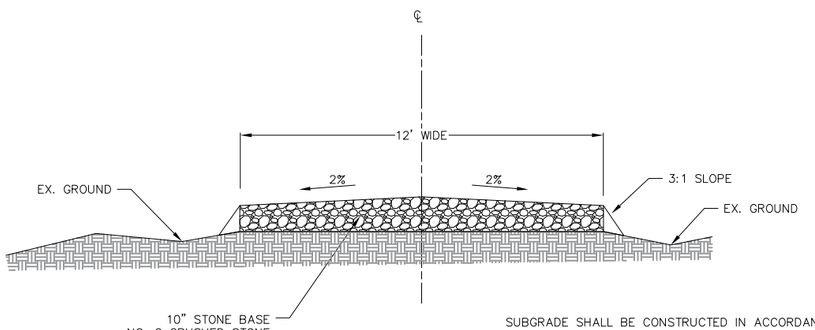

SUBGRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF MADISON SPECIFICATIONS

TERRACES AND SIDE SLOPES SHALL BE TOPSOILED, SEEDED, FERTILIZED AND MULCHED IN ACCORDANCE WITH THE SPECIFICATIONS

1/1 SAS ACCESS ROAD
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Construction Details
High Crossing 5th Addition - Outlot 4 Stormwater Facility
City of Madison
Dane County, Wisconsin

REVISIONS			
NO.	DATE	REMARKS	

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NO.	DATE	REMARKS	

SCALE: AS SHOWN
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INFILTRATION AREA SPECIFICATIONS:
INFILTRATION AREA MUST CONFORM TO WISCONSIN DNR TECHNICAL STANDARD 1003 (INFILTRATION BASIN).

HEAVY EQUIPMENT SHALL NOT BE ALLOWED ON AREA OF INFILTRATION DURING CONSTRUCTION OPERATIONS. INFILTRATION AREA MUST NOT BE CONSTRUCTED (INSTALLED) UNTIL THE SITE IS STABILIZED, I.E. THE GRASS COVER IS WELL ESTABLISHED; OTHERWISE, CONSTRUCTION SITE RUNOFF FROM DISTURBED AREAS SHALL BE DIVERTED AWAY FROM INFILTRATION DEVICE. DO NOT ALLOW SURROUNDING SOILS TO ERODE INTO BASINS ONCE ENGINEERED SOIL AND PLANTINGS HAVE BEEN INSTALLED.

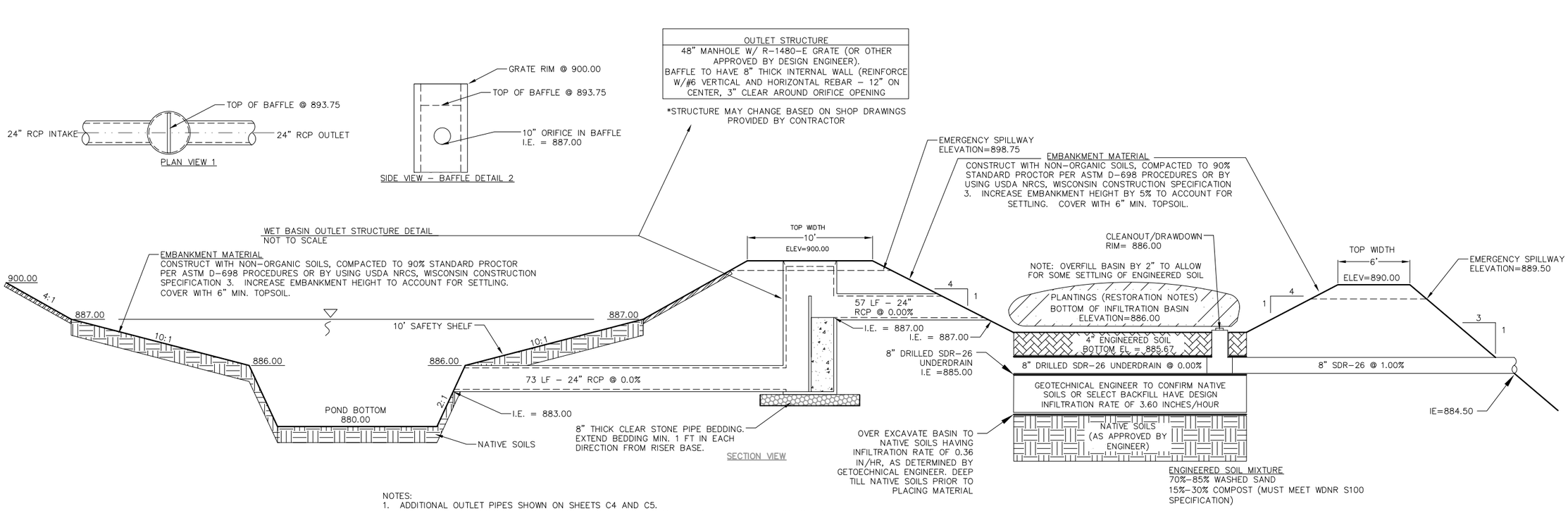
NATIVE SEEDING –NATIVE VEGETATION SHALL BE ESTABLISHED IN CONFORMANCE WITH RECOMMENDATIONS FROM A QUALIFIED NATIVE NURSERY IN THE AREA. IF TREES ARE TO BE USED, SPECIES SHALL BE SELECTED THAT WILL NOT INTERFERE WITH THE FUNCTION OF THE BASIN, OR CAUSE MAINTENANCE PROBLEMS.

CONTRACTOR IS RESPONSIBLE FOR PREPARING VEGETATION PLAN, ENSURING PLANT ESTABLISHMENT, INITIAL MAINTENANCE (SEE BELOW), AS WELL AS MAINTAINING PROPER INFILTRATION RATES OVER INFILTRATIVE SURFACE (I.E. NO PONDED WATER 24 HOURS AFTER RAIN EVENT) THROUGHOUT WARRANTY PERIOD AND ONE COMPLETE GROWING SEASON, OR UNTIL ACCEPTANCE BY THE OWNER (WHICHEVER IS SOONER).

RESTORATION AND INITIAL MAINTENANCE NOTES (DURING FIRST GROWING SEASON):
1. NATIVE (PRAIRIE) SEEDING SHALL BE COMPLETED IN THE FALL (AS DORMANT SEEDING PRIOR TO FIRST SNOWFALL) OR IN THE SPRING (BETWEEN MAY 1 AND JUNE 20), OR PLUGS SHALL BE USED.
2. FERTILIZER –SOIL TESTING SHALL BE USED TO DETERMINE PROPER APPLICATIONS FOR NUTRIENTS AND LIMING. FERTILIZER APPLICATION SHALL CONFORM TO THE CRITERIA LOCATED IN NRCS CONSERVATION PRACTICE STANDARD, CRITICAL AREA PLANTING (342) OR WDNR TECHNICAL STANDARD SEEDING FOR CONSTRUCTION SITE EROSION CONTROL (1059).
3. MULCH OR EROSION MAT –MULCH SHALL CONFORM TO THE CRITERIA LOCATED IN WDNR TECHNICAL STANDARD MULCHING FOR CONSTRUCTION SITES (1058). EROSION MAT SHALL BE CLASS II AND PLACED ON THE SURFACE OF THE INFILTRATION AREA.
4. WATER AS NECESSARY, DEPENDING ON WEATHER. RE–MULCH VOID AREAS, TREAT DISEASED OR DISTRESSED PLANTS, SPOT TREAT THE AREA WITH HERBICIDE TO REMOVE WEEDS, REMOVE DEBRIS AND LITTER, AND INSPECT AND REPAIR ERODED AREAS, AS NEEDED.

CONSTRUCTION NOTES (NOT INCLUDING SIDESLOPES):
1. OVER–EXCAVATE THE AREA TO INFILTRATIVE LAYER REQUIRED PER DETAIL. NATIVE LAYER OF DEVICE TO BE VISUALLY INSPECTED BY DESIGN ENGINEER IN THE FIELD AFTER THE AREA IS EXCAVATED.
2. CHISEL PLOW, OR ROTO–TILL THE BASE OF THE AREA TO BREAK UP ANY HARDPAN IN THE NATIVE SOIL LAYER.
3. PLACE GRANULAR FILL, DEPTH AS REQUIRED BY DETAIL, AND UNDERDRAIN COMPONENTS.
4. PLACE ENGINEERED SOIL IN MAXIMUM 12" LIFTS (OVERFILL BY 2" TO ALLOW FOR SETTLING), COMPRISED OF:
   70–85% WASHED SAND
   15–30% COMPOST (PER DNR TECHNICAL STANDARD S100)
5. SEED, MULCH/EROSION MAT, WATER, AND MAINTAIN AS DIRECTED ABOVE. LEAVE UNDERDRAIN DRAWDOWN OPEN UNTIL PLANT ESTABLISHMENT.

LONG–TERM MAINTENANCE OF INFILTRATION AREA:
1. REFER TO DNR TECHNICAL STANDARD 1003



NOTES:
1. ADDITIONAL OUTLET PIPES SHOWN ON SHEETS C4 AND C5.
2. CONTRACTOR TO PROCURE GEOTECHNICAL CONSULTANT TO CERTIFY NATIVE SOILS AT BOTTOM OF BASIN AND PROVIDE RESULTS TO ENGINEER.
3. SDR–26 UNDERDRAIN SHALL HAVE TEN ¼" TO ⅜" DIAMETER HOLES, APPROXIMATELY EVENLY SPACED AROUND THE CIRCUMFERENCE OF THE PIPE, WITH A ROW OF HOLES EVERY 6" LONGITUDINALLY, BEDDED IN CLEAR STONE AND WRAPPED IN GEOTEXTILE FABRIC.

1/1 WET POND/INFILTRATION FACILITY CROSS–SECTION
NOT TO SCALE

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Construction Details
High Crossing 5th Addition - Outlot 4 Stormwater Facility
City of Madison
Dane County, Wisconsin

REVISIONS
NO. DATE REMARKS
3/26/20 ADDENDUM NO. 2

SCALE AS SHOWN
DATE 3/26/2020
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PROJECT NO. 190337

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GRAPHIC SCALE FEET

0 20' 40' 80'

PLANT SCHEDULE

DECIDUOUS TREES	BOTANICAL / COMMON NAME	ROOT COND.	SIZE	QTY
QB	Quercus bicolor / Swamp White Oak	B & B	1.5" Cal	3
QM	Quercus macrocarpa / Burr Oak	B & B	1.5" Cal	2

SEEDING/PLUG PLANTING SCHEDULE

INFILTRATION PLUGS	5,159 sf
Asclepias incarnata / Swamp Milkweed	241
Carex bicknellii / Prairie Sedge	138
Carex comosa / Bottlebrush Sedge	103
Carex cristatella / Crested Oval Sedge	138
Carex lurida / Lurid Sedge	103
Coreopsis tripteris / Tall Coreopsis	241
Elymus virginicus / Virginia Wild Rye	412
Iris virginica / Blue Flag Iris	241
Liatris spicata / Spike Gayfeather	241
Lobelia cardinalis / Cardinal Flower	241
Panicum virgatum / Switch Grass	412
Rudbeckia triloba / Browneyed Susan	275
Spartina pectinata / Prairie Cordgrass	412
Symphyotrichum novae-angliae / New England Aster	241

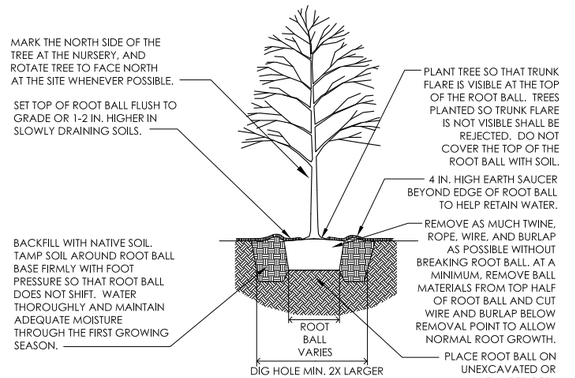
PRAIRIE SEEDING	188,942 sf
-	

GENERAL NOTES:

1. All plantings shall conform to quality requirements as per ANSI Z60.1.
2. All plant material shall be true to the species, variety and size specified, nursery grown in accordance with good horticultural practices, and under climactic conditions similar to those of the project site.
3. Contact Landscape Architect, in writing, to request and plant material substitutions due to availability issues.
4. Areas hatched as 'Prairie Seeding' to be seeded with Land Restoration Seed Mix for Medium Soils by Prairie Nursery, or equivalent, per manufacturer's specified application rates. Seed other disturbed areas with WI DOT Seed Mix #10 or equal
5. All plants shall be guaranteed to be in healthy and flourishing condition during the growing season following installation. All plant material shall be guaranteed for two years from the time of installation.
6. Contractor shall provide a suitable amended topsoil blend for all planting areas where soil conditions are unsuitable for plant growth. Topsoil shall conform to quality requirements as per Section 625.2(1) of the Standard Specifications for Highway Construction. Provide a minimum of 12" of topsoil in all tree planting areas and 4" of topsoil in areas to be seeded.
7. Install infiltration plugs 15" on center, dispersing species throughout planting area.

TREE PLANTING DETAIL

NOTES:
- DO NOT HEAVILY PRUNE TREE AT PLANTING. PRUNE ONLY CROSSING LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.
- STAKE TREES ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT.
- WRAP TREES ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT.



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Landscape Plan

High Crossing 5th Addition - Outlot 4 Stormwater Facility
City of Madison
Dane County, Wisconsin

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REVISIONS			
NO.	DATE	REMARKS	
1	3/20/20	ADDENDUM NO. 1	
2	3/26/20	ADDENDUM NO. 2	

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