

Scale: 0 15 30 60
Scale: 1" = 30'

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POINTS OF CONTACT	EROSION CONTROL LEGEND
<p>LAND OWNER: MIKE ABRAMS - DIRECTOR ICON VENUE GROUP 7300 CARMEL EXECUTIVE PARK, SUITE 325 CHARLOTTE, NC 28226 PHONE: (704) 909-4445</p> <p>PROJECT ENGINEER: THOMAS PEREZ, P.E. KAPUR & ASSOCIATES, INC 7711 NORTH PORT WASHINGTON ROAD MILWAUKEE, WI 53217 PHONE: (414) 351-8668</p> <p>CONSTRUCTION MANAGER: T.B.D.</p>	<p>ORANGE CONSTRUCTION FENCE</p> <p>SILT SOCK SEE DETAIL 1/C1-1C/G</p> <p>DESIGNATES PROPOSED INLETS THAT MUST BE PROTECTED AFTER THEY HAVE BEEN CONSTRUCTED. SEE DETAIL 3/C1-1C/G</p> <p>DESIGNATES EXISTING INLETS THAT MUST BE PROTECTED SEE DETAIL 3/C1-1C/G</p>

PERFORM ALL EROSION CONTROL MEASURES PRIOR TO COMMENCING GRADING, DRILLING OR OTHER LAND DISTURBING ACTIVITIES. EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF EVERY PRECIPITATION EVENT OF 0.50 INCH OR GREATER. IN ADDITION, THE CONTRACTOR SHALL CONDUCT DAILY INSPECTIONS AND DOCUMENT CONDITIONS AND REPAIRS MADE ALONG WITH DAILY TIME OF INSPECTION AND WEATHER CONDITIONS IN A DAILY LOG BOOK. THE DAILY LOG BOOK, WEEKLY / 0.50 INCH PRECIPITATION REPORTS, APPROVED PLANS AND WIPES SHALL BE KEPT IN AN ACCESSIBLE LOCATION, LIKE A WALLET, WITHIN THE STAGING AREA.
AT ABSOLUTELY NO TIME MAY CONSTRUCTION EQUIPMENT, DEBRIS, FILL, ETC. BE PLACED WITHIN WETLANDS, WATERWAYS OR FLOOD PLAINS UNLESS IDENTIFIED IN THE PLANS.



MILWAUKEE ARENA
1111 N. 4TH STREET
MILWAUKEE WI

DPD SUBMITTAL

REVISIONS

NO.	DATE	DESCRIPTION



PROJECT NUMBER: 15.4017
ISSUE DATE: 03.17.2016

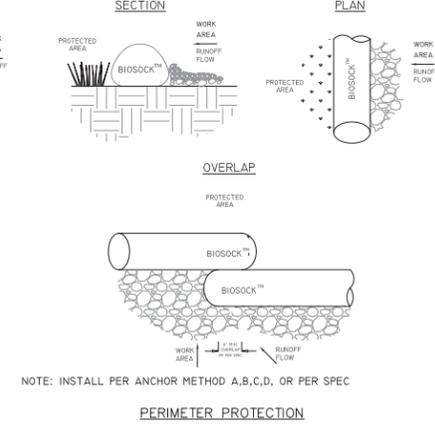
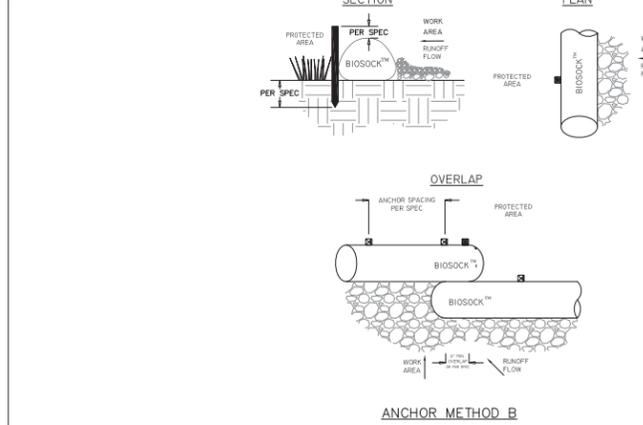
OVERALL SITE EROSION CONTROL PLAN

POPULOUS HNTB eua

SHEET
A1 - 11

EROSION CONTROL MEASURES

- CONTRACTOR TO INSTALL AND MAINTAIN EROSION CONTROL MEASURES AS INDICATED ON THIS PLAN AND PER THE LATEST REVISIONS. MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES SHALL BE REMOVED OR MODIFIED AS NECESSARY. MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES SHALL BE REMOVED OR MODIFIED AS NECESSARY.
 - INLETS AND CATCH BASINS SHALL BE PROTECTED WITH INLET FILTERS THAT ARE PHASED IN WITH CONSTRUCTION TO REDUCE SEDIMENT FROM ENTERING THESE AREAS PER MNR TECHNICAL STANDARD 1066 AS FOLLOWS:
 - ALL FABRIC BARRIERS SELECTED FOR INLET/CATCH BASIN PROTECTION DEVICES SHALL BE SELECTED FROM THE LIST OF APPROVED FABRICS CERTIFIED FOR INLET PROTECTION, GEOTEXTILE FABRIC TYPE FF IN THE CURRENT EDITION OF THE MNR TECHNICAL STANDARD 1066 ACCEPTABILITY LIST. TO OBTAIN THE FULL LIST PLEASE REFER TO THIS WEBSITE: <http://www.dnr.wisconsin.gov/business/engravers/epst.htm>
 - INLET PROTECTION SHALL BE AT A MINIMUM INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT OF 1/8 INCH OR GREATER DURING A 24-HOUR PERIOD.
 - PLACEMENT OF SPILL MATERIAL, DEBRIS, SOILS, ETC. ON TOP OF INLETS/CATCH BASINS, EVEN IF TEMPORARY, IS STRICTLY DISCOURAGED AND PROHIBITED.
 - SEDIMENT DEPOSITS SHALL BE REMOVED AND THE INLET PROTECTION DEVICES RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED BETWEEN 1/2 TO 3/4 THE DESIGN DEPTH OF THE DEVICE, OR WHEN THE DEVICE IS NO LONGER FUNCTIONING PER MANUFACTURER'S SPECIFICATIONS. ALL SEDIMENT COLLECTED SHALL BE PROPERLY DISPOSED OF TO PREVENT DISCHARGE INTO AREA WATERWAYS AND WETLANDS.
 - DUE CARE SHALL BE TAKEN TO ENSURE SEDIMENT DOES NOT FALL INTO THE INLET/CATCH BASIN AND IMPAIR THE INTENDED FUNCTION OF THE DEVICE. ANY MATERIAL FALLING INTO THE INLET/CATCH BASIN SHALL BE REMOVED AND PROPERLY DISPOSED OF PER NOTE D ABOVE.
 - INLET FILTERS MAY BE REMOVED AND PROPERLY DISPOSED OF UPON COMPLETION OF CONSTRUCTION, HAULING OR MOVEMENT OF CONSTRUCTION EQUIPMENT THROUGHOUT THE SITE, AND ONCE THE SITE IS ACCURATELY STABILIZED, UNLESS AS OTHERWISE NOTIFIED BY THE WORK.
3. A TRACKING PAD SHALL BE INSTALLED AS SHOWN ON THE PLAN SHEET PRIOR TO THE START OF CONSTRUCTION TO REDUCE SEDIMENT FROM THE SITE PER MNR TECHNICAL STANDARD 1057 AS FOLLOWS:
- A WOOD TYPE B GEOTEXTILE FABRIC SHALL BE USED TO PREVENT MIGRATION OF UNDERLYING SOIL INTO THE STONE.
 - AGGREGATE USED FOR TRACKING PADS SHALL BE 3 TO 6 INCH CLEAR OR WASHED STONE. ALL MATERIAL TO BE RETAINED BY 3 INCH SIEVE.
 - THE AGGREGATE SHALL BE PLACED IN A LAYER ON TOP OF THE TYPE B GEOTEXTILE FABRIC AT LEAST 12 INCHES THICK.
 - THE TRACKING PAD SHALL BE THE FULL WIDTH OF THE EXCESS POINT AND BE AT LEAST 50 FEET LONG.
 - VEHICLES TRAVELING ACROSS THE TRACKING PAD SHALL MAINTAIN A SLOW CONSTANT GRED.
 - ANY SEDIMENT OR ROCK ACCUMULATION ONTO LOCAL ROADWAYS SHALL BE REMOVED BY STREET CLEANING, NOT FLUSHING BEFORE THE END OF EACH WORKING DAY.
 - THE TRACKING PAD SHALL, AT A MINIMUM BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT OF 1/8 INCH OR GREATER. IN ADDITION, THE ACTIVE CONTRACTOR SHALL CONDUCT DAILY INSPECTIONS AND DOCUMENT CONDITIONS AND REPAIRS MADE, ALONG WITH DATE, TIME OF INSPECTION, AND WEATHER CONDITIONS IN A DAILY LOG BOOK.
 - THE TRACKING PAD PERFORMANCE SHALL BE MAINTAINED BY SCRAPING OR TOP-DRESSING WITH ADDITIONAL AGGREGATE.
 - A MINIMUM 12-INCH THICK PAD SHALL BE MAINTAINED.



NOTE: INSTALL PER ANCHOR METHOD A,B,C,D, OR PER SPEC

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EROSION CONTROL OPERATION SEQUENCE + SCHEDULE

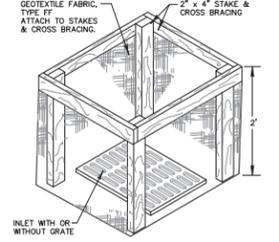
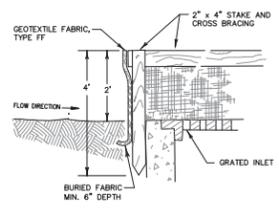
- AFTER BIDS ARE RECEIVED AND A MASS GRADING CONTRACTOR IS SELECTED, A PRE-CONSTRUCTION MEETING SHALL TAKE PLACE WITH ALL RELEVANT PARTIES IN ATTENDANCE.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL SILT SOCKS, SEEDING, EROSION MATTING, AND OTHER EROSION CONTROL MEASURES. GENERAL CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PRIOR TO COMMENCING GRADING, GRUBBING, OR OTHER LAND DISTURBING ACTIVITIES. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES SHALL BE REMOVED OR MODIFIED AS NECESSARY.
1. OBTAIN PLAN APPROVAL FROM THE CITY OF MILWAUKEE, AND ALL APPLICABLE PERMITS, INCLUDING EROSION CONTROL PERMIT.
2. CONSTRUCTION IS SCHEDULED TO BEGIN IN 2016, DEPENDING ON WEATHER & GROUND CONDITIONS.
3. A GRAVEL TRACKING PAD UNDERLAIN WITH WOOD TYPE B GEOTEXTILE FABRIC, SHALL BE INSTALLED AS SHOWN ON THE PLANS.
4. SILT SOCK, INLET FILTER PROTECTION, SHALL BE INSTALLED AS SHOWN ON THE PLANS, AND INSPECTED PRIOR TO COMMENCING OF ANY LAND DISTURBING ACTIVITIES PER PROJECT PLANS AND DETAILS.
5. SITE DEMOLITION OF PAVEMENT, ETC. WILL OCCUR AFTER ALL EROSION CONTROL MEASURES ARE IN PLACE.
6. CONSTRUCTION OF THE BUILDING, STARTING WITH THE FOUNDATION, WILL BEGIN IMMEDIATELY AFTER THE SITE DEMOLITION IS COMPLETE IN THE BUILDING PAD AREA.
7. TOPSOIL STRIPPING AND ROUGH GRADING WILL FOLLOW. TOPSOIL STOCKPILES WILL BE LOCATED AS SHOWN ON THE PLANS. STOCKPILES WILL BE USED FOR FINAL LANDSCAPING. REMAINING STOCKPILES WILL BE REMOVED FROM THE SITE.
8. UTILITY INSTALLATION WILL OCCUR NEXT AND CONTINUE UNTIL ALL THE UTILITIES ARE INSTALLED.
9. AFTER ROUGH GRADING IS COMPLETE IN AREAS OUTSIDE OF PROPOSED ROADWAYS, PARKING LOTS, BUILDINGS, AND ALL OTHER HARD SURFACE AREAS, THE TOPSOIL WILL BE REAPPLIED AND THE LANDSCAPE CONTRACTOR WILL COMPLETE SEEDING/SODDING/FERTILIZING/MULCHING AND INSTALL EROSION MATTING AS PER APPROVED PLANS AND SPECIFICATIONS.
10. FINAL SITE STABILIZATION IS ANTICIPATED FOLLOWING THE COMPLETION OF GRADING ACTIVITIES. IF SITE STABILIZATION CANNOT BE COMPLETED BY OCTOBER 1, THEN THE USE OF ANIONIC POLYACRYLAMIDE CONFORMING TO MNR TECHNICAL STANDARD 1055 SHALL BE USED.
11. AFTER ALL TOPSOIL HAS BEEN REAPPLIED AND STABILIZATION IS UNDERWAY, ROADWAY, PARKING LOT, AND SIDEWALK BASE MATERIAL WILL BE APPLIED PER PROJECT SPECIFICATIONS.
12. THE GENERAL CONTRACTOR WILL REQUEST A FINAL INSPECTION BY THE CITY. UPON APPROVAL, ALL SILT FENCES, INLET FILTER PROTECTION, AND TRIANGULAR SILT SOCKS SHALL BE REMOVED, AND ACCUMULATED SEDIMENT IN THE SEDIMENT BASIN/TORM WATER POND SHALL BE DREDGED AND PROPERLY DISPOSED OF. IN ADDITION, THE CONTRACTOR MUST INSURE THAT THE STONE WATER POND IS RETURNED TO THE SLOPES AND GRADES SHOWN ON THE PROJECT PLANS AND DETAILS.
13. IF REQUIRED, FINAL AS-BUILT SURVEYS ARE TO BE CONDUCTED BY THE OWNER AND FINAL DOCUMENTS FORWARDED TO THE CITY.
14. BARE SOIL LEFT UNDISTURBED FOR 14 CALENDAR DAYS MUST BE TEMPORARILY STABILIZED PER MNR TECHNICAL STANDARD 1055, OR TEMPORARY GRADING PRACTICES PER MNR TECHNICAL STANDARD 1067 MAY BE IMPLEMENTED. HOWEVER BY OCTOBER 1, THE SITE SHALL BE STABILIZED PER NOTE 12 ABOVE.
15. WE DO NOT ANTICIPATE THE NEED FOR WATERING WITH THIS CONSTRUCTION SCHEDULE, HOWEVER, IF ADEQUATE RAIN IS NOT EXPERIENCED WITHIN ONE WEEK AFTER INITIAL SEED GERMINATION AT ANY POINT DURING THE CONSTRUCTION PROCESS, WATER SHALL BE TRUCKED IN AND APPLIED ONCE PER WEEK.
- IF CONSTRUCTION SCHEDULES SHOULD CHANGE SIGNIFICANTLY, THIS PLAN NARRATIVE WILL BE UPDATED AND REVISITED BY THE GENERAL CONTRACTOR TO THE CITY AND WORK.

INSPECT ALL EROSION CONTROL MEASURES PRIOR TO COMMENCING GRADING, GRUBBING OR OTHER LAND DISTURBING ACTIVITIES. EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF EVERY PRECIPITATION EVENT OF 1/8 INCH OR GREATER. IN ADDITION, THE ACTIVE CONTRACTOR SHALL CONDUCT DAILY INSPECTIONS AND DOCUMENT CONDITIONS AND REPAIRS MADE, ALONG WITH DATE, TIME OF INSPECTION AND WEATHER CONDITIONS IN A DAILY LOG BOOK. WEEKLY 0.50 INCH PRECIPITATION REPORTS, APPROVED PLANS WPDES PERMITS & CHAPTER 30 PERMIT SHALL BE KEPT IN AN ACCESSIBLE LOCATION, LIKE A MAILBOX, WITHIN THE STAGING AREA.

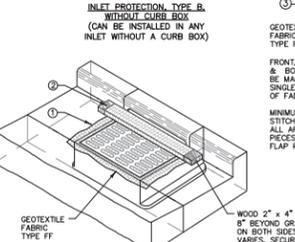
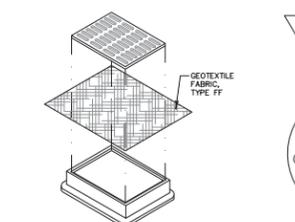
AT ABSOLUTELY NO TIME MAY CONSTRUCTION EQUIPMENT, DEBRIS, FILL, ETC. BE PLACED WITHIN WETLANDS, WATERWAYS OR FLOODPLANS UNLESS IDENTIFIED IN THE PLANS & APPROVED BY DNR/USACE.

DEWATERING PLAN

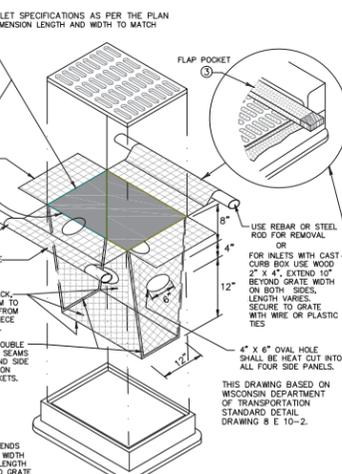
- TO FACILITATE CONSTRUCTION AT THE PROJECT SITE, DEWATERING MAY TAKE PLACE BY THE SELECTED CONTRACTOR. CONTRACTOR TO FOLLOW THESE INSTRUCTIONS WHILE PERFORMING DEWATERING ACTIVITIES ON-SITE.
- NOTE: THESE INSTRUCTIONS DO NOT APPLY TO WATER BEING DISCHARGED DIRECTLY TO GROUNDWATER OR KARST FEATURES OR WELL DEWATERING SYSTEMS. CONTRACTOR SHALL COORDINATE ACCORDINGLY FOR OTHER DEWATERING ACTIVITIES AS DEEMED NECESSARY WITH THE OWNER.
- THE CONTRACTOR SHALL ENSURE THAT THE DEWATERING PRACTICES CARRIED OUT MEET OR EXCEED MNR TECHNICAL STANDARD NUMBER 1061.
 - A PAN OR OTHER CONTAINMENT DEVICE SHALL BE PLACED UNDERNEATH THE PUMP TO CAPTURE ANY SPILLS. OILS, GASOLINE, ETC. SHALL NOT BE STORED WITHIN WETLANDS, NEAR THE STORMWATER POND, OR OTHER ON-SITE WATER AREAS.
 - A TYPE 2 GEOTEXTILE BAG THAT IS NO SMALLER THAN 100 SQUARE FEET, HAS A MAXIMUM APARENT OPENING SIZE OF 0.212 mm, HAS A GRAB TENSILE STRENGTH OF 300 LBS, MULLEN BURST OF 500 PSF, PERMEABILITY OF 0.2 CM/SEC, FABRIC HEIGHT OF 12 OZ SHALL BE USED. THE GEOTEXTILE BAG AREA AND DOWNGRADE FLOW AREA SHALL CONSIST OF VEGETATED AND UNDISTURBED SOILS.
 - POLYMER APPROVED BY THE MNR MEETING MNR TECHNICAL STANDARD 1055 MAY BE USED IN COMBINATION WITH THE DEWATERING BAG IF THE DEWATERING BAG IS NOT DOING AN ADEQUATE JOB ALONE OF FILTERING SEDIMENTS. THE CONTRACTOR SHALL SUPPLY TOCOTY TESTING DATA TO THE MNR BEFORE USE ON-SITE FOR MNR APPROVAL. POLYMER SHALL NOT BE DIRECTLY APPLIED TO SURFACE WATER. CONTRACTOR SHALL OBTAIN THE POLYMER MATERIAL SAFETY DATA SHEETS (MSDS) FOR THE SELECTED POLYMER, MANUFACTURER'S INFORMATION AND MNR USE RESTRICTIONS (SEE TECHNICAL STANDARD 1055) AND KEEP ALL THIS INFORMATION ON-SITE. CONTRACTOR SHALL ADHERE TO MANUFACTURER AND MNR'S APPLICATION RATES FOR THE POLYMER. THE APPLICATION RATE SHALL NOT EXCEED THE MNR USE RESTRICTION, EVEN IF THIS IS THE RECOMMENDED RATE BY THE MANUFACTURER. THE CONTRACTOR SHALL TAKE STEPS TO ENSURE THAT THE POLYMER IS NOT SPILLED. THE MANUFACTURER'S RECOMMENDED CLEANUP PROCEDURES SHALL BE FOLLOWED IN THE EVENT OF A SPILL.
 - A TARP MAY BE UTILIZED UNDERNEATH THE TYPE 2 GEOTEXTILE BAG AND JUST DOWN SLOPE OF THE BAG TO DISCOURAGE EROSION AND SCOUR.
 - A FLOATING SUCTION HOSE OR OTHER FLOTATION METHOD SHALL BE UTILIZED WHEN PUMPING FROM AN AREA WITH STANDING WATER TO AVOID SUCKING SEDIMENT FROM GRADE.
 - IF TURBID WATER IS LEAVING THE GEOTEXTILE BAG, THE CONTRACTOR SHALL SHUT OFF THE PUMP TO ALLOW SEDIMENTS TO SETTLE INTO THE BAG. CONTRACTOR SHALL FOLLOW THE MANUFACTURER'S SPECIFICATIONS FOR DETERMINING THE SEDIMENT CAPACITY OF THE GEOTEXTILE BAG USING GOOD COMMON SENSE. SEDIMENT LEVELS CONTAINED IN THE BAG SHALL BE MONITORED TO MEASURE THE LOSS OF STORAGE CAPACITY OVER TIME. THE CONTRACTOR SHALL PROPERLY DISPOSE OF THE GEOTEXTILE BAG IN A WASTE RECEPTACLE ONCE IT IS NO LONGER USED.
 - DURING DEWATERING ACTIVITIES THE CONTRACTOR SHALL MONITOR DEWATERING PRACTICES AND KEEP A LOG OF THE FOLLOWING:
 - DISCHARGE DURATION AND SPECIFIED PUMPING RATE.
 - OBSERVED WATER TABLE AT TIME OF DEWATERING.
 - MAINTENANCE ACTIVITIES
 - NAME AND QUANTITY OF POLYMER USED. PROJECT TYPE.
 - APPLICATION RATE OF POLYMER IN POUNDS/ACRE FEET OF WATER.
 - DATE AND TIME APPLIED.
 - WEATHER CONDITIONS DURING APPLICATION.
 - METHOD OF APPLICATION.
- THIS LOG NEEDS TO BE KEPT ON SITE FOR MNR REGULATORY REVIEW. COPIES OF THIS DOCUMENTATION SHOULD BE KEPT IN THE CONTRACTOR'S MONITORING LOG AND MADE AVAILABLE UPON REQUEST.
- REVIEW THE FOLLOWING FOR MORE INFORMATION:
 MNR TECHNICAL STANDARD 1061 FOR DEWATERING - <http://www.dnr.wisconsin.gov/business/engravers/epst.htm>
 MNR TECHNICAL STANDARD 1051 FOR POLYMER - <http://www.dnr.wisconsin.gov/business/engravers/epst.htm>



INLET PROTECTION, TYPE A



INLET PROTECTION, TYPE C, WITH CURB BOX



INLET PROTECTION, TYPE D, (CAN BE INSTALLED IN ANY INLET TYPE, WITH OR WITHOUT A CURB BOX)

- GENERAL NOTES:**
- MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.
 - WHEN REPAIRING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.
 - FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
 - FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
 - FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.
- INSTALLATION NOTES:**
- TYPE B & C TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEW FLAP, HAND HOLES OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.
 - TYPE D DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE. TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET BAG AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CHAIN THE BAG, USING PLASTIC ZIP-TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

3 INLET PROTECTION DETAIL

REVISIONS

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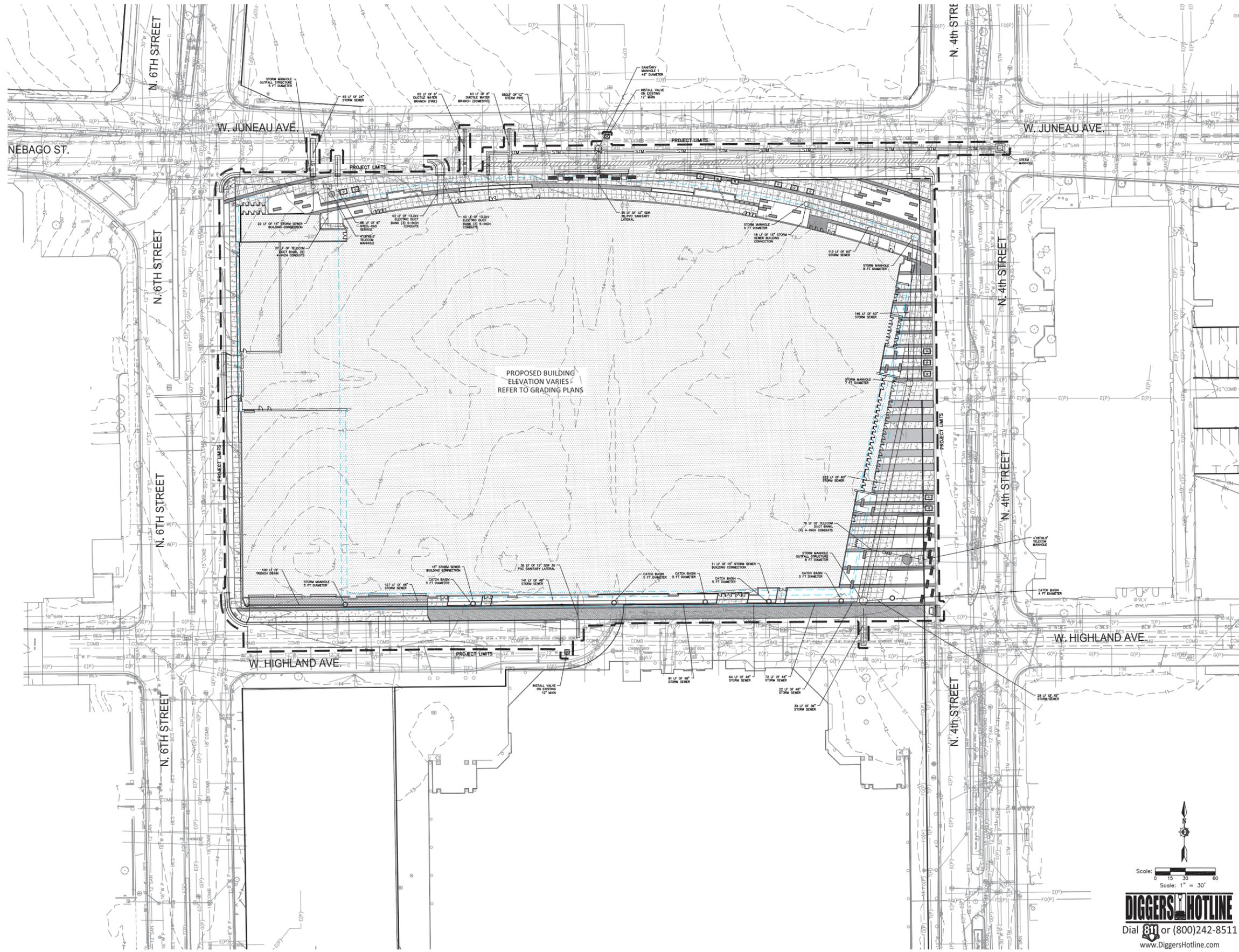
EROSION CONTROL DETAILS

SHEET
 A1 - 12



MILWAUKEE ARENA
 1111 N. 4TH STREET
 MILWAUKEE WI

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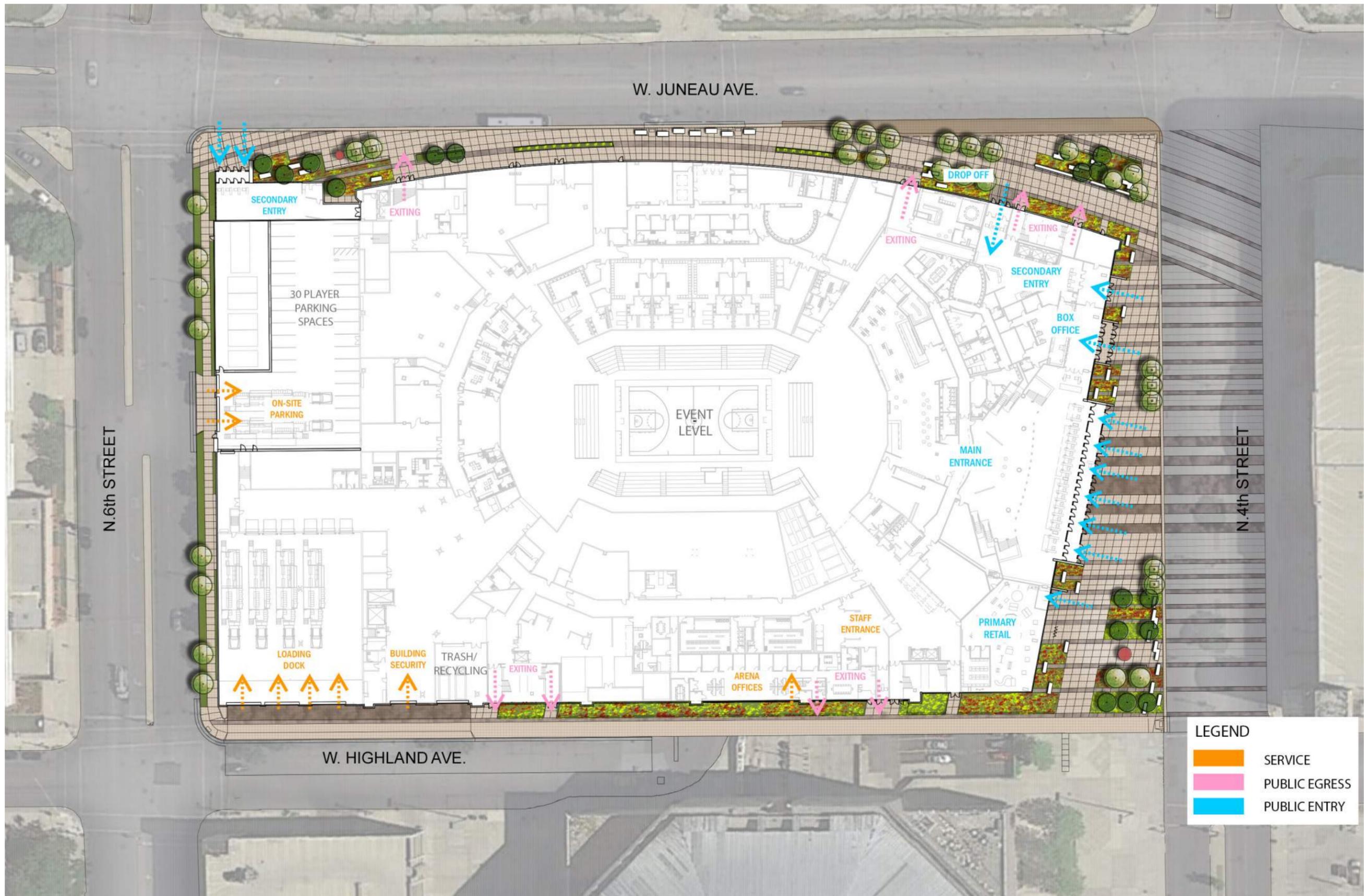


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OVERALL UTILITY PLAN



SHEET
 A1 - 13



LEGEND

- SERVICE
- PUBLIC EGRESS
- PUBLIC ENTRY



MILWAUKEE ARENA
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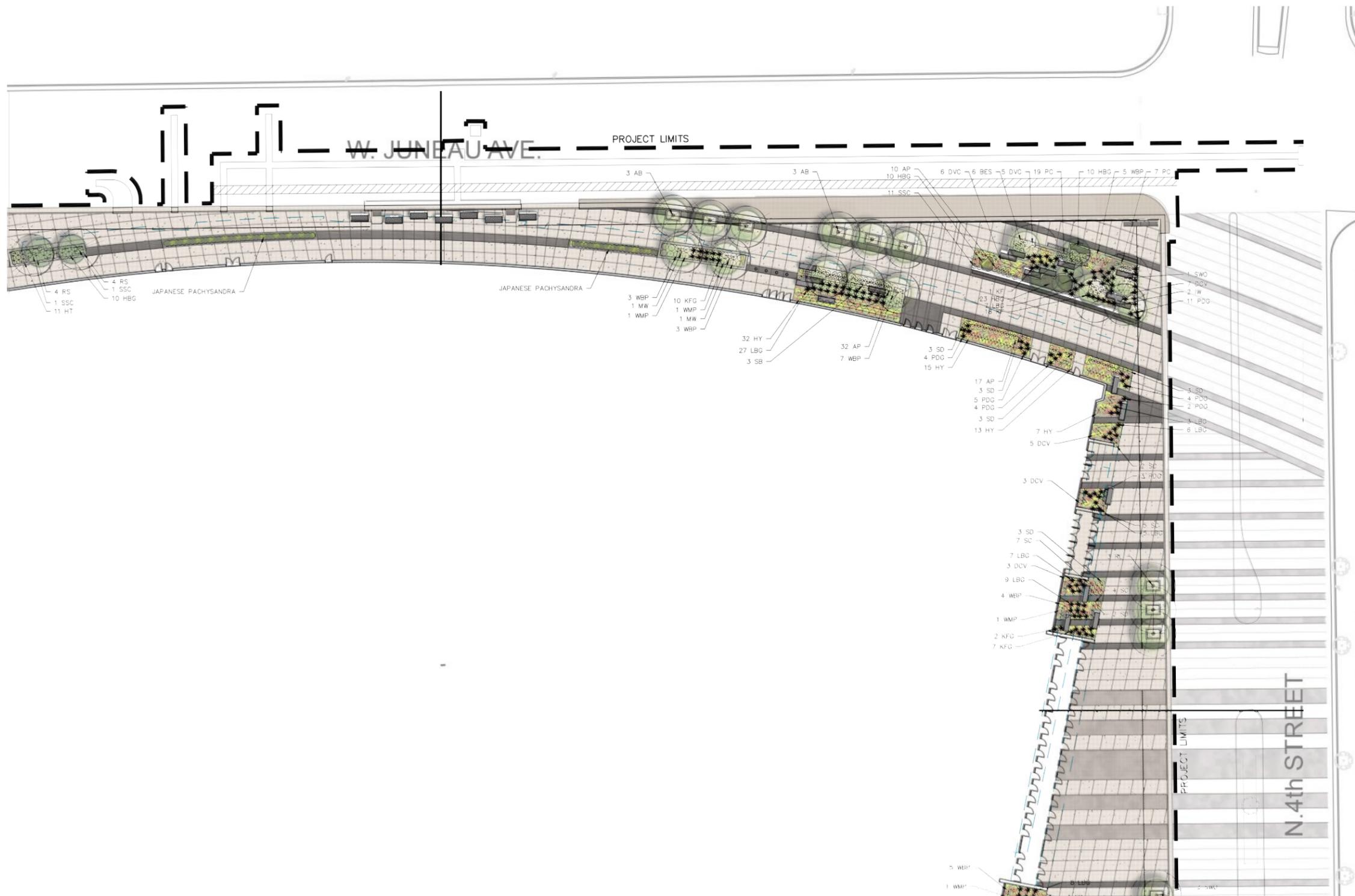


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OVERALL SITE CIRCULATION PLAN



SHEET
 A1 - 14



PLANT KEY	
SHADE TREES	
SWO	OAK, SWAMP WHITE
MM	MAPLE, MIYABE
RL	LINDEN, REDMOND
ORNAMENTAL TREES	
SSC	CRABAPPLE, 'SPRING SNOW'
IW	IRONWOOD
MW	MUSCLEWOOD
ABP	PEAR, AUTUMN BLAZE
SB	SERVICEBERRY, SHADBLOW
WH	WITCHAZEL, COMMON
SHRUBS	
DBH	HONEYSUCKLE, DWARF BUSH
RS	SUMMERSWEET, RUBY SPICE
HY	HYDRANGEA, OAKLEAF
DCV	VIBURNUM, DWARF CRANBERRY
WBP	WINTERBERRY, BERRY POPPINS
WMP	WINTERBERRY, MR POPPINS
PERENNIALS, GRASSES AND GROUNDCOVERS	
AA	ASTER, ALERT NEW YORK
PC	CONEFLOWER, PURPLE
SSC	COREOPSIS, 'SIENNA SUNSET'
SD	DAYLILY, STELLA D' ORO
HBG	HOSTA, BLUE GIANT
RG	GERANIUM, ROZANNE
PDG	GRASS, PRAIRIE DROPSEED
LBG	GRASS, LITTLE BLUESTEM
KFG	GRASS, KARL FOERSTER REED
BES	SUSAN, BLACK-EYED
HT	TURTLEHEAD, HOT LIPS PINK
	PACHYSANDRA, JAPANESE
VC	VIRGINIA CREEPER

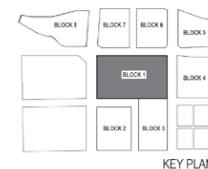


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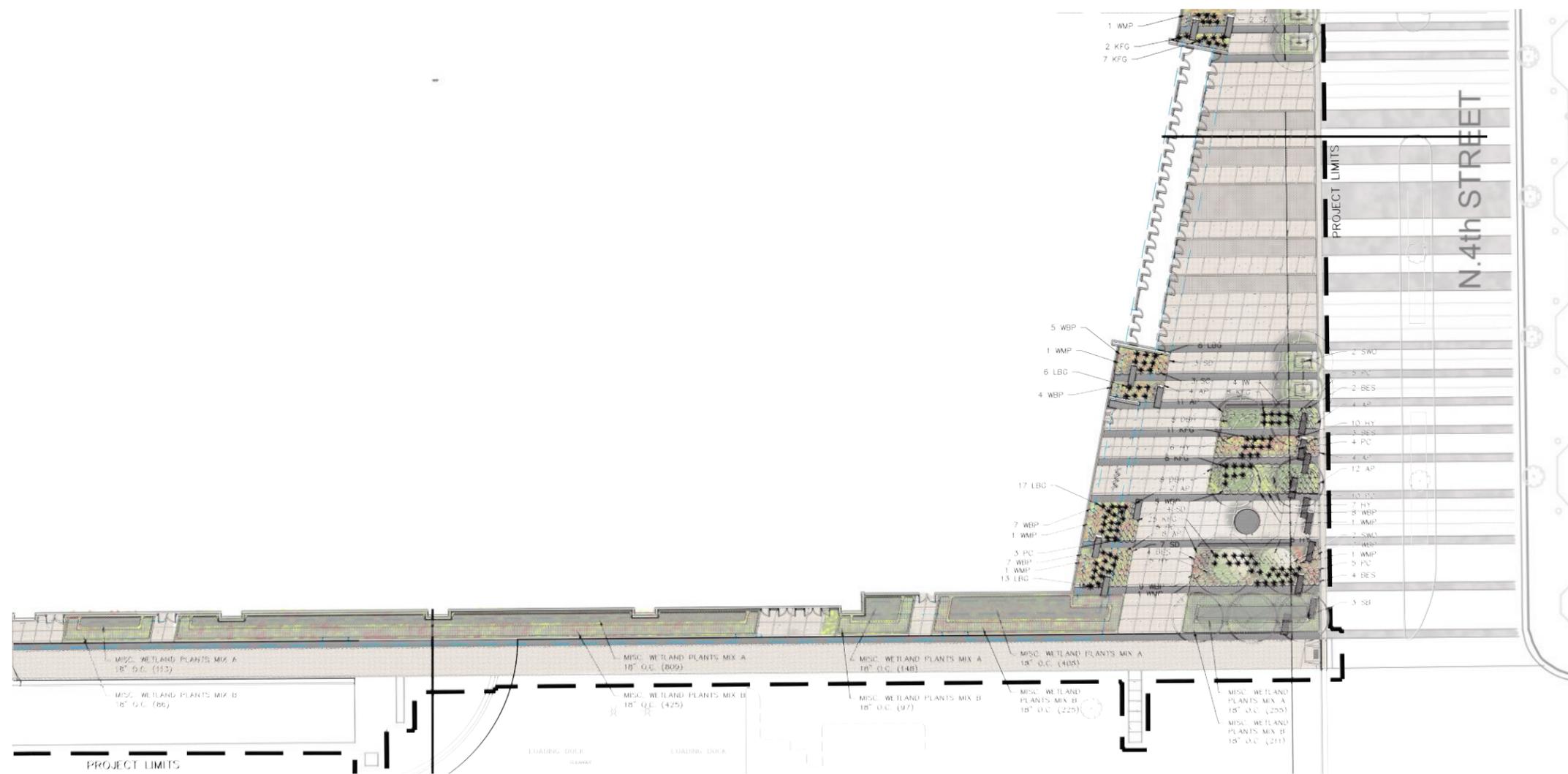
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ENLARGED LANDSCAPE PLAN -
 4TH & JUNEAU
POPULOUS **HNTB** **euca**

SHEET
 A1 - 15



PLANT KEY	
SHADE TREES	
SWO	OAK, SWAMP WHITE
MM	MAPLE, MIYABE
RL	LINDEN, REDMOND
ORNAMENTAL TREES	
SSC	CRABAPPLE, 'SPRING SNOW'
IW	IRONWOOD
MW	MUSCLEWOOD
ABP	PEAR, AUTUMN BLAZE
SB	SERVICEBERRY, SHADBLOW
WH	WITCHAZEL, COMMON
SHRUBS	
DBH	HONEYSUCKLE, DWARF BUSH
RS	SUMMERSWEET, RUBY SPICE
HY	HYDRANGEA, OAKLEAF
DCV	VIBURNUM, DWARF CRANBERRY
WBP	WINTERBERRY, BERRY POPPINS
WMP	WINTERBERRY, MR POPPINS
PERENNIALS, GRASSES AND GROUNDCOVERS	
AA	ASTER, ALERT NEW YORK
PC	CONEFLOWER, PURPLE
SSC	COREOPSIS, 'SIENNA SUNSET'
SD	DAYLILY, STELLA D'ORO
HGB	HOSTA, BLUE GIANT
RG	GERANIUM, ROZANNE
PDG	GRASS, PRAIRIE DROPSEED
LBG	GRASS, LITTLE BLUESTEM
KFG	GRASS, KARL FOERSTER REED
BES	SUSAN, BLACK-EYED
HT	TURTLEHEAD, HOT LIPS PINK
	PACHYSANDRA, JAPANESE
VC	VIRGINIA CREEPER

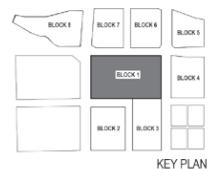


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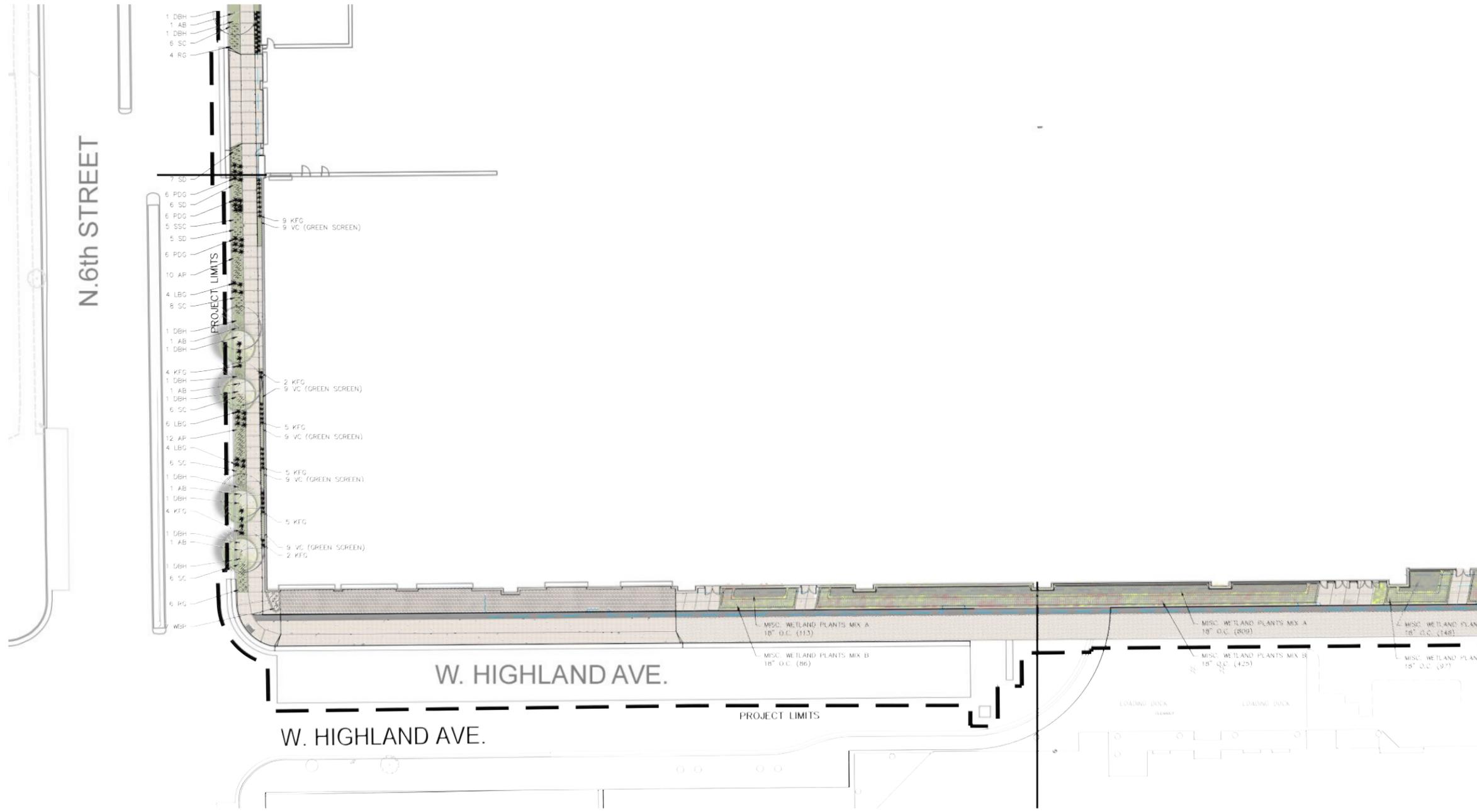
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ENLARGED LANDSCAPE PLAN -
 4TH & HIGHLAND
POPULOUS HNTB eua

SHEET
A1 - 16



PLANT KEY	
SHADE TREES	
SWO	OAK, SWAMP WHITE
MM	MAPLE, MIYABE
RL	LINDEN, REDMOND
ORNAMENTAL TREES	
SSC	CRABAPPLE, 'SPRING SNOW'
IW	IRONWOOD
MW	MUSCLEWOOD
ABP	PEAR, AUTUMN BLAZE
SB	SERVICEBERRY, SHADBLow
WH	WITCHAZEL, COMMON
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HY	HYDRANGEA, OAKLEAF
DCV	VIBURNUM, DWARF CRANBERRY
WBP	WINTERBERRY, BERRY POPPINS
WMP	WINTERBERRY, MR POPPINS
PERENNIALS, GRASSES AND GROUNDCOVERS	
AA	ASTER, ALERT NEW YORK
PC	CONEFLOWER, PURPLE
SSC	COREOPSIS, 'SIENNA SUNSET'
SD	DAYLILY, STELLA D'ORO
HGB	HOSTA, BLUE GIANT
RG	GERANIUM, ROZANNE
PDG	GRASS, PRAIRIE DROPSEED
LBG	GRASS, LITTLE BLUESTEM
KFG	GRASS, KARL FOERSTER REED
BES	SUSAN, BLACK-EYED
HT	TURTLEHEAD, HOT LIPS PINK
	PACHYSANDRA, JAPANESE
VC	VIRGINIA CREEPER



MILWAUKEE ARENA
1111 N. 4TH STREET
MILWAUKEE WI

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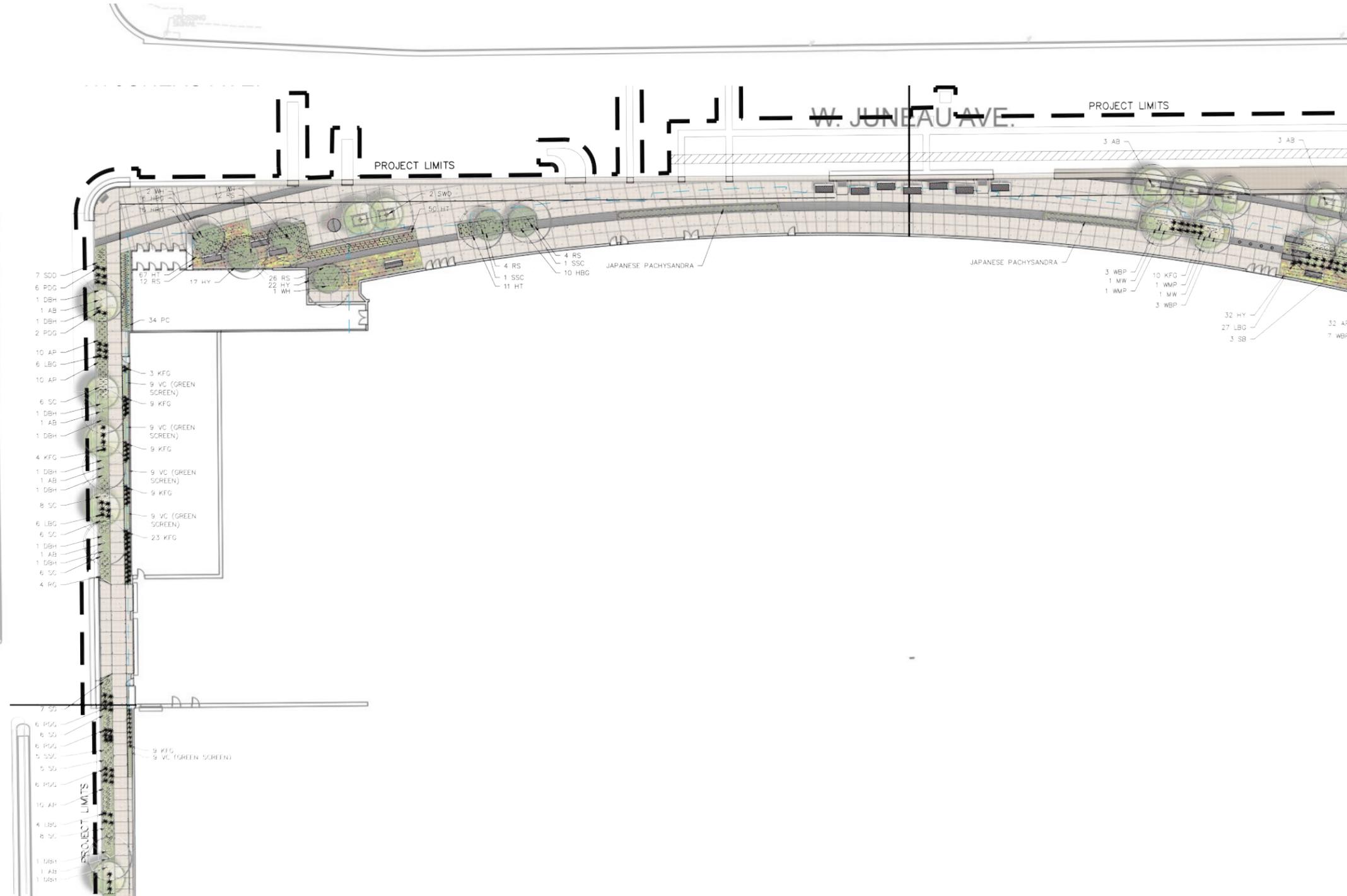


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ENLARGED LANDSCAPE PLAN -
 6TH & HIGHLAND
POPULOUS HNTB eua

SHEET
 A1 - 17

N. 6th STREET



PLANT KEY	
SHADE TREES	
SWO	OAK, SWAMP WHITE
MM	MAPLE, MIYABE
RL	LINDEN, REDMOND
ORNAMENTAL TREES	
SSC	CRABAPPLE, 'SPRING SNOW'
IW	IRONWOOD
MW	MUSCLEWOOD
ABP	PEAR, AUTUMN BLAZE
SB	SERVICEBERRY, SHADBLOW
WH	WITCHAZEL, COMMON
SHRUBS	
DBH	HONEYSUCKLE, DWARF BUSH
RS	SUMMERSWEET, RUBY SPICE
HY	HYDRANGEA, OAKLEAF
DCV	VIBURNUM, DWARF CRANBERRY
WBP	WINTERBERRY, BERRY POPPINS
WMP	WINTERBERRY, MR POPPINS
PERENNIALS, GRASSES AND GROUNDCOVERS	
AA	ASTER, ALERT NEW YORK
PC	CONEFLOWER, PURPLE
SSC	COREOPSIS, 'SIENNA SUNSET'
SD	DAYLILY, STELLA D'ORO
HBG	HOSTA, BLUE GIANT
RG	GERANIUM, ROZANNE
PDG	GRASS, PRAIRIE DROPSEED
LBG	GRASS, LITTLE BLUESTEM
KFG	GRASS, KARL FOERSTER REED
BES	SUSAN, BLACK-EYED
HT	TURTLEHEAD, HOT LIPS PINK
VC	PACHYSANDRA, JAPANESE VIRGINIA CREEPER

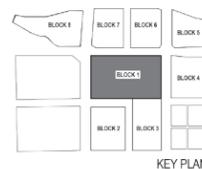


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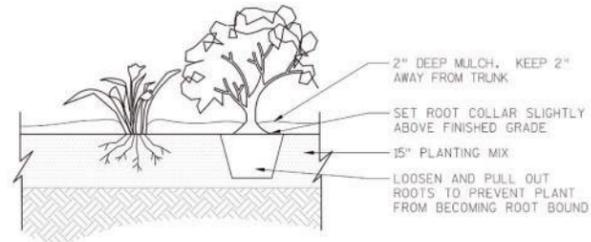
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ENLARGED LANDSCAPE PLAN -
 6TH & JUNEAU
POPULOUS **HNTB** **eu**

SHEET
 A1 - 18

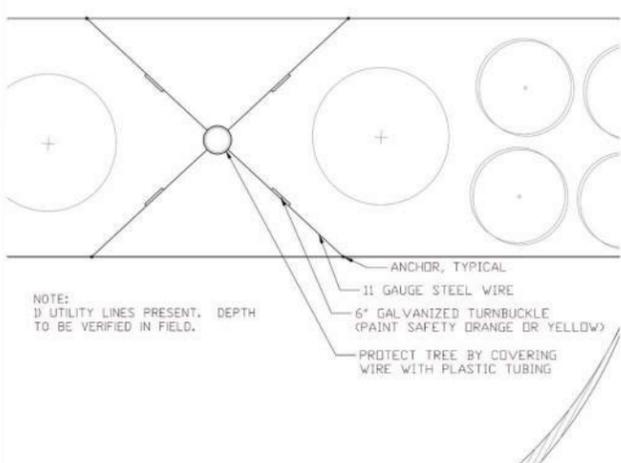
SYM.	QUANTITY	COMMON NAME	SCIENTIFIC NAME	AVE. MATURE HEIGHT	SIZE WHEN PLANTED	ROOT ZONE MODE
SHADE TREES						
SWO	6	Oak, Swamp White	Quercus bicolor	60'	2 1/2" CAL	B&B
MM	3	Maple, Miyabe	Acer miyabei	35'	2 1/2" CAL	B&B
RL	3	Linden, Redmond	Tilia americana 'Redmond'	45'	2 1/2" CAL	B&B
ORNAMENTAL TREES						
SSC	4	Crab 'Spring Snow, PP2667	Malus 'Spring Snow, PP2667	20'	2" CAL	B&B
IW	4	Ironwood	Ostrya virginiana	30'	2" CAL	B&B
MW	4	Musclewood	Carpinus caroliniana	20'	2" CAL	B&B
AB	15	Pear, Autumn Blaze	Pyrus Calleryana 'Autumn Blaze	30'	2" CAL	B&B
SB	3	Serviceberry, Shadblow	Amelanchier canadensis	15'	2" CAL	B&B
WH	6	Witchazel, Common, tree form	Hamamelis virginiana	15'	2" CAL	B&B
SHRUBS						
DBH	28	Honeysuckle, Dwarf bush	Diervilla lonicera	4'	#1	CONT.
RS	60	Summersweet, Ruby Spice	Clethra alnifolia 'Ruby Spice'	3'	#1	CONT.
HY	173	Hydrangea, Oakleaf	Hydrangea quercifolia	5'	#1	CONT.
DCV	19	Viburnum, Dwarf Cranberry	Viburnum opulus 'Nanum'	3'	#1	CONT.
WBP	78	Winterberry, Berry Poppins	Illex verticillata 'FarrowBPop'	3'	#1	CONT.
WMP	11	Winterberry, Mr Poppins	Illex verticillata 'FarrowMP'	3'	#1	CONT.
PERENNIALS, GRASSES & GROUNDCOVERS						
AP	10	Aster, Alert New York	Aster nov-belgii 'Alert'	1-5"	#1	CONT.
PC	64	Coneflower, Purple	Echinacea purpurea	4'	#1	CONT.
SC	69	Coreopsis, 'Sienna Sunset'	Coreopsis 'Sienna Sunset'	16"	#1	CONT.
SD	72	Daylily, 'Stella D' Oro	Hemerocallis 'Stella D' Oro'	1'	#1	CONT.
HBG	47	Hosta, Blue Giant	Hosta 'Blue Giant'	30"	#1	CONT.
RG	10	Geranium, Rozanne	Geranium x 'Rozanne'	15"	#1	CONT.
PDG	69	Grass, Prairie Dropseed	Sporobolus heterolepis	2'	#1	CONT.
LBG	156	Grass, Little bluestem	Schizachyrium scoparium 'Carousel'	1-5"	#1	CONT.
KFG	97	Grass, Karl Foerster Reed	Calamagrostis x acutiflora 'Karl Foerster'	4'	#1	CONT.
BES	44	Susan, Black Eyed	Rudbeckia hirta	3'	#1	CONT.
HT	127	Turtlehead, Hot Lips Pink	Chelone lynchii 'Hot Lips'	2'	#1	CONT.
	1588	Pachysandra, Japanese	Pachysandra terminalis	6"	2.5"	CONT.
		Misc Wetland Plants		-	2.5"	CONT.
	1731	Mix A				
		Columbine, Wild	Aquilegia canadensis	2'	2.5"	CONT.
		Goldenrod, Zig zag	Solidago flexicaulis	3'	2.5"	CONT.
		Flower, Cardinal	Lobelia cardinalis	3'	2.5"	CONT.
		Susan, Black Eyed	Rudbeckia hirta	3'	2.5"	CONT.
		Weed, Joe Pye	Eupatorium dubium 'Little Joe'	4'	2.5"	CONT.
	1044	Mix B				
		Sedge, Common Cattail	Carex typhina	2	2.5"	CONT.
		Sedge, Brown Fox	Carex vulpinoidea	3	2.5"	CONT.

1 PLANT SCHEDULE
N.T.S.

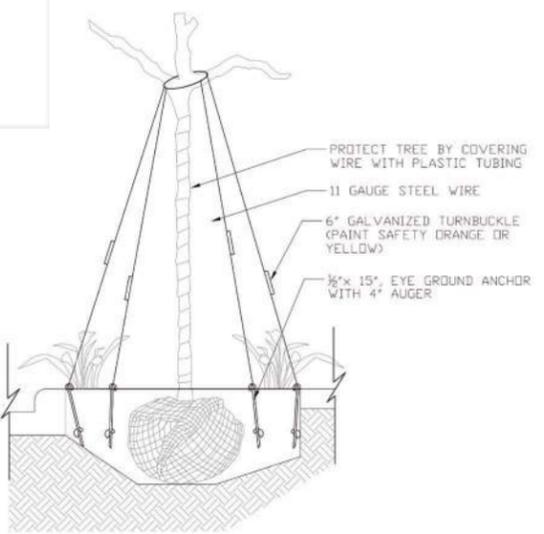


NOTE:
1) METAL, PLASTIC OR OTHER NONDEGRADABLE POTS SHALL BE REMOVED PRIOR TO PLANTING

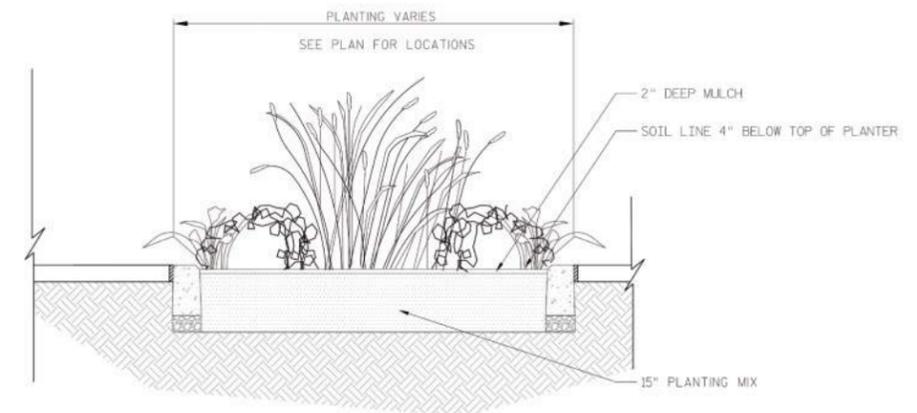
2 SHRUB & PERENNIAL PLANTING DETAIL
N.T.S.



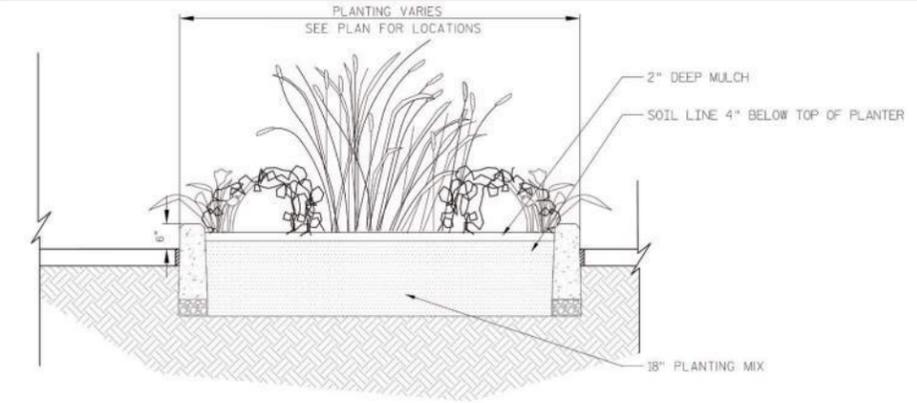
3 TREE GUYING PLANVIEW
N.T.S.



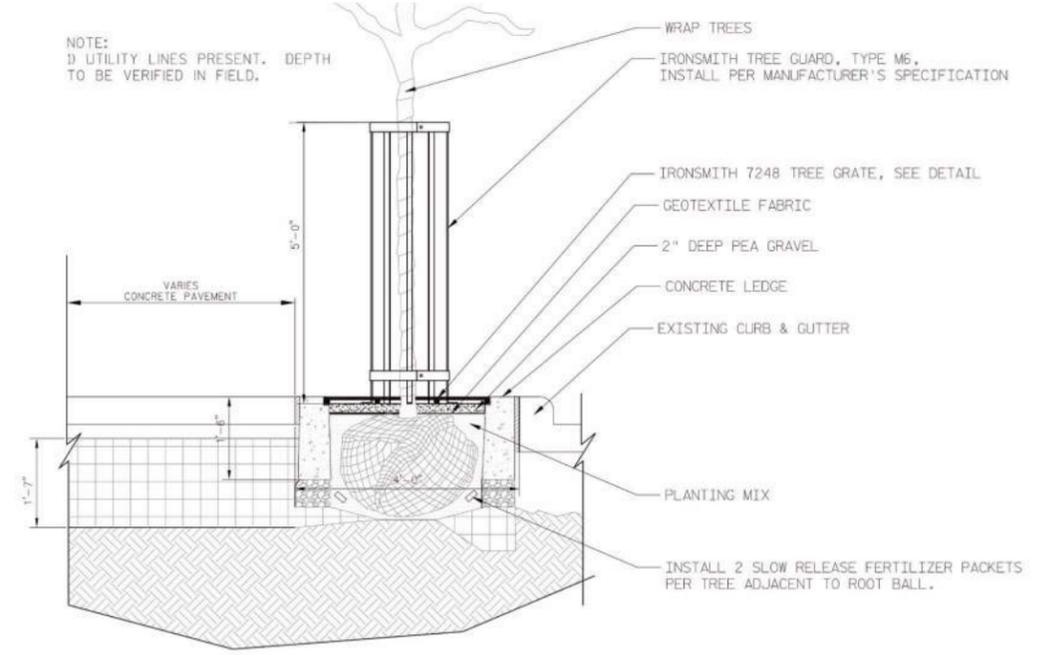
4 TREE GUYING SECTION
N.T.S.



5 AT GRADE PLANTER
N.T.S.



6 6" CURB PLANTER
N.T.S.



7 TREE PLANTING WITH GRATE
N.T.S.



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SITE LANDSCAPE DETAILS



SHEET
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