

LEGEND

- - - - - 5'-FT CONTOUR
- - - - - 1'-FT CONTOUR
- - - - - LIMITS OF DISTURBANCE=0.6 AC
- - - - - SILT FENCE OR STRAW WATTLE
- STORM SEWER INLET PROTECTION
- - - - - DEMO EXISTING CURB AND GUTTER
- EXISTING PAVEMENT OR SIDEWALK TO BE REMOVED

- CONSTRUCTION SEQUENCE**
1. INSTALL SILT FENCE AND/OR STRAW WATTLES AS SHOWN ON PLAN. MAINTAIN AS NECESSARY DURING CONSTRUCTION.
 2. INSTALL TRACKING PAD.
 3. BEGIN CONSTRUCTION OF FOOTING AND FOUNDATION.
 4. PROCEED WITH UTILITY CONSTRUCTION.
 5. GRADE SITE AND PREPARE AGGREGATE BASE.
 6. STABILIZE DISTURBED GROUND WITH TEMPORARY SEED AND MULCH.
 7. INSTALL PAVEMENT SURFACE.
 8. INSTALL LANDSCAPING.
 9. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL BMPs WHEN DISTURBED AREAS ARE PERMANENTLY STABILIZED AND NO LONGER SUSCEPTIBLE TO EROSION.

- DEMOLITION NOTES**
1. ITEMS BOLD ON THIS SHEET ARE TO BE ABANDONED, REMOVED, RELOCATED, ETC. SEE PLAN NOTES FOR DETAILS.
 2. RESTRICT ACCESS TO SITE BY CLOSING SIDEWALKS AND INSTALLING PERIMETER SECURITY FENCING. COORDINATE WITH THE CITY OF MILWAUKEE.
 3. COORDINATE DEMOLITION, TRAFFIC CONTROL AND CONSTRUCTION IN WELLS STREET RIGHT-OF-WAY WITH THE CITY OF MILWAUKEE.
 4. CAREFULLY REMOVE LIGHT POLES SHOWN IN BOLD. ALL LIGHT POLES AND LIGHT POLE FIXTURES ARE TO BE RE-INSTALLED AFTER CONSTRUCTION. IF A LIGHT POLE IS ONLY TO BE REMOVED TEMPORARILY AND REPLACED AFTER CONSTRUCTION, PRESERVE EXISTING BASE.
 5. CAREFULLY REMOVE ALL SIGNS SHOWN IN BOLD. ALL SIGNS ARE TO BE RE-INSTALLED AFTER CONSTRUCTION.

- EROSION CONTROL NOTES**
1. THE ASSIGNED EROSION CONTROL INSPECTOR MUST BE NOTIFIED WITHIN 48 HOURS OF BEGINNING ANY LAND DISTURBING ACTIVITY.
 2. THE INSPECTOR MUST BE NOTIFIED OF COMPLETION OF CONTROL MEASURES WITHIN 14 DAYS.
 3. EROSION CONTROL MEASURES MUST BE INSPECTED AND REPAIRED WEEKLY AND AFTER EACH RAIN TOTALING ONE-HALF INCH OR MORE.
 4. ANY SEDIMENT REACHING A PUBLIC OR PRIVATE ROAD OR SIDEWALK SHALL BE REMOVED BY STREET CLEANING, OTHER THAN FLUSHING, IMMEDIATELY.
 5. CONTRACTOR SHALL KEEP A COPY OF THE EROSION CONTROL PLANS AT THE PROJECT SITE AND PROVIDE COMPLETED EROSION CONTROL CHECK SHEETS TO THE CONSTRUCTION INSPECTOR.

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MANAGEMENT & MAINTENANCE FACILITY

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milwaukee, WI 53218**

REVISIONS	DATE	BY	DESCRIPTION
TAG			

KAP PROJECT NO. 14-125
SCALE AS NOTED
DATE 02.27.15

SITE DEMOLITION AND EROSION CONTROL PLAN

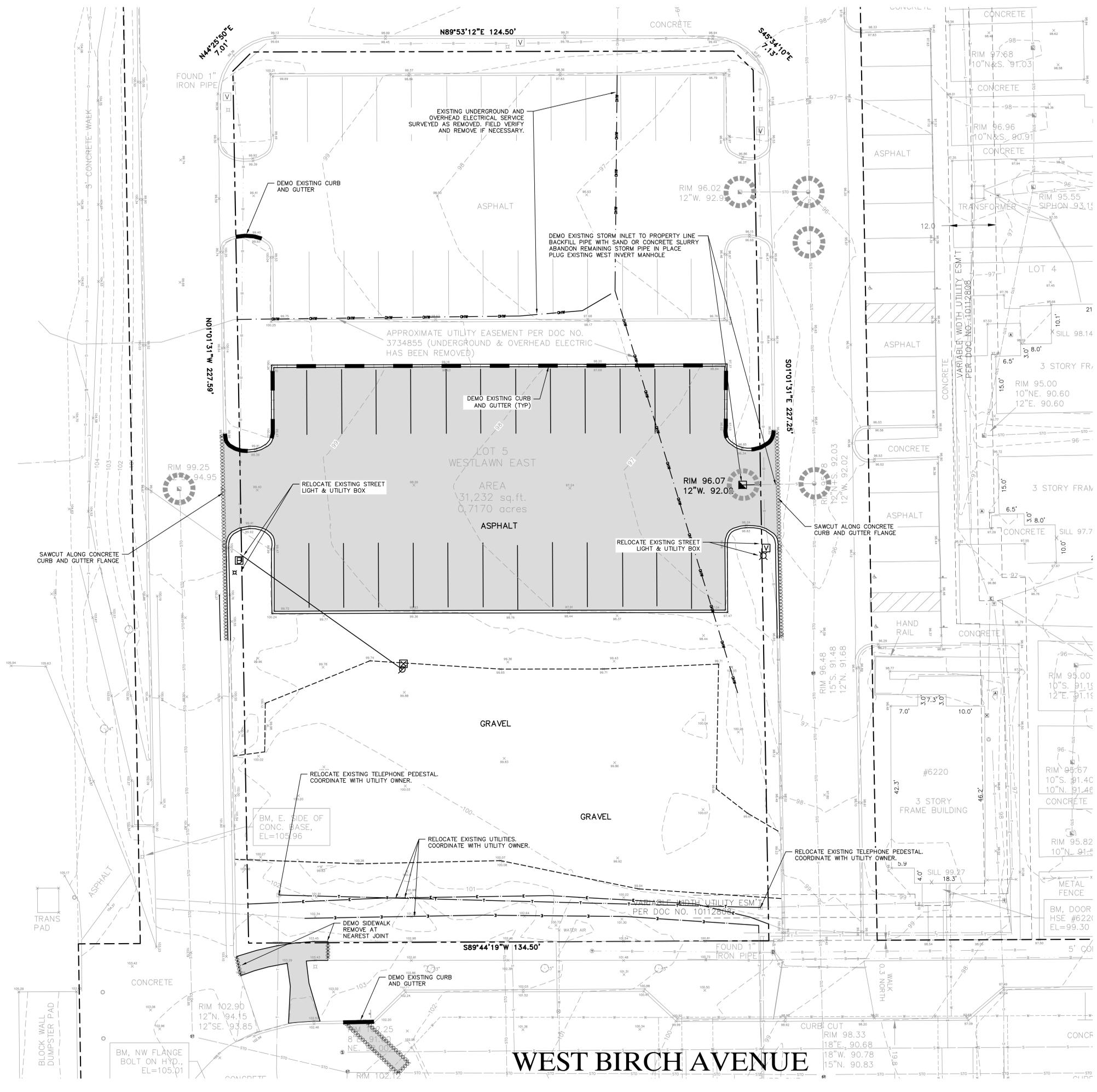
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DPD SUBMISSION



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THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THIS PLAN ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.



WEST BIRCH AVENUE

LEGEND

	CONCRETE SIDEWALK (SEE CIVIL DETAILS)
	HEAVY DUTY CONCRETE PAVEMENT (SEE CIVIL DETAILS)
	STANDARD PARKING SPACE COUNT STANDARD SPACE = 9.0'x18.0'
	ACCESSIBLE PARKING SPACE COUNT ACCESSIBLE SPACE = 9.0'x18.0'

PLAN NOTATIONS

SYSL 4" = SINGLE YELLOW SOLID LINE 4"
 DYSL 4" = DOUBLE YELLOW SOLID LINE 4"
 SWSL 4" = SINGLE WHITE SOLID LINE 4"
 SWSL 18" = SINGLE WHITE SOLID LINE 18"
 F/C = FACE OF CURB
 O/C = ON CENTER
 TYP = TYPICAL

SITE CALCULATIONS

	ACRES
TOTAL PARCEL AREA	0.72
TOTAL DISTURBED AREA	0.55
EXISTING IMPERVIOUS AREA	0.57
PROPOSED IMPERVIOUS AREA	0.65

PARKING CALCULATIONS

STANDARD SPACES PROVIDED	26
ACCESSIBLE SPACES PROVIDED	0
TOTAL PARKING SPACES PROVIDED	26

GENERAL NOTES

EXISTING TOPOGRAPHY OBTAINED BY R.A. SMITH NATIONAL, INC, DATED DECEMBER 17, 2014.

CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND DIMENSION OF ENTRANCES, VESTIBULES, STAIRS, RETAINING WALLS, RAMPS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.

CONTRACTOR SHALL PROVIDE EROSION CONTROL FACILITIES IN ACCORDANCE WITH THE CITY OF MILWAUKEE EROSION CONTROL ORDINANCE AND WISCONSIN DNR TECHNICAL STANDARDS.

ALL DIMENSIONS AND CORRESPONDING HORIZONTAL CONTROL RELATED TO PAVING REPRESENT FACE OF CURB, ELEVATIONS AND CONTOURS REPRESENT FINISHED GRADES UNLESS OTHERWISE INDICATED. BUILDINGS ARE DIMENSIONED TO FACE OF BUILDING.

BEFORE PROCEEDING WITH ANY UTILITY CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE EACH EXISTING LATERAL OR POINT OF CONNECTION AND VERIFY THE SIZE, LOCATION AND ELEVATION OF ALL UTILITIES.

ALL SITE SIGNAGE MUST COMPLY WITH THE MOST RECENT EDITION OF THE FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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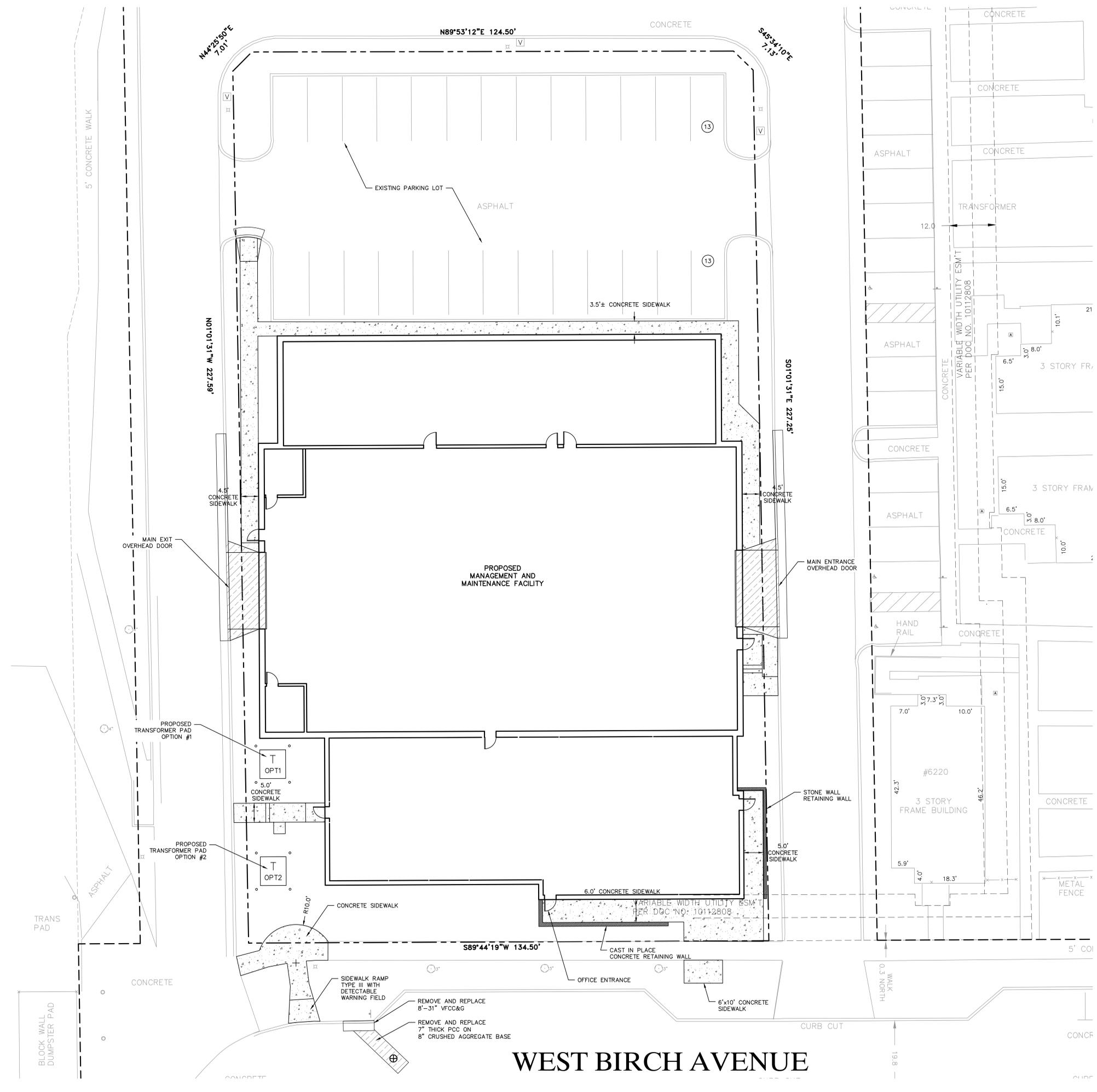
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SITE PLAN

C200

DPD SUBMISSION



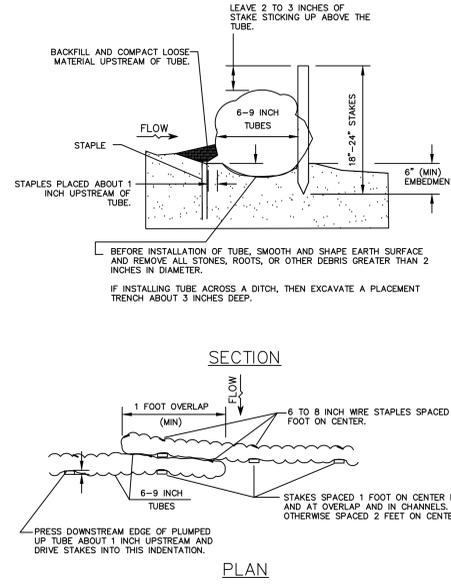
DIGGERS HOTLINE
 Toll Free (800) 245-8811
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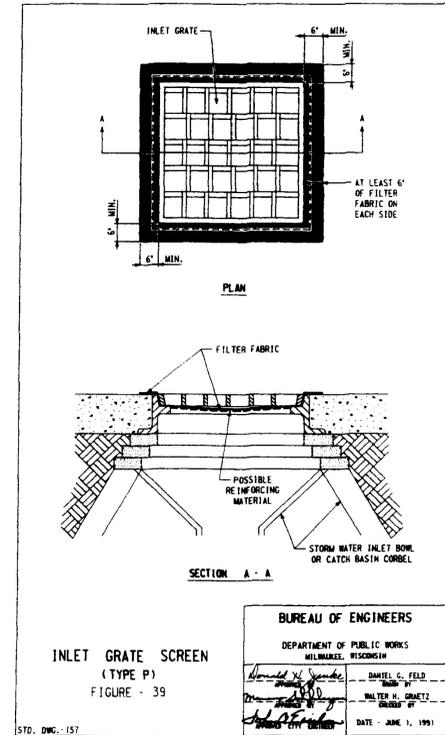
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GENERAL NOTES GRADING

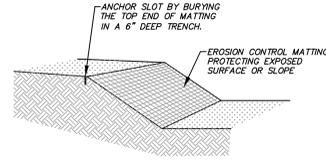
1. THE PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED ACCORDING TO THE WISCONSIN D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION, AND THE LOCAL ORDINANCES AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL MAINTAIN SITE DRAINAGE THROUGHOUT CONSTRUCTION. THIS MAY INCLUDE THE EXCAVATION OF TEMPORARY DITCHES OR PUMPING TO ALLEVIATE WATER PONDING.
3. SILT FENCE AND OTHER EROSION CONTROL FACILITIES MUST BE INSTALLED PRIOR TO CONSTRUCTION OR ANY OTHER LAND DISTURBING ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL EROSION CONTROL FACILITIES ONCE THE THREAT OF EROSION HAS PASSED WITH THE APPROVAL OF THE GOVERNING AGENCY.
4. THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR THE COMPUTATIONS OF ALL GRADING AND FOR ACTUAL LAND BALANCE, INCLUDING UTILITY TRENCH SPOIL. THE CONTRACTOR SHALL IMPORT OR EXPORT MATERIAL AS NECESSARY TO COMPLETE THE PROJECT.
5. GRADING SHALL CONSIST OF CLEARING AND GRUBBING EXISTING VEGETATION, STRIPPING TOPSOIL, REMOVAL OF EXISTING PAVEMENT OR FOUNDATIONS, IMPORTING OR EXPORTING MATERIAL TO ACHIEVE AN ON-SITE EARTHWORK BALANCE, GRADING THE PROPOSED BUILDING PADS AND PAVEMENT AREAS, SCARIFYING AND FINAL COMPACTION OF THE PAVEMENT SUBGRADE, AND PLACEMENT OF TOPSOIL.
6. NO FILL SHALL BE PLACED ON A WET OR SOFT SUBGRADE. THE SUBGRADE SHALL BE PROOF-ROLLED AND INSPECTED BY THE GEOTECHNICAL ENGINEER BEFORE ANY MATERIAL IS PLACED.
7. ALL FILL SHALL BE CONSIDERED STRUCTURAL FILL AND SHALL BE PLACED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND PROJECT MANUAL.



STRAW WATTLE

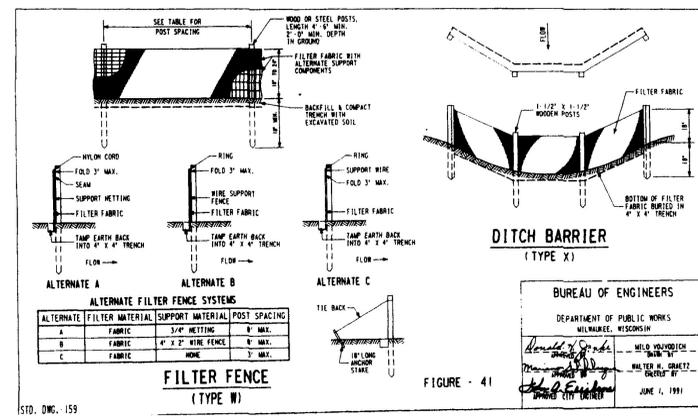


INLET GRATE SCREEN (TYPE P) FIGURE - 39



EROSION CONTROL MATTING DETAIL

- NOTES:**
1. PRIOR TO THE INSTALLATION OF ANY EROSION CONTROL MATTING, ALL ROCKS, DIRT CLODS, STUMPS, ROOTS, TRASH AND ANY OTHER OBSTRUCTIONS WHICH WOULD PREVENT THE MAT FROM LAYING IN DIRECT CONTACT WITH THE SOIL SHALL BE REMOVED.
 2. THE MATTING SHALL BE ANCHORED ALONG ITS ENTIRE PERIMETER WITH A 6"x6" ANCHOR TRENCH. AFTER MATTING IS LAID IN TRENCH, BACKFILL AND COMPACT WITH SOIL OR GRAVEL.
 3. THE MATTING SHALL BE ANCHORED TO THE GROUND USING 10 GAUGE WIRE STAPLES, 6" IN LENGTH BY 1" WIDE WITH A COVERAGE NOT LESS THAN 1 STAPLE PER EVERY 4 SQUARE FEET OF MATTING.
 4. INSTALLATIONS SHALL ALSO BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDED GUIDELINES.
 5. EROSION CONTROL MATTING SHALL BE ONE OF THE FOLLOWING:
 - A. JUTE MAT COMPOSED OF A JUTE YARN HEAVED IN A BASIC MANNER AND FREE OF ANY DYE AND HAVING A MINIMUM UNIT WEIGHT OF 2.7 LBS. PER SQ. YARD.
 - B. WOOD FIBER MAT COMPOSED OF WOOD FIBERS ENCASED IN A NETTING MADE OF NYLON, COTTON OR SIMILAR MATERIAL AND HAVING A MINIMUM UNIT WEIGHT OF 1.0 LBS. PER SQ. YARD.
 - C. SYNTHETIC WEBBING MAT MADE OF POLYVINYL CHLORIDE POLYPROPYLENE MONOFILMENTS HAVING A MINIMUM UNIT WEIGHT OF 11 OUNCES PER SQ. YARD AND A MINIMUM TENSILE STRENGTH OF 25 LBS. IN ALL DIRECTIONS. (ASTM D-1682-64)
 6. MATTED AREAS MUST BE INSPECTED ON A WEEKLY BASIS, AND AFTER EACH SIGNIFICANT RAINFALL. BARE SPOTS, MISSING OR LOOSENED MATTING MUST BE IMMEDIATELY REPLACED AND/OR RE-ANCHORED.
 7. STAPLES SHALL BE REMOVED FROM THE GROUND ONCE THE THREAT OF EROSION HAS PASSED AND PERMANENT VEGETATION HAS BEEN ESTABLISHED.



ALTERNATE FILTER FENCE SYSTEMS (TYPE W) FIGURE - 41

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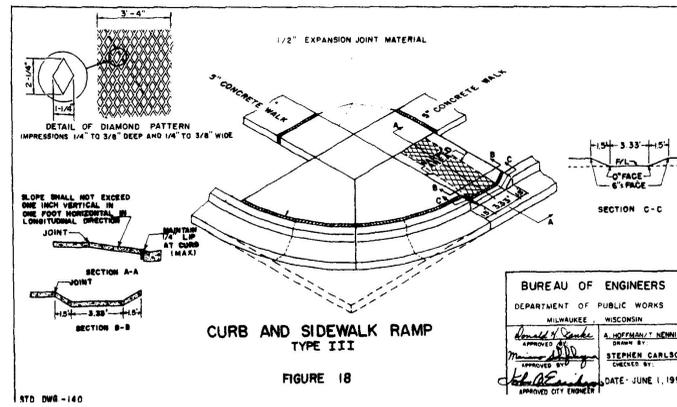
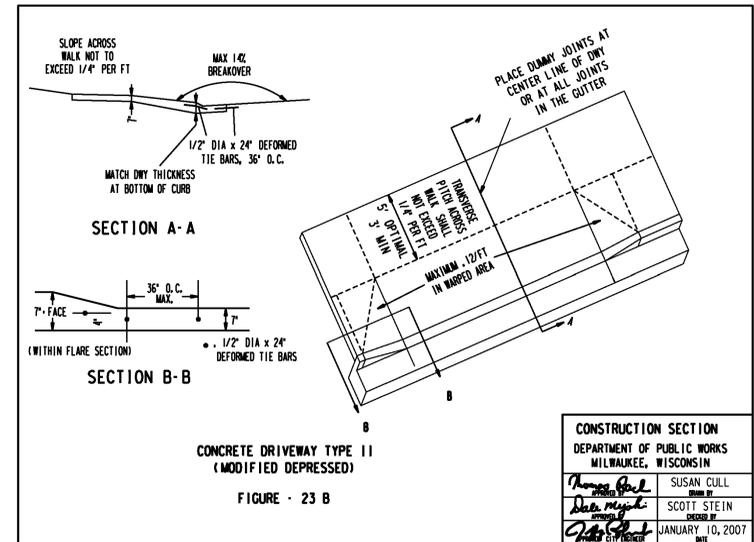
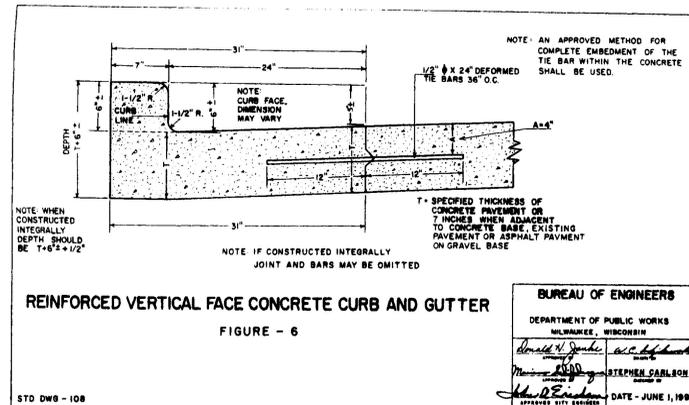
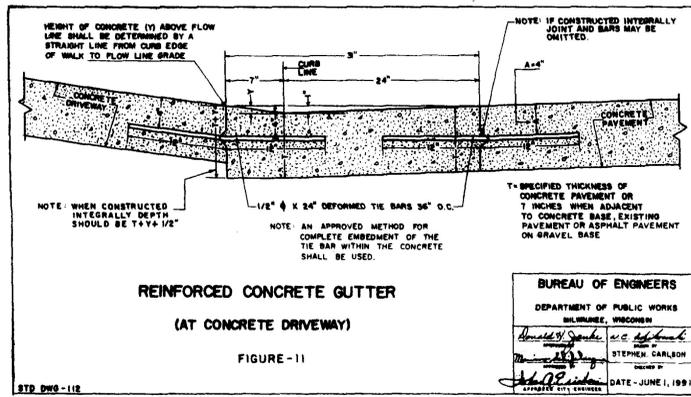
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CIVIL DETAILS EROSION CONTROL

C500

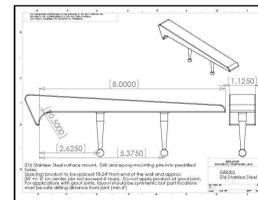
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PRODUCT DETAILS
G 05-SS
("G" Series - Surface Mount Stainless Steel)



Description: This 316 Stainless Steel part is designed for walls with 1/2" radius edge. G 05-SS is most commonly used on concrete. This part uses two concealed G PIN anchors.



SKATESTOPPERS INSTALLATION PERSPECTIVE

Material: 316 Stainless Steel
Standard Finish: Blast
Optional Finish: Brushed
Corner Radius: For corner from 1/2" radius.
Outside Dimensions: 1-1/8" (wide) x 8" (deep) x 1" (tall)
Anchoring: Anchored with two blind G PINS anchor pins. Use anchors in conjunction with two-part epoxy.
Product Spacing: 18"-24" from end of planters/walls and approximately 36" centers (not to exceed 48"). Do not apply product at grout joint. For applications with grout joints, layout should be symmetric but part locations must be safe drilling distance from joint (min 4").

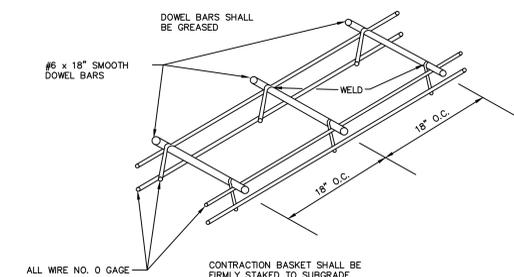
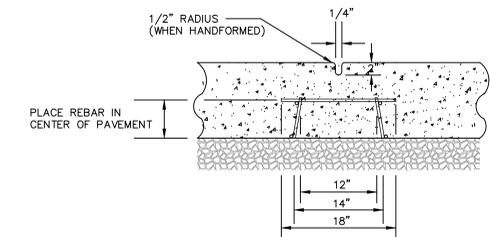
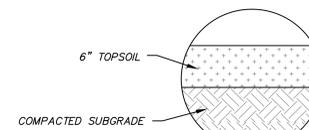
SKATESTOPPERS SKATEBOARD DETERRENT FOR CONCRETE RETAINING WALL



HEAVY DUTY CONCRETE PAVEMENT SECTION

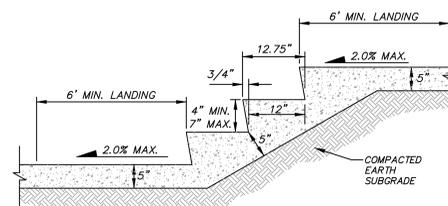
- PAVEMENT SECTIONS PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
- A GEOTECHNICAL ENGINEERING REPORT HAS BEEN PREPARED. THIS REPORT SHALL BE OBTAINED THROUGH THE OWNER.
- BEFORE PAVING, PAVEMENT SUBGRADES SHOULD BE PROOF ROLLED. PROOF ROLLING SHOULD BE ACCOMPLISHED WITH A LOADED TANDEM-AXLE DUMP TRUCK (MIN. GROSS WEIGHT 25 TONS) OR OTHER APPROVED RUBBER-TIRED EQUIPMENT PROVIDING AN EQUIVALENT SUBGRADE LOADING. UNSUITABLE AREAS SHOULD BE IMPROVED BY SCARIFICATION AND COMPACTION OR BE REMOVED AND REPLACED WITH ENGINEERED FILL.
- CONTRACTION JOINTS, MADE TRANSVERSE TO THE DIRECTION OF TRAFFIC FLOW, SHOULD BE MADE AT INTERVALS OF 15 FEET OR LESS, PROPERLY REINFORCED WITH LUBRICATED SMOOTH DOWEL BARS (3/4 IN. DIAMETER, 18 INCHES IN LENGTH) AND PLACED 18-INCHES ON CENTER.
- CONSTRUCTION MATERIALS AND PROCEDURES SHOULD BE IN ACCORDANCE WITH SECTION 305 AND 415 OF THE WSDOT STANDARD SPECIFICATIONS.

CONCRETE SIDEWALK SECTION



	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.



EXAMPLE CONCRETE STAIRS
SEE ARCHITECTURAL PLANS FOR DETAILS ON STAIRS AND RAILS

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CIVIL DETAILS PAVING

C501

DPD SUBMISSION

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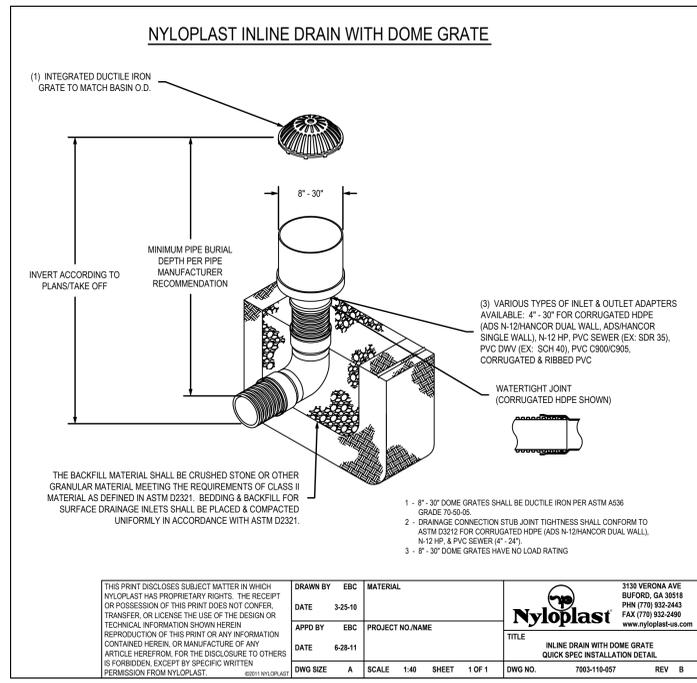
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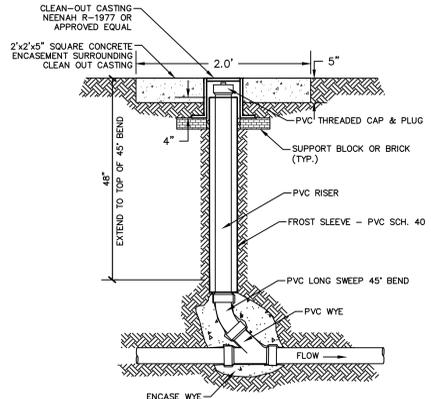
CIVIL DETAILS
UTILITIES

C502

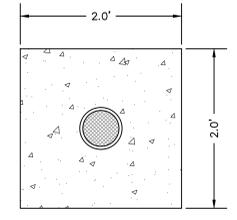
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**STORM SEWER AREA DRAIN
NYLOPLAST INLINE DRAIN WITH DOME GRATE**

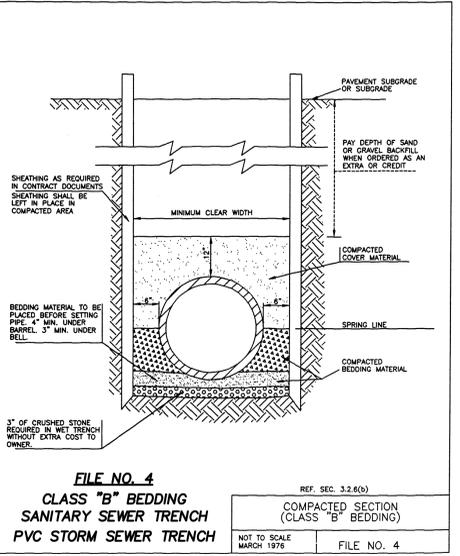
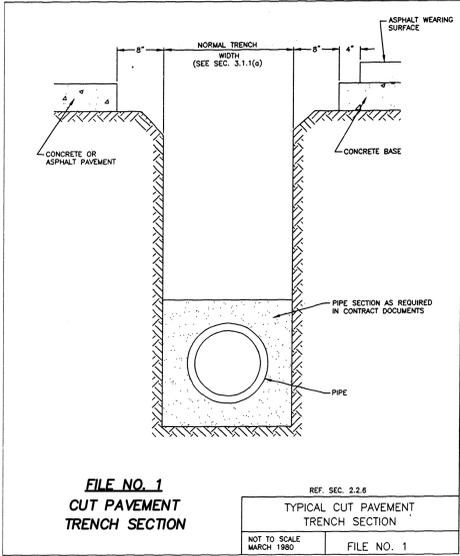
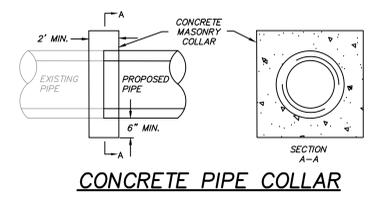


**CLEAN-OUT STRUCTURE DETAIL
SECTION VIEW**



**CLEAN-OUT CASTING ENCASUREMENT
TOP VIEW**

- NOTES:
- PVC RISER PIPE SHALL BE EXTENDED ABOVE GROUND LEVEL INITIALLY & THEN IT SHALL BE CUT BACK TO MATCH FINAL GRADE.
 - POSITION CLEAN-OUTS UPSTREAM OF BENDS, WHEN FEASIBLE.
 - CLEAN-OUT CASTING SHALL BE CAST IRON.
 - CLEAN-OUT CASTING ENCASUREMENT SHALL BE CONSTRUCTED AT FINISH GRADE PER GRADING PLAN.



SPECIFICATIONS

A. GENERAL

1. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE MUNICIPALITY FORTY- EIGHT (48) HOURS PRIOR TO THE START OF CONSTRUCTION.
2. THE CONTRACTOR SHALL INDEMNIFY THE OWNER, THE ENGINEER, AND THE MUNICIPALITY, THEIR AGENTS, ETC. FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, AND TESTING OF THE WORK ON THIS PROJECT.
3. SITE SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. THE BIDDER WILL BE SOLELY RESPONSIBLE FOR DETERMINING QUANTITIES AND SHALL STATE SUCH QUANTITIES IN HIS PROPOSAL. HE SHALL BASE HIS BID ON HIS OWN ESTIMATE OF THE WORK REQUIRED AND SHALL NOT RELY ON THE ENGINEER'S ESTIMATE.
5. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING SOIL CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. A GEOTECHNICAL REPORT MAY BE AVAILABLE FROM THE OWNER. THE CONTRACTOR SHALL ABIDE BY THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
6. THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING ALL SITE CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL COMPARE FIELD CONDITIONS WITH DRAWINGS.
7. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS REQUIRED FOR EXECUTION OF THE WORK. THE CONTRACTOR SHALL CONDUCT HIS WORK ACCORDING TO THE REQUIREMENTS OF THE PERMITS.
8. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL UTILITY INFORMATION SHOWN ON THE PLANS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CALL DIGGER'S HOTLINE AT 1-800-242-8511 TO NOTIFY THE UTILITIES OF HIS INTENTIONS, AND TO REQUEST FIELD STAKING OF EXISTING UTILITIES.
9. CONTRACTOR IS ADVISED THAT ALL MUD AND DEBRIS MUST NOT BE DEPOSITED ONTO THE ADJACENT ROADWAYS PER THE REQUIREMENT OF THE MUNICIPALITY OR OTHER APPROPRIATE GOVERNMENT AGENCIES.
10. ANY ADJACENT PROPERTIES OR ROAD RIGHT-OF-WAYS WHICH ARE DAMAGED DURING CONSTRUCTION MUST BE RESTORED BY THE CONTRACTOR. THE COST OF THE RESTORATION IS CONSIDERED INCIDENTAL, AND SHOULD BE INCLUDED IN THE BID PRICES.

B. PAVING

1. THE PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED ACCORDING TO THE WISCONSIN D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION, AND THE LOCAL ORDINANCES AND SPECIFICATIONS.
2. PAVING SHALL CONSIST OF FINE GRADING PAVEMENT AREAS, INSTALLATION OF CRUSHED STONE BASE, CONCRETE AND/OR BITUMINOUS PAVEMENT, PAVEMENT MARKING, AND CLEANUP. ALL MATERIALS SHALL BE PROVIDED BY THE CONTRACTOR.
3. AGGREGATES USED IN THE CRUSHED AGGREGATE BASE SHALL BE (1-1/4 INCH) DENSE GRADED BASE IN ACCORDANCE WITH SUBSECTION 305.2.2 OF THE STANDARD SPECIFICATIONS.
4. CONCRETE FOR CURB, DRIVEWAY, WALKS AND NON-FLOOR SLABS SHALL BE GRADE A (OR GRADE A2 IF PLACING BY SLIP-FORMED PROCESS) AIR ENTRAINED IN ACCORDANCE WITH SECTION 501 FOR THE STANDARD SPECIFICATIONS, WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,500 PSI.
5. CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING SECTIONS OF THE STANDARD SPECIFICATIONS: SECTION 415 FOR CONCRETE PAVEMENT, SECTION 601 FOR CONCRETE CURB AND GUTTER, AND SECTION 602 FOR CONCRETE SIDEWALKS.
6. ALL FINISHED CONCRETE SHALL BE COVERED WITH A LIQUID CURING COMPOUND CONFORMING TO AASHTO M 148, TYPE 2, IN ACCORDANCE WITH SECTION 415 OF THE STANDARD SPECIFICATIONS.
7. PAVEMENT MARKINGS SHALL BE PAINT IN ACCORDANCE WITH SECTION 646 OF THE STANDARD SPECIFICATIONS. (COLOR SHALL BE AS INDICATED ON THE PLANS.) THE FOLLOWING ITEMS SHALL BE PAINTED WITH COLORS NOTED BELOW:
 PARKING STALLS: WHITE
 PEDESTRIAN CROSSWALKS: WHITE
 LANE STRIPING WHERE SEPARATING TRAFFIC IS MOVING IN OPPOSITE DIRECTIONS: YELLOW
 LANE STRIPING WHERE SEPARATING TRAFFIC IS MOVING IN SAME DIRECTIONS: WHITE
 ADA SYMBOLS: BLUE OR PER LOCAL CODE
 FIRE LANES: PER LOCAL CODE
 EXTERIOR SIDEWALK CURBED, LIGHTPOLE BASES, AND GUARD POSTS: YELLOW

C. GRADING

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2. THE CONTRACTOR SHALL MAINTAIN SITE DRAINAGE THROUGHOUT CONSTRUCTION. THIS MAY INCLUDE THE EXCAVATION OF TEMPORARY DITCHES OR PUMPING TO ALLEVIATE WATER PONDING.
3. SILT FENCE AND OTHER EROSION CONTROL FACILITIES MUST BE INSTALLED PRIOR TO CONSTRUCTION OR ANY OTHER LAND DISTURBING ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL EROSION CONTROL FACILITIES ONCE THE THREAT OF EROSION HAS PASSED WITH THE APPROVAL OF THE GOVERNING AGENCY.
4. THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR THE COMPUTATIONS OF ALL GRADING AND FOR ACTUAL LAND BALANCE, INCLUDING UTILITY TRENCH SPIEL. THE CONTRACTOR SHALL IMPORT OR EXPORT MATERIAL AS NECESSARY TO COMPLETE THE PROJECT.
5. GRADING SHALL CONSIST OF CLEARING AND GRUBBING EXISTING VEGETATION, STRIPPING TOPSOIL, REMOVAL OF EXISTING PAVEMENT OR FOUNDATIONS, IMPORTING OR EXPORTING MATERIAL TO ACHIEVE AND ON-SITE EARTHWORK BALANCE, GRADING THE PROPOSED BUILDING PADS AND PAVEMENT AREAS, SCARIFYING AND FINAL COMPACTION OF THE PAVEMENT SUBGRADE, AND PLACEMENT OF TOPSOIL.
6. NO FILL SHALL BE PLACED ON A WET OR SOFT SUBGRADE. THE SUBGRADE SHALL BE PROOF-ROLLED AND INSPECTED BY THE GEOTECHNICAL ENGINEER BEFORE ANY MATERIAL IS PLACED.
7. ALL FILL SHALL BE CONSIDERED STRUCTURAL FILL AND SHALL BE PLACED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

D. PRIVATE UTILITIES

1. THE PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED ACCORDING TO WISCONSIN ADMINISTRATIVE CODE, SECTION SPS 382-364, LATEST EDITION, THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, LATEST EDITION, AND THE LOCAL ORDINANCES AND SPECIFICATIONS.
2. BEFORE PROCEEDING WITH ANY UTILITY CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE EACH EXISTING LATERAL OR POINT OF CONNECTION AND VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES. IF ANY EXISTING UTILITIES ARE NOT AS SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY FOR POSSIBLE REDESIGN.
3. ALL CONNECTIONS TO EXISTING PIPES AND MANHOLES SHALL BE CORED CONNECTIONS.
4. PROPOSED SANITARY SEWER, WATER MAIN, AND INTERNALLY CONNECTED STORM SEWER SHOWN ON THIS PLAN SHALL TERMINATE AT A POINT FIVE (5) FEET FROM THE EXTERIOR BUILDING WALL. STORM SEWER CONNECTING TO EXTERIOR DOWN SPOUTS SHALL BE PER DETAILS ON THE ARCHITECTURAL PLANS. THE EXACT LOCATION OF ALL DOWN SPOUTS SHALL BE PER THE ARCHITECTURAL PLANS.
5. MATERIALS FOR STORM SEWER SHALL BE AS FOLLOWS:
 STORM SEWER PIPE 30" OR LARGER SHALL BE REINFORCED CONCRETE, ASTM C-76, CLASS III OR GREATER, WITH ELASTOMERIC SEALS CONFORMING TO ASTM C-443.
 STORM SEWER PIPE 24" OR LESS SHALL BE EITHER:
 A) HIGH DENSITY POLYETHYLENE (HDPE) WITH A SMOOTH INTERIOR AND ANNUAL EXTERIOR CORRUGATIONS, SUCH AS ADS N-12 WT. HDPE PIPE SHALL CONFORM TO ASTM F2648 AND F2306. JOINTS SHALL BE WATER TIGHT CONFORMING TO ASTM D3212 WITH ELASTOMERIC SEALS (GASKETS) CONFORMING TO ASTM F477.
 B) POLYVINYL CHLORIDE (PVC) PIPE, ASTM D-3034, SDR-35, WITH ELASTOMERIC PUSH-ON JOINTS CONFORMING TO ASTM D-3212.
 C) REINFORCED CONCRETE, ASTM C-76, CLASS III OR GREATER, WITH ELASTOMERIC SEALS CONFORMING TO ASTM C-443.
 TRENCH SECTION SHALL BE CLASS "C" FOR CONCRETE AND CLASS "B" FOR ALL OTHER MATERIALS.
 INLETS SHALL BE PRE CAST REINFORCED CONCRETE, ASTM C-478.
6. MATERIALS FOR SANITARY SEWER SHALL BE AS FOLLOWS:
 SANITARY SEWER PIPE SHALL BE PVC, ASTM D-3034, SDR-35 WITH RUBBER GASKETED JOINTS, CONFORMING TO ASTM D-3212.
 TRENCH SECTION SHALL BE CLASS "B" BEDDING. CRUSHED STONE CHIPS SHALL BE USED FOR BEDDING MATERIAL. PREFABRICATED WYE CONNECTIONS ARE REQUIRED FOR SANITARY LATERALS.
7. MATERIALS FOR WATER SERVICE SHALL BE AS FOLLOWS:
 WATER SERVICE SHALL BE PVC, SDR-18, CLASS 235, AWWA C-900, WITH ELASTOMERIC JOINTS (ASTM D-3139), WITH A VALVE AT THE SUPPLY MAIN.
 ALL FITTINGS SHALL BE MECHANICAL JOINT, DUCTILE IRON CONFORMING TO AWWA C-111.
 HYDRANTS SHALL BE IN ACCORDANCE WITH THE MUNICIPALITY'S STANDARD SPECIFICATIONS.
 GATE VALVES SHALL BE RESILIENT WEDGE TYPE, AWWA C-509, AND SHALL BE INSTALLED WITH AN ADJUSTABLE VALVE BOX AND COVER MARKED "WATER".
 TRENCH SECTION SHALL CONFORM TO SECTION 4.3.C, FILE NO. 38 OF THE STANDARD SPECIFICATIONS. SAND OR STONE CHIP BEDDING MATERIAL IS REQUIRED.
8. EXTREME CAUTION MUST BE FOLLOWED REGARDING THE COMPACTION OF ALL UTILITY TRENCHES. MECHANICALLY COMPACTED GRANULAR BACKFILL IS REQUIRED UNDER & WITHIN 5 FEET OF ALL PAVEMENT INCLUDING SIDEWALKS. FLOODING OF BACKFILL MATERIAL IS NOT ALLOWED. THE COST OF THIS GRANULAR MATERIAL AND ITS COMPACTION IS CONSIDERED INCIDENTAL AND SHALL BE INCLUDED IN THE COST OF THE PROPOSED UTILITY.
9. UPON COMPLETION OF FINAL PAVING OPERATIONS, THE UTILITY CONTRACTOR SHALL ADJUST ALL MANHOLE AND INLET RIMS AND VALVE BOXES TO FINISHED GRADE.
10. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE OWNER WITH A SET OF MARKED-UP PRINTS SHOWING ALL CHANGES MADE DURING THE CONSTRUCTION PROCESS. ANY CHANGES TO THE DRAWINGS OR ADDITIONAL ITEMS MUST BE REPORTED TO THE OWNER.
11. TRACER WIRE SHALL BE INSTALLED ON ALL BURIED NON-METALLIC SANITARY SEWERS, PRIVATE SANITARY INTERCEPTOR MAIN SEWERS, STORM BUILDING SEWERS, AND PRIVATE STORM INTERCEPTOR MAIN SEWERS THAT DISCHARGE TO MUNICIPAL MAINS. TRACER WIRE SHALL ALSO BE INSTALLED ON ALL BURIED NON-METALLIC WATER SERVICES AND PRIVATE WATER MAINS CONNECTED TO MUNICIPAL SUPPLY SYSTEMS. TRACER WIRE SHALL BE IN ACCORDANCE WITH COMM 82.30(1)(b)(1). TRACER WIRE SHALL BE A MINIMUM OF 18-GAUGE, INSULATED, SINGLE-CONDUCTOR COPPER WIRE OR EQUIVALENT. TRACER WIRE COLOR SHALL BE BLUE FOR POTABLE WATER, GREEN FOR SANITARY SEWER, AND BROWN FOR STORM SEWER.

E. EROSION CONTROL

1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING COPIES OF ALL PERMITS, INCLUDING WPDES DISCHARGE PERMITS (IF APPLICABLE), AND THE CITY OF MILWAUKEE EROSION CONTROL PERMIT. CONTRACTOR IS RESPONSIBLE FOR ABIDING BY ALL PERMIT REQUIREMENTS AND RESTRICTIONS.
2. ALL INSTALLATION AND MAINTENANCE OF EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE APPLICABLE WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) TECHNICAL STANDARD.
3. ALL EROSION CONTROL FACILITIES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT AND WARRANTY PERIOD IN CONFORMANCE WITH THE DNR WPDES GENERAL PERMIT.
4. ALL EROSION AND SEDIMENTATION CONTROL PRACTICES SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 0.5 INCHES OF RAIN OR MORE DURING A 24 HOUR PERIOD. NEEDED REPAIRS WILL BE MADE IMMEDIATELY.
5. ALL DISTURBED GROUND LEFT INACTIVE FOR THIRTY DAYS OR MORE SHALL BE STABILIZED WITH TOPSOIL, SEED, AND MULCH IN ACCORDANCE WITH THE WDNR TECHNICAL STANDARDS 1059 AND 1058.
6. TEMPORARY SEED MIXTURE SHALL CONFORM TO 630.2.1.5.1.4 OF THE WISDOT STANDARD SPECIFICATIONS. USE WINTER WHEAT OR RYE FOR FALL PLANTINGS STARTED AFTER SEPTEMBER 1.
7. DISTURBED AREAS THAT CANNOT BE STABILIZED WITH A DENSE GROWTH OF VEGETATION BY SEEDING AND MULCHING DUE TO TEMPERATURE OR TIMING OF CONSTRUCTION, SHALL BE STABILIZED BY APPLYING ANIONIC POLYACRYLAMIDE (PAM) IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1059.
8. SEDIMENT WILL BE REMOVED FROM BEHIND THE SILT FENCE AND DITCH CHECKS WHEN IT REACHES HALF THE HEIGHT OF THE FENCE/BALE. THE SILT FENCE AND DITCH CHECKS SHALL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
9. ALL WATER FROM CONSTRUCTION DEWATERING SHALL BE TREATED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1061 PRIOR TO DISCHARGE TO WATERS OF THE STATE, WETLANDS, OR OFFSITE.
10. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED. DEPENDING ON HOW THE CONTRACTOR GRADES THE SITE, IT MAY BE NECESSARY TO INSTALL TEMPORARY SEDIMENT TRAPS IN VARIOUS LOCATIONS THROUGHOUT THE PROJECT. TEMPORARY SEDIMENT TRAPS SHALL BE DESIGNED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1063.
11. ANY SEDIMENT TRACKED ONTO A PUBLIC OR PRIVATE ROAD SHOULD BE REMOVED BY STREET CLEANING, NOT FLUSHING, BEFORE THE END OF EACH WORKING DAY.
12. DUST CONTROL SHALL BE PROVIDED AS NECESSARY IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1068.
13. FINAL STABILIZATION OF LANDSCAPED AREAS SHALL BE IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN.
14. ALL SEEDED AREAS WILL BE FERTILIZED, RESEEDED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE APPROVED LANDSCAPE PLAN TO MAINTAIN A VIGOROUS DENSE VEGETATIVE COVER.

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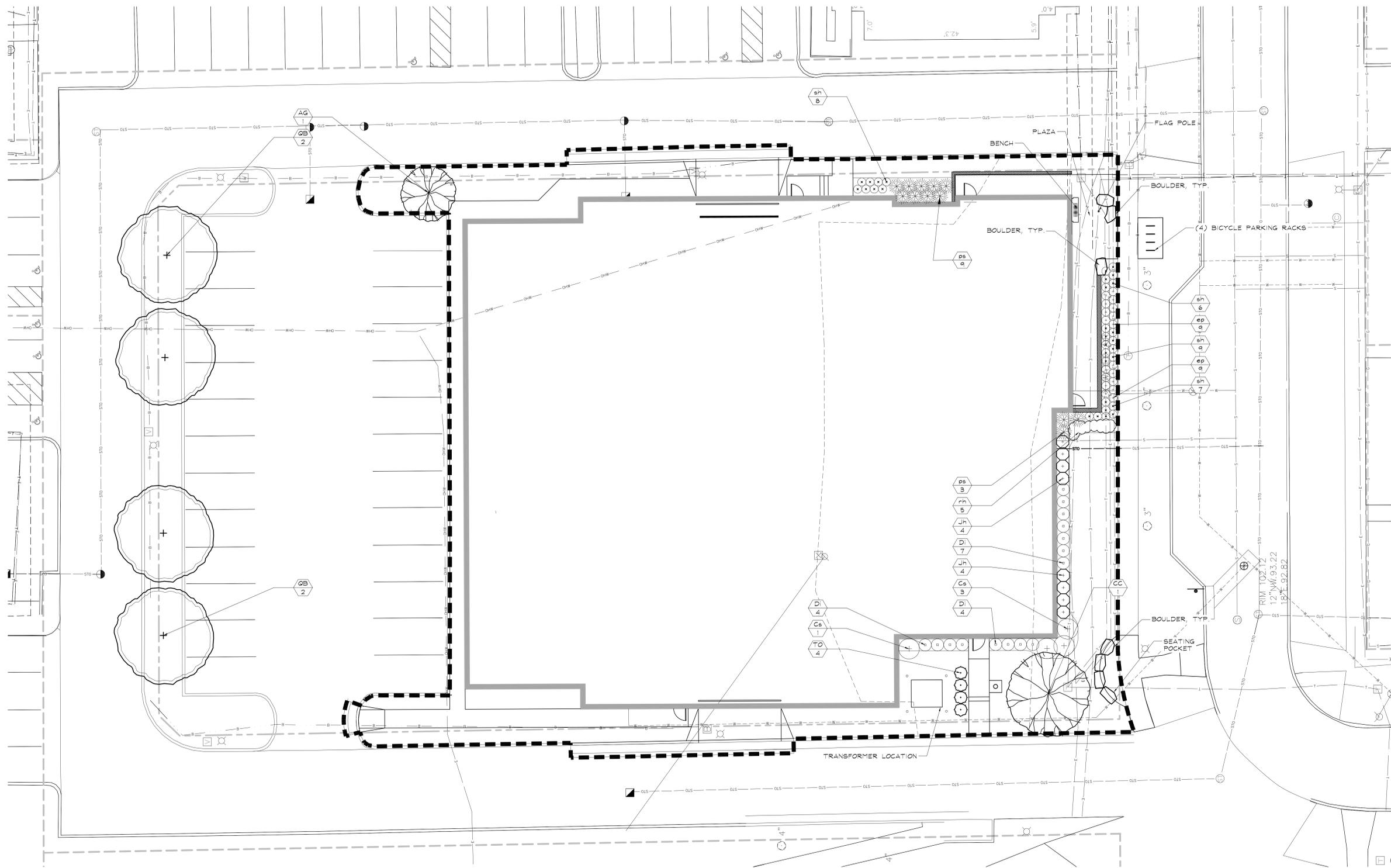
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KAP PROJECT NO. 14-125
 SCALE AS NOTED
 DATE 02.27.15

CIVIL SPECIFICATIONS

C600

DPD SUBMISSION



LANDSCAPE PLANT SCHEDULE

Symbol	Botanical Name	Common Name	Size/Root	Qty	Comments
TREES					
AG	<i>Amelanchier X grandiflora</i>	Apple Serviceberry	2.5" CAL.	1	
CC	<i>Carpinus caroliniana</i>	American Hornbeam	2.5" CAL.	1	Location contingent on transformer location
TO	<i>Thuja occidentalis 'Holmstrup'</i>	Holmstrup Arborvitae	5' HT.	4	Location contingent on transformer location
QB	<i>Quercus bicolor</i>	Swamp White Oak	2.5" CAL.	4	
SHRUBS					
Ca	<i>Cornus sericea 'Isanti'</i>	Isanti Redtwig Dogwood	5 GAL-CG	3	
Di	<i>DierVilla lonicera</i>	Low Bush Honeysuckle	3 GAL-CG	15	
Jh	<i>Juniperus horizontalis 'Bar Harbor'</i>	Bar Harbor Creeping Juniper	3 GAL-CG	8	
PERENNIALS					
ep	<i>Echinacea purpurea</i>	Purple Coneflower	1 GAL-CG	18	
ps	<i>Panicum virgatum 'Shenandoah'</i>	Shenandoah Switch Grass	1 GAL-CG	12	
rh	<i>Rudbeckia fulgida var. Sullivanti</i>	Godstrum Black Eyed Susan	1 GAL-CG	5	
sh	<i>Sporobolus heterolepis</i>	Prairie Dropseed	1 QT-CG	30	

NOTES:

- A. ALL BOULDERS TO BE SET LEVEL
- B. SEED, TOPSOIL, FERTILIZE AND MULCH DISTURBED AREA WITH TURF

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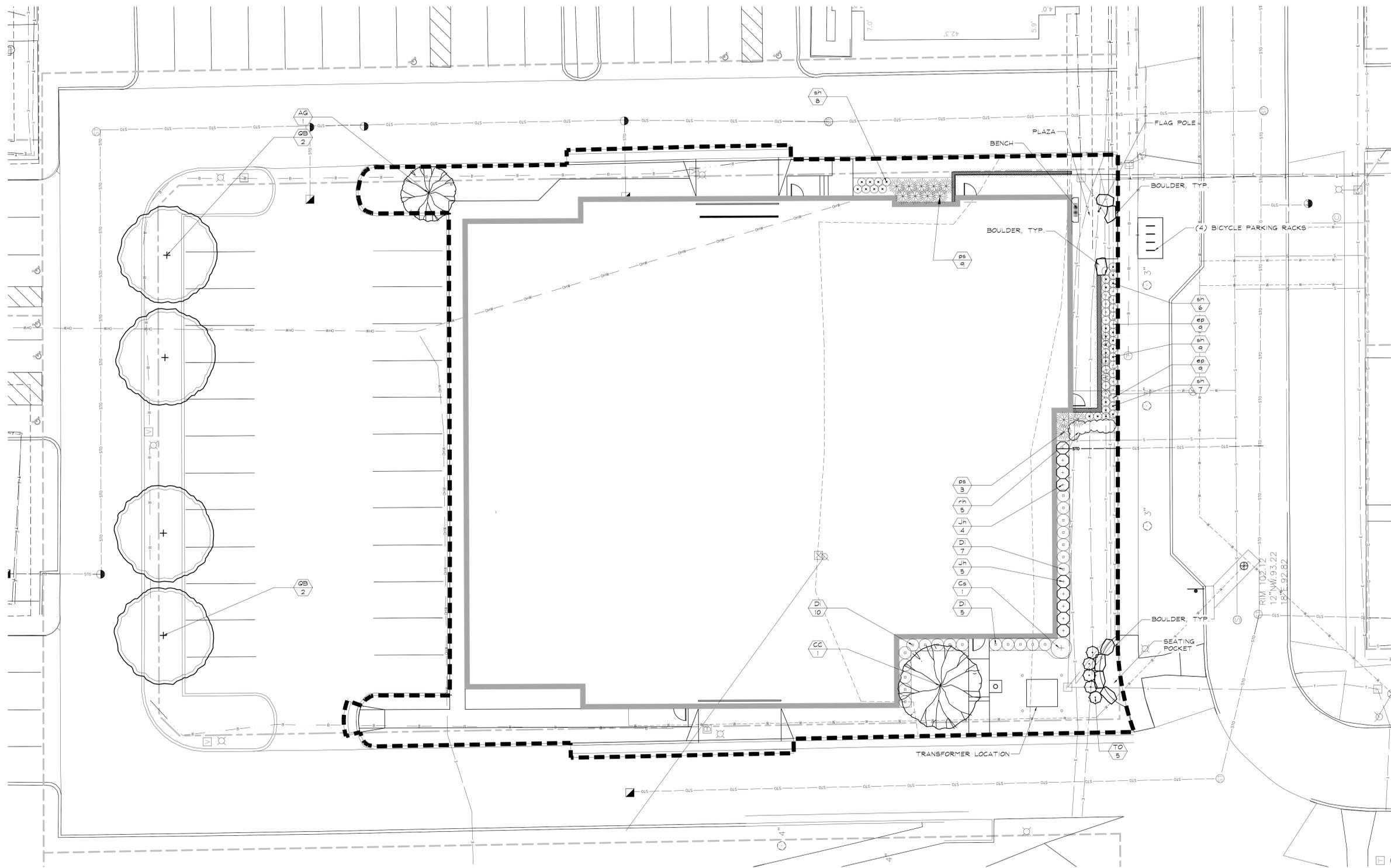
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LANDSCAPE PLAN
 OPTION 1

L101

DPD SUBMISSION

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LANDSCAPE PLANT SCHEDULE

Symbol	Botanical Name	Common Name	Size/Root	Qty	Comments
TREES					
AG	Amelanchier X grandiflora	Apple Serviceberry	2.5" CAL.	1	
CC	Carpinus caroliniana	American Hornbeam	2.5" CAL.	1	Location contingent on transformer location
TO	Thuja occidentalis 'Holmstrup'	Holmstrup Arborvitae	5' HT.	5	Location contingent on transformer location
QB	Quercus bicolor	Swamp White Oak	2.5" CAL.	4	
SHRUBS					
Cs	Cornus sericea 'Isanti'	Isanti Redtwig Dogwood	5 GAL-CG	1	
Di	Dierilla lonicera	Low Bush Honeysuckle	3 GAL-CG	22	
Jh	Juniperus horizontalis 'Bar Harbor'	Bar Harbor Creeping Juniper	3 GAL-CG	9	
PERENNIALS					
ep	Echinacea purpurea	Purple Coneflower	1 GAL-CG	18	
ps	Panicum virgatum 'Shenandoah'	Shenandoah Switch Grass	1 GAL-CG	12	
rh	Rudbeckia fulgida var. Sullivanti	Goldstrum Black Eyed Susan	1 GAL-CG	5	
sh	Sporobolus heterolepis	Prairie Dropseed	1 QT-CG	30	

NOTES:

- A. ALL BOULDERS TO BE SET LEVEL
- B. SEED, TOPSOIL, FERTILIZE AND MULCH DISTURBED AREA WITH TURF

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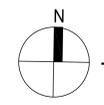
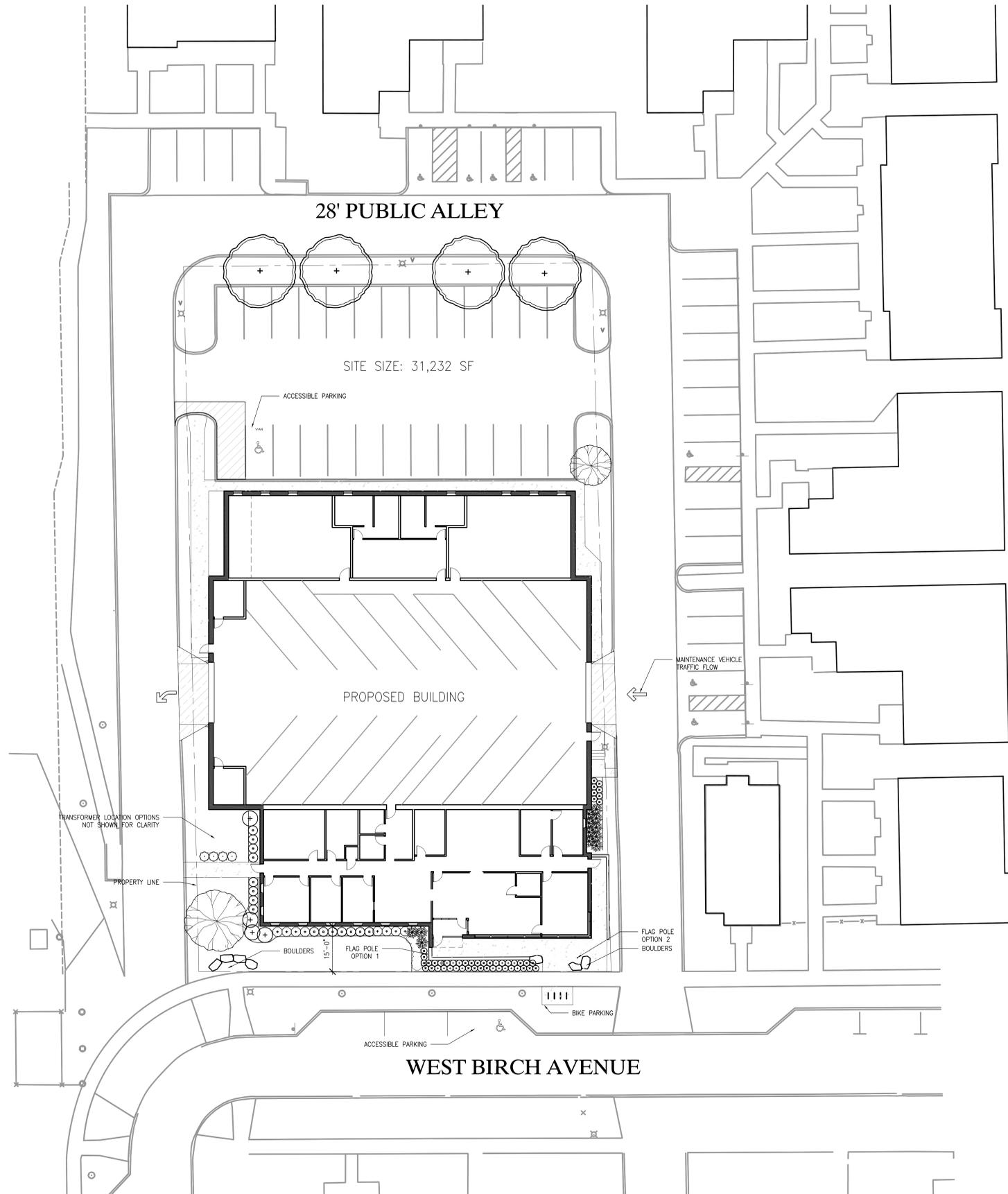
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**LANDSCAPE PLAN
 OPTION 2**

L102

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1 SITE PLAN
1/8"=1'-0"

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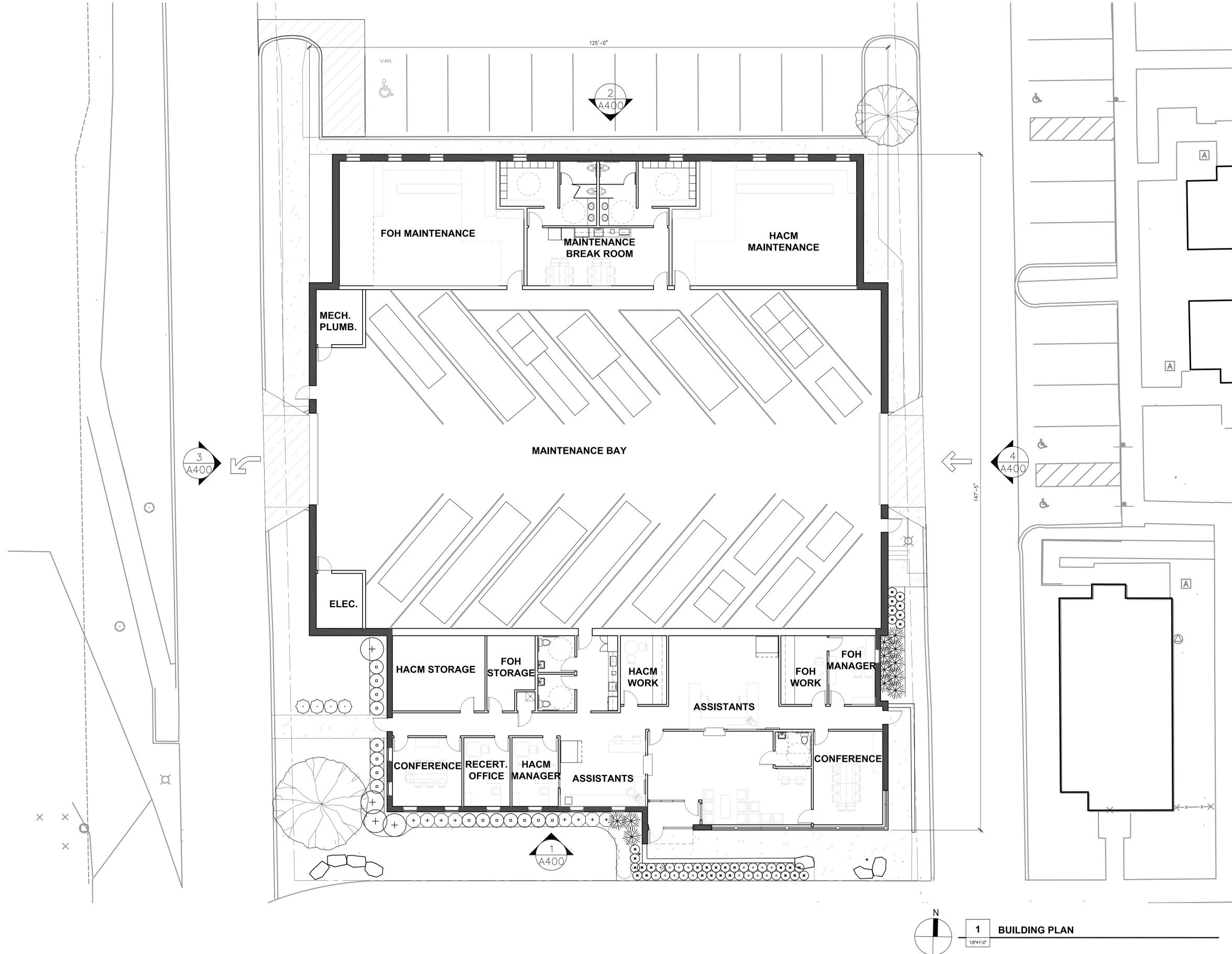
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ARCHITECTURAL
 SITE
 PLAN

A000

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1 BUILDING PLAN
1/8"=1'-0"

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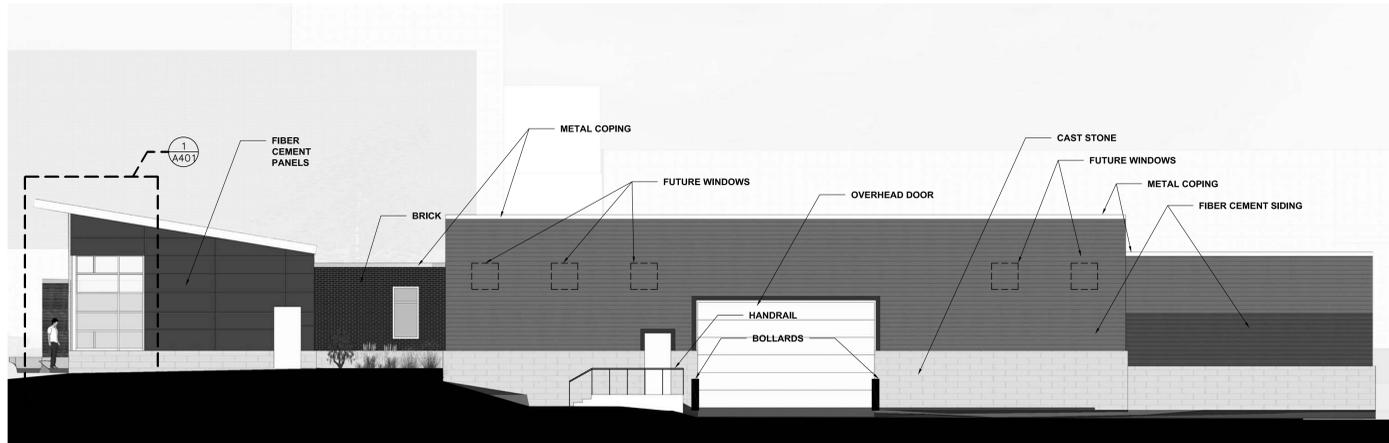
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BUILDING PLAN

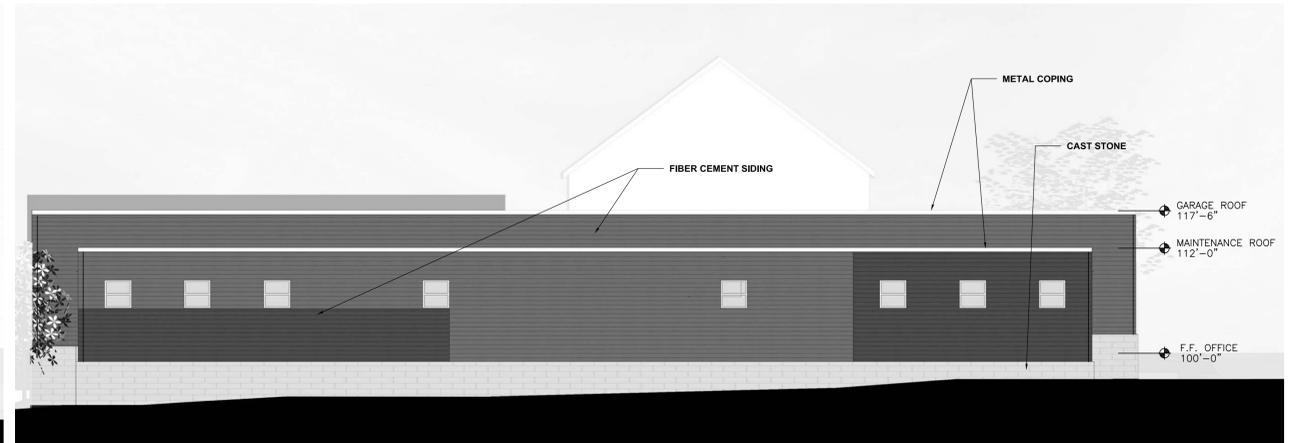
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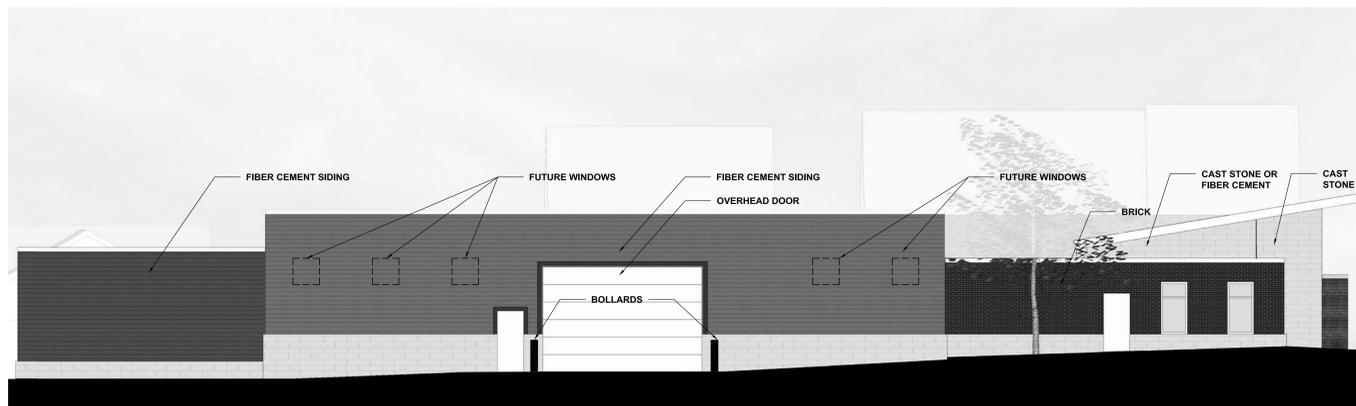
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4 EAST ELEVATION
1/8"=1'-0"



2 NORTH ELEVATION
1/8"=1'-0"



3 WEST ELEVATION
1/8"=1'-0"



1 SOUTH ELEVATION
1/8"=1'-0"

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BUILDING ELEVATIONS

A400

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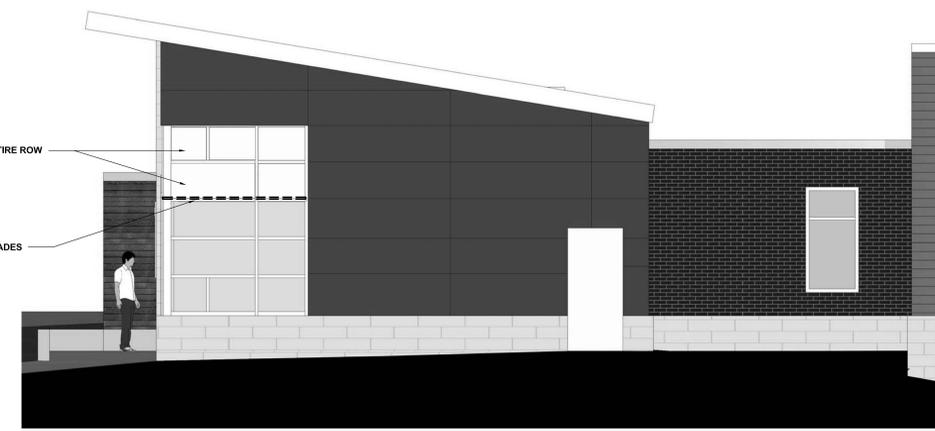
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2 ENLARGED SOUTH ELEVATION
 1/4"=1'-0"



1 ENLARGED EAST ELEVATION
 1/4"=1'-0"

REVISIONS	DATE	BY	DESCRIPTION
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DPD SUBMISSION

ENLARGED
 ELEVATIONS

A401



KINDNESS
architecture + planning

1 BUILDING PERSPECTIVE
NTS

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BUILDING
PERSPECTIVE

A402

DPD SUBMISSION