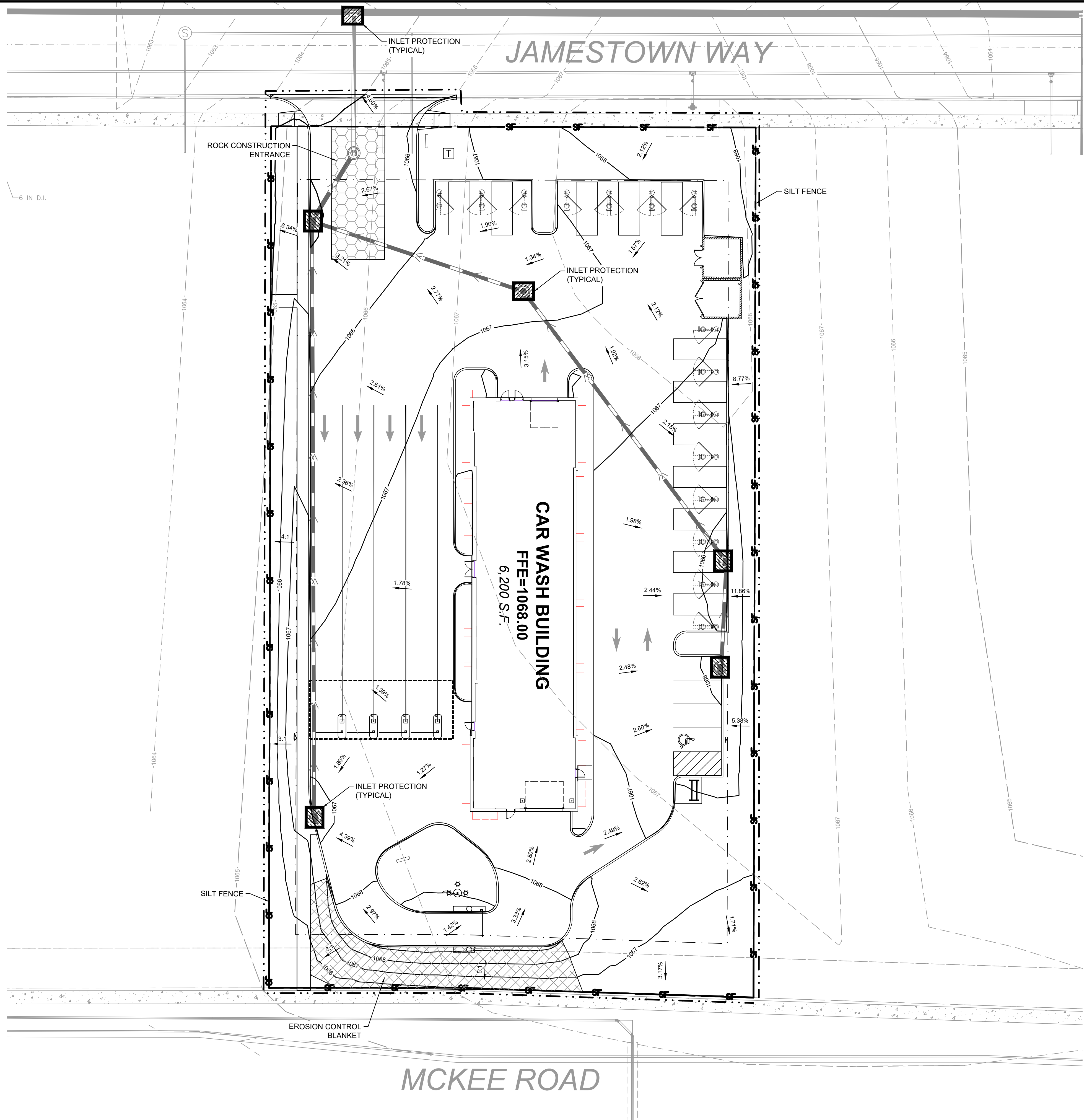


K:\TWC_LDEV\Crew Carwash\Fitchburg\3_Design\CAD\PlanSheets\C3-EROS PH2 PLAN.dwg January 20, 2025 - 5:34pm

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LEGEND

	ROCK ENTRANCE
	EROSION CONTROL BLANKET
	INLET PROTECTION
	SILT FENCE
	LIMITS OF DISTURBANCE
	SAFETY FENCE
	BIOROLL

EROSION CONTROL PLAN NOTES

- THE STORM WATER POLLUTION PREVENTION PLAN ("SWPPP") IS COMPRISED OF THE EROSION CONTROL PLAN, THE STANDARD DETAILS, THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN THE SPECIFICATIONS OF THE SWPPP, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
- ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH LAND DISTURBING ACTIVITIES SHALL OBTAIN A COPY OF THE SWPPP AND NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT, AND BECOME FAMILIAR WITH THEIR CONTENTS.
- BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE AND LOCAL REQUIREMENTS, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY, ENGINEER OR OWNER.
- SITE ENTRY AND EXIT LOCATIONS SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT THE TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAYS. SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO A PUBLIC ROADWAY FROM THE CONSTRUCTION SITE MUST BE REMOVED AS SOON AS PRACTICABLE. WHEN WASHING IS REQUIRED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO A PUBLIC ROADWAY, IT SHALL BE DONE IN AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN. ANY FINES IMPOSED FOR DISCHARGING SEDIMENT ONTO A PUBLIC RIGHT OF WAY SHALL BE PAID BY THE CONTRACTOR.
- TEMPORARY SEEDING OR OTHER APPROVED METHODS OF STABILIZATION SHALL BE INITIATED WITHIN 7 DAYS OF THE LAST DISTURBANCE ON ANY AREA OF THE SITE.
- THE CONTRACTOR SHALL MINIMIZE LAND DISTURBANCE AND CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
- CONTRACTOR SHALL DENOTE ON THE PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
- ALL WASH WATER FROM THE CONSTRUCTION SITE (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED BEFORE DISPOSAL.
- SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLotation BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
- STAGING AREAS, STOCKPILES, SPOILS, ETC. SHALL BE LOCATED OUTSIDE OF DRAINAGE WAYS SUCH THAT STORM WATER RUNOFF WILL NOT BE ADVERSELY AFFECTED. PROVIDE STABILIZATION MEASURES SUCH AS PERIMETER EROSION CONTROL BMP'S, SEEDING, OR OTHER COVERING AS NECESSARY TO PREVENT EROSION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ESTABLISHING ANY EROSION CONTROL BMP DISTURBED DURING CONSTRUCTION OPERATIONS. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DEFICIENCIES IN THE ESTABLISHED EROSION CONTROL MEASURES THAT MAY LEAD TO UNAUTHORIZED DISCHARGE OF STORM WATER POLLUTANTS. UNAUTHORIZED POLLUTANTS INCLUDE (BUT ARE NOT LIMITED TO) EXCESS CONCRETE DUMPING, CONCRETE RESIDUE, PAINTS, SOLVENTS, GREASES, FUELS, LUBRICANT OILS, PESTICIDES, AND SOLID WASTE MATERIALS.
- EROSION CONTROL BMP'S SHOWN ON THESE PLANS SHALL BE INSTALLED PRIOR TO THE START OF LAND-DISTURBING ACTIVITIES ON THE PROJECT, AND INITIATED AS SOON AS PRACTICABLE.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION, AND SHALL MAINTAIN COMPLIANCE WITH APPLICABLE LAWS AND REGULATIONS FOR THE DURATION OF CONSTRUCTION.
- THE CONTRACTOR SHALL FIELD ADJUST AND/OR PROVIDE ADDITIONAL EROSION CONTROL BMP'S AS NEEDED TO PREVENT EROSION AND OFF-SITE SEDIMENT DISCHARGE FROM THE CONSTRUCTION SITE. LOG AND RECORD ANY ADJUSTMENTS AND DEVIATIONS FROM THE APPROVED EROSION CONTROL PLANS WITHIN THE SWPPP DOCUMENTS STORED IN THE JOB SITE TRAILER.

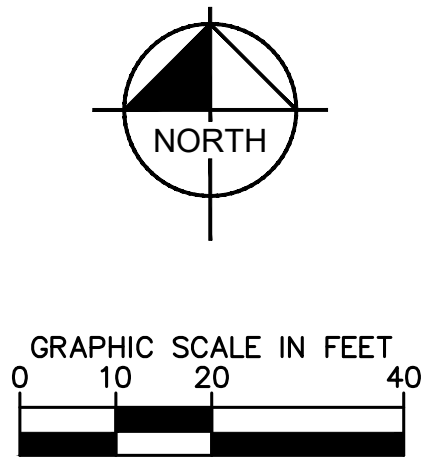
SWPPP UPDATES & AMENDMENTS

THE CONTRACTOR MUST UPDATE THE SWPPP BY NOTING ON THE SITE MAPS IN THE JOB SITE BINDER TO REFLECT THE PROGRESS OF CONSTRUCTION ACTIVITIES AND GENERAL CHANGES TO THE PROJECT SITE FOR THE DURATION OF LAND DISTURBING ACTIVITIES. AT A MINIMUM, UPDATES SHALL BE MADE DAILY TO TRACK CONSTRUCTION PROGRESS DESCRIBED IN THE SEQUENCE OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR NOTING THE LOCATION OF THE JOB SITE TRAILER, TEMPORARY PARKING & LAYDOWN AREAS, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL & MATERIAL STORAGE, SOLID WASTE CONTAINERS, AND OTHER CONSTRUCTION RELATED FACILITIES THAT MAY IMPACT STORMWATER RUNOFF.

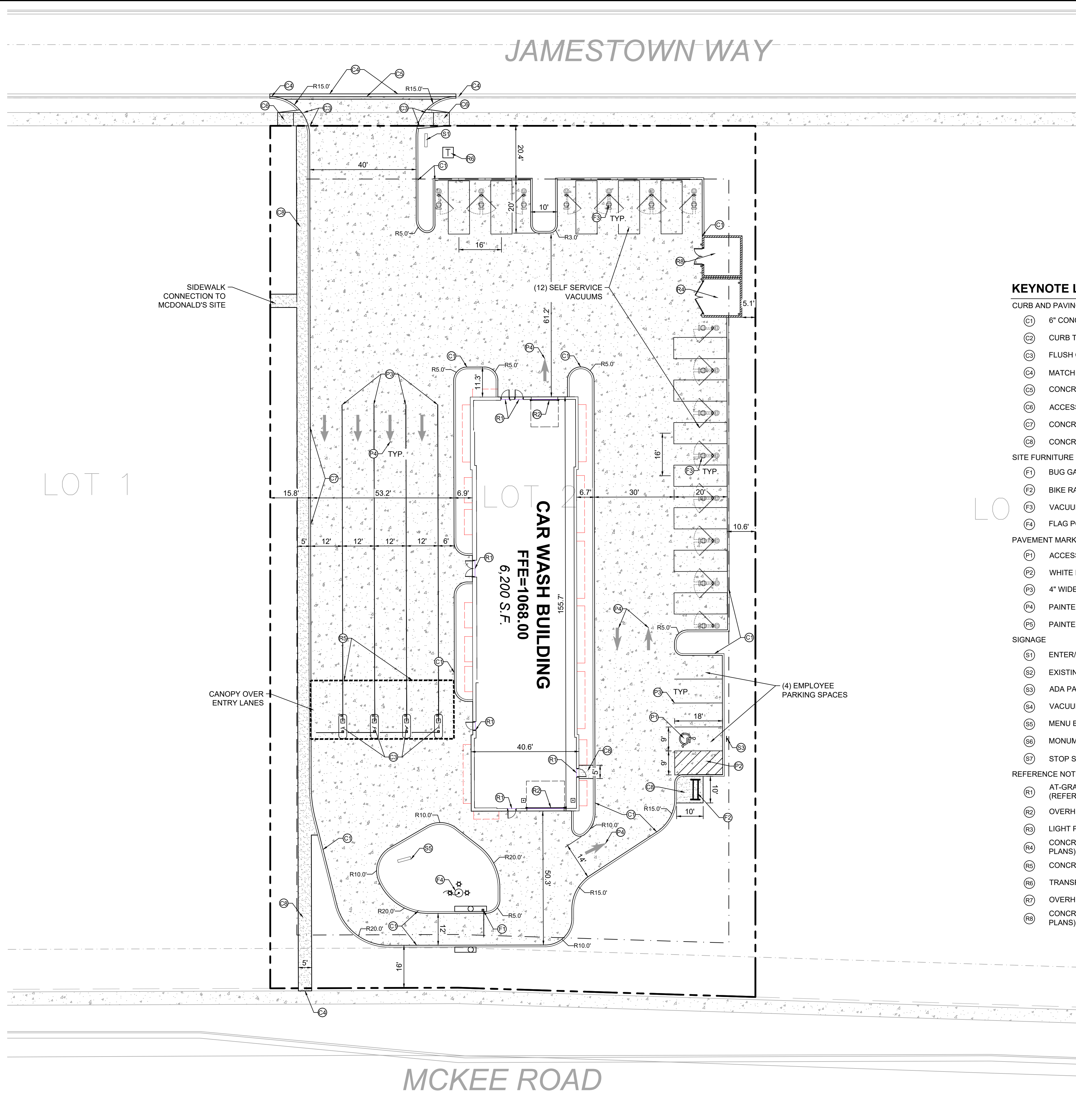
PHASE 2 SEQUENCE OF CONSTRUCTION

- TEMPORARILY SEED THROUGHOUT CONSTRUCTION. DENUDED AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE.
- CONSTRUCT UNDERGROUND SITE UTILITIES AND STORM SEWER, INCLUDING UNDERGROUND STORMWATER MANAGEMENT SYSTEM.
- INSTALL APPROPRIATE INLET PROTECTION AT ANY NEW STORM SEWER STRUCTURES AS EACH STRUCTURE IS CONSTRUCTED.
- COMPLETE SITE GRADING AND PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
- PLACE PAVEMENT BASE MATERIAL AND INSTALL SUBDRAINAGE SYSTEM.
- CONSTRUCT PAVEMENTS, CURB & GUTTER, AND SIDEWALKS.
- AS APPROPRIATE, REPLACE & MAINTAIN INLET PROTECTION DEVICES WITHIN PAVED AREAS AS WORK PROGRESSES.
- COMPLETE FINAL GRADING AND INSTALL OF PERMANENT STABILIZATION (SEEDING, SODDING, ETC.) WITHIN LANDSCAPED AREAS.
- WHEN THE SITE HAS ACHIEVED FINAL STABILIZATION AS DEFINED BY THE APPLICABLE EROSION CONTROL PERMITS, REMOVE ALL REMAINING TEMPORARY EROSION & SEDIMENT CONTROL BMP'S AND RE-STABILIZE ANY AREAS DISTURBED BY THE REMOVAL.

NOTE: THE SEQUENCE OF CONSTRUCTION IS INTENDED TO CONVEY THE GENERAL CONCEPTS OF THE EROSION CONTROL DESIGN AND SHALL NOT BE RELIED UPON FOR CONSTRUCTION PURPOSES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETAILED PHASING AND CONSTRUCTION SEQUENCING NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY PRIOR TO AND/OR DURING CONSTRUCTION IF ANY ADDITIONAL INFORMATION ON THE CONSTRUCTION SEQUENCE IS NECESSARY.



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		KHA PROJECT 161033019	DATE 01/20/2025	SCALE AS NOTED	DESIGNED BY JFJ
EROSION AND SEDIMENT CONTROL PLAN - PHASE 2		CREW CARWASH FITCHBURG PREPARED FOR CREW CARWASH FITCHBURG		SHEET NUMBER C300	



LEGEND

	PROPERTY LINE
	BUILDING SETBACK LINE
	PARKING SETBACK LINE
	DRAINAGE AND UTILITY EASEMENT
	PROPOSED FENCE
	RETAINING WALL
	PROPOSED CURB AND GUTTER
	HEAVY DUTY CONCRETE PAVEMENT SEE DETAILS FOR SECTION
	CONCRETE SIDEWALK SEE DETAILS FOR SECTION

- SITE PLAN NOTES**
- REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF STOOPS, TRUCK DOCKS, TRASH ENCLOSURES & PRECISE BUILDING DIMENSIONS. REFER TO THE SITE ELECTRICAL PLAN FOR LOCATIONS OF PROPOSED LIGHT POLES, CONDUITS, AND ELECTRICAL EQUIPMENT.
 - REFER TO CERTIFIED SITE SURVEY OR PLAT FOR EXACT LOCATION OF EXISTING EASEMENTS, PROPERTY BOUNDARY DIMENSIONS, AND ADJACENT RIGHT-OF-WAY & PARCEL INFORMATION.
 - DIMENSIONS AND RADII ARE DRAWN TO THE FACE OF CURB, UNLESS OTHERWISE NOTED. DIMENSIONS ARE ROUNDED TO THE NEAREST TENTH FOOT, AND AREAS ARE ROUNDED TO THE NEAREST SQUARE FOOT.
 - UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATING EXISTING SITE IMPROVEMENTS THAT CONFLICT WITH THE PROPOSED WORK, INCLUDING BUT NOT LIMITED TO TRAFFIC SIGNS, LIGHT POLES, ABOVEGROUND UTILITIES, ETC. PERFORM WORK IN ACCORDANCE WITH GOVERNING AUTHORITIES REQUIREMENTS AND PROJECT SITE WORK SPECIFICATIONS. COST SHALL BE INCLUDED IN BASE BID.
 - TYPICAL PARKING STALL DIMENSIONS SHALL BE 9.0- FEET IN WIDTH AND 20- FEET IN LENGTH UNLESS OTHERWISE INDICATED.
 - MONUMENT SIGN(S) ARE DETAILED ON THE ARCHITECTURAL PLANS AND ARE SHOWN FOR GRAPHICAL & INFORMATIONAL PURPOSES ONLY. CONTRACTOR TO VERIFY SIGN DIMENSIONS, LOCATION AND REQUIRED PERMITS WITH THE OWNER.

- KEYNOTE LEGEND**
- CURB AND PAVING**
- C1 6" CONCRETE CURB & GUTTER (TYP.) (SEE DETAIL)
 - C2 CURB TRANSITION FROM 6" TO FLUSH (SEE GRADING PLAN)
 - C3 FLUSH CURB AND WALK (SEE DETAIL)
 - C4 MATCH EXISTING EDGE OF PAVEMENT/ CURB & GUTTER
 - C5 CONCRETE DRIVEWAY APRON (SEE DETAIL)
 - C6 ACCESSIBLE CURB RAMP
 - C7 CONCRETE ROLL CURB
 - C8 CONCRETE SIDEWALK
- SITE FURNITURE**
- F1 BUG GATE (BY OWNER)
 - F2 BIKE RACK
 - F3 VACUUM ASSEMBLY
 - F4 FLAG POLE W/ UPLIGHTING (BY OWNER)
- PAVEMENT MARKINGS**
- P1 ACCESSIBLE PARKING SYMBOL
 - P2 WHITE PAINTED CROSS-HATCH AREA
 - P3 4" WIDE PAINTED WHITE SOLID LINE, TYP.
 - P4 PAINTED DIRECTIONAL ARROW
 - P5 PAINTED CROSSWALK
- SIGNAGE**
- S1 ENTER/OPEN DIRECTIONAL SIGN (REFER TO SIGNAGE PLANS)
 - S2 EXISTING TRAFFIC SIGN
 - S3 ADA PARKING SIGN (TYP)
 - S4 VACUUMS DIRECTIONAL SIGN (REFER TO SIGNAGE PLANS)
 - S5 MENU BOARD SIGN (REFER TO SIGNAGE PLANS)
 - S6 MONUMENT SIGN (REFER TO SIGNAGE PLANS)
 - S7 STOP SIGN
- REFERENCE NOTES**
- R1 AT-GRADE BUILDING ENTRY & STOOP (REFER TO ARCH & STRUCTURAL PLANS)
 - R2 OVERHEAD VEHICLE DOOR (REFER TO ARCH PLANS)
 - R3 LIGHT POLES (REFER TO ELECTRICAL SITE PLAN)
 - R4 CONCRETE BLOCK TRASH ENCLOSURE (REFER TO ARCH PLANS)
 - R5 CONCRETE ISLAND & GATE ARMS (BY OWNER)
 - R6 TRANSFORMER PAD (REFER TO ELECTRICAL / STRUCTURAL)
 - R7 OVERHEAD CANOPY (REFER TO ARCH PLANS)
 - R8 CONCRETE BLOCK OUTDOOR STORAGE (REFER TO ARCH PLANS)

PROPERTY SUMMARY

TOTAL PROPERTY AREA	1.36 AC / 59,322 SF
DISTURBED AREA	1.44 AC / 62,540 SF
EXISTING IMPERVIOUS AREA	0.00 AC / 0%
EXISTING PERVIOUS AREA	1.36 AC / 59,322 SF / 100%
PROPOSED IMPERVIOUS AREA	0.95 AC / 41,577 SF / 70%
PROPOSED PERVIOUS AREA	0.41 AC / 17,745 SF / 30%

SITE DATA

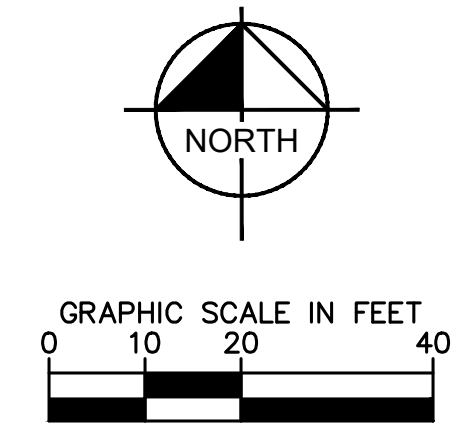
ZONING	PD - PLANNED DEVELOPMENT
PROPOSED LAND USE	CAR WASH
BUILDING SETBACKS	RIGHT OF WAY = 20' SIDE = 10'

BUILDING DATA

TOTAL BUILDING AREA	6,200 SF
FLOOR AREA RATIO	0.10

PARKING SUMMARY

EMPLOYEE PARKING	4 SPACES
VACUUM PARKING	12 SPACES
TOTAL PROPOSED PARKING	16 SPACES



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PHONE: 651-454-4197
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SITE PLAN

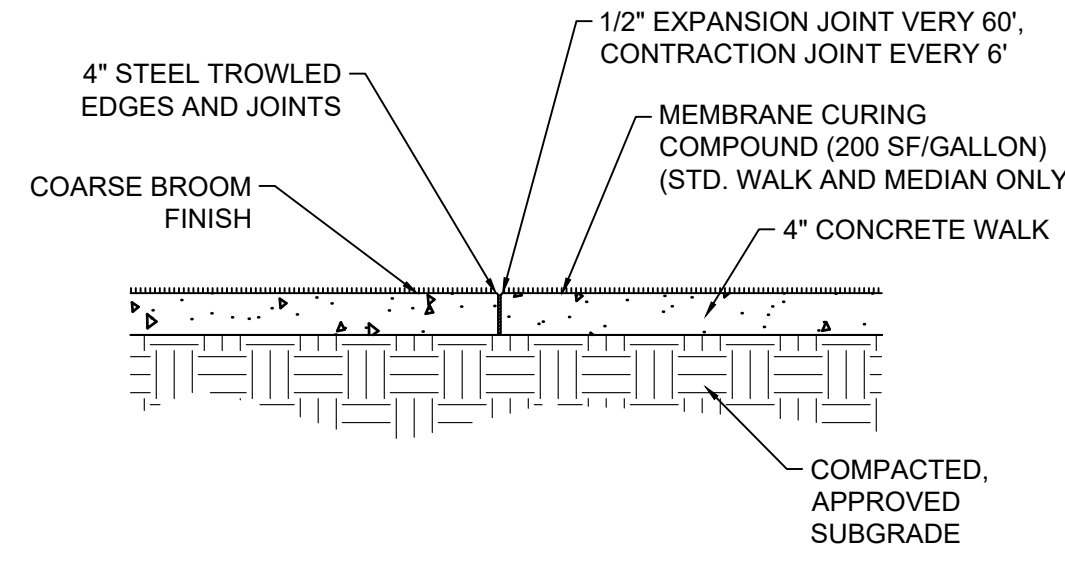
CREW CARWASH FITCHBURG
PREPARED FOR
CREW CARWASH FITCHBURG

PROJECT: KHA PROJECT 161033019
DATE: 01/20/2025
SCALE: AS SHOWN
DESIGNED BY: JF/J
DRAWN BY: JF/J
CHECKED BY: DLE

REVISIONS

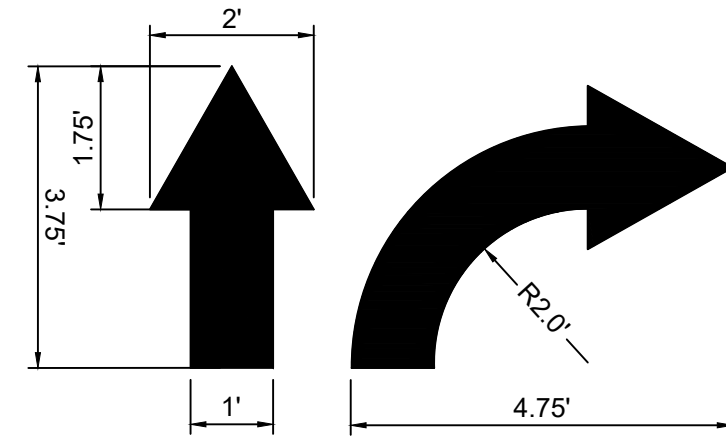
No.	REVISIONS	DATE	BY

SHEET NUMBER
C400



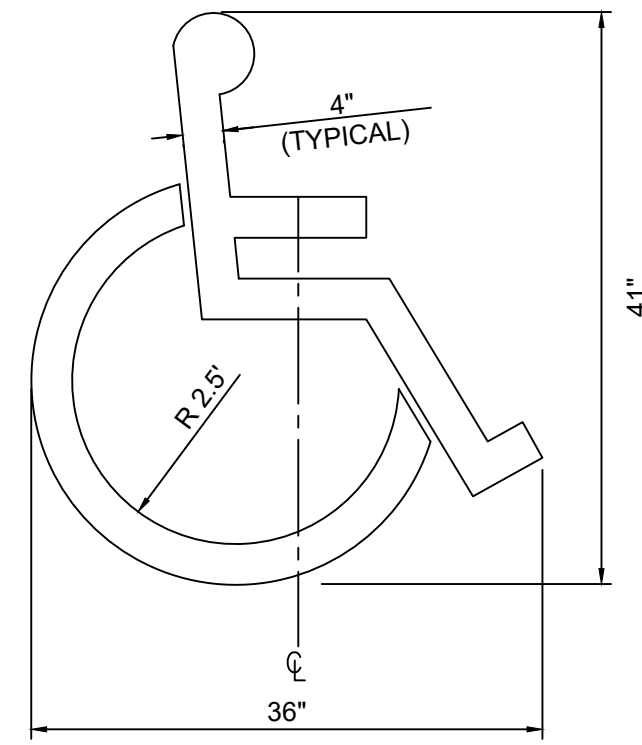
NOTES:
1. ALL EXCAVATION, COMPACTION AND BACKFILL INCIDENTAL TO UNIT PRICE BID FOR 4" SIDEWALK

1 CONCRETE SIDEWALK NO SCALE

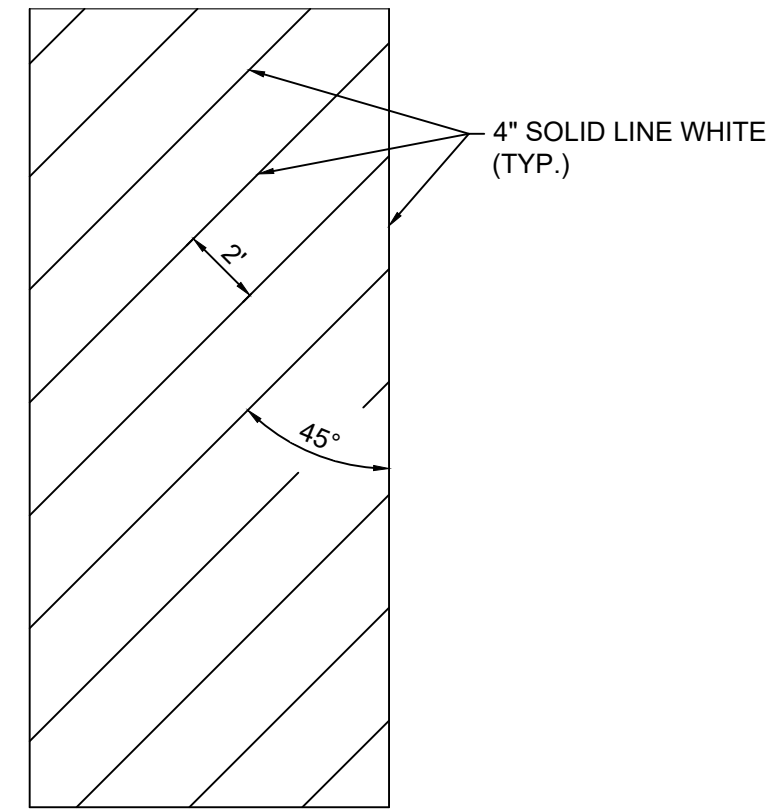


NOTE: ALL TRAFFIC FLOW ARROWS TO BE SOLID WHITE REFLECTIVE TRAFFIC PAINT AS PER DIMENSIONS ABOVE

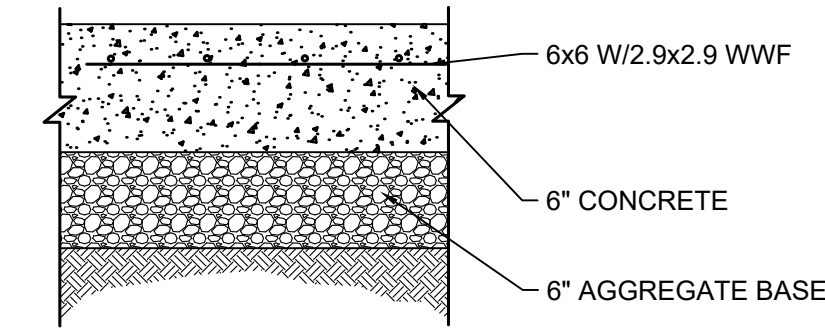
2 TRAFFIC ARROW NO SCALE



3 ACCESSIBLE PARKING SYMBOL NO SCALE

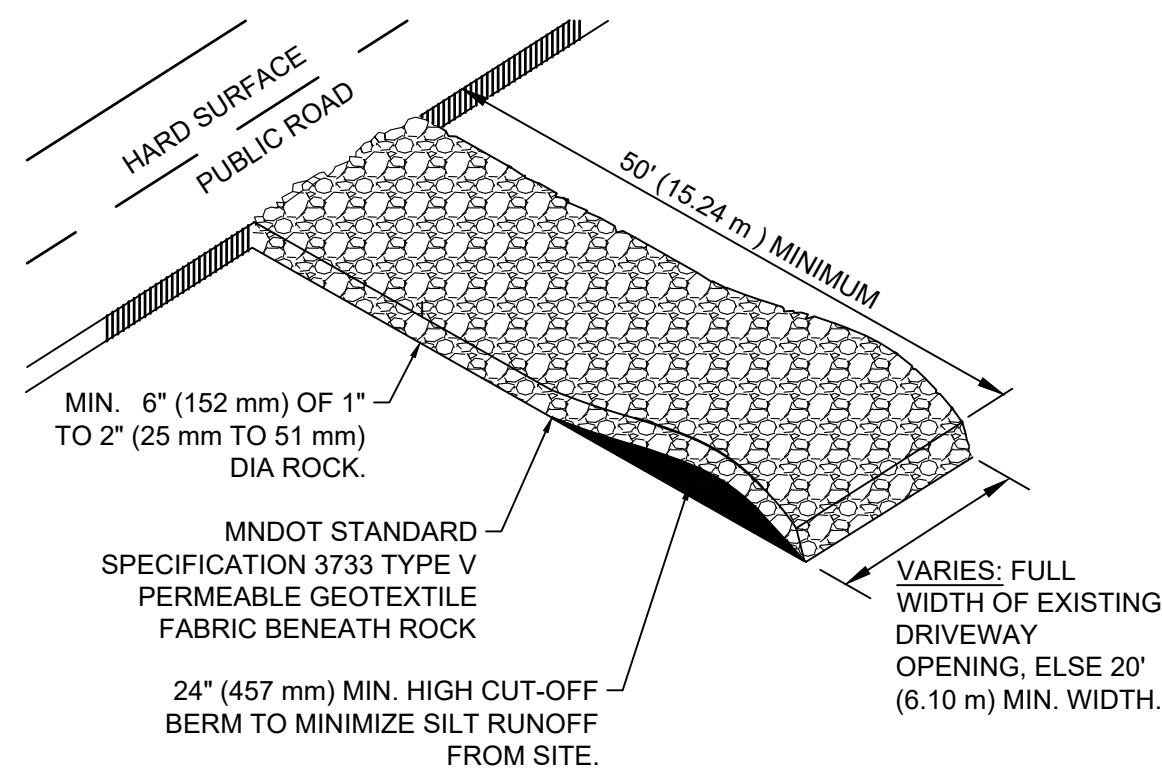


4 TYPICAL CROSS HATCHING MARKINGS NO SCALE

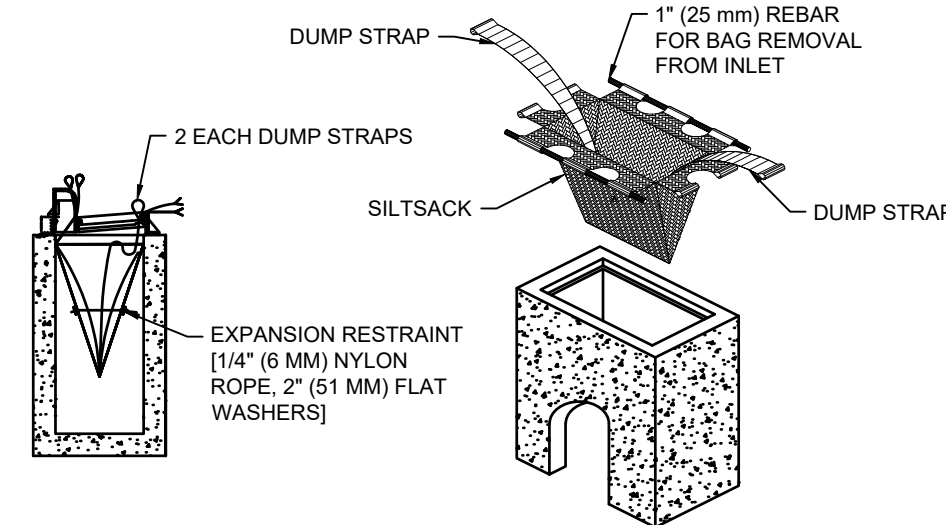


NOTES:
1. REFER TO GEOTECHNICAL ENGINEERING REPORT FOR SOIL SUBGRADE PREPARATION & COMPACTION RECOMMENDATIONS

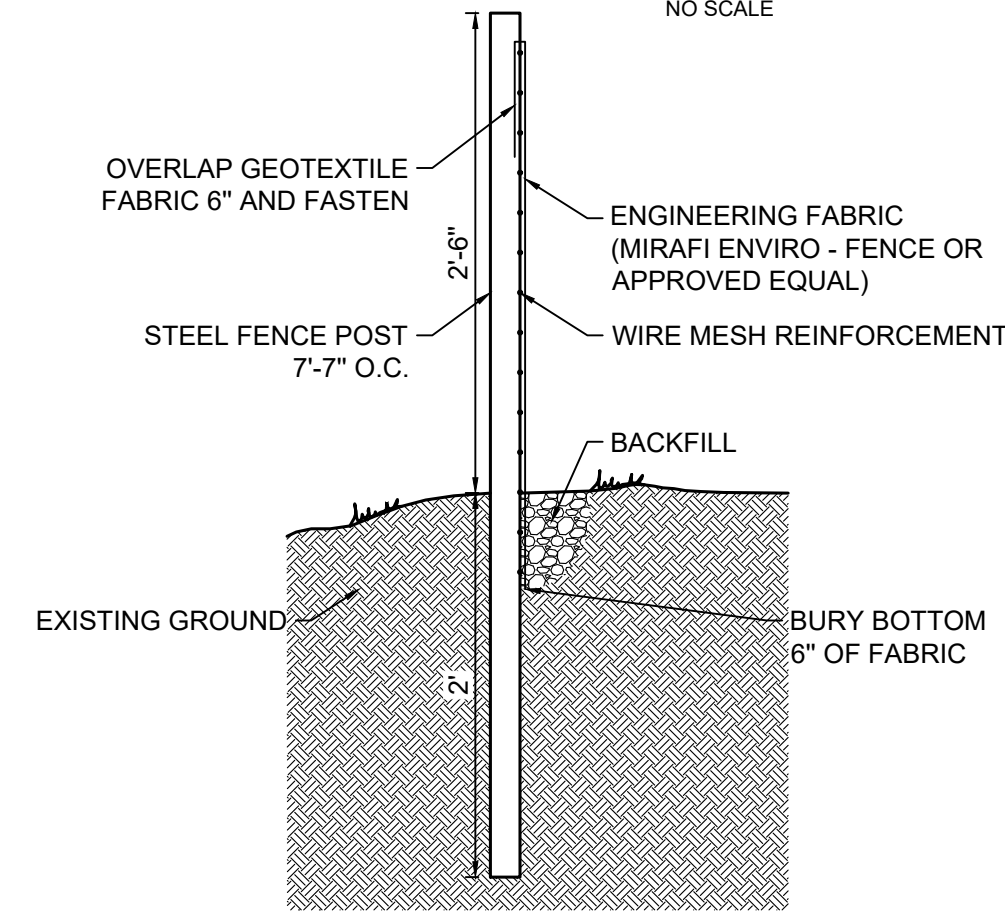
5 CONCRETE PAVEMENT NO SCALE



6 ROCK CONSTRUCTION ENTRANCE NO SCALE

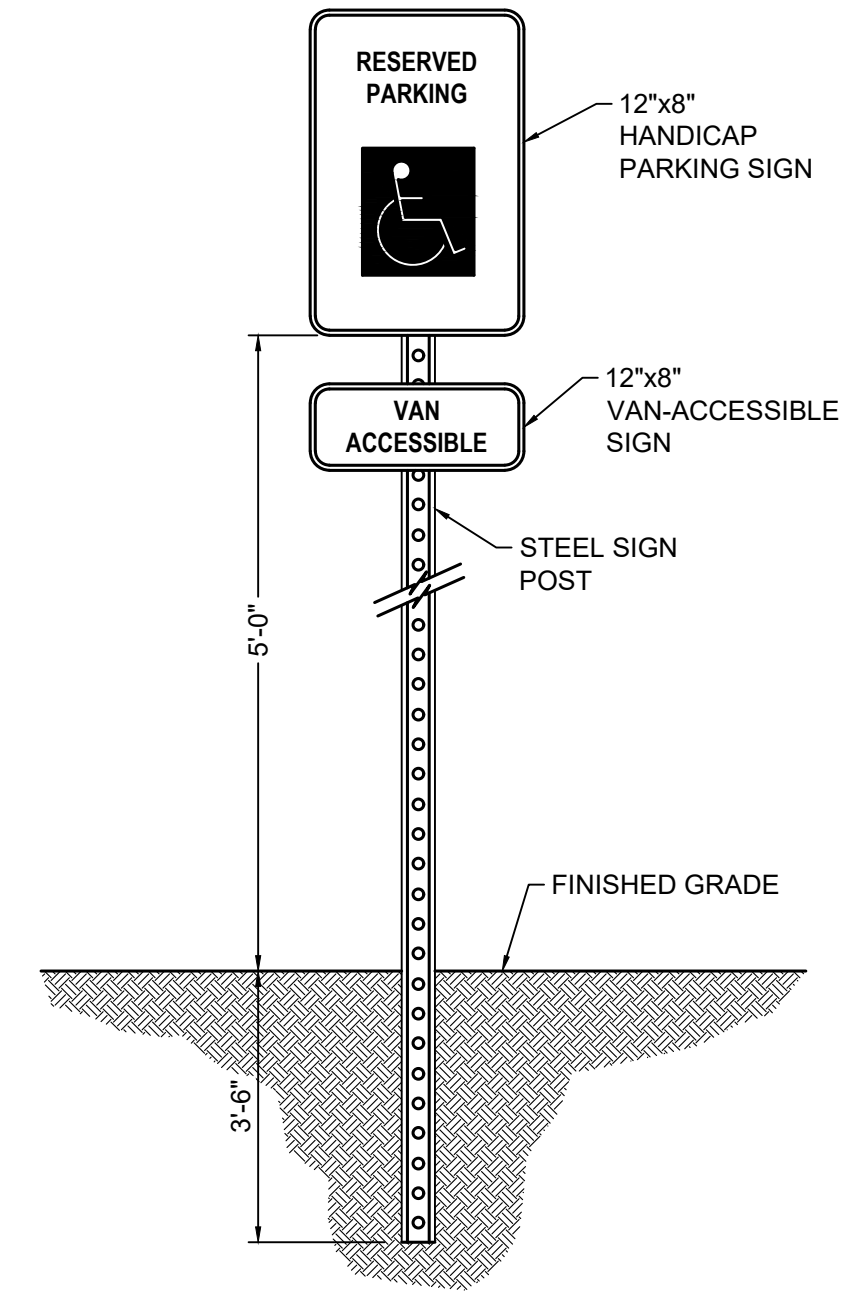


7 INLET PROTECTION -SEDIMENT FILTER SACK NO SCALE



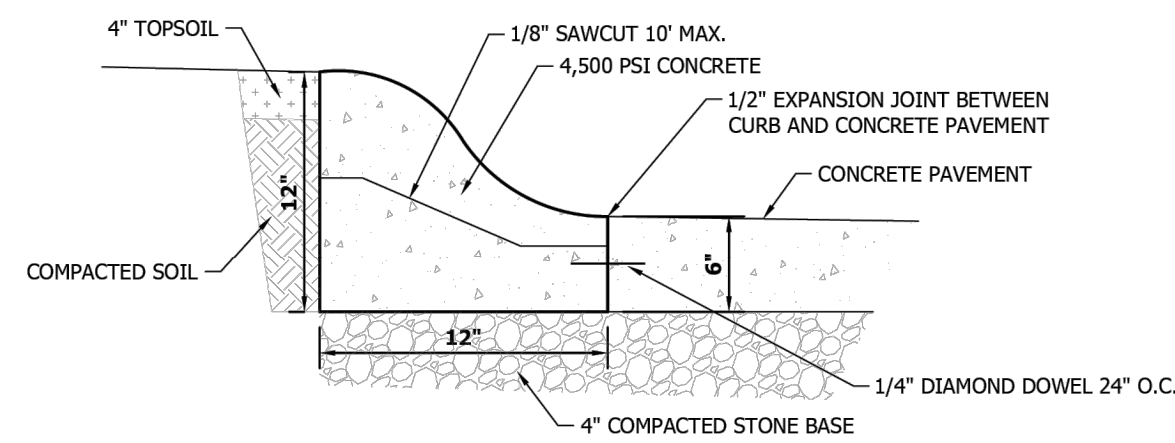
NOTES:
1. PAID FOR AS SILT FENCE - HEAVY DUTY
2. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL EROSION CONTROL MATERIALS FOLLOWING TURF ESTABLISHMENT

8 HEAVY-DUTY EROSION CONTROL FENCE NO SCALE

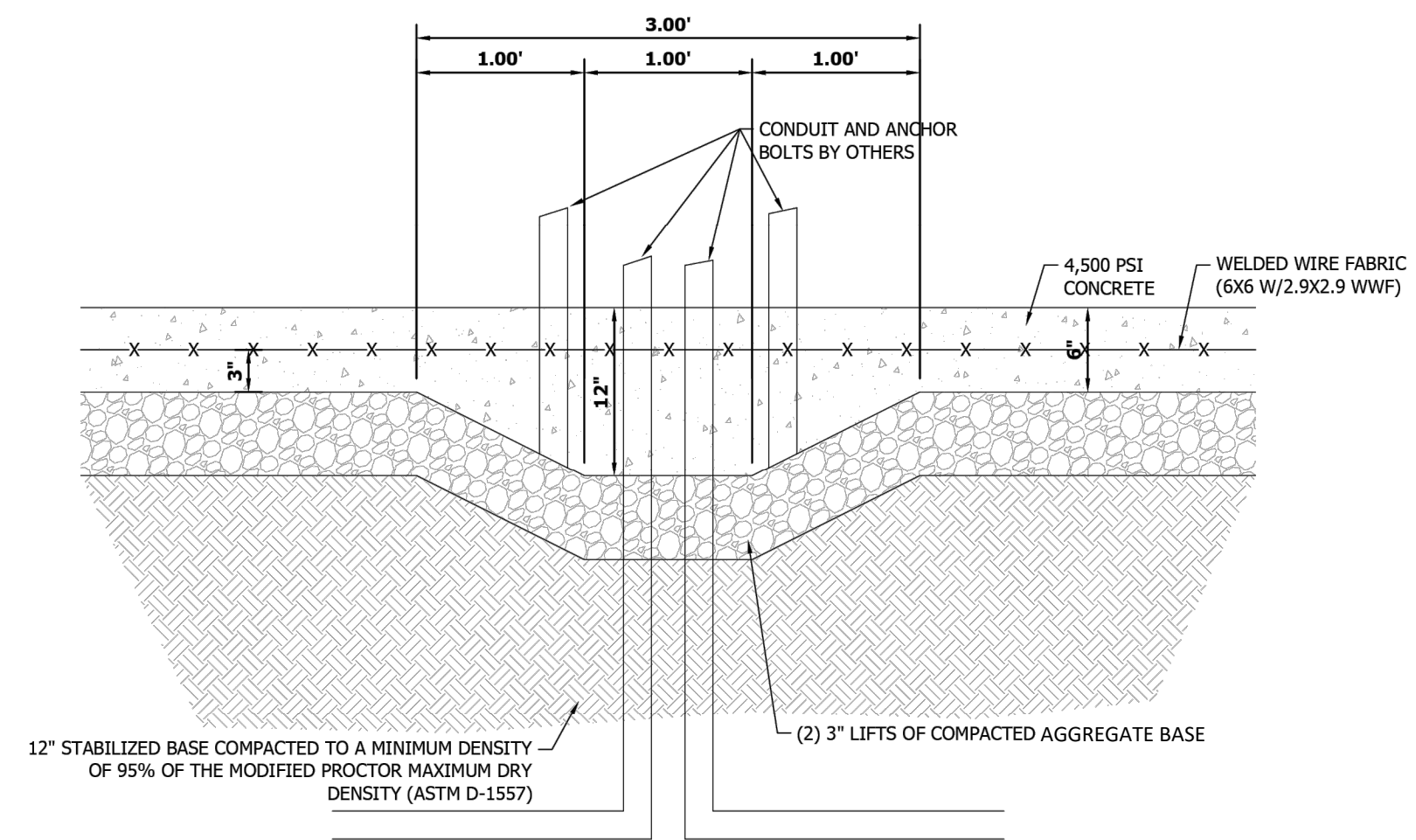


NOTES:
1. SIGNS SHALL BE 18 GAUGE STEEL WITH BAKED ENAMEL WHITE LETTERS AND BORDER ON BLUE BACKGROUND, WHERE APPLICABLE.
2. POST SHALL BE GALVANIZED STEEL U-CHANNEL, PERFORATED WITH 3/8" HOLES AT 1" CENTERS
3. SIGNS SHALL COMPLY WITH LOCAL MUTCD REQUIREMENTS

9 ACCESSIBLE PARKING SIGN NO SCALE



10 ROLL CURB NO SCALE

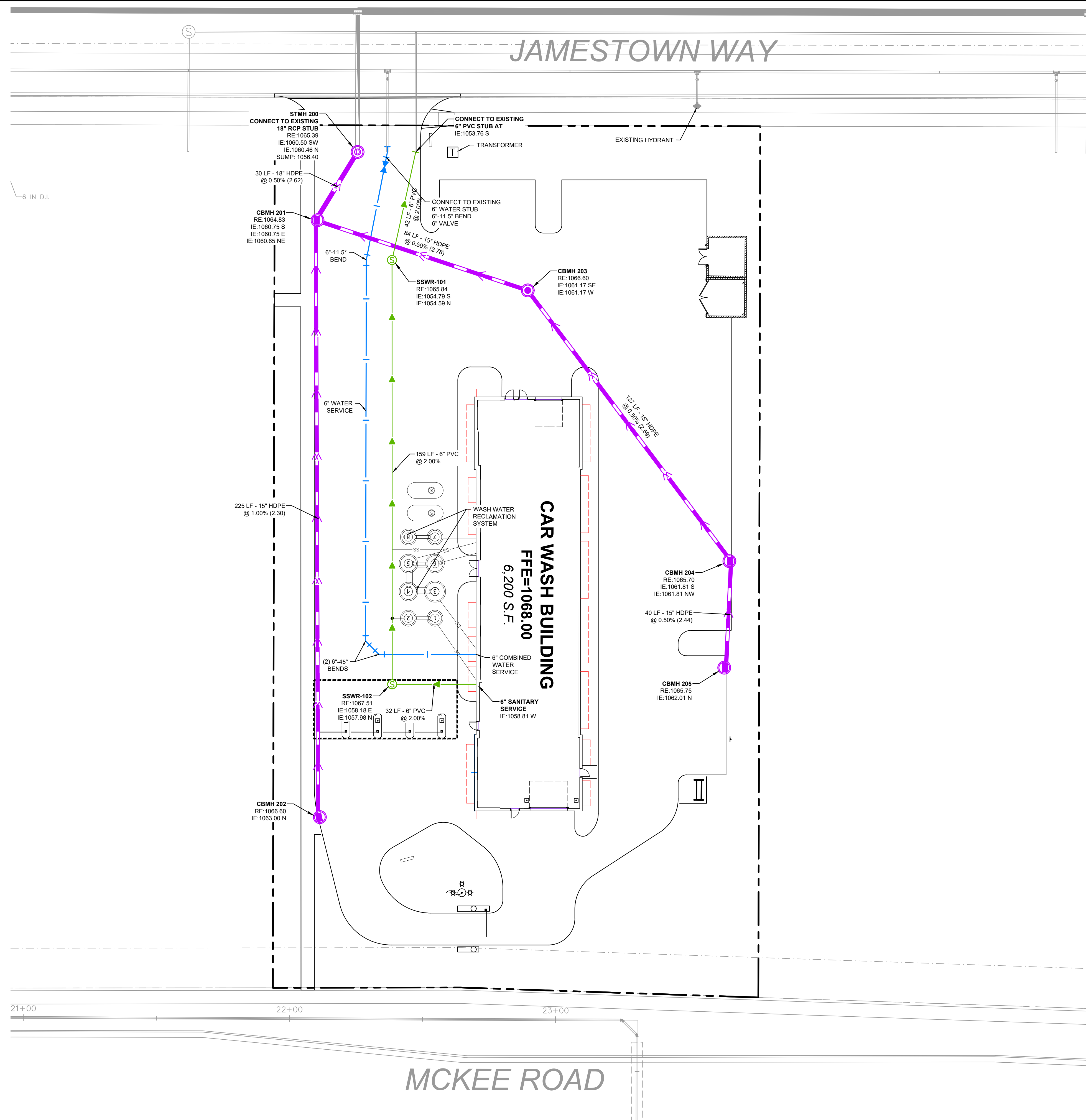


NOTES:
1. CONCRETE TO BE CLASS "A"
2. REFER TO APPLICABLE DETAIL FOR CONCRETE JOINT DETAILS
3. SEE NOTES THIS SHEET

11 THICKENED CONCRETE SLAB FOR VACUUMS NO SCALE

KHA PROJECT	161033019
DATE	01/20/2025
SCALE	AS NOTED
DESIGNED BY	JF-J
DRAWN BY	JF-J
CHECKED BY	DLE

No.	REVISIONS	DATE	BY

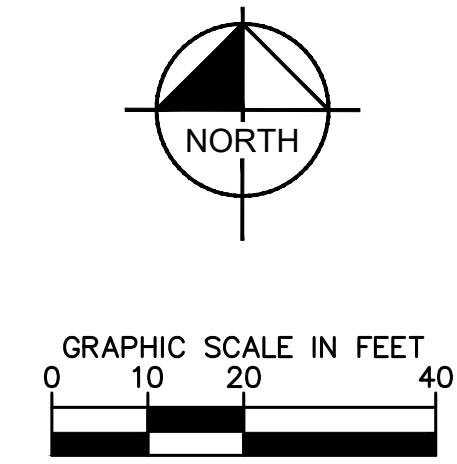


LEGEND

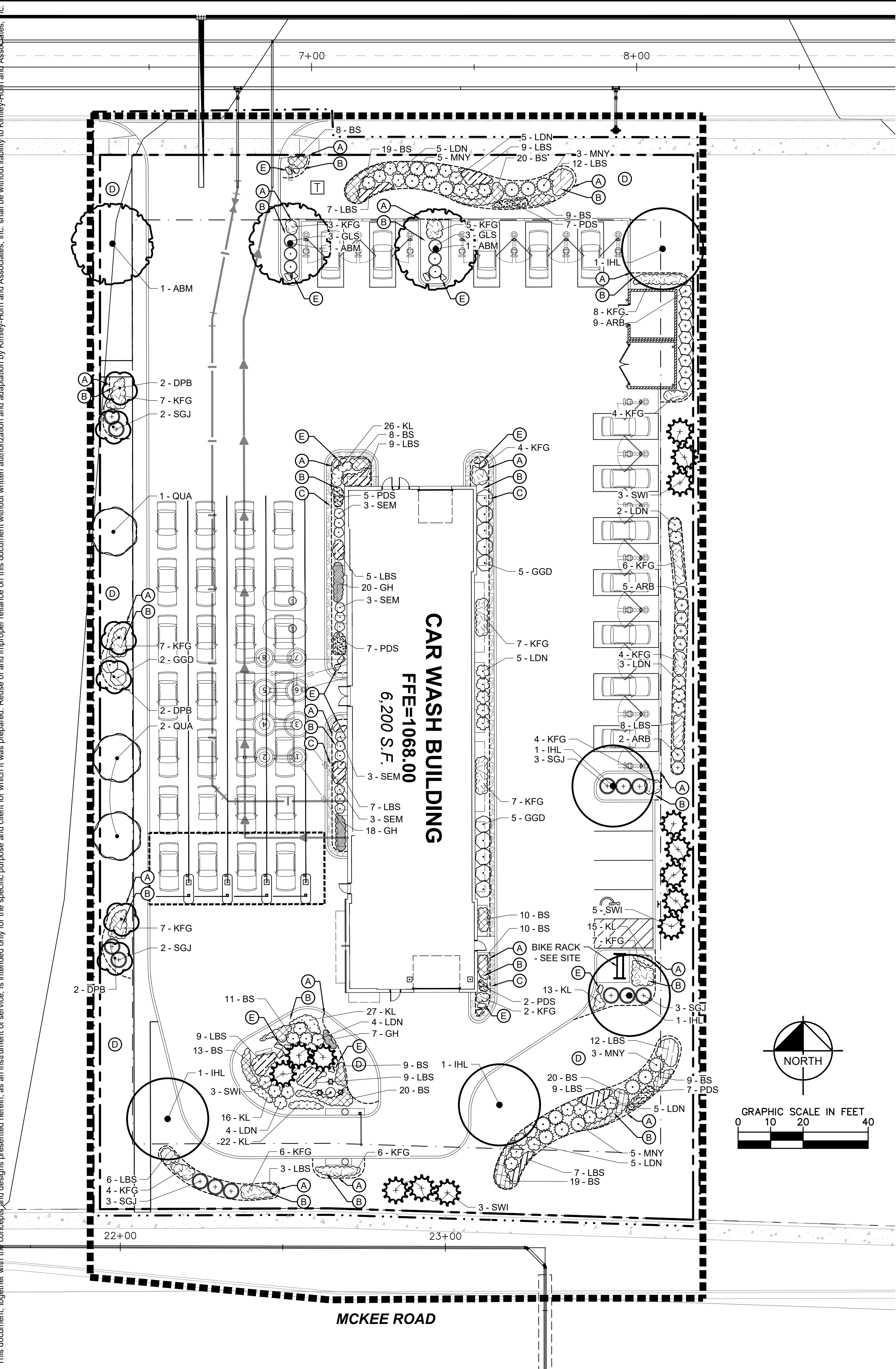
EXISTING	PROPOSED	
		GATE VALVE
		HYDRANT
		REDUCER
		TEE
		SANITARY SEWER MANHOLE
		SANITARY CLEANOUT
		WATERMAIN
		SANITARY SEWER
		STORM SEWER
		UNDERGROUND ELECTRIC
		TELEPHONE
		GAS MAIN

UTILITY PLAN NOTES

- INSTALL UTILITIES IN ACCORDANCE WITH APPLICABLE CITY SPECIFICATIONS, STATE PLUMBING CODE, AND BUILDING PERMIT REQUIREMENTS.
- CONTACT STATE 811 CALL-BEFORE-YOU-DIG LOCATING SERVICE AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATION FOR UNDERGROUND UTILITY LOCATIONS.
- CONTRACTOR IS RESPONSIBLE FOR ALL HORIZONTAL AND VERTICAL CONTROL.
- SANITARY SEWER PIPE SHALL BE:
PVC: ASTM D-2729, D-3034
PVC SCH 40: ASTM D-1785, F-714, F-894
SANITARY SEWER FITTINGS SHALL BE:
PVC: ASTM D-2729, D-3034
PVC SCH40: ASTM D-2665, F-2794, F-1866
- WATER MAIN PIPE SHALL BE:
PVC: ASTM D-1785, D-2241, AWWA C-900
DUCTILE IRON: AWWA C-150
WATER MAIN FITTINGS SHALL BE:
PVC: ASTM D-2464, D-2466, D-2467, F-1970, AWWA C-907
DUCTILE IRON: AWWA C-153, C-110, ASME 316.4
- STORM SEWER PIPE SHALL BE:
RCP: ASTM C-76
HDPE: ASTM F-714, F-894
PVC: ASTM D-2729
PVC SCH40: ASTM D-1785, D-2665, F-794
DRAIN TILE SHALL BE:
PE: ASTM F-6667
PVC: ASTM D-2729
STORM SEWER FITTINGS SHALL BE:
RCP: ASTM C-76, JOINTS PER ASTM C-361, C-990, AND C-443
HDPE: ASTM D-3212
PVC: ASTM D-2729, JOINTS PER ASTM D-3212
PVC SCH40: ASTM D-2665, F-794, F-1866
- WHEN CONNECTING TO AN EXISTING UTILITY LINE, FIELD VERIFY THE LOCATION, DEPTH, AND SIZE OF THE EXISTING PIPE(S) PRIOR TO INSTALLATION OF THE NEW LINES. NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCIES OR VARIATIONS IMPACTING THE PROPOSED DESIGN OF THE PROJECT.
- PLACE AND COMPACT ALL FILL MATERIAL PRIOR TO INSTALLATION OF PROPOSED UNDERGROUND UTILITIES. MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
- MAINTAIN A MINIMUM OF 7'-6" COVER ON ALL WATER LINES.
- FOR WATER LINES AND STUB-OUTS UTILIZE MECHANICAL JOINTS WITH RESTRAINTS SUCH AS THRUST BLOCKING, WITH STAINLESS STEEL OR COBALT BLUE BOLTS, OR AS INDICATED IN THE CITY SPECIFICATIONS AND PROJECT DOCUMENTS.
- MAINTAIN 18-INCH MINIMUM VERTICAL SEPARATION WHERE SEWER PIPE CROSSES WATER LINES (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE OR STRUCTURE). PROVIDE 10-FOOT HORIZONTAL SEPARATION BETWEEN SEWER PIPE AND WATER LINES.
- IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATER LINES, SANITARY LINES, STORM LINES AND GAS LINES (OR ANY OBSTRUCTION EXISTING AND PROPOSED), THE SANITARY PIPE MATERIAL SHALL BE PVC SCHEDULE 40 OR PVC C900 AND HAVE MECHANICAL JOINTS AT LEAST 10 FEET ON EITHER SIDE OF THE CENTER LINE OF THE CROSSING. THE WATER LINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE FASTENERS AS REQUIRED TO PROVIDE A MINIMUM OF 18-INCH VERTICAL SEPARATION MEETING REQUIREMENTS OF ANSI A21.10 OR ANSI 21.11 (AWWA C-151) (CLASS 50).
- ALL PVC & HDPE SEWER AND WATER PIPE SHALL HAVE A TRACER WIRE INSTALLED IN THE TRENCH AND TERMINATED PER THE DETAILS.
- UNDERGROUND UTILITY LINES SHALL BE INSTALLED, INSPECTED AND APPROVED PRIOR TO PLACING BACKFILL.
- IN PAVEMENT AREAS, RAISE MANHOLE CASTINGS TO BE FLUSH WITH PROPOSED FINISHED SURFACE GRADE. IN GREEN AREAS, RAISE MANHOLE CASTINGS TO BE ONE FOOT ABOVE FINISHED GROUND ELEVATION & INSTALL A WATERTIGHT LID.
- REFER TO PLUMBING PLANS FOR LOCATION, SIZE AND ELEVATION OF UTILITY SERVICE CONNECTIONS AND ROOF DRAINS TO THE INTERIOR BUILDING SYSTEMS. BACKFLOW DEVICES (DDCV AND PRZ ASSEMBLIES) & METERS ARE LOCATED INSIDE THE BUILDING.
- CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES. COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
- REFER TO THE SITE ELECTRICAL PLANS FOR SPECIFICATIONS OF THE PROPOSED SITE LIGHTING AND ELECTRICAL EQUIPMENT.
- EXCAVATE DRAINAGE TRENCHES TO FOLLOW PROPOSED STORM SEWER ALIGNMENTS. REFER TO THE UTILITY PLANS FOR LAYOUT AND ELEVATIONS FOR PROPOSED SANITARY SEWER, WATER MAIN, AND OTHER BUILDING UTILITY SERVICE CONNECTIONS. REFER TO THE GRADING PLAN FOR DETAILED SURFACE ELEVATIONS.
- EXCESS MATERIAL, ABANDONED UTILITY ITEMS, AND OTHER UNUSABLE MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF THE CONSTRUCTION SITE.
- COORDINATE WITH THE PLUMBING PLANS FOR THE LOCATION, SIZE AND ELEVATION OF THE PROPOSED UNDERGROUND ROOF DRAIN CONNECTIONS.
- WHERE STORM SEWER ROOF DRAINS HAVE LESS THAN 4-FEET OF COVER IN PAVED AREAS OR 5-FEET OF COVER IN LANDSCAPE AREAS, PROVIDE 3-INCH THICK INSULATION A MINIMUM OF 5-FEET IN WIDTH, CENTERED ON THE PIPE.
- ALL STORM SEWER PIPE JOINTS SHALL BE WATER-TIGHT CONNECTIONS.
- ALL STORM SEWER PIPE CONNECTIONS TO MANHOLES SHALL BE GASKETED AND WATER TIGHT. BOOTED COUPLERS AT THE STRUCTURE OR A WATER STOP WITH NON-SHRINK GROUT MAY BE USED IN ACCORDANCE WITH LOCAL CODES.
- CONTRACTOR SHALL AIR TEST ALL STORM SEWER PIPE IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.



<p>Kimley»Horn</p> <p>2024 KIMLEY-HORN AND ASSOCIATES, INC. 767 EUSTIS STREET, SUITE 100, ST. PAUL, MN 55114 PHONE: 651-454-4197 WWW.KIMLEY-HORN.COM</p>	<p>UTILITY PLAN</p>						
<p>CREW CARWASH FITCHBURG</p> <p>PREPARED FOR CREW CARWASH FITCHBURG</p>	<p>WI</p>						
<p>SHEET NUMBER C600</p>	<p>REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	No.	DATE	BY			
No.	DATE	BY					



LANDSCAPE SUMMARY

REQUIRED STREET TREES- NORTH:	3 TREES= 182 L.F. / 80
PROVIDED STREET TREES- NORTH:	3 TREES
REQUIRED STREET TREES- SOUTH:	3 TREES= 182 L.F. / 80
PROVIDED STREET TREES- SOUTH:	3 TREES

LANDSCAPE LEGEND

	EDGER (TYP.)
	APPROXIMATE LIMITS OF SEEDING/ SEEDING ALL DISTURBED AREAS (TYP.)
	ROCK MULCH (TYP.)
	2-3' LIMESTONE BOULDERS, REFER TO DETAIL ON L101

LANDSCAPE KEYNOTES

(A)	EDGER (TYP.)
(B)	DOUBLE SHREDDED HARDWOOD MULCH (TYP.)
(C)	ROCK MULCH (TYP.)
(D)	SOD (TYP.)
(E)	2-3' LIMESTONE BOULDER (TYP.)

PLANT SCHEDULE

SYMBOL	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONTAINER	CAL.
ORNAMENTAL TREES						
	DPB	6	DAKOTA PINNACLE® BIRCH	BETULA PLATYPHYLLA 'FARGO'	B & B	1.5" CAL.
	QUA	3	QUAKING ASPEN	POPULUS TREMULOIDES	B & B	1.5" CAL.
CONIFEROUS TREE						
	SWI	14	CHALET SWISS STONE PINE	PINUS CEMBRA 'CHALET'	#15 CONT.	6' HT.
OVERSTORY TREE						
	ABM	3	AUTUMN BLAZE MAPLE	ACER X FREEMANII 'AUTUMN BLAZE'	B & B	2" CAL.
	IHL	5	IMPERIAL HONEYLOCUST	GLEDITSIA TRIACANTHOS VAR. INERMIS 'IMPERIAL'	B & B	2" CAL.
DECIDUOUS SHRUBS						
	GGD	12	GARDEN GLOW DOGWOOD	CORNUS HESSEI 'GARDEN GLOW'	#5 CONT.	5' O.C.
	GLS	6	GRO-LOW FRAGRANT SUMAC	RHUS AROMATICA 'GRO-LOW'	#5 CONT.	4' O.C.
	LDN	38	LITTLE DEVIL NINEBARK	PHYSOCARPUS OPULIFOLIUS 'DONNA MAY'™	#5 CONT.	4' O.C.
	SEM	12	SEM FALSESPIREA	SORBARIA SORBIFOLIA 'SEM'	#5 CONT.	3' O.C.
EVERGREEN SHRUBS						
	ARB	16	TECHNITO® ARBORVITAE	THUJA OCCIDENTALIS 'BAILJOHN'	#5 CONT.	4' O.C.
	MNY	16	MANEY JUNIPER	JUNIPERUS CHINENSIS 'MANEY'	#5 CONT.	5' O.C.
	SGJ	13	SEA GREEN JUNIPER	JUNIPERUS CHINENSIS 'SEA GREEN'	#5 CONT.	5' O.C.
ORNAMENTAL GRASS						
	KFG	98	KARL FOERSTER FEATHER REED GRASS	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	#1 CONT.	30" O.C.
	LBS	112	BLUE HEAVEN LITTLE BLUESTEM	SCHIZACHYRIUM SCOPARIUM 'BLUE HEAVEN'	#1 CONT.	24" O.C.
	PDS	28	PRAIRIE DROPSEED	SPOROBOLUS HETEROLEPIS	#1 CONT.	24" O.C.
PERENNIALS						
	BS	185	BLACK-EYED SUSAN	RUDBECKIA FULGIDA 'GOLDSTURM'	#1 CONT.	18" O.C.
	GH	45	GOLDEN VARIEGATED HAKONECHLOA	HAKONECHLOA MACRA 'AUREOLA'	#1 CONT.	16" O.C.
	KL	119	KOBOLD LIATRIS	LIATRIS SPICATA 'KOBOLD'	#1 CONT.	12" O.C.

NOTE:
QUANTITIES ON PLAN SUPERSEDE LIST QUANTITIES IN THE EVENT OF A DISCREPANCY.

ABBREVIATIONS:
B&B = BALLED AND BURLAPPED CAL. = CALIPER HT. = HEIGHT MIN. = MINIMUM O.C. = ON CENTER SP. = SPECIES
QTY. = QUANTITY



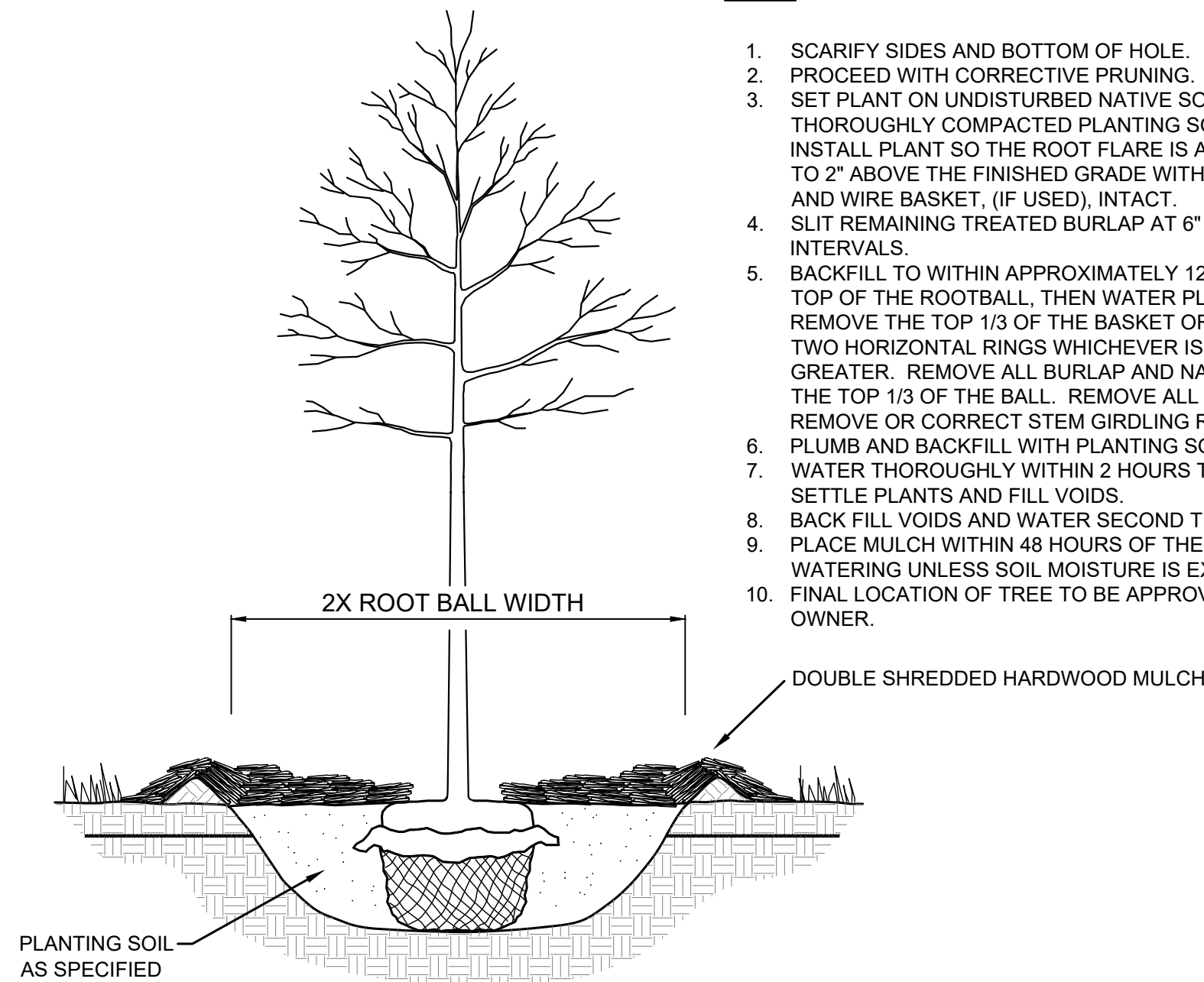
Know what's below.
Call before you dig.

 2024 KIMLEY-HORN AND ASSOCIATES, INC. 767 EUSTIS STREET, SUITE 100, ST. PAUL, MN 55114 PHONE: 651-445-4187 WWW.KIMLEY-HORN.COM	KHA PROJECT 161033019	DATE 01/20/2025	SCALE AS SHOWN	DESIGNED BY RAH	DRAWN BY ATK	CHECKED BY RAH	
	LANDSCAPE PLAN						
CREW CARWASH FITCHBURG PREPARED FOR CREW CARWASH FITCHBURG	SHEET NUMBER L100					REVISIONS	DATE

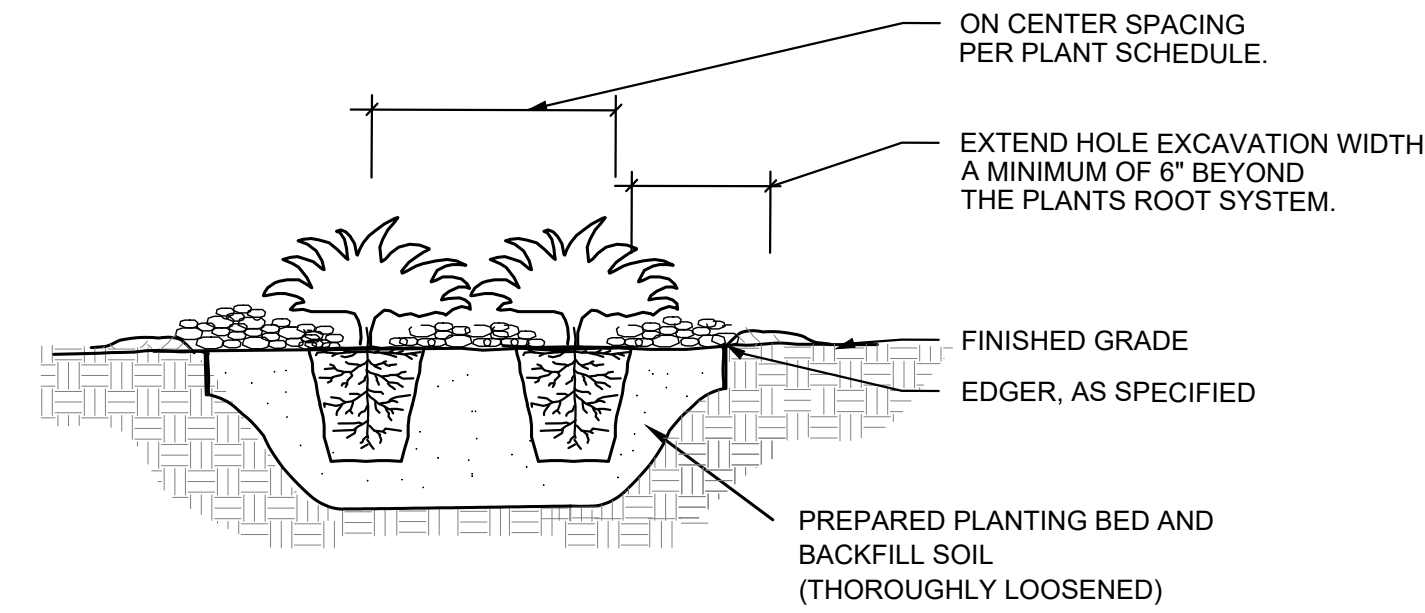
K:\TWC_LDEV\Crew Carwash\Fitchburg\3 Design\CAD\PlanSheets\L1-LANDSCAPE DETAILS.DWG January 20, 2025 - 5:35pm
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NOTES:

1. SCARIFY SIDES AND BOTTOM OF HOLE.
2. PROCEED WITH CORRECTIVE PRUNING.
3. SET PLANT ON UNDISTURBED NATIVE SOIL OR THOROUGHLY COMPACTED PLANTING SOIL. INSTALL PLANT SO THE ROOT FLARE IS AT OR UP TO 2" ABOVE THE FINISHED GRADE WITH BURLAP AND WIRE BASKET, (IF USED), INTACT.
4. SLIT REMAINING TREATED BURLAP AT 6" INTERVALS.
5. BACKFILL TO WITHIN APPROXIMATELY 12" OF THE TOP OF THE ROOTBALL, THEN WATER PLANT. REMOVE THE TOP 1/3 OF THE BASKET OR THE TOP TWO HORIZONTAL RINGS WHICHEVER IS GREATER. REMOVE ALL BURLAP AND NAILS FROM THE TOP 1/3 OF THE BALL. REMOVE ALL TWINE. REMOVE OR CORRECT STEM GIRDLING ROOTS.
6. PLUMB AND BACKFILL WITH PLANTING SOIL.
7. WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANTS AND FILL VOIDS.
8. BACK FILL VOIDS AND WATER SECOND TIME.
9. PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.
10. FINAL LOCATION OF TREE TO BE APPROVED BY OWNER.



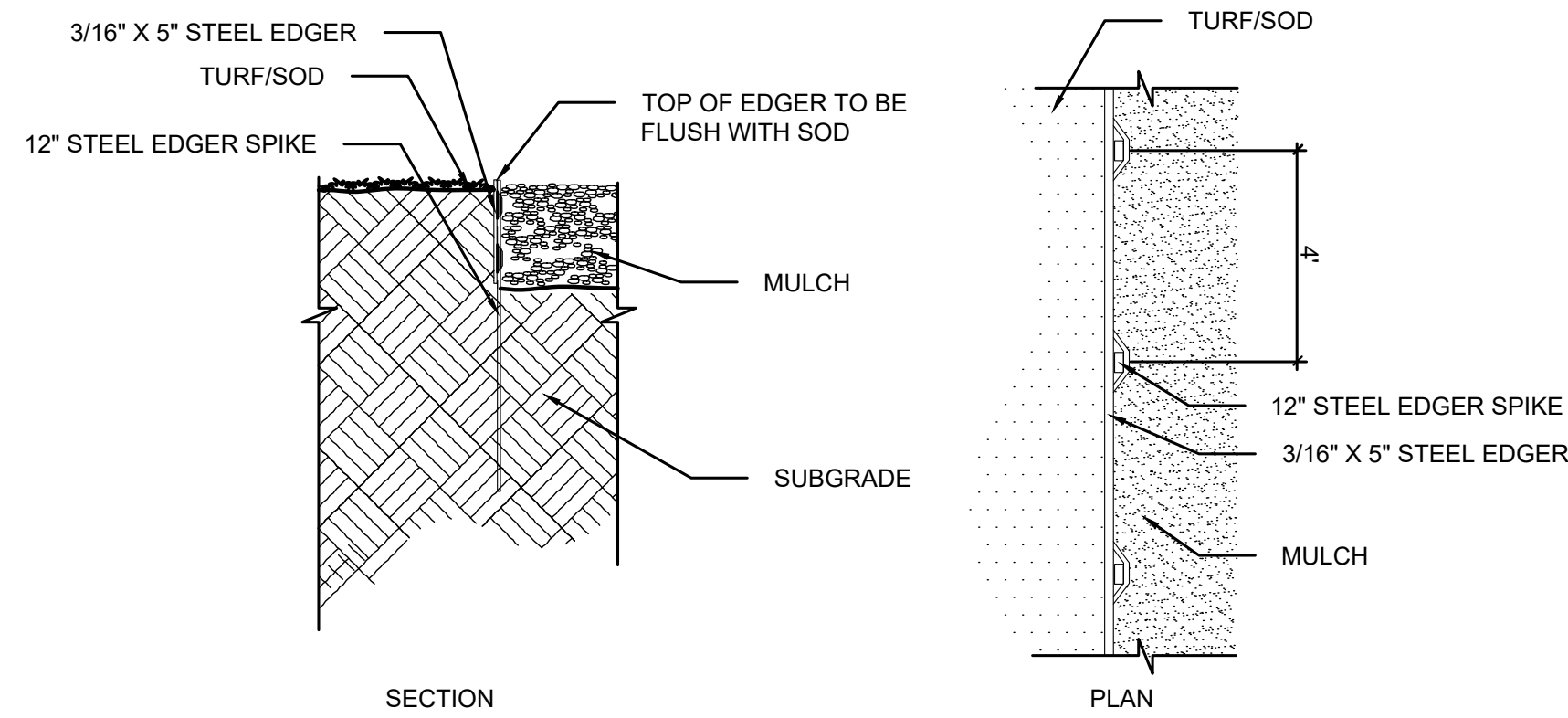
1 TREE PLANTING DETAIL
SCALE: N.T.S.



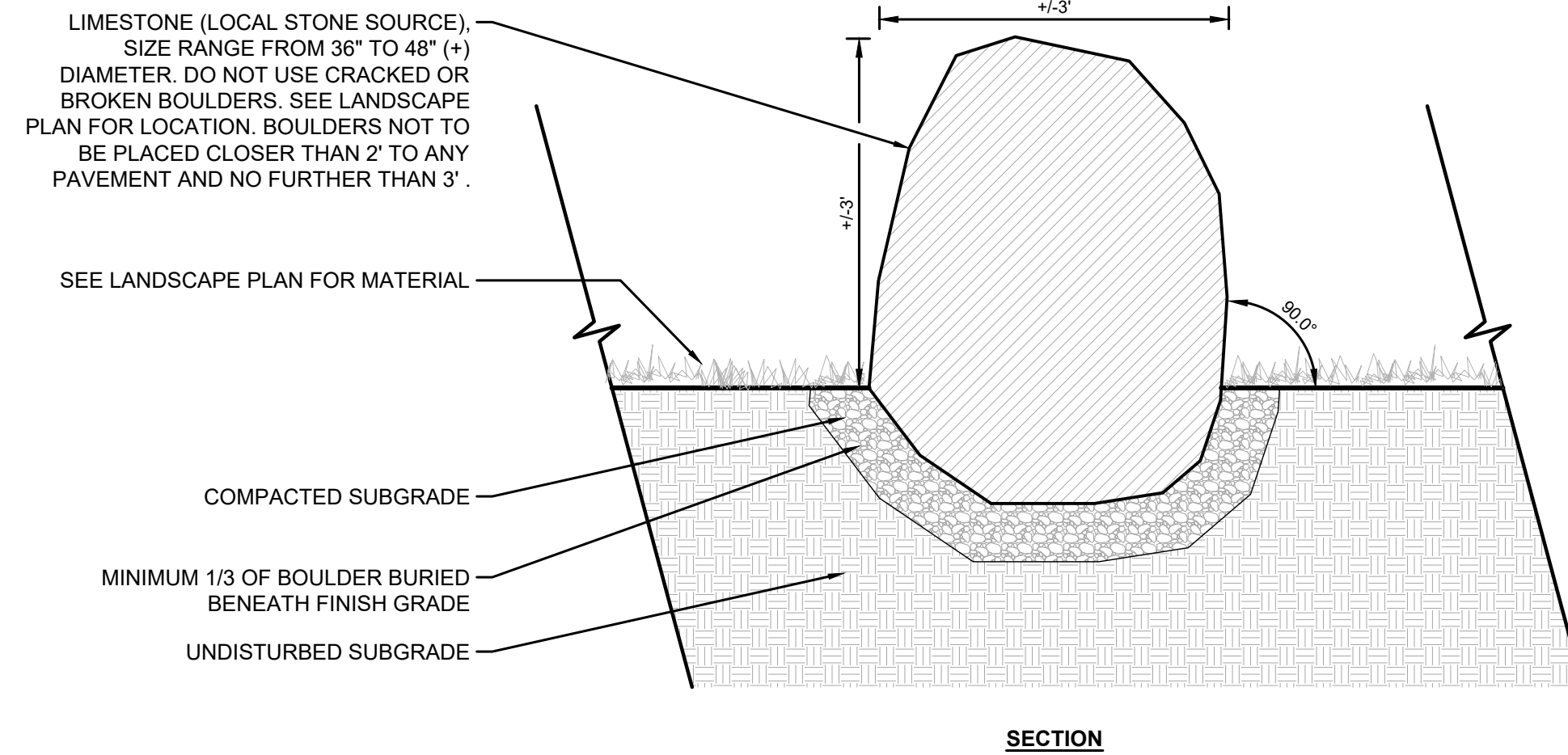
NOTES:

1. SCARIFY SIDES AND BOTTOM OF HOLE.
2. PROCEED WITH CORRECTIVE PRUNING OF TOP AND ROOT.
3. REMOVE CONTAINER AND SCORE OUTSIDE OF SOIL MASS TO REDIRECT AND PREVENT CIRCLING FIBROUS ROOTS. REMOVE OR CORRECT STEM GIRDLING ROOTS.
4. PLUMB AND BACKFILL WITH PLANTING SOIL.
5. WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANTS AND FILL VOIDS.
6. BACK FILL VOIDS AND WATER SECOND TIME.
7. PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.
8. MIX IN 3-4" OF ORGANIC COMPOST.

2 SHRUB / PERENNIAL PLANTING DETAIL
SCALE: N.T.S.



3 STEEL EDGER DETAIL
SCALE: N.T.S.



4 LIMESTONE BOULDER DETAIL
SCALE: 3/4"=1'

LANDSCAPE NOTES

PLANTING

1. CONTACT COMMON GROUND ALLIANCE AT 811 OR CALL811.COM TO VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ANY PLANTS OR LANDSCAPE MATERIAL.
2. ACTUAL LOCATION OF PLANT MATERIAL IS SUBJECT TO FIELD AND SITE CONDITIONS.
3. NO PLANTING WILL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
4. ALL SUBSTITUTIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO SUBMISSION OF ANY BID AND/OR QUOTE BY THE LANDSCAPE CONTRACTOR.
5. PROVIDE TWO YEAR GUARANTEE OF ALL PLANT MATERIALS. THE GUARANTEE BEGINS ON THE DATE OF THE LANDSCAPE ARCHITECT'S OR OWNER'S WRITTEN ACCEPTANCE OF THE INITIAL PLANTING. REPLACEMENT PLANT MATERIAL SHALL HAVE A ONE YEAR GUARANTEE COMMENCING UPON PLANTING.
6. ALL PLANTS TO BE SPECIMEN GRADE, WISCONSIN-GROWN AND/OR HARDY. SPECIMEN GRADE SHALL ADHERE TO, BUT IS NOT LIMITED BY, THE FOLLOWING STANDARDS:
ALL PLANTS SHALL BE FREE FROM DISEASE, PESTS, WOUNDS, SCARS, ETC.
ALL PLANTS SHALL BE FREE FROM NOTICEABLE GAPS, HOLES, OR DEFORMITIES.
ALL PLANTS SHALL BE FREE FROM BROKEN OR DEAD BRANCHES.
ALL PLANTS SHALL HAVE HEAVY, HEALTHY BRANCHING AND LEAFING.
CONIFEROUS TREES SHALL HAVE AN ESTABLISHED MAIN LEADER AND A HEIGHT TO WIDTH RATIO OF NO LESS THAN 5:3.
7. PLANTS TO MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2014 OR MOST CURRENT VERSION) REQUIREMENTS FOR SIZE AND TYPE SPECIFIED.
8. PLANTS TO BE INSTALLED AS PER ANSI STANDARD PLANTING PRACTICES.
9. INSTALL PLANTS BY PLANT INSTALLATION PERIOD INFORMATION IN THE LATEST STANDARD PLANTING DETAILS FROM WISDOT. PLANTINGS BEFORE OR AFTER THESE DATES ARE DONE AT RISK.
10. PLANTS SHALL BE IMMEDIATELY PLANTED UPON ARRIVAL AT SITE. PROPERLY HEEL-IN MATERIALS IF NECESSARY, TEMPORARY ONLY.
11. PRIOR TO PLANTING, FIELD VERIFY THAT THE ROOT COLLAR/ROOT FLARE IS LOCATED AT THE TOP OF THE BALLED & BURLAP TREE. IF THIS IS NOT THE CASE, SOIL SHALL BE REMOVED DOWN TO THE ROOT COLLAR/ROOT FLARE. WHEN THE BALLED & BURLAP TREE IS PLANTED, THE ROOT COLLAR/ROOT FLARE SHALL BE EVEN OR SLIGHTLY ABOVE FINISHED GRADE.
12. OPEN TOP OF BURLAP ON BB MATERIALS; REMOVE POT ON POTTED PLANTS; SPLIT AND BREAK APART PEAT POTS.
13. PRUNE PLANTS AS NECESSARY - PER STANDARD NURSERY PRACTICE AND TO CORRECT POOR BRANCHING OF EXISTING AND PROPOSED TREES.
14. WRAP ALL SMOOTH-BARKED TREES - FASTEN TOP AND BOTTOM. REMOVE BY APRIL 1ST.
15. STAKING OF TREES AS REQUIRED; REPOSITION, PLUMB AND STAKE IF NOT PLUMB AFTER ONE YEAR.

SOIL

16. THE NEED FOR SOIL AMENDMENTS SHALL BE DETERMINED UPON SITE SOIL CONDITIONS PRIOR TO PLANTING. LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT FOR THE NEED OF ANY SOIL AMENDMENTS.
17. BACKFILL SOIL AND TOPSOIL TO ADHERE TO WISDOT STANDARD SPECIFICATION 625 (TOPSOIL AND SALVAGED TOPSOIL) AND TO BE EXISTING TOP SOIL FROM SITE FREE OF ROOTS, ROCKS LARGER THAN ONE INCH, SUBSOIL DEBRIS, AND LARGE WEEDS UNLESS SPECIFIED OTHERWISE. MINIMUM 4" DEPTH TOPSOIL FOR ALL LAWN GRASS AREAS AND 12" DEPTH TOPSOIL FOR TREE, SHRUBS, AND PERENNIALS.

MULCH

18. MULCH TO BE AT ALL TREE, SHRUB, PERENNIAL, AND MAINTENANCE AREAS. TREE AND SHRUB PLANTING BEDS SHALL HAVE 4" DEPTH OF DOUBLE SHREDDED HARDWOOD MULCH. DOUBLE SHREDDED HARDWOOD MULCH TO BE USED AROUND ALL PLANTS WITHIN TURF AREAS. PERENNIAL AND ORNAMENTAL GRASS BEDS SHALL HAVE 2" DEPTH DOUBLE SHREDDED HARDWOOD MULCH. MULCH TO BE FREE OF DELETERIOUS MATERIAL AND NATURAL IN COLOR (DYE-FREE), OR APPROVED EQUAL. ROCK MULCH TO BE LIMESTONE ROCK, 1-1 1/2" DIAMETER, AT MINIMUM 3" DEPTH, OR APPROVED EQUAL. APPLY PRE-EMERGENT HERBICIDE PRIOR TO MULCH PLACEMENT PER MANUFACTURER RECOMMENDATIONS. USE PREEN OR PRE-APPROVED EQUAL. ROCK MULCH TO BE ON COMMERCIAL GRADE FILTER FABRIC, BY TYPAR, OR APPROVED EQUAL WITH NO EXPOSURE. MULCH AND FABRIC TO BE APPROVED BY OWNER PRIOR TO INSTALLATION. MULCH TO MATCH EXISTING CONDITIONS (WHERE APPLICABLE).

EDGER

19. EDGING TO BE COMMERCIAL GRADE COL-MET (OR EQUAL) STEEL EDGING; 3/16" THICK x 5" TALL, COLOR BLACK, OR SPADED EDGE, AS INDICATED. STEEL EDGING SHALL BE PLACED WITH SMOOTH CURVES AND STAKED WITH METAL SPIKES NO GREATER THAN 4 FOOT ON CENTER WITH TOP OF EDGER AT GRADE. FOR MOWERS TO CUT ABOVE WITHOUT DAMAGE. UTILIZE CURBS AND SIDEWALKS FOR EDGING WHERE POSSIBLE. WHERE EDGING TERMINATES AT A SIDEWALK, BEVEL OR RECESS ENDS TO PREVENT TRIP HAZARD. SPADED EDGE TO PROVIDE V-SHAPED DEPTH AND WIDTH TO CREATE SEPARATION BETWEEN MULCH AND GRASS. INDIVIDUAL TREE, SHRUB, OR RAIN-GARDEN BEDS TO BE SPADED EDGE, UNLESS NOTED OTHERWISE. EDGING TO MATCH EXISTING CONDITIONS (WHERE APPLICABLE).

SEED/SOD

20. ALL DISTURBED AREAS TO BE SODDED OR SEEDED, UNLESS OTHERWISE NOTED. SOD TO BE STANDARD WISCONSIN-GROWN AND HARDY BLUEGRASS MIX, FREE OF LAWN WEEDS. ALL TOPSOIL AREAS TO BE RAKED TO REMOVE DEBRIS AND ENSURE DRAINAGE. SLOPES OF 3:1 OR GREATER SHALL BE STAKED. SEED AS SPECIFIED, PER WISDOT SPECIFICATIONS AND SUPPLIER/MANUFACTURER RECOMMENDATIONS. IF NOT INDICATED ON LANDSCAPE PLAN, SEE EROSION CONTROL PLAN.

IRRIGATION

21. PROVIDE IRRIGATION TO ALL PLANTED AREAS ON SITE. IRRIGATION SYSTEM TO BE DESIGN/BUILD BY LANDSCAPE CONTRACTOR. LANDSCAPE CONTRACTOR TO PROVIDE SHOP DRAWINGS TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION OF IRRIGATION SYSTEM. CONTRACTOR TO PROVIDE OPERATION MANUALS, AS-BUILT PLANS, AND NORMAL PROGRAMMING. SYSTEM SHALL BE WINTERIZED AND HAVE SPRING STARTUP DURING FIRST YEAR OF OPERATION. SYSTEM SHALL HAVE ONE-YEAR WARRANTY ON ALL PARTS AND LABOR. ALL INFORMATION ABOUT INSTALLATION AND SCHEDULING CAN BE OBTAINED FROM THE GENERAL CONTRACTOR. SYSTEM SHALL INCLUDE A RAIN/ FREEZE SENSOR, FLOW SENSOR, MASTER VALVE, PRESSURE REGULATED HEADS AND APPROPRIATE TECHNOLOGY, INCLUDING A SMART CONTROLLER.

ESTABLISHMENT

22. PROVIDE NECESSARY WATERING OF PLANT MATERIALS UNTIL THE PLANT IS FULLY ESTABLISHED OR IRRIGATION SYSTEM IS OPERATIONAL. OWNER WILL NOT PROVIDE WATER FOR CONTRACTOR.
23. REPAIR, REPLACE, OR PROVIDE SOD/SEED AS REQUIRED FOR ANY ROADWAY BOULEVARD AREAS ADJACENT TO THE SITE DISTURBED DURING CONSTRUCTION.

WARRANTY

24. REPAIR ALL DAMAGE TO PROPERTY FROM PLANTING OPERATIONS AT NO COST TO OWNER.
25. MAINTAIN TREES, SHRUBS, SEED AND OTHER PLANTS UNTIL PROJECT COMPLETION, BUT IN NO CASE, LESS THAN FOLLOWING PERIOD; 1 YEAR AFTER PROJECT COMPLETION. MAINTAIN TREES, SHRUBS, SEED AND OTHER PLANTS BY PRUNING, CULTIVATING, AND WEEDING AS REQUIRED FOR HEALTHY GROWTH. RESTORE PLANTING SAUCERS. TIGHTEN AND REPAIR STAKE AND GUY SUPPORTS AND RESET TREES AND SHRUBS TO PROPER GRADES OR VERTICAL POSITION AS REQUIRED. RESTORE OR REPLACE DAMAGED WRAPPINGS. SPRAY AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE. REPLENISH MULCH TO THE REQUIRED DEPTH. MAINTAIN LAWNS FOR 60 DAYS AFTER INSTALLING SOD INCLUDING MOWING WHEN SOD RECIPIES 4" IN HEIGHT. WEED PLANTING BEDS AND MULCH SAUCERS AT MINIMUM ONCE A MONTH DURING THE GROWING SEASON. PROVIDE A MONTHLY REPORT TO THE OWNER ON WEEDING AND OTHER MAINTENANCE RESPONSIBILITIES.

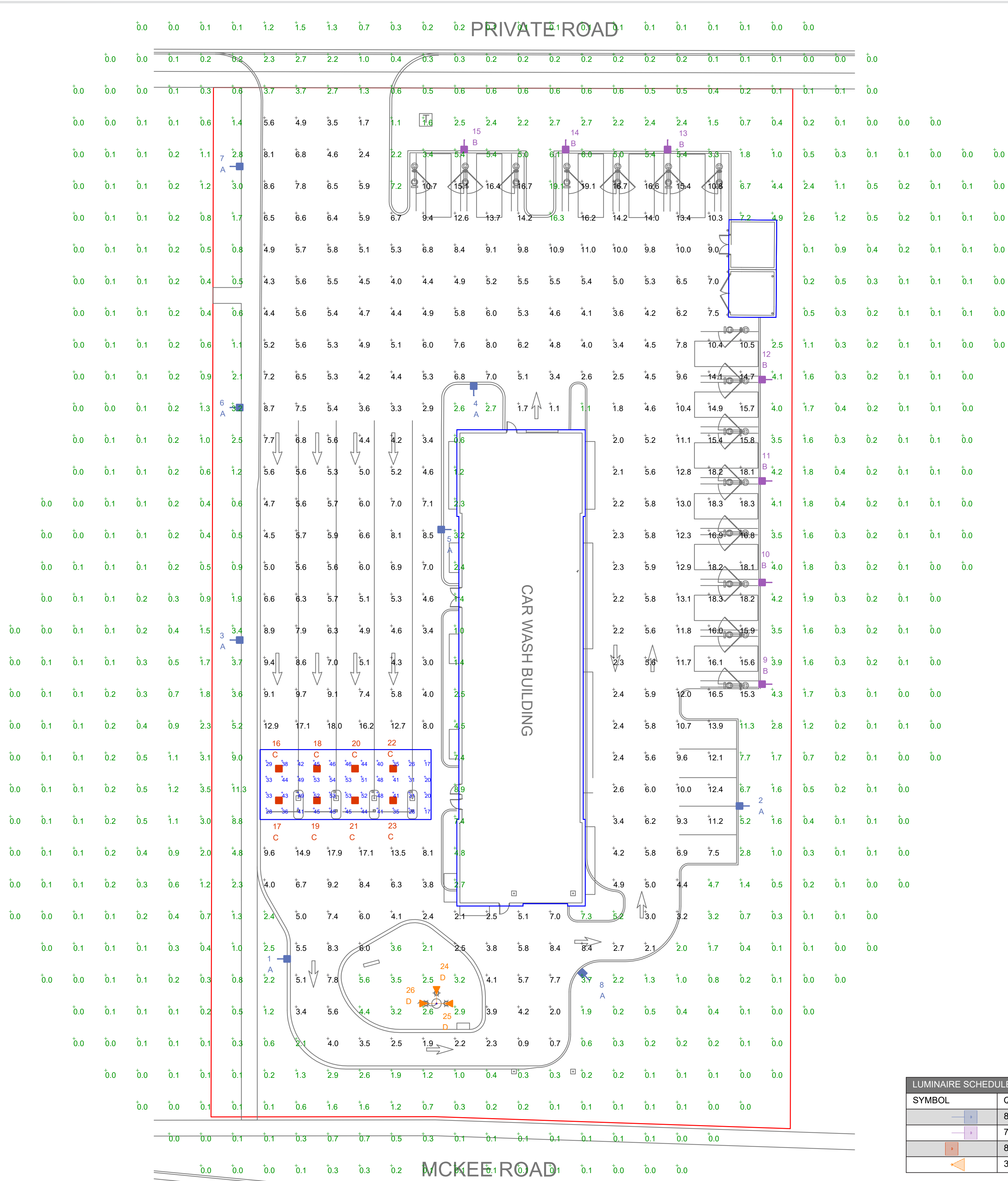
No.	REVISIONS	DATE	BY

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WWW.KIMLEY-HORN.COM

PROJECT	DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY
KHA PROJECT 161033019	01/20/2025	AS SHOWN	RAH	ATK	RAH

LANDSCAPE DETAILS

CREW CARWASH FITCHBURG
PREPARED FOR
CREW CARWASH FITCHBURG



NOTE:
AREA LIGHTS ON NEW 20 FT. POLES MOUNTED ON 2 FT. CONCRETE BASES

LUMINAIRE LOCATION SUMMARY		
LUM NO.	LABEL	MTG. HT.
1	A	22
2	A	22
3	A	22
4	A	22
5	A	22
6	A	22
7	A	22
8	A	22
9	B	22
10	B	22
11	B	22
12	B	22
13	B	22
14	B	22
15	B	22
16	C	15
17	C	15
18	C	15
19	C	15
20	C	15
21	C	15
22	C	15
23	C	15
24	D	1
25	D	1
26	D	1

FOOTCANDLE LEVELS CALCULATED AT GRADE USING INITIAL LUMEN VALUES					
LABEL	AVG	MAX	MIN	AVG/MIN	MAX/MIN
CANOPY	40.07	54	17	2.36	3.18
PAVED AREA	7.45	19.1	0.7	10.64	27.29
UNDEFINED	0.88	19.1	0.0	N.A.	N.A.

LUMINAIRE SCHEDULE											
SYMBOL	QTY	LABEL	ARRANGEMENT	LUMENS	LLF	DIMMING FACTOR	BUG RATING	WATTS/LUMINAIRE	TOTAL WATTS	MANUFACTURER	CATALOG LOGIC
	8	A	Single	20151	1.040	0.730	B2-U0-G3	164	1312	Lithonia Lighting	RSX2 LED P6 50K R4 MVOLT IS HS FAO DXXX (SW. POS. 5)
	7	B	Single	20151	1.040	1.000	B2-U0-G3	246.63	1726.41	Lithonia Lighting	RSX2 LED P6 50K R4 MVOLT IS HS FAO DXXX (SW. POS. 8)
	8	C	Single	10924	1.040	1.000	B3-U0-G1	78.6834	629.467	Lithonia Lighting	RCNY LED SYMC ALO2 Setting 4 80CRI 50K MVOLT
	3	D	Single	16094	1.040	1.000	B5-U0-G1	133.14	399.42	Lithonia Lighting	RSXF1 LED P4 50K SP MVOLT IS DXXXX

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SCALE:
1" = 20'
LAYOUT BY:
JAN
DATE:
12/11/24

PROJECT NAME:
CREW CAR WASH
FITCHBURG, WI
DRAWING NUMBER:
RL-10003-S1



QTY	LABEL	DESCRIPTION
8	A	RSX2 LED P6 50K R4 MVOLT IS HS FAO DXXX (SW. POS. 5)
7	B	RSX2 LED P6 50K R4 MVOLT IS HS FAO DXXX (SW. POS. 8)

ADDITIONAL FIXTURE INFO



RSX2 LED Area Luminaire

Specifications

EPA (ft²): 0.69 ft² (0.06 m²)

Length: 29.3" (74.4 cm)

Width: 13.4" (34.0 cm)

Height: 3.0" (7.6 cm) Main Body
7.2" (18.3 cm) Arm

Weight: 30.0 lbs (13.6 kg)

Introduction

The new RSX2 LED Area family delivers maximum value by providing significant energy savings, long life and outstanding photometric performance at an affordable price. The RSX2 delivers 11,000 to 31,000 lumens allowing it to replace 250W to 1000W HID luminaires.

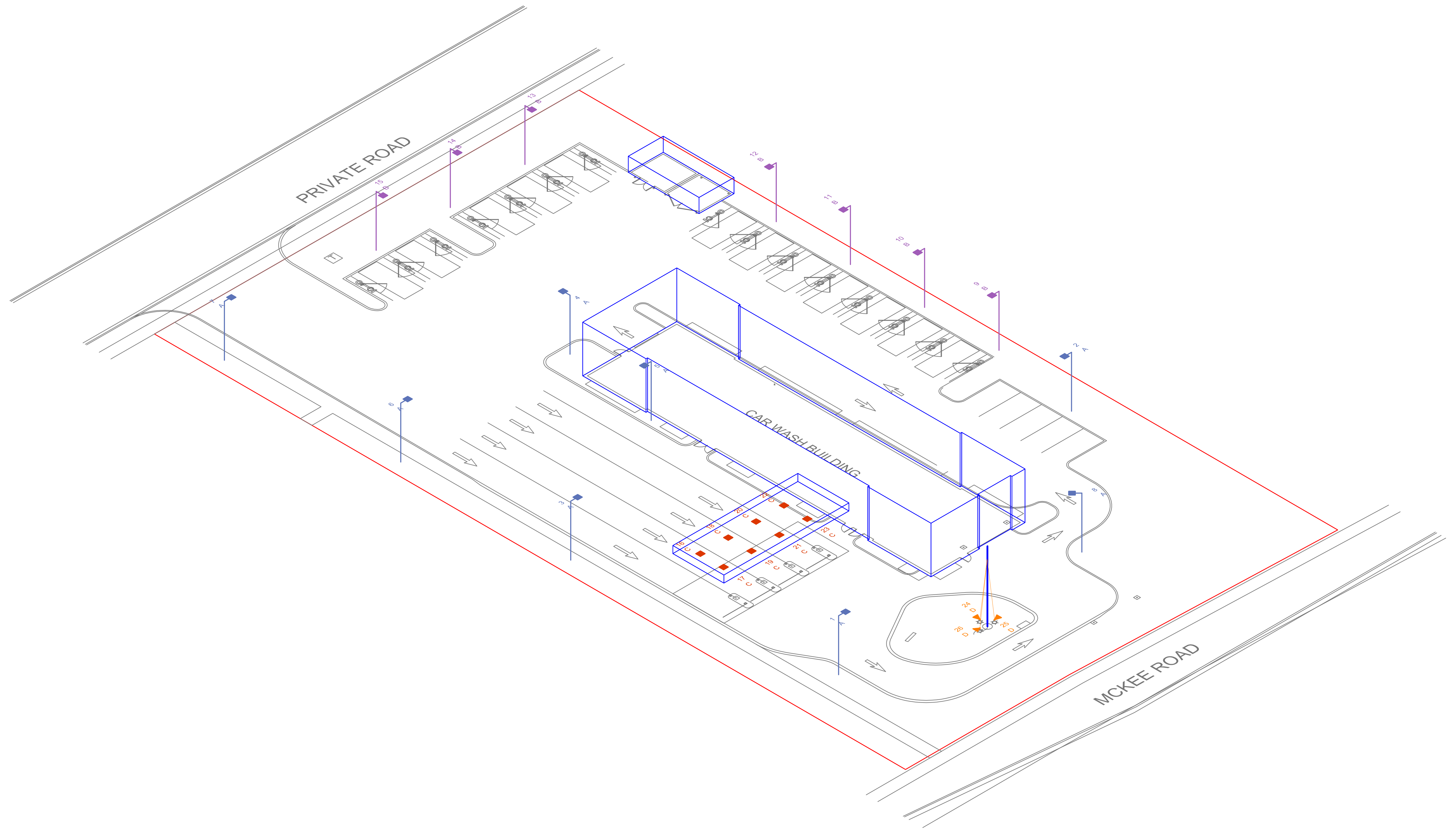
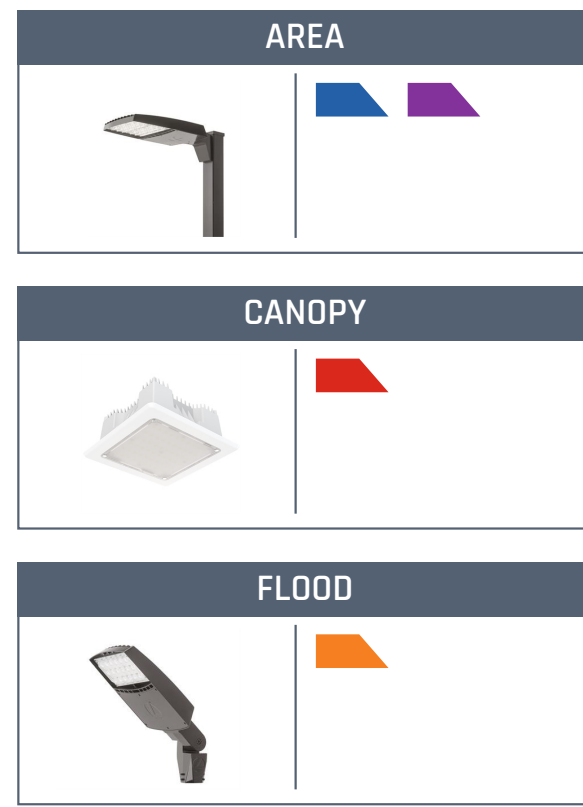
The RSX2 features an integral universal mounting mechanism that allows the luminaires to be mounted on most existing drill hole patterns. This "no-drill" solution provides significant labor savings. An easy-access door on the bottom of mounting arm allows for wiring without opening the electrical compartment. A mast adaptor, adjustable integral slipfitter and other mounting configurations are available.

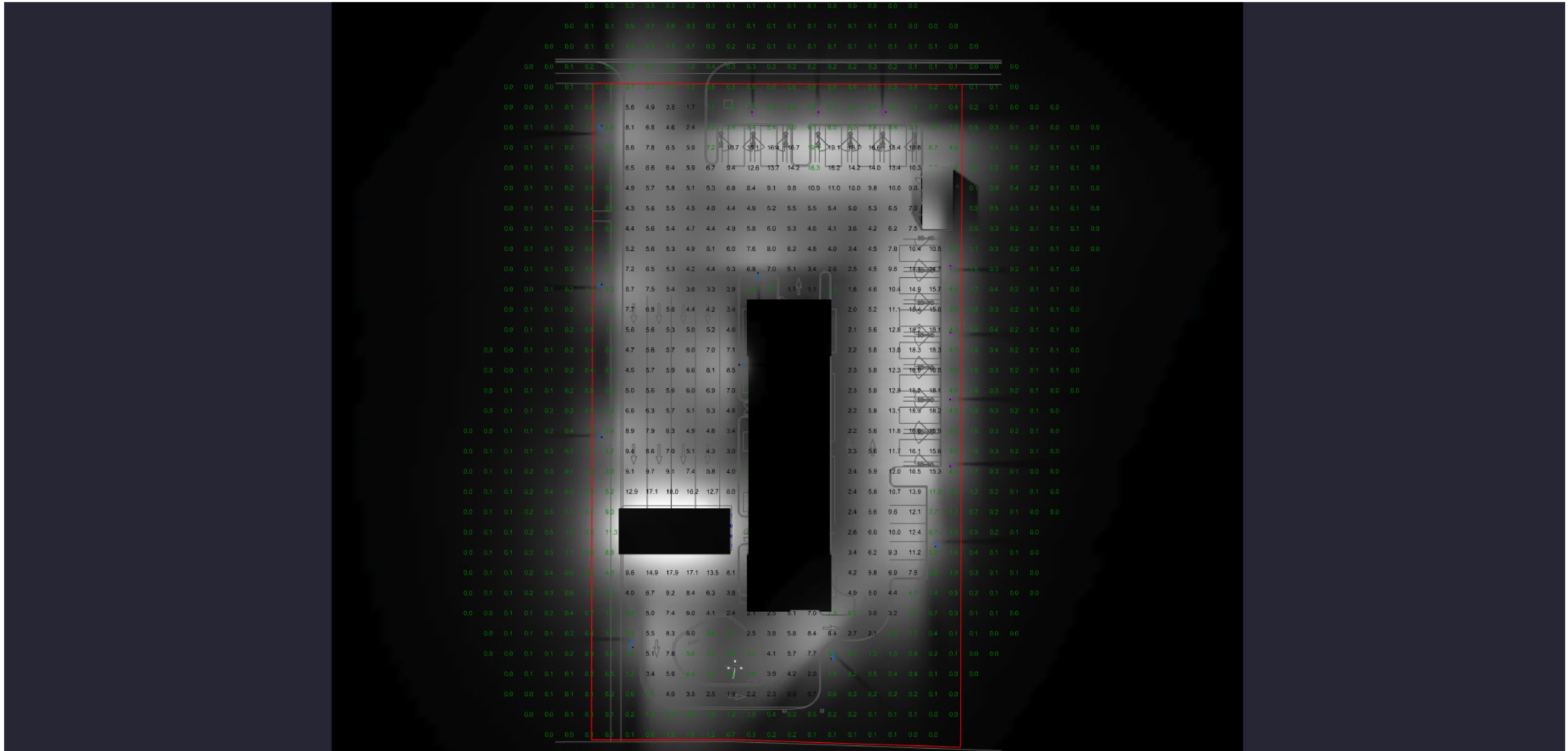
design select

Items marked by a **design select** qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.aaculighting.com/designselect. See ordering for details.

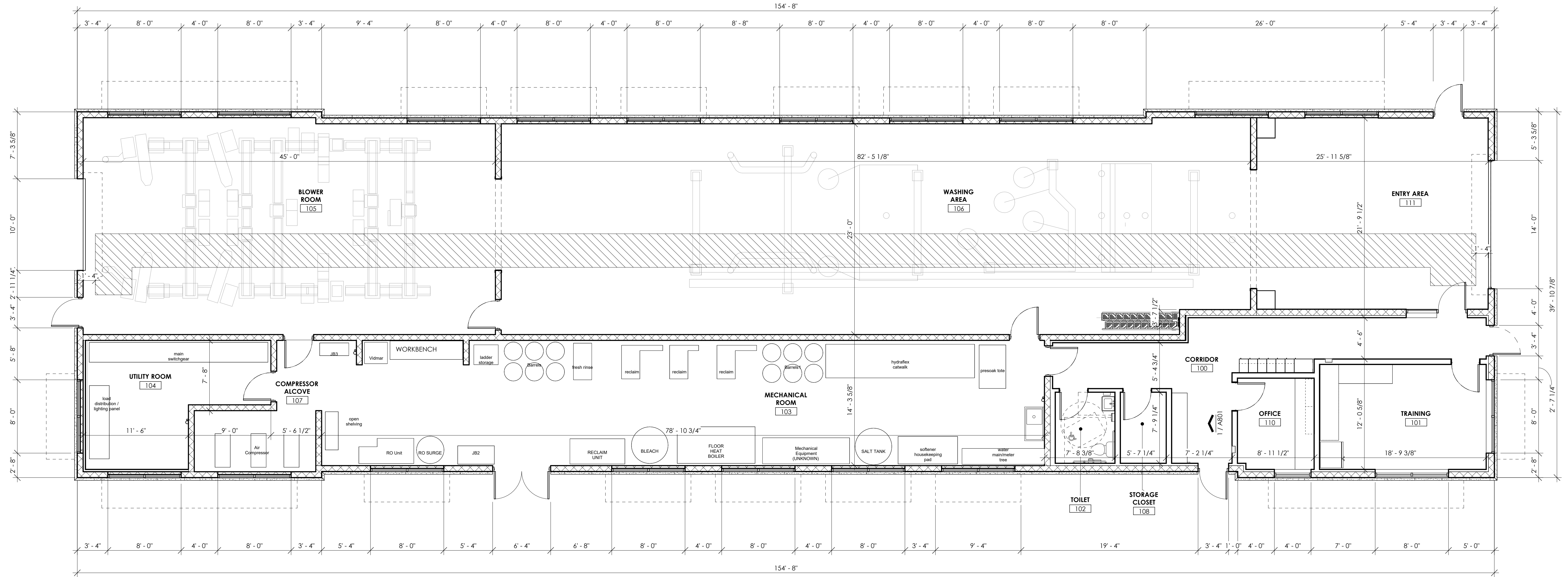
Ordering Information EXAMPLE: RSX2 LED P6 40K R3 MVOLT SPA DDBXD

Series	Performance Package	Color Temperature	Beam Spread	Mounting
RSX2 LED	P1	30K	300K	R2 Spot 2-1/8"
	P2	40K	400K	R3 Spot 2-1/8"
	P3	50K	500K	R4 Spot 2-1/8"
	P4	50K	500K	R5 Spot 2-1/8"
	P5	50K	500K	R6 Spot 2-1/8"
	P6	50K	500K	R7 Spot 2-1/8"
R5	50K	500K	R8 Spot 2-1/8"	
R6	50K	500K	R9 Spot 2-1/8"	
R7	50K	500K	R10 Spot 2-1/8"	
R8	50K	500K	R11 Spot 2-1/8"	
R9	50K	500K	R12 Spot 2-1/8"	
R10	50K	500K	R13 Spot 2-1/8"	
R11	50K	500K	R14 Spot 2-1/8"	
R12	50K	500K	R15 Spot 2-1/8"	
R13	50K	500K	R16 Spot 2-1/8"	
R14	50K	500K	R17 Spot 2-1/8"	
R15	50K	500K	R18 Spot 2-1/8"	
R16	50K	500K	R19 Spot 2-1/8"	
R17	50K	500K	R20 Spot 2-1/8"	
R18	50K	500K	R21 Spot 2-1/8"	
R19	50K	500K	R22 Spot 2-1/8"	
R20	50K	500K	R23 Spot 2-1/8"	
R21	50K	500K	R24 Spot 2-1/8"	
R22	50K	500K	R25 Spot 2-1/8"	
R23	50K	500K	R26 Spot 2-1/8"	
R24	50K	500K	R27 Spot 2-1/8"	
R25	50K	500K	R28 Spot 2-1/8"	
R26	50K	500K	R29 Spot 2-1/8"	
R27	50K	500K	R30 Spot 2-1/8"	
R28	50K	500K	R31 Spot 2-1/8"	
R29	50K	500K	R32 Spot 2-1/8"	
R30	50K	500K	R33 Spot 2-1/8"	
R31	50K	500K	R34 Spot 2-1/8"	
R32	50K	500K	R35 Spot 2-1/8"	
R33	50K	500K	R36 Spot 2-1/8"	
R34	50K	500K	R37 Spot 2-1/8"	
R35	50K	500K	R38 Spot 2-1/8"	
R36	50K	500K	R39 Spot 2-1/8"	
R37	50K	500K	R40 Spot 2-1/8"	
R38	50K	500K	R41 Spot 2-1/8"	
R39	50K	500K	R42 Spot 2-1/8"	
R40	50K	500K	R43 Spot 2-1/8"	
R41	50K	500K	R44 Spot 2-1/8"	
R42	50K	500K	R45 Spot 2-1/8"	
R43	50K	500K	R46 Spot 2-1/8"	
R44	50K	500K	R47 Spot 2-1/8"	
R45	50K	500K	R48 Spot 2-1/8"	
R46	50K	500K	R49 Spot 2-1/8"	
R47	50K	500K	R50 Spot 2-1/8"	
R48	50K	500K	R51 Spot 2-1/8"	
R49	50K	500K	R52 Spot 2-1/8"	
R50	50K	500K	R53 Spot 2-1/8"	
R51	50K	500K	R54 Spot 2-1/8"	
R52	50K	500K	R55 Spot 2-1/8"	
R53	50K	500K	R56 Spot 2-1/8"	
R54	50K	500K	R57 Spot 2-1/8"	
R55	50K	500K	R58 Spot 2-1/8"	
R56	50K	500K	R59 Spot 2-1/8"	
R57	50K	500K	R60 Spot 2-1/8"	
R58	50K	500K	R61 Spot 2-1/8"	
R59	50K	500K	R62 Spot 2-1/8"	
R60	50K	500K	R63 Spot 2-1/8"	
R61	50K	500K	R64 Spot 2-1/8"	
R62	50K	500K	R65 Spot 2-1/8"	
R63	50K	500K	R66 Spot 2-1/8"	
R64	50K	500K	R67 Spot 2-1/8"	
R65	50K	500K	R68 Spot 2-1/8"	
R66	50K	500K	R69 Spot 2-1/8"	
R67	50K	500K	R70 Spot 2-1/8"	
R68	50K	500K	R71 Spot 2-1/8"	
R69	50K	500K	R72 Spot 2-1/8"	
R70	50K	500K	R73 Spot 2-1/8"	
R71	50K	500K	R74 Spot 2-1/8"	
R72	50K	500K	R75 Spot 2-1/8"	
R73	50K	500K	R76 Spot 2-1/8"	
R74	50K	500K	R77 Spot 2-1/8"	
R75	50K	500K	R78 Spot 2-1/8"	
R76	50K	500K	R79 Spot 2-1/8"	
R77	50K	500K	R80 Spot 2-1/8"	
R78	50K	500K	R81 Spot 2-1/8"	
R79	50K	500K	R82 Spot 2-1/8"	
R80	50K	500K	R83 Spot 2-1/8"	
R81	50K	500K	R84 Spot 2-1/8"	
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R83	50K	500K	R86 Spot 2-1/8"	
R84	50K	500K	R87 Spot 2-1/8"	
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R111	50K	500K	R114 Spot 2-1/8"	
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R113	50K	500K	R116 Spot 2-1/8"	
R114	50K	500K	R117 Spot 2-1/8"	
R115	50K	500K	R118 Spot 2-1/8"	
R116	50K	500K	R119 Spot 2-1/8"	
R117	50K	500K	R120 Spot 2-1/8"	
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R153	50K	500K	R156 Spot 2-1/8"	
R154	50K	500K	R157 Spot 2-1/8"	
R155	50K	500K	R158 Spot 2-1/8"	
R156	50K	500K	R159 Spot 2-1/8"	
R157	50K	500K	R160 Spot 2-1/8"	
R158	50K	500K	R161 Spot 2-1/8"	
R159	50K	500K	R162 Spot 2-1/8"	
R160	50K	500K	R163 Spot 2-1/8"	
R161	50K	500K	R164 Spot 2-1/8"	
R162	50K	500K	R165 Spot 2-1/8"	
R163	50K	500K	R166 Spot 2-1/8"	
R164	50K	500K	R167 Spot 2-1/8"	
R165	50K	500K	R168 Spot 2-1/8"	
R166	50K	500K	R169 Spot 2-1/8"	
R167	50K	500K	R170 Spot 2-1/8"	
R168	50K	500K	R171 Spot 2-1/8"	
R169	50K	500K	R172 Spot 2-1/8"	
R170	50K	500K	R173 Spot 2-1/8"	
R171	50K	500K	R174 Spot 2-1/8"	
R172	50K	500K	R175 Spot 2-1/8"	
R173	50K	500K	R176 Spot 2-1/8"	
R174	50K	500K	R177 Spot 2-1/8"	
R175	50K	500K	R178 Spot 2-1/8"	
R176	50K	500K	R179 Spot 2-1/8"	
R177	50K	500K	R180 Spot 2-1/8"	
R178	50K	500K	R181 Spot 2-1/8"	
R179	50K	500K	R182 Spot 2-1/8"	
R180	50K	500K	R183 Spot 2-1/8"	
R181	50K	500K	R184 Spot 2-1/8"	
R182	50K	500K	R185 Spot 2-1/8"	
R183	50K	500K	R186 Spot 2-1/8"	
R184	50K	500K	R187 Spot 2-1/8"	
R185	50K	500K	R188 Spot 2-1/8"	
R186	50K	500K	R189 Spot 2-1/8"	
R187	50K	500K	R190 Spot 2-1/8"	
R188	50K	500K	R191 Spot 2-1/8"	
R189	50K	500K	R192 Spot 2-1/8"	
R190	50K	500K	R193 Spot 2-1/8"	
R191	50K	500K	R194 Spot 2-1/8"	
R192	50K	500K	R195 Spot 2-1/8"	
R193	50K	500K	R196 Spot 2-1/8"	
R194	50K	500K	R197 Spot 2-1/8"	
R195	50K	500K	R198 Spot 2-1/8"	
R196	50K	500K	R199 Spot 2-1/8"	
R197	50K	500K	R200 Spot 2-1/8"	
R198	50K	500K	R201 Spot 2-1/8"	
R199	50K	500K	R202 Spot 2-1/8"	
R200	50K	500K	R203 Spot 2-1/8"	
R201	50K	500K	R204 Spot 2-1/8"	
R202	50K	500K	R205 Spot 2-1/8"	
R203	50K	500K	R206 Spot 2-1/8"	
R204	50K	500K	R207 Spot 2-1/8"	
R205	50K	500K	R208 Spot 2-1/8"	
R206	50K	500K	R209 Spot 2-1/8"	
R207	50K	500K	R210 Spot 2-1/8"	
R208	50K	500K	R211 Spot 2-1/8"	
R209	50K	500K	R212 Spot 2-1/8"	
R210	50K	500K	R213 Spot 2-1/8"	
R211	50K	500K	R214 Spot 2-1/8"	
R212	50K	500K	R215 Spot 2-1/8"	
R213	50K	500K	R216 Spot 2-1/8"	
R214	50K	500K	R217 Spot 2-1/8"	
R215	50K	500K	R218 Spot 2-1/8"	
R216	50K	500K	R219 Spot 2-1/8"	
R217	50K	500K	R220 Spot 2-1/8"	
R218	50K	500K	R221 Spot 2-1/8"	
R219	50K	500K	R222 Spot 2-1/8"	
R220	50K	500K	R223 Spot 2-1/8"	
R221	50K	500K	R224 Spot 2-1/8"	
R222	50K	500K	R225 Spot 2-1/8"	
R223	50K	500K	R226 Spot 2-1/8"	
R224	50K	500K	R227 Spot 2-1/8"	
R225	50K	500K	R228 Spot 2-1/8"	
R226	50K	500K	R229 Spot 2-1/8"	
R227	50K	500K	R230 Spot 2-1/8"	
R228	50K	500K	R231 Spot 2-1/8"	
R229	50K	500K	R232 Spot 2-1/	





2 / PR003



ARCHITECTURAL FLOOR PLAN

1 / PR003



PRELIMINARY FLOOR PLAN

CREW CARWASH, INC
FITCHBURG, WI



NORTH

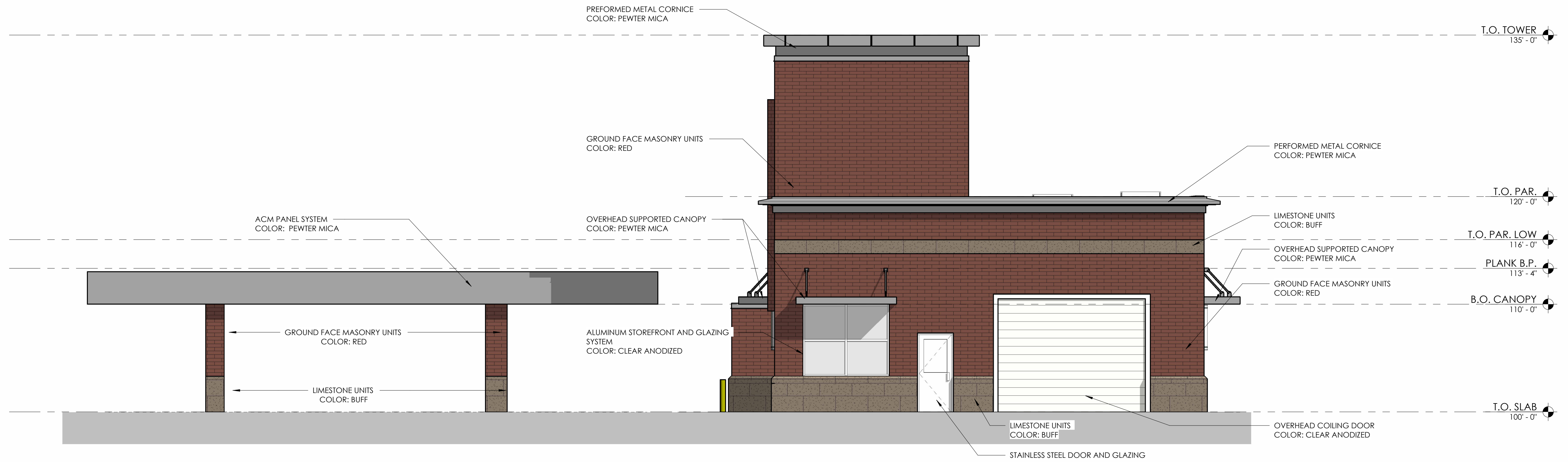
11/26/2024

PRO 2024

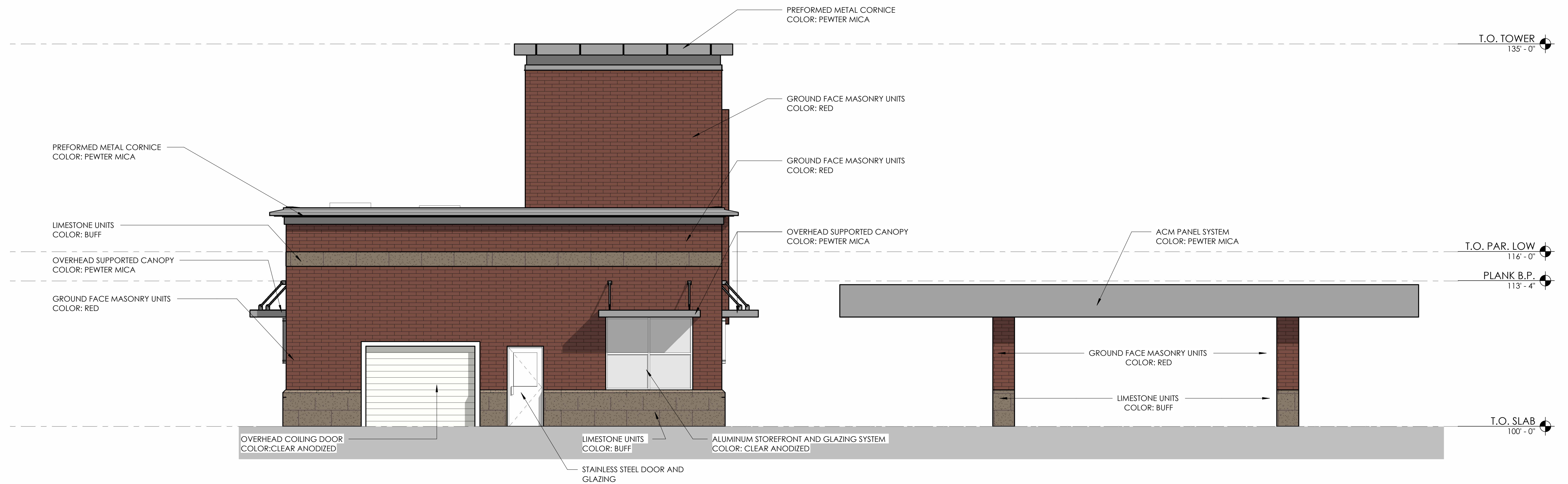
3/16" = 1'-0"



Solutions by Design Since 1937



SOUTH ELEVATION



NORTH ELEVATION



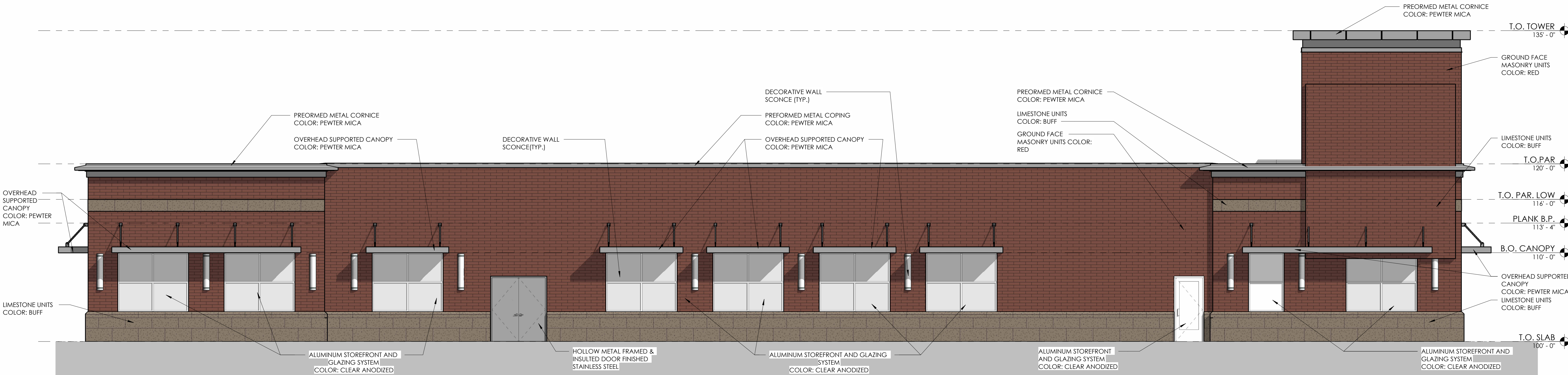
CREW CARWASH - BUILDING ELEVATIONS

CREW CARWASH, INC
FITCHBURG, WI

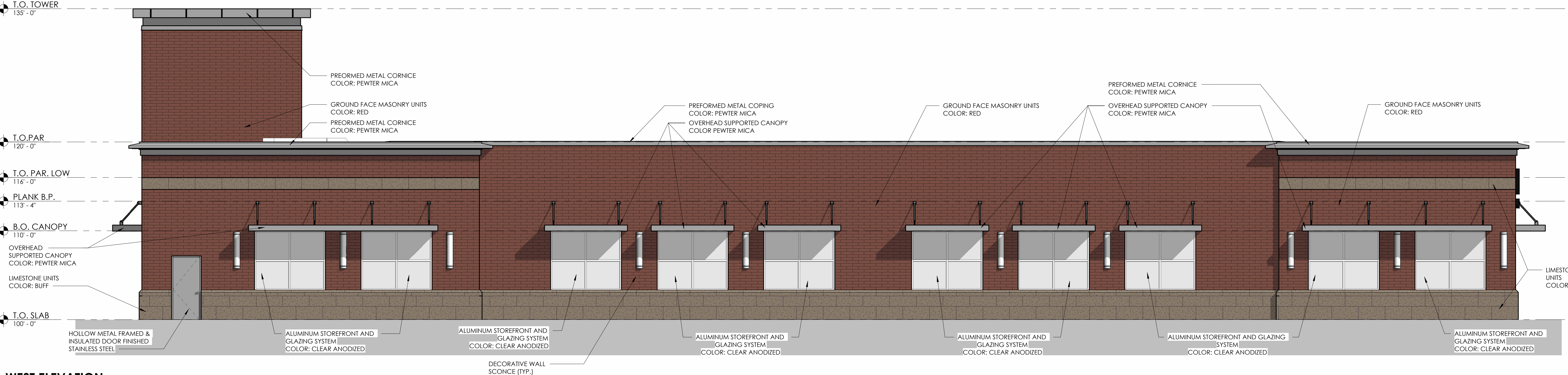
11/26/2024
PRO 2024
3/16" = 1'-0"



Solutions by Design Since 1937



EAST ELEVATION



WEST ELEVATION



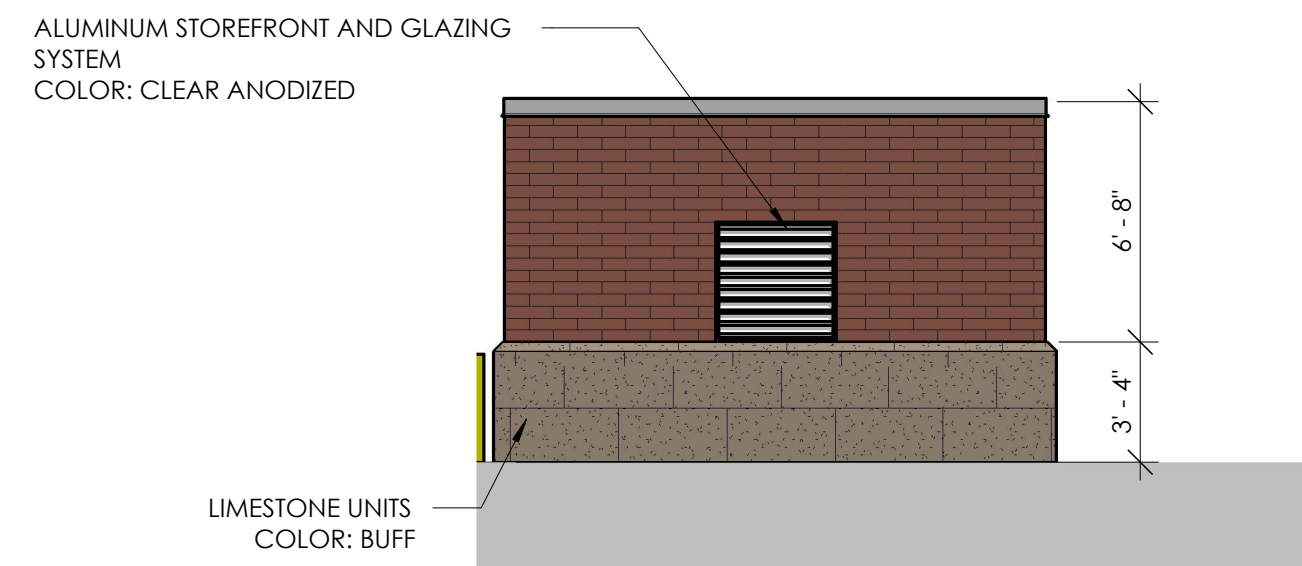
CREW CARWASH - BUILDING ELEVATIONS

CREW CARWASH, INC
FITCHBURG, WI

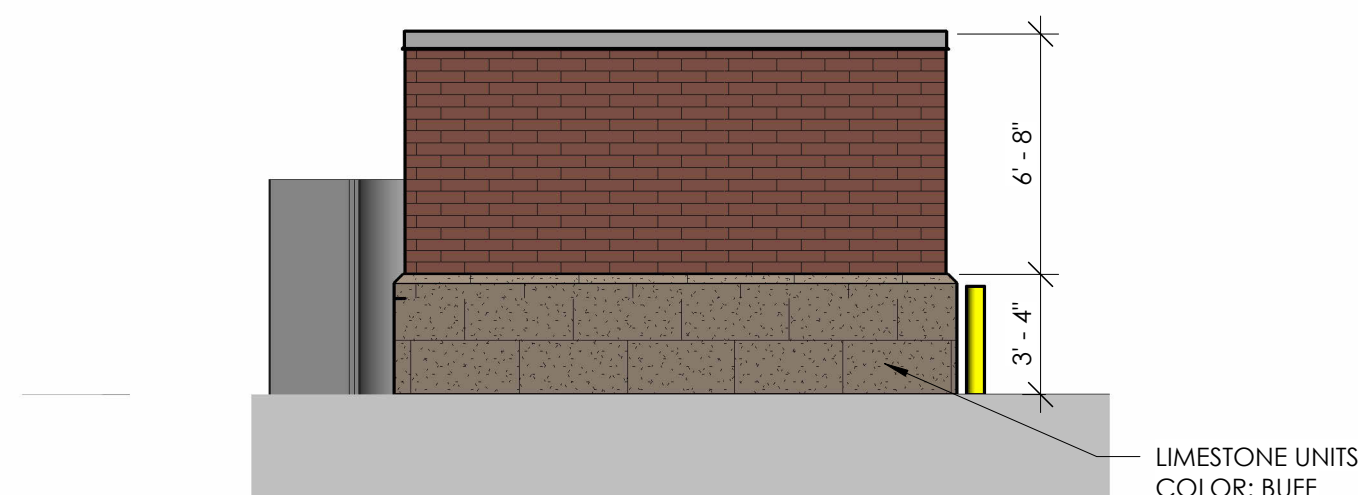
11/26/2024
PRO 2024
3/16" = 1'-0"



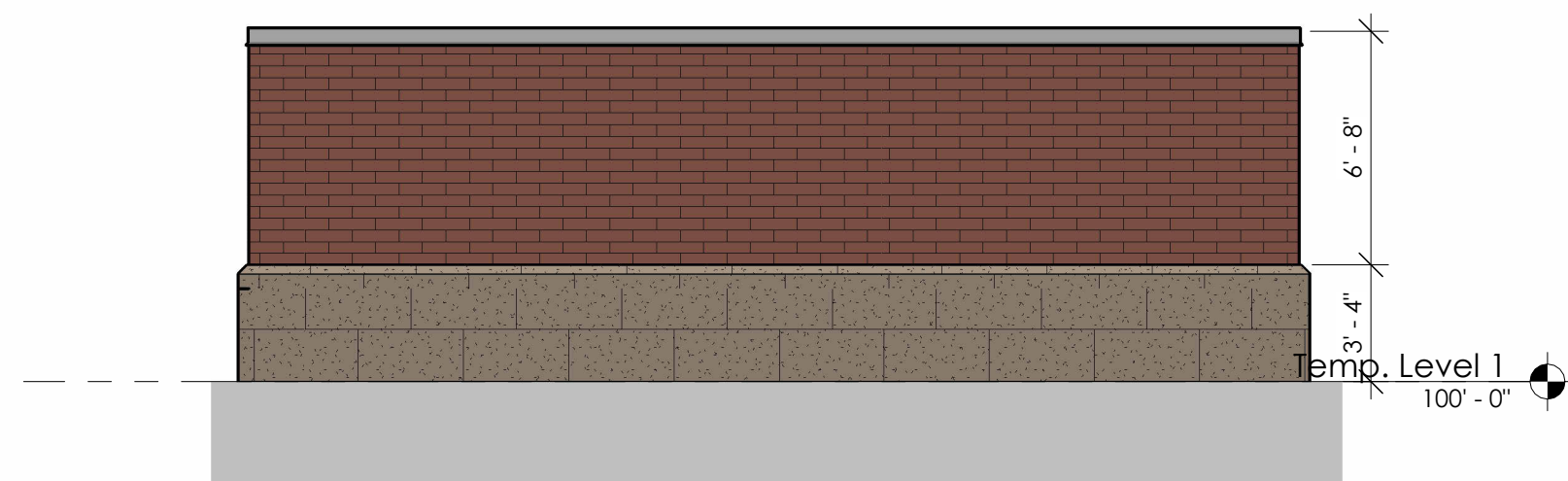
Solutions by Design Since 1937



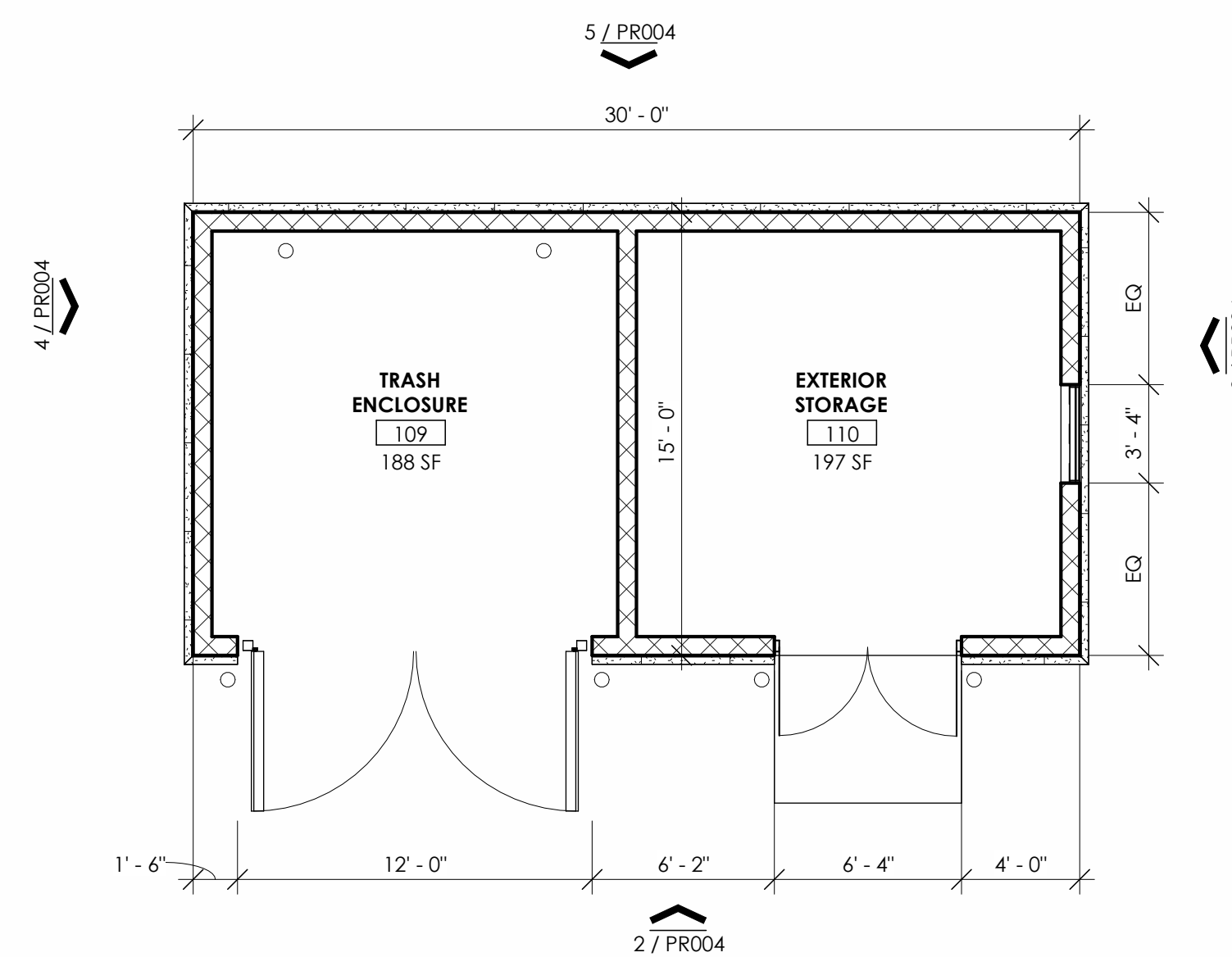
3 SOUTH TRASH ENCLOSURE ELEVATION
3/16" = 1'-0"



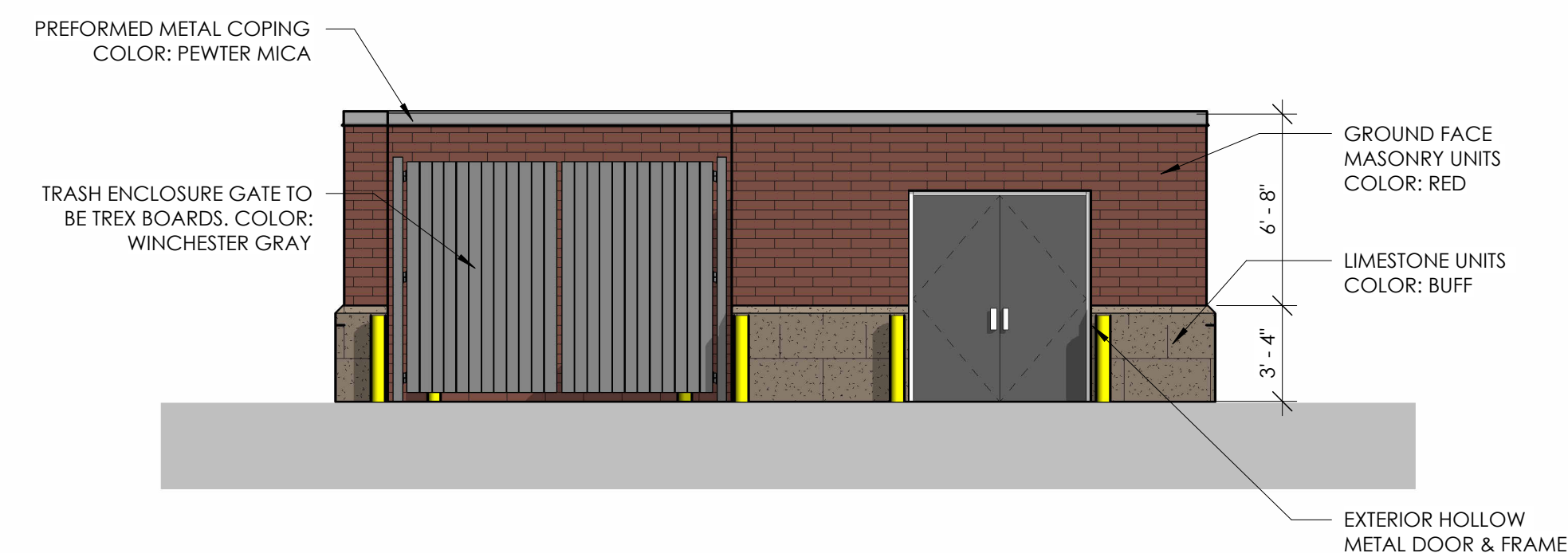
4 NORTH TRASH ENCLOSURE ELEVATION
3/16" = 1'-0"



5 EAST TRASH ENCLOSURE ELEVATION
3/16" = 1'-0"



1 TRASH/ENCLOSURE FLOOR PLAN
3/16" = 1'-0"



2 WEST TRASH ENCLOSURE ELEVATION
3/16" = 1'-0"



CREW CARWASH - TRASH/STORAGE ENCLOSURE

CREW CARWASH, INC
FITCHBURG, WI

11/26/2024
PRO 2024
3/16" = 1'-0"



Solutions by Design Since 1937



CREW CARWASH - 3D VIEWS

CREW CARWASH, INC
FITCHBURG, WI

11/18/2024
PRO 2024



Solutions by Design Since 1937