



FINAL ENGINEERING PLANS

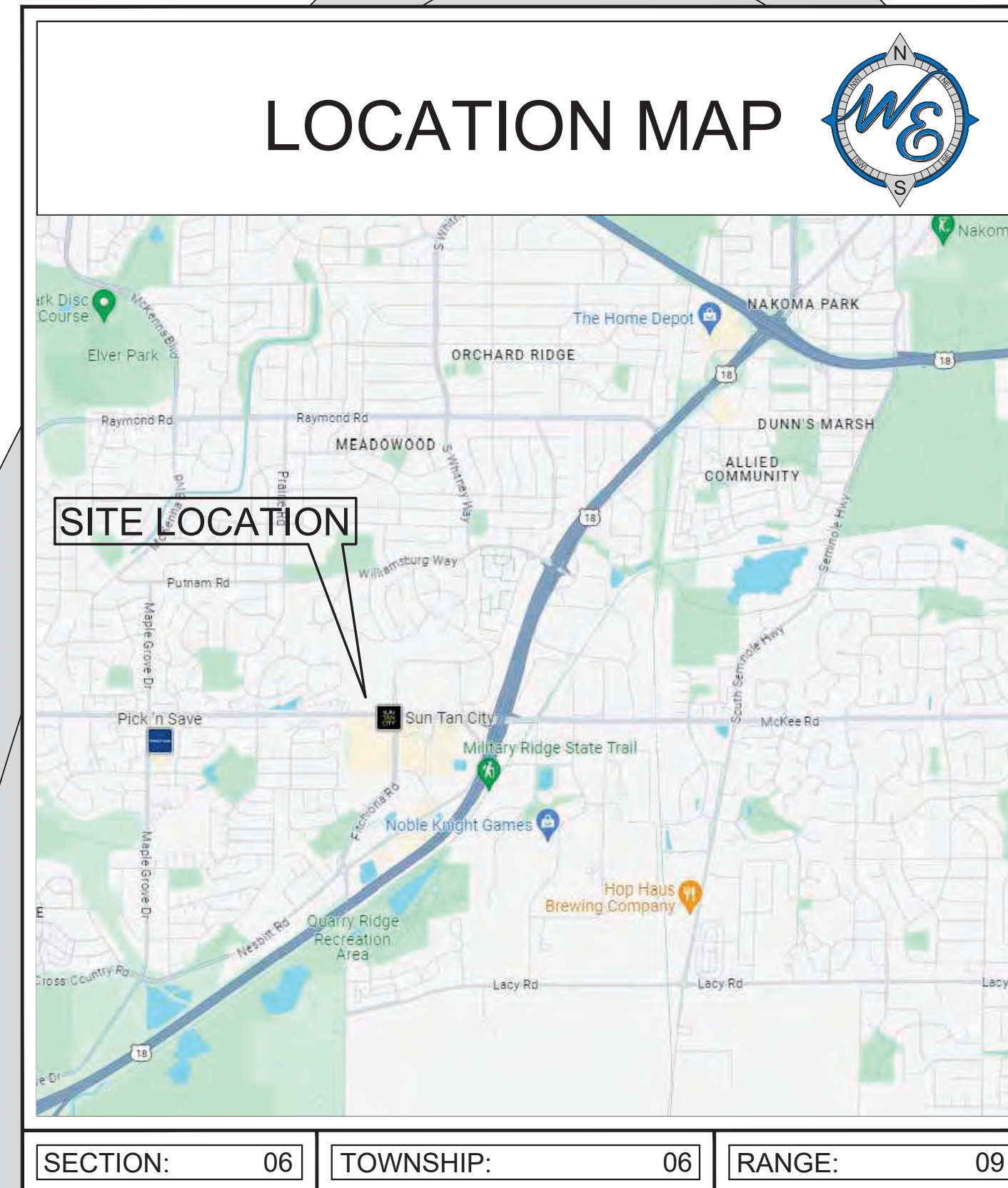
FOR

McDONALD'S - FITCHBURG, WI

AT
 NWC OF MCKEE ROAD AND FITCHRONA ROAD
 CITY OF FITCHBURG
 DANE COUNTY, WISCONSIN

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NOTE: THE DESIGNS CONTAINED IN THE ABOVE PLANS AND SUPPORTING DOCUMENTS WERE PREPARED WITH THE UNDERSTANDING THAT THEY WOULD BE USED AS A WHOLE PLAN SET. EACH CONSTRUCTION DISCIPLINE IS TO USE ALL THE PLANS AND SUPPORTING DOCUMENTS TOGETHER AS A WHOLE AND NOT AS SEPARATE DOCUMENTS. EACH CONTRACTOR IS TO BECOME COMPLETELY FAMILIAR WITH THE WHOLE PLAN SET AND THE EXISTING SITE CONDITIONS. SHOULD ANYTHING WITH ALL THESE PLANS AND SUPPORTING DOCUMENTS BE INCONSISTENT WITH THE SITE CONDITIONS THEN THE CONTRACTOR IS TO CONTACT THE ENGINEER IMMEDIATELY BEFORE ANY CONSTRUCTION IS STARTED.



BENCHMARK

REFERENCE BENCHMARK
 BEARINGS FOR THIS SURVEY AND MAP ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, DANE COUNTY. THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SECTION 06-06-09, RECORDED AS S88°12'32"E.
 ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
 BENCHMARK IS A BRASS CAP IN CONCRETE MONUMENT MARKING THE SOUTHWEST CORNER OF SECTION 06, T06N R09E, ELEVATION = 1058.3'

SCOPE OF WORK

NEW CONSTRUCTION

EXISTING	DESCRIPTION	PROPOSED
	CATCH BASIN INLET	
	STORM MANHOLE	
	SANITARY MANHOLE	
	VALVE VAULT	
	FIRE HYDRANT	
	FLARED END SECTION	
	ELECTRICAL POWER POLE	
	OVERHEAD TRAFFIC SIGNAL	
	TRAFFIC SIGNAL MANHOLE	
	OVERHEAD ELECTRIC WIRES	
	TRANSFORMER PAD	
	TELEPHONE PEDESTAL	
	TELEPHONE MANHOLE	
	CABLE TELEVISION PEDESTAL	
	COMMONWEALTH EDISON MANHOLE	
	B/BOX	
	LIGHT POLE	
	SIGN	
	BOLLARD POLE	
	GAS MARKER	
	ELECTRIC MARKER	
	TELEPHONE MARKER	
	WATER MAIN	
	GAS MAIN	
	ELECTRIC LINE	
	TELEPHONE LINE	
	CABLE TV LINE	
	SANITARY SEWER	
	STORM SEWER	
	GUY POLE	
	CONIFEROUS TREE W/DIAMETER	
	DECIDUOUS TREE W/DIAMETER	
	WOOD FENCE	
	CHAIN LINK FENCE	
	METAL GUARDRAIL	
	CONCRETE SURFACE	
	DEPRESSED CURB	
	CONTOUR LINE	
	FINISHED FLOOR ELEVATION	
	PAVEMENT ELEVATION	
	MATCH EXISTING ELEVATION	
	GROUND ELEVATION	
	TOP OF WALK ELEVATION	
	TOP OF RETAINING WALL ELEVATION	
	FLOW LINE ELEVATION	
	TOP OF CURB ELEVATION	
	RIM ELEVATION	
	DOWNSPOUT LOCATION	
	PERVIOUS AREA SLOPE DIRECTION	
	PAVEMENT SLOPE DIRECTION	
	OVERLAND OVERFLOW DIRECTION	
	INLET PROTECTION	
	INLET BASKET FILTER	



STATE OF ILLINOIS) SS
 COUNTY OF KANE)

I, JEFFREY C. MILLER, A LICENSED PROFESSIONAL ENGINEER OF WISCONSIN, HEREBY CERTIFY THAT THESE CIVIL ENGINEERING PLANS, NOT THE SUPPORTING DOCUMENTS, AS LISTED IN THE INDEX, HAVE BEEN PREPARED UNDER MY PERSONAL DIRECTION. THESE PLANS ARE INTENDED TO BE USED AS AN INTEGRAL PART OF THE PROJECT SPECIFICATIONS AND CONTRACT DOCUMENTS.

DATE: _____

WISCONSIN LICENSED PROFESSIONAL ENGINEER NO. 33217-006.
 MY LICENSE EXPIRES ON 07-31-2026.

UNLESS THIS DOCUMENT BEARS ORIGINAL SIGNATURE AND EMBOSSED SEAL OF THE DESIGN ENGINEER, IT IS NOT A VALID DOCUMENT.

WISCONSIN PROFESSIONAL DESIGN FIRM LICENSE NO. 4258-11

COVER SHEET

DATE	
NO.	
REVISIONS	
Prepared For:	McDonald's 110 N. Carpenter St. Chicago, IL 60607
McDonald's - FITCHBURG, WI	NWC of McKee Road and Fitchrona Road Fitchburg, Wisconsin
Prepared By:	
watermark-engineering.com 2631 Ginger Woods Pkwy Aurora, IL 60502 (630) 975-1800	
CHECKED BY: J. MILLER	DESIGN BY: J. VOLANTI
DRAWN BY: J. VOLANTI	DATE: DECEMBER 5, 2024
SCALE: NONE	PROJECT NO.: 24-001
C-1	LC #48-1082

COVER SHEET

GEOMETRIC PLAN NOTES:

1. PROPOSED IMPROVEMENTS ARE PARALLEL AND PERPENDICULAR TO THE NORTHERN AND WESTERN PROPERTY LINES.
2. ALL RADIUS DIMENSIONS ARE TO BACK OF CURB.
3. SEE ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS.
4. ALL STRIPING TO BE DOUBLE COATED 4" YELLOW PAINT UNLESS OTHERWISE NOTED.
5. WHERE PEDESTRIANS HAVE TO CROSS A TAPERING RAMP OR CURB RAMP THE FACE AND TOP OF CURB ARE TO BE PAINTED USING YELLOW, SLIP RESISTANT PAINT.

GENERAL NOTES:

1. THESE PLANS ARE BASED ON THE FINAL ENGINEERING PLANS (PROJECT #22-11636 DATED 9/11/24) PREPARED BY: JSD 507 W. VERONA AVE., SUITE 500, VERONA, WI 53593
2. PRIOR TO CONSTRUCTION, CONTRACTOR TO CONTACT THE DESIGN ENGINEER AND ARCHITECT TO VERIFY THAT THEY ARE WORKING FROM THE MOST CURRENT SET OF PLANS AND SPECIFICATIONS.

ON SITE PARKING DATA

REGULAR SPACES	32
ADA ACCESSIBLE SPACES	2
TOTAL SPACES	34

PARKING REQUIREMENT: 6 SPACES PER 1000 SF OF GROSS BUILDING AREA (3,900/1000*6 = 23 SPACES REQUIRED)

34 SPACES PROVIDED > 23 SPACES REQUIRED ∴ OK

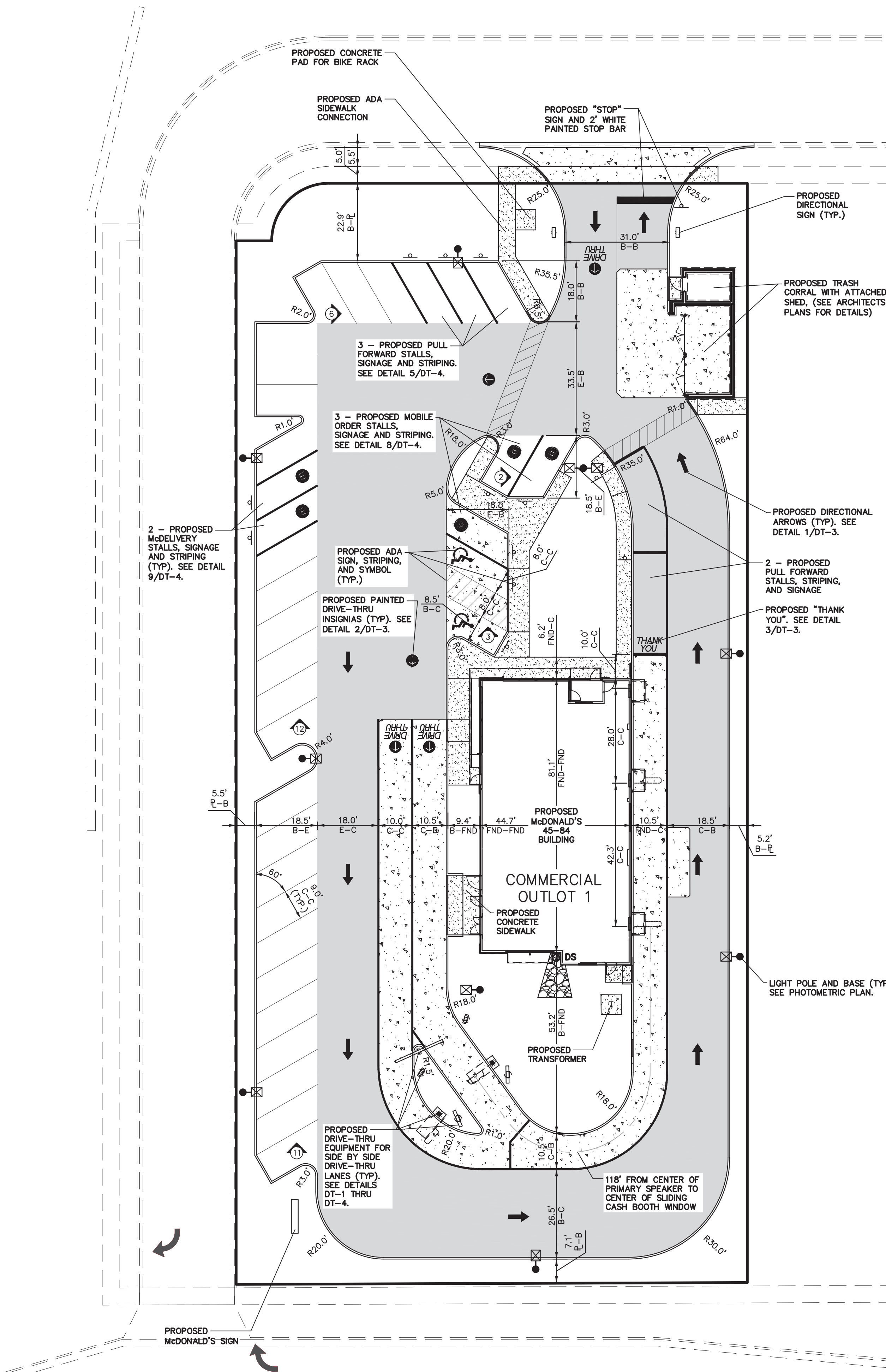
SITE DATA

ZONING	=	PDD-GIP
LOT AREA	=	48,710 S.F. (1.12 AC.)
PERVIOUS AREA	=	12,137 S.F. (25%)
IMPERVIOUS AREA	=	36,573 S.F. (75%)
BUILDING AREA	=	3,900 S.F.±
SEATS	=	35±

PAVEMENT LEGEND

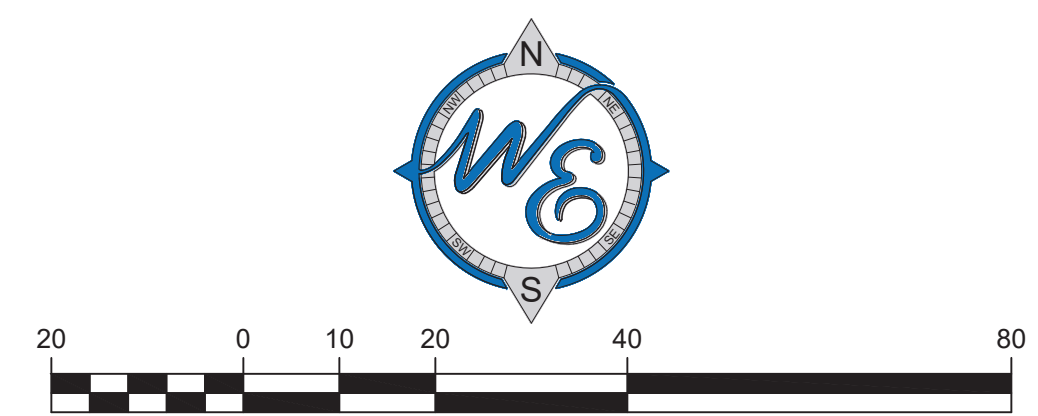
NOTES:

1. REFERENCE WIS.D.O.T. STANDARD SPECIFICATIONS (LATEST EDITION) FOR PAVEMENTS, AGGREGATE BASE COURSE, SUB-BASE AND FOR FABRICS.
2. ASPHALT BINDER COURSE TO BE BASED ON ZONE MAP FDM 14-10, ATTACHMENT 5.8, WHEREIN NORTHERN ZONES WILL USE 58-345 AND SOUTHERN ZONES WILL USE 58-285.
3. THE APPLICATION RATES FOR THE PRIME COAT AND TACK COAT ARE TO BE 0.30 AND 0.10 GALLONS PER SQUARE YARD, RESPECTIVELY.
4. SEE PROJECT SPECIFICATIONS FOR SUB-BASE AND BASE COURSE COMPACTION.
5. ALL CONCRETE FLATWORK TO INCLUDE A JOINTING PATTERN SUBMITTAL TO THE CONSTRUCTION MANAGER. CONTRACTOR TO STAY AS CLOSE TO 9'x9' SQUARE PANELS IN LARGE CONCRETE FLATWORK AREAS AS POSSIBLE.
6. FOR SIDEWALKS, PROVIDE TOOLED JOINTS AT 5' O.C., CONTRACTION JOINTS AT 15' O.C., EXPANSION JOINTS AT 45' O.C.
7. PROVIDE AN EXPANSION JOINT ADJACENT TO ALL STRUCTURES. THESE JOINTS SHOULD BE SEALED WITH A TOOL-FINISHED SILICONE SEALANT PER WIS.D.O.T. STANDARD.



DIMENSION LEGEND

F = FACE	FNC = FENCE
FND = FOUNDATION	R = RADIUS
B = BACK	C = CENTER
E = EDGE	PL = PROPERTY LINE



GEOMETRIC PLAN

DATE: _____

NO. _____

REVISIONS: _____

Prepared For:

McDonald's
110 N. Carpenter St.
Chicago, IL 60607

McDONALD'S - FITCHBURG, WI
NWC of McKee Road and Fitchrona Road
Fitchburg, Wisconsin

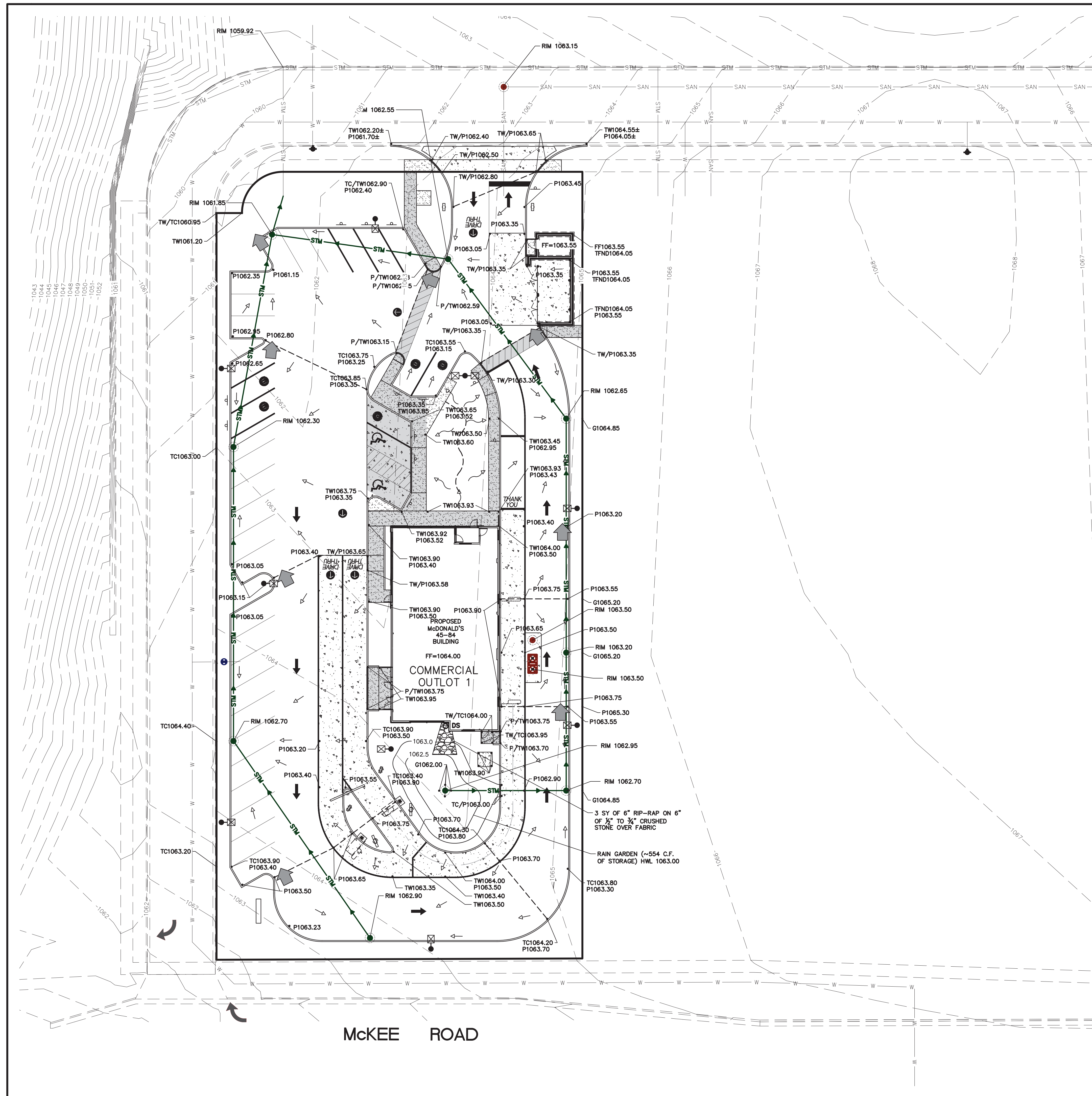
Prepared By:

Watermark Engineering Resources
watermark-engineering.com | 2631 Ginger Woods Pkwy | Aurora, IL 60502 | (630) 375-1800

CHECKED BY: J. MILLER
DESIGN BY: J. VOLANTI
DRAWN BY: J. VOLANTI
DATE: DECEMBER 3, 2024
SCALE: 1" = 20'
PROJECT NO.: 24-001

C-2
LC #48-1082


GEOMETRIC PLAN



GRADING PLAN NOTES:

- UNLESS OTHERWISE SPECIFIED, TOP OF CURB (TC) AND/OR TOP OF WALK ELEVATIONS ARE 0.5' HIGHER THAN THE ADJACENT FLOW LINE (FL) OR PAVEMENT (P) ELEVATIONS.
- IN ALL LOCATIONS WHERE ELEVATIONS ARE SHOWN AS ±, THE ELEVATION HAS BEEN DETERMINED BASED ON INTERPOLATED GRADES FROM THE SURVEY. CONTRACTOR IS TO VERIFY THESE GRADES PRIOR TO CONSTRUCTION OF ANY IMPROVEMENTS WITHIN THE PROXIMITY OF THESE INTERPOLATED GRADES AND REPORT THEM TO THE DESIGN ENGINEER FOR VERIFICATION OF PROPOSED SLOPES PRIOR TO INSTALLATION OF PROPOSED IMPROVEMENTS. DESIGN ENGINEER IS NOT RESPONSIBLE FOR SLOPES OF PROPOSED IMPROVEMENTS BASED ON THESE ± GRADES WITHOUT CONFIRMATION OF EXISTING ELEVATIONS AT TIME OF CONSTRUCTION.
- PAVING, SIDEWALK, AND CURBING IS NOT TO BE INSTALLED IN SUCH A WAY THAT IT WILL BLOCK THE FLOW OF WATER AWAY FROM THE BUILDING INCLUDING BUT NOT LIMITED TO WEEP HOLES, WICKS, DRAINAGE SCUPPERS OR PIPES, AND LANDSCAPING.
- ALL RETAINING AND/OR DECORATIVE LANDSCAPE WALLS OR CURBS SHOWN ON THIS PLAN, INCLUDING DETAILS AND SECTIONS, ARE TO ILLUSTRATE GENERAL LOCATION, LENGTH, AND HEIGHT. STRUCTURAL DESIGN, INCLUDING PROPER DRAINAGE, TIE-BACKS, AND SHORING AS WELL AS CONSTRUCTION MEANS ARE NOT ADDRESSED AS PART OF THESE PLANS. A STRUCTURAL ENGINEER SHOULD BE ENGAGED BY THE GENERAL CONTRACTOR AS THEY DEEM NECESSARY. WATERMARK ENGINEERING RESOURCES ASSUMES NO LIABILITY FOR THE DESIGN OR CONSTRUCTION OF ANY STRUCTURAL ELEMENT.

 = A.D.A. ACCESSIBLE ROUTE (SEE SHEET C-4 FOR DETAILS)

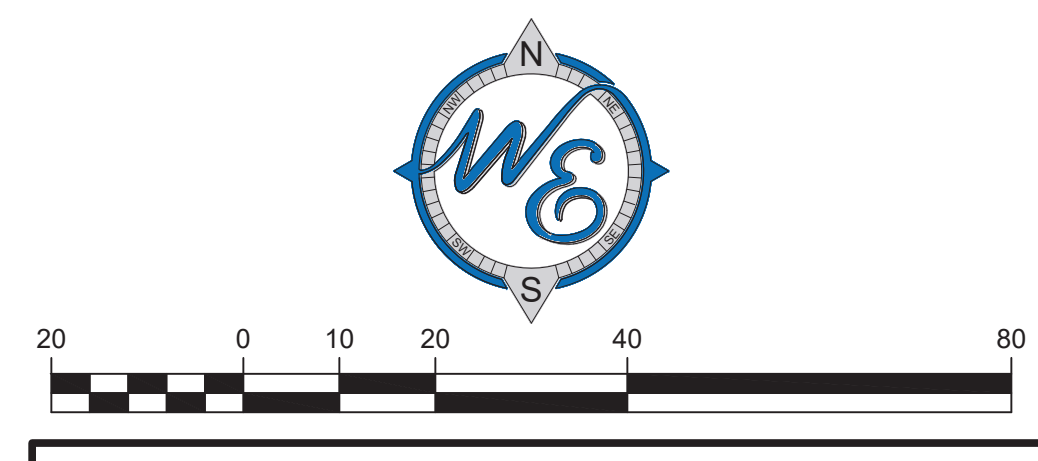
DATE	
REVISIONS	
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Prepared For:	
McDonald's 110 N. Carpenter St. Chicago, IL 60607 McDONALD'S - FITCHBURG, WI NWC of McKee Road and Fitchrona Road Fitchburg, Wisconsin	
	
Prepared By:	

Prepared By:



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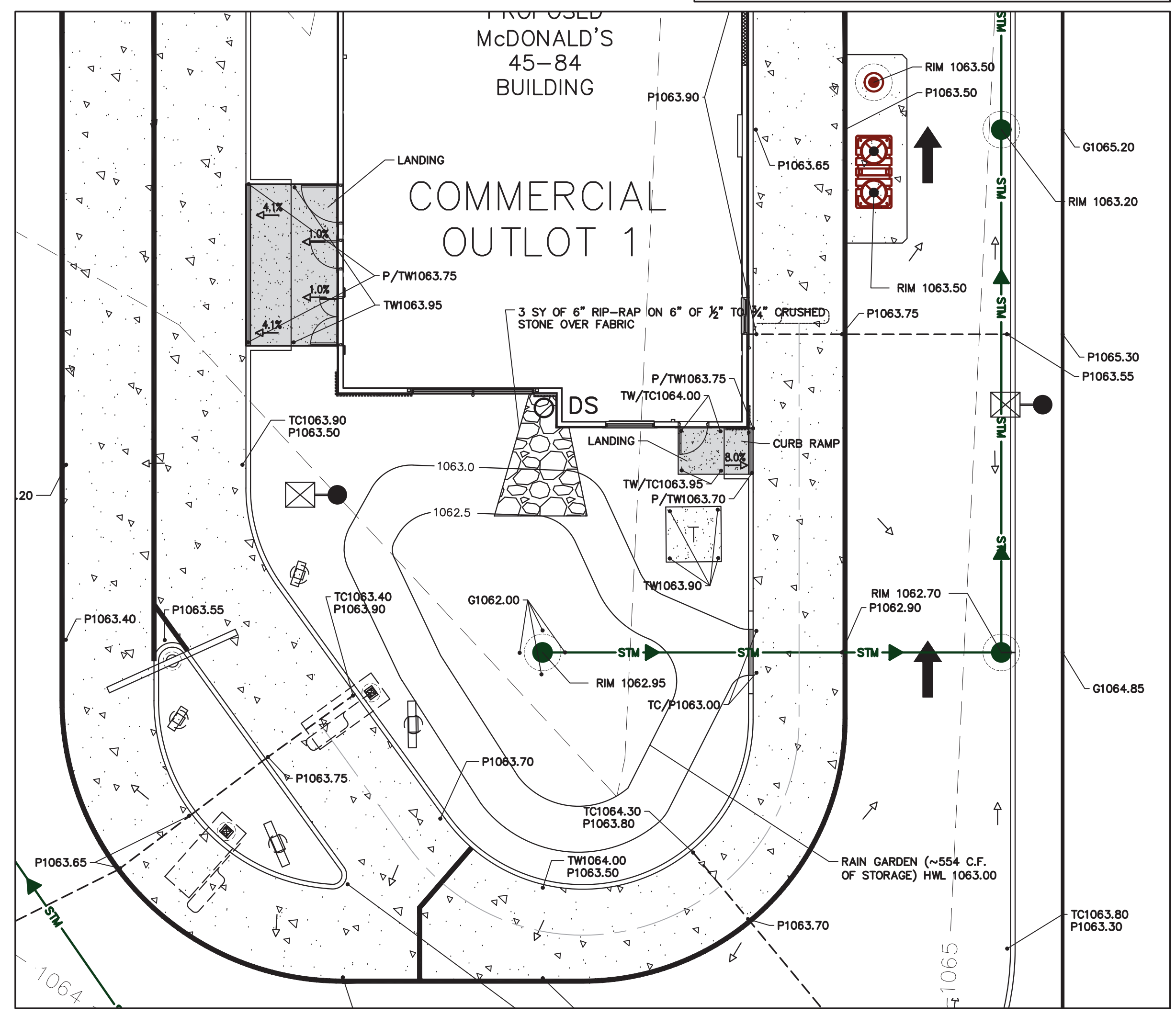
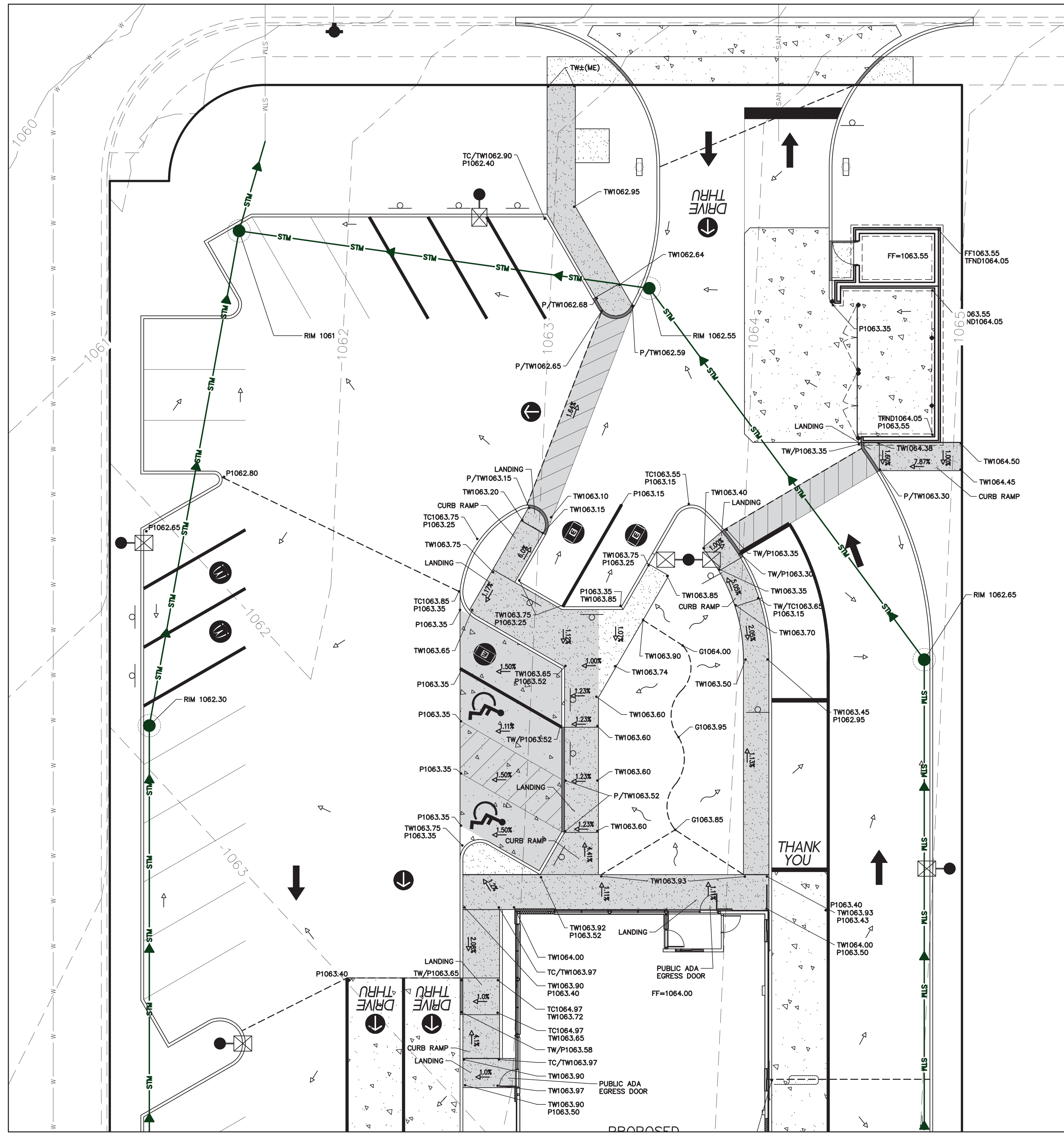
CHECKED BY: J. MILLER
 DESIGN BY: J. VOLANTI
 DRAWN BY: J. VOLANTI
 DATE: DECEMBER 5, 2024
 SCALE: 1" = 20'
 PROJECT NO.: 24-001



GRADING PLAN

C-3
 LC #48-1082

GRADING PLAN



█ = A.D.A. ACCESSIBLE ROUTE



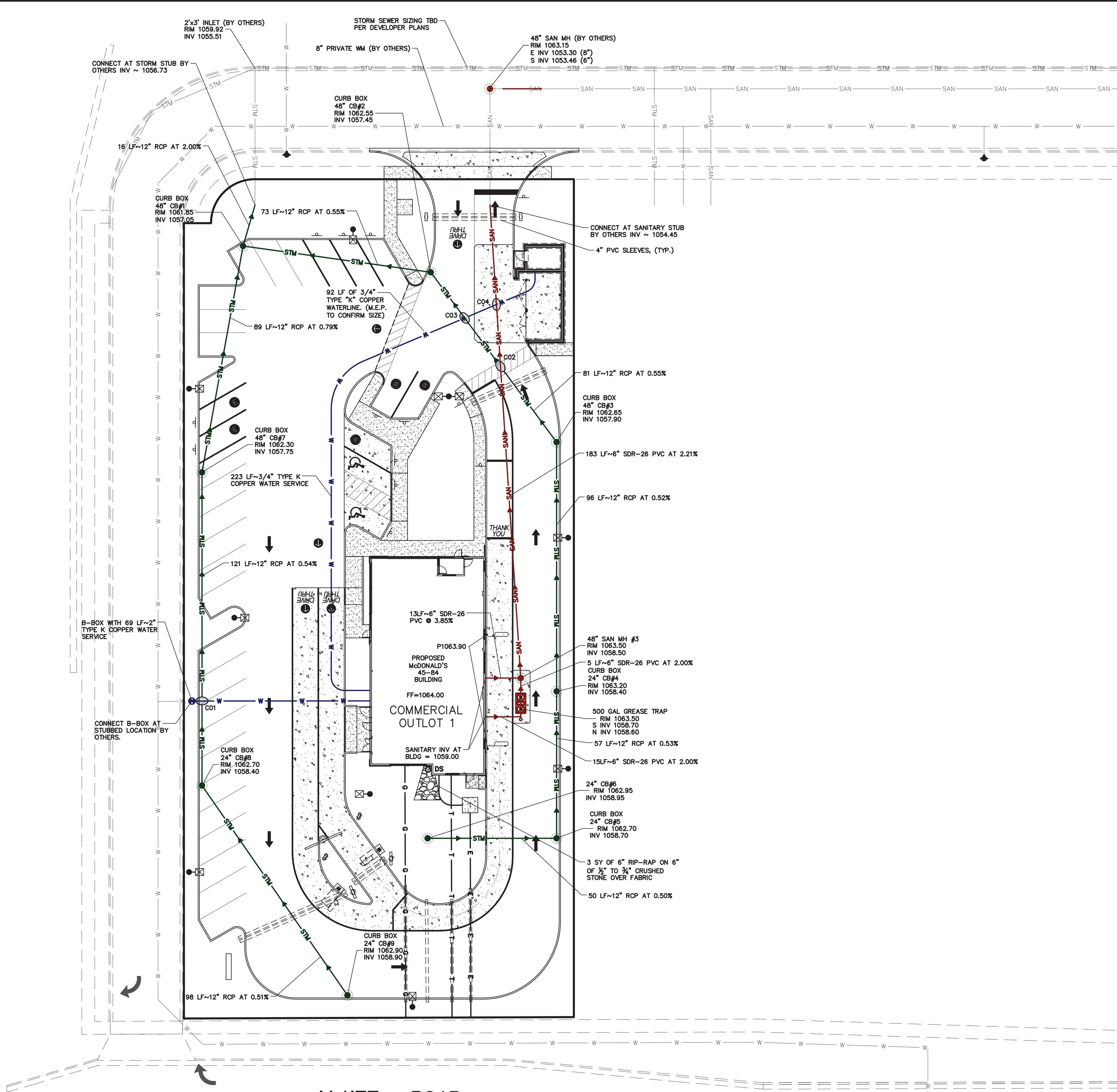
ACCESSIBLE ROUTE GRADES AND DETAILS

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 PREPARED BY: JSD
 507 W. VERONA AVE., SUITE 500, VERONA, WI 53593

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DATE	
REVISIONS	
NO.	
Prepared For:	
McDonald's 110 N. Carpenter St. Chicago, IL 60607 McDONALD'S - FITCHBURG, WI NWC of McKee Road and Fitchrona Road Fitchburg, Wisconsin	
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CHECKED BY: J. MILLER	PROJECT NO.: 24-001
DESIGN BY: J. VOLANTI	
DRAWN BY: J. VOLANTI	
DATE: DECEMBER 3, 2024	
SCALE: 1" = 10'	
C-4	
LC #48-1082	

ACCESSIBLE ROUTE GRADES AND DETAILS



GENERAL NOTES:

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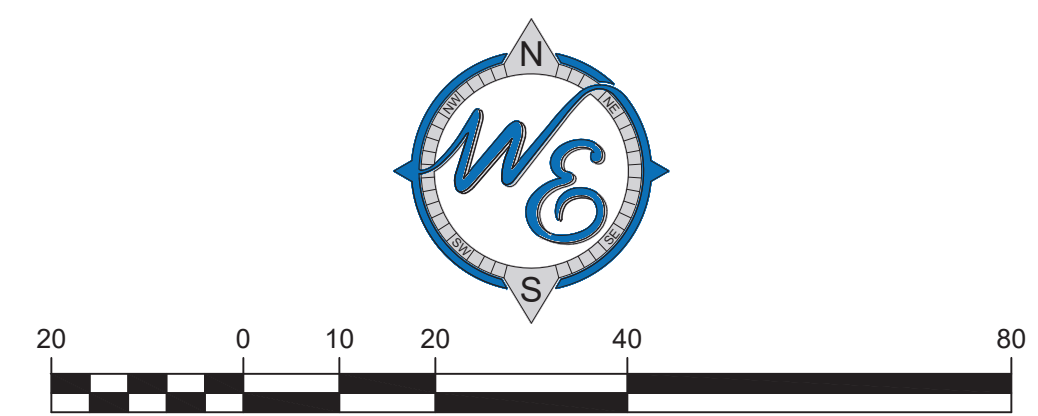
UTILITY PLAN NOTES:

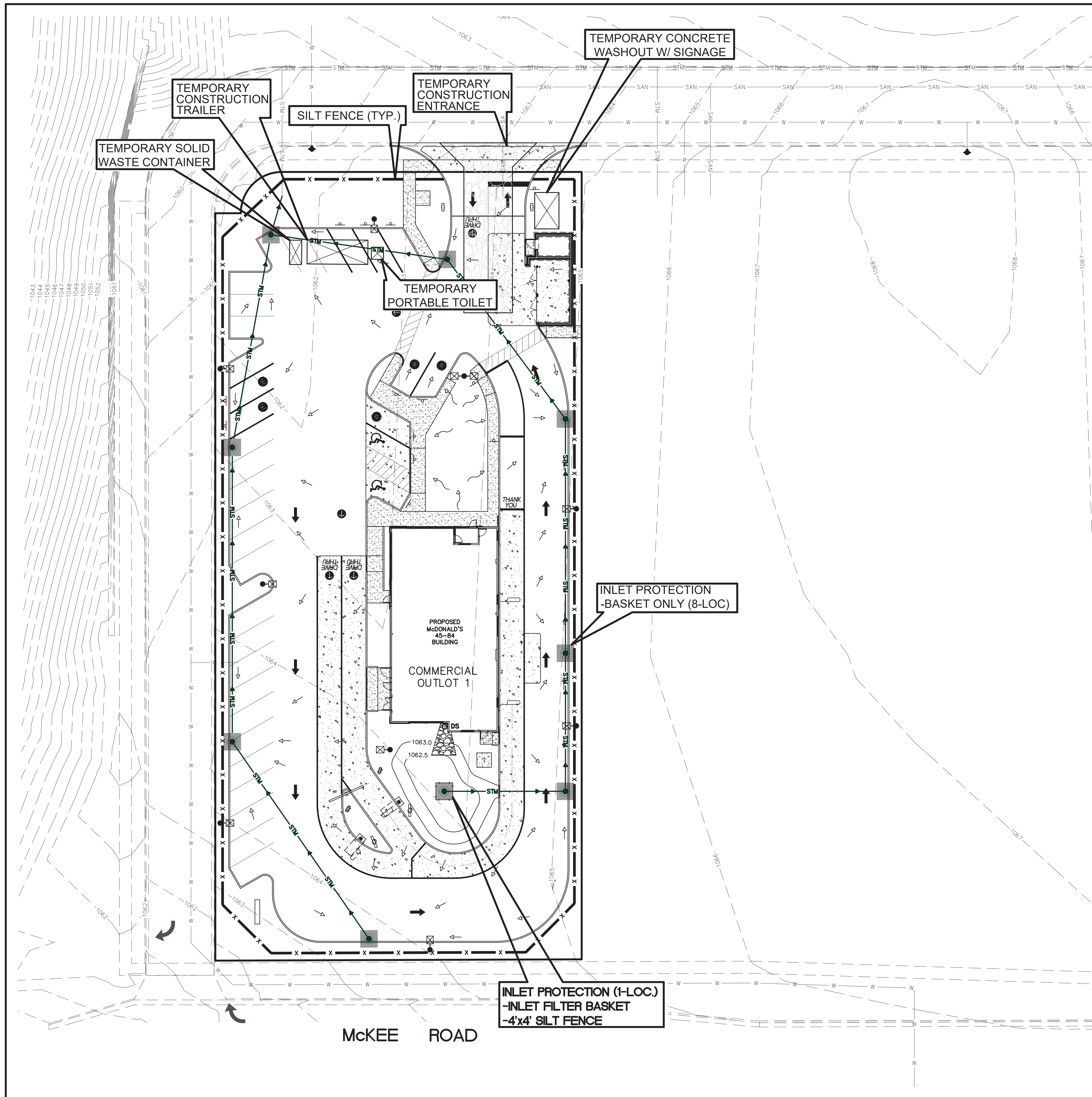
- PRIOR TO CONSTRUCTION OF ANY UTILITIES, CONTRACTOR IS TO VERIFY THAT THE PROPOSED UTILITIES SHOWN ON THIS PLAN THAT ENTER THE PROPOSED BUILDING(S) CORRESPOND WITH THE UTILITIES ON THE PLUMBING PLANS AS THEY EXIT THE BUILDING(S). CONTRACTOR TO REPORT IN WRITING ANY DISCREPANCIES IN SIZE, LOCATION, OR INVERT ELEVATION TO THE DESIGN ENGINEER IMMEDIATELY FOR RESOLUTION OF THE CONFLICT IN WRITING.
- GENERAL CONTRACTOR TO COORDINATE THE INSTALLATION AND PERMITTING OF THE PUBLIC UTILITIES, SUCH AS GAS, ELECTRIC, TELEPHONE, CABLE AND FIBER OPTICS, WITH THE PUBLIC UTILITY COMPANIES AND ARCHITECT PRIOR TO CONSTRUCTION. THE INSTALLATION OF THE PUBLIC UTILITIES AND NECESSARY SLEEVING TO BE INCLUDED AS PART OF GENERAL CONTRACTOR'S SCOPE OF WORK FOR THIS PROJECT.

UTILITY CROSSINGS

CO1	BOTTOM OF PROPOSED 12" STORM SEWER = 1058.22'	TOP OF PROPOSED 2" WATER SERVICE = 1056.50'	> 1.73'
CO2	BOTTOM OF PROPOSED 12" STORM SEWER = 1057.74'	TOP OF PROPOSED 6" SANITARY SERVICE = 1056.46'	> 1.28'
CO3	BOTTOM OF PROPOSED 12" STORM SEWER = 1057.57'	TOP OF PROPOSED 3/4" WATER SERVICE = 1056.00'	> 1.57'
CO4	BOTTOM OF PROPOSED 3/4" WATER SERVICE = 1057.55'	TOP OF PROPOSED 6" SANITARY SERVICE = 1055.80'	> 1.75'

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SCALE: 1" = 20'	
UTILITY PLAN	
C-5	
LC #48-1082	





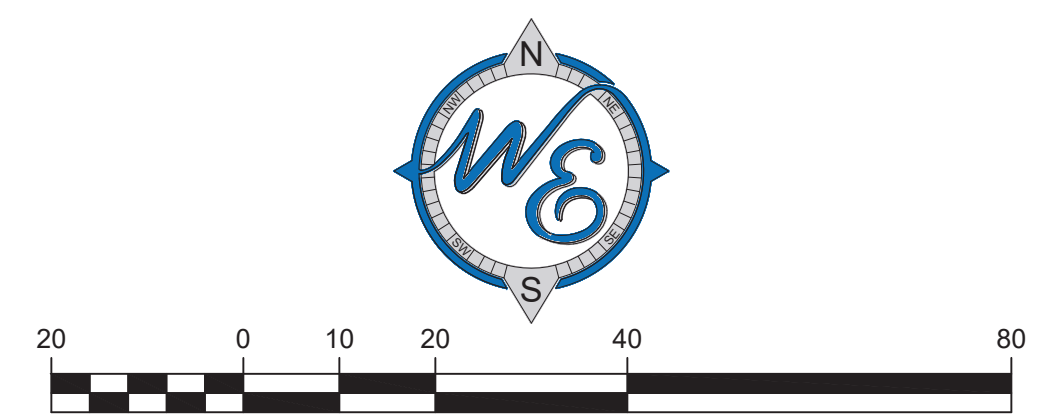
LEGEND

- SILT FENCE
- INLET FILTER BASKET
- INLET PROTECTION

GENERAL NOTES:

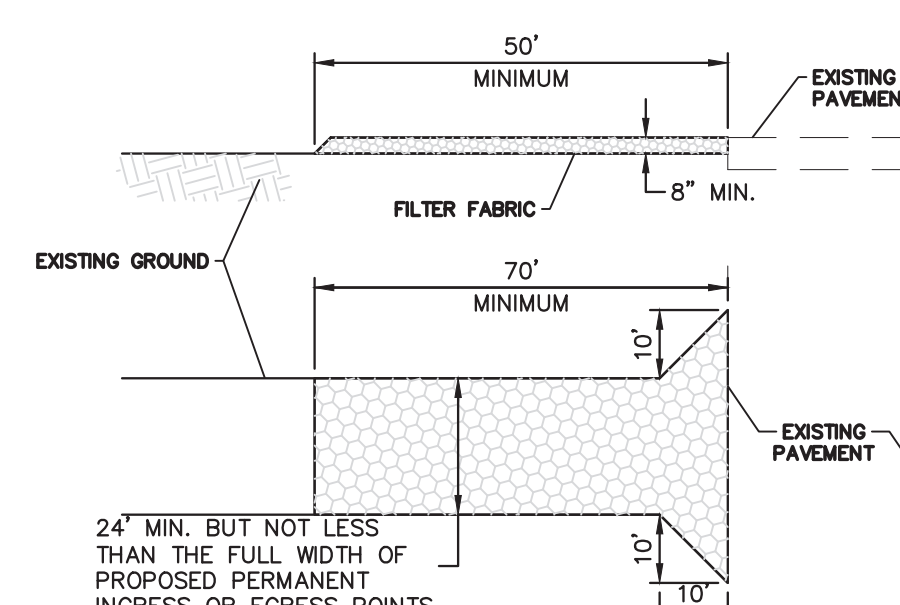
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PHASE II SOIL EROSION CONTROL PLAN C-7 LC #48-1082		PHASE II SOIL EROSION CONTROL PLAN



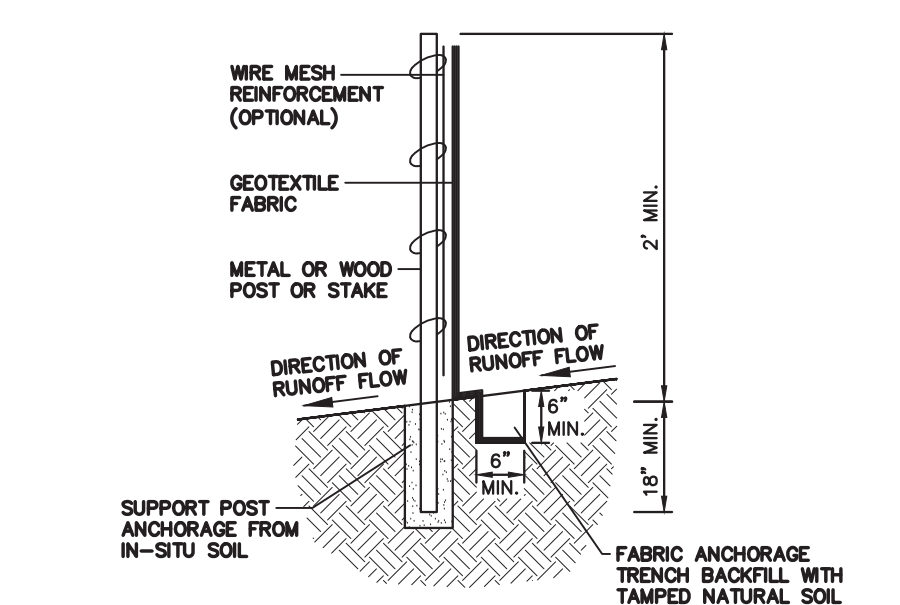
EROSION CONTROL

- CONTRACTOR IS TO FOLLOW THE REQUIREMENTS OF THE "CHAPTER NR 216 WISCONSIN ADMINISTRATIVE CODE" CURRENT EDITION AND THE REQUIREMENTS OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES).
- SOIL EROSION CONTROL SYSTEMS SHALL BE CONSTRUCTED AS SHOWN ON THE SOIL EROSION CONTROL PLANS AND/OR AS SPECIFIED BY THE DESIGN ENGINEER, VILLAGE ENGINEER, APPOINTED SWPPP INSPECTOR, OR MUNICIPAL INSPECTOR.
- PERIMETER EROSION BARRIER SHALL BE PLACED IN A MANNER THAT WILL INTERCEPT WATER BORNE SILT AND PREVENT IT FROM LEAVING THE AREA OF CONSTRUCTION. ALL SILT FENCES SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE WITH THE ENDS EXTENDING UPSLOPE. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 5 FEET. WHEN WIRE OR OTHER FORM OF APPROVED BACKING IS USED THE MAXIMUM SPACING MAY BE INCREASED TO 8 FEET. SPACING MAY NEED TO BE ADJUSTED SO THAT POSTS ARE LOCATED IN LOW AREAS WHERE WATER MAY POND. THE FILTER FABRIC AND WIRE SUPPORT, IF USED, MUST BE SECURELY FASTENED TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST ONE INCH LONG OR TIE WIRES (10 GAGE MINIMUM). THE FABRIC SHALL NOT BE STAPLED OR WIRED TO THE WIRE SUPPORT OR TO EXISTING TREES. GEOTEXTILE FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 (GEOTEXTILE) TABLE 1 OR 2, CLASS 1 IN THE ILLINOIS URBAN MANUAL, CURRENT EDITION. THE FABRIC SHALL HAVE AN AOS OF AT LEAST 30 FOR NONWOVEN AND 50 FOR WOVEN MATERIAL.
- INLET FILTERS SHALL BE CONSTRUCTED OF A REPLACEABLE REINFORCED FILTER BAG SUSPENDED FROM A RETAINER RING OR FRAME. INLET FILTER SYSTEMS SHALL BE THE CATCH-ALL WITH OVERFLOW, AS FURNISHED BY MARATHON MATERIALS INC., OR PRE-APPROVED EQUAL. CARE SHOULD BE TAKEN WHEN MAINTAINING OR REMOVING THIS FILTER FABRIC BAG TO NOT ALLOW THE PREVIOUSLY TRAPPED DEBRIS TO ENTER THE STORM SEWER SYSTEM.
- THE BED FOR RIP RAP SHALL BE TRIMMED AND SHAPED TO ALLOW THE FINISHED SURFACE TO CONFORM TO THE LINES SPECIFIED. AT THE TOE OF THE SLOPE, THE RIP RAP SHALL COMMENCE WITH A CONTINUATION OF THE SLOPE AFTER EXCAVATION TO ACCOMMODATE THE FULL DEPTH OF FABRIC, BEDDING LAYER, AND RIP RAP SPECIFIED.
- FILTER FABRIC IS REQUIRED UNDER STONE RIP RAP GRADATION 4, 5, 6 AND 7 FOR ALL USES, AND UNDER CONCRETE BLOCK, BROKEN CONCRETE, AND STONE OR BROKEN CONCRETE DUMPED RIP RAP WHEN USED FOR SOIL EROSION PROTECTION.
- STREETS ARE TO BE CLEARED OF DEBRIS, AND SWEEP CLEAN OF SILT AND MUD DAILY.
- SOIL EROSION CONTROL MEASURES ARE TO BE CHECKED BY QUALIFIED PERSONNEL AT LEAST ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER OR EQUIVALENT SNOWFALL AND REPAIRED IF NECESSARY.
- ALL EROSION CONTROL PROTECTION SHALL BE KEPT IN PLACE UNTIL THE GROUND HAS BEEN STABILIZED AND THE PAVEMENT HAS BEEN INSTALLED.
- ANY DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITIES HAVE STOPPED (PERMANENTLY OR TEMPORARILY) FOR 7 DAYS, MUST BE STABILIZED IN ACCORDANCE WITH NPDES REQUIREMENTS.
- BUILT UP SEDIMENT SHALL BE REMOVED FROM THE SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.
- SILT FENCES SHALL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, ETC., TO SEE IF FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND THAT THE FENCE POSTS ARE SECURELY IN THE GROUND.
- THE SEDIMENT BASIN, IF PRESENT, SHALL BE INSPECTED FOR DEPTH OF SEDIMENT AT LEAST ONCE A WEEK. BUILD UP SEDIMENT SHALL BE REMOVED WHEN IT REACHES 25 PERCENT OF THE DESIGN CAPACITY.
- CONTRACTOR TO COMPLY WITH FINAL STABILIZATION AND TERMINATION REQUIREMENTS OF THE SWPPP.
- AT A MINIMUM, SILT FENCE AND OTHER EROSION CONTROL MEASURES SHALL BE INSTALLED IN THE LOCATIONS SHOWN ON THE PHASE I AND PHASE II SOIL EROSION CONTROL PLANS. THEY SHALL ALSO BE INSTALLED ANYWHERE THAT THEY ARE NEEDED DURING CONSTRUCTION IN ORDER TO PREVENT EROSION AND SEDIMENT FROM BEING CARRIED DOWN STREAM. THIS IS THE GENERAL CONTRACTOR'S RESPONSIBILITY AND SHALL BE INSTALLED, RELOCATED, MAINTAINED, ETC. AS DIRECTED BY THE APPOINTED SWPPP INSPECTOR. EROSION CONTROL INSTALLATION AND MAINTENANCE IS TO BE A PART OF THE CONTRACT AND IS NOT AN EXTRA TO THE OWNER.



- NOTES:**
- STONE SIZE - 3" ROCK.
 - THICKNESS - NOT LESS THAN TWELVE (12) INCHES.
 - FILTER FABRIC - SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. GEOTEXTILE FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL CLASS II, III OR IV IN THE WISCONSIN URBAN MANUAL.
 - STONE PLACEMENT - THE STONES IN THE ENTRANCE SHALL BE PLACED ACCORDING TO WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARD 1057.
 - MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
 - WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES, WATERCOURSES, OR SURFACE WATERS INCLUDING WETLANDS.
 - PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE



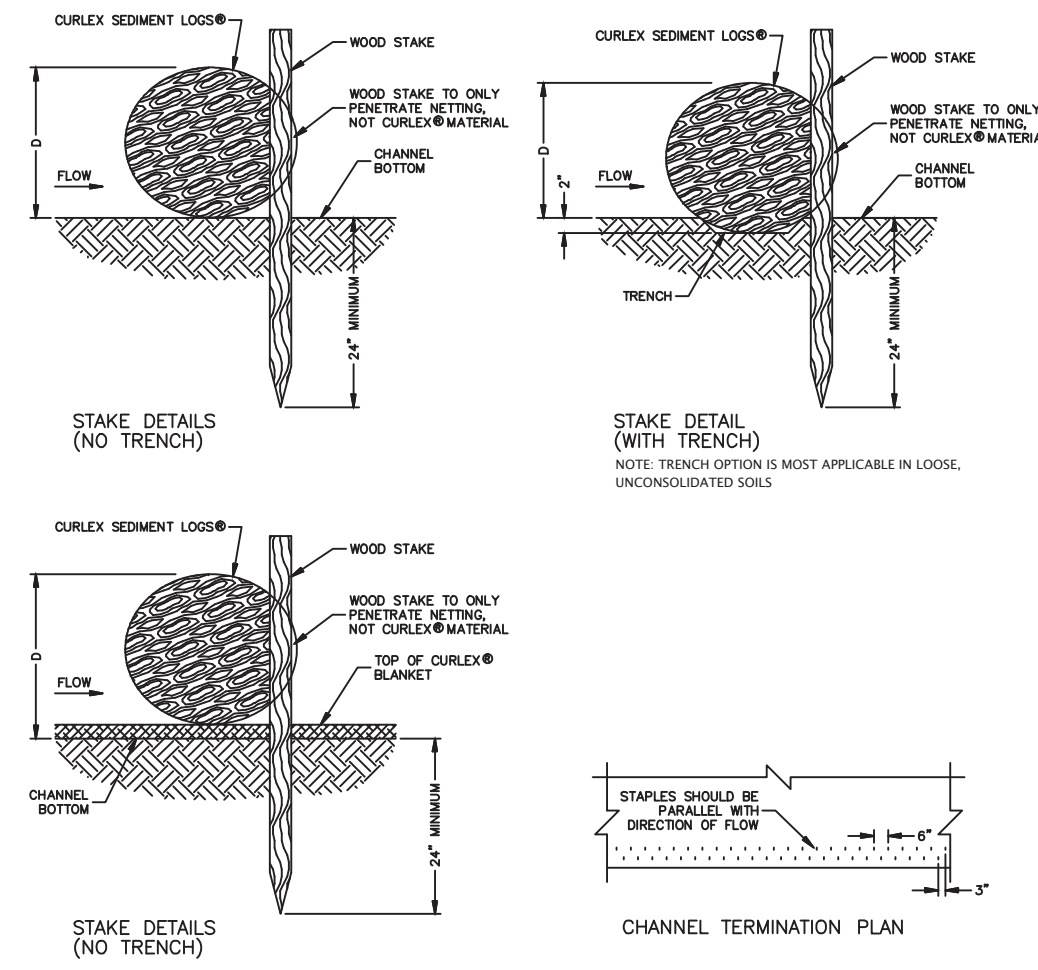
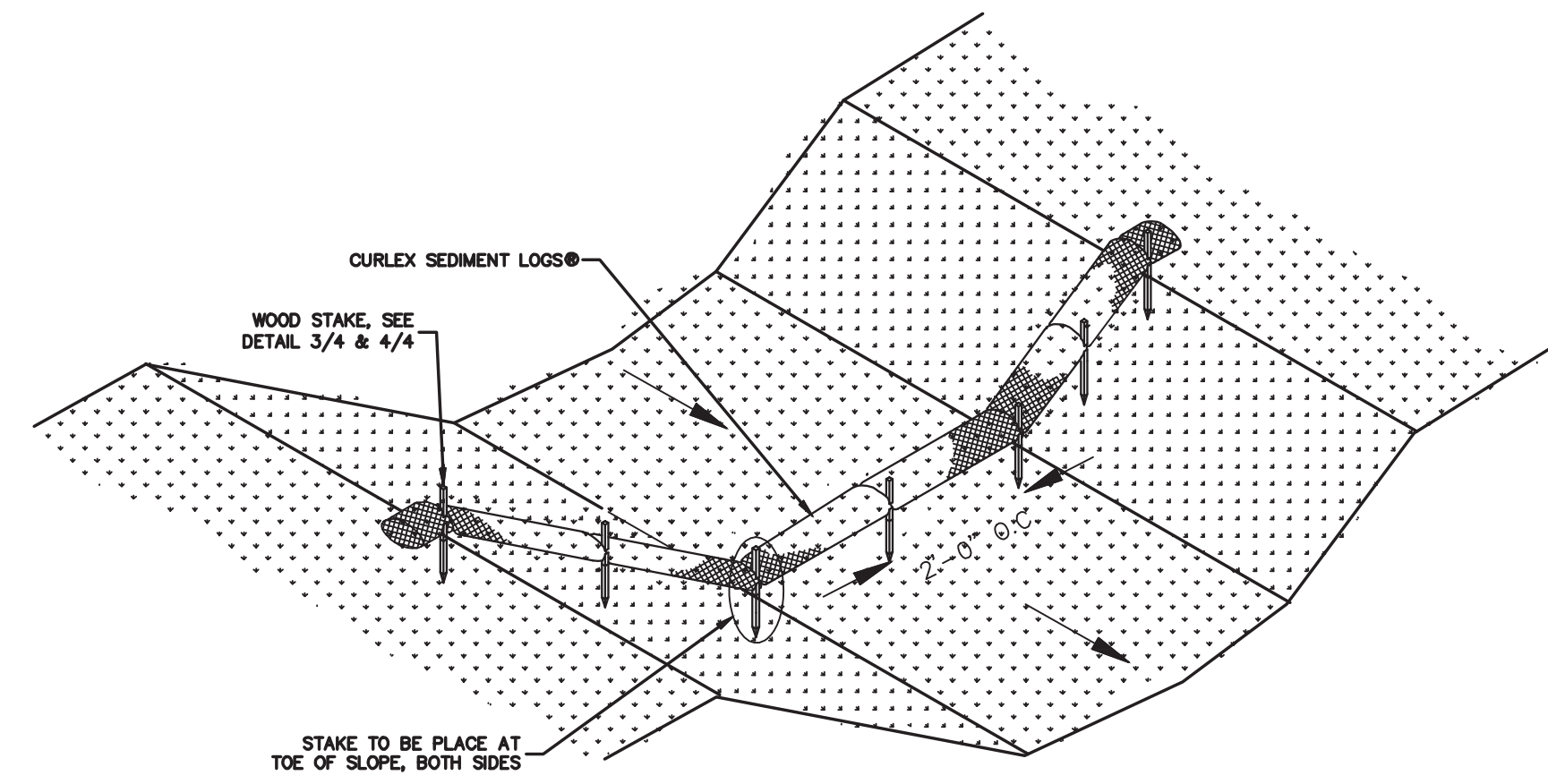
- NOTES:**
- TEMPORARY SEDIMENT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. THEY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
 - FENCE POSTS SHALL BE EITHER STANDARD STEEL POST OR WOOD POST WITH A MINIMUM CROSS-SECTIONAL AREA OF 3.0 SQ. IN.
 - STEEL POSTS SHALL BE STANDARD I AND U SECTIONS WEIGHING NOT LESS THAN 1.33 POUNDS PER LINEAR FOOT OR OTHER STEEL POSTS HAVING EQUIVALENT STRENGTH AND BENDING RESISTANCE.
 - WIRE FENCE SHALL BE A MINIMUM 12 GAGE WIRE WITH A 6 INCH MAXIMUM OPENING.
 - GEOTEXTILE FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 (GEOTEXTILE) TABLE 1 OR 2, CLASS 1 IN THE FABRIC SHALL HAVE AN AOS OF AT LEAST 30 FOR NONWOVEN AND 50 FOR WOVEN MATERIAL.
- MAINTENANCE NOTES:**
- FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL GREATER THAN 1/2" AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
 - SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
 - SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN THE DEPOSITS REACH APPROXIMATELY HALF THE HEIGHT OF THE BARRIER.
 - ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.
 - AT A MINIMUM, SILT FENCE AND OTHER EROSION CONTROL MEASURES SHALL BE INSTALLED IN THE LOCATIONS SHOWN ON THE PHASE I AND PHASE II SOIL EROSION CONTROL PLANS. THEY SHALL ALSO BE INSTALLED ANYWHERE THAT THEY ARE NEEDED DURING CONSTRUCTION IN ORDER TO PREVENT EROSION AND SEDIMENT FROM BEING CARRIED DOWN STREAM. THIS IS THE GENERAL CONTRACTOR'S RESPONSIBILITY AND SHALL BE INSTALLED, RELOCATED, MAINTAINED, ETC. AS DIRECTED BY THE APPOINTED SWPPP INSPECTOR. EROSION CONTROL INSTALLATION AND MAINTENANCE IS TO BE A PART OF THE CONTRACT AND IS NOT AN EXTRA TO THE OWNER.

SILT FENCE DETAIL

SOIL PROTECTION CHART

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC
PERMANENT SEEDING												
SODDING												
TEMPORARY SEEDING												
MULCHING												

- NOTES:**
- PERMANENT VEGETATION SHALL BE PLANTED ACCORDING TO THE APPROVED LANDSCAPE PLAN AND SHALL FOLLOW ILLINOIS URBAN MANUAL PRACTICE STANDARD 880 FOR PERMANENT SEEDING AND 925 FOR SODDING AT A MINIMUM.
 - TEMPORARY SEEDING SHALL BE APPLIED ACCORDING TO WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARD 1059. THIS PRACTICE APPLIES TO ALL CLEARED, UNVEGETATED, OR SPARSELY VEGETATED SOIL SURFACES WHERE VEGETATIVE COVER IS NEEDED FOR LESS THAN 1 YEAR.
 - WHERE THE PH OF THE SOIL IS BELOW 5.5, APPLY ONE AND ONE HALF TO TWO TONS PER ACRE OF FINELY GROUND AGRICULTURAL LIMESTONE. IF THE SEEDING PERIOD IS LESS THAN 30 DAYS, LIMING WILL NOT BE REQUIRED.
 - APPLY 500 POUNDS PER ACRE OF 10-10-10 FERTILIZER OR EQUIVALENT. INCORPORATE LIME AND FERTILIZER INTO THE TOP 2-4 INCHES OF SOIL. IF THE SEEDING PERIOD IS LESS THAN 30 DAYS, FERTILIZER WILL NOT BE REQUIRED.
 - PREPARE A TOPSOIL SEEDBED OF LOOSE SOIL TO A DEPTH OF 3 TO 4 INCHES. IF RECENT TILLAGE OR GRADING OPERATIONS HAVE RESULTED IN A LOOSE SURFACE, ADDITIONAL TILLAGE OR ROUGHENING MAY NOT BE REQUIRED EXCEPT TO BREAK UP LARGE CLODS. IF RAINFALL CAUSED THE SURFACE TO BECOME SEALED OR CRUSTED, LOOSEN IT JUST PRIOR TO SEEDING BY DISKING, RAKING, HARROWING, OR OTHER SUITABLE METHODS. GROVE OR FURROW SLOPES STEEPER THAN 3:1 ON THE CONTOUR BEFORE SEEDING.
 - SEED SHALL BE EVENLY APPLIED WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER OR HYDROSEEDER. SMALL GRAINS SHALL BE PLANTED NO MORE THAN ONE INCH DEEP. GRASSES SHALL BE PLANTED NO MORE THAN ONE HALF INCH DEEP.
 - COVER BROADCAST SEEDINGS BY CULTIPACKING, DRAGGING A HARROW, OR RAKING.
 - OATS SHALL BE APPLIED AT 90 LBS PER ACRE AND SHALL ONLY BE APPLIED EARLY SPRING TO JULY 1.
 - CEREAL RYE SHALL BE APPLIED AT 90 LBS PER ACRE AND SHALL ONLY BE APPLIED EARLY SPRING TO SEPTEMBER 30.
 - WHEAT SHALL BE APPLIED AT 90 LBS PER ACRE AND SHALL ONLY BE APPLIED EARLY SPRING TO SEPTEMBER 30.
 - PERENNIAL RYE GRASS SHALL BE APPLIED AT 25 LBS PER ACRE AND SHALL ONLY BE APPLIED EARLY SPRING TO SEPTEMBER 30.
 - TEMPORARY MULCHES ARE TO BE APPLIED TO:
 - AREAS THAT HAVE BEEN SEEDING TO PROVIDE A TEMPORARY OR PERMANENT SEEDING;
 - AREAS THAT CANNOT BE SEEDING BECAUSE OF THE SEASON OF THE YEAR AND NEED FOR SOIL SURFACE PROTECTION;
 - FOR MUD AND DUST CONTROL;
 - PROVIDE PROTECTION DURING PERIODS WHEN CONSTRUCTION OR SEEDING CANNOT BE DONE.



SEDIMENT LOG DITCH CHECK

NO SCALE

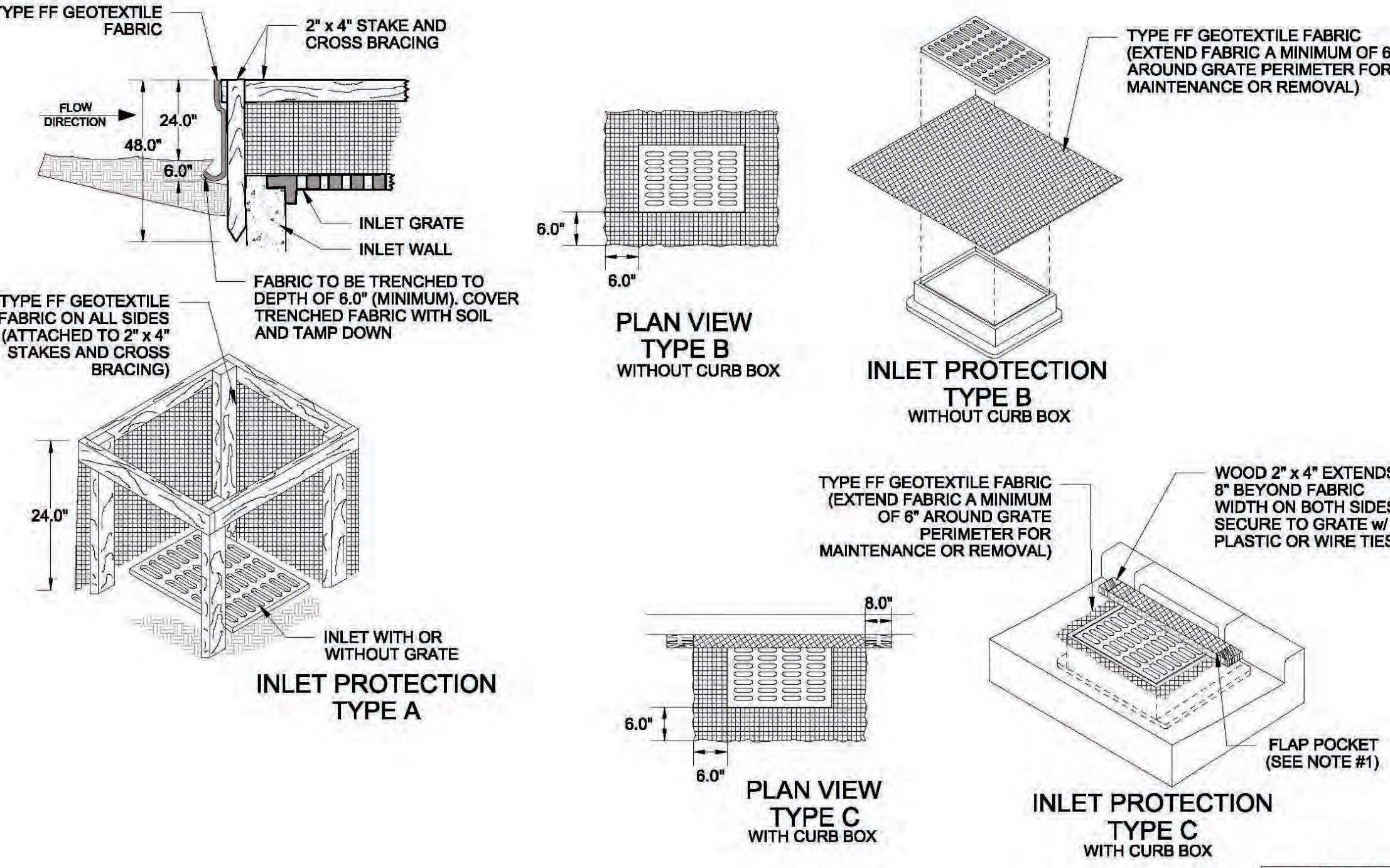
PHASE I CONSTRUCTION SEQUENCE:

- INSTALL STABILIZED CONSTRUCTION ENTRANCE.
- PREPARE TEMPORARY PARKING AND STORAGE AREA.
- CONSTRUCT THE SILT FENCES ON THE SITE.
- INSTALL INLET PROTECTION AROUND ALL EXISTING STORM SEWER STRUCTURES.
- CONSTRUCT THE SEDIMENTATION BASINS.
- CONSTRUCT DIVERSION DITCHES AND AGGREGATE DITCH CHECKS TO DIRECT WATER TO THE SEDIMENTATION BASINS.
- HOLD PRE-CONSTRUCTION MEETING TO DISCUSS THE STORM WATER POLLUTION PLAN WITH ENGINEER, ALL CONTRACTORS AND JURISDICTIONAL INSPECTION AGENCIES.
- DEMOLISH THE SITE.
- START CONSTRUCTION OF BUILDING PAD AND STRUCTURES.
- BEGIN MASS GRADING OPERATIONS FOR THE SITE.

PHASE II CONSTRUCTION SEQUENCE:

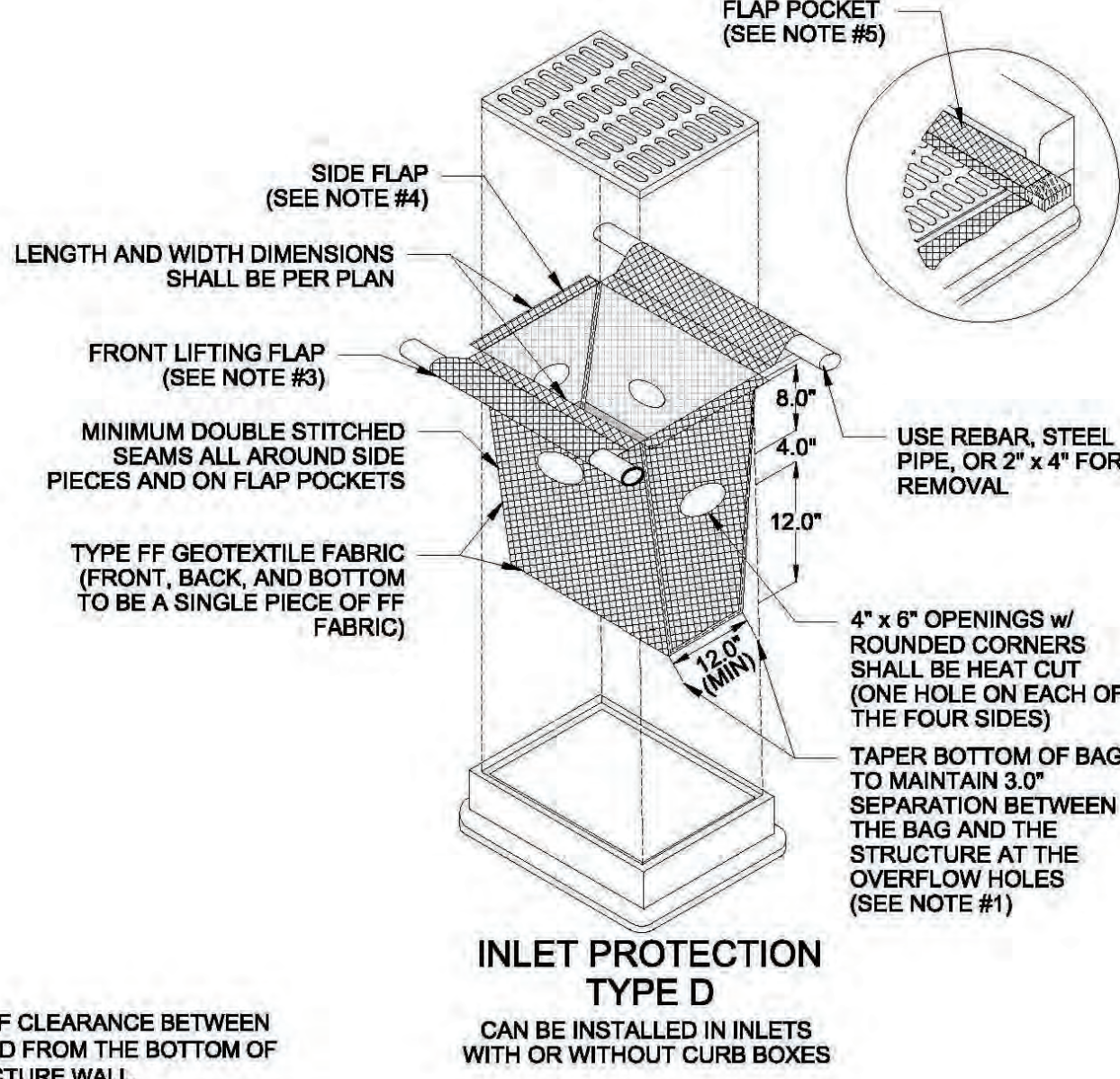
- TEMPORARILY SEED DENUDED AREAS.
- INSTALL UTILITIES, UNDERDRAINS, STORM SEWERS, CURBS AND GUTTERS.
- INSTALL RIP RAP AROUND OUTLET STRUCTURES.
- INSTALL INLET PROTECTION AROUND ALL STORM SEWER STRUCTURES.
- PREPARE SITE FOR PAVING.
- PAVE SITE.
- INSTALL INLET PROTECTION DEVICES.
- COMPLETE GRADING AND INSTALL PERMANENT SEEDING AND PLANTING.
- REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES (ONLY IF SITE IS STABILIZED).

FIGURE 1. INLET PROTECTION TYPES A, B AND C

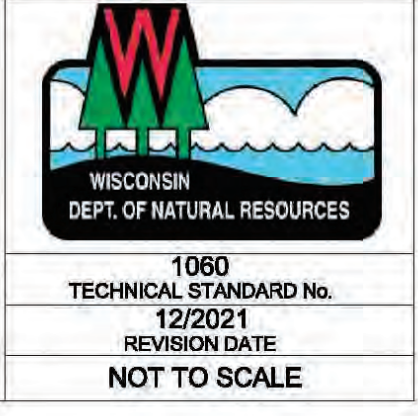


- NOTES:**
- FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2" x 4". THE REBAR, STEEL PIPE, OR WOOD SHALL BE INSTALLED IN THE REAR FLAP AND SHALL NOT BLOCK THE TOP HALF OF THE CURB FACE OPENING.
- MAINTENANCE NOTES:**
- WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN THE FABRIC DOES NOT FALL INTO THE STRUCTURE. MATERIAL THAT HAS FALLEN INTO THE INLET SHALL BE IMMEDIATELY REMOVED.

FIGURE 2. INLET PROTECTION TYPE D



- NOTES:**
- TAPER BOTTOM OF BAG TO MAINTAIN 3" OF CLEARANCE BETWEEN THE BAG AND THE STRUCTURE, MEASURED FROM THE BOTTOM OF THE OVERFLOW OPENINGS TO THE STRUCTURE WALL.
 - GEOTEXTILE FABRIC TYPE FF FOR FLAPS, TOP AND BOTTOM OF OUTSIDE OF FILTER BAG. FRONT, BACK, AND BOTTOM OF FILTER BAG BEING ONE PIECE.
 - FRONT LIFTING FLAP IS TO BE USED WHEN REMOVING AND MAINTAINING FILTER BAG.
 - SIDE FLAPS SHALL BE A MAXIMUM OF 2' LONG. FOLD THE FABRIC OVER AND REINFORCE WITH MULTIPLE STITCHES.
 - FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2" x 4". THE REBAR, STEEL PIPE, OR WOOD SHALL BE INSTALLED IN THE REAR FLAP AND SHALL NOT BLOCK THE TOP HALF OF THE CURB FACE OPENING.
- MAINTENANCE NOTES:**
- WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN THE FABRIC DOES NOT FALL INTO THE STRUCTURE. MATERIAL THAT HAS FALLEN INTO THE INLET SHALL BE IMMEDIATELY REMOVED.



DATE: _____

NO. _____

REVISIONS: _____

Prepared For: _____

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110 N. Carpenter St.
Chicago, IL 60607

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DATE: DECEMBER 3, 2024
SCALE: NONE

PROJECT NO.: 24-001

1060
TECHNICAL STANDARD No.
12/2021
REVISION DATE
NOT TO SCALE

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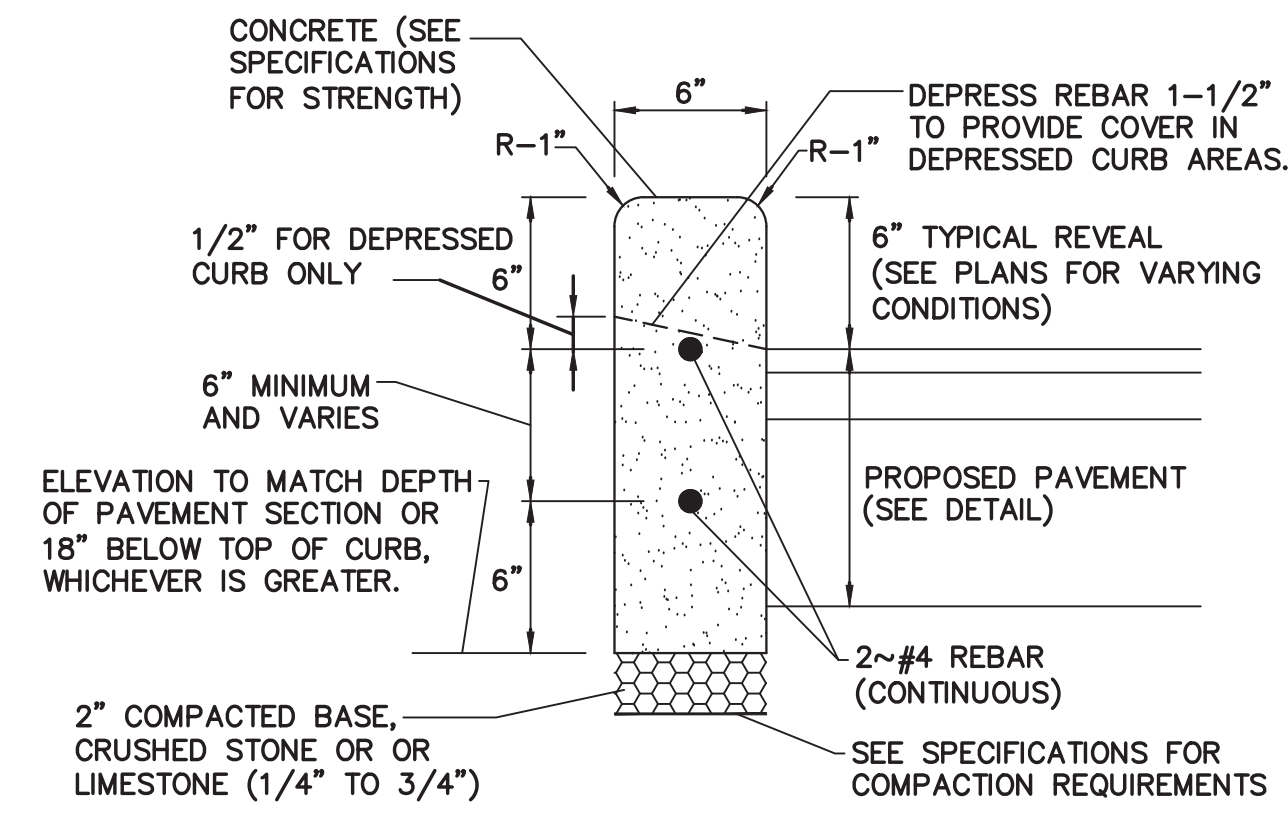
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12/2021
REVISION DATE
NOT TO SCALE

SOIL EROSION CONTROL DETAILS AND SPECS

C-8

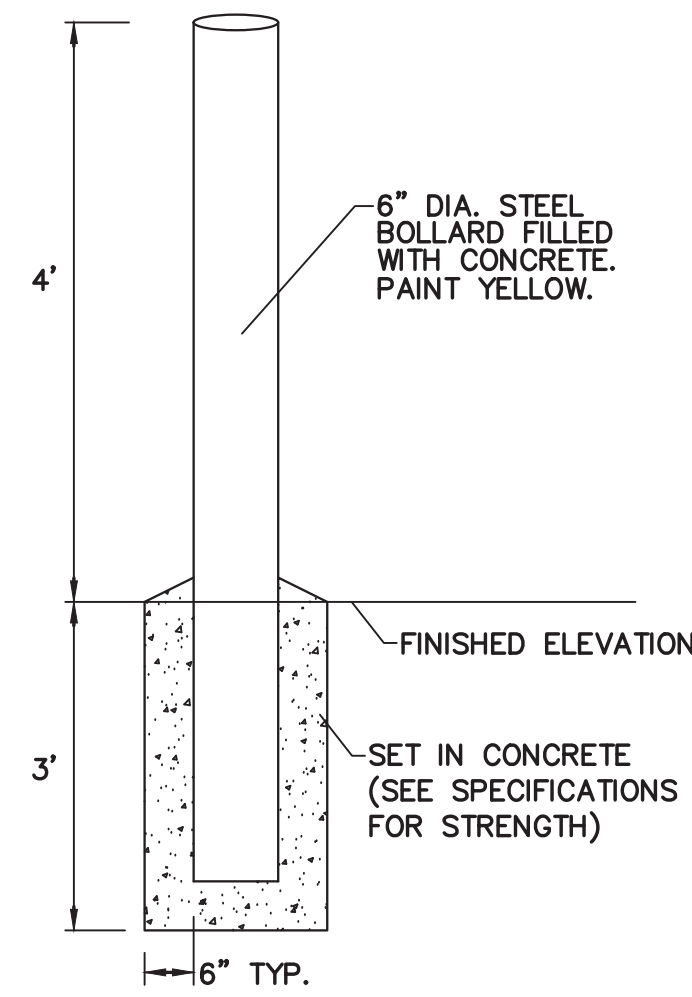
LC #48-1082

**SOIL EROSION CONTROL
DETAILS AND SPECS**

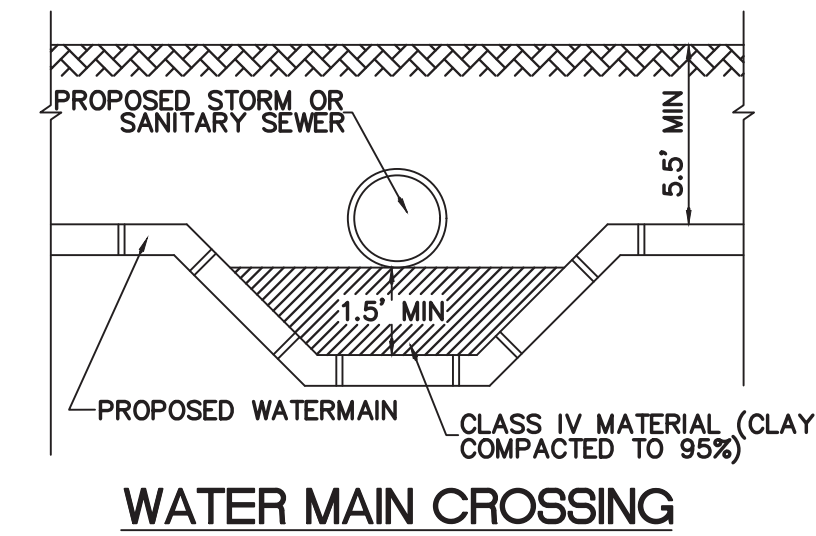


TYPE 'C' BARRIER CURB

1. PROVIDE 1/2" EXPANSION JOINTS EVERY 45' O.C.
2. PROVIDE HAND TOOLED CONTRACTION JOINTS EVERY 15' O.C.

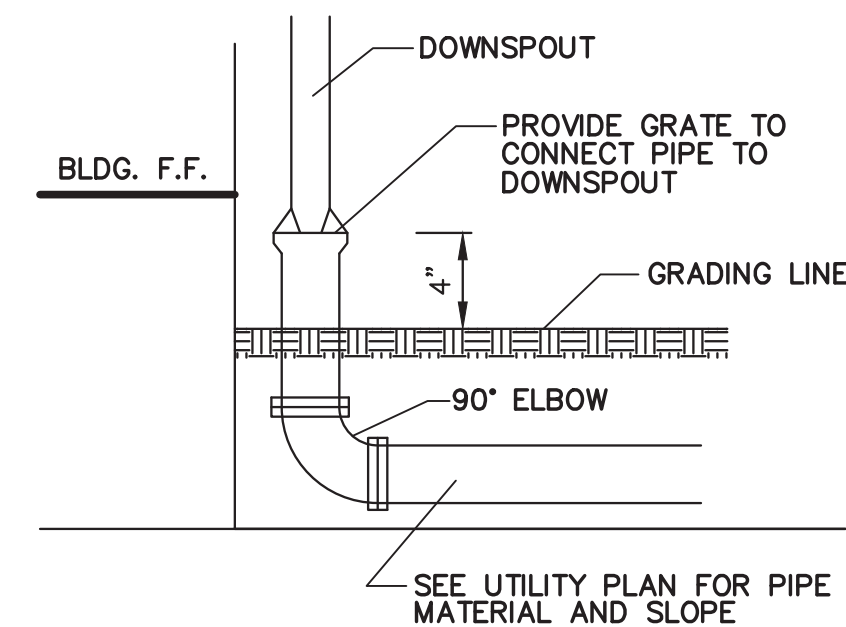


BOLLARD

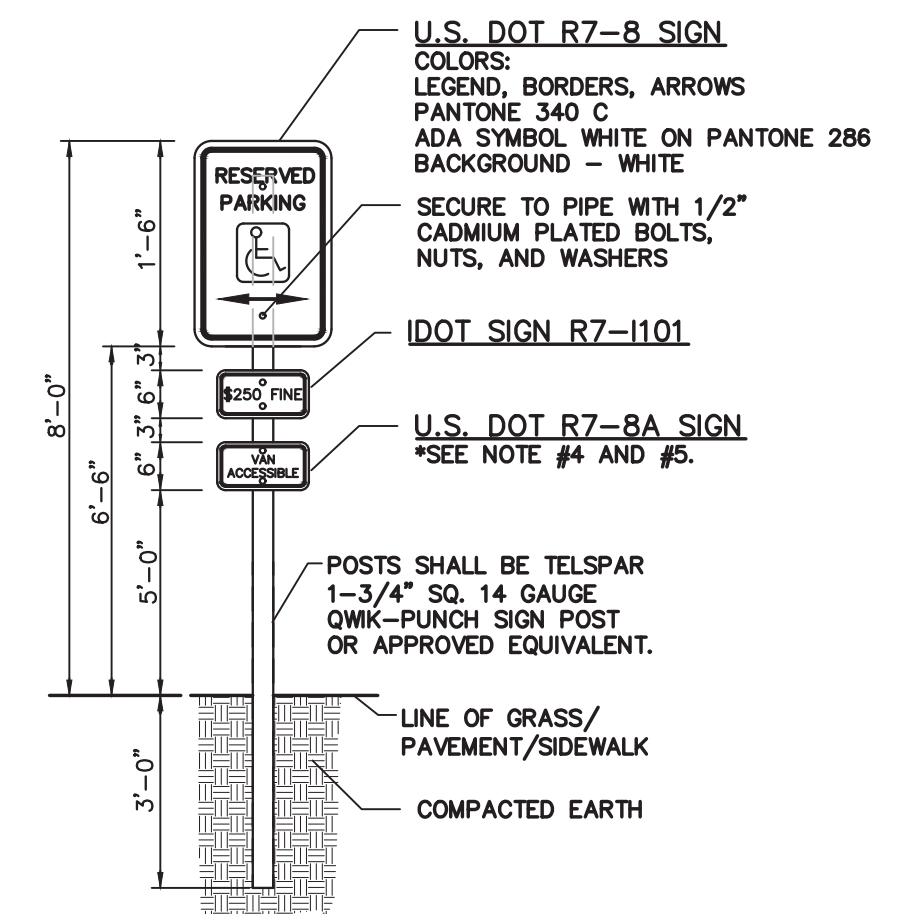


WATER MAIN CROSSING

- NOTE:
1. USE MIN. 21 L.F. OF WATERMAIN CLASS PIPES (MIN. 10' ON EACH SIDE OF THE CROSSING). SEE SPECIFICATIONS FOR PIPE AND JOINT SPECIFICATIONS.

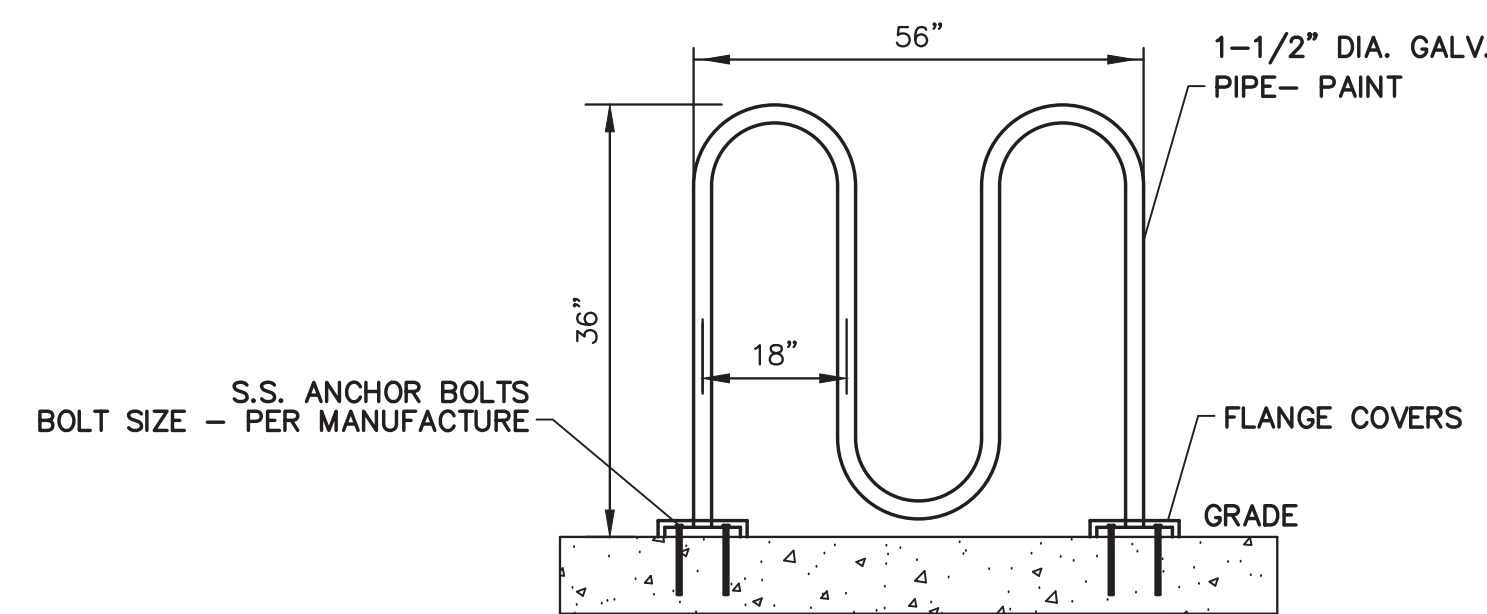


DOWNSPOUT CONNECTION DETAIL



1. WHERE A FINE IN EXCESS OF \$250 IS ESTABLISHED BY A MUNICIPALITY BY ORDINANCE IN ACCORDANCE WITH THE STATUTES, THE ACTUAL AMOUNT OF THE FINE SHOULD BE SHOWN. THIS PLATE MAY BE MOUNTED DIRECTLY BELOW THE R7-8 SIGN OR COMBINED WITH THAT SIGN ON A SINGLE 12 INCH BY 24 INCH PANEL.
3. ON THE RESERVED PARKING SIGN, THE ARROW SHOULD BE OMITTED WHERE THERE IS ONLY ONE SPACE. THE ARROW MAY ALSO BE MADE TO POINT IN ONLY ONE DIRECTION. THE ARROW MAY ALSO BE REPLACED BY "TIME" SUCH AS 9 AM-5 PM WHERE A PART TIME RESTRICTION EXISTS.
4. ONE IN EVERY SIX ACCESSIBLE SPACES, BUT NOT LESS THAN ONE, SHALL BE SERVED BY AN ACCESS AISLE 8 FEET WIDE MINIMUM AND SHALL BE DESIGNATED "VAN ACCESSIBLE".
5. THE LOWEST BOTTOM EDGE OF THE LOWEST REQUIRED SIGN SHALL BE MOUNTED AT 60" ABOVE FINISHED GRADE.
6. COLORS FOR BOTH IDOT SIGN R7-1101 AND USDOT R7-8A, LEGEND, BORDERS AND ARROWS TO BE GREEN, NON-REFLECTORIZED (PANTONE 340C) BACKGROUND-WHITE REFLECTORIZED.

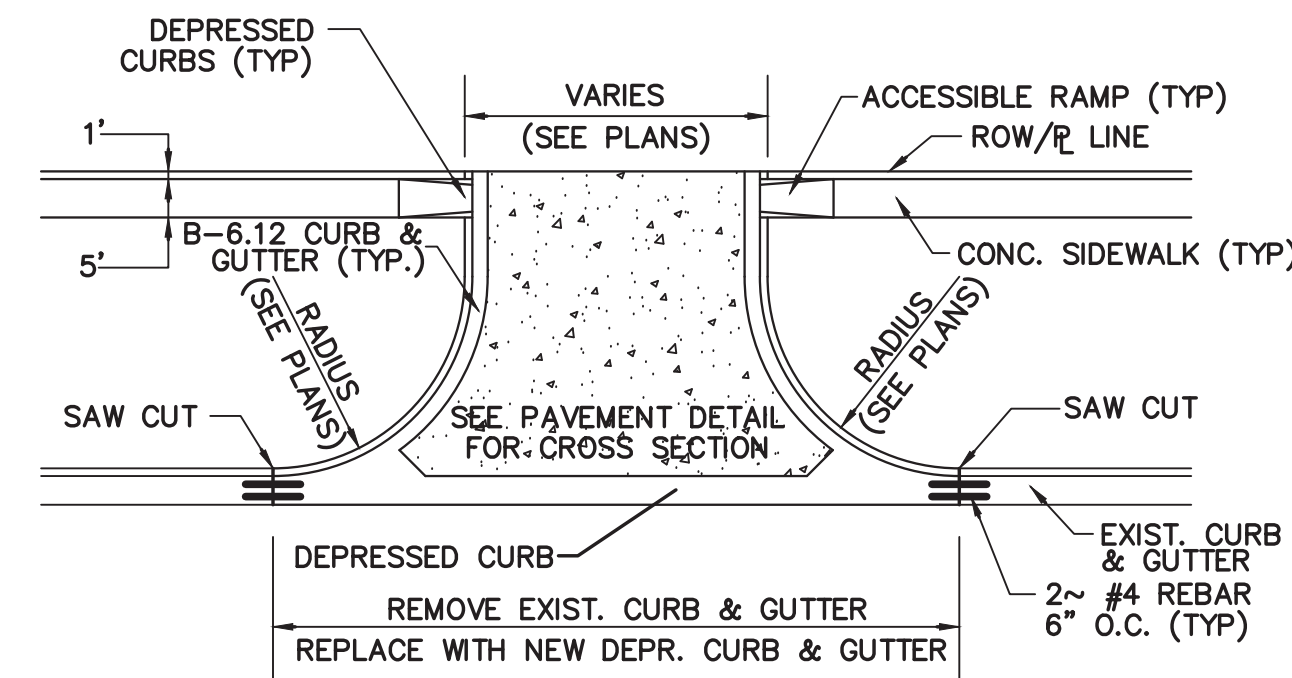
ACCESSIBLE PARKING SPACE SIGN DETAIL



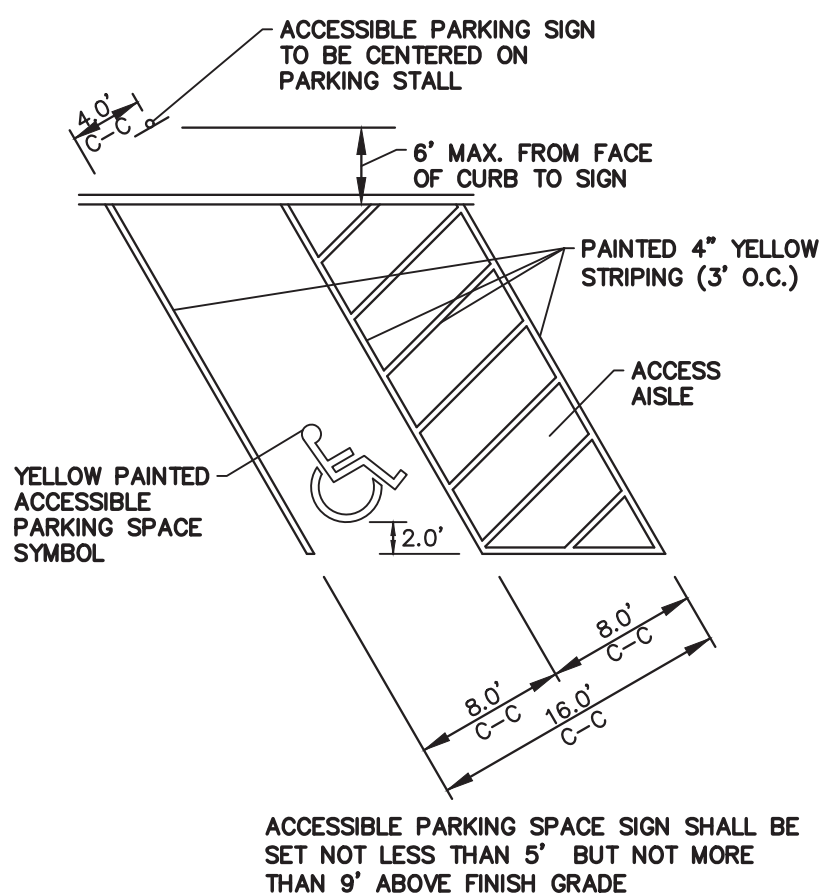
* AS REQUIRED BY CODE OR TO ACHIEVE ADEQUATE SOIL BEARING- SEE DWG. S-1.

1. SEE GEOMETRIC PLAN FOR LAYOUT AND PAVEMENT SECTIONS.
2. SEE GRADING PLAN FOR FINISH ELEVATIONS, ENSURE POSITIVE DRAINAGE.
3. CONTRACTOR TO VERIFY BOLT PATTERN AND INSTALL PER MANUFACTURER'S SPECIFICATIONS.

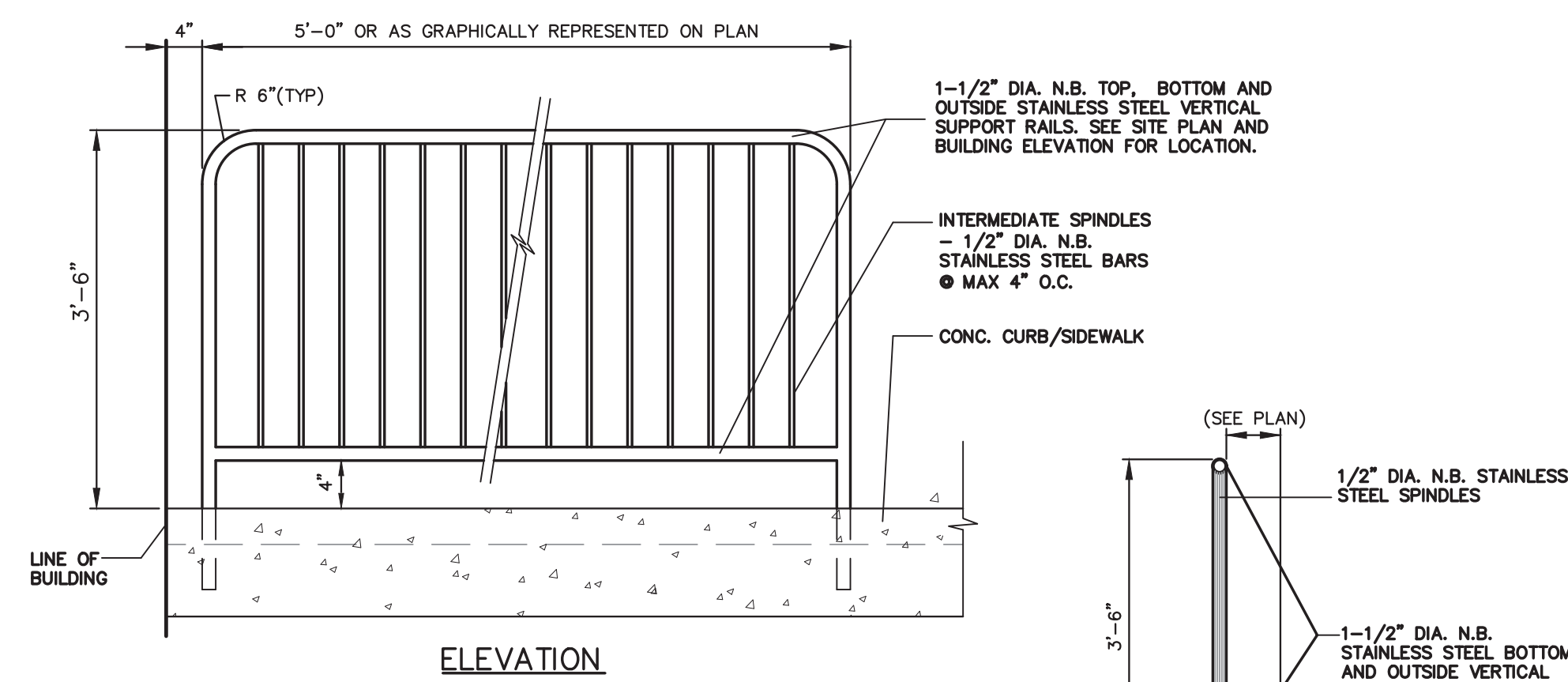
BICYCLE RIBBON RACK DETAIL



CONCRETE DRIVEWAY APRON

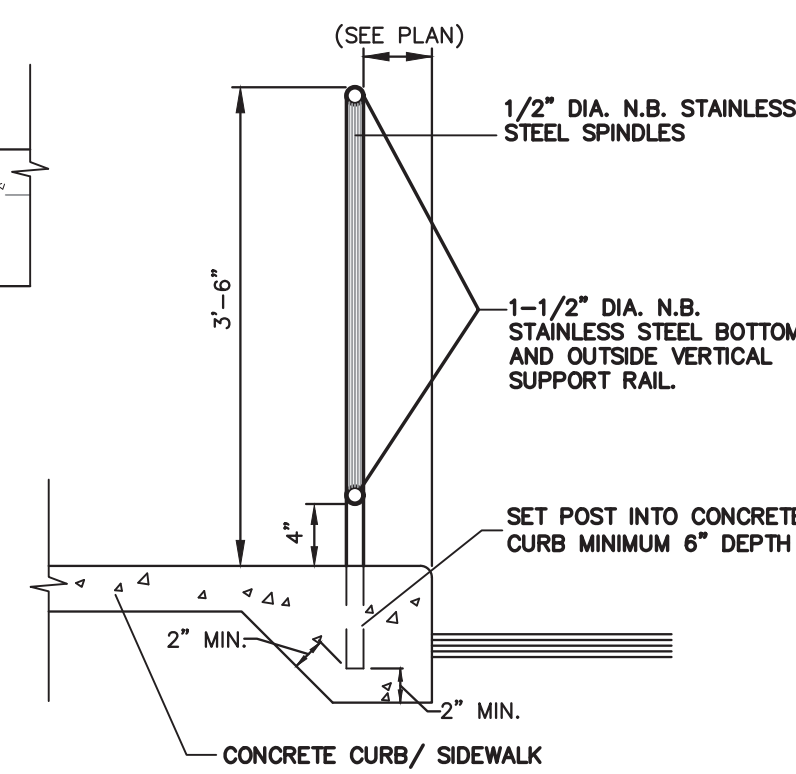


ACCESSIBLE PARKING SPACE DETAIL

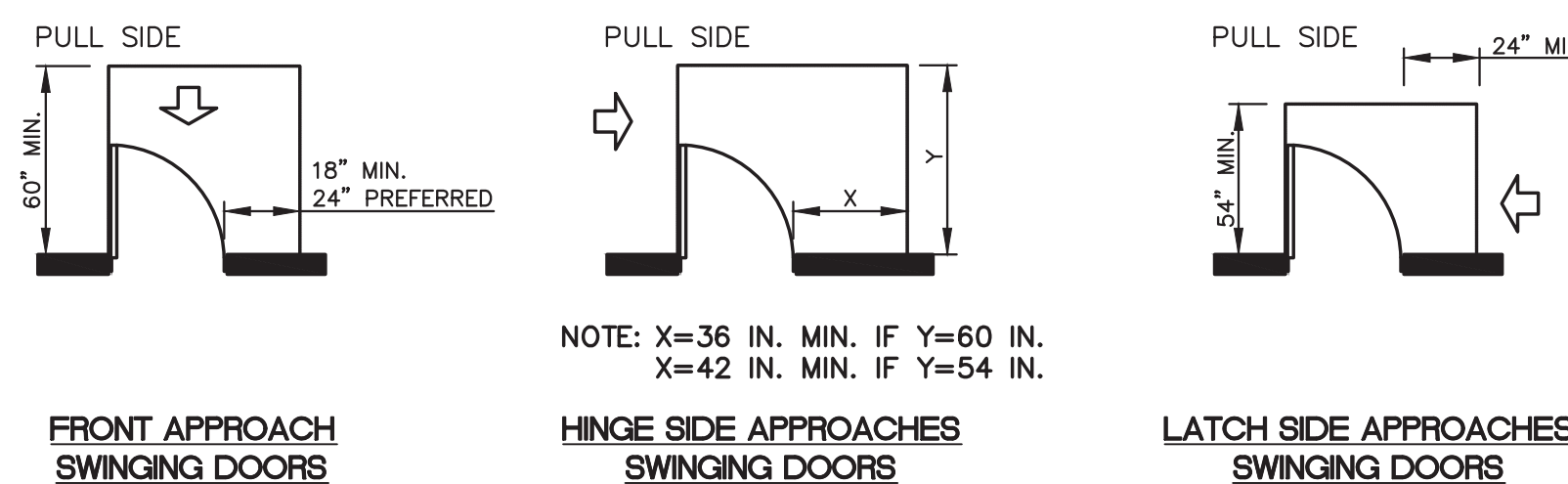


GUARD RAIL DETAIL

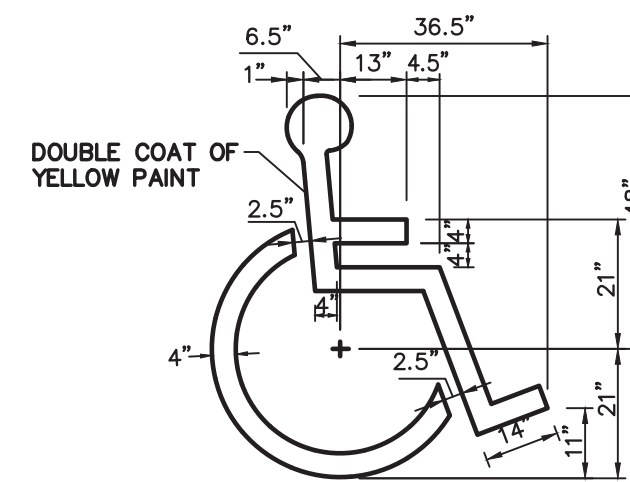
1. LOCATION SUBJECT TO ADA MANEUVERING CLEARANCE REQUIREMENTS.
2. THE GUARD RAIL IS INTENDED TO PROVIDE A PHYSICAL BARRIER WHERE INDICATED ON THE PLANS AND IS NOT INTENDED FOR USE AS A HANDRAIL.
3. POSTS TO BE PROVIDED EVERY 5'.
4. GUARDRAILS SHALL BE DESIGNED IN ORDER TO WITHSTAND A LINEAR LOAD OF 50 POUNDS PER LINEAR FOOT AS WELL AS TO RESIST A CONCENTRATED LOAD OF 200 POUNDS IN ACCORDANCE WITH SECTION 4.5.1 OF LATEST EDITION OF ASCE 7.
5. ALTERNATE GUARD RAIL MATERIALS AND COLORS TO BE APPROVED BY MCDONALD'S CONSTRUCTION MANAGER.
6. CONTRACTOR TO PROVIDE SHOP DRAWINGS TO MCDONALD'S CONSTRUCTION MANAGER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION OF GUARDRAILS.



SECTION



TYPICAL ACCESSIBLE LANDING AREA DETAIL



ACCESSIBLE PARKING SPACE SYMBOL

1. SYMBOL IS CENTERED ON WIDTH OF PARKING STALL AND 2' FROM THE END OF THE STALL.

DATE	
REVISIONS	
NO.	

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Watermark Engineering Resources

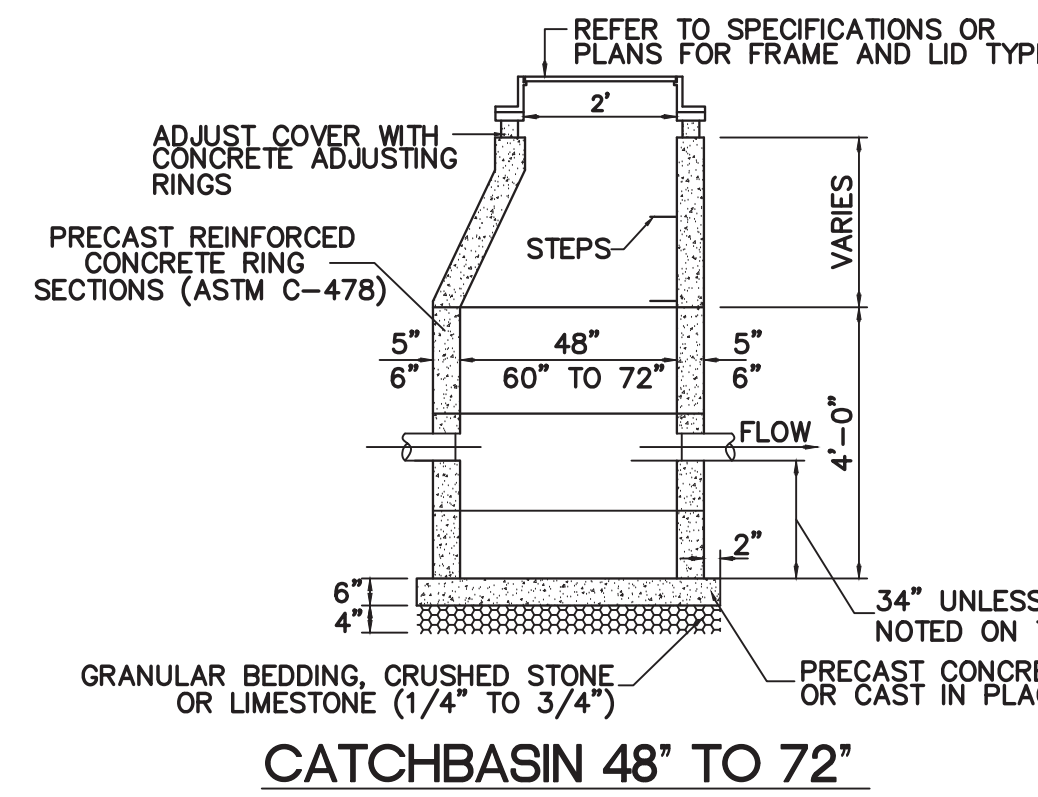
CHECKED BY: J. MILLER
DESIGN BY: J. VOLANTI
DRAWN BY: J. VOLANTI
DATE: DECEMBER 5, 2024
SCALE: NONE
PROJECT NO.: 24-001

PROJECT DETAILS

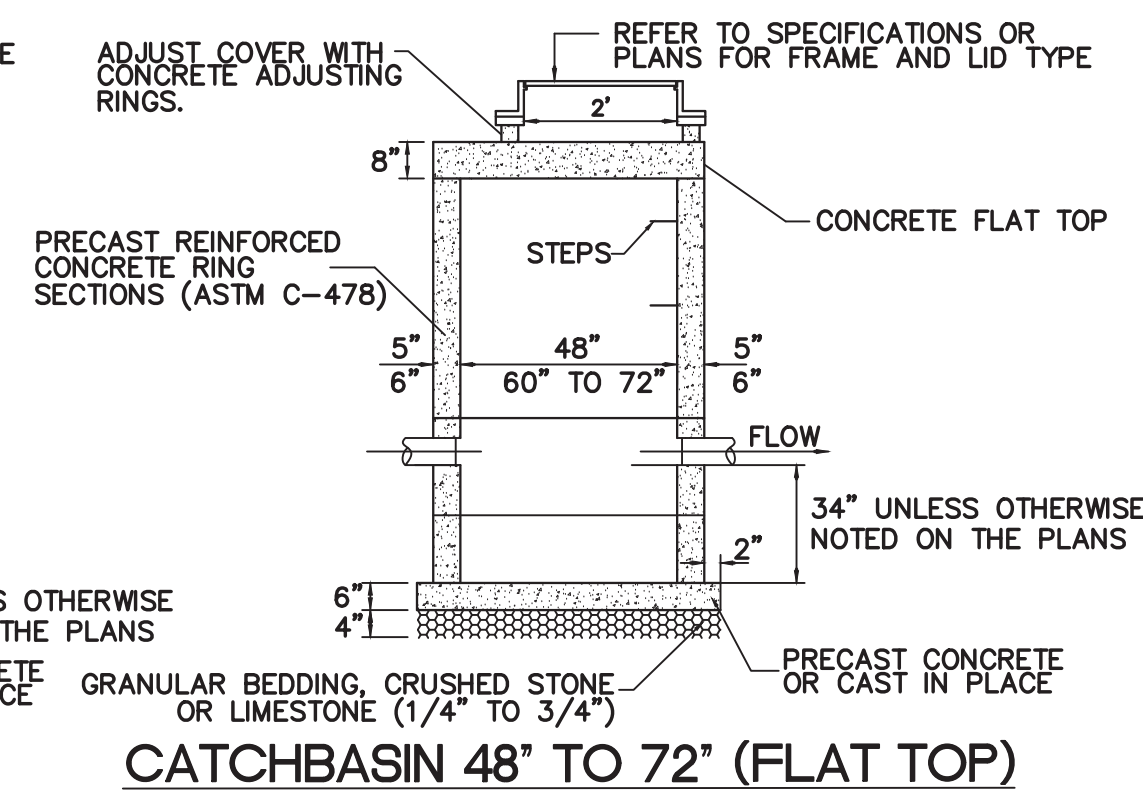
C-9

LC #48-1082

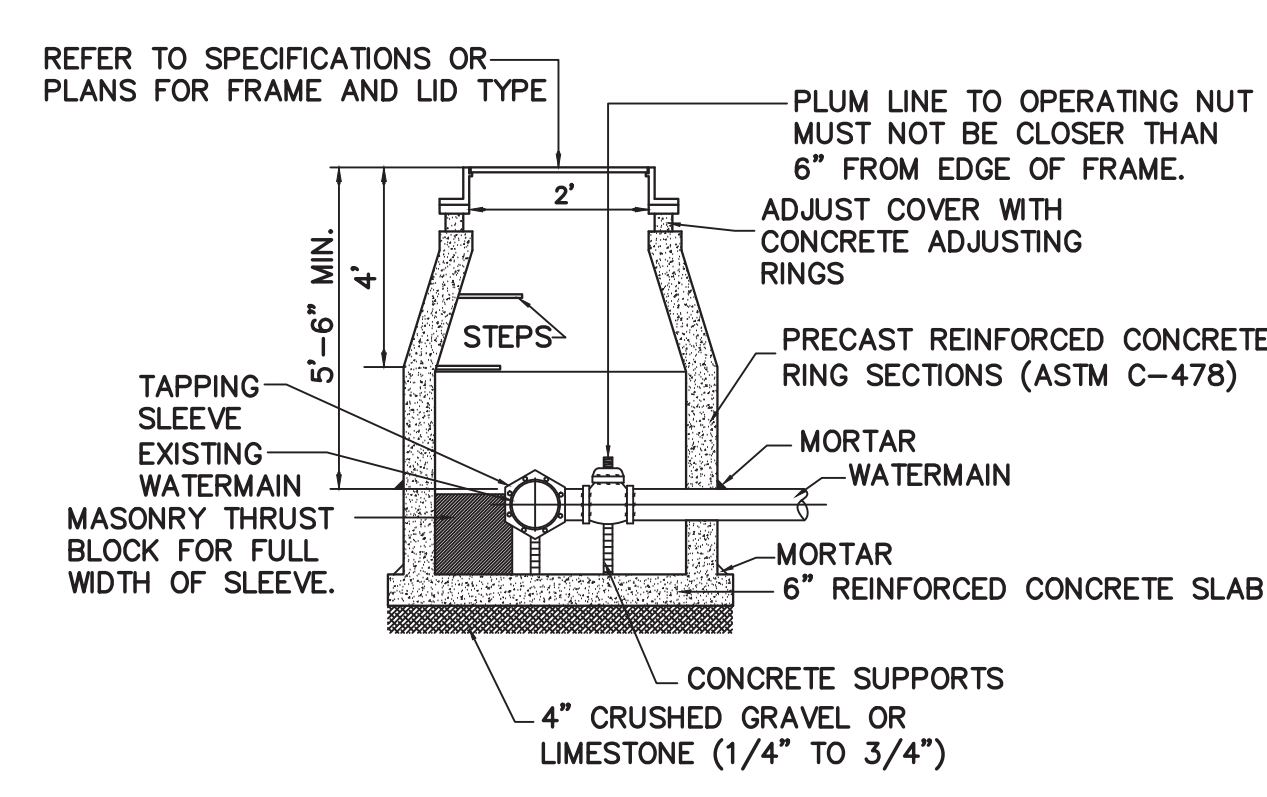
PROJECT DETAILS



CATCHBASIN 48" TO 72"

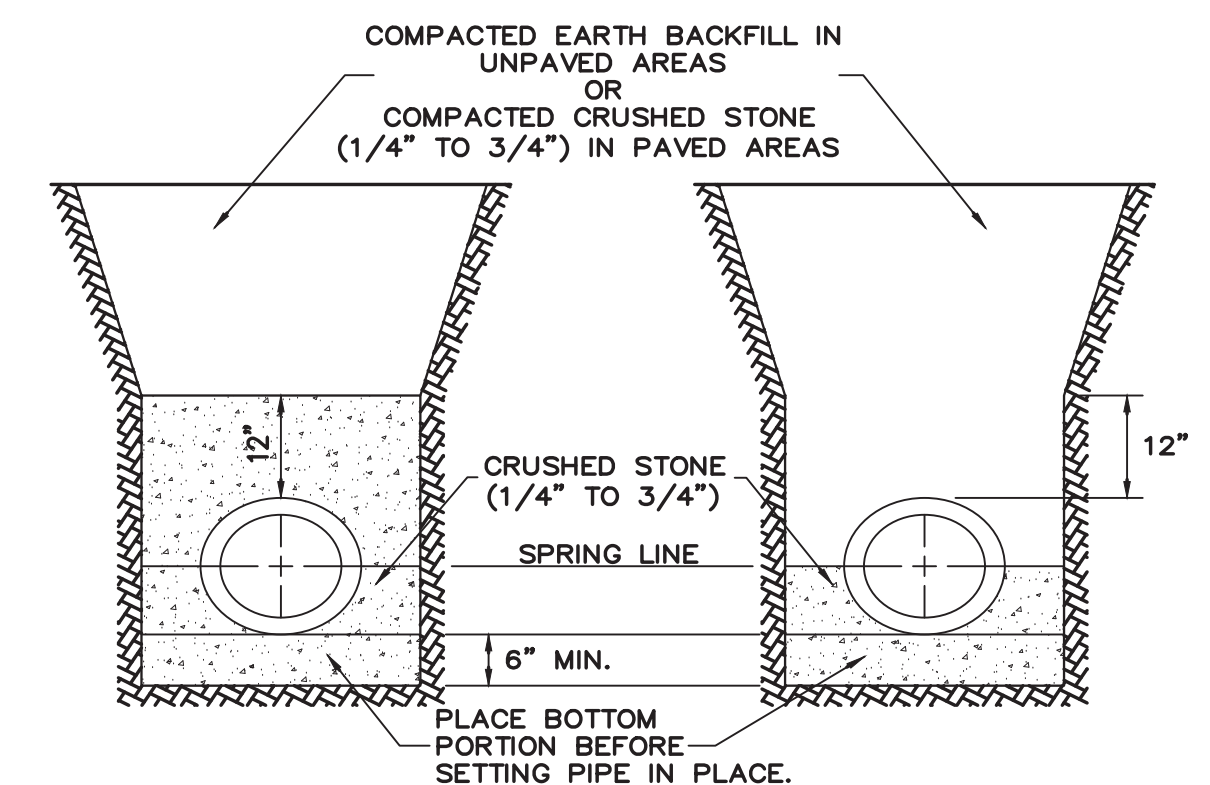


CATCHBASIN 48" TO 72" (FLAT TOP)



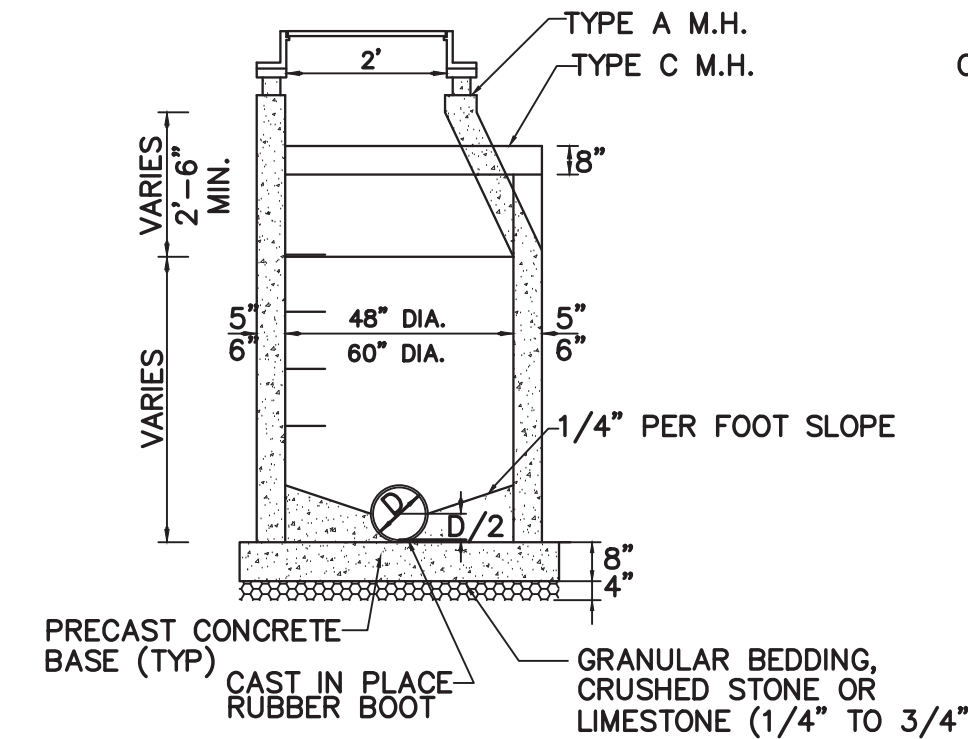
PRESSURE CONNECTION

- NOTES:
1. 60" MINIMUM DIAMETER FOR ALL PRESSURE CONNECTIONS.
 2. PIPE OPENINGS TO BE CAST INTO WALL.



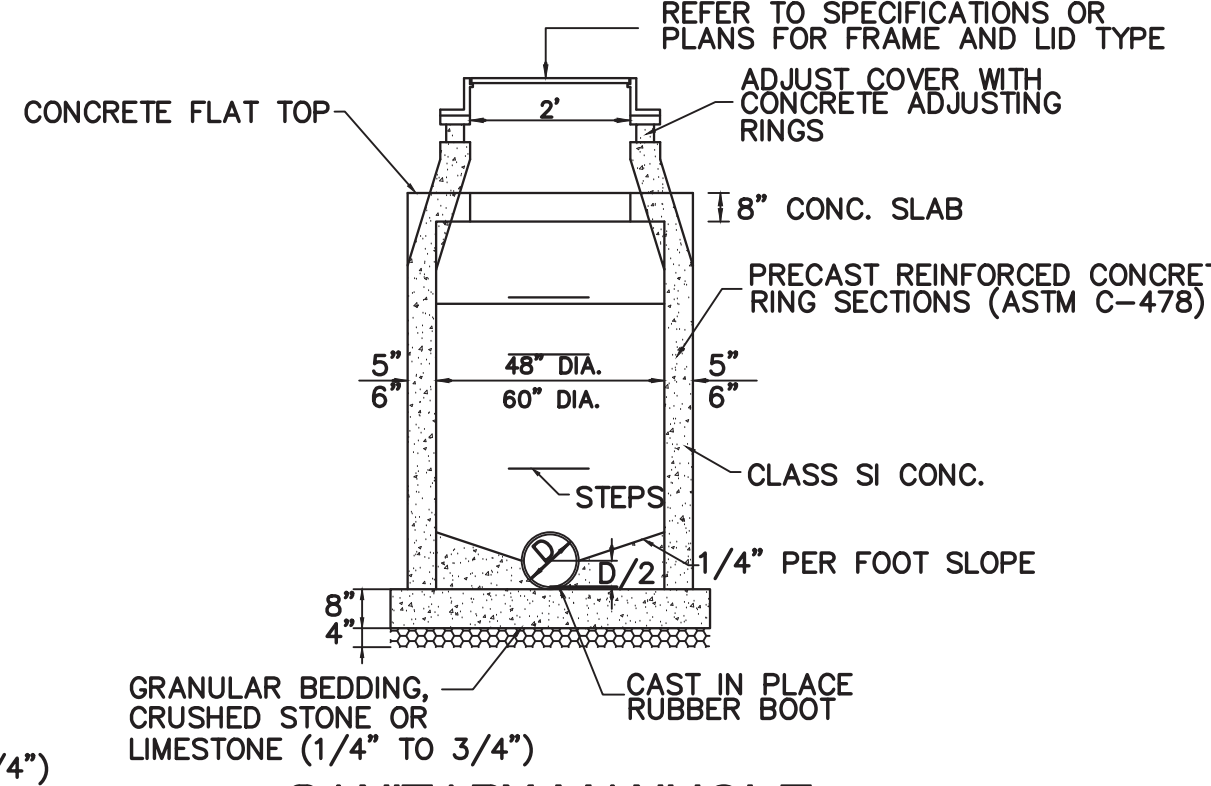
- CLASS 1A (FLEXIBLE PIPE, ASTM 2321-89) (PVC, HDPE, CMP)
- TYPE B (RIGID PIPE, ASTM C12) (RCP, DIP, CIP, VCP)
- NOTES:
1. GRANULAR BEDDING IS NOT REQUIRED FOR WATER MAIN; HOWEVER, SOIL BASE BEDDING MUST BE COMPACTED AND STABLE MATERIAL.
 2. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH A FOUNDATION OF CLASS I OR II MATERIAL AS DEFINED IN ASTM D2321, "STANDARD PRACTICE FOR INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS," LATEST EDITION.
 3. MAXIMUM WIDTH OF TRENCH AT TOP OF PIPE FOR ALL CLASSES IS TO BE 4/3 INTERNAL DIAMETER PLUS 10" UNLESS SHEETING IS USED.
 4. MINIMUM COVER FOR PVC, HDPE, AND CMP IS 12" FROM THE TOP OF THE PIPE TO THE BOTTOM OF ASPHALT OR TO TOP OF CONCRETE PAVEMENT, OR TO FINISHED GRADE ELEVATION IN LANDSCAPED AREAS.
 5. TRENCH BACKFILL MUST BE WELL SPADED ON BOTH SIDES OF PIPE.
 6. TRENCH BACKFILL AND BEDDING MATERIALS SHALL BE COMPACTED TO A MINIMUM OF 95% OF STANDARD LABORATORY DENSITY PER ASTM D698.

TRENCH DETAIL



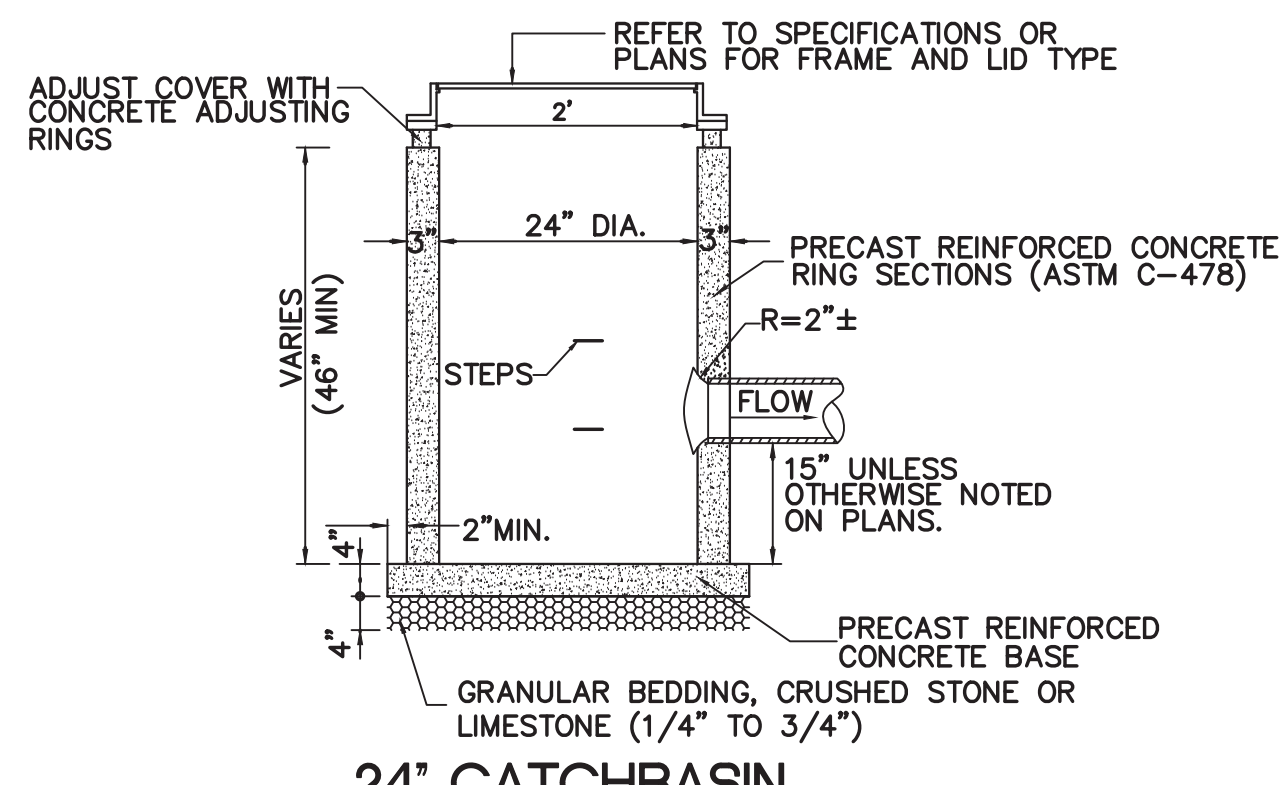
SANITARY MANHOLE (IEPA TYPES A AND C)

- NOTES:
1. PROVIDE EXTERNAL CHIMNEY SEAL ON ALL SANITARY MANHOLES.
 2. USE TYPE A UNLESS SPECIFIED IN SEWER CALLOUT.
 3. OUTSIDE OF SANITARY MANHOLE SHALL BE MOISTURE PROOFED WITH TWO COATS OF BITUMINOUS MATERIAL.



SANITARY MANHOLE (CONCENTRIC)

- NOTES:
1. PROVIDE EXTERNAL CHIMNEY SEAL ON ALL SANITARY MANHOLES.
 2. USE TYPE A UNLESS SPECIFIED IN SEWER CALLOUT.
 3. OUTSIDE OF SANITARY MANHOLE SHALL BE MOISTURE PROOFED WITH TWO COATS OF BITUMINOUS MATERIAL.



24" CATCHBASIN

FIXTURE INFORMATION:				
NAME	TYPE	FLOW RATE	OTHER	QTY.
3-COMP. SINK	3-COMPARTMENT SINK	GPM (1-MINUTE DRAIN TIME): 46.636 GPM (2-MINUTE DRAIN TIME): 21.818	DFU: 6 CAPACITY: 58.182 GAL.	1
FLOOR SINK/DRAIN	FLOOR SINK	GPM (1-MINUTE DRAIN TIME): 5 GPM (2-MINUTE DRAIN TIME): 2.5	DFU: 2 CAPACITY: 0 GAL.	11
MOP SINK - MS-1	MOP BASIN	GPM (1-MINUTE DRAIN TIME): 22.442 GPM (2-MINUTE DRAIN TIME): 11.221	DFU: 3 CAPACITY: 29.922 GAL.	2
VEGETABLE PREP SINK	PREP SINK ONE BOWL	GPM (1-MINUTE DRAIN TIME): 4.675 GPM (2-MINUTE DRAIN TIME): 2.338	DFU: 2 CAPACITY: 6.234 GAL.	1
WAREWASHER HOBART AM16SVLT-1	DOOR TYPE	GPM (1-MINUTE DRAIN TIME): 60 GPM (2-MINUTE DRAIN TIME): 30	DFU: 2 CAPACITY: 60 GAL.	1
TOTALS:		GPM (1-MINUTE DRAIN TIME): 208.19 GPM (2-MINUTE DRAIN TIME): 104.1	DFU: 38 CAPACITY: 184.26 GAL.	

SIZING DETAILS:

PROJECT INFORMATION
CONSTRUCTIONS TYPE: NEW CONSTRUCTION
ADDITIONAL NOTES: McDONALD'S 4584 BUILDING - PROTOTYPICAL

LOCATION: OUTDOORS
BURIED: YES
HIGH WATER AREA: NO

FLOW RATE CALCULATION:
FLOW RATE TO INTERCEPTOR = (LESSER OF FLOW RATE BY PIPE SIZE AND FLOW RATE BY FIXTURES)

SIZE OF PIPE CONNECTED TO THE GREASE INTERCEPTOR: 4 IN.
DRAINAGE PERIOD: 2 MINUTES
FLOW RATE BY PIPE SIZE: 75 GPM
FLOW RATE BY FIXTURES, 2-MINUTE DRAINAGE PERIOD: 104.097 GPM
FLOW RATE BY FIXTURES, 1-MINUTE DRAINAGE PERIOD: 208.195 GPM
FLOW RATE USED TO SELECT GREASE INTERCEPTOR: 75 GPM
FIXTURE DFU: 38

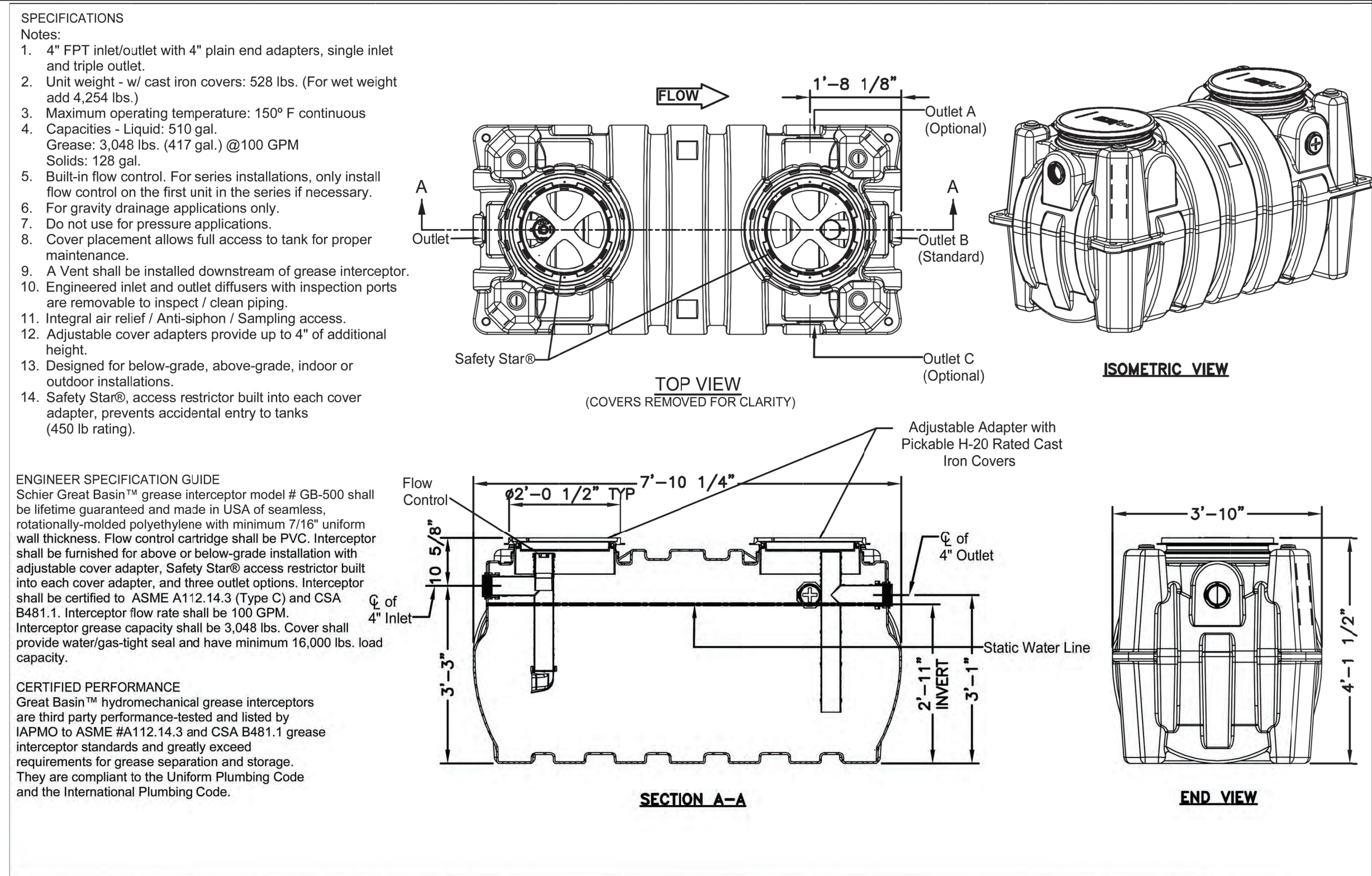
GREASE OUTPUT:
MENU TYPE: FAST FOOD - FULL PREP
FRYER IN KITCHEN: YES
FOOD WASTE DISPOSER: YES
NUMBER OF SEATS: 38 SEATS
GREASE PRODUCTION VALUE: 0.035 LBS. PER SERVING (6.02 LBS. PER DAY)

30-DAY GREASE PRODUCTION: 180.6 LBS.
60-DAY GREASE PRODUCTION: 361.2 LBS.
90-DAY GREASE PRODUCTION: 541.8 LBS.

CALCULATION:
GREASE OUTPUT=(NUMBER OF SEATS)x4(AVERAGE TURNS PER SEAT PER 24 HOURS)x(GREASE PRODUCTION VALUE)x(DAYS BETWEEN PUMP-OUT).

DETAIL

GREASE INTERCEPTOR
SCALE: NONE



SPECIFICATION SHEET

MODEL NUMBER: GB-500 PART NUMBER: 4075-001-01

DESCRIPTION: GB-500 GREASE INTERCEPTOR 100 GPM, 4" INLET/OUTLET, H-20 RATED CAST IRON COVERS

DWG BY: C. BUSENITZ DATE: 4/14/2022 REV: - ECO: -

SCHIER
6455 Woodland Dr
Shawnee, KS 66218
Tel: 913-951-3300
Fax: 913-851-3399
schierproducts.com

DATE: _____

NO. _____

Prepared For: _____

McDonald's
110 N. Carpenter St.
Chicago, IL 60607

McDONALD'S - FITCHBURG, WI
NWC of McKee Road and Fitchrona Road
Fitchburg, Wisconsin

Prepared By: _____

Watermark Engineering Resources
watermark-engineering.com | 2631 Ginger Woods Pkwy | Aurora, IL 60502 | (630) 375-1800

CHECKED BY: J. MILLER
DESIGN BY: J. VOLANTI
DRAWN BY: J. VOLANTI
DATE: DECEMBER 3, 2024
SCALE: NONE
PROJECT NO.: 24-001

C-9.1
LC #48-1082

PROJECT DETAILS

PROJECT SPECIFICATIONS

- 1. CONTRACTOR IS TO FOLLOW ALL ORDINANCES AND REQUIREMENTS OF THE STATE, COMMUNITY, LOCAL DISTRICTS AND WISCONSIN DEPARTMENT OF TRANSPORTATION (WISDOT). ALL PROPOSED IMPROVEMENTS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE "WISDOT", "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION" CURRENT EDITIONS.
- 2. THE CONTRACTOR SHALL INDEMNIFY WATERMARK ENGINEERING RESOURCES, LTD (THE DESIGN ENGINEER), OWNER, THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONDUCTING WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, SPECIFICATIONS, AND ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THIS DEVELOPMENT.
- 3. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL PERMITS THAT ARE REQUIRED BY THE LOCAL AGENCIES.
- 4. PRIOR TO BID AND PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL INSPECT THE SITE TO VERIFY THAT THERE ARE NO DISCREPANCIES BETWEEN THE PLANS AND THE ACTUAL CONDITIONS AT THE SITE. IF ANY DISCREPANCIES ARE FOUND, AT ANY TIME BEFORE OR DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY (BEFORE ANY ADDITIONAL IMPROVEMENTS ARE INSTALLED) IN ORDER TO OBTAIN WRITTEN CONFIRMATION BY THE DESIGN ENGINEER AS TO ANY REVISIONS THAT MAY NEED TO BE MADE TO THE PLANS.
- 5. PRIOR TO CONSTRUCTION, CONTRACTOR IS TO CONTACT THE DESIGN ENGINEER TO VERIFY THAT THEY ARE WORKING FROM THE MOST CURRENT SET OF PLANS AND SPECIFICATIONS.
- 6. THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER, ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION, AND ALL UTILITY COMPANIES THAT MAY BE AFFECTED BY THE PROPOSED CONSTRUCTION 48 HOURS PRIOR TO THE START OF CONSTRUCTION TO ARRANGE APPROPRIATE CONSTRUCTION INSPECTION.
- 7. THE MUNICIPALITY SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION OF THE IMPROVEMENTS.
- 8. PRIOR TO CONSTRUCTION OF ANY IMPROVEMENTS, THE CONTRACTOR MUST CALL "DIGGERS HOTLINE" FOR THE LOCATION AND STAKING OF EXISTING UNDERGROUND UTILITIES (GAS, ELECTRIC, TELEPHONE) AT 811 (1-800-242-8511), OR SUBMIT A TICKET ONLINE AT "DIGGERSHOTLINE.COM" A MINIMUM OF 72 HOURS PRIOR TO DIGGING.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING RECORD DRAWINGS PER THE MUNICIPALITY AND/OR ANY OTHER AGENCY REQUIREMENTS. ANY CHANGES TO THE DRAWINGS MUST BE REPORTED TO THE DESIGN ENGINEER BEFORE WORK PROGRESSES.
- 10. THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY THE MUNICIPALITY.
- 11. ALL QUANTITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE TO BE VERIFIED PRIOR TO CONSTRUCTION. IF DISCREPANCIES OCCUR, THE CONTRACTOR IS TO CONTACT THE DESIGN ENGINEER IMMEDIATELY AND NO WORK IS TO BE DONE UNTIL APPROVED BY THE DESIGN ENGINEER.
- 12. ANY RESTORATION NEEDED BECAUSE OF CONSTRUCTION SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST.
- 13. TRENCH BACKFILL MATERIAL (3/4" MAX CRUSHED AGGREGATE WITH FINES) IS REQUIRED UNDER AND WITHIN TWO FEET (2') OF SIDEWALKS AND PROPOSED PAVED AREAS. THIS BACKFILL SHALL BE IN SIX INCH (6") LIFTS AND COMPACTED TO 95% STANDARD PROCTOR.
- 14. CONTRACTOR IS TO PROVIDE ALL TEMPORARY SIGNAGE AS REQUIRED BY THE WISCONSIN DEPARTMENT OF TRANSPORTATION AND LOCAL MUNICIPALITIES.
- 15. ALL EXISTING DRAIN TILES THAT ARE ENCOUNTERED ARE TO BE RESTORED TO THEIR ORIGINAL CONDITION OR REROUTED TO THE PROPOSED STORM SEWER SYSTEM.
- 16. RESTORATION OF EXISTING RIGHT-OF-WAYS IS TO BE COMPLETED WITH FOUR INCH (4") MINIMUM TOPSOIL AND SALT TOLERANT SOD UNLESS OTHERWISE NOTED.
- 17. THE WATER SYSTEM CANNOT BE SHUT DOWN WITHOUT CONSENT BY THE MUNICIPALITY.
- 18. ALL FRAME ADJUSTMENTS SHALL BE MADE WITH PRE-CAST CONCRETE RINGS CONFORMING TO ASTM C-39 AND CANNOT EXCEED TWELVE INCHES (12").
- 19. FRAMES SHALL BE SET WITH EZ STIK8 (OR EQUAL) MATERIAL TO PREVENT LEAKAGE.
- 20. THE REINFORCED CONCRETE SECTIONS SHALL BE LAID IN MORTAR, SEALED WITH EXTERNAL SEALING BANDS, OR SEALED USING MASTIC JOINT SEALER. WHEN MASTIC JOINT SEALER IS USED, THE MATERIAL SHALL COMPLETELY FILL THE JOINT AFTER THE UNITS HAVE BEEN BROUGHT TOGETHER.
- 21. STEPS IN STRUCTURES SHALL BE MADE OF COPOLYMER POLYPROPYLENE PLASTIC WITH ONE HALF INCH (1/2") GRADE SIXTY (60") STEEL REINFORCEMENT, STEP PSI-PF, AS MANUFACTURED BY M.A. INDUSTRIES, INC., OR APPROVED EQUAL. STEPS TO BE SPACED SIXTEEN INCHES (16") ON-CENTER.
- 22. ALL INSTRUMENTS ARE TO BE PROPERLY CALIBRATED PRIOR TO CONSTRUCTION USE.
- 23. ALL PARKING LOT LIGHT POLES ARE TO BE CONSTRUCTED AT THE INTERSECTION OF PARKING LOT STRIPING OR IN LANDSCAPE AREAS WITH A MINIMUM OF 2' CLEARANCE BETWEEN THE BACK OF CURB AND THE EDGE OF THE PARKING LOT LIGHT BASE UNLESS OTHERWISE SPECIFIED.
- 24. GENERAL CONTRACTOR TO BE BECOME FAMILIAR WITH AND APPLY THE ADA MINIMAL REQUIREMENTS AND REPORT TO THE DESIGN ENGINEER ANY DISCREPANCIES BEFORE CONSTRUCTION. THIS INCLUDES, BUT NOT LIMITED TO, TRANSITIONS TO EXISTING CONDITIONS.
- 25. CONSTRUCTION MEANS, METHODS AND JOB SITE SAFETY IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR.
- 26. PAVING, SIDEWALK, AND CURBING IS NOT TO BE INSTALLED IN SUCH A WAY THAT IT WILL BLOCK THE FLOW OF WATER AWAY FROM THE BUILDING INCLUDING BUT NOT LIMITED TO WEEP HOLES, WICKS, DRAINAGE SCUPPERS OR PIPES, AND LANDSCAPE.

PAVEMENT

- 1. ALL PAVEMENTS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING REFERENCES AS THEY APPLY: WISCONSIN DEPARTMENT OF TRANSPORTATION (WISDOT), STANDARD SPECIFICATIONS LATEST EDITION.
- 2. ALL PAVED AREAS SHALL BE COMPACTED TO 95% STANDARD LABORATORY DENSITY. PER WISCONSIN DEPARTMENT OF TRANSPORTATION. BEFORE THE BASE COURSE MATERIALS ARE INSTALLED, THE SUB-BASE SHALL BE PROOF-ROLLED TO THE SATISFACTION OF THE ENGINEER, HIS AGENT, AND/OR THE SOILS ENGINEER. COMPACTION AND DENSITY TESTS SHALL BE TAKEN AT THE OWNER'S OPTION.
- 3. ALL CONCRETE TO BE MINIMUM 3500 PSI, 6 BAG MIX WITH A SPRAY ON SEALER. EXPANSION AND CONTRACTION JOINTS SHALL BE TOOL FINISHED.
- 4. BINDER COURSE TO BE PLACED WHEN TEMPERATURE IS AT LEAST 40° F AND RISING. SURFACE COURSE TO BE PLACED WHEN TEMPERATURE IS AT LEAST 45° AND RISING.
- 5. ALL PROPOSED PAVEMENT AND CURBS ARE TO BE CONSTRUCTED TO WITHIN A TOLERANCE OF 0.05' OF THE PROPOSED ELEVATIONS EXCEPT IN THE ACCESSIBLE STALLS OR ACCESSIBLE ROUTES.
- 6. PRIOR TO SEAL COATING, ALL ASPHALT AREAS ARE TO BE CLEAN AND DRY. ALL LOOSE MATERIALS ARE TO BE REMOVED. ALL GREASE TO BE REMOVED. ALL CRACKS ARE TO BE FILLED PER WISDOT, STANDARD SPECIFICATION, SECTION 475. ALL PAINTED STRIPING TO BE MODIFIED SHALL BE "BLACKED OUT" WITH BLACK PAINT (1 COAT MINIMUM, 2 COATS IF NECESSARY), ALLOWED TO THOROUGHLY DRY PER PAINT MANUFACTURER, PRIOR TO SEAL COATING. ALL AREAS THAT ARE ADJACENT TO THE SEAL COATED AREA ARE TO BE MASKED (I.E. SIDEWALKS, CONCRETE SURFACES, BRICK SURFACES, GUTTERS, CATCHBASINS/INLETS, ETC.) PRIOR TO SEAL COATING TO BE APPLIED. AIR TEMPERATURE TO BE 50°F AND RISING. APPLICATION RATE TO BE SUCH THAT ALL SURFACES OF THE ASPHALT BEING COATED IS THOROUGHLY COVERED IN ONE COAT. SPRAYING IS NOT ALLOWED. ALL SEAL COATING SHOULD BE APPLIED BY SQUEEGEE OR BRUSHES. THE BITUMINOUS SEAL COATING MATERIAL SHOULD NOT BE ALLOWED TO ENTER STORM SEWERS AND SHOULD BE ALLOWED TO DRY AT LEAST 18 HOURS PRIOR TO VEHICULAR USE. CRACK FILLER AND SEAL COATING MATERIALS ARE TO BE FREE OF COAL TAR.

WATER MAIN SPECIFICATIONS

- 1. HORIZONTAL SEPARATION
A. WATER MAINS AND SEWERS: WATER MAINS SHALL BE LAID AT LEAST TEN FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER, COMBINED SEWER OR SEWER SERVICE CONNECTION.
B. WATER MAINS MAY BE LAID CLOSER THAN TEN FEET TO A SEWER LINE OR SEWER SERVICE CONNECTION WHEN:
i) LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF TEN FEET;
ii) THE WATER MAIN INVERT IS AT LEAST EIGHTEEN INCHES (18") ABOVE THE CROWN OF THE SEWER; AND
iii) THE WATER MAIN IS EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON AN UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF THE SEWER.
C. BOTH THE WATER MAIN AND SEWER PIPE SHALL BE CONSTRUCTED OF PUSH JOINT OR MECHANICAL JOINT DUCTILE IRON PIPE, PRESSURE PIPE, PRESTRESSED CONCRETE PIPE, OR PVC SDR18 PIPE WITH AWWA C-900 JOINTS, WHEN IT IS IMPOSSIBLE TO MEET (A) OR (B) ABOVE. THE DRAIN OR SEWER SHALL BE PRESSURE TESTED TO THE MAXIMUM EXPECTED SURCHARGE HEAD BEFORE BACKFILLING.
- 2. VERTICAL SEPARATION
A. A WATER MAIN SHALL BE LAID SO THAT ITS INVERT IS EIGHTEEN INCHES (18") ABOVE THE CROWN OF THE DRAIN OR SEWER WHENEVER WATER MAINS CROSS STORM SEWERS, SANITARY SEWERS OF SEWER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATER MAIN LOCATED WITHIN TEN FEET HORIZONTALLY OF ANY SEWER OR DRAIN CROSSED. A LENGTH OF WATER MAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER OR DRAIN.
B. BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF PUSH JOINT OR MECHANICAL JOINT DUCTILE PIPE, PRESTRESSED CONCRETE PIPE, OR PVC PIPE AND CONSTRUCTION SHALL EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE PERPENDICULAR DISTANCE FROM THE WATER MAIN TO THE SEWER DRAIN LINE IS AT LEAST TEN FEET (10') WHEN:
i) IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS DESCRIBED IN (A) ABOVE; OR
ii) THE WATER MAIN PASSES UNDER A SEWER OR DRAIN.
C. A VERTICAL SEPARATION OF EIGHTEEN INCHES (18") BETWEEN THE INVERT OF THE SEWER OR DRAIN AND THE CROWN OF THE WATER MAIN SHALL BE MAINTAINED WHERE A WATER MAIN CROSSES UNDER A SEWER. SUPPORT THE SEWER OR DRAIN LINES TO PREVENT SETTling AND BREAKING THE WATER MAIN.
- 3. WATER MAINS AND SERVICES SHALL BE CONSTRUCTED SO THAT THE MINIMUM DEPTH IS FIVE AND ONE HALF FEET (5 1/2') MEASURED FROM FINISHED GRADE TO THE TOP OF THE PIPE, UNLESS OTHERWISE SPECIFIED AND/OR APPROVED BY THE REVIEW ENGINEER.
- 4. ALL WATER MAIN FITTINGS MAY OR MAY NOT BE SHOWN ON THE PLANS AND SHOULD BE INCLUDED IN THE COST OF THE WATER MAIN ITSELF FOR BIDDING PURPOSES. ALL WATER MAIN SHALL BE DUCTILE IRON CLASS 52 CEMENT LINED CONFORMING TO ANSI A-21.51 WITH ANSI A-21.11 JOINTS, OR TYPE "K" COPPER PIPE WITH SWEATED JOINTS.
- 5. FIRE HYDRANTS SHALL MEET AWWA C-502 AND BE TRAVERSE CITY IRON WORKS, EAST JORDAN 5 BR, OR APPROVED EQUAL, WITH FIVE AND ONE QUARTER INCH (5 1/4") VALVE OPENING, TWO TWO AND ONE HALF INCH (2 1/2") HOSE NOZZLES AND ONE FIVE INCH (5") PUMPER NOZZLE. FIRE HYDRANT SHALL BE EQUIPPED WITH AN AUXILIARY RESILIENT SEAL GATE VALVE COMPLETE WITH ROADWAY BOX, TYLER, 6850 SERIES, ITEM 668-S. FIRE HYDRANTS MUST HAVE THEIR DISCHARGE AT LEAST 18 INCHES (18") BUT NOT MORE THAN TWENTY-FOUR INCHES (24") FROM THE SURFACE OF THE ADJACENT GROUND.
- 6. HYDRANTS SHALL BE INSTALLED NO CLOSER THAN THREE FEET (3') NOR FURTHER THAN EIGHT FEET (8') FROM THE BACK OF CURB OR EDGE OF PAVEMENT TO THE FIVE INCH (5") STEAMER NUT. NO BARRIERS, TREES, BUSHES, WALLS OR OTHER OBSTACLES WHICH MAY HIDE OR IMPEDE THE USE OF A FIRE HYDRANT SHALL BE INSTALLED, MAINTAINED, CONSTRUCTED, OR ENLARGED, WITHIN FORTY-EIGHT INCHES (48") OF A HYDRANT.
- 7. ALL STRUCTURE LIDS SHALL BE IMPRINTED "WATER".
- 8. ALL WATERTIGHT FRAMES AND LIDS SHALL BE NEENAH R-1916-C ALL OTHER FRAMES AND LIDS SHALL BE NEENAH R-1550-A WITH A CONCEALED PICK HOLE.
- 9. ALL FRAMES AND LIDS SHALL CONFORM TO ASTM A-48.
- 10. BEFORE BEING PLACED INTO SERVICE, ALL NEW MAINS AND REPAIRED PORTIONS OF, OR EXTENSIONS TO EXISTING MAINS SHALL BE CHLORINATED SO THAT THE INITIAL CHLORINE RESIDUAL IS NOT LESS THAN FIFTY (50) mg/L AND THAT A CHLORINE RESIDUAL OF NOT LESS THAN TWENTY-FIVE (25) mg/L REMAINS IN THE WATER AFTER STANDING TWENTY-FOUR (24) HOURS IN THE PIPE.

GRADING

- 1. GEOTECHNICAL REPORTS AS PREPARED BY OWNER (OR REPRESENTATIVE) SHALL BE REFERRED TO PRIOR TO EARTH MOVING AND/OR UTILITY CONSTRUCTION.
- 2. UNSTABLE SOIL SHALL BE REMOVED OR STABILIZED.
- 3. CONTRACTOR IS TO MAINTAIN A POSITIVE DRAINAGE PATTERN AT THE END OF EACH DAY. CARE SHOULD BE TAKEN TO INSURE THAT DRAINAGE IS NOT REROUTED OR BLOCKED IN A WAY THAT MAY BE INJURIOUS TO ADJACENT LAND.
- 4. SUB-BASES BELOW STRUCTURES, PAVEMENTS OR NEW STRUCTURAL FILL SHALL BE PROOF ROLLED. IF SOIL RUTS, PUMPS, DEFLECTS EXCESSIVELY OR EXHIBITS EXCESSIVE MOVEMENT OR MOISTURE, THEN THE UNSTABLE SOIL SHALL BE UNDERCUT AND REPLACED WITH STRUCTURAL FILL OR OTHERWISE STABILIZED IN A MANNER THAT MEETS THE COMPACTION REQUIREMENTS. THIS PROCESS IS TO BE OBSERVED BY A GEOTECHNICAL ENGINEER.
- 5. ALL FILLS SHALL BE PLACED IN 8" LIFTS COMPACTED TO A MINIMUM OF 98% STANDARD LABORATORY DENSITY PER ASTM D698 UNDER AND WITHIN INFLUENCE OF THE BUILDING, A MINIMUM OF 95% STANDARD LABORATORY DENSITY PER ASTM D698 UNDER AND WITHIN THE INFLUENCE OF ALL OTHER IMPERVIOUS AREAS, AND A MINIMUM OF 90% STANDARD LABORATORY DENSITY PER ASTM D698 IN ALL LANDSCAPE AREAS.
- 6. EROSION CONTROL SHALL BE PROVIDED PRIOR TO ANY DISTURBANCES.
- 7. PROVIDE TOPSOIL RESPREAD PER THE FOLLOWING UNLESS OTHERWISE NOTED:
A. 4" MINIMUM IN GRASS OR SOD AREAS.
B. 6" MINIMUM IN PLANTING AREAS.
C. 12" MINIMUM IN LANDSCAPE ISLANDS.
- 8. ALL TOPSOIL TO BE FRIABLE (NOT COHESIVE), WEED FREE, AND FREE OR ROCKS, LARGE ROOTS AND UNNATURAL DEBRIS.
- 9. ALL GRADING IS TO BE CONSTRUCTED TO WITHIN A TOLERANCE OF 0.10' OF THE PROPOSED ELEVATION OR SUB-BASE ELEVATION.
- 10. PRIOR TO UTILITY CONSTRUCTION, PROPOSED PAVEMENT AREAS, BUILDING PADS, DRIVEWAYS, SIDEWALKS AND YARD/OPEN SPACE AREAS SHALL BE ROUGH EXCAVATED OR FILLED TO PLUS OR MINUS ONE FOOT (1.0') OF DESIGN SUB-BASE ELEVATIONS.
- 11. THE FILL AREAS WITHIN THE RIGHT-OF-WAY WILL REQUIRE SOIL COMPACTION TESTING BY A GEOTECHNICAL FIRM PER W.S.D.O.T. SPECIFICATIONS.

SANITARY SEWER SPECIFICATIONS:

- 1. ALL SANITARY SEWER PIPE SHALL BE D.I.P MIN. CLASS 50, CONFORMING TO ANSI A-21.51 WITH ANSI 21.11 JOINTS; OR P.V.C. PIPE CONFORMING TO ASTM D-3034 SPECIFICATIONS, SDR26 WALL THICKNESS AND ASTM D-3212 GASKET TYPE JOINTS OR ASTM D-2855 SOLVENT WELDED JOINTS; OR P.V.C. PIPE CONFORMING TO ASTM D-3034 SPECIFICATIONS, SDR26 WALL THICKNESS AND ASTM D-3139 JOINT SPECIFICATIONS FOR PRESSURE PIPE; OR CAST IRON PIPE CONFORMING TO ASTM A-74 WITH ASTM C-564 JOINTS.
- 2. ALL WATERMAIN QUALITY PLASTIC PIPE SHALL BE P.V.C. CONFORMING TO NSF STANDARD 14 AND: ASTM STANDARD B 1784 OR AWWA STANDARD C900 OR C905. JOINTING SHALL BE PRESSURE SLIP JOINTED. ELASTOMERIC SEALS (GASKETS) USED FOR PUSH-ON JOINTS SHALL COMPLY WITH ASTM STANDARD F477, AND SHALL BE PRESSURE RATED IN ACCORDANCE WITH ASTM D3139.
- 3. DEFLECTION OF POLYVINYL CHLORIDE (PVC) PIPE SHALL NOT EXCEED 5.0% OF THE "BASE I.D." (INTERNAL DIAMETER) OF THE PIPE. "BASE I.D." SHALL BE CALCULATED IN ACCORDANCE WITH THE FOLLOWING:
AVG ID = AVG OD - 2(1.06)T
TOLERANCE PACKAGE = (A^2 + B^2 + C^2)^(1/2)
WHERE:
A = OD TOLERANCE (ASTM D-3034)
B = EXCESS WALL THICKNESS TOLERANCE = 0.06T
C = OUT-OF-ROUNDNESS TOLERANCE = 0.015 (AVG OD)
T = MINIMUM WALL THICKNESS (ASTM D-3034)
BASE ID = AVG ID - TOLERANCE PACKAGE
DEFLECTION OF COMPOSITE PIPE ("TRUSS" PIPE) SHALL NOT EXCEED 3.0% OF THE AVERAGE INSIDE DIAMETER (ID) OF THE PIPE IN ACCORDANCE WITH ASTM D-2680. THE PIPE LINE SHALL BE TESTED FOR EXCESS DEFLECTING BY PULLING A "GO - NO GO" MANDREL THROUGH THE PIPE FROM MANHOLE TO MANHOLE. THE MANDREL SHALL BE SIZED IN ACCORDANCE WITH SECTION 31-1.11C (4), AND AS SPECIFIED IN THE SPECIAL PROVISIONS. A "DEFLECTOMETER" MAY ALSO BE USED TO CHECK AND RECORD DEFLECTION. WHENEVER POSSIBLE AND PRACTICAL, THE TESTING SHALL INITIATE AT THE DOWNSTREAM LINES AND PROCEED TOWARDS THE UPSTREAM LINES. WHERE THE DEFLECTION IS FOUND TO BE IN EXCESS OF ALLOWABLE TESTING LIMITS, THE CONTRACTOR SHALL EXCAVATE TO THE POINT OF EXCESS DEFLECTION AND CAREFULLY COMPACT AROUND THE POINT WHERE EXCESS DEFLECTION WAS FOUND. THE LINE SHALL THEN BE RETESTED FOR DEFLECTION. HOWEVER, SHOULD AFTER THE INITIAL TESTING THE DEFLECTED PIPE FAIL TO RETURN TO THE ORIGINAL SIZE (INSIDE DIAMETER) THE LINE SHALL BE REPLACED. INFILTRATION OR EXFILTRATION SHALL NOT EXCEED 10 GALLONS PER TWENTY-FOUR (24) HOURS PER MILE PER INCH-DIAMETER OF THE SEWER PIPE, FOR ANY SECTION OF THE SYSTEM AND AT ANY TIME DURING ITS SERVICE LIFE. TESTING IS REQUIRED PER THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN MICHIGAN."
- 5. LEAKAGE TESTING FOR MANHOLES FOR WATER TIGHTNESS SHALL BE DONE IN ACCORDANCE WITH ASTM C989-94--"STANDARD PRACTICE FOR INFILTRATION AND EXFILTRATION ACCEPTANCE TESTING OF INSTALLED PRECAST CONCRETE PIPE SEWER LINES", VOL. 04.05, CHEMICAL RESISTANT MATERIALS, VITRIFIED CLAY, CONCRETE, FIBER-CEMENT PRODUCTS; MORTARS; MASONRY (1996)(NO LATER EDITIONS OR AMENDMENTS) OR ASTM C1244-93 "STANDARD TEST METHOD FOR CONCRETE SEWER MANHOLES BY THE NEGATIVE PRESSURE (VACUUM) TEST", VOL. 04.05, CHEMICAL RESISTANT MATERIALS, VITRIFIED CLAY, CONCRETE, FIBER-CEMENT PRODUCTS; MORTARS; MASONRY (1996)(NO LATER EDITIONS OR AMENDMENTS) PRIOR TO PLACING INTO SERVICE.
- 6. ALL STRUCTURE LIDS SHALL BE IMPRINTED "SANITARY".
- 7. ALL WATERTIGHT FRAMES AND LIDS SHALL BE NEENAH R-1916-C. ALL OTHER FRAMES AND LIDS SHALL BE NEENAH R-1550-A WITH A CONCEALED PICK HOLE.
- 8. ALL FRAMES AND LIDS SHALL CONFORM TO ASTM A-48.
- 9. ALL SEWERS ARE TO BE INSTALLED FROM THE DOWNSTREAM END UPSTREAM. IF ANY CONFLICTS ARE ENCOUNTERED, THE DESIGN ENGINEER IS TO BE CONTACTED PRIOR TO THE INSTALLATION OF ANY PIPE.
- 10. FOR A DROP CONNECTION, THE DIAMETER OF THE DROP PIPE SHALL PREFERABLY BE LARGER THAN, OR OF THE SAME DIAMETER AS, THE ENTERING SEWER. THE MINIMUM DIAMETER OF THE DROP PIPE SHALL NOT BE SMALLER THAN THE DIAMETER OF THE ENTERING SEWER BY MORE THAN TWO NOMINAL DIAMETERS, PROVIDED THAT THE MINIMUM DIAMETER OF THE DROP PIPE SHALL NOT BE LESS THAN EIGHT INCHES (8").
- 11. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER.

STORM SEWER SPECIFICATIONS

- 1. ALL REINFORCED CONCRETE PIPE SHALL CONFORM TO ASTM C-76 SPECIFICATIONS WITH ASTM C-443 FLAT GASKET JOINTS, OR ASTM C-361 "O-RING" JOINTS WHEN WATER MAIN QUALITY JOINTS ARE REQUIRED.
- 2. ALL PLASTIC PIPE SHALL BE P.V.C. WITH SDR26 WALL THICKNESS AND CONFORM TO D-3034 SPECIFICATIONS WITH ASTM D-3212 GASKET TYPE JOINTS.
- 3. ALL WATERMAIN QUALITY PLASTIC PIPE SHALL BE P.V.C. CONFORMING TO NSF STANDARD 14 AND: ASTM STANDARD B 1784 OR AWWA STANDARD C900 OR C905. JOINTING SHALL BE PRESSURE SLIP JOINTED. ELASTOMERIC SEALS (GASKETS) USED FOR PUSH-ON JOINTS SHALL COMPLY WITH ASTM STANDARD F477, AND SHALL BE PRESSURE RATED IN ACCORDANCE WITH ASTM D3139.
- 4. ALL STRUCTURE LIDS SHALL BE IMPRINTED "STORM".
- 5. ALL FRAMES AND LIDS SHALL CONFORM TO ASTM A-48.
- 6. ALL SEWERS ARE TO BE INSTALLED FROM THE DOWNSTREAM END UPSTREAM. IF ANY CONFLICTS ARE ENCOUNTERED, THE DESIGN ENGINEER IS TO BE CONTACTED PRIOR TO THE INSTALLATION OF ANY PIPE.
- 7. IN PAVED AREAS, ALL FRAMES AND LIDS SHALL BE: NEENAH R-2050 OR R-2502 WITH TYPE D GRATE AT LOW POINTS; OR NEENAH R-3281-A IN CURB AND GUTTER; OR NEENAH R-1550-A WITH SOLID LID, UNLESS OTHERWISE SPECIFIED.
- 8. IN NON-PAVED AREAS, ALL FRAMES AND LIDS SHALL BE: NEENAH R-2090 OR R-2060 WITH TYPE B GRATE AT LOW POINTS; OR NEENAH R-1550-A WITH SOLID LID, UNLESS OTHERWISE SPECIFIED.
- 9. ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER.
- 10. ALL FLARED END SECTIONS (FES) ARE TO BE INSTALLED WITH TRASH GRATES.

'AMERICANS WITH DISABILITIES ACT' (ADA) MINIMAL REQUIREMENTS:

- 1. GENERAL CONTRACTOR TO BECOME FAMILIAR WITH AND APPLY THE ADA MINIMAL REQUIREMENTS AND REPORT TO ARCHITECT/ENGINEER ANY DISCREPANCIES BEFORE CONSTRUCTION.
- 2. ACCESSIBLE ROUTES ON AN ACCESSIBLE SITE AND FOR ANY NEW SITE IMPROVEMENTS SHALL BE PROVIDED TO SERVE ALL ACCESSIBLE SPACES OR ELEMENTS.
- 3. THE MINIMUM CLEAR WIDTH OF AN ACCESSIBLE ROUTE PER CODE IS 36".
- 4. EACH ACCESSIBLE PARKING SPACE IS TO BE:
4.1. CAR:
A MINIMUM OF 192" WIDE, CONSISTING OF A 96" WIDE ACCESS AISLE AND A 96" WIDE PARKING SPACE, UNLESS OTHERWISE NOTED. (SEE DETAIL). THE ACCESS AISLE SHALL BE PERMITTED TO BE PLACED ON EITHER SIDE OF THE PARKING SPACE. SEE DETAIL FOR REQUIRED DEPTH.
4.2. VAN:
A MINIMUM OF 192" WIDE, CONSISTING OF A 96" WIDE ACCESS AISLE AND A 96" WIDE PARKING SPACE, UNLESS OTHERWISE NOTED (SEE DETAIL). WHEN VAN ACCESSIBLE PARKING SPACES ARE ANGLED, THE ACCESS AISLE SHALL BE LOCATED ON THE PASSENGER SIDE OF THE PARKING SPACE. SEE DETAIL FOR REQUIRED DEPTH.
- 5. ACCESSIBLE PARKING SPACES ARE TO BE LOCATED AS CLOSE TO THE ACCESSIBLE BUILDING ENTRANCE AS POSSIBLE AND SHALL BE IDENTIFIED WITH A SIGN.
- 6. RAMPS MUST NOT EXTEND OUT FROM THE CURB INTO THE ACCESS AISLE OF ANY ACCESSIBLE PARKING SPACE.
- 7. TWO 90 DEGREE ACCESSIBLE PARKING SPACES MAY SHARE AN ACCESS AISLE.
- 8. ACCESS AISLES SHALL BE MARKED SO AS TO DISCOURAGE PARKING IN THEM. (SEE DETAIL)
- 9. ALL ADA PARKING STALLS, ACCESS AISLES AND CROSSWALKS SHALL BE STRIPED USING 4" WIDE DOUBLE LAYER OF HIGH QUALITY YELLOW PAINT, UNLESS OTHERWISE NOTED.
- 10. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED A SLOPE OF 1:50 (2.00%) IN ANY DIRECTION.
- 11. EACH ACCESSIBLE PARKING SPACE SHALL HAVE AN IDENTIFICATION SIGN (SEE DETAIL).
- 12. A 24" ELECTRONIC LEVEL WILL BE USED BY MANY INSPECTORS IN THE POST CONSTRUCTION CONDITION TO MEASURE ADA SLOPES. A 24" LEVEL HAS A NARROWER TOLERANCE THAN LONGER ELECTRONIC LEVELS AND REPRESENTS THE WHEELBASE OF A TYPICAL WHEELCHAIR. AS SUCH, A PROPERLY CALIBRATED, 24" ELECTRONIC LEVEL IS RECOMMENDED FOR SETTING AND MEASURING SLOPES IN ALL ADA ACCESSIBLE AREAS THROUGHOUT THE CONSTRUCTION PROCESS.
- 13. AN ACCESSIBLE ROUTE WITH A RUNNING SLOPE GREATER THAN 1:20 (5.00%) IS A RAMP AND SHALL COMPLY WITH THE RAMP REQUIREMENTS.
- 14. AN ACCESSIBLE ROUTE MAY CROSS OPEN PAVEMENT OR FOLLOW A RAMP AS REQUIRED BY SITE-SPECIFIC CONDITIONS. THE RUNNING SLOPE OF AN ACCESSIBLE ROUTE ACROSS OPEN PAVEMENT MUST NOT EXCEED 1:20 (5.00%), WITH A GROSS SLOPE NOT EXCEEDING 1:50 (2.00%). SLOPES EXCEEDING 1:20 (5.00%), BUT LESS THAN 1:12 (8.33%), CONSTITUTE RAMPS AND MUST CONFORM TO THE REQUIREMENTS FOR RAMP DESIGN (HANDRAILS, CURBS, LANDINGS, RISE AND RUN LIMITS, ETC.) AS DETAILED ON THE CIVIL AND ARCHITECTURAL PLANS. NO RAMP SHALL HAVE A RUNNING SLOPE EXCEEDING 1:12 (8.33%), NOR HAVE A GROSS SLOPE EXCEEDING 1:50 (2.00%).
- 15. THE GENERAL CONTRACTOR/CONTRACTOR SHALL MEASURE THE SUBGRADE AND ACROSS FORMS PRIOR TO INSTALLATION OF ASPHALT OR CONCRETE IMPROVEMENTS TO ASSURE THE FINAL IMPROVEMENTS WILL MEET THESE MINIMAL ADA REQUIREMENTS. ANY DISCREPANCIES SHALL BE REPORTED TO THE CIVIL ENGINEER PRIOR TO INSTALLATION OF THE IMPROVEMENTS.

CURB RAMPS

- 16. A CURB RAMP SHALL BE PROVIDED WHEREVER AN ACCESSIBLE ROUTE CROSSES A CURB.
- 17. CURB RAMPS HAVE A MAXIMUM SLOPE OF 1:12 (8.33%) AND DO NOT REQUIRE HANDRAILS.
- 18. IF A CURB RAMP IS LOCATED WHERE PEDESTRIANS MUST WALK ACROSS THE RAMP, OR WHERE IT IS NOT PROTECTED BY HANDRAILS, OR GUARDRAILS, IT SHALL HAVE FLARED SIDES; THE MAXIMUM SLOPE OF THE FLARE SHALL BE 1:12 (8.33%).

DATE: _____

REVISIONS: _____

Prepared For: _____

Prepared By: _____

watermark-engineering.com | 2631 Ginger Woods Pkwy | Aurora, IL 60502 | (630) 375-1800

McDonald's
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Chicago, IL 60607

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NWC of McKee Road and Fitchrona Road
Fitchburg, Wisconsin

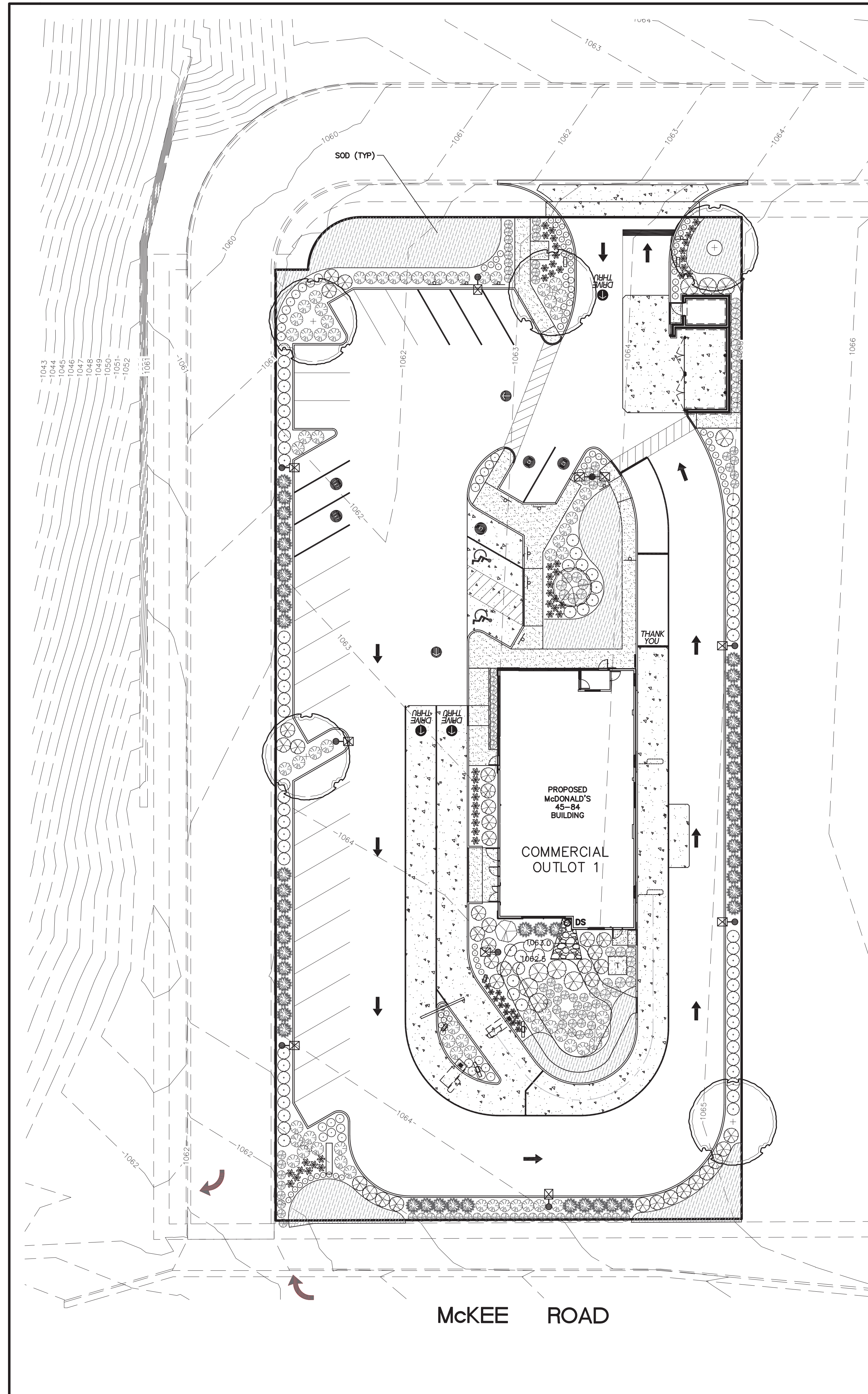
watermark-engineering.com | 2631 Ginger Woods Pkwy | Aurora, IL 60502 | (630) 375-1800

PROJECT SPECIFICATIONS

CHECKED BY: J. MILLER
DESIGN BY: J. VOLANTI
DRAWN BY: J. VOLANTI
DATE: DECEMBER 3, 2024
SCALE: NONE
PROJECT NO.: 24-001

C-10
LC #48-1082

PROJECT SPECIFICATIONS



LANDSCAPE NOTES

1. ALL PLANT MATERIAL SHALL BE HARDY TO THE ZONE IT IS BEING PLANTED IN. ALL TREES AND SHRUBS ARE TO BE BALLED AND BURLAPED UNLESS OTHERWISE NOTED AND SHALL BE GROWN IN ACCORDANCE WITH THE STANDARDS SET FORTH BY THE LATEST EDITION OF AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY AMERICANHORT.
2. PLANT SIZES CALLED OUT ON THIS PLAN ARE THE MINIMUM SIZE REQUIRED. PLANTS WHICH FAIL TO MEET THE SIZES LISTED, SHALL BE REJECTED AT THE EXPENSE OF THE CONTRACTOR.
3. CONTRACTOR MUST VERIFY ALL MATERIAL QUANTITIES AS DEPICTED ON THE DRAWING. THE PLANT LIST PROVIDED ON THIS PLAN IS FOR CONVENIENCE ONLY.
4. SUBSTITUTIONS MAY NOT BE MADE WITHOUT THE APPROVAL OF THE LANDSCAPE ARCHITECT/DESIGNER.
5. THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE AGENCIES AND UTILITY LOCATORS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOT BEGIN ANY WORK ON-SITE UNTIL ALL UTILITIES HAVE BEEN LOCATED. CONTRACTOR SHALL OBTAIN "AS-BUILT" PLANS FOR ALL IRRIGATION AND LIGHTING PRIOR TO CONSTRUCTION.
6. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL UTILITIES INCLUDING IRRIGATION AND LIGHTING. ALL DAMAGE SHALL BE REPAIRED TO A NEW CONDITION IN ACCORDANCE WITH ALL CODES AT NO COST TO THE OWNER - SEE NOTE 5.
7. ALL UNSUITABLE MATERIAL (CONCRETE, AGGREGATE STONE, CRUSHED ASPHALT, BRICK ETC.) SHALL BE REMOVED, INCLUDING HAUL OFF, PRIOR TO PLANTING AND SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
8. SOIL MIX PM35 BY MIDWEST TRADING COMPANY OR EQUAL SHALL BE ROTOTILLED INTO ALL PERENNIAL AND ANNUAL PLANTING BEDS PRIOR TO THE INSTALLATION OF THE PLANT MATERIAL. A SLOW RELEASE, GRANULAR FERTILIZER SHALL BE APPLIED TO ALL ANNUAL AND PERENNIAL PLANTING BEDS AT THE RECOMMENDED RATE, AND SHALL BE ROTOTILLED IN WITH THE ABOVE SOIL MIXTURE BEFORE THE PLANT MATERIAL IS INSTALLED.
9. CONTRACTOR TO PROVIDE THOROUGH INITIAL WATERING OF ALL PLANTINGS WITHIN 12 HOURS OF INSTALLATION TO ENSURE ALL AIR POCKETS HAVE BEEN REMOVED AROUND ROOT BALL.
10. ALL PLANT BED AREAS ARE TO BE MULCHED WITH 3" OF DOUBLE SHREDDED HARDWOOD MULCH AND SHALL BE SEPARATED WITH A SPADE EDGE ALONG PERIMETERS ADJACENT TO TURF AREAS. FINAL GRADE (AFTER SETTLING) SHALL BE 1" BELOW ADJACENT CURBS.
11. ALL TURF AREAS ARE TO BE A MINIMUM OF A FIVE WAY BLUEGRASS BLEND, UNLESS OTHERWISE NOTED. CONTRACTOR IS RESPONSIBLE FOR WATERING ALL INSTALLED TURF AREAS UNTIL TIME OF KNITTING. IF TURF SEED AND SOD OCCUR ON THE SAME PROJECT, CONTRACTOR SHALL VERIFY AND USE SEED MIXTURES TO MATCH SOD.
12. AREAS TO BE SODDED SHALL BE WITH AN "APPROVED TURFGRASS SOD" OF PREMIUM GRADE. SOD SHALL BE A 5 WAY BLEND OF IMPROVED KENTUCKY BLUEGRASS VARIETIES THAT HAS BEEN GROWN LOCALLY TO THE PROJECT SITE. SOD MUST BE MATURED FOR 2 FULL GROWING SEASONS PRIOR TO HARVEST CUTTING AND BE HEALTHY WITH WELL ESTABLISHED ROOTS. SOD SHALL BE FREE OF DISEASE, INSECTS AND DEBRIS. SOD SHALL BE UNIFORM IN LEAF COLOR, TEXTURE, AND DENSITY. SOD SHALL BE DELIVERED, INSTALLED, AND WATERED WITHIN 24 HOURS OF HARVEST IN WHICH TEMPERATURES DO NOT EXCEED 90 DEGREES (F) NOR LESS THAN 55 DEGREES (F). SOD SHALL BE MACHINE-CUT AT A MINIMUM UNIFORM SOIL THICKNESS (1.5" OF SOD IS DESIRED) BUT SOD THICKNESS SHALL BE A THICKNESS NECESSARY FOR PLANT VIABILITY. SOD SHALL BE LAID IN STAGGERED STRAIGHT LINES, TIGHTLY AGAINST EACH OTHER WITHOUT STRETCHING OR OVERLAPPING. SOD STAKES SHALL USE ON ALL SLOPES 4:1 OR GREATER.
13. CONTRACTOR SHALL REPAIR ALL DISTURBED AREAS (INTENDED OR UNINTENDED) AT A MINIMUM, TO THE ORIGINAL CONDITION UNLESS OTHERWISE NOTED.
14. THE EXISTING PLANT MATERIAL SHOWN ON THIS PLAN IS INTENDED SOLELY TO IDENTIFY THEM AS OBSERVED IN THE FIELD. THIS PLAN DOES NOT MAKE ANY CLAIMS ABOUT THE CONDITION OR SAFETY OF ANY OF THE PLANT MATERIAL DESCRIBED HEREIN OR OBSERVED IN THE FIELD.
15. ALL TRANSPANTED PLANT MATERIAL SHALL BE INSTALLED IMMEDIATELY UPON EXTRACTION FROM ITS ORIGINAL LOCATION, UNLESS SPECIFIC ARRANGEMENTS HAVE BEEN MADE WITH THE LANDSCAPE ARCHITECT/DESIGNER. SHOULD IT BECOME UNREASONABLE TO TRANSPLANT ANY OF THE PLANT MATERIAL AS DESCRIBED IN THIS PLAN, DUE TO SITE CONSTRAINTS OR OTHERWISE, CONTRACTOR IS RESPONSIBLE FOR CONTACTING LANDSCAPE ARCHITECT/DESIGNER TO MAKE ALTERNATIVE ARRANGEMENTS.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE HEALTH AND VIABILITY OF THE PROPOSED PLANT MATERIAL INCLUDING WATERING, PROTECTION FROM PHYSICAL DAMAGE FROM THE TIME PLANT IS SELECTED THROUGH ITS INSTALLATION.
17. CONTRACTOR IS RESPONSIBLE FOR ALL PLANT MATERIAL REMAINING PLUMB UNTIL THE END OF THE GUARANTEE PERIOD. PLANTS MAY NOT BE STAKED UNLESS APPROVED BY THE LANDSCAPE ARCHITECT/DESIGNER.
18. CONTRACTOR TO GUARANTEE PLANT MATERIAL AND LABOR FOR A MINIMUM OF ONE YEAR FROM THE TIME OF INSTALLATION.
19. THE CONTRACTOR IS RESPONSIBLE FOR BECOMING FAMILIAR WITH AND ABIDING BY THE LANDSCAPE ORDINANCES FOR THE SPECIFIC JURISDICTION IN WHICH THE WORK IS TAKING PLACE.
20. BIDDERS SHALL BE RESPONSIBLE FOR EXAMINING THE SITE, PRIOR TO PREPARING BID, TO BECOME FAMILIAR WITH THE SPECIFIC SITE CONSTRAINTS.
21. ALL EXISTING ON-SITE PLANT MATERIAL NOT EFFECTED BY CONSTRUCTION OR THE PROPOSED LANDSCAPE, SHALL BE PROTECTED AS PART OF THIS PLAN. EXISTING LANDSCAPE IN AREAS OF CONSTRUCTION AND PROPOSED LANDSCAPE SHALL BE REMOVED AS PART OF THIS PLAN.
22. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE COMPLETION OF ALL THE ITEMS SHOWN ON THE PLANS.
23. IF IRRIGATION IS DEEMED NECESSARY, THE DESIGN AND INSTALLATION OF THE IRRIGATION SYSTEM SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR. AN IRRIGATION PLAN ALONG WITH AN AS BUILT OF THE IRRIGATION SYSTEM SHALL BE PREPARED FOR OWNER REVIEW AND APPROVAL. CONTRACTOR SHALL GUARANTEE PERFORMANCE, PARTS, AND LABOR FOR A PERIOD OF 1 YEAR FROM THE DATE OF FINAL APPROVAL.
24. IF EXISTING IRRIGATION IS PRESENT ON SITE, CONTRACTOR SHALL ADJUST, ADD TO, OR SUBTRACT FROM, THE EXISTING IRRIGATION SYSTEM TO ACCOMMODATE ANY PROPOSED ALTERATIONS/ADDITIONS TO THE EXISTING LANDSCAPE. CONTRACTOR SHALL PROVIDE THE OWNER AN AS BUILT OF THE IRRIGATION SYSTEM AND ALL CHANGES TO THE SYSTEM AFFECTED BY THIS PROJECT.
25. DURING THE BIDDING PROCESS, THE LANDSCAPE CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR OR OTHER PARTIES RESPONSIBLE FOR THE OVERALL BIDDING OF THE PROJECT TO DETERMINE WHICH CONTRACTOR SHALL BE RESPONSIBLE FOR THE REQUIRED TOPSOIL RE-SPREAD PER THE FOLLOWING UNLESS OTHERWISE NOTED:
 - A. 4" MINIMUM IN GRASS OR SOD AREAS
 - B. 6" MINIMUM IN PLANTING AREAS
 - C. 12" MINIMUM IN LANDSCAPE ISLANDS

PLANT LIST

SHADE, ORNAMENTAL, AND CONIFEROUS TREES

QTY.	ABRV.	BOTANICAL NAME	COMMON NAME	SIZE
2	SSM	Acer miyabei 'Morton'	State Street Maple	2 1/2" Cal.
3	FTE	Ulmus x frontier	Frontier Elm	2 1/2" Cal.
1	ABS	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	6'

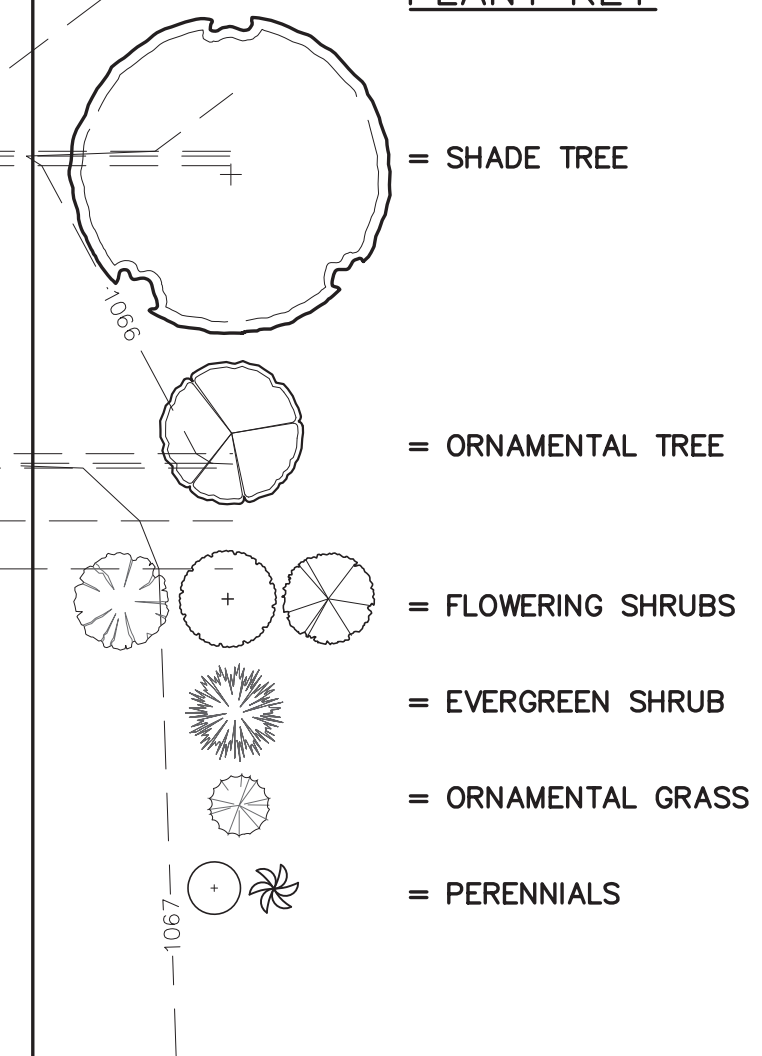
FLOWERING AND EVERGREEN SHRUBS

QTY.	ABRV.	BOTANICAL NAME	COMMON NAME	SIZE
45	ALH	Aronia melanocarpa 'UCONNAM165'	Aronia Low Scape Hedger	3 Gal.
77	KOH	Diervilla 'G2X88544'	Kodiak Orange Honeysuckle	3 Gal.
1	VWH	Hamamelis vernalis	Vernal Witchhazel	5 Gal.
7	BOH	Hydrangea paniculata 'Bobo'	Bobo Hydrangea	5 Gal.
26	LQH	Hydrangea paniculata 'SMHPLQF'	Little Quick Fire Hydrangea	3 Gal.
5	GLS	Rhus aromatica 'Grow-Low'	Grow-Low Sumac	5 Gal.
4	MKL	Syringa patula 'Miss Kim'	Miss Kim Lilac	5 Gal.
30	DHW	Weigela x 'Dark Horse'	Dark Horse Weigela	3 Gal.
51	DNY	Taxus x media 'Densiformis'	Densiformis Yew	5 Gal.

PERENNIALS, ORNAMENTAL GRASS AND GROUNDCOVERS

QTY.	ABRV.	BOTANICAL NAME	COMMON NAME	SIZE
18	SBA	Allium 'Summer Beauty'	Summer Beauty Onion	1 Gal.
13	BCC	Campanula carpatica 'Blue Clips'	Blue Clips Bellflower	1 Gal.
45	FWD	Dianthus gratianopolitanus 'Firewitch'	Firewitch Dianthus	1 Gal.
35	ASD	Hemerocallis x 'Apricot Sparkles'	Apricot Sparkles Daylily	1 Gal.
27	WLC	Nepeta racemosa 'Walker's Low'	Walker's Low Catmint	1 Gal.
32	DTB	Penstemon digitalis 'Dark Towers'	Dark Towers Beardtongue	1 Gal.
30	KFF	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	1 Gal.
92	PDS	Sporobolus heterolepis	Prairie Dropseed	1 Gal.

PLANT KEY



GENERAL NOTES:

1. THESE PLANS ARE BASED ON THE FINAL ENGINEERING PLANS (PROJECT #22-11636 DATED 9/11/24) PREPARED BY: JSD 507 W. VERONA AVE., SUITE 500, VERONA, WI 53593
2. PRIOR TO CONSTRUCTION, CONTRACTOR TO CONTACT THE DESIGN ENGINEER AND ARCHITECT TO VERIFY THAT THEY ARE WORKING FROM THE MOST CURRENT SET OF PLANS AND SPECIFICATIONS.

ON SITE PARKING DATA

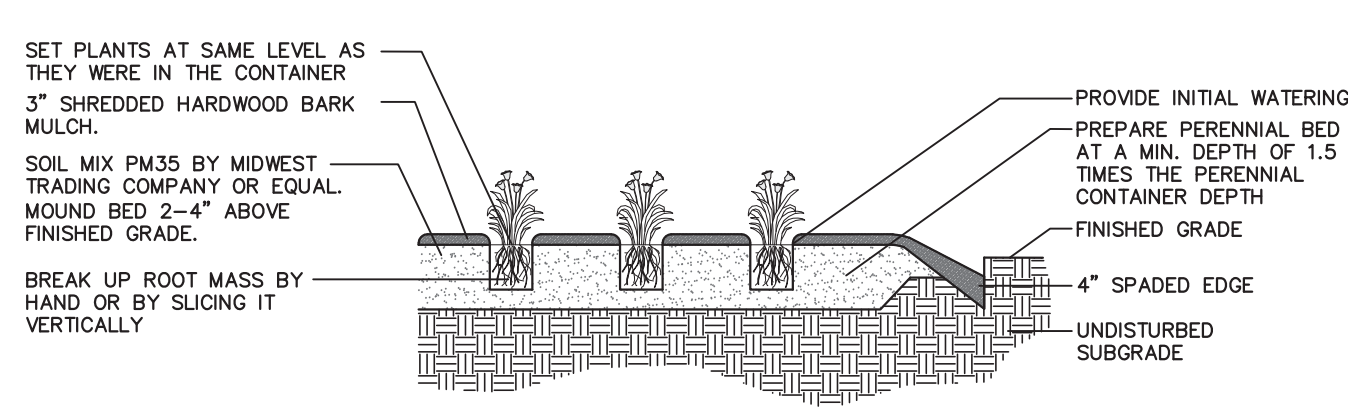
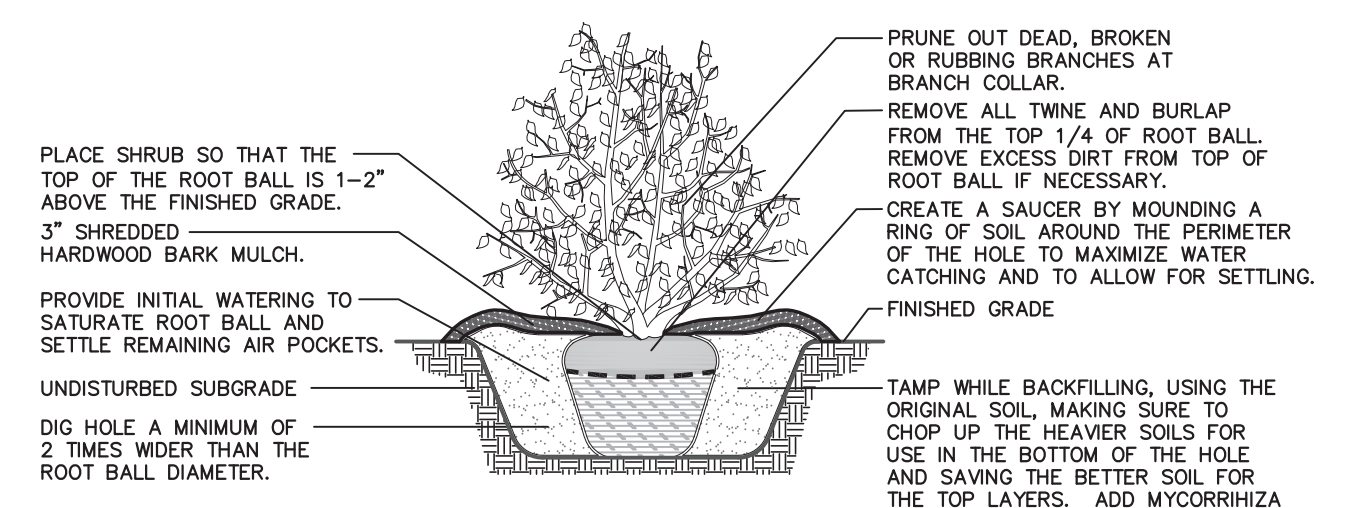
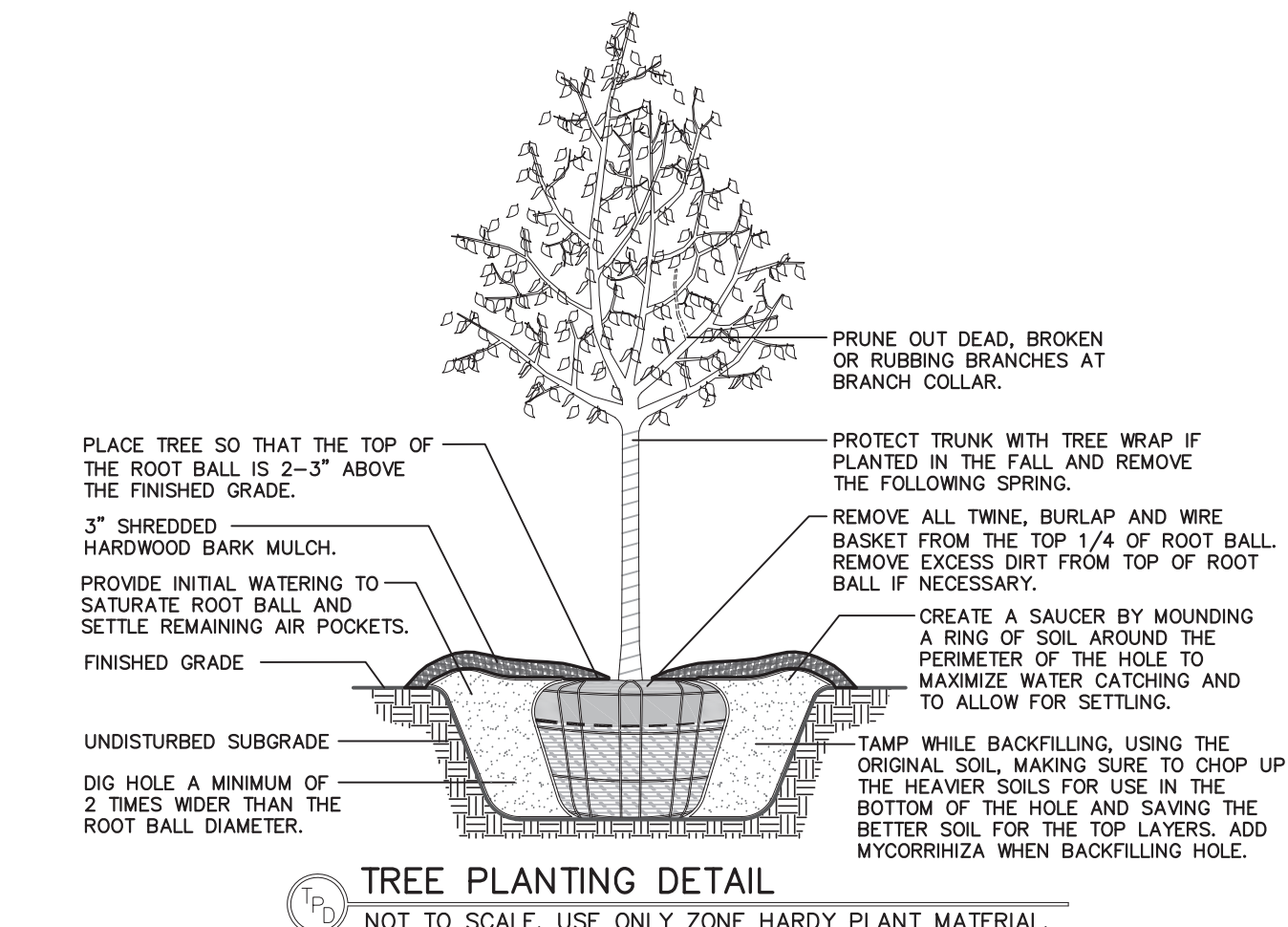
REGULAR SPACES	32
ADA ACCESSIBLE SPACES	2
TOTAL SPACES	34

PARKING REQUIREMENT: 6 SPACES PER 1000 SF OF GROSS BUILDING AREA (3,900/1000*6 = 23 SPACES REQUIRED)

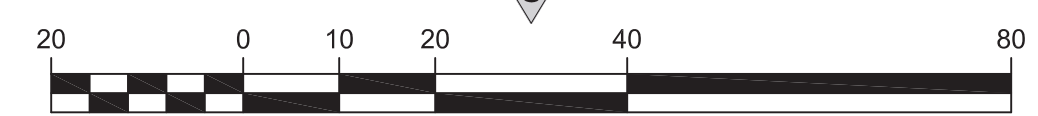
34 SPACES PROVIDED > 23 SPACES REQUIRED ∴ OK

SITE DATA

ZONING	=	PDD-GIP
LOT AREA	=	48,710 S.F. (1.12 AC.)
PERVIOUS AREA	=	12,137 S.F. (25%)
IMPERVIOUS AREA	=	36,573 S.F. (75%)
BUILDING AREA	=	3,900 S.F.±
SEATS	=	35±



Know what's Below. Call before you dig.



LANDSCAPE PLAN

CHECKED BY: J. MILLER
 DESIGN BY: J. VOLANTI
 DRAWN BY: J. VOLANTI
 DATE: DECEMBER 3, 2024
 SCALE: 1" = 20'
 PROJECT NO.: 24-001
 watermark-engineering.com | 2631 Ginger Woods Pkwy | Aurora, IL 60502 | (630) 375-1800

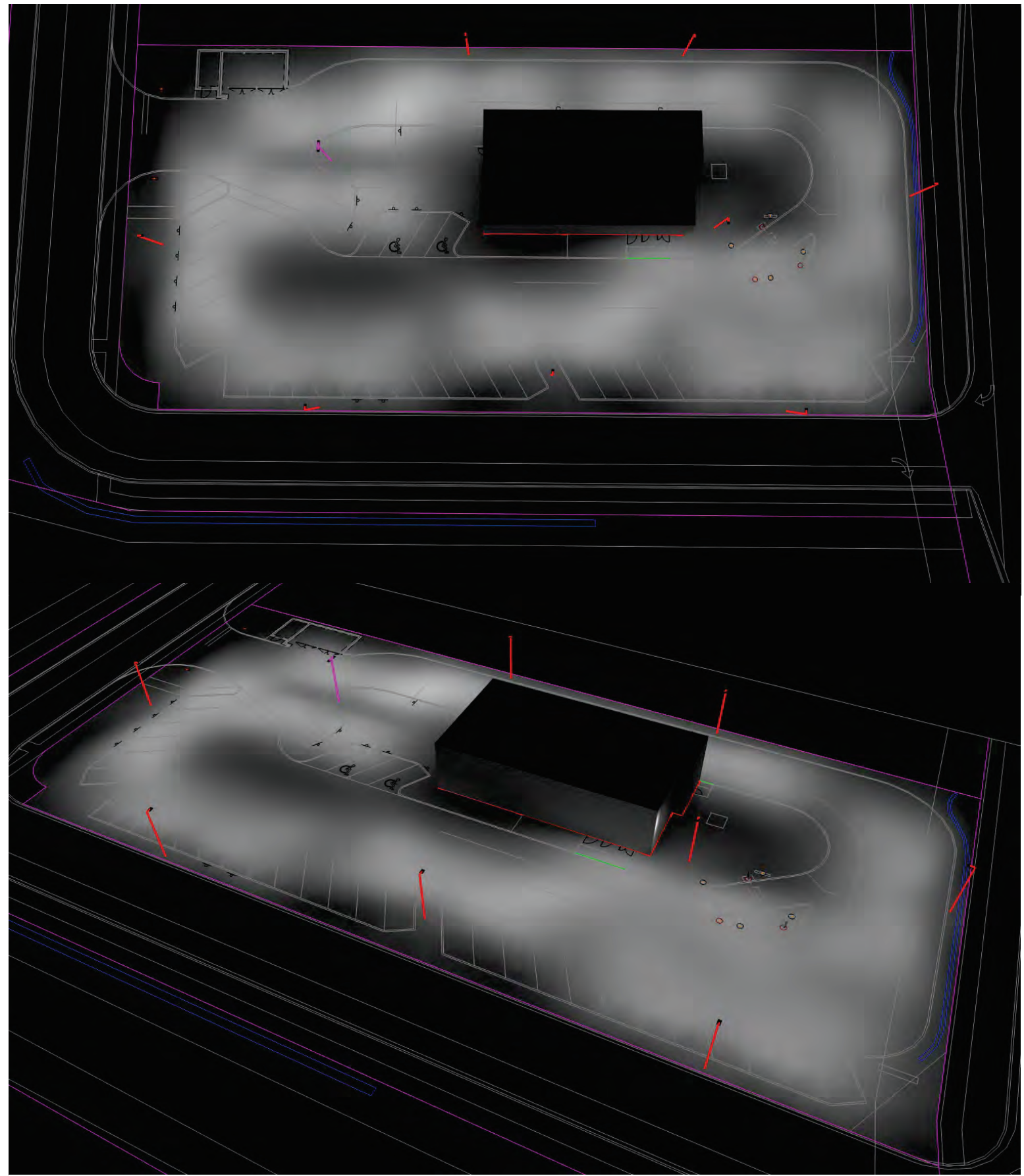
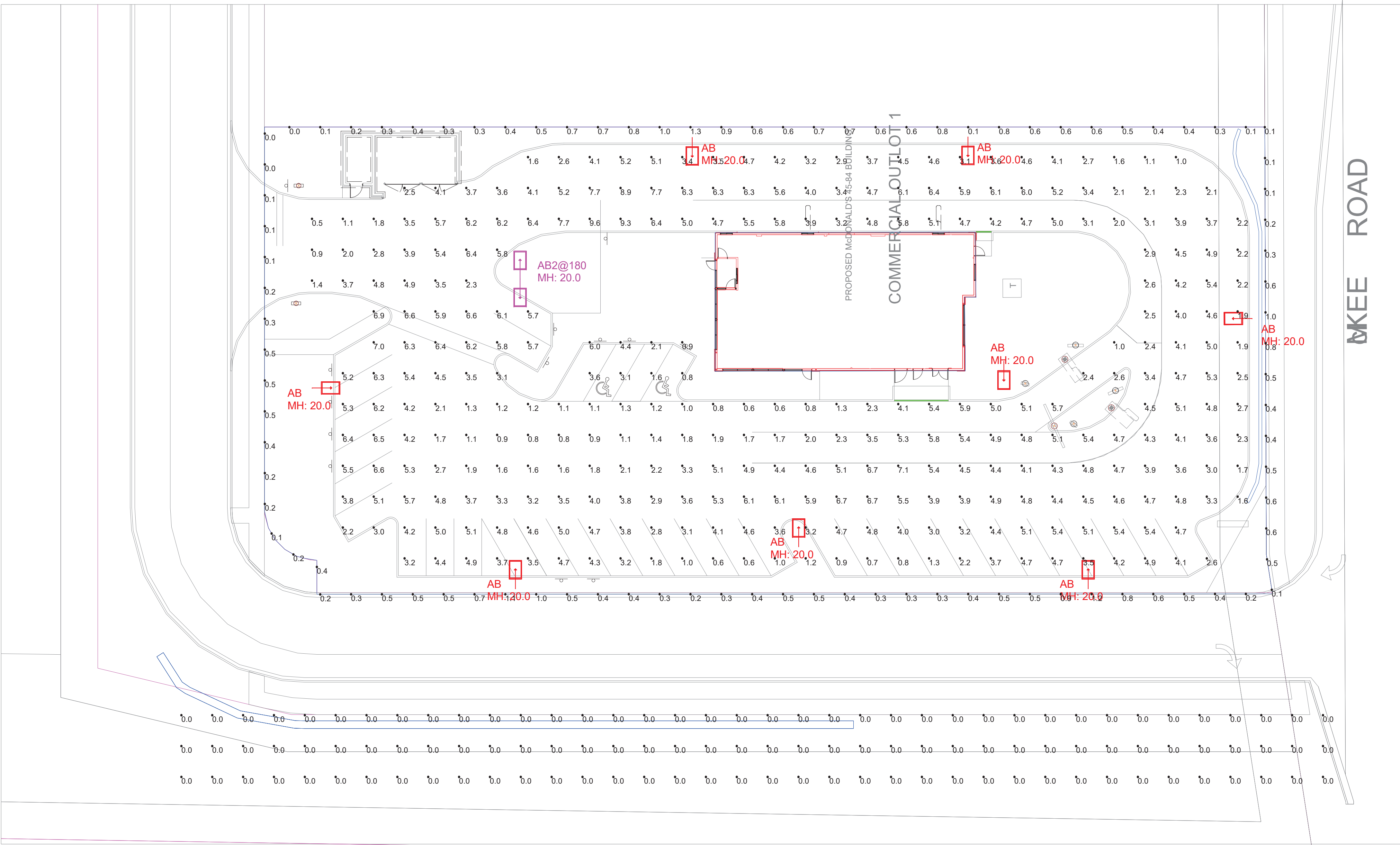
Prepared For:
McDonald's
 110 N. Carpenter St.
 Chicago, IL 60607
McDONALD'S - FITCHBURG, WI
 NWC of McKee Road and Fitchrona Road
 Fitchburg, Wisconsin

Prepared By:
Watermark Engineering Resources
 watermark-engineering.com | 2631 Ginger Woods Pkwy | Aurora, IL 60502 | (630) 375-1800

L-1
 LC #48-1082

LANDSCAPE PLAN

NOTES:
 1. THE FOOTCANDLE LEVELS AS SHOWN ARE BASED ON THE FOLLOWING CRITERIA. ANY SUBSTITUTIONS IN SPECIFIED FIXTURES OR CHANGES TO LAYOUT WILL AFFECT LIGHTING LEVELS SHOWN AND WILL NOT BE THE RESPONSIBILITY OF SECURITY LIGHTING.
 2. DISTANCE BETWEEN READINGS _____ 10'



Pole Fixtures Are Full Cutoff
 Tilt=0
 Calculation Grids Are At Grade
 Pole Light Mounting Height=20ft
 (17' Pole + 3' Base)

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Pave Surface Areas	Illuminance	Fc	3.90	9.6	0.5	7.80	19.20
Propertyline	Illuminance	Fc	0.45	1.3	0.0	N.A.	N.A.
Residential Property	Illuminance	Fc	0.00	0.0	0.0	N.A.	N.A.

Luminaire Schedule									
Symbol	Qty	Label	Arrangement	LLF	Description	Lum. Watts	EPA	Mtg Height	Pole Type
	8	AB	SINGLE	0.850	RAR-2-480L-240-5K7-4W-BC	226.9	0.607	20	SES-17-40-1-TA-GL-xx (4")
	1	AB2@180	BACK-BACK	0.850	RAR-2-480L-240-5K7-4W-BC	226.9	0.607	20	SES-17-40-1-TA-GL-xx (4")

PROJECT WIND LOAD CRITERIA BASED ON:
 ASCE 7-10 WIND SPEEDS (3-SEC PEAK GUST MPH)
 50 YEAR MEAN RECURRENCE INTERVAL
 ALLOWED EPA 13.6 @ WIND LOAD 90 MPH

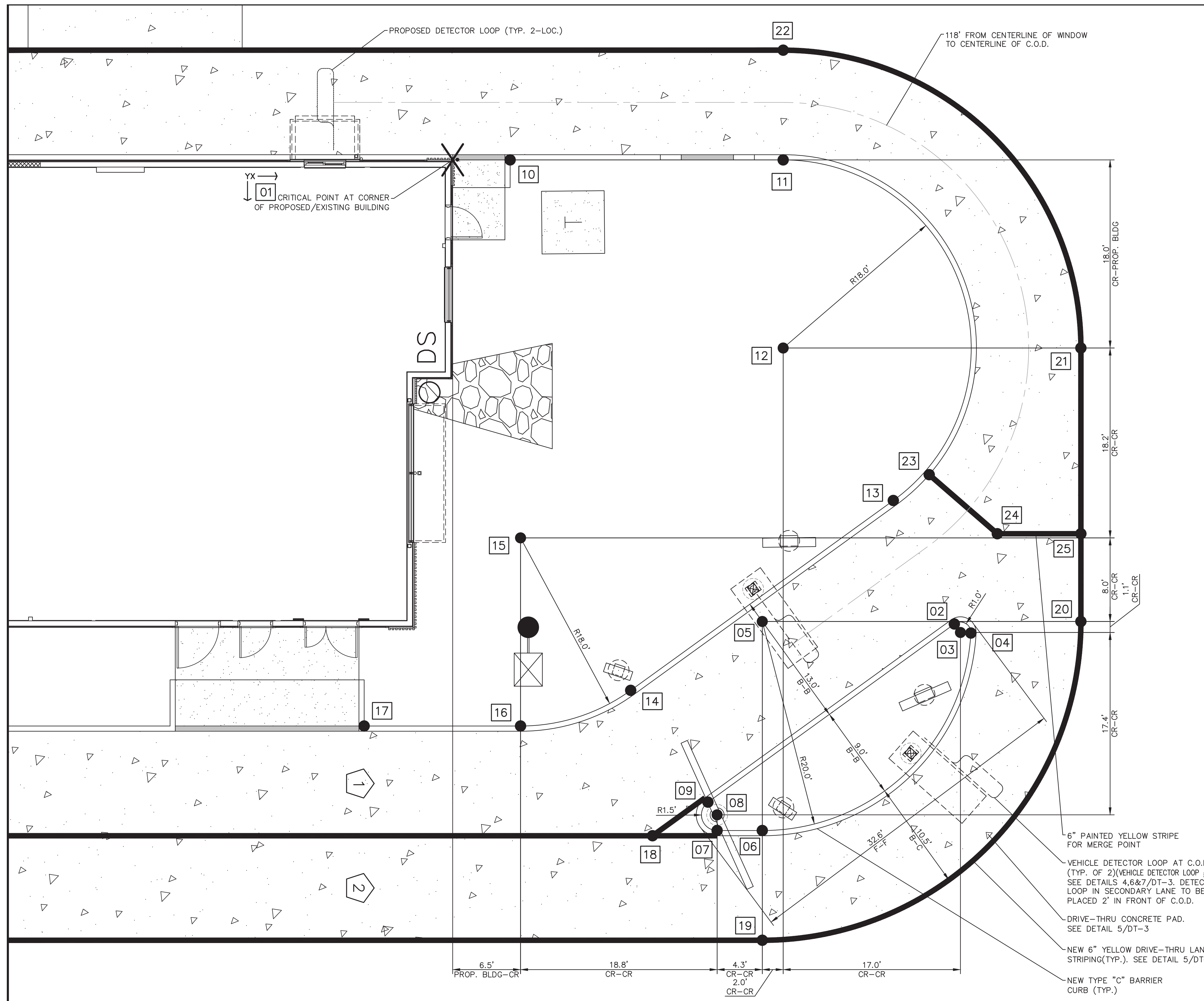


Regional Drawing
 # 48-1082

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES	
SCALE	1"=20' 0"
DRAWN BY	CLB
POINT-BY-POINT FOOTCANDLE PLOT FOR MCDONALDS Fitchburg, WI	
NATIONAL STORE NUMBER	43262
DATE	10/18/2024
DRAWING NUMBER	A242316C.AGI

1. THIS LIGHTING DESIGN IS BASED ON INFORMATION SUPPLIED BY OTHERS TO SECURITY LIGHTING SYSTEMS. SITE DETAILS PROVIDED HEREON ARE REPRODUCED ONLY AS A VISUALIZATION AID. FIELD DEVIATIONS MAY SIGNIFICANTLY AFFECT PREDICTED PERFORMANCE. PRIOR TO INSTALLATION, CRITICAL SITE INFORMATION (POLE LOCATIONS, ORIENTATION, MOUNTING HEIGHT, ETC.) SHOULD BE COORDINATED WITH THE CONTRACTOR AND/OR SPECIFIER RESPONSIBLE FOR THE PROJECT.
 2. LUMINAIRE DATA IS TESTED TO INDUSTRY STANDARDS UNDER LABORATORY CONDITIONS. OPERATING VOLTAGE AND NORMAL MANUFACTURING TOLERANCES OF LAMP, BALLAST, AND LUMINAIRE MAY AFFECT FIELD RESULTS.
 3. CONFORMANCE TO FACILITY CODE AND OTHER LOCAL REQUIREMENTS IS THE RESPONSIBILITY OF THE OWNER AND/OR THE OWNER'S REPRESENTATIVE.
 4. THIS LAYOUT MAY NOT MEET TITLE 24 OR LOCAL ENERGY REQUIREMENTS. IF THIS LAYOUT NEEDS TO BE COMPLIANT WITH TITLE 24 OR OTHER ENERGY REQUIREMENTS, PLEASE CONSULT FACTORY WITH SPECIFIC DETAILS REGARDING PROJECT REQUIREMENTS SO THAT REVISIONS MAY BE MADE TO THE DRAWING.

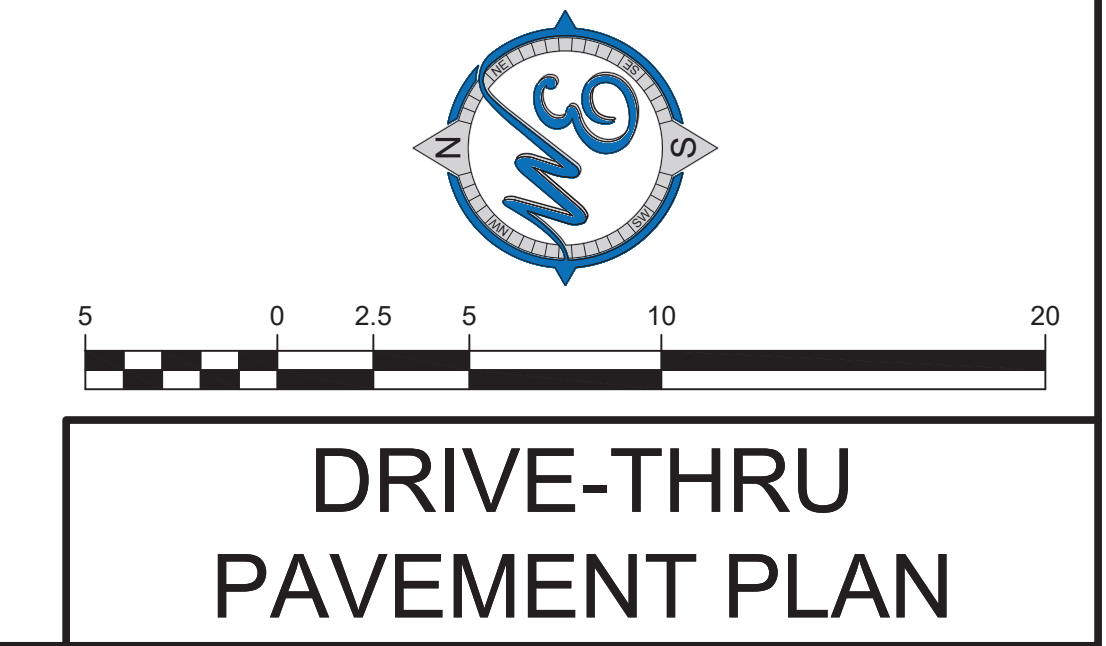
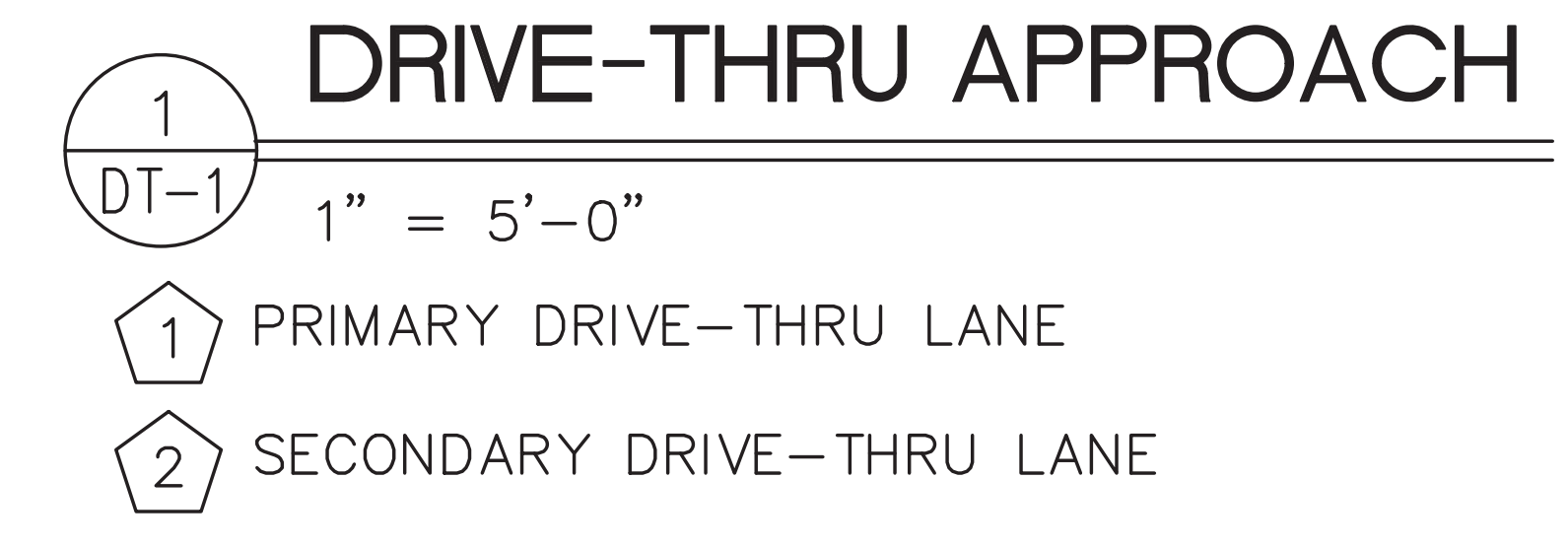
THIS DRAWING MEETS OR EXCEEDS MCDONALDS CURRENT ILLUMINATION SPECIFICATIONS OF A 3-4 FOOTCANDLE AVERAGE, UNLESS SUPERSEDED BY OTHER REQUIREMENTS.



- GENERAL NOTES:**
1. THE REGIONAL CONSTRUCTION MANAGER IS TO REVIEW AND APPROVE ALL DRIVE-THRU LAYOUTS. A DRIVE-THRU IS FINAL, AND CONSIDERED "RED", ONCE APPROVED. NO CHANGES ARE TO BE MADE AFTER THIS POINT.
 2. DUE TO THE EXACT GEOMETRY REQUIRED FOR THE EFFICIENT OPERATION OF THIS DRIVE-THRU LAYOUT, IT IS RECOMMENDED THAT ALL DRIVE-THRU EQUIPMENT AND PAVEMENT IMPROVEMENTS TO BE FIELD LOCATED BY A LICENSED SURVEYOR.
 3. THE PLACEMENT OF THE CODs AND ANY ADDITIONAL SIGNAGE SHOULD BE SUCH THAT IT PREVENTS, OR MINIMIZES, BLOCKING THE CUSTOMER'S VIEW OF THE MENU BOARD WHILE ORDERING.
 4. THESE DIMENSIONS ARE CRITICAL TO THE FUNDAMENTAL LAYOUT OF THE SIDE BY SIDE DESIGN.
 5. IF DIMENSIONS ARE MODIFIED CONTACT DESIGN ENGINEER IMMEDIATELY.
 6. VERIFY WITH SUPPLIER OF DRIVE-THRU EQUIPMENT THAT MOST CURRENT EQUIPMENT IS BEING UTILIZED.

COORDINATES

Pavement				DESCRIPTION
	X	Y		
1	0.00'	0.00'		CRITICAL STARTING POINT FOR ALL COORDINATES
2	48.03'	44.41'		TO BACK OF CURB AT START OF RADIUS
3	48.61'	45.22'		TO CENTER OF RADIUS (1.00')
4	49.61'	45.27'		TO BACK OF CURB AT END OF RADIUS
5	29.64'	44.17'		TO CENTER OF RADIUS (20.00')
6	29.64'	64.17'		TO BACK OF CURB AT START OF RADIUS
7	25.32'	64.17'		TO BACK OF CURB AT END OF RADIUS
8	25.32'	62.67'		TO CENTER OF RADIUS (1.50')
9	24.44'	61.45'		TO BACK OF CURB AT START OF RADIUS
10	5.50'	0.00'		TO BACK OF CURB AT START OF RADIUS
11	31.64'	0.00'		TO BACK OF CURB AT END OF RADIUS
12	31.64'	18.00'		TO CENTER OF RADIUS (18.00')
13	42.18'	32.59'		TO BACK OF CURB AT START OF RADIUS
14	17.04'	50.76'		TO BACK OF CURB AT END OF RADIUS
15	6.50'	36.17'		TO CENTER OF RADIUS (18.00')
16	6.50'	54.17'		TO BACK OF CURB AT START OF RADIUS
17	-8.47'	54.17'		TO BACK OF CURB AT END OF RADIUS
18	19.13'	64.67'		TO STRIPING/CONCRETE
19	29.64'	74.67'		TO STRIPING/CONCRETE
20	60.14'	44.17'		TO STRIPING/CONCRETE
21	60.14'	18.00'		TO STRIPING/CONCRETE
22	31.64'	-10.50'		TO STRIPING/CONCRETE
23	45.62'	30.12'		TO MERGE POINT STRIPING
24	52.14'	35.77'		TO MERGE POINT STRIPING
25	60.14'	35.77'		TO MERGE POINT STRIPING



DATE: _____

NO. _____

Prepared For: _____

McDonald's
110 N. Carpenter St.
Chicago, IL 60607

McDonald's - FITCHBURG, WI
NWC of McKee Road and Fitchrona Road
Fitchburg, Wisconsin

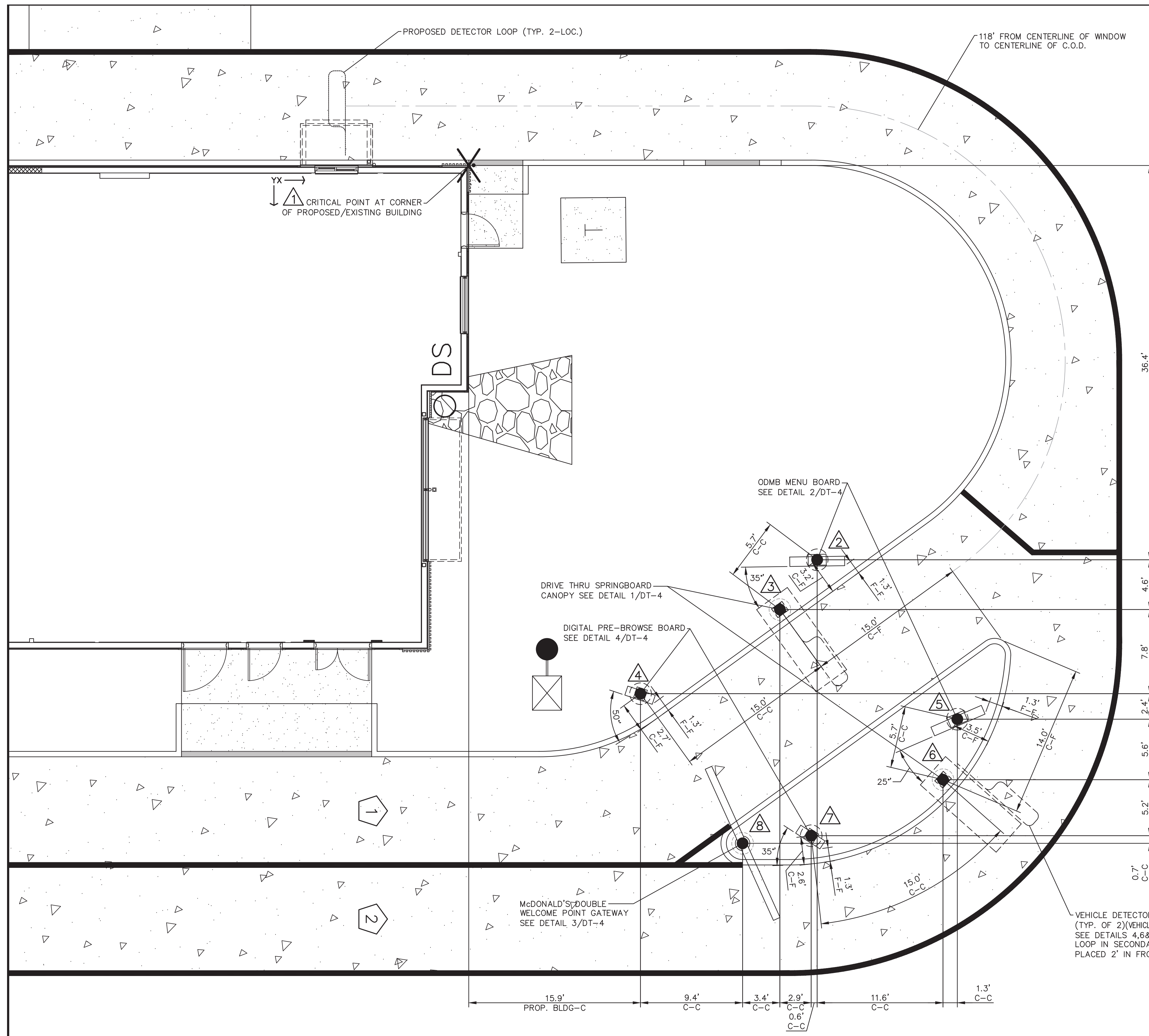
Prepared By: _____

Watermark Engineering Resources
watermark-engineering.com | 2631 Ginger Woods Pkwy | Aurora, IL 60502 | (630) 975-1800

CHECKED BY: J. MILLER
DESIGN BY: D. OLSON
DRAWN BY: JOSH MILLER
DATE: DECEMBER 3, 2024
SCALE: 1" = 5'
PROJECT NO.: 24-001

DT-1
LC #48-1082

DRIVE-THRU PAVEMENT PLAN



- GENERAL NOTES:**
1. THE LOCATION AND ORIENTATION OF MENU BOARDS WERE DETERMINED BY THE SIGHT LINES OF THE CARS. THE CARS WERE POSITIONED ACCORDING TO THE MAX. AMOUNT OF CARS DURING A PEAK PERIOD. ALL DIMENSIONS SHOWN ARE BASED UPON PROTOTYPICAL LAYOUTS SHOWN. ACTUAL DIMENSIONS TO BE BASED ON SITE SPECIFIC CONFIGURATIONS AND THE REQUIREMENTS OF NOTE 2.
 2. THE MEASUREMENT GIVEN FROM THE CENTER OF THE SPRINGBOARD CANOPY TO THE CENTER OF THE PRE-BROWSE BOARD IS MEASURED ALONG THE FACE OF CURB.
 3. PROVIDE TWO CIRCUITS FOR MENU BOARD AND PRE-VIEW BOARDS. ONE CIRCUIT FOR LIGHTS AND ONE CIRCUIT WITH LOCK FOR MOTOR AND CONTROLLER. REFER TO ARCHITECTURAL/ELECTRICAL PLANS FOR TERMINATION OF CONDUIT RUNS INSIDE BUILDING.
 4. ALL GALVANIZED ANCHOR BOLTS TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR.
 5. PLACEMENT NOTE: THE PLACEMENT OF THE CUSTOMER ORDER DISPLAY SHOULD BE SUCH THAT IT DOES NOT BLOCK THE VIEWING OF THE MENU BOARD FROM THE DRIVER'S VANTAGE POINT.
 6. VERIFICATION NOTE: VERIFY ALL DRIVE-THRU EQUIPMENT WITH McDONALD'S PROJECT MANAGER AND OPERATIONS MANAGER BEFORE PROCEEDING.
 7. THE REGIONAL CONSTRUCTION MANAGER IS TO REVIEW AND APPROVE ALL DRIVE-THRU LAYOUTS. A DRIVE-THRU IS FINAL, AND CONSIDERED "RED", ONCE APPROVED. NO CHANGES ARE TO BE MADE AFTER THIS POINT.
 8. DUE TO THE EXACT GEOMETRY REQUIRED FOR THE EFFICIENT OPERATION OF THIS DRIVE-THRU LAYOUT, IT IS RECOMMENDED THAT ALL DRIVE-THRU EQUIPMENT AND PAVEMENT IMPROVEMENTS TO BE FIELD LOCATED BY A LICENSED SURVEYOR.
 9. THE PLACEMENT OF THE CODs AND ANY ADDITIONAL SIGNAGE SHOULD BE SUCH THAT IT PREVENTS, OR MINIMIZES, BLOCKING THE CUSTOMER'S VIEW OF THE MENU BOARD WHILE ORDERING.
 10. THESE DIMENSIONS ARE CRITICAL TO THE FUNDAMENTAL LAYOUT OF THE SIDE BY SIDE DESIGN.
 11. IF DIMENSIONS ARE MODIFIED CONTACT DESIGN ENGINEER IMMEDIATELY.
 12. VERIFY WITH SUPPLIER OF DRIVE-THRU EQUIPMENT THAT MOST CURRENT EQUIPMENT IS BEING UTILIZED.

COORDINATES

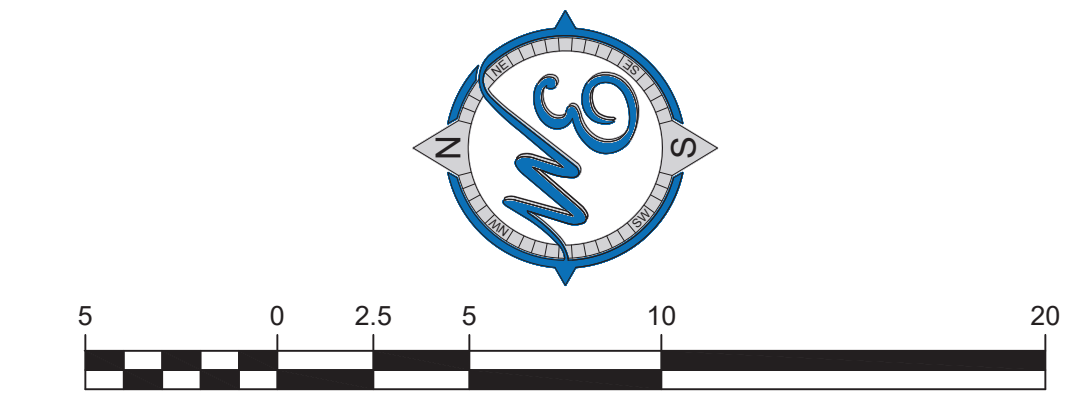
Equipment	X	Y	DESCRIPTION
1	0.00'	0.00'	CRITICAL STARTING POINT FOR ALL COORDINATES
2	32.21'	36.45'	TO CENTER OF ODMB MENU BOARD
3	28.76'	41.05'	TO CENTER OF DRIVE THRU SPRINGBOARD CANOPY
4	15.88'	48.83'	TO CENTER OF DIGITAL PRE-BROWSE BOARD
5	45.17'	51.19'	TO CENTER OF ODMB MENU BOARD
6	43.85'	56.78'	TO CENTER OF DRIVE THRU SPRINGBOARD CANOPY
7	31.66'	61.96'	TO CENTER OF DIGITAL PRE-BROWSE BOARD
8	25.32'	62.67'	TO CENTER OF FOUNDATION OF DOUBLE WELCOME POINT GATEWAY

DRIVE-THRU APPROACH

DT-2 1" = 5'-0"

1 PRIMARY DRIVE-THRU LANE

2 SECONDARY DRIVE-THRU LANE



DRIVE-THRU EQUIPMENT PLAN

DATE: _____

NO. _____

REVISIONS: _____

Prepared For: _____

McDonald's
110 N. Carpenter St.
Chicago, IL 60607

McDONALD'S - FITCHBURG, WI
NWC of McKee Road and Fitchrona Road
Fitchburg, Wisconsin

Prepared By: _____

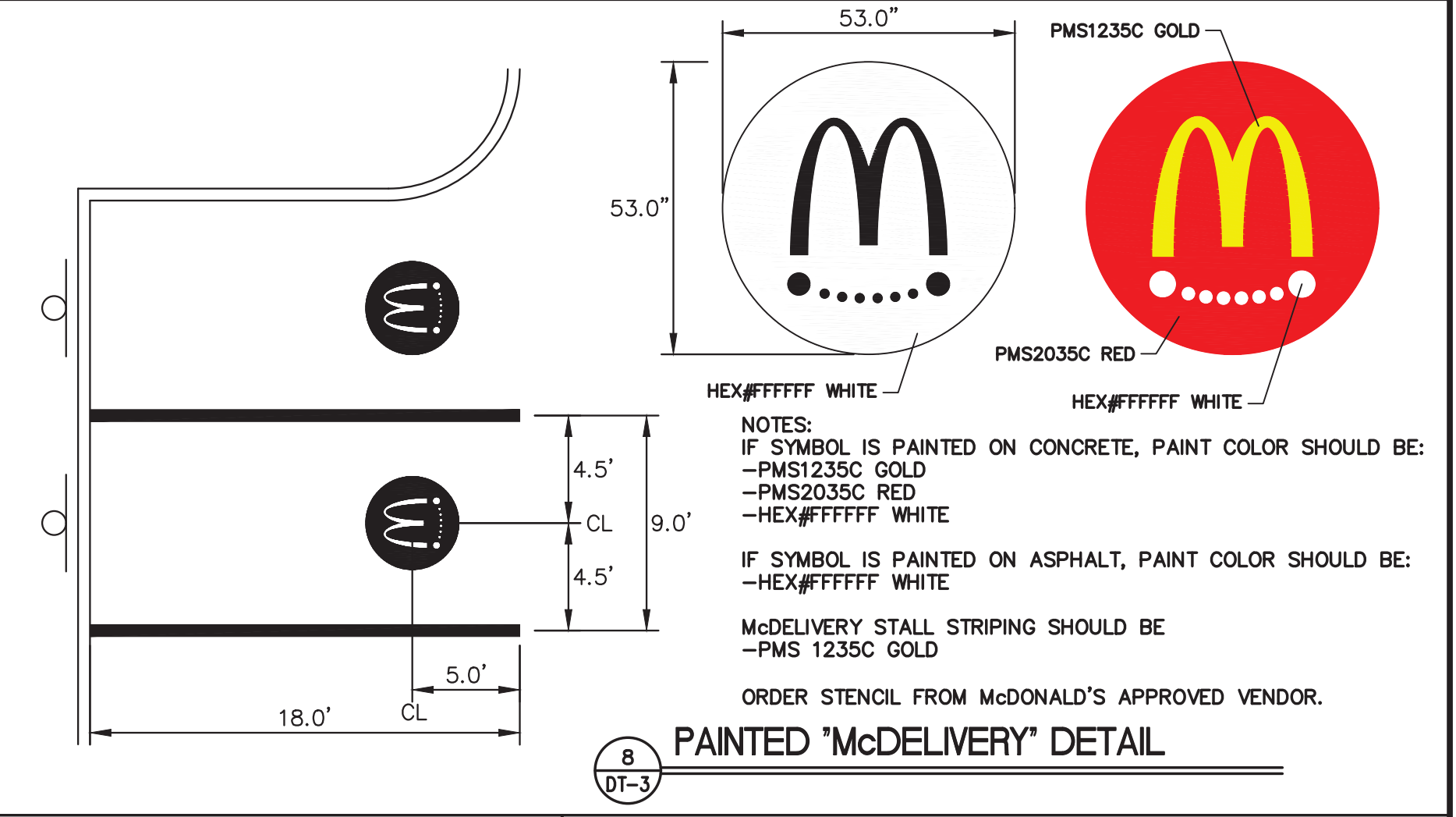
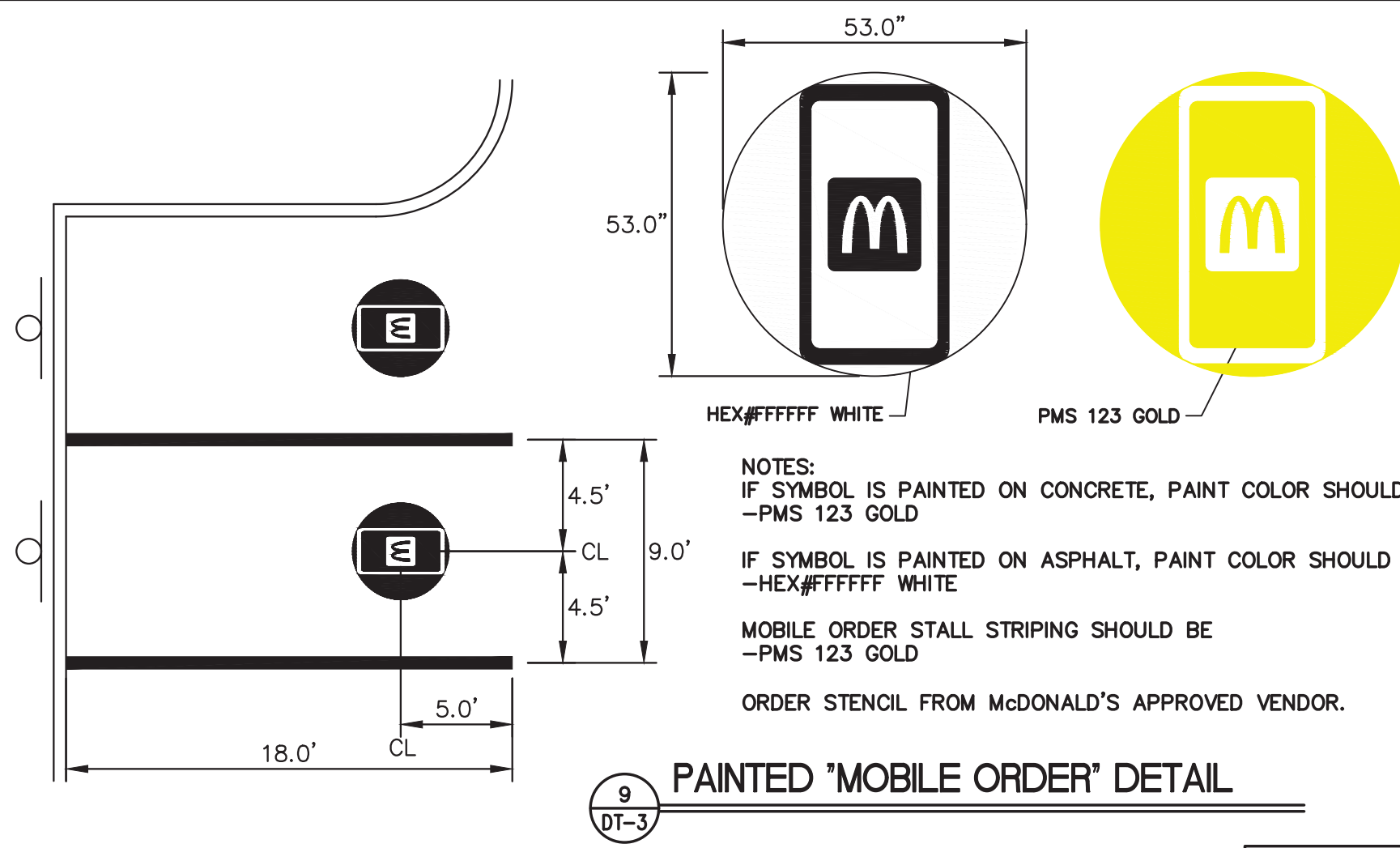
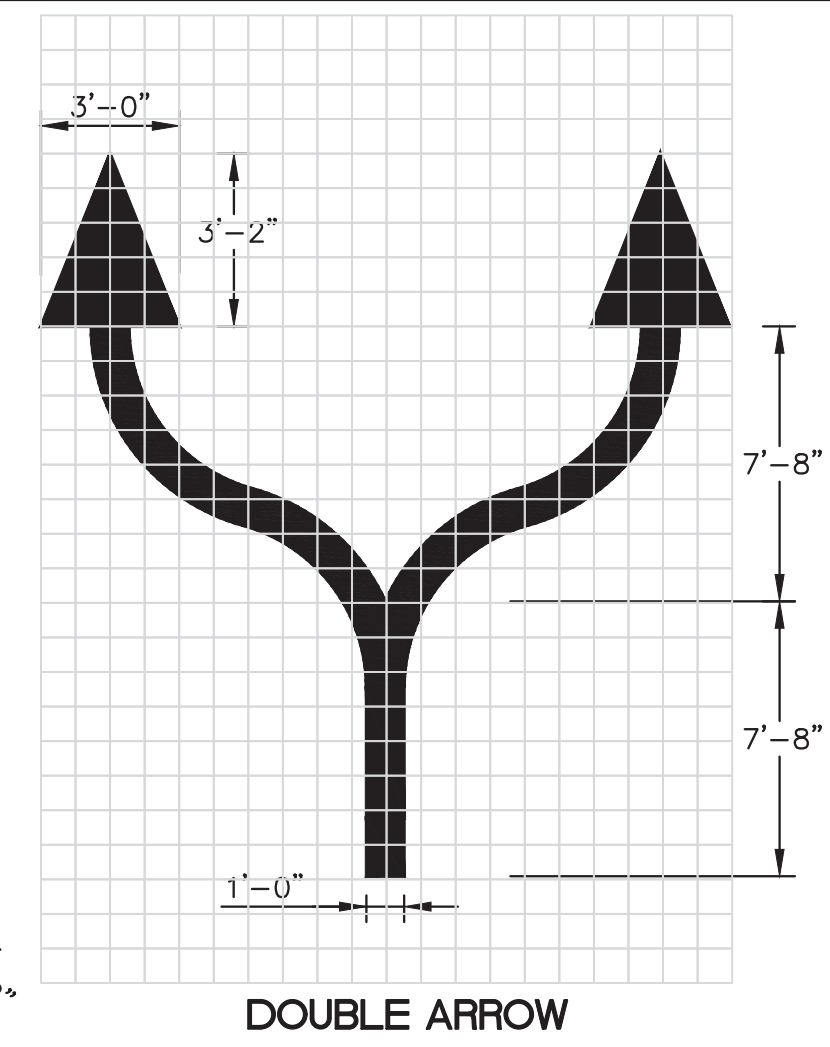
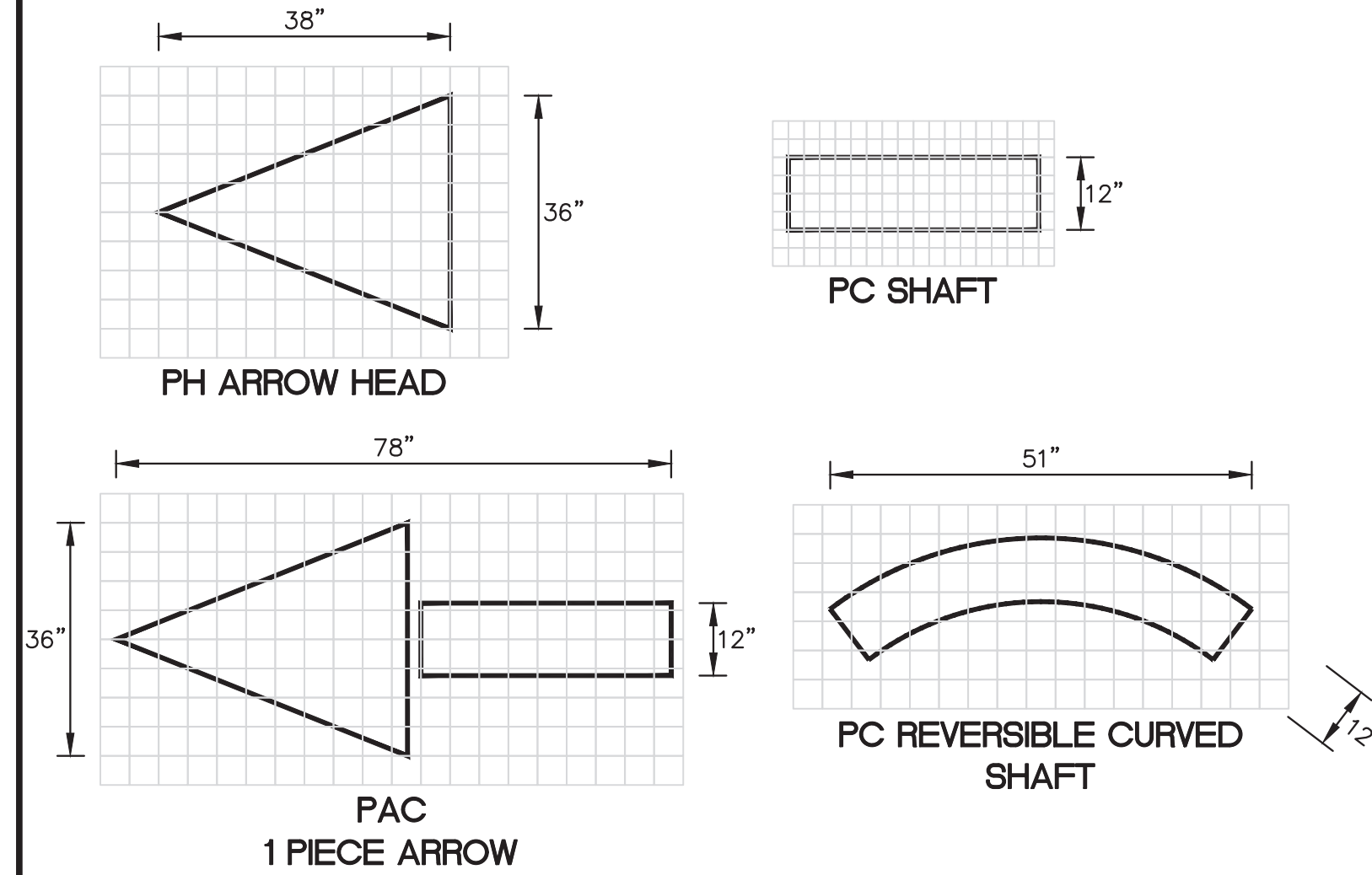
Watermark Engineering Resources
watermark-engineering.com | 2631 Ginger Woods Pkwy | Aurora, IL 60502 | (630) 975-1800

CHECKED BY: J. MILLER
DESIGN BY: D. OLSON
DRAWN BY: JOSH MILLER
DATE: DECEMBER 3, 2024
SCALE: 1" = 5'
PROJECT NO.: 24-001

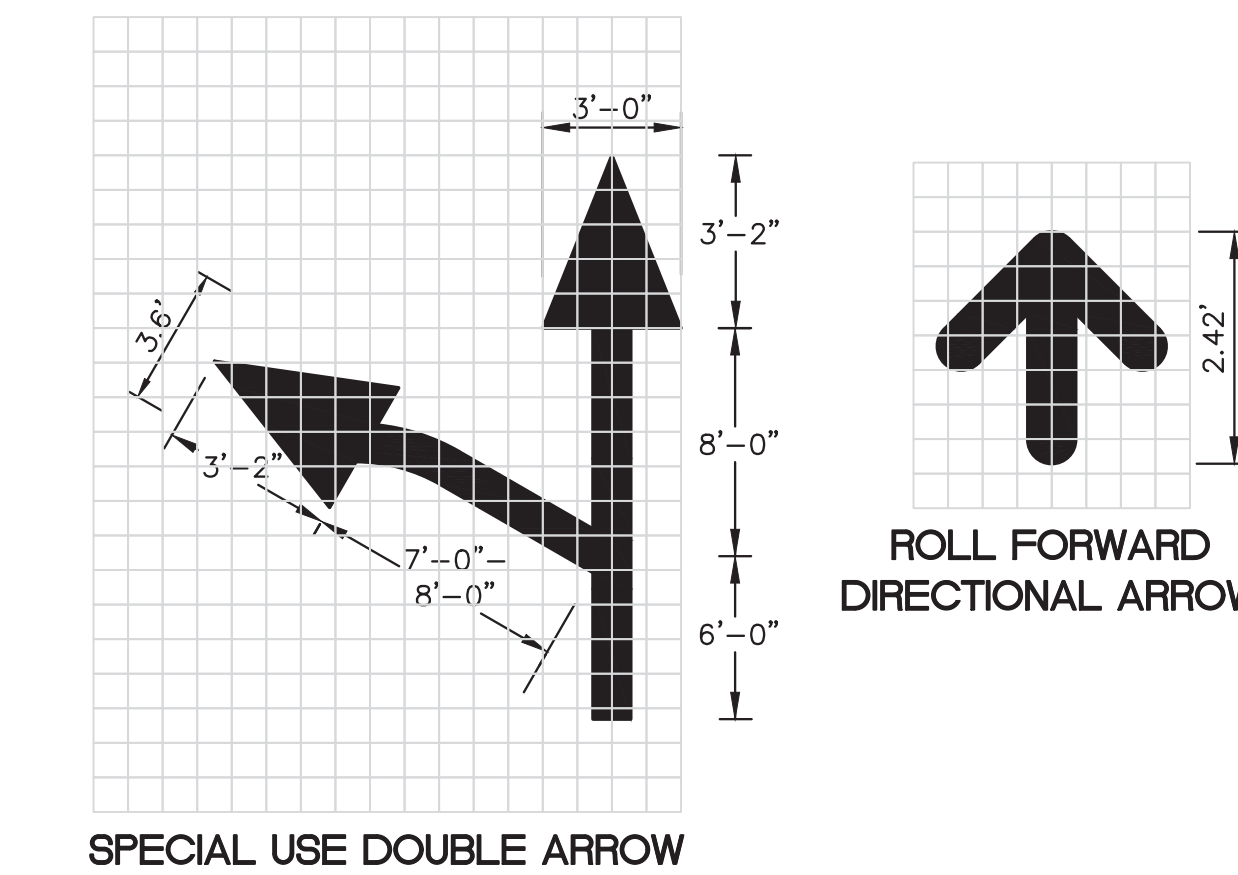
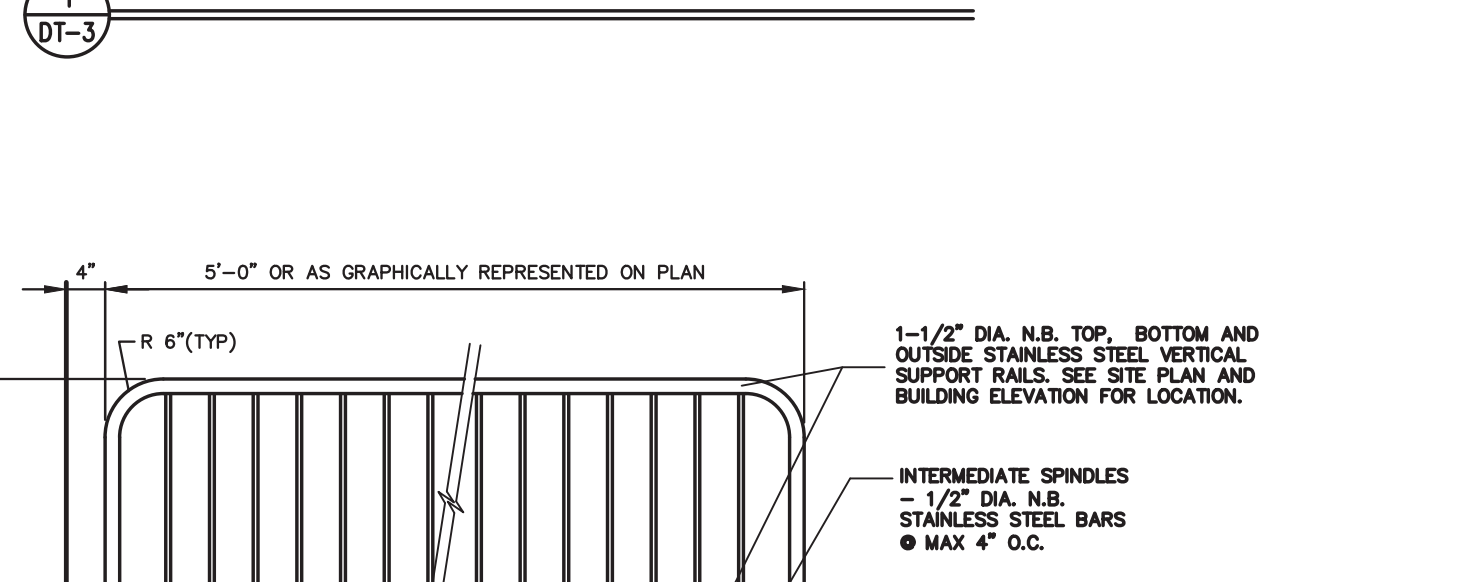
DT-2
LC #48-1082

DRIVE-THRU EQUIPMENT PLAN

PARKING LOT ARROWS (MEETS NO STATE OR FEDERAL DESIGN STANDARDS)



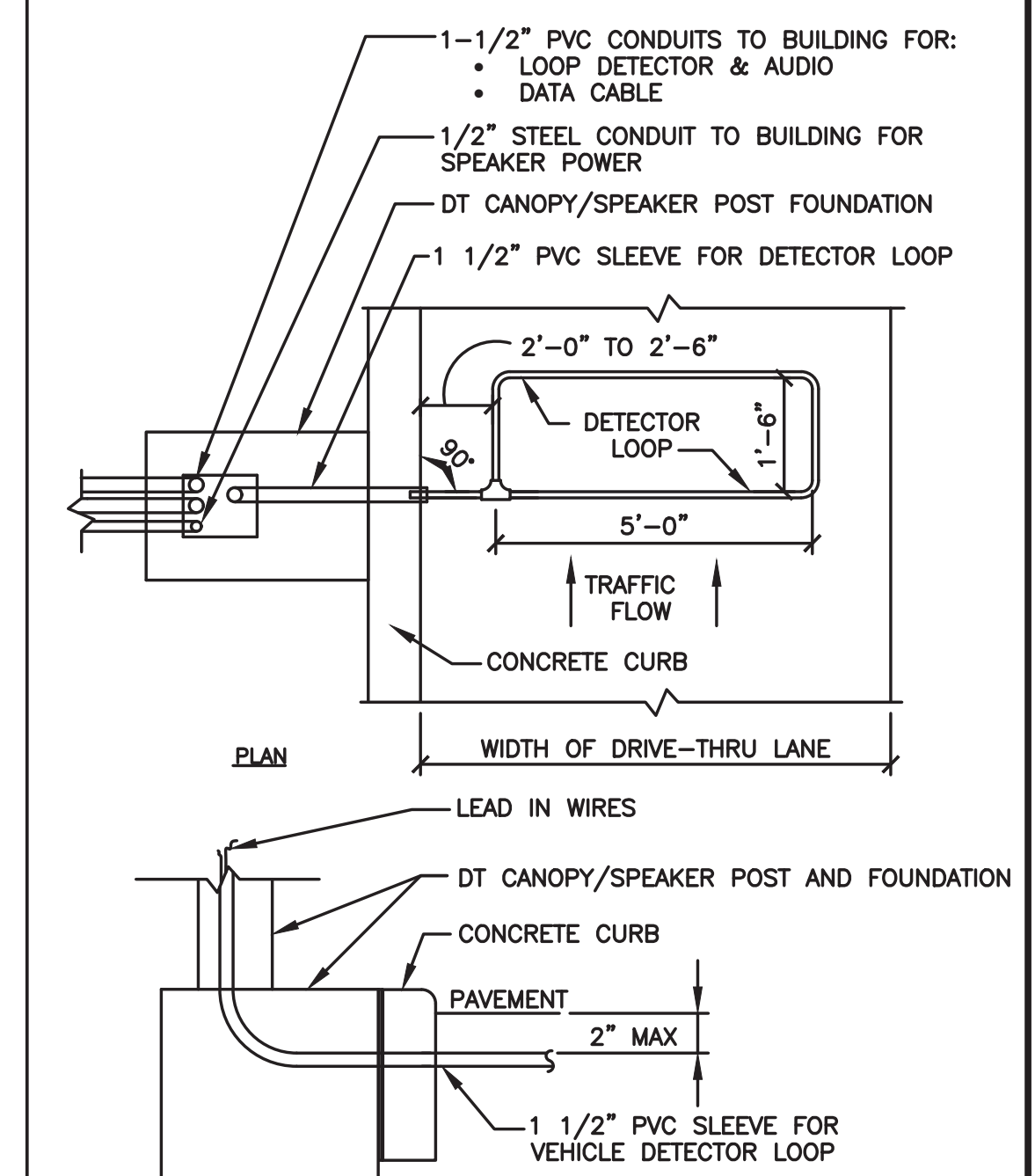
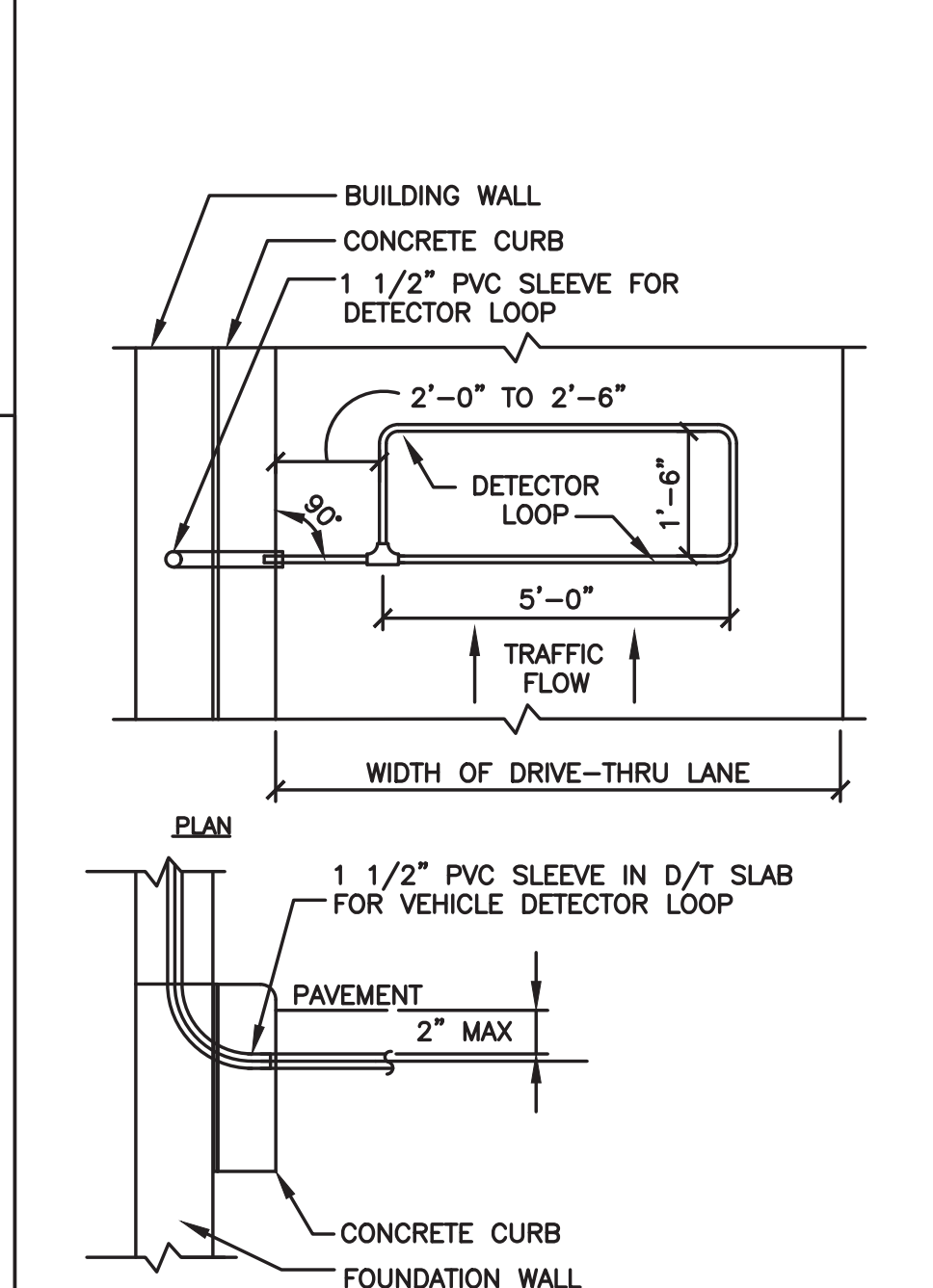
TYPICAL PAVEMENT MARKING DETAILS



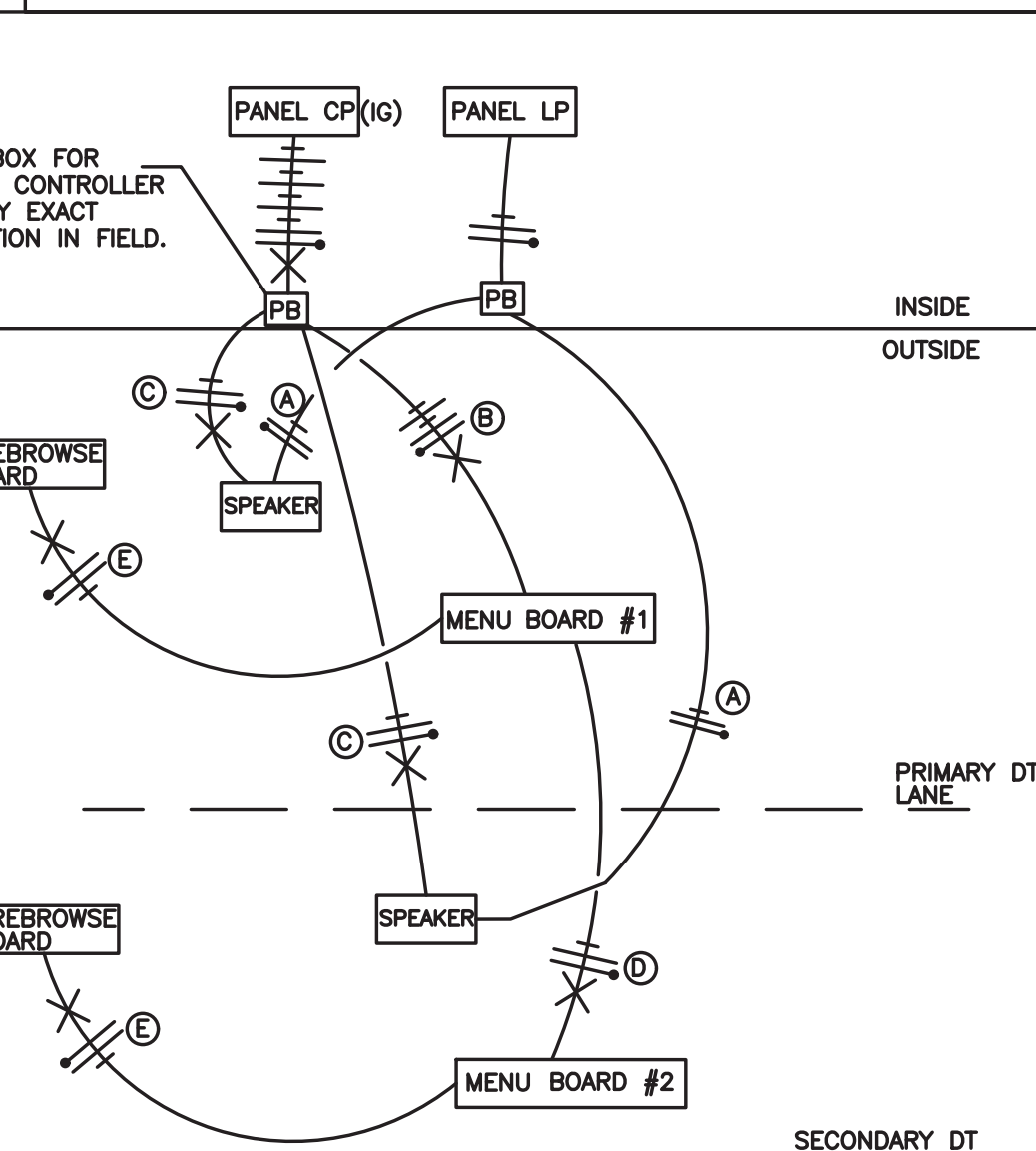
NOTES

1. VERIFY CONDUIT SIZES AND LAYOUT WITH DETECTOR LOOP MANUFACTURER.
2. CENTER VEHICLE DETECTOR LOOP IN DRIVE THRU LANE. INSTALL PER MFR. RECOMMENDATIONS.
3. NO STEEL (REBAR OR ELECTRICAL WIRE) SHALL BE USED WITHIN 2' OF LOOP.
4. **DETECTOR LOOP MANUFACTURERS:** DETECTOR LOOPS MAY BE BY ONE OF THE FOLLOWINGS COMPANIES OR EQUAL.
JM: 1-800-328-0033
HME: 1-800-848-4468
5. **DETECTOR LOOP MATERIAL:** PVC TUBING 1/2" I.D., 100 PSI LOOP MADE FROM ONE LENGTH OF THIN FOURTEEN GAUGE STRANDED WIRE. LEAD-IN IS PRE-TWISTED AT FACTORY.
6. **DETECTOR LOOP CONSTRUCTION:** FORMED WITH ONE CONTINUOUS LENGTH OF PVC WITH NO SHARP CORNERS AS DETAILED. WIRE LOOPED, FORMED, & PIGTAILED AS DETAILED.

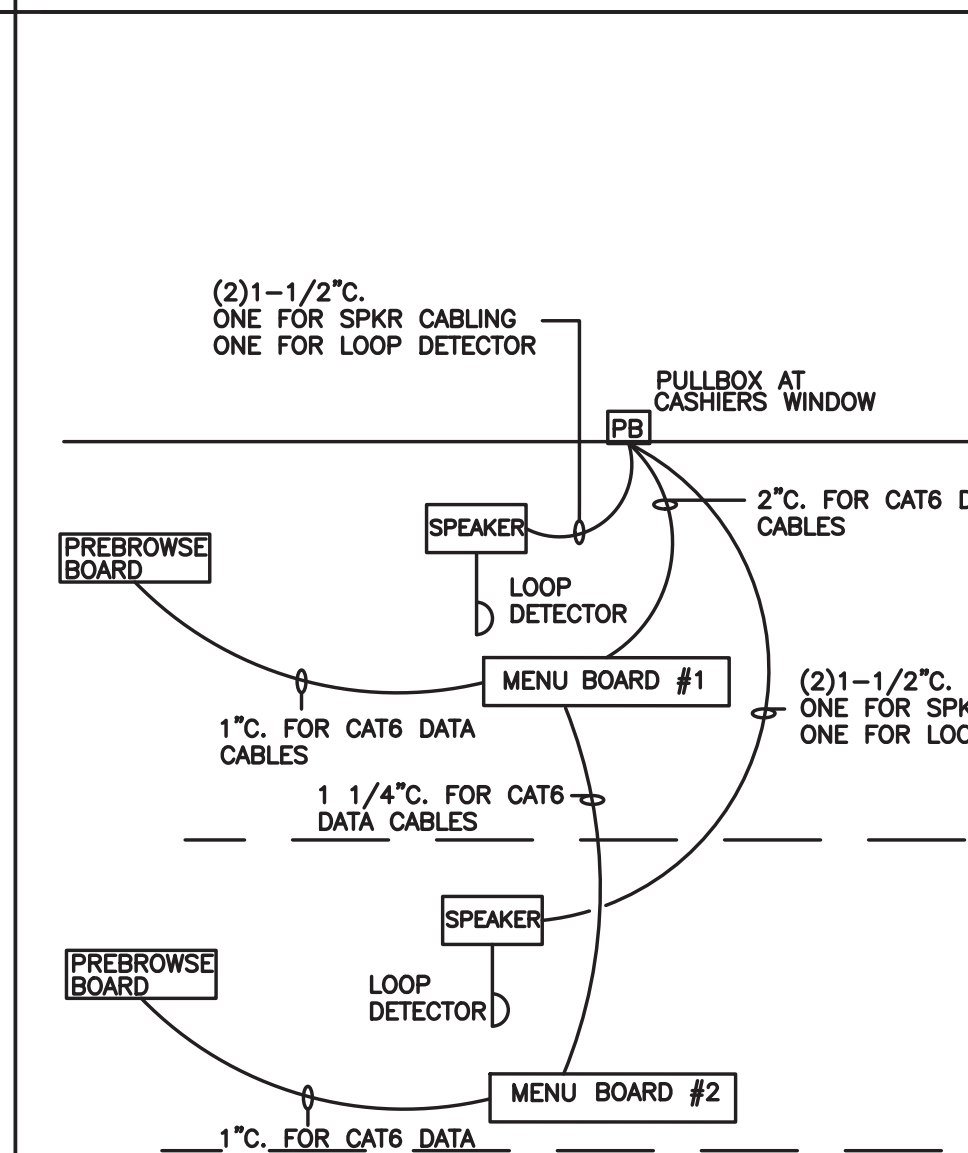
DETECTOR LOOP DETAILS



DRIVE THRU POWER DIAGRAM



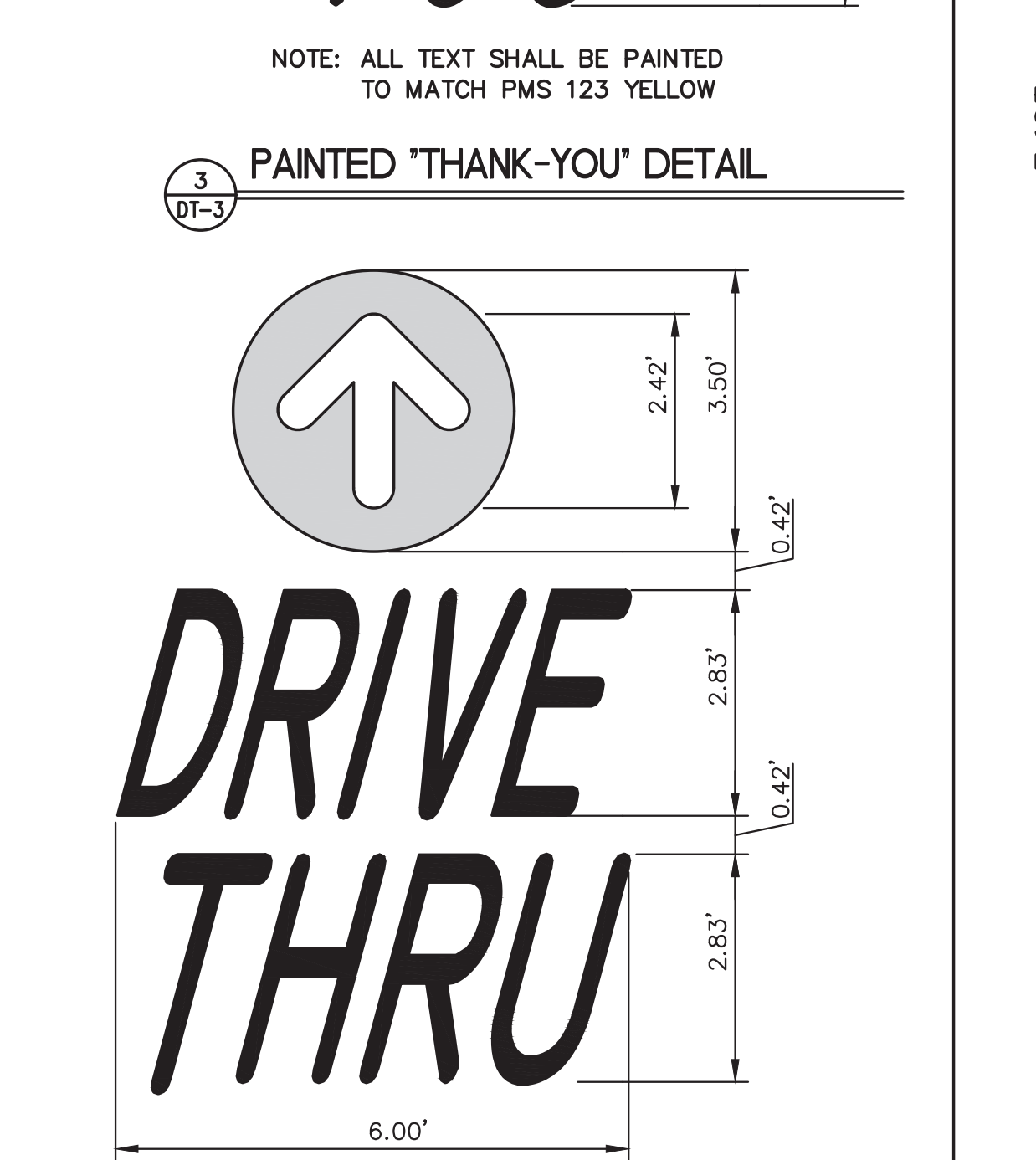
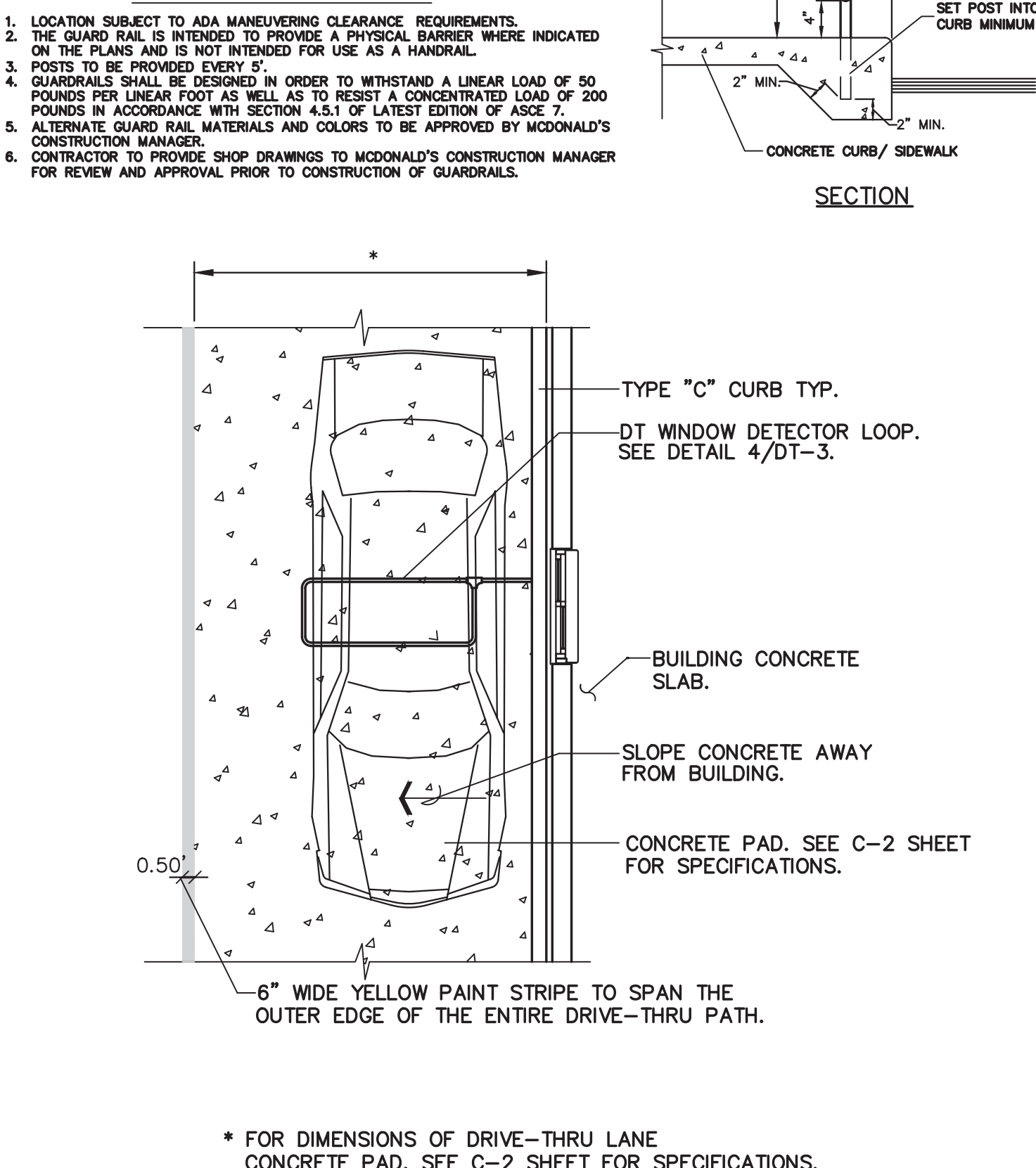
DT LOW VOLTAGE CONDUIT DIAGRAM



NOTE:

- * VERIFY EXACT CIRCUITS & QUANTITIES OF CIRCUITS WITH PANEL SCHEDULES AND MANUFACTURERS INSTALLATION INSTRUCTIONS.
- FOR EXISTING LOCATIONS:
 - * VERIFY EXISTING CP PANEL HAS AMPACITY AND SUFFICIENT SPARES/SPACE FOR TWO (2) NEW 20A/1P CIRCUITS. UPGRADE CP PANEL TO 42 CIRCUITS IF NECESSARY.
 - * VERIFY EXISTING PULLBOXES ARE SIZED FOR NEW CONDUIT ROUTING. MODIFY PULLBOXES IF NECESSARY.
- Ⓐ 2#12 & 1#12 GND. TO LP-1 FOR COD CANOPY LIGHTING.
- Ⓑ 4#12 & 1#12 GND & 1#12 ISOLATED GND. TO CP FOR ISOLATED GROUND POWER TO MENUBOARDS AND MEDIA PLAYERS.
- Ⓒ 2#12 & 1#12 GND & 1#12 ISOLATED GND. TO CP FOR ISOLATED GROUND POWER TO COD'S. EACH COD SHALL BE ON ITS OWN SEPARATE CIRCUIT.
- Ⓓ 2#12 & 1#12 GND & 1#12 ISOLATED GND. TO CP FOR ISOLATED GROUND POWER TO MENUBOARDS AND MEDIA PLAYERS.
- Ⓔ 2#12 & 1#12 GND & 1#12 ISOLATED GND. TO CP FOR ISOLATED GROUND POWER TO FOR PRE-BROWSE BOARDS AND MEDIA PLAYER.

DRIVE-THRU CONCRETE PAD DETAIL



DRIVE-THRU DETAILS

DT-3

DRIVE-THRU DETAILS

DT-3

DRIVE-THRU DETAILS

DT-3

McDonald's
110 N. Carpenter St.
Chicago, IL 60607

McDonald's - FITCHBURG, WI
NWC of McKee Road and Fitchrona Road
Fitchburg, Wisconsin

Prepared For:

Prepared By:

Watmark Engineering Resources
watermark-engineering.com | 2631 Ginger Woods Pkwy | Aurora, IL 60502 | (830) 375-1800

CHECKED BY: J. MILLER
DESIGN BY: D. OLSON
DRAWN BY: JOSH MILLER
DATE: DECEMBER 3, 2024
SCALE: NONE
PROJECT NO.: 24-001

DT-3
LC #48-1082

STRUCTURAL NOTES:

DESIGN CODES:

- IBC 2012
- ASCE 7-10
- AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS," FIFTH EDITION, 2009
- ACI 318-08
- AISC 13TH EDITION
- AWS D1.1

MATERIAL SPECIFICATIONS:

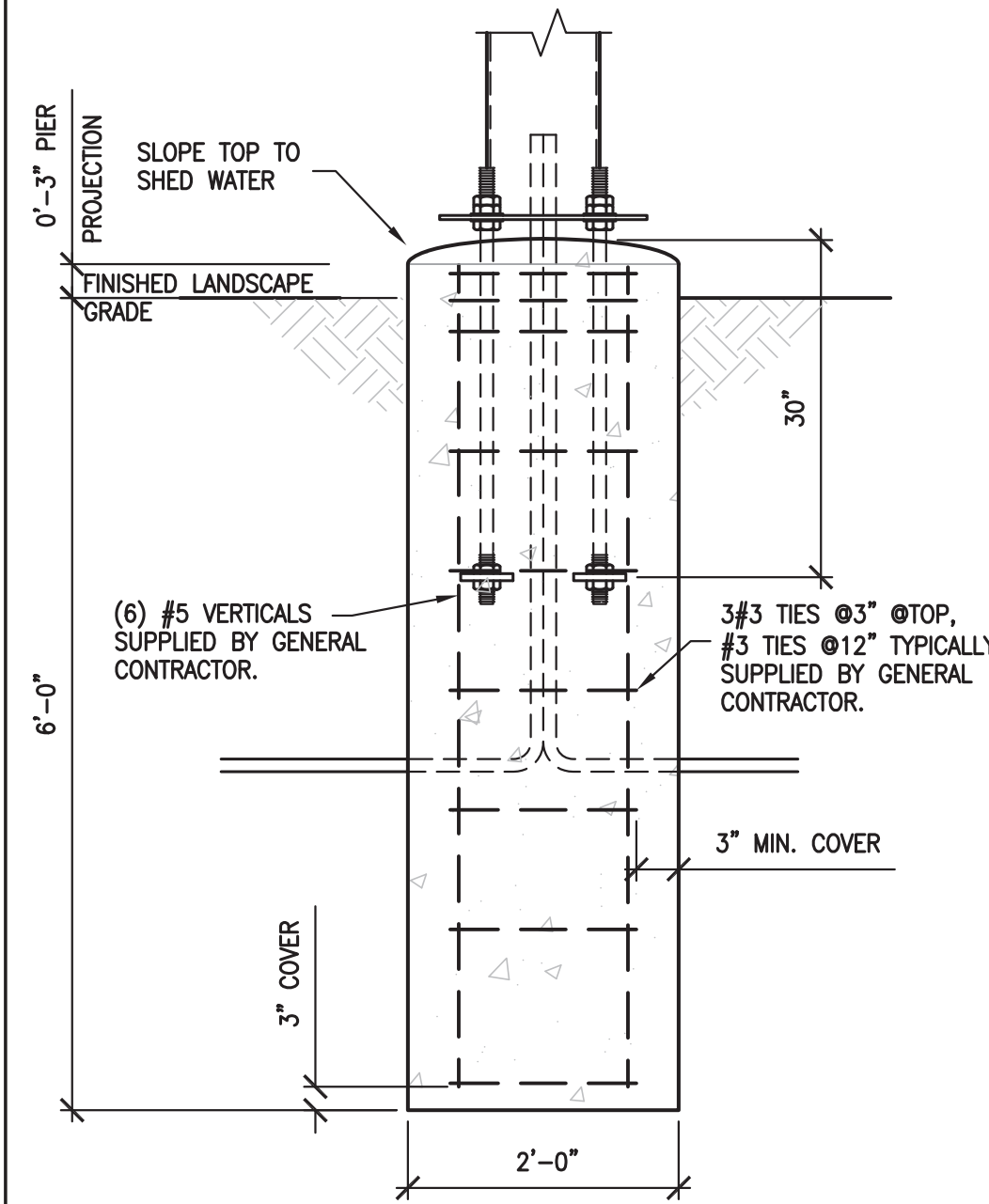
1. CONCRETE COMPRESSIVE STRENGTH (f'_c) SHALL BE A MINIMUM OF 3000psi
2. ANCHOR BOLTS SHALL BE ASTM F1554 GRADE 36 OR GRADE 55, AS NOTED, HOT DIP GALVANIZED PER ASTM F2329
3. REINFORCING STEEL SHALL BE ASTM A615 GRADE 60, SUPPLIED BY GENERAL CONTRACTOR
4. NUTS SHALL BE HEAVY HEX ASTM A563, HOT DIP GALVANIZED PER ASTM A153
5. PLATE SHALL BE ASTM A36, HOT DIP GALVANIZED PER ASTM A153
6. LOCK NUT SHALL BE HOT DIP GALVANIZED PER ASTM A153

FOUNDATION DESIGN PARAMETERS:

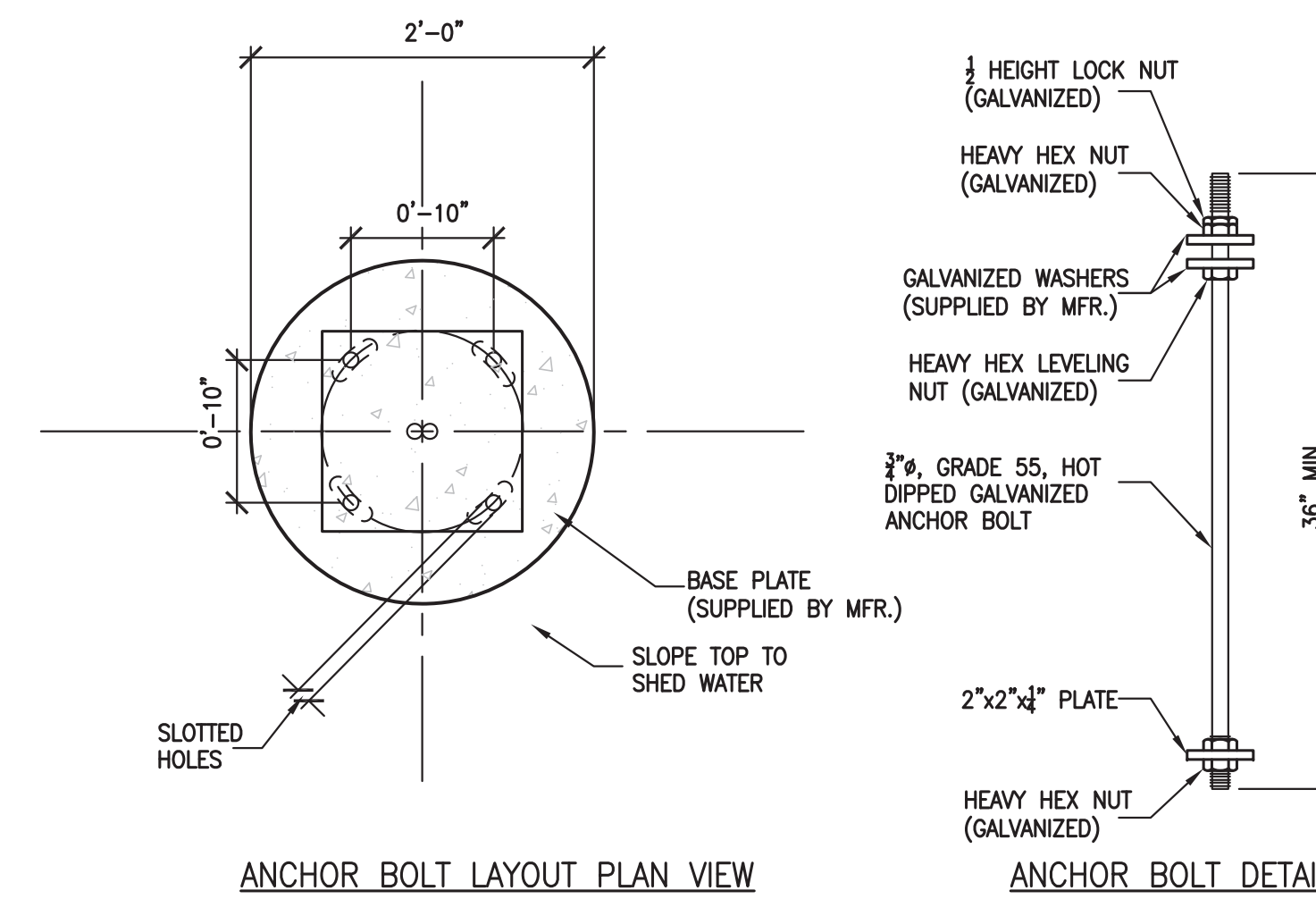
1. ULTIMATE WIND SPEED = 105 MPH
2. MINIMUM REQUIRED SOIL PARAMETERS:
 - COHESIVE SOILS:
 - SHEAR STRENGTH = 750 lbs/ft²
 - 6" MAXIMUM DEPTH OF DISTURBED SOIL OR TOP SOIL
 - COHESIONLESS SOILS:
 - ANGLE OF INTERNAL FRICTION = 27 DEGREES
 - WATER TABLE SHALL BE LOCATED BELOW THE BOTTOM OF THE FOUNDATION
 - 6" MAXIMUM DEPTH OF DISTURBED SOIL OR TOP SOIL
 - MINIMUM ALLOWABLE SOIL BEARING CAPACITY = 3,000 lbs/ft²
3. PRIOR TO FABRICATION OF MATERIALS TO BE USED AT THIS SITE, THE GENERAL CONTRACTOR SHALL EMPLOY A SOILS TESTING AGENCY TO PREPARE A SITE SPECIFIC SOIL REPORT TO ESTABLISH THE SOIL PARAMETERS NOTED ABOVE. IF THE MINIMUM PARAMETERS ARE NOT MET, THIS DESIGN SHALL NOT BE USED.
4. ALL EXCAVATIONS SHALL BE INSPECTED BY A SOILS TESTING AGENCY TO VERIFY THE SITE SOIL CONDITIONS MEET OR EXCEEDED THE PARAMETERS LISTED ABOVE BEFORE THIS DESIGN IS USED.
5. THE ENGINEER OF RECORD SHALL REVIEW THE MAXIMUM BASE REACTIONS AND DESIGN WIND SPEED FOR THE UNIT TO BE INSTALLED TO DETERMINE IF THE FOUNDATION'S MAXIMUM DESIGN LOADS HAVE NOT BEEN EXCEEDED. THIS FOUNDATION DESIGN SHALL NOT BE USED IF THE MAXIMUM DESIGN LOADS OR WIND SPEED HAVE BEEN EXCEEDED.
6. THIS FOUNDATION DESIGN SHALL NOT BE USED IN LOCATIONS WHICH ARE CLOSER THAN 8ft FROM A RETAINING WALL.
7. THIS FOUNDATION DESIGN SHALL NOT BE USED AT LOCATIONS WHERE THE GROUND SLOPE EXCEEDS 4 INCHES PER FOOT.

GENERAL NOTES:

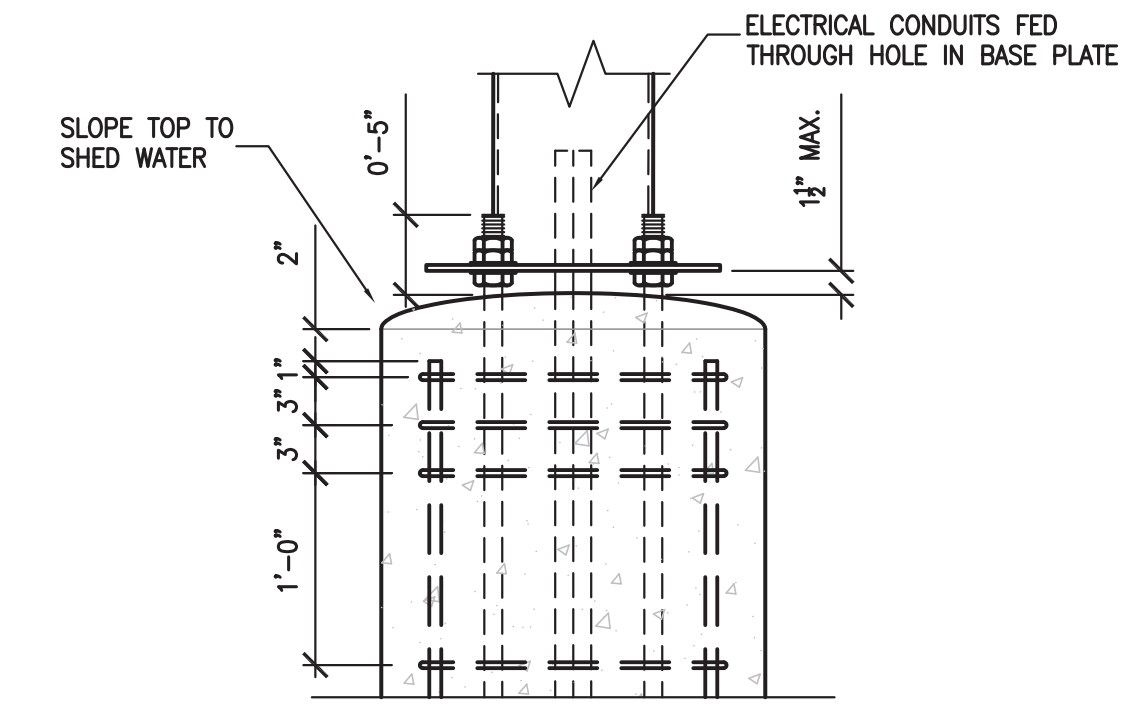
1. PIER DEPTHS SHOWN ARE REQUIRED MINIMUMS. ALL PIERS TO EXTEND TO FROST DEPTH AS DETERMINED BY LOCAL JURISDICTION.
2. TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE.
3. TOP 6" OF SOIL NEGLECTED IN EMBEDMENT DEPTH CALCULATIONS, (EMBEDMENT DEPTHS SHOWN ARE FORM GRADE).
4. PROVIDE 3" MINIMUM CONCRETE COVER TO REINFORCING BARS, UNLESS NOTED OTHERWISE.
5. ALL REINFORCING BY GENERAL CONTRACTOR.
6. ELECTRICAL CONTRACTOR TO PROVIDE INFORMATION ON CONDUIT AND ELECTRICAL REQUIREMENTS.



(A) FOUNDATION SECTION
3/4" = 1'-0"

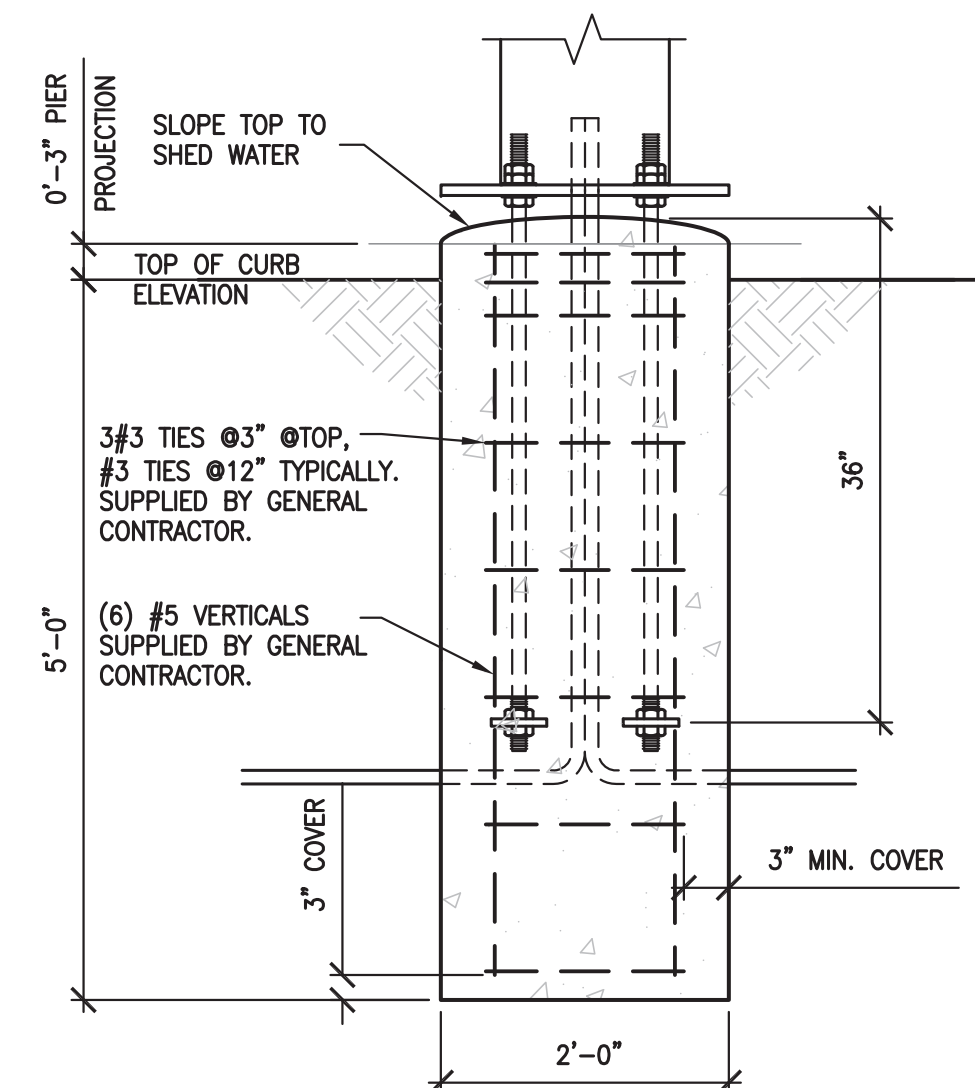


(B) ANCHOR BOLT DETAILS
1" = 1'-0"

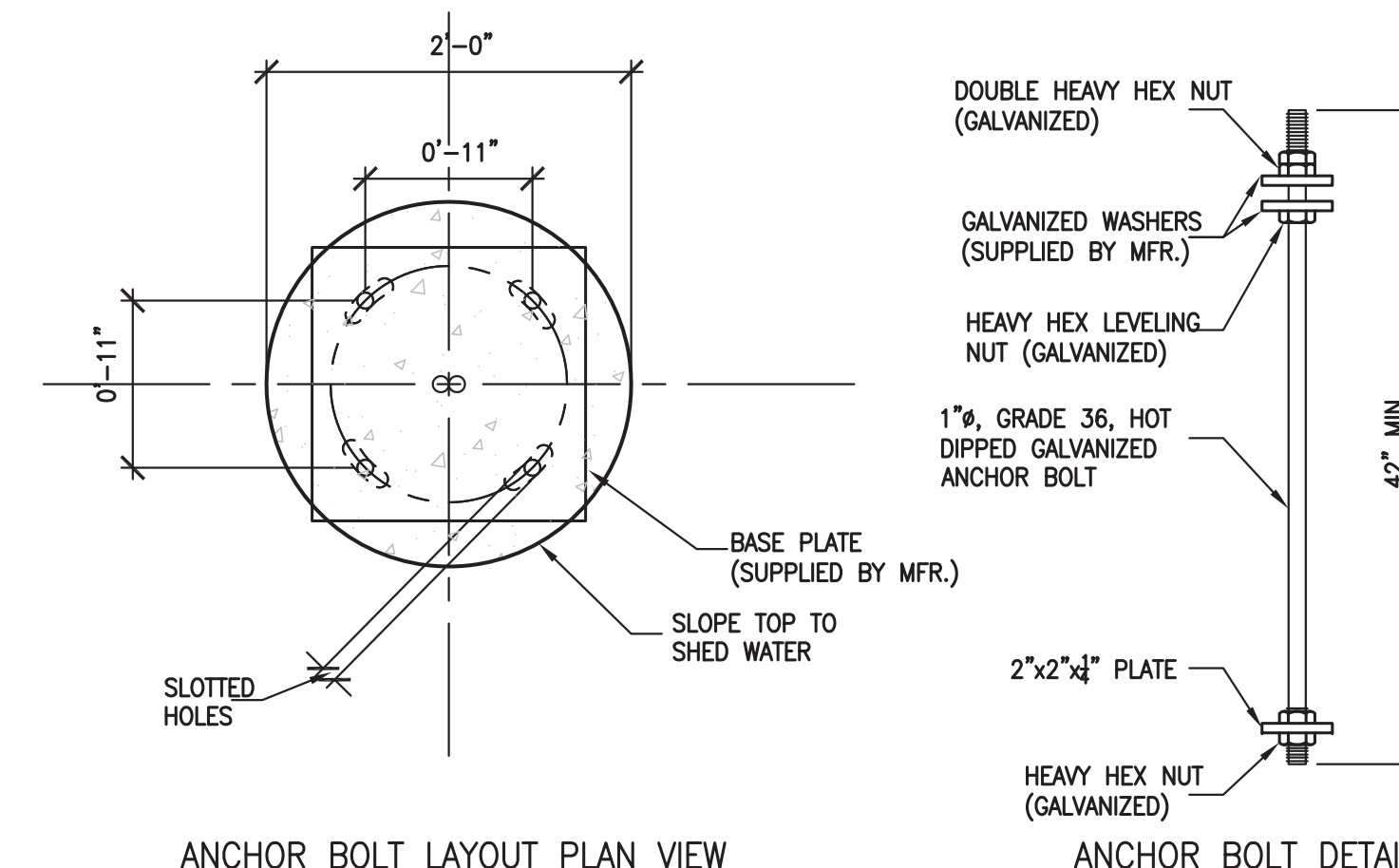


(C) CONNECTION DETAIL
1" = 1'-0"

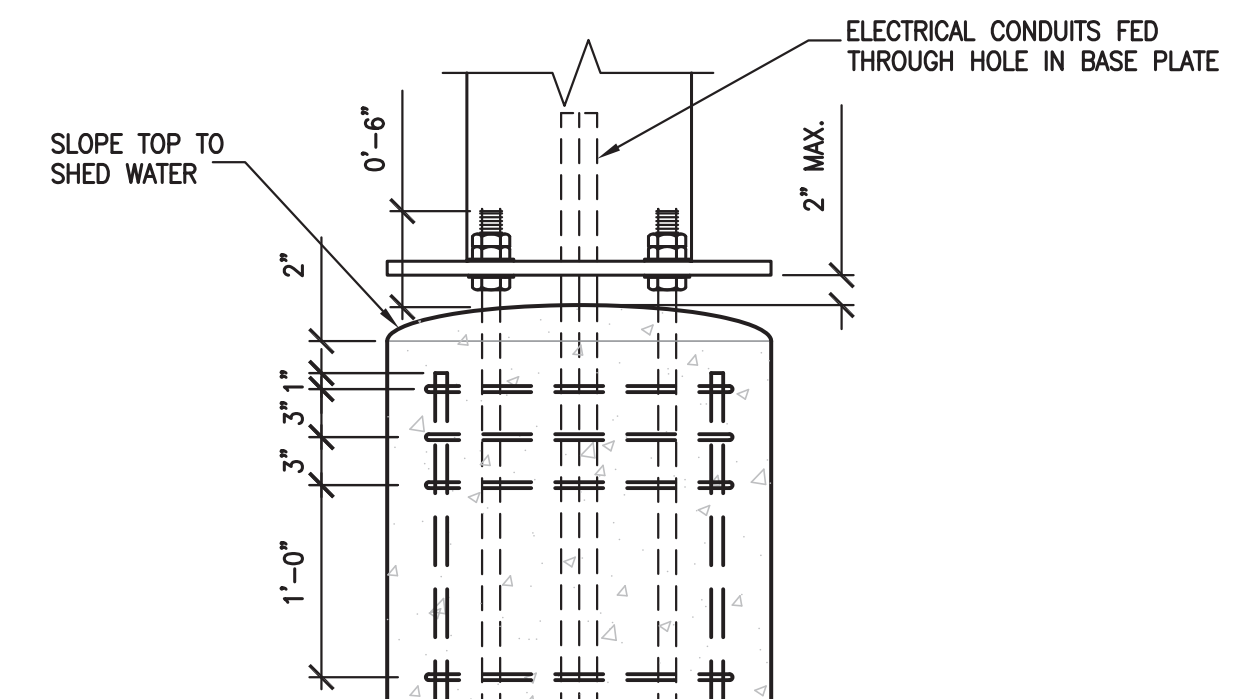
DOUBLE WELCOME POINT GATEWAY FOUNDATION



(A) FOUNDATION SECTION
3/4" = 1'-0"



(B) ANCHOR BOLT DETAILS
1" = 1'-0"



(C) CONNECTION DETAIL
1" = 1'-0"

DRIVE-THRU SPRINGBOARD CANOPY FOUNDATION

NO.	REVISIONS	DATE

Prepared For:

McDonald's
110 N. Carpenter St.
Chicago, IL 60607

McDONALD'S - FITCHBURG, WI
NWC of McKee Road and Fitchrona Road
Fitchburg, Wisconsin

Prepared By:

SAMARTANO AND COMPANY
STRUCTURAL ENGINEERS
1700 WEST CORTLAND STREET
CHICAGO ILLINOIS 60622
312.332.2326

WISCONSIN PROFESSIONAL ENGINEER

EXPIRES: 07/31/26

CHECKED BY: SN
DESIGN BY: GM
DRAWN BY: GM
DATE: DECEMBER 3, 2024
SCALE: NOTED
PROJECT NO.: 24-001

SSD-2

LC #48-1082

WELCOME POINT GATEWAY + DRIVE THRU CANOPY FOUNDATIONS

STRUCTURAL NOTES:

DESIGN CODES:

- IBC 2012
- ASCE 7-10
- AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS," FIFTH EDITION, 2009
- ACI 318-08
- AISC 13TH EDITION
- AWS D1.1

MATERIAL SPECIFICATIONS:

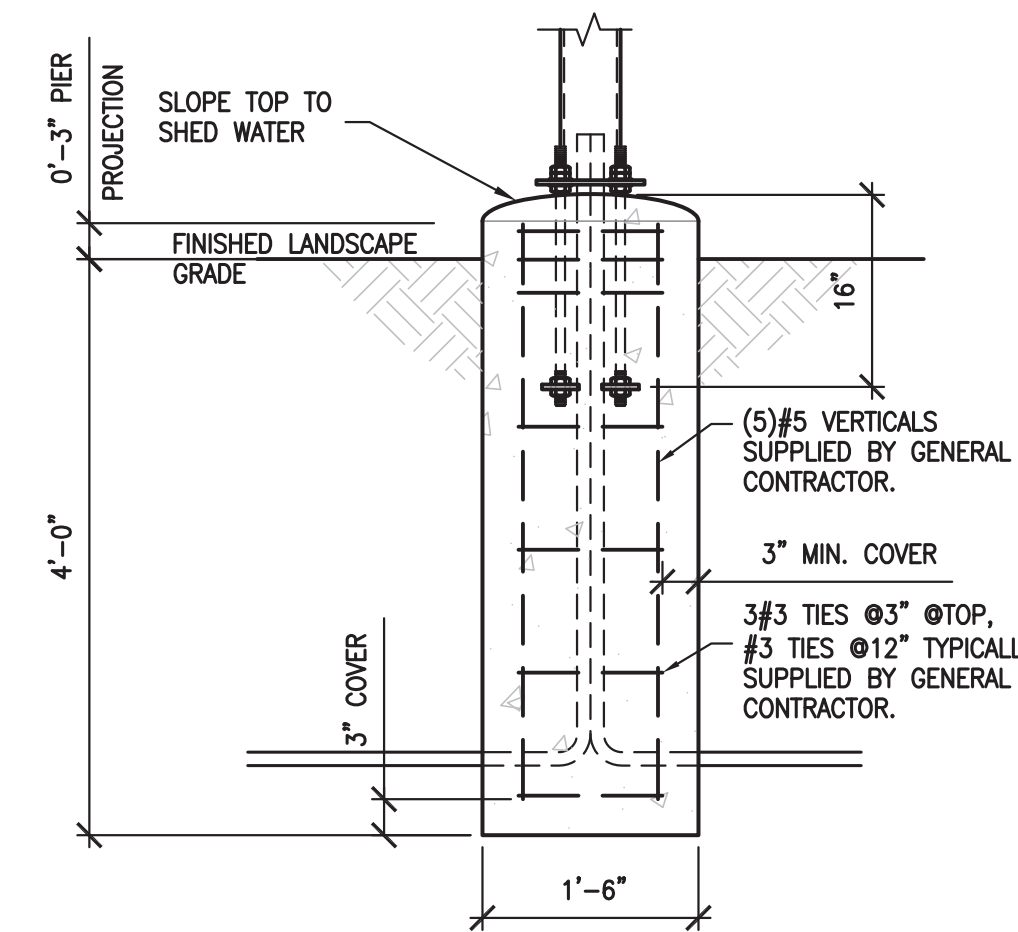
1. CONCRETE COMPRESSIVE STRENGTH (f'_c) SHALL BE A MINIMUM OF 3000psi
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3. REINFORCING STEEL SHALL BE ASTM A615 GRADE 60, SUPPLIED BY GENERAL CONTRACTOR
4. NUTS SHALL BE HEAVY HEX ASTM A563, HOT DIP GALVANIZED PER ASTM A153
5. PLATE SHALL BE ASTM A36, HOT DIP GALVANIZED PER ASTM A153
6. LOCK NUT SHALL BE HOT DIP GALVANIZED PER ASTM A153

FOUNDATION DESIGN PARAMETERS:

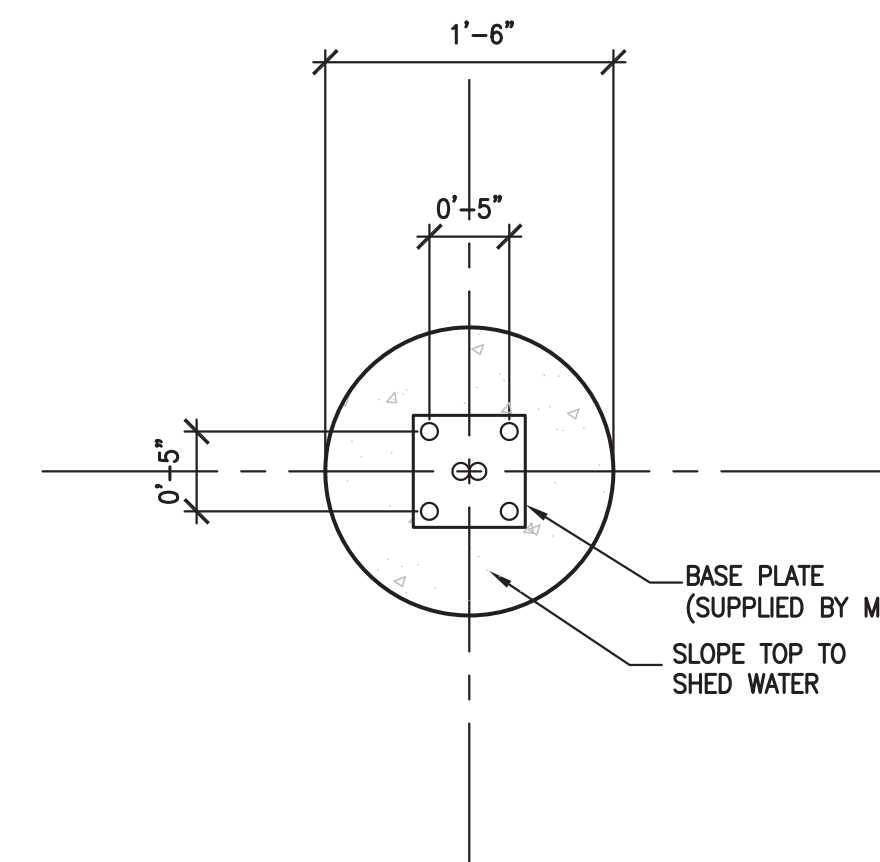
1. ULTIMATE WIND SPEED = 105 MPH
2. MINIMUM REQUIRED SOIL PARAMETERS:
 - COHESIVE SOILS:
 - SHEAR STRENGTH = 750 lbs/ft²
 - 6" MAXIMUM DEPTH OF DISTURBED SOIL OR TOP SOIL
 - COHESIONLESS SOILS:
 - ANGLE OF INTERNAL FRICTION = 27 DEGREES
 - WATER TABLE SHALL BE LOCATED BELOW THE BOTTOM OF THE FOUNDATION
 - 6" MAXIMUM DEPTH OF DISTURBED SOIL OR TOP SOIL
 - MINIMUM ALLOWABLE SOIL BEARING CAPACITY = 3,000 lbs/ft²
3. PRIOR TO FABRICATION OF MATERIALS TO BE USED AT THIS SITE, THE GENERAL CONTRACTOR SHALL EMPLOY A SOILS TESTING AGENCY TO PREPARE A SITE SPECIFIC SOIL REPORT TO ESTABLISH THE SOIL PARAMETERS NOTED ABOVE. IF THE MINIMUM PARAMETERS ARE NOT MET, THIS DESIGN SHALL NOT BE USED.
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6. THIS FOUNDATION DESIGN SHALL NOT BE USED IN LOCATIONS WHICH ARE CLOSER THAN 8ft FROM A RETAINING WALL.
7. THIS FOUNDATION DESIGN SHALL NOT BE USED AT LOCATIONS WHERE THE GROUND SLOPE EXCEEDS 4 INCHES PER FOOT.

GENERAL NOTES:

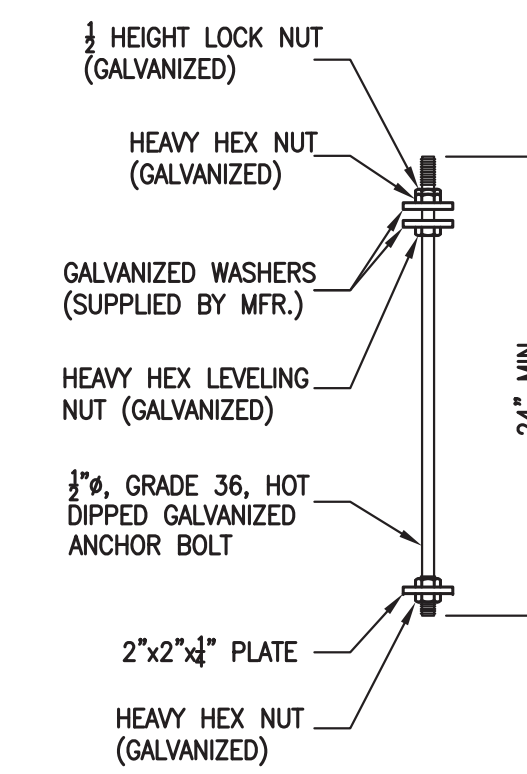
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2. TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE.
3. TOP 6" OF SOIL NEGLECTED IN EMBEDMENT DEPTH CALCULATIONS, (EMBEDMENT DEPTHS SHOWN ARE FORM GRADE).
4. PROVIDE 3" MINIMUM CONCRETE COVER TO REINFORCING BARS, UNLESS NOTED OTHERWISE.
5. ALL REINFORCING BY GENERAL CONTRACTOR.
6. ELECTRICAL CONTRACTOR TO PROVIDE INFORMATION ON CONDUIT AND ELECTRICAL REQUIREMENTS.



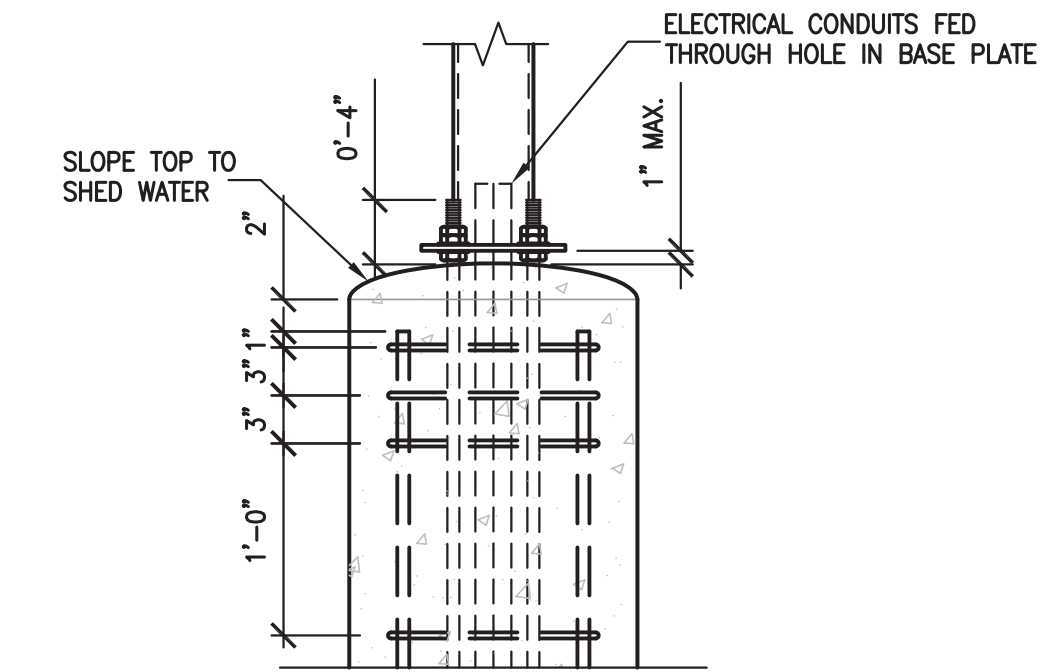
(A) FOUNDATION SECTION
3/4" = 1'-0"



(B) ANCHOR BOLT DETAILS
1" = 1'-0"

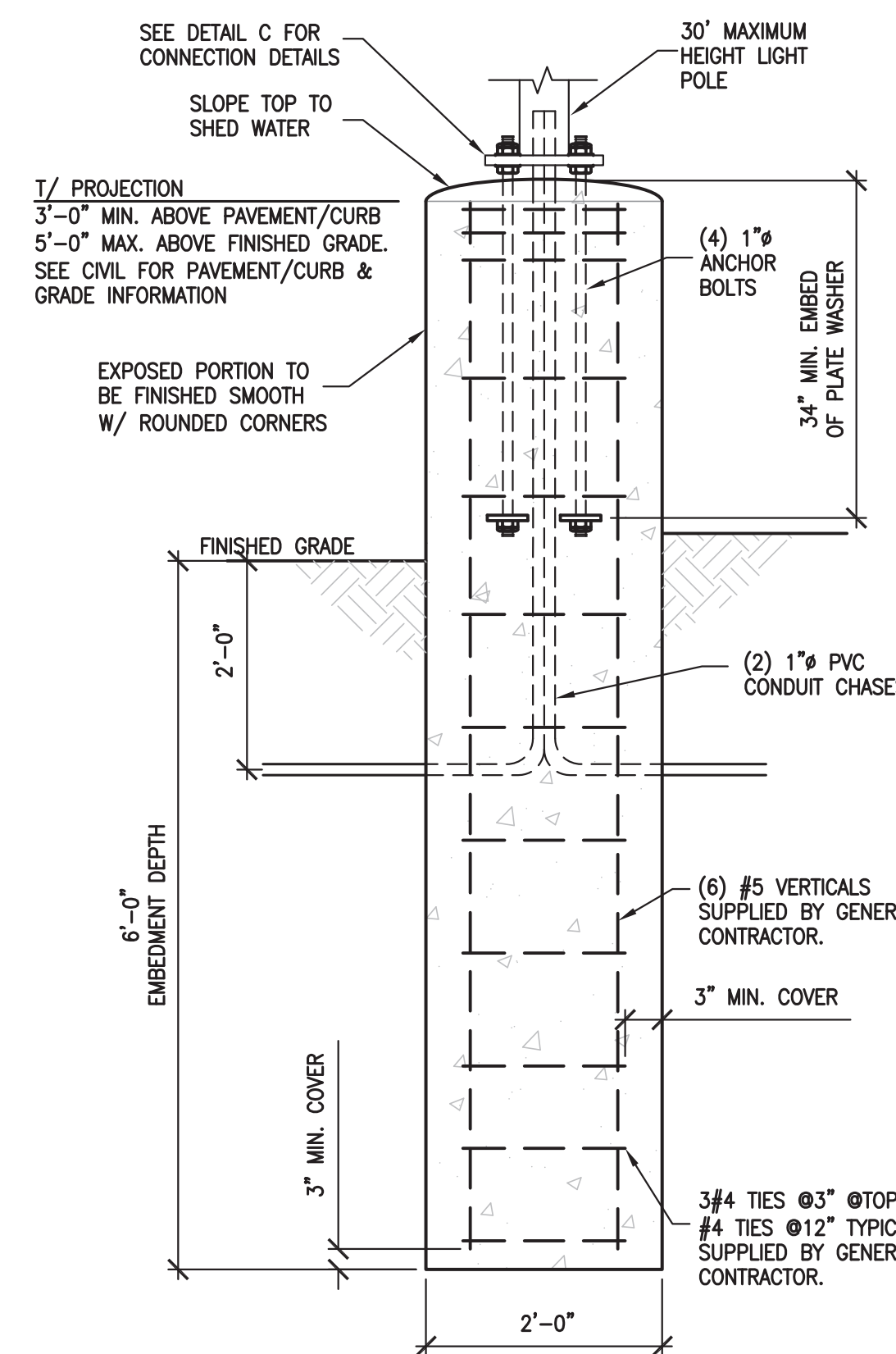


ANCHOR BOLT DETAIL

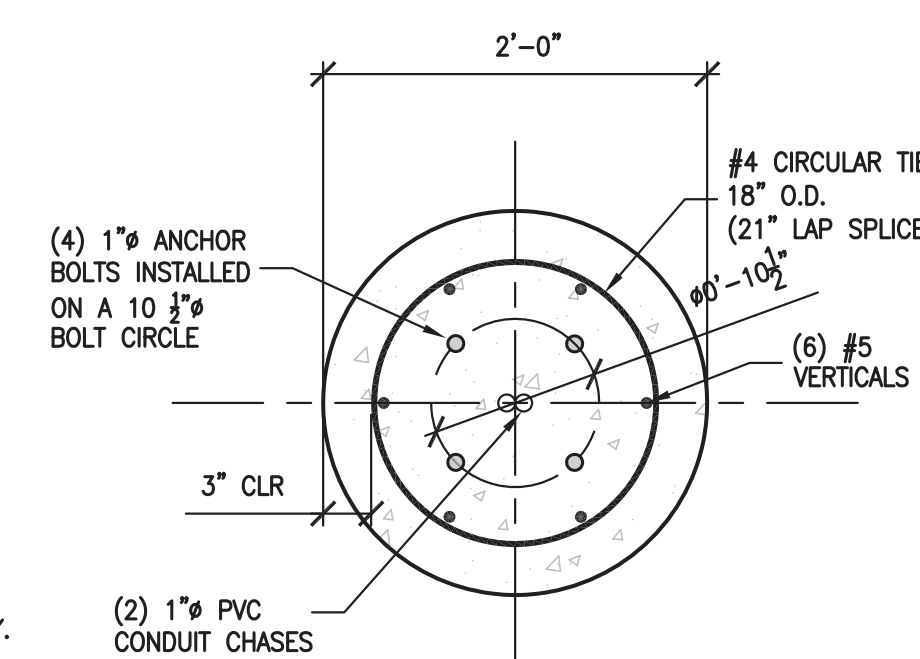


(C) CONNECTION DETAIL
1" = 1'-0"

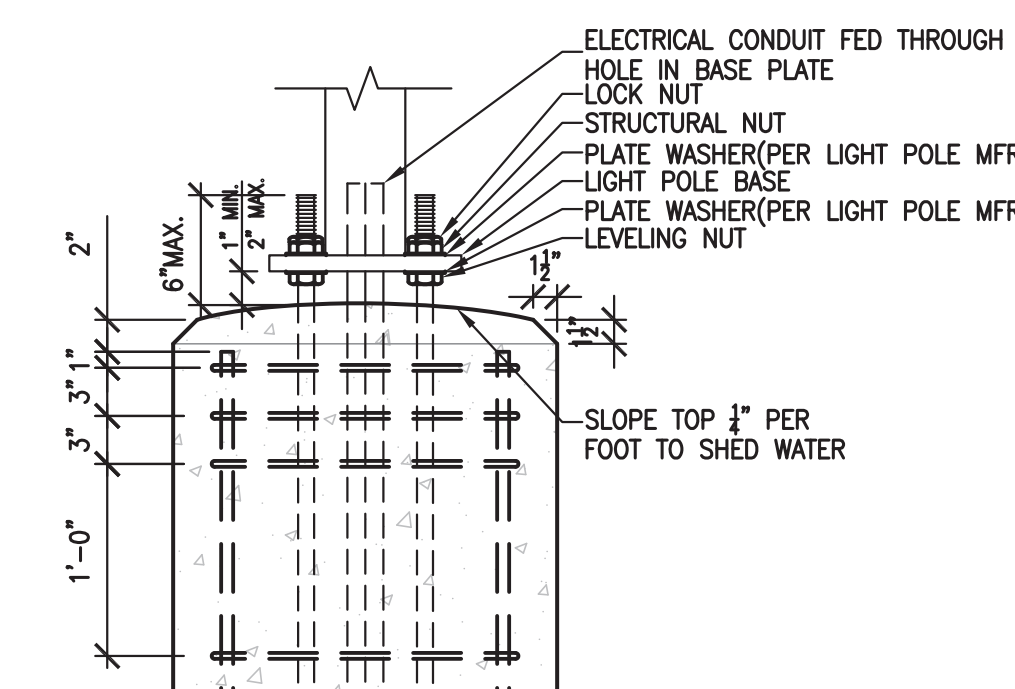
DIRECTIONAL SIGN FOUNDATION



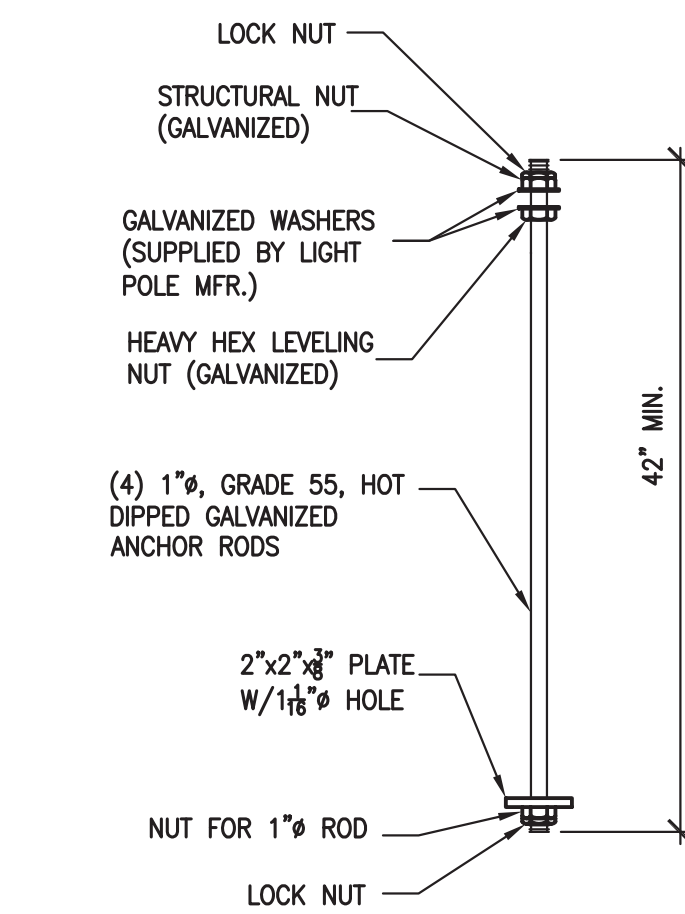
(A) FOUNDATION SECTION
3/4" = 1'-0"



(B) LAYOUT DETAIL
1" = 1'-0"



(C) CONNECTION DETAIL
1" = 1'-0"



(D) ANCHOR BOLT DETAIL
1" = 1'-0"

LIGHT POLE FOUNDATION

NO.	DATE	REVISIONS

Prepared For:

McDonald's
110 N. Carpenter St.
Chicago, IL 60607
McDONALD'S - FITCHBURG, WI
NWC of McKeel Road and Fitchrona Road
Fitchburg, Wisconsin



Prepared By:

SAMARTANO AND COMPANY
STRUCTURAL ENGINEERS
1700 WEST CORTLAND STREET
CHICAGO ILLINOIS 60622
312.332.2326



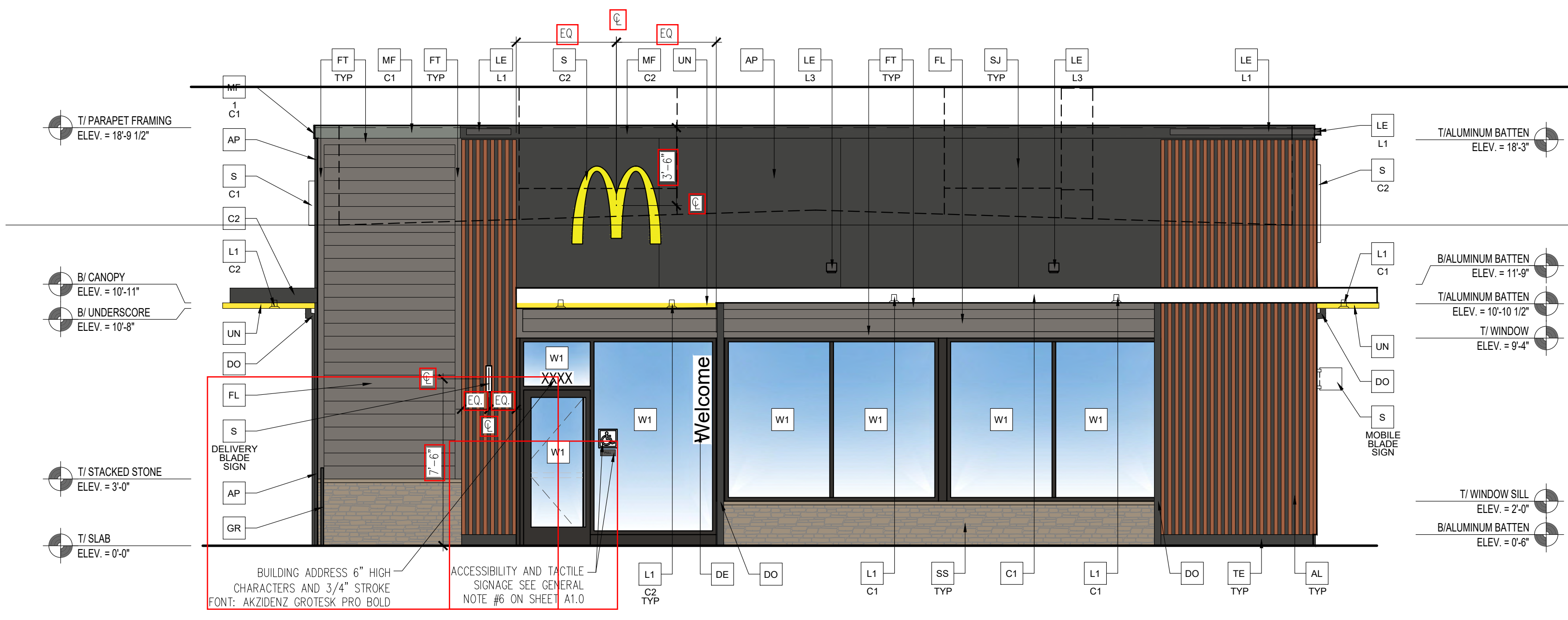
EXPIRES: 07/31/26

CHECKED BY: SN	DESIGN BY: GM
DRAWN BY: GM	DATE: DECEMBER 3, 2024
SCALE: NOTED	PROJECT NO.: 24-001

SSD-3

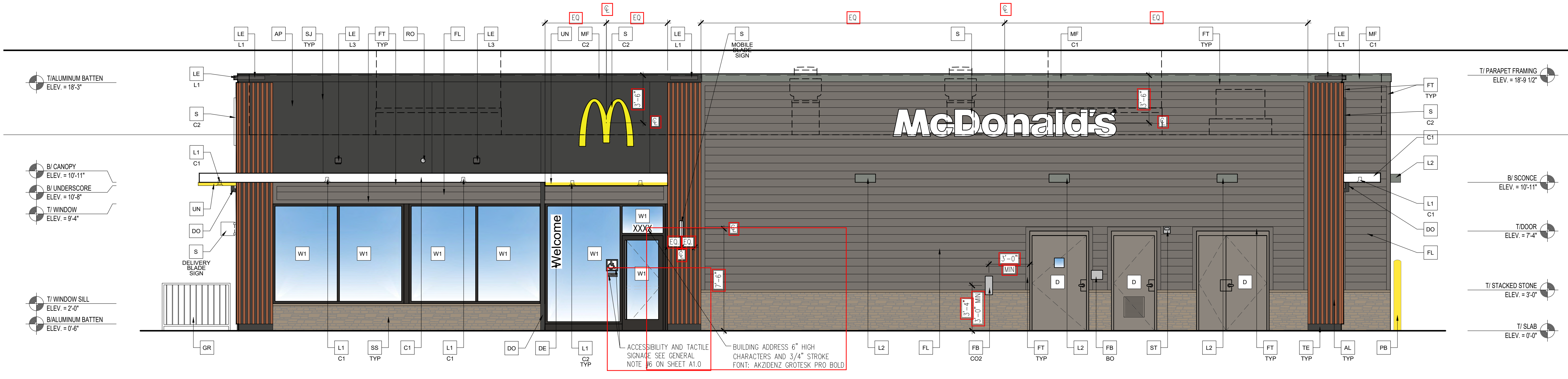
LC #48-1082

DIRECTIONAL SIGN + LIGHT POLE FOUNDATIONS



2 FRONT ELEVATION

Scale: 1/4"=1'-0"



1 NON DRIVE-THRU ELEVATION

Scale: 1/4"=1'-0"

ELEVATION KEY NOTES:	
COLOR SCHEME: 'STEEL' SCHEME	
<p>AL ALUMINUM BATTEN SYSTEM SIZE: 2"x2" PROFILE COLOR: WOOD GRAIN, BACKRAIL UNFINISHED, ENDCAP PAINTED TO MATCH SUBSTRATE- 1/2" EXTERIOR HIGH DENSITY OVERLAY (HDO) PLYWOOD, BB, GROUP 1, HDO BOTH FACES, APA TRADEMARKED. COURSE GRIT SAND SURFACES PRIOR TO PRIMING, PRIME AND PAINT BOTH SIDES AND ALL EDGES PRIOR TO INSTALLATION. SUBSTRATE COLOR: "IRON ORE" SW 7069 BY SHERWIN WILLIAMS</p> <p>AP ALPOLIC METAL PANEL COLOR: DON GRAY</p> <p>C1 ALUMINUM CANOPY SYSTEM W/FASCIA COLOR: WHITE</p> <p>C2 ALUMINUM CANOPY SYSTEM COLOR: RAL 7022</p>	<p>D HOLLOW METAL DOOR PAINT: GAUNTLET GREY SW 7019 BY SHERWIN WILLIAMS</p> <p>DE DECAL BY GRAPHICS SUPPLIER SURFACE APPLIED, FIELD INSTALLED, PRE CUT, PRE SPACED. SUPPLIERS: VOMELA (865) 330-7337, ann.bowen@vomela.com GEX INTERNATIONAL (847) 543-4600, mcdonaldsdecor@gixi.com</p> <p>DO DOWNSPOUT 3" DOWNSPOUT BY CANOPY SYSTEM MANUFACTURER COLOR: RAL 7022</p> <p>FB FILL BOX ## - TYPE: CO2 = BULK CO2 (EQPM SCHEDULE ITEM 49.00) BO = BULK OIL (EQPM SCHEDULE ITEM 700.18)</p> <p>FL FIBER CEMENT LAP SIDING: SMOOTH HARDI-BOARD PLANK BY JAMES HARDIE, 8-1/4" WIDTH, 7" EXPOSURE, HZ5 PAINT: "GAUNTLET GREY" SW7019 BY SHERWIN WILLIAMS</p> <p>FT FIBER CEMENT TRIM: HARDIE TRIM BOARDS 4/4 SMOOTH, 3 1/2" WIDTH, 3/4" THICK, HZ5 PAINT: "GAUNTLET GREY" SW7019 BY SHERWIN WILLIAMS</p>
<p>GR GUARD RAIL - SEE SITE PLAN AND DETAIL 3/A2.0 COLOR: "IRON ORE" SW 7069 BY SHERWIN WILLIAMS</p> <p>L1 RADIAL SCENCE LIGHT FIXTURE - SEE ELECTRICAL ## - COLOR: C1 = WHITE C2 = GOLD</p> <p>L2 RADIAL SCENCE LIGHT FIXTURE - SEE ELECTRICAL COLOR: PLATINUM SILVER</p> <p>LE ACCENT LIGHTING - SEE ELECTRICAL ## - LED LIGHT: L1 = SLIM LED (DOWN ONLY) L2 = UP ONLY FLOOD FIXTURE</p> <p>MF METAL FASCIA: PRE-FAB ANCHOR-TITE FASCIA ## - COLOR: C1 = WEATHERED ZINC C2 = RAL 7022</p>	<p>PB PIPE BOLLARD - SEE SITE PLAN AND DETAIL 3/A2.1 COLOR: PAINTED YELLOW</p> <p>PT (RMHC) COIN COLLECTOR: SEE DETAIL 4/A2.1 MODEL: #WPT STD CALL 1-888-743-7435 TO ORDER</p> <p>RO ROOF DRAIN OVERFLOW PIPE - PAINT TO MATCH SURROUNDING MATERIAL</p> <p>S McDONALD'S SIGNAGE BY OTHERS - UNDER SEPARATE ## - COLOR: C1 = WEATHERED ZINC RACEWAY C2 = RAL 7022 RACEWAY</p> <p>SJ ALPOLIC "MET" SEALED JOINT, SEE DETAIL 7/A4.1</p>
<p>SS STACKED STONE - "CASTAWAY" BY ELDORADO STONE WITH CAP STONE</p> <p>ST CO2 STROBE/ALARM. SEE MECHANICAL DRAWINGS FOR SPECIFICATION.</p> <p>TE TRU EXTERIOR 1"x6" TRIM, PAINTED ON SITE COLOR: "IRON ORE" SW 7069 BY SHERWIN WILLIAMS</p> <p>UN METAL UNDERSCORE COLOR: GOLD</p> <p>W1 EXTERIOR WINDOW ASSEMBLY - TEMPERED GLASS COLOR: DARK BRONZE</p> <p>W2 DRIVE-THRU WINDOW BY READY ACCESS MODEL: 600 SERIES, 36" SERVICE HEIGHT WITH TRANSOM, MANUAL OPEN; ELECTRONIC RELEASE COLOR: DEEP BRONZE ## - COLOR: L = RIGHT TO LEFT LR = LEFT TO RIGHT</p>	<p>T/ PARAPET FRAMING ELEV. = 18'-9 1/2"</p> <p>B/ SCENCE ELEV. = 10'-11"</p> <p>T/ DOOR ELEV. = 7'-4"</p> <p>T/ STACKED STONE ELEV. = 3'-0"</p> <p>T/ SLAB ELEV. = 0'-0"</p>



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STATE ID: 481082
 NATIONAL #: 43262
 PROJECT #: 24-250
 DRAWN BY: RP
 CHECKED BY: JK

DATE: 10/xx/24 - PERMIT / BID SET
 REVISIONS

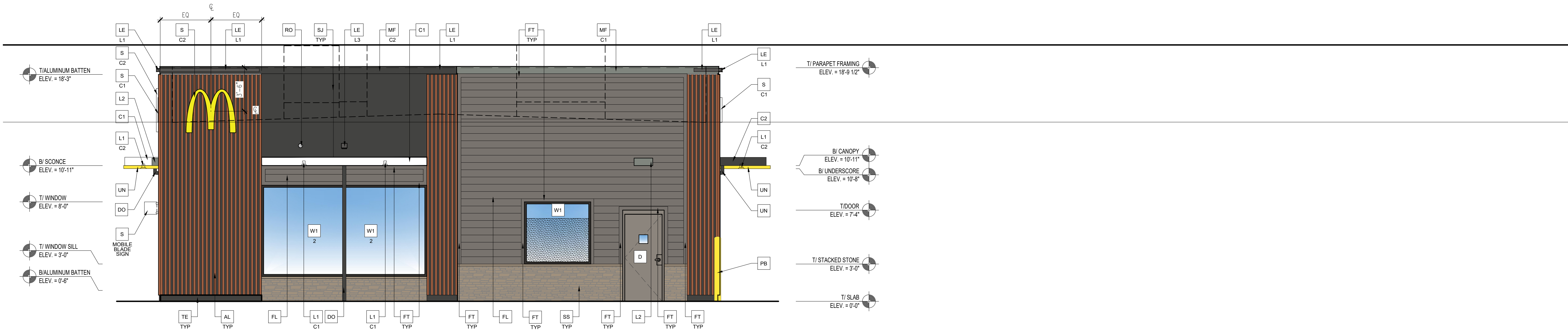
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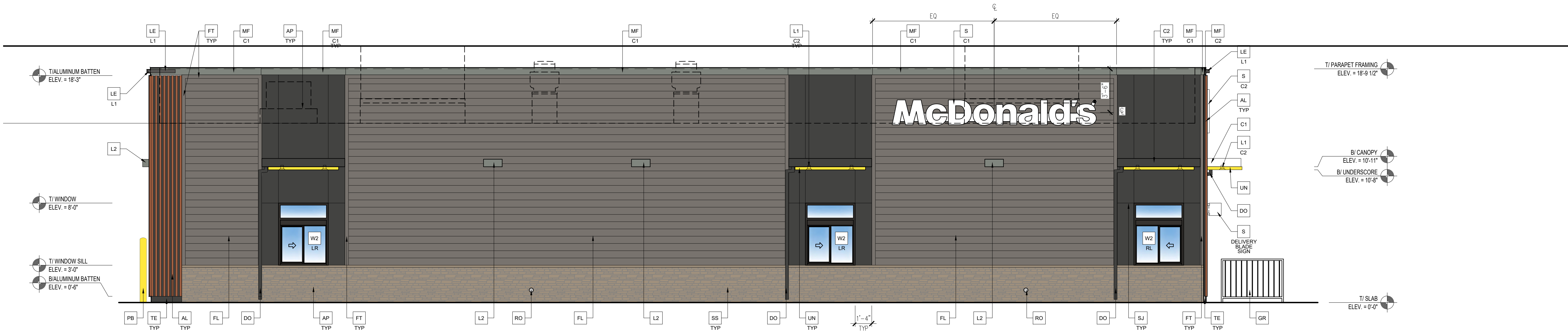
SHEET TITLE
 EXTERIOR ELEVATIONS

SHEET NUMBER:
A2.0



2 REAR ELEVATION

Scale: 1/4"=1'-0"



1 DRIVE-THRU ELEVATION

Scale: 1/4"=1'-0"

ELEVATION KEY NOTES:			
COLOR SCHEME: 'STEEL' SCHEME			
<p>AL ALUMINUM BATTEN SYSTEM SIZE: 2"x2" PROFILE COLOR: WOOD GRAIN, BACKRAIL UNFINISHED, ENDCAP PAINTED TO MATCH SUBSTRATE: 1/2" EXTERIOR HIGH DENSITY OVERLAY (HDO) PLYWOOD, BB, GROUP 1, HDO BOTH FACES, APA TRADEMARKED. COURSE GRIT SAND SURFACES PRIOR TO PRIMING, PRIME AND PAINT BOTH SIDES AND ALL EDGES PRIOR TO INSTALLATION. SUBSTRATE COLOR: "IRON ORE" SW 7069 BY SHERWIN WILLIAMS</p> <p>AP ALPOLIC METAL PANEL COLOR: DON GRAY</p> <p>C1 ALUMINUM CANOPY SYSTEM W/FASCIA COLOR: WHITE</p> <p>C2 ALUMINUM CANOPY SYSTEM COLOR: RAL 7022</p>	<p>D HOLLOW METAL DOOR PAINT: GAUNTLET GREY SW 7019 BY SHERWIN WILLIAMS</p> <p>DE DECAL BY GRAPHICS SUPPLIER SURFACE APPLIED, FIELD INSTALLED, PRE CUT, PRE SPACED. SUPPLIERS: VOMELA (865) 330-7337, ann.bowen@vomela.com GEX INTERNATIONAL (847) 543-4600, mcdonaldsdecor@gxi.com</p> <p>DO DOWNSPOUT 3" DOWNSPOUT BY CANOPY SYSTEM MANUFACTURER COLOR: RAL 7022</p> <p>FB FILL BOX ## - TYPE: CO2 = BULK CO2 (EQPM SCHEDULE ITEM 49.00) B0 = BULK OIL (EQPM SCHEDULE ITEM 700.18)</p> <p>FL FIBER CEMENT LAP SIDING: SMOOTH HARDI-BOARD PLANK BY JAMES HARDIE, 8-1/4" WIDTH, 7" EXPOSURE, HZ5 PAINT: "GAUNTLET GREY" SW7019 BY SHERWIN WILLIAMS</p> <p>FT FIBER CEMENT TRIM: HARDIE TRIM BOARDS 4/4 SMOOTH, 3 1/2" WIDTH, 3/4" THICK, HZ5 PAINT: "GAUNTLET GREY" SW7019 BY SHERWIN WILLIAMS</p>	<p>GR GUARD RAIL - SEE SITE PLAN AND DETAIL 3/A2.0 COLOR: "IRON ORE" SW 7069 BY SHERWIN WILLIAMS</p> <p>L1 RADIAL SCONCE LIGHT FIXTURE - SEE ELECTRICAL ## - COLOR: C1 = WHITE C2 = GOLD</p> <p>L2 RADIAL SCONCE LIGHT FIXTURE - SEE ELECTRICAL COLOR: PLATINUM SILVER</p> <p>LE ACCENT LIGHTING - SEE ELECTRICAL ## - LED LIGHT: L1 = SLIM LED (DOWN ONLY) L2 = UP ONLY FLOOD FIXTURE</p> <p>MF METAL FASCIA: PRE-FAB ANCHOR-TITE FASCIA ## - COLOR: C1 = WEATHERED ZINC C2 = RAL 7022</p>	<p>PB PIPE BOLLARD - SEE SITE PLAN AND DETAIL 3/A2.1 COLOR: PAINTED YELLOW</p> <p>PT (RMHC) COIN COLLECTOR. SEE DETAIL 4/A2.1 MODEL: #WPT STD CALL 1-888-743-7435 TO ORDER</p> <p>RO ROOF DRAIN OVERFLOW PIPE - PAINT TO MATCH SURROUNDING MATERIAL</p> <p>S McDONALD'S SIGNAGE BY OTHERS - UNDER SEPARATE ## - COLOR: C1 = WEATHERED ZINC RACEWAY C2 = RAL 7022 RACEWAY</p> <p>SJ ALPOLIC "WET" SEALED JOINT, SEE DETAIL 7/A4.1</p> <p>SS STACKED STONE - "CASTAWAY" BY ELDORADO STONE WITH CAP STONE</p> <p>ST CO2 STROBE/ALARM. SEE MECHANICAL DRAWINGS FOR SPECIFICATION.</p> <p>TE TRU EXTERIOR 1"x6" TRIM. PAINTED ON SITE COLOR: "IRON ORE" SW 7069 BY SHERWIN WILLIAMS</p> <p>UN METAL UNDERSCORE COLOR: GOLD</p> <p>W1 EXTERIOR WINDOW ASSEMBLY - TEMPERED GLASS COLOR: DARK BRONZE</p> <p>W2 DRIVE-THRU WINDOW BY READY ACCESS MODEL: 600 SERIES, 36" SERVICE HEIGHT WITH TRANSOM, MANUAL OPEN; ELECTRONIC RELEASE COLOR: DEEP BRONZE ## - COLOR: L = RIGHT TO LEFT LR = LEFT TO RIGHT</p>



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10-xx-24

STATE ID: 481082 PROJECT #: 24-250
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SHEET TITLE
EXTERIOR ELEVATIONS

SHEET NUMBER:
A2.1



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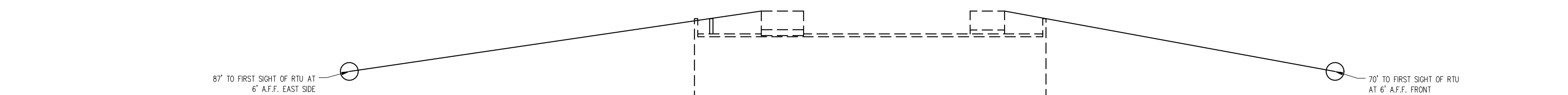
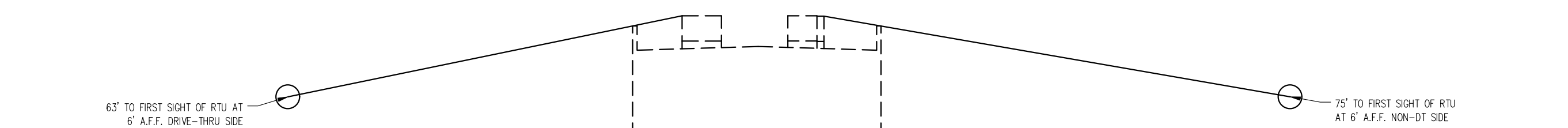
6302 MCKEE ROAD
FITCHBURG, WI 53719

SHEET TITLE

RTU VISIBILITY
EXHIBIT

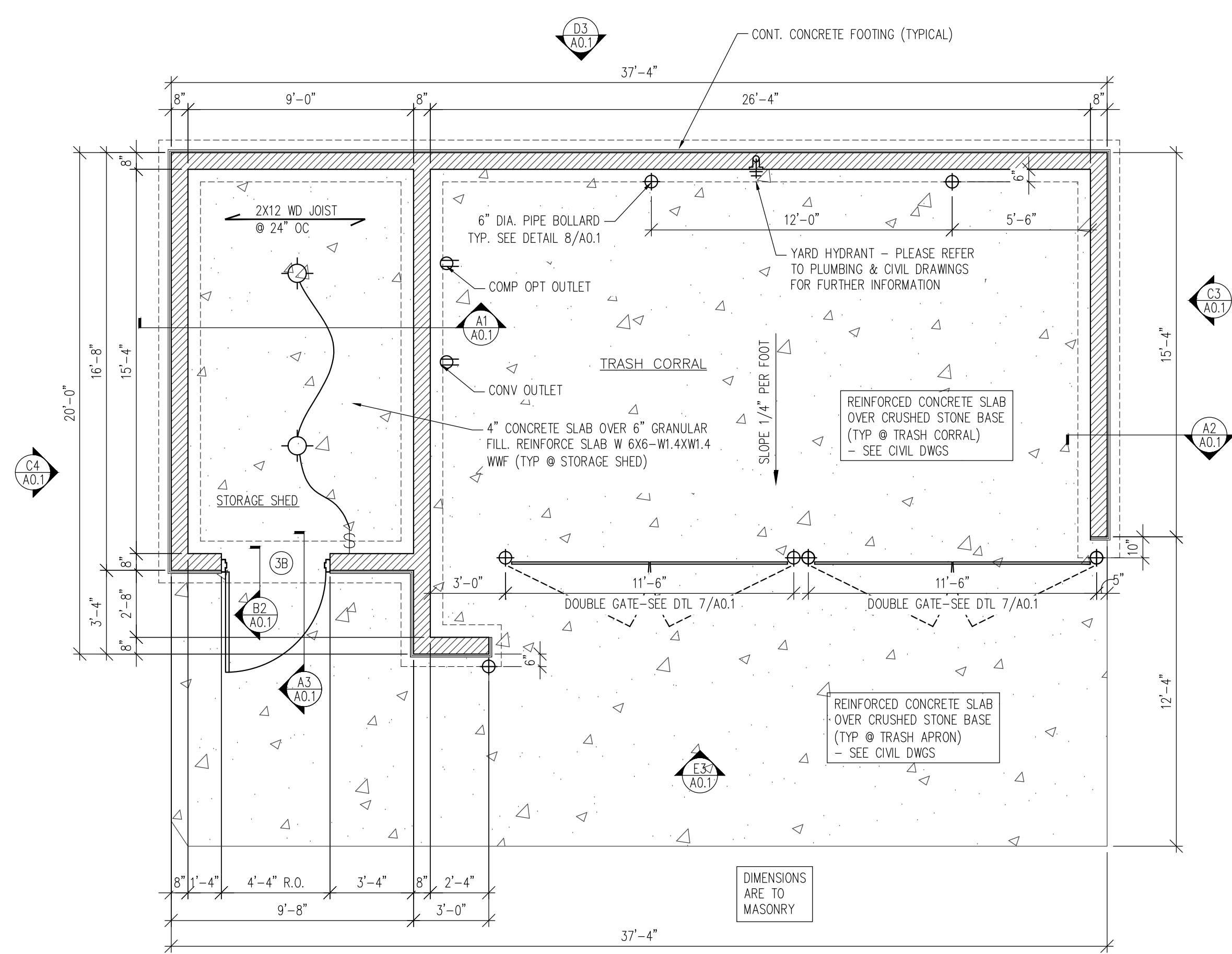
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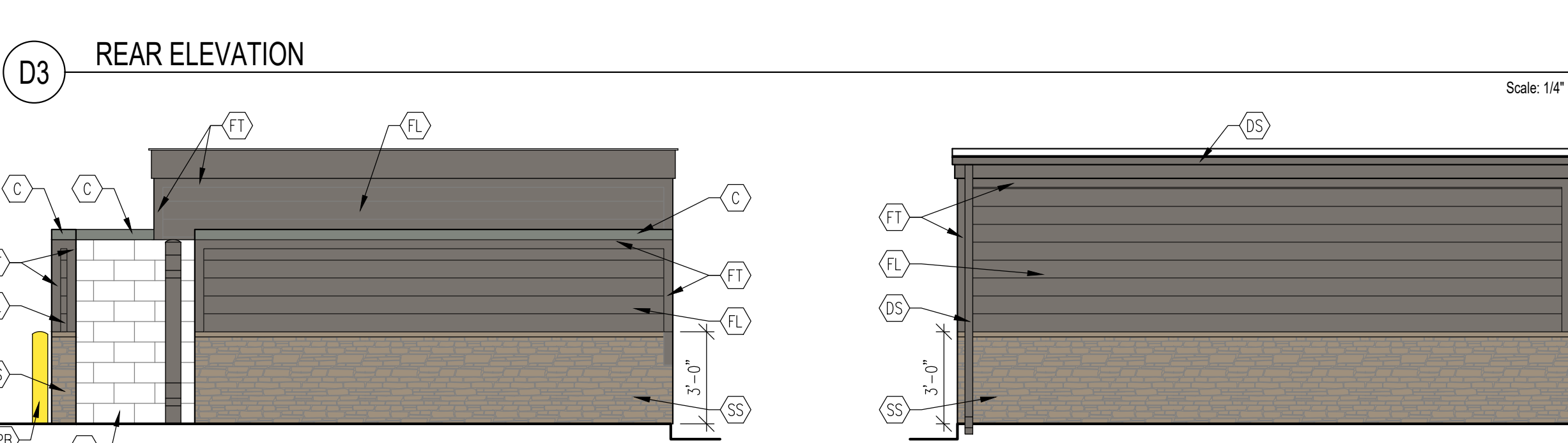
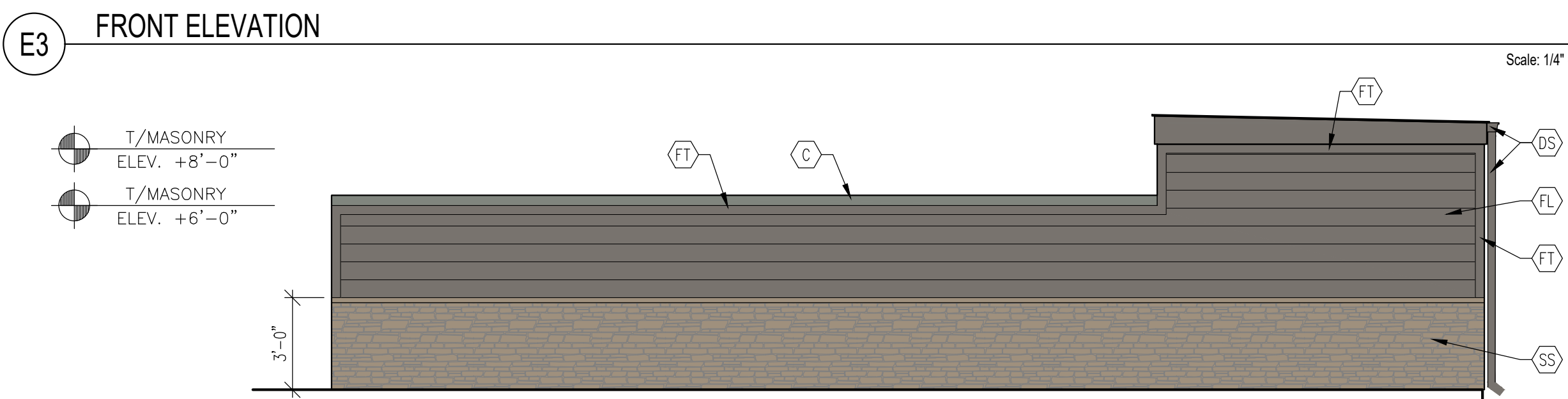
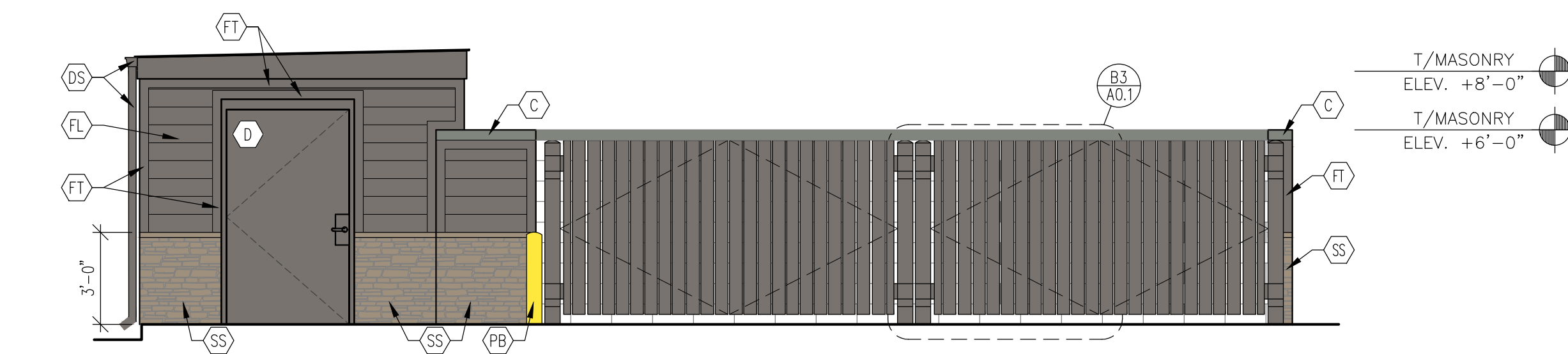


1 RTU VISIBILITY EXHIBIT

Scale: 1"=20'



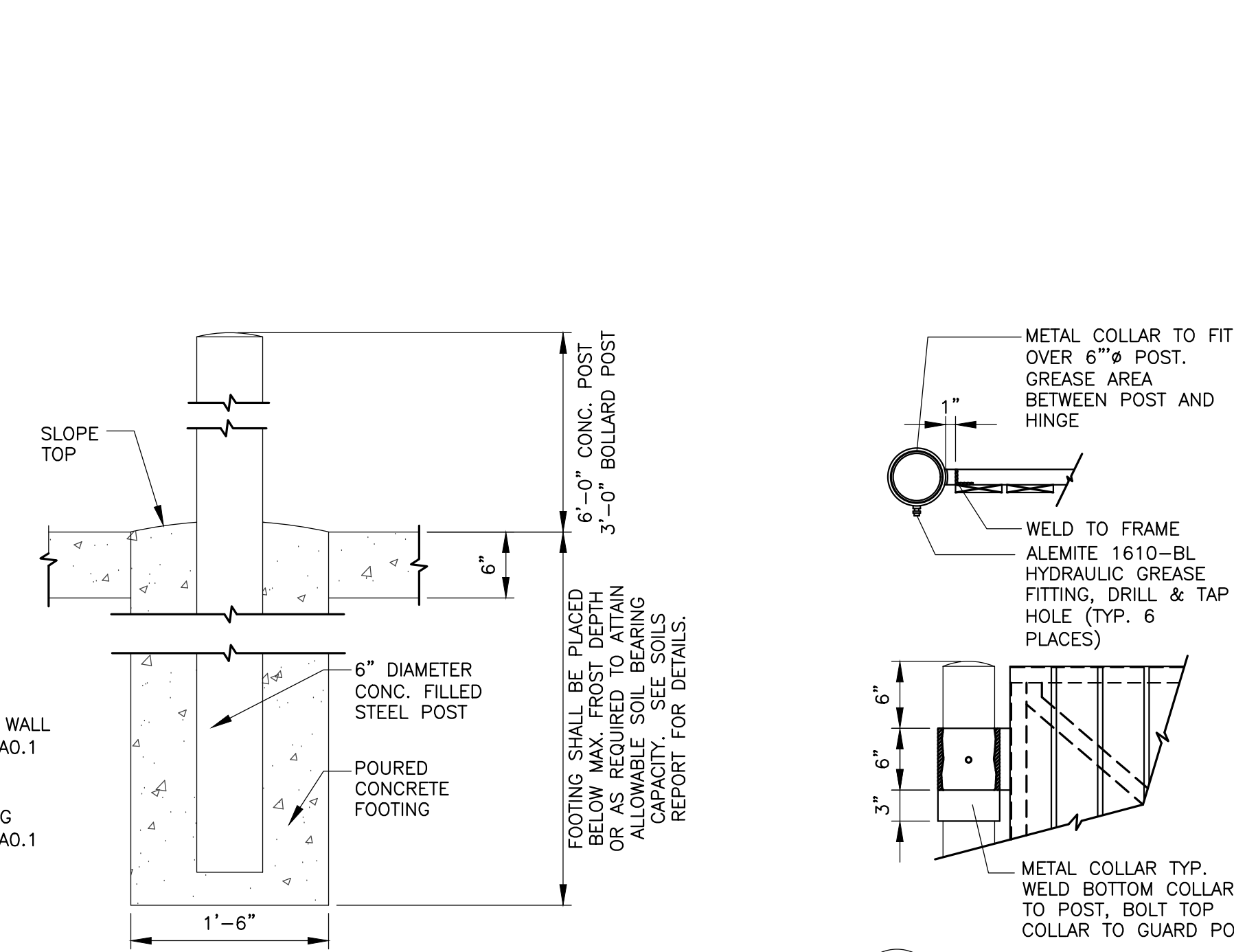
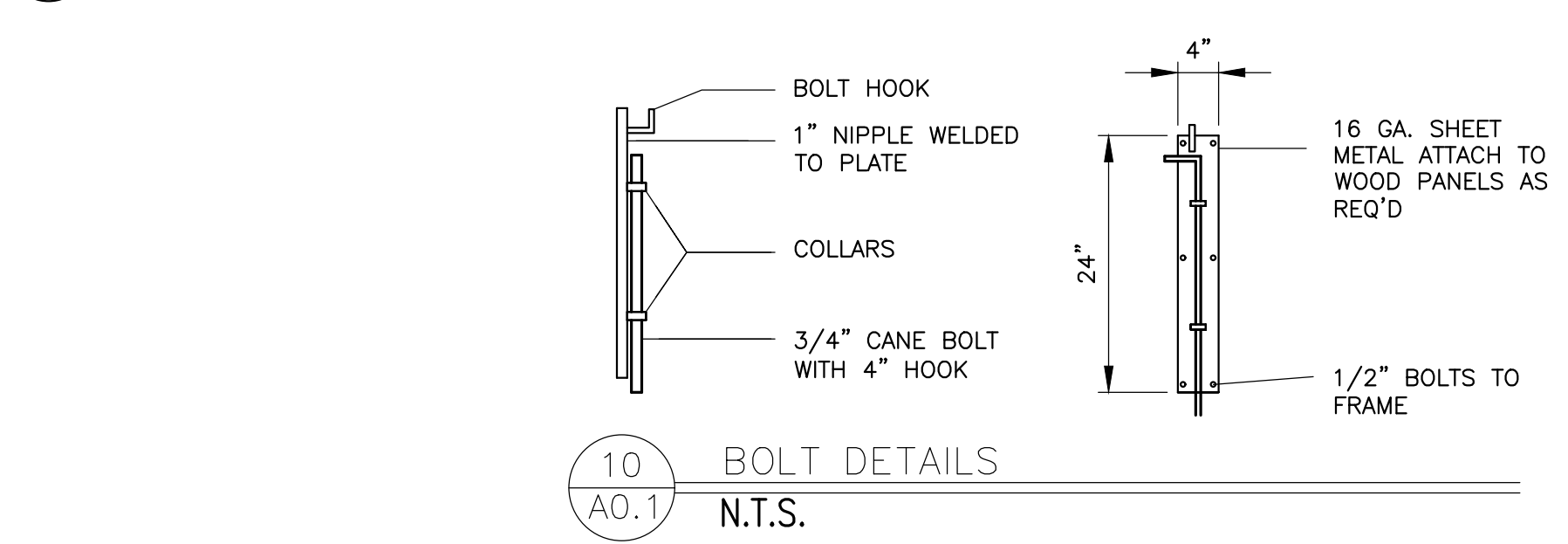
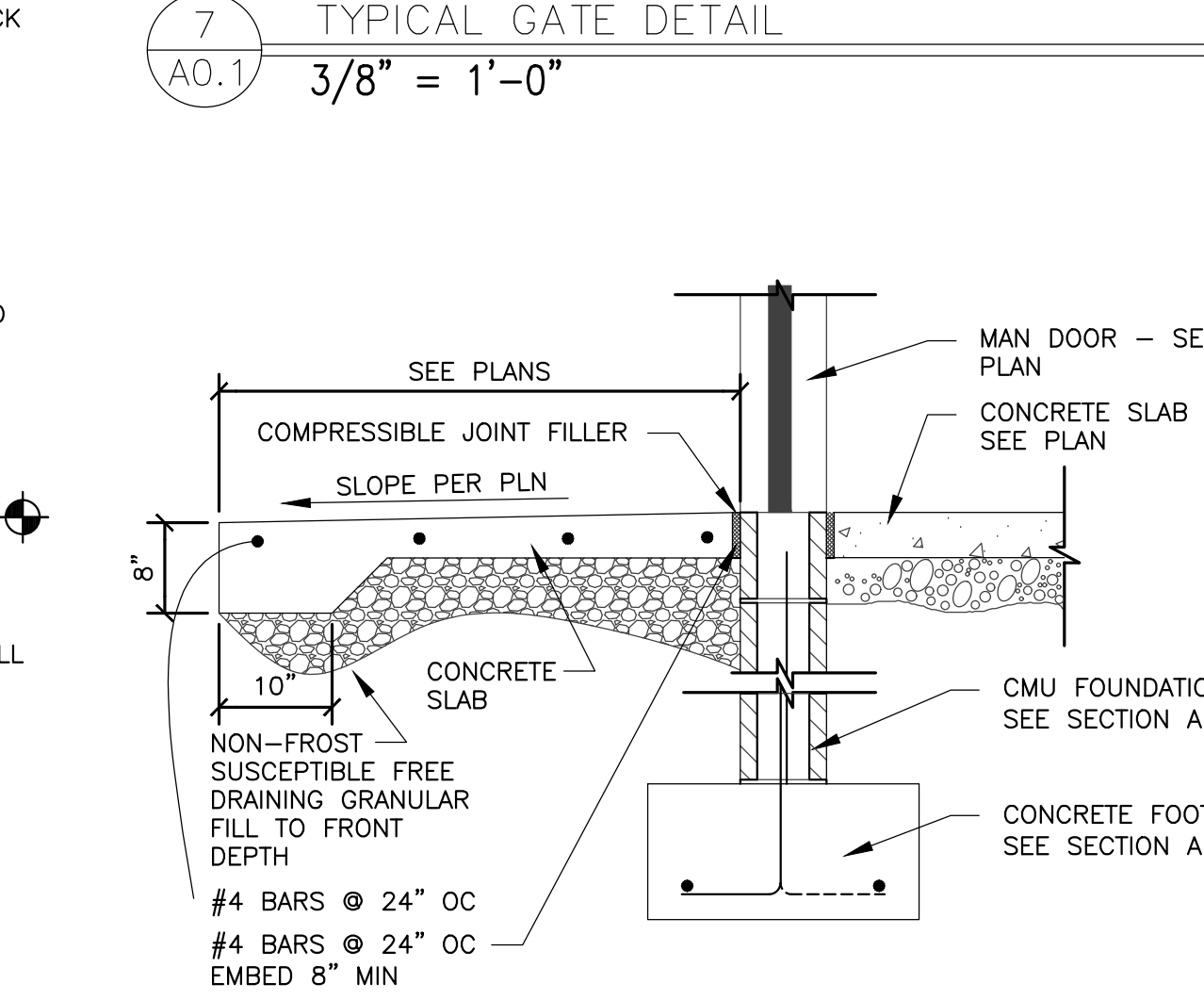
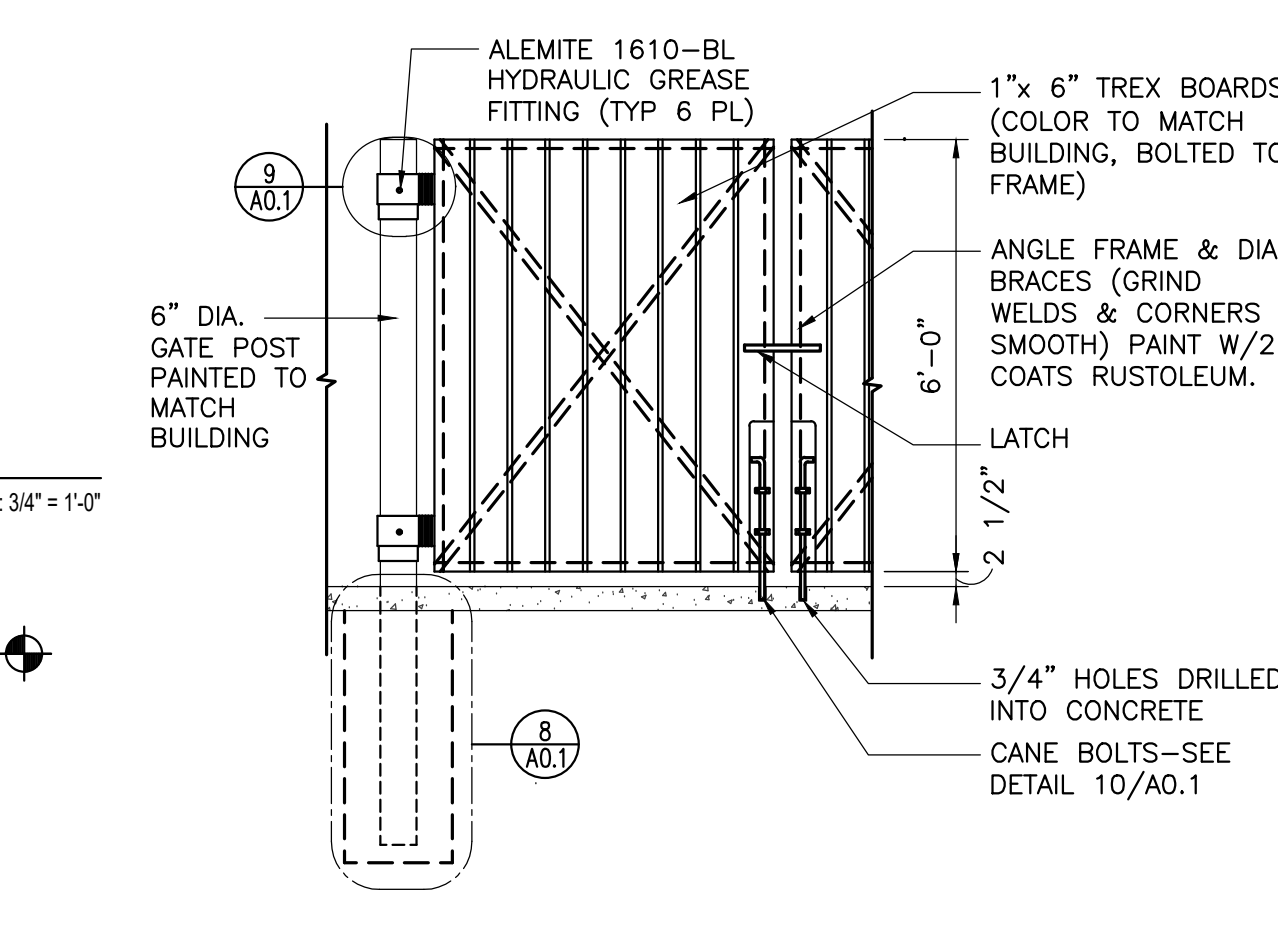
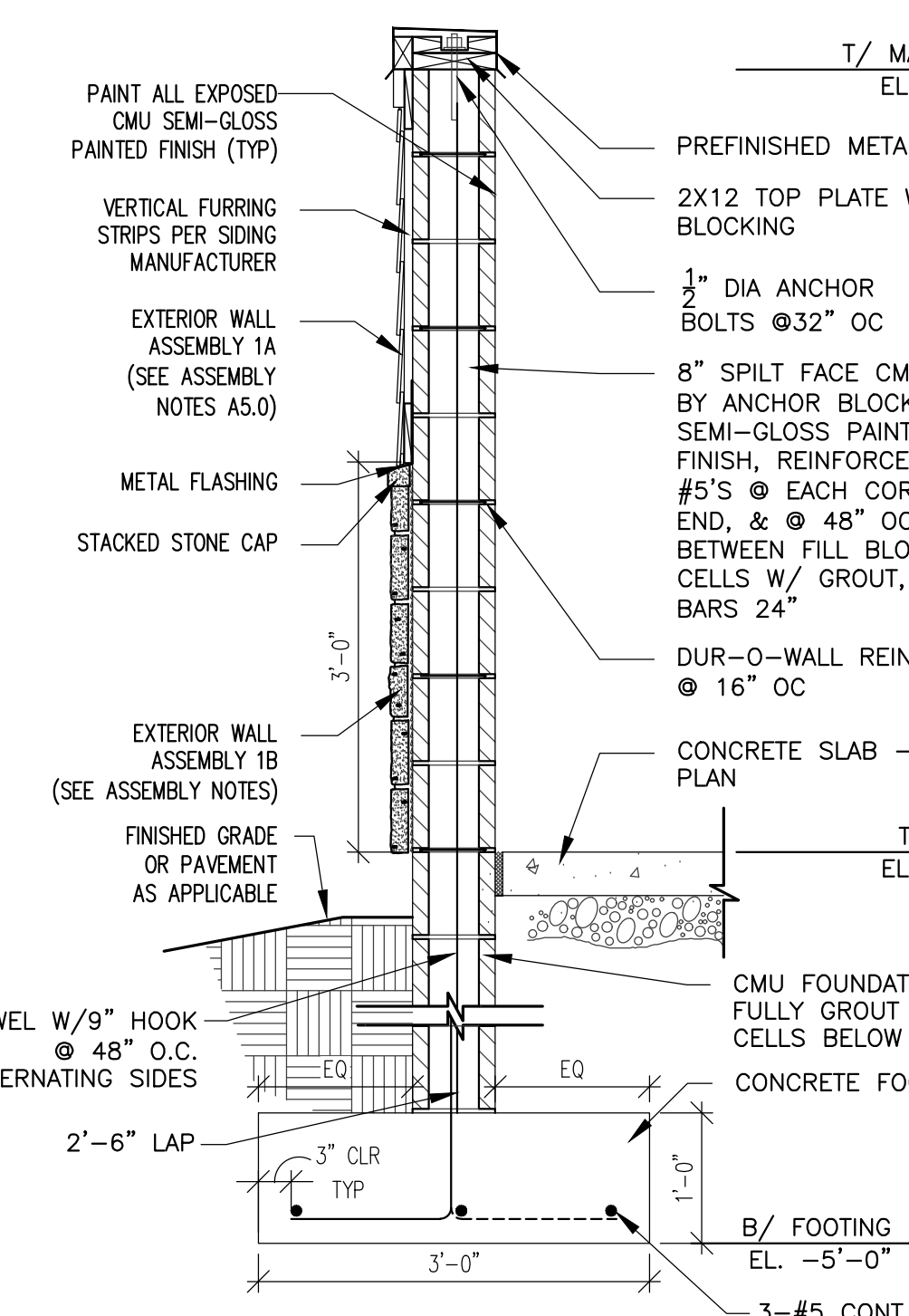
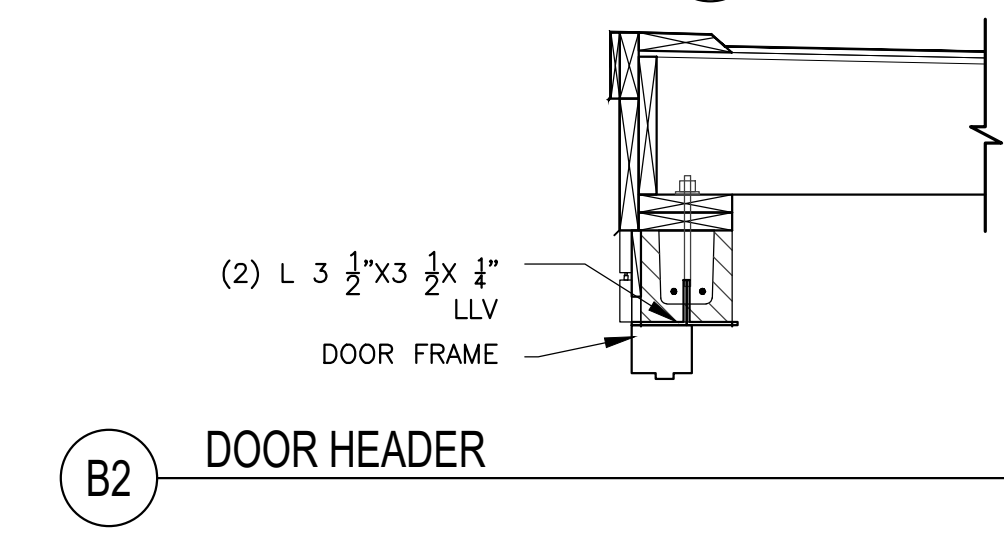
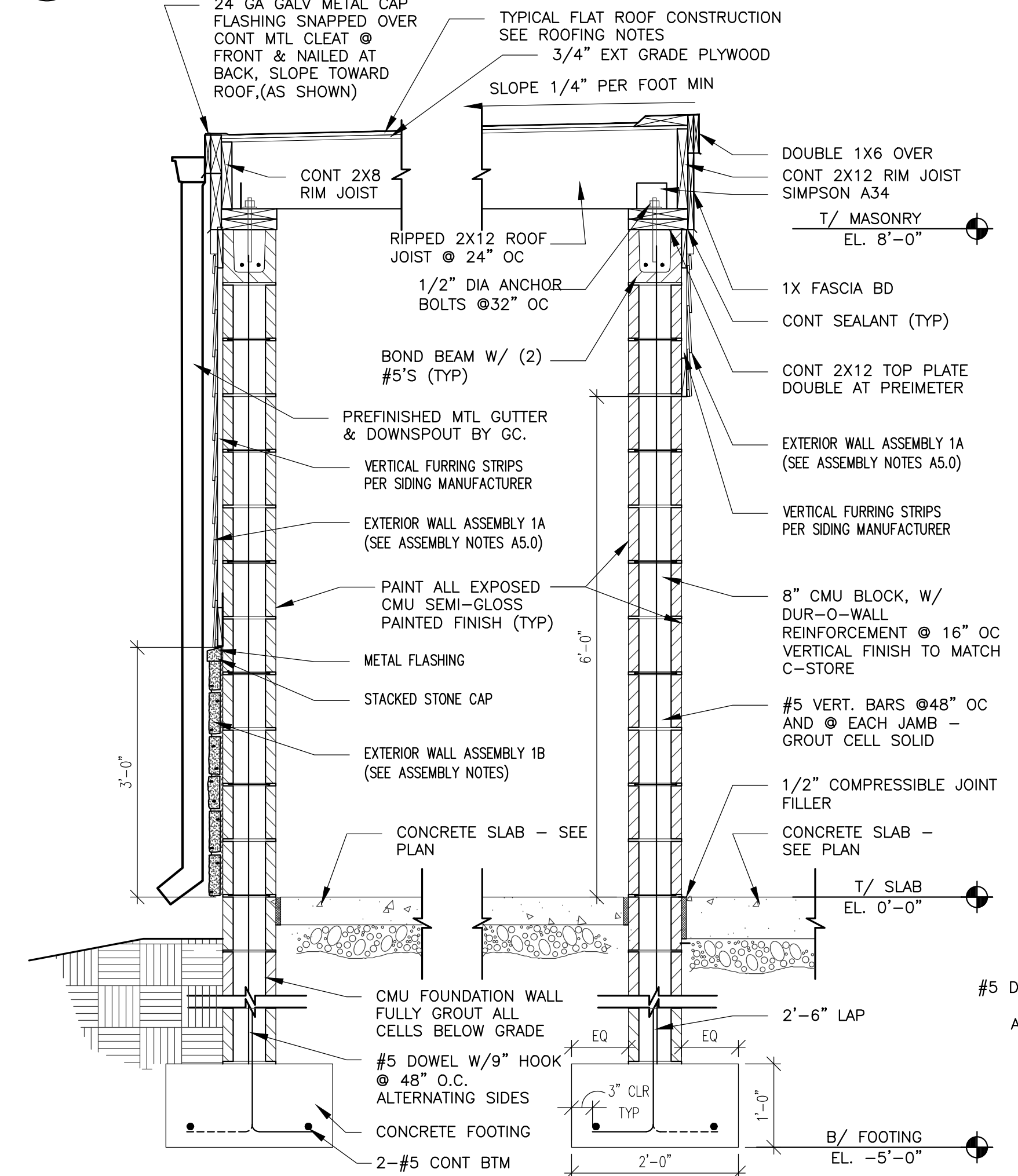
NOTE: - SEE DOOR SCHEDULE SHEET A5.0 - INCANDESCENT LIGHT FIXTURE SHALL BE FURNISHED. WIRE GUARD, 40 WATT LAMP, AND SURFACE MOUNT, PASS & SEMORE-#44 OR LIGHTING LTD-#1743-2000 AWG



C1 TRASH ENCLOSURE PLAN W/ SHED

C3 LEFT ELEVATION

C4 RIGHT ELEVATION



- KEY NOTES:**
- C METAL COPING - UNA-CLAD BY FIRESTONE ANODIZED ALUMINUM COLOR: WEATHERED ZINC
 - CM CMU SEMI-GLOSS PAINTED FINISH
 - D HOLLOW METAL DOOR, PAINT GAUNTLET GRAY SW 7019 BY SHERWIN WILLIAMS
 - DS GUTTER AND DOWNSPOUT COLOR: PAINT GAUNTLET GRAY SW 7019 BY SHERWIN WILLIAMS
 - FL FIBER CEMENT LAP SIDING: SMOOTH HARDI-BRAND BOARD PLANK BY JAMES HARDIE, 8-1/4" WIDTH, 7" EXPOSURE, HZS PAINT: "GAUNTLET GREY" SW7019 BY SHERWIN WILLIAMS
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 - PB PIPE BOLLARD - PAINTED YELLOW
 - SS STACKED STONE - "CASTAWAY" BY ELDORADO STONE WITH CAP STONE

LINGLE DESIGN GROUP INC.

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TRASH ENCLOSURE
PLAN AND
DETAILS

SHEET NUMBER:

A0.1