

FAMILY PROMISE

# NEW HOUSING

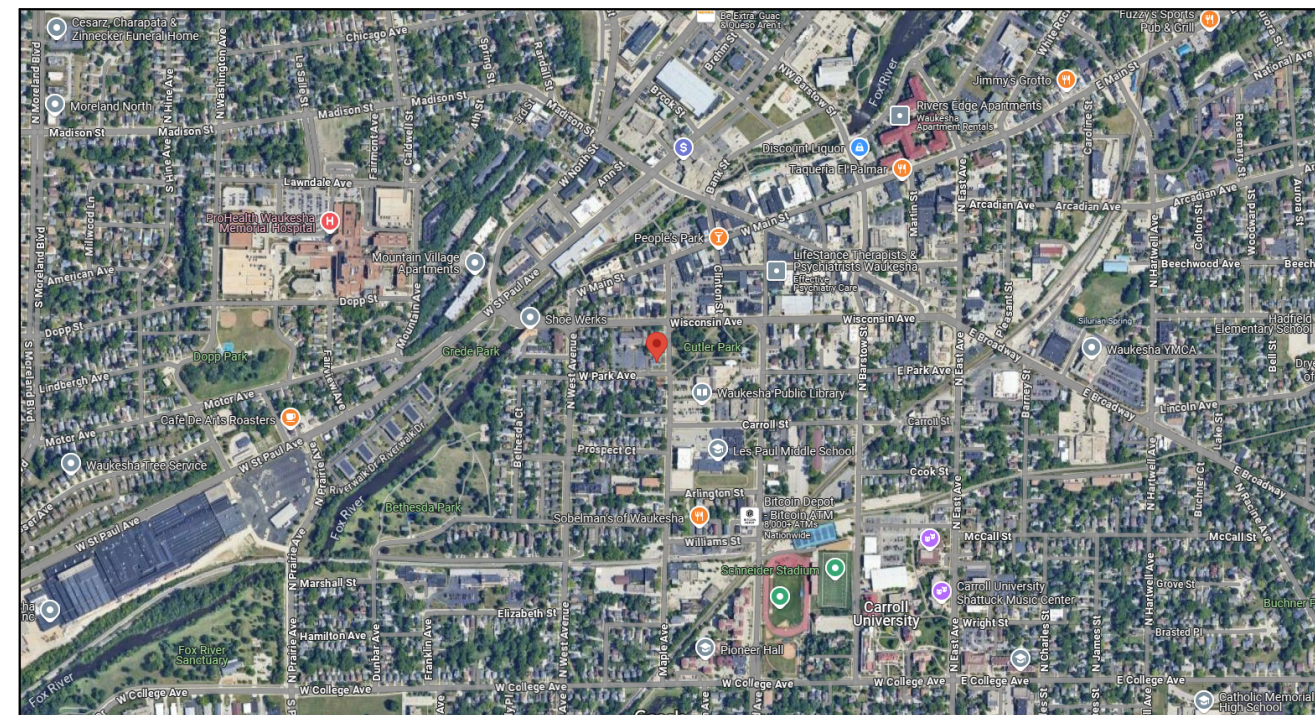
600 MAPLE AVENUE  
WAUKESHA, WI



FAMILY PROMISE  
NEW HOUSING  
600 MAPLE AVENUE  
WAUKESHA, WI

OWNER	GENERAL CONTRACTOR	PROJECT ARCHITECT	STRUCTURAL ENGINEER	CIVIL ENGINEER
FAMILY PROMISE 139 E NORTH ST WAUKESHA, WI 53188 262.968.2321	VJS CONSTRUCTION SERVICES W233 N2847 ROUNDY CIRCLE WEST PEWAUKEE, WI 53072 P: 262.542.9000 VJSCS.COM	BRIAN GRIEBL, AIA VJS CONSTRUCTION SERVICES W233 N2847 ROUNDY CIRCLE WEST PEWAUKEE, WI 53072 P: 262.542.9000 VJSCS.COM	TO BE DETERMINED	EXCEL ENGINEERING, INC 100 CAMELOT DR FOND DU LAC, WI 54936 920.926.9800

		PRELIMINARY DESIGN	CONCEPT BUDGET	PRELIM SPAR	PLAN COMMISSION	BID SET	PLAN REVIEW	PERMIT REVIEW	FOR CONSTRUCTION
TITLE									
T1.01	TITLE SHEET								
CIVIL									
C0.1	CIVIL COVER SHEET								
C0.2	CIVIL SPECIFICATIONS								
C1.0	EXISTING SITE AND DEMOLITION PLAN								
C1.1	SITE PLAN								
C1.2	GRADING AND EROSION CONTROL PLAN								
C1.3	UTILITY PLAN								
C1.4	LANDSCAPE AND RESTORATION PLAN								
C1.5	COLORLED LANDSCAPE PLAN								
C2.0	DETAILS								
C2.1	DETAILS								
C3.1	SITE PHOTOMETRIC PLAN & DETAILS								
ARCHITECTURAL									
A1.01	FIRST FLOOR PLAN								
A1.02	SECOND FLOOR PLAN								
A2.01	EXTERIOR ELEVATIONS								
AR1.01	ARCHITECTURAL RENDERING								
AR1.02	ARCHITECTURAL RENDERING								



1 PROJECT LOCATION  
N.T.S.



DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF VJS CONSTRUCTION SERVICES. THE ARCHITECT/ENGINEER ASSUMES NO RESPONSIBILITY OR LIABILITY FOR THE USE OF THESE PLANS FOR ANY PROJECT OTHER THAN SPECIFICALLY AUTHORIZED BY THEM AND IS NOT TO BE REPRODUCED FOR ANY SPECIFIC LOCATION IN THE STATE, PROVINCE, OR TERRITORY SHOWN ON THE SEAL.

ISSUANCE & REVISIONS	
1	6/16/2025 CONCEPT DESIGN
2	8/18/2025 CONCEPT BUDGET
3	1/28/2026 PRELIM SPAR
4	6/24/2026 PLAN COMMISSION

PROJECT NUMBER	8240042
PROJECT ISSUED	5/5/2025
DRAWN BY	BDG
CHECKED BY	BDG

TITLE SHEET

T1.01

NOT FOR CONSTRUCTION

# PROPOSED NEW HOUSING FOR: FAMILY PROMISE

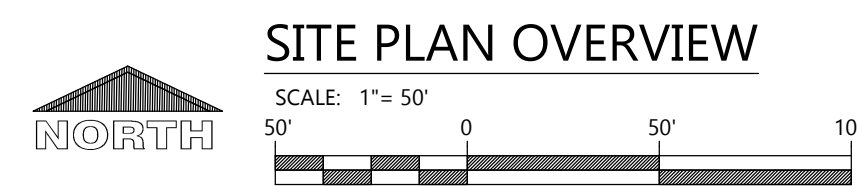
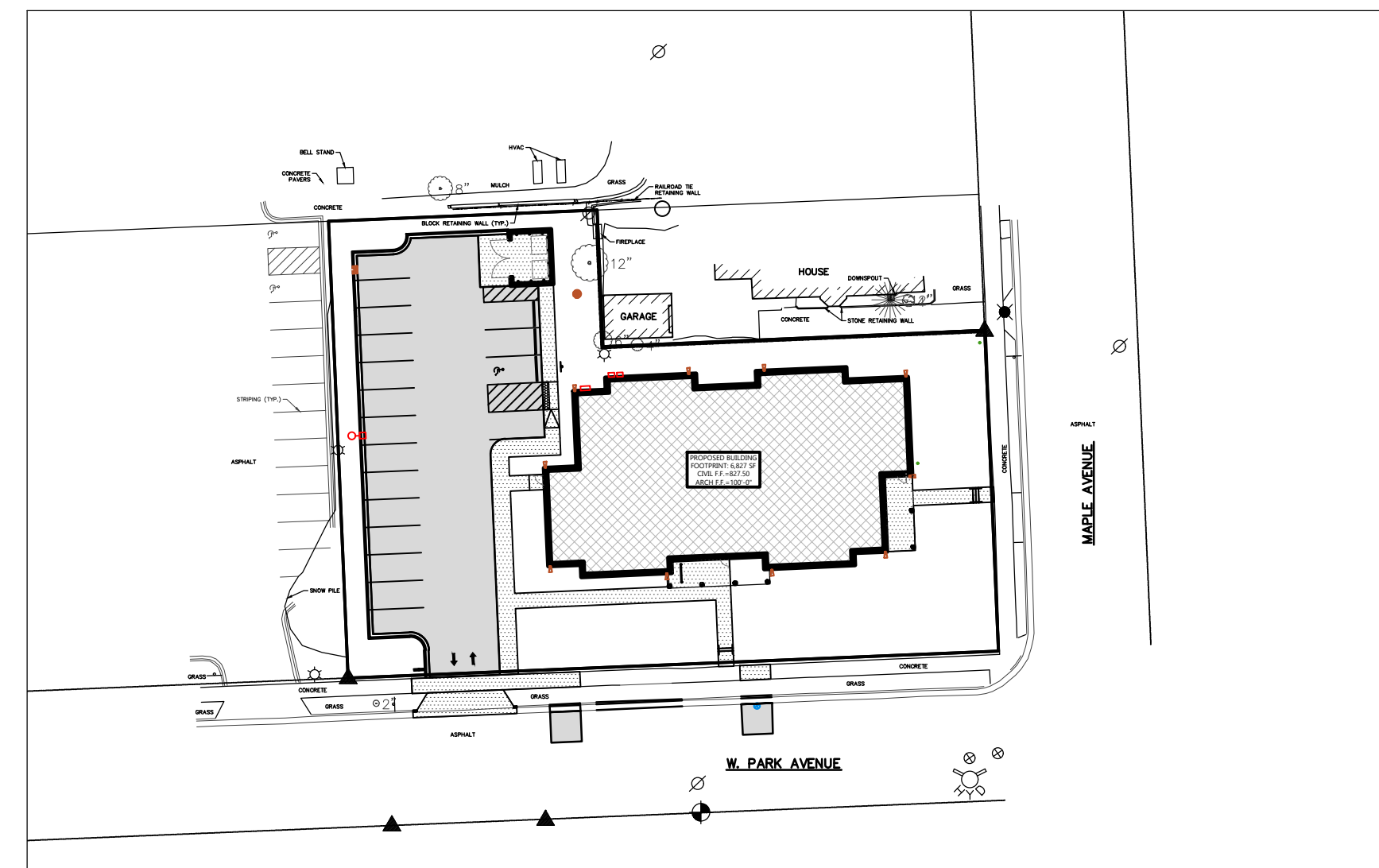
## WAUKESHA, WI

### SHEET INDEX

SHEETS BELOW INTENDED TO BE PRINTED IN: **COLOR**. REFER TO DIGITAL FORMAT DRAWINGS IF PRINTED GRAYSCALE TO ENSURE SCOPE CLARITY.

NUMBER	SHEET NAME / DESCRIPTION
C0.1	CIVIL COVER SHEET
C0.2	CIVIL SPECIFICATIONS
C1.0	EXISTING SITE AND DEMOLITION PLAN
C1.1	SITE PLAN
C1.2	GRADING AND EROSION CONTROL PLAN
C1.3	UTILITY PLAN
C1.4	LANDSCAPE AND RESTORATION PLAN
C1.5	COLORDED LANDSCAPE PLAN
C2.0	DETAILS
C2.1	DETAILS
C3.1	SITE PHOTOMETRIC PLAN & DETAILS


 TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN  
 CALL DIGGERS HOTLINE  
 1-800-242-8511  
 TOLL FREE TELEFAX (414) 259-0947  
 TDD (FOR THE HEARING IMPAIRED)  
 1-800 542-2289  
 WISCONSIN STATUTE 182.0175 (1974)  
 REQUIRES MINIMUM OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE



### LEGEND

NOTE: ALL SYMBOLS SHOWN MAY NOT APPEAR ON DRAWINGS.

SYM.	IDENTIFICATION	SYM.	IDENTIFICATION
<b>SPOT ELEVATIONS</b>			
• [000.00]	PROPOSED SPOT ELEVATIONS (FLOW LINE OF CURB UNLESS OTHERWISE SPECIFIED)	• [000.00]TC	PROPOSED SPOT ELEVATIONS (TOP OF CURB, FLOWLINE OF CURB)
• [000.00]EG	EXISTING GRADE SPOT ELEVATIONS	• [000.00]TW	PROPOSED SPOT ELEVATIONS (TOP OF WALK, BOTTOM OF WALK @ FLOWLINE)
• [000.00]BG	PROPOSED SPOT ELEVATIONS (REFERENCE R-WALL DETAIL) BG-FINISHED SURFACE GRADE AT BACK OF WALL	• [000.00]BW	PROPOSED SPOT ELEVATIONS (TOP OF WALK, BOTTOM OF WALK @ FLOWLINE)
• [000.00]FG	PROPOSED SPOT ELEVATIONS (REFERENCE R-WALL DETAIL) FG-FINISHED SURFACE GRADE AT FRONT OF WALL		
<b>EXISTING SITE SYMBOLS</b>			
	EXISTING SIGN		EXISTING UTILITY POLE
	EXISTING HANDICAP PARKING STALL		EXISTING UTILITY POLE WITH GUY WIRE
	EXISTING WATER VALVE IN BOX		EXISTING STREET LIGHT
	EXISTING WATER VALVE IN MANHOLE		EXISTING TELEPHONE PEDESTAL
	EXISTING WATER SERVICE VALVE		EXISTING ELECTRIC PEDESTAL
	EXISTING WELL		EXISTING ELECTRIC BOX
	EXISTING STORM CATCH BASIN		EXISTING FLOOD LIGHT
	EXISTING STORM CURB INLET		EXISTING TELEPHONE MANHOLE
	EXISTING SQUARE CATCH BASIN		EXISTING CABLE TV PEDESTAL
	EXISTING LIGHT POLE		EXISTING GAS VALVE
	1-1/4" REBAR SET WEIGHING 4.30 LB/FT.		EXISTING HEDGE
	3/4" REBAR SET WEIGHING 1.50 LB/FT.		EXISTING WOODED AREA
	1-1/4" REBAR FOUND		EXISTING MARSH AREA
	3/4" REBAR FOUND		EXISTING DECIDUOUS TREE WITH TRUNK DIAMETER
	2" IRON PIPE FOUND		EXISTING CONIFEROUS TREE
	1" IRON PIPE FOUND		EXISTING SHRUB
	SECTION CORNER		EXISTING STUMP
<b>PROPOSED SITE SYMBOLS</b>			
	PROPOSED SIGN		PROPOSED STORM FIELD INLET - ST FI
	PROPOSED HANDICAP PARKING STALL		PROPOSED LIGHT POLE
	PROPOSED WATER VALVE IN BOX		PROPOSED DRAINAGE FLOW
	PROPOSED WATER VALVE IN MANHOLE		PROPOSED APRON END SECTION
	PROPOSED WATER SERVICE VALVE		SOIL BORING
	PROPOSED WELL		CENTER LINE
	PROPOSED STORM CATCH BASIN - ST CB		PROPOSED CLEANOUT
	PROPOSED STORM CURB INLET - ST CI		PROPOSED DOWNSPOUT TO GRADE W/ SPLASH BLOCK
			PROPOSED DOWNSPOUT TO RISER

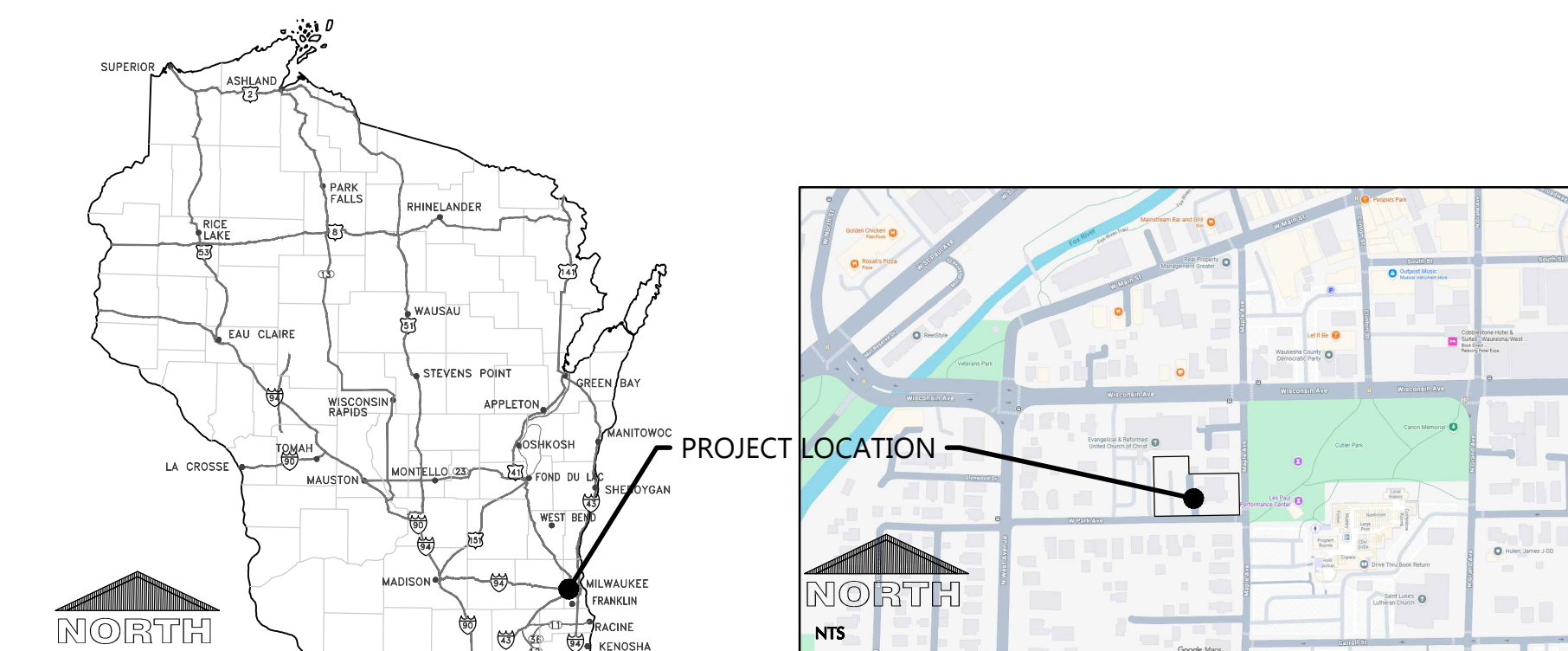
EXISTING LINETYPES	
	EXISTING CHAINLINK FENCE
	EXISTING WOOD FENCE
	EXISTING BARBED WIRE FENCE
	EXISTING CURB AND GUTTER
	EXISTING GUARD RAIL
	EXISTING GROUND CONTOUR
	EXISTING STORM SEWER AND MANHOLE
	EXISTING SANITARY SEWER AND MANHOLE
	EXISTING WATER LINE AND HYDRANT
	INTERIOR PROPERTY LINE
	EXISTING POLISH SEWER AND MANHOLE
	EXISTING PROCESS SEWER AND MANHOLE
	EXISTING CLEAR WATER LINE
	EXISTING UNDERGROUND FIBER OPTIC LINE
	EXISTING UNDERGROUND ELECTRIC CABLE
	EXISTING UNDERGROUND TELEPHONE CABLE
	EXISTING UNDERGROUND GAS LINE
	EXISTING OVERHEAD UTILITY LINE
	RAILROAD TRACKS
	RIGHT-OF-WAY LINE

PROPOSED LINETYPES	
	PROPOSED CHAINLINK FENCE
	PROPOSED WOOD FENCE
	PROPOSED BARBED WIRE FENCE
	PROPOSED CURB AND GUTTER
	PROPOSED GUARD RAIL
	PROPOSED GROUND CONTOUR
	PROPOSED STORM SEWER AND MANHOLE - ST MH
	PROPOSED SANITARY SEWER AND MANHOLE - SAN MH
	PROPOSED WATER LINE AND HYDRANT
	PROPOSED PROPERTY LINE
	PROPOSED POLISH SEWER AND MANHOLE
	PROPOSED PROCESS SEWER AND MANHOLE
	PROPOSED CLEAR WATER LINE
	PROPOSED UNDERGROUND FIBER OPTIC LINE
	PROPOSED UNDERGROUND ELECTRIC CABLE
	PROPOSED UNDERGROUND TELEPHONE CABLE
	PROPOSED UNDERGROUND GAS LINE
	PROPOSED OVERHEAD UTILITY LINE
	MATCHLINE
	GRADING/SEEDING LIMITS

### PROJECT CONTACTS

<b>OWNER INFORMATION:</b> Promise of Wauk Co Inc. Joe Nettesheim, Director 139 E North Street Waukesha, WI 53188 Phone: (262) 968-2321 ext 100 Email: joe@familypromisewaukeshawi.org	<b>DEVELOPER INFORMATION:</b> VJS Construction Services Brian Griebel W233N2847 Roundy Circle West Pewaukee, WI 53072 Phone: (262) 446-6409 Email: bgriebel@vjs.com	<b>CIVIL:</b> Devin Winter, PE Phone: (920)322-1777 E-mail: devin.winter@excelengineer.com	<b>CITY PLANNER:</b> Doug Koehler Phone: (262)524-3756	<b>CITY ENGINEER:</b> Brandon Schwenn Phone: (262)524-3651 E-mail: bschwenn@waukesha-wi.gov	<b>CITY FIRE MARSHAL:</b> Brian Charlesworth Phone: (262)524-3651	<b>CITY BUILDING INSPECTOR:</b> Kristin Stone Phone: (262)524-3530	<b>CITY DIRECTOR OF PUBLIC WORKS:</b> Alex Damien Phone: (920)524-3600
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### LOCATION MAP



### PROJECT NOTES

#### GENERAL PROJECT NOTES

- ALL DRIVEWAYS AND CURB CUTS TO BE CONSTRUCTED ACCORDING TO LOCAL ORDINANCES. CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL WORK IN ROW PERMITS. NOTIFY CITY ENGINEERING DEPARTMENT 5 DAYS PRIOR TO WORK IN THE CITY RIGHT OF WAY. CONTRACTOR TO CONTACT MAT VINCENT BY EMAIL (MVINCENT@WAUKESHA-WI.GOV) PRIOR TO COMING IN FOR THE PERMIT.
- INSPECTION WILL BE REQUIRED FOR ALL ROW WORK. PLEASE CONTACT MAT VINCENT (MVINCENT@WAUKESHA-WI.GOV) 24-HOURS PRIOR TO SCHEDULE THE REQUIRED INSPECTION.
- CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND COORDINATE WITH CITY DPW PRIOR TO CONSTRUCTION FOR ANY WORK WITHIN THE RIGHT-OF-WAY/TRAFFIC LANES NECESSARY FOR PROPOSED IMPROVEMENTS/UTILITY CONNECTIONS. TRAFFIC (PEDESTRIAN AND VEHICULAR) MUST BE MAINTAINED THROUGHOUT WORK. ALL SIGNAGE EXISTING IN THE ROW SHALL BE RE-ESTABLISHED.
- ALL WORK WITHIN CITY RIGHT OF WAY AND CITY EASEMENTS TO BE IN ACCORDANCE WITH CURRENT CITY STANDARD SPECIFICATIONS AND DETAILS.
- LIMITS OF FINAL CITY STREET PAVEMENT AND CURB AND GUTTER REMOVAL AND REPLACEMENTS TO BE MARKED BY CITY ENGINEERING STAFF IN FIELD.
- CONTRACTOR TO CALL WAUKESHA WATER UTILITY CONTACT MAT KADRICH AT 262-408-3492 AT LEAST 72-HOURS PRIOR TO ANY WORK BEING DONE TO COORDINATE SHUTOFFS OF THE WATER MAIN AS NECESSARY AND HAVE AN INSPECTOR ON SITE.
- ALL SITE IMPROVEMENTS AND CONSTRUCTION SHOWN ON THE PLANS SHALL CONFORM TO THE CITY OF WAUKESHA DEVELOPMENT HANDBOOK & INFRASTRUCTURE SPECIFICATIONS. WHERE THE PLANS DO NOT COMPLY, IT SHALL BE THE SOLE RESPONSIBILITY AND EXPENSE OF THE DEVELOPER TO MAKE REVISIONS TO THE PLANS AND/OR CONSTRUCTED INFRASTRUCTURE TO COMPLY.
- CONTRACTOR SHALL PROVIDE SEWER LATERAL VIDEO TO CITY FOR REVIEW AND APPROVAL. CONTRACTOR TO CONTACT THE CITY ENGINEERING DEPARTMENT FOR THE VIDEO FORMAT. IF LATERAL MAINTENANCE IS NEEDED, THEN THE LATERAL IMPROVEMENTS MAY NEED TO BE INCLUDED AS PART OF THIS PROJECT. THE LATERAL PIPE AND CONNECTION TO THE MAIN LINE MAY NEED TO BE LINED OR RELATED TO REDUCE INFILTRATION INTO THE CITY'S SANITARY SEWER SYSTEM TO IMPROVE THE STRUCTURAL INTEGRITY.
- ALL PLANS HAVE BEEN REVIEWED AND APPROVED BY ENGINEER AND TO THE BEST OF THEIR KNOWLEDGE THE PLANS COMPLY WITH THE REQUIREMENTS OF THE ORDINANCE.

#### CONSTRUCTION STAKING SERVICES

CONSTRUCTION STAKING SHALL BE COMPLETED BY EXCEL ENGINEERING AS REQUESTED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. CONTRACTOR TO CONTACT RYAN WILGREEN AT 920-926-9800 OR RYAN.W@EXCELENGINEER.COM TO GET STAKING PRICE TO INCLUDE IN BID TO OWNER. PAYMENT OF STAKING COSTS ABOVE AND BEYOND THE BASE PRICE DUE TO RE-STAKING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR, NOT THE OWNER. CAD DRAWING FILES AND SURVEY CONTROL WILL NOT BE PROVIDED FOR STAKING PURPOSES.

#### RECORD DRAWING NOTES

A RECORD DRAWING OF THE SANITARY/STORM SEWER FACILITIES SEALED BY A PROFESSIONAL ENGINEER OR REGISTERED LAND SURVEYOR SHALL BE SUBMITTED TO THE ENGINEERING DIVISION. AT MINIMUM THE DRAWING SHOULD INCLUDE:

- RIM/COVER ELEVATION
- INVERT ELEVATION
- DISTANCES
- SLOPES
- MATERIALS
- CONTRACTOR
- INSTALLATION DATES (MONTH AND YEAR COMPLETED)
- ANY NOTES RELATED TO MAJOR FIELD CHANGES (IE ADDITIONAL /DELETED STRUCTURES, ETC.)
- SIGNED AND SEALED BY PROFESSIONAL ENGINEER OR REGISTERED LAND SURVEYOR
- AUTOCAD DRAWING FOR IMPORTING INTO GIS

A REDLINED COPY OF THE PLANS WITH THE PROPOSED INFORMATION CROSSED OUT AND THE ACTUAL INFORMATION NEXT TO IT IS ACCEPTABLE AND HELPS THE REVIEW PROCESS.

CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL NECESSARY INFORMATION TO THE ENGINEER TO ACCURATELY COMPLETE THE RECORD DRAWINGS. IF NEEDED, CONTRACTOR SHALL COORDINATE WITH THE ENGINEER/SURVEYOR AS NEEDED FOR SURVEYOR TO SURVEY NECESSARY INFORMATION FOR RECORD DRAWING COMPLETION. COST TO SURVEY FOR THE RECORD DRAWING SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

#### SITE BENCHMARKS

- SOUTHWEST CORNER OF INTERSECTION OF MAPLE AVE & S. PARK AVE  
HYDRANT  
LOCATION: ARROW ON HYDRANT  
ELEVATION: 826.59 (NAVD88)



Always a Better Plan

100 Camelot Drive  
Fond du Lac, WI 54935  
920-926-9800  
excelengineer.com

#### PROJECT INFORMATION

PROPOSED NEW HOUSING FOR:  
**FAMILY PROMISE**  
600 MAPLE AVENUE • WAUKESHA, WI 53186

PROFESSIONAL SEAL



#### SHEET DATES

ISSUED FOR APPROVAL

IFA MAY 22, 2026

#### JOB NUMBER

250421000

#### SHEET NUMBER

**C0.1**

# CIVIL SPECIFICATIONS

## DIVISION 31 EARTH WORK

### 31 10 00 SITE CLEARING (DEMOLITION)

- CONTRACTOR SHALL CALL DIGGERS HOT LINE AND CONDUCT A PRIVATE UTILITY LOCATE AS REQUIRED TO ENSURE THAT ALL UTILITIES HAVE BEEN LOCATED BEFORE STARTING SITE DEMOLITION. DESIGN ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN PLAN AND FIELD CONDITIONS PRIOR TO CONSTRUCTION.
- CONTRACTOR TO FIELD TELEVISION ALL EXISTING SANITARY AND STORM LATERALS THAT ARE SCHEDULED TO BE RE-USED AND/OR CONNECTED TO ON SITE AT TIME OF DEMOLITION. THE TELEVISION SHALL BE COMPLETED TO ENSURE THE EXISTING LATERALS) ARE FREE OF OBSTRUCTIONS AND IN SOUND STRUCTURAL CONDITION. TELEVISION OF THESE LATERALS) MUST BE COMPLETED AT BEGINNING OF CONSTRUCTION AND DESIGN ENGINEER SHALL BE NOTIFIED OF ANY PIPE OBSTRUCTIONS AND/OR STRUCTURAL DEFICIENCIES IMMEDIATELY AFTER COMPLETION OF FIELD TELEVISION.
- DEMOLITION PLAN IS AN OVERVIEW OF DEMOLITION TO TAKE PLACE ON SITE. CONTRACTOR TO FIELD VERIFY EXISTING SITE CONDITIONS PRIOR TO BIDDING. CONTRACTOR SHALL REMOVE, REPLACE, OR DEMOLISH ALL ITEMS AS NEEDED DURING CONSTRUCTION.
- CONTRACTOR TO PROTECT EXISTING IMPROVEMENTS THAT ARE SCHEDULED TO REMAIN. ANY DAMAGE TO EXISTING FACILITIES SHALL BE REPAIRED AT CONTRACTORS EXPENSE.
- ALL CONCRETE NOTED TO BE REMOVED SHALL BE REMOVED TO THE NEAREST CONTROL JOINT.

### 31 20 00 EARTH MOVING

- CONTRACTOR SHALL CALL DIGGERS HOT LINE AND CONDUCT A PRIVATE UTILITY LOCATE AS REQUIRED TO ENSURE THAT ALL UTILITIES HAVE BEEN LOCATED BEFORE STARTING EXCAVATION. DESIGN ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN PLAN AND FIELD CONDITIONS PRIOR TO CONSTRUCTION.
- PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT FOR ALL EXCAVATION, GRADING, FILL AND BACKFILL WORK AS REQUIRED TO COMPLETE THE GENERAL CONSTRUCTION WORK. ALL EXCAVATION AND BACKFILL FOR ELECTRICALS AND MECHANICALS ARE THE RESPONSIBILITY OF THE RESPECTIVE CONTRACTOR UNLESS OTHERWISE SPECIFIED IN THE BID DOCUMENTS.
- ALL ORGANIC TOPSOIL INSIDE THE BUILDING AREA, UNDER PAVED AREAS, AND AT ALL FILL AREAS SHALL BE REMOVED. PROOF ROLL SUBGRADES BEFORE PLACING FILL WITH HEAVY PNEUMATIC-TIRED EQUIPMENT, SUCH AS A FULLY-LOADED TANDEM AXLE DUMP TRUCK, TO IDENTIFY SOFT POCKETS AND AREAS OF EXCESS YIELDING. CONTRACTOR SHALL VERIFY TOPSOIL DEPTHS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REVIEW AND FOLLOW THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND ACCOUNT FOR EXISTING CONDITIONS PRIOR TO SUBMITTING BID FOR THE PROJECT. EXCESS MATERIALS SHALL BE REMOVED FROM THE SITE UNLESS OTHERWISE DIRECTED IN THE PLANS OR BY LOCAL ZONING REQUIREMENTS.
- PLACE AND COMPACT FILL MATERIAL IN LAYERS TO REQUIRED ELEVATIONS, UNIFORMLY MOISTEN OR AERATE SUBGRADE AND EACH SUBSEQUENT FILL OR BACKFILL LAYER BEFORE COMPACTION AS RECOMMENDED TO ACHIEVE SPECIFIED DRY DENSITY. REMOVE AND REPLACE, OR SCARIFY AND AIR DRY, OTHERWISE SATISFACTORY SOIL MATERIAL THAT IS TOO WET TO COMPACT TO SPECIFIED DRY DENSITY.
- PLACE PROTECTIVE FILL MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4" IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS.
- COMPACT THE SOIL TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF MAXIMUM DRY DENSITY ACCORDING TO ASTM D 698, STANDARD PROCTOR TEST. FILL MAY NOT BE PLACED ON FROZEN GROUND AND NO FROZEN MATERIALS MAY BE USED FOR BACK FILL. APPLY THE MORE STRINGENT REQUIREMENTS WHEN COMPARING BETWEEN THE FOLLOWING AND THE GEOTECHNICAL REPORT.
  - UNDER FOUNDATIONS - SUBGRADE, AND EACH LAYER OF BACKFILL OR FILL MATERIAL, TO NOT LESS THAN 98 PERCENT.
  - UNDER INTERIOR SLAB-ON-GRADE WHERE GROUNDWATER IS MORE THAN 3 FEET BELOW THE SLAB - PLACE A DRAINAGE COURSE LAYER OF 3/4" CRUSHED STONE, WITH NO MORE THAN 95 PERCENT, ON FOUNDATION PLANS ON PREPARED SUBGRADE. COMPACT THE SUBGRADE AND DRAINAGE COURSE TO NOT LESS THAN 95 PERCENT.
  - UNDER INTERIOR SLAB-ON-GRADE WHERE GROUNDWATER IS WITHIN 3 FEET OF THE SLAB SURFACE- PLACE A DRAINAGE COURSE LAYER OF CLEAN 3/4" CRUSHED STONE, WITH NO MORE THAN 95% FINES. PER THICKNESS INDICATED ON FOUNDATION PLANS ON PREPARED SUBGRADE. COMPACT THE SUBGRADE AND DRAINAGE COURSE TO NOT LESS THAN 95 PERCENT.
  - UNDER EXTERIOR CONCRETE AND ASPHALT PAVEMENTS - COMPACT THE SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL TO NOT LESS THAN 95 PERCENT.
  - UNDER SLOPES - COMPACT SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL TO NOT LESS THAN 95 PERCENT.
  - UNDER LAWN OR UNPAVED AREAS - COMPACT SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL, TO NOT LESS THAN 85 PERCENT.
- CONTRACTOR SHALL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY TO PERFORM FIELD TESTS AND INSPECTIONS. CONTRACTOR SHALL PROVIDE DOCUMENTATION OF PASSING DENSITY TESTING AND PROOF-ROLLING TO ENGINEER UPON REQUEST. IT IS SUGGESTED THAT THE GEOTECHNICAL FIRM USED TO PERFORM THE SUBSURFACE SOIL INVESTIGATION BE ENGAGED FOR THE FIELD QUALITY CONTROL TESTS. THE GEOTECHNICAL REPORT WAS PERFORMED BY GILES ENGINEERING ASSOCIATES, INC IN JULY 2018.
- ALLOW THE TESTING AGENCY TO TEST AND INSPECT SUBGRADES AND EACH FILL OR BACKFILL LAYER. PROCEED WITH SUBSEQUENT EARTHWORK ONLY AFTER TEST RESULTS FOR PREVIOUSLY COMPLETED WORK COMPLY WITH REQUIREMENTS. PROVIDE ONE TEST FOR EVERY 2000-SQUARE FEET OF PAVED AREA OR BUILDING SLAB. AND ONE TEST FOR EACH SPREAD FOOTING, AND ONE TEST FOR EVERY 50 LINEAR FEET OF WALL, STRIP FOOTING.
- WHEN THE TESTING AGENCY REPORTS THAT SUBGRADES, FILLS, OR BACKFILLS HAVE NOT ACHIEVED DEGREE OF COMPACTION SPECIFIED, SCARIFY AND MOISTEN OR AERATE, OR REMOVE AND REPLACE SOIL, TO DEPTH REQUIRED; RECOMPACT AND RETEST UNTIL SPECIFIED COMPACTION IS OBTAINED.
- THE BUILDING SITE SHALL BE GRADED TO PROVIDE DRAINAGE AWAY FROM THE BUILDING AS INDICATED ON THE PLANS. SITE EARTHWORK SHALL BE GRADING TO WITHIN 0.10' OF REQUIRED EARTHWORK ELEVATIONS ASSUMING POSITIVE DRAINAGE IS MAINTAINED IN ACCORDANCE WITH THE GRADING PLAN.

### 31 30 00 EROSION CONTROL/STORMWATER MANAGEMENT

- THE GRADING PLAN REFLECTS LESS THAN 1 ACRE OF DISTURBED AREA. THE SITE IS THEREFORE EXEMPT FROM WISCONSIN DEPARTMENT OF NATURAL RESOURCES NR 216 NOTICE OF INTENT REQUIREMENTS. THE DESIGN ENGINEER SHALL PREPARE AN EROSION CONTROL PLAN TO MEET NR 151.105 CONSTRUCTION SITE PERFORMANCE STANDARDS FOR NON-PERMITTED SITES.
- EROSION AND SEDIMENT CONTROL IMPLEMENTED DURING CONSTRUCTION SHALL STRICTLY COMPLY WITH THE GUIDELINES AND REQUIREMENTS SET FORTH IN WISCONSIN ADMINISTRATIVE CODE (W.A.C.) NR 151. THE STATE OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES RUNOFF MANAGEMENT PERFORMANCE STANDARDS. TECHNICAL STANDARDS PUBLISHED BY THE WISCONSIN DNR SHALL ALSO BE UTILIZED TO IMPLEMENT THE REQUIRED PERFORMANCE STANDARDS. THE METHODS AND TYPES OF EROSION CONTROL WILL BE DEPENDANT ON THE LOCATION AND TYPE OF WORK INVOLVED. ALL SEDIMENT CONTROL MEASURES SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION, AND INSTALLED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL. BELOW IS A LIST OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES TO ACHIEVE THE PERFORMANCE STANDARDS REQUIRED.
  - SILT FENCE SHALL BE PLACED ON SITE AT LOCATIONS SHOWN ON THE EROSION CONTROL PLAN. SILT FENCE SHALL ALSO BE PROVIDED AROUND THE PERIMETER OF ALL SOIL STOCKPILES THAT WILL EXIST FOR MORE THAN 7 DAYS. FOLLOW PROCEDURES FOUND IN WISCONSIN DNR TECHNICAL STANDARD 1068 (CURRENT EDITION).
  - DITCH CHECKS SHALL BE PROVIDED TO REDUCE THE VELOCITY OF WATER FLOWING IN DITCH BOTTOMS. PLACE AT LOCATIONS SHOWN ON THE EROSION CONTROL PLAN. FOLLOW PROCEDURES FOUND IN WISCONSIN DNR TECHNICAL STANDARD 1062 (CURRENT EDITION).
  - STONE TRACKING PADS AND TRACKOUT CONTROL PRACTICES SHALL BE PLACED AT ALL CONSTRUCTION SITE ENTRANCES AND SHALL BE INSTALLED PRIOR TO ANY TRAFFIC LEAVING THE CONSTRUCTION SITE. SEE THE EROSION CONTROL PLAN FOR LOCATIONS. THE AGGREGATE USED FOR THE STONE TRACKING PAD SHALL BE 3/8" TO 3/4" INCH CLEAR OR WASHED STONE AND SHALL BE PLACED IN A LAYER AT LEAST 12 INCHES THICK. THE STONE SHALL BE UNDERLAIN WITH A WIDESPREAD GEOTEXTILE FABRIC AS NEEDED. THE TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT (12" MIN WIDTH) AND SHALL BE A MINIMUM OF 50 FEET LONG. SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. OTHER TRACKOUT CONTROL PRACTICES INCLUDING STABILIZED WORK SURFACES, MANUFACTURED TRACKOUT CONTROL DEVICES, TIRE WASHING, AND STREET/PAVEMENT CLEANING SHALL BE IMPLEMENTED AS NECESSARY TO MITIGATE THE TRACKOUT OF SEDIMENT OFFSITE. FOLLOW PROCEDURES FOUND IN WISCONSIN DNR TECHNICAL STANDARD 1057 (CURRENT EDITION).
  - STORM DRAIN INLET PROTECTION SHALL BE PROVIDED FOR ALL NEW AND DOWNSTREAM STORM CATCH BASINS AND CURB INLETS. TYPE D PROTECTION SHOULD BE PROVIDED AND SHALL BE IN CONFORMANCE WITH WISCONSIN DNR TECHNICAL STANDARD 1060 (CURRENT EDITION).
  - DUST CONTROL MEASURES SHALL BE PROVIDED TO REDUCE OR PREVENT THE SURFACE AND AIR TRANSPORT OF DUST DURING CONSTRUCTION. CONTROL MEASURES INCLUDE APPLYING MULCH AND ESTABLISHING VEGETATION, WATER SPRAYING, SURFACE ROUGHENING, APPLYING POLYMERS, SPRAY-ON TACKIFIERS, CHLORIDES, AND BARRIERS. SOME SITES MAY REQUIRE AN APPROACH THAT UTILIZES A COMBINATION OF MEASURES FOR DUST CONTROL. FOLLOW PROCEDURES FOUND IN WISCONSIN DNR TECHNICAL STANDARD 1068 (CURRENT EDITION).
  - THE USE, STORAGE, AND DISPOSAL OF CHEMICALS, CEMENT, AND OTHER COMPOUNDS AND MATERIALS USED ON SITE SHALL BE MANAGED DURING THE CONSTRUCTION PERIOD TO PREVENT THEIR TRANSPORT BY RUNOFF INTO WATERS OF THE STATE.
  - CONTRACTOR SHALL PROVIDE AN OPEN AGGREGATE CONCRETE TRUCK WASHOUT AREA ON SITE. CONTRACTOR TO ENSURE THAT CONCRETE WASHOUT SHALL BE CONTAINED TO THIS DESIGNATED AREA AND NOT BE ALLOWED TO RUN INTO STORM INLETS OR INTO THE OVERLAND STORMWATER DRAINAGE SYSTEM. WASHOUT AREA SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION.
  - TEMPORARY SITE RESTORATION SHALL TAKE PLACE IN DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH LAND DISTURBING ACTIVITIES WILL NOT BE PERFORMED FOR A PERIOD GREATER THAN 14 DAYS AND REQUIRES VEGETATIVE COVER FOR LESS THAN ONE YEAR. THIS TEMPORARY SITE RESTORATION REQUIREMENT ALSO APPLIES TO SOIL STOCKPILES THAT EXIST FOR MORE THAN 7 DAYS. PERMANENT RESTORATION APPLIES TO AREAS WHERE PERENNIAL VEGETATIVE COVER IS NEEDED TO PERMANENTLY STABILIZE AREAS OF EXPOSED SOIL. PERMANENT STABILIZATION SHALL OCCUR WITHIN 3 WORKING DAYS OF FINAL GRADING. TOPSOIL, SEED, AND MULCH SHALL BE IN GENERAL CONFORMANCE WITH TECHNICAL STANDARDS 1058 AND 1059 AND SHALL MEET THE SPECIFICATIONS FOUND IN THE LANDSCAPING AND SITE STABILIZATION SECTION OF THIS CONSTRUCTION DOCUMENT. ANY SOIL EROSION THAT OCCURS AFTER FINAL GRADING AND/OR FINAL STABILIZATION MUST BE REPAIRED AND THE STABILIZATION WORK REDONE.
  - IF SITE DEWATERING IS REQUIRED FOR PROPOSED CONSTRUCTION ACTIVITIES, ALL SEDIMENT LADEN WATER GENERATED DURING THE DEWATERING PROCESS SHALL BE TREATED TO REMOVE SEDIMENT PRIOR TO DISCHARGING OFF-SITE OR TO WATERS OF THE STATE. FOLLOW ALL PROCEDURES FOUND IN TECHNICAL STANDARD 1061.
  - ALL OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION WORK OR A STORM EVENT SHALL BE CLEANED UP BY THE END OF EACH WORKING DAY. DUST CONTROL REQUIREMENTS SHALL BE FOLLOWED PER WI DNR TECHNICAL STANDARD 1068 (CURRENT EDITION). FLUSHING SHALL NOT BE ALLOWED.
- ALL EROSION CONTROL DEVICES SHALL AT A MINIMUM BE INSPECTED EVERY 7 CALENDAR DAYS OR EVERY 14 DAYS AND WITHIN 24 HOURS OF THE END OF A RAIN EVENT OF 0.5" OR MORE. MAINTENANCE SHALL BE PERFORMED PER WISCONSIN ADMINISTRATIVE CODE (W.A.C.) NR 151.105 STORMWATER MANAGEMENT TECHNICAL STANDARD REQUIREMENTS.
- EROSION CONTROL MEASURES THAT ARE NOT BEING SERVED HAVE ESTABLISHED VEGETATIVE COVER.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL LOCAL EROSION CONTROL PERMITS.

## DIVISION 32 EXTERIOR IMPROVEMENTS

### 32 10 00 AGGREGATE BASE & ASPHALT PAVEMENT

- CONTRACTOR TO PROVIDE COMPACTED AGGREGATE BASE AND HOT MIX ASPHALT PAVEMENT WHERE INDICATED ON THE PLANS. ALL AGGREGATE PROVIDED MUST COMPLY WITH SECTION 305 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION. PROVIDE HOT MIX ASPHALT MIXTURE TYPE PER SECTION 460 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION. CONTRACTOR SHALL OBTAIN AND REVIEW SOILS REPORT FOR RECOMMENDATIONS FOR GEO-GRID / GEOTEXTILE BUILT UP CRUSHED AGGREGATE (IF APPLICABLE). CONTRACTOR TO PROVIDE AGGREGATE BASE AND HOT MIX ASPHALT PAVEMENT TYPES AND DEPTHS AS INDICATED BELOW:
 

STANDARD ASPHALT PAVING SECTION	HEAVY ASPHALT PAVING SECTION
1-1/2" SURFACE COURSE (5 LT 58-285)	1-1/2" SURFACE COURSE (5 LT 58-285)
(WISDOT 455.2.5 TACK COAT (STAGED PAVING)	WISDOT 455.2.5 TACK COAT (STAGED PAVING)
2" BINDER COURSE (4 LT 58-285)	2-1/2" BINDER COURSE (4 LT 58-285)
ONSITE PULVERIZED ASPHALT	ONSITE PULVERIZED ASPHALT
10" OF 1-1/4" EX. CRUSHED AGGREGATE (MIN)	12" OF 1-1/4" EX. CRUSHED AGGREGATE (MIN)
- PUBLIC ROADWAY ASPHALT PAVING SECTION
 

1-1/2" SURFACE COURSE (5 LT 58-285)
(WISDOT 455.2.5 TACK COAT (STAGED PAVING)
2" UPPER BINDER COURSE (4 LT 58-285)
2-1/2" LOWER BINDER COURSE (5 LT 58-285)
14-1/2" OF 1-1/4" CRUSHED AGGREGATE

- CONTRACTOR TO COMPACT THE AGGREGATE BASE, ASPHALT BINDER COURSE, AND ASPHALT SURFACE COURSE TO AN AVERAGE DENSITY PER WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION. ALL ASPHALT PAVEMENT AREAS SHALL BE PAVED TO WITHIN 0.05' OF DESIGN SURFACE GRADES WITH POSITIVE DRAINAGE BEING MAINTAINED IN ACCORDANCE WITH DESIGN PLANS. A MINIMUM OF 1% SLOPE SHALL BE MAINTAINED IN ALL ASPHALT PAVEMENT AREA.
- HOT MIX ASPHALT CONSTRUCTION TO BE PROVIDED PER MORE STRINGENT REQUIREMENTS OF GEOTECHNICAL REPORT OR CONSTRUCTION DOCUMENTS.
- CONTRACTOR TO PROVIDE 4" WIDE YELLOW PAINTED STRIPING FOR PARKING STALLS, TRAFFIC LANES, AND NO PARKING AREAS. YELLOW PAINT MARKINGS SHALL ALSO BE PROVIDED FOR H.C. ACCESSIBLE SYMBOLS, TRAFFIC ARROWS, AND TRAFFIC MESSAGES.

### 32 20 00 CONCRETE AND AGGREGATE BASE

- CONTRACTOR TO PROVIDE CRUSHED AGGREGATE BASE AND CONCRETE WHERE INDICATED ON THE PLANS.
- ALL AGGREGATE PROVIDED MUST COMPLY WITH SECTION 305 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION. ALL AGGREGATE PLACED MUST BE COMPACTED TO AN AVERAGE DENSITY PER WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- DESIGN AND CONCRETE SHALL BE CAST IN-PLACE EXTERIOR CONCRETE FLAT WORK SHALL CONFORM TO ACI 330R-08 & ACI 318-08.
- EXTERIOR CONCRETE FLAT WORK CONSTRUCTION TO BE PROVIDED PER MORE STRINGENT REQUIREMENTS OF THE GEOTECHNICAL REPORT OR THIS SPECIFICATION. CONCRETE FLAT WORK CONSTRUCTION IS AS FOLLOWS:
  - SIDEWALK CONCRETE - 4" OF CONCRETE OVER 4" OF 3/4" CRUSHED AGGREGATE BASE. CONTRACTION JOINTS SHALL CONSIST OF 1/8" WIDE BY 1" DEEP TYPICAL CONTROL JOINT WHERE INDICATED ON THE PLANS.
    - NON-DRIVEWAY LOCATIONS - 4" OF CONCRETE OVER 4" OF 3/4" CRUSHED AGGREGATE BASE.
    - NON-DRIVEWAY LOCATIONS - 6" OF CONCRETE OVER 4" OF 3/4" CRUSHED AGGREGATE BASE.
  - CONTRACTION JOINTS SHALL CONSIST OF 1/8" WIDE BY 1" DEEP TOOLED JOINT WHERE INDICATED ON THE PLANS.
- DUMPS/TER PAD/APRON CONCRETE - 8" OF CONCRETE OVER 6" OF AGGREGATE BASE OVER GEOTEXTILE FABRIC (MIRAFI 150N OR EQ).
  - CONCRETE SHALL BE STEEL REINFORCED WITH THE FOLLOWING AND PLACED IN THE UPPER 1/3 TO 1/2 OF THE SLAB:
    - THE BARS AT ALL CONTRACTION JOINTS OF THE CONCRETE. THE BARS SHALL BE #4 REBAR 30" LONG PLACED AT 30" O.C.
  - DUMPS/TER PAD CONCRETE JOINTING SHALL BE AS FOLLOWS:
    - CONTRACTION SAWCUT JOINT - CONTRACTOR SHALL PROVIDE A SAWCUT JOINT AT MAXIMUM SPACING OF 15' ON CENTER. SAWCUT SHALL BE 2" IN DEPTH.
    - TYPICAL POUR CONTROL JOINT - POUR CONTROL JOINT SHALL BE PROVIDED WITH 1-1/4" DIAMETER BY 20" LONG SMOOTH DOWEL PLACED AT 12" O.C. ONE HALF OF THE DOWEL SHALL BE GREASED. GREENSTREAK 9" SPEED DOWEL TUBES SHALL BE USED.
- HEAVY DUTY CONCRETE (TRUCK TRAFFIC) - 6" OF CONCRETE OVER 4" OF 3/4" CRUSHED AGGREGATE OVER GEOTEXTILE FABRIC (MIRAFI 150N OR EQ). REFER TO CITY DETAIL ONC20. CONTRACTION JOINTS SHALL BE SAWCUT 1.5" IN DEPTH AND BE SPACED A MAXIMUM OF 15' ON CENTER.

### D. DESIGN MIXES SHALL BE IN ACCORDANCE WITH ASTM C94

- STRENGTH TO BE MINIMUM OF 4,500 PSI AT 28 DAYS FOR EXTERIOR CONCRETE.
- MAXIMUM WATER/CEMENT RATIO SHALL BE 0.45.
- SLUMP SHALL NOT EXCEED 4" FOR EXTERIOR CONCRETE FLAT WORK.
- SLUMP SHALL BE 2.5" OR LESS FOR SLIP-FORMED CURB AND GUTTER.
- SLUMP SHALL BE BETWEEN 1.5" TO 3" FOR NON-SLIP-FORMED CURB AND GUTTER.
- ALL EXTERIOR CONCRETE SHALL BE AIR-ENTRAINED WITH 4% TO 7% AIR CONTENT. NO OTHER ADMIXTURES SHALL BE USED WITHOUT APPROVAL OF EXCEL ENGINEERING, INC. CALCIUM CHLORIDE SHALL NOT BE USED.
- MAXIMUM AGGREGATE SIZE FOR ALL EXTERIOR CONCRETE SHALL BE 0.75 INCHES.
- VERIFY EQUIPMENT CONCRETE PAD SIZES WITH CONTRACTOR REQUIRING PAD. PADS SHALL HAVE FIBERMESH 300 FIBERS AT A RATE OF 1.5 LBS/CU. YD. OR 6 X 6-MI-4 X W1.4 WELDED WIRE MESH WITH MINIMUM 1" INCH COVER. EQUIPMENT PADS SHALL BE 5.5 INCHES THICK WITH 1 INCH CHAMFER UNLESS SPECIFIED OTHERWISE. CONCRETE SHALL BE PROVIDED ON 6" OF 3/4" CRUSHED AGGREGATE BASE. COORDINATE ADDITIONAL PAD REQUIREMENTS WITH RESPECTIVE CONTRACTOR.
- ALL CONCRETE FLAT WORK SURFACES AND CONCRETE CURB FLOWLINES SHALL BE CONSTRUCTED TO WITHIN 0.05' OF DESIGN SURFACE AND FLOWLINE GRADES ASSUMING POSITIVE DRAINAGE IS MAINTAINED IN ACCORDANCE WITH THE DESIGN PLANS.
- CONCRETE FLAT WORK SHALL HAVE CONSTRUCTION JOINTS OR SAW CUT JOINTS PLACED AS INDICATED ON THE PLANS OR PER THIS SPECIFICATION. SAWCUTS SHALL BE DONE AS SOON AS POSSIBLE, BUT NO LATER THAN 24 HOURS AFTER CONCRETE IS PLACED. CONCRETE CURB AND GUTTER JOINTING SHALL BE PLACED EVERY 10' OR CLOSER (6' MIN.). IF CONCRETE PAVEMENT IS ADJACENT TO CONCRETE CURB, JOINTING IN THE PAVEMENT AND CURB SHALL ALIGN. ALL EXTERIOR CONCRETE SHALL HAVE A BROOM FINISH UNLESS NOTED OTHERWISE. A UNIFORM COAT OF A HIGH SOLIDS CURING COMPOUND MEETING ASTM C309 SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES. ALL CONCRETE IS TO BE CURED FOR 7 DAYS. EXTERIOR CONCRETE SHALL BE SEPARATED FROM BUILDINGS WITH CONTINUOUS 0.5 INCH FIBER EXPANSION JOINT AND/OR 0.25 INCH FIBER EXPANSION JOINT AT DECORATIVE MASONRY UNITS.
- ALL REINFORCING BARS SHALL BE ASTM A615 GRADE 60. THICKNESS OF CONCRETE COVER OVER REINFORCEMENT SHALL BE NOT LESS THAN 3" WHERE CONCRETE IS DEPOSITED AGAINST THE GROUND WITHOUT THE USE OF FORMS AND NOT LESS THAN 1.5" FOR UP TO #5 BARS AND 2" FOR #6 TO #10 BARS IN ALL OTHER LOCATIONS. ALL REINFORCING SHALL BE LAPPED 48 DIAMETERS FOR UP TO #6 BARS, 62 DIAMETERS FOR #7 TO #9 BARS, 68 DIAMETERS FOR #10 BARS OR AS NOTED ON THE DRAWINGS AND EXTENDED AROUND CORNERS WITH CORNER BARS. PLACING AND DETAILING OF STEEL REINFORCING AND REINFORCING SUPPORTS SHALL BE IN ACCORDANCE WITH CRSI AND ACI MANUAL AND STANDARD PRACTICES. THE REINFORCEMENT SHALL NOT BE PAINTED AND MUST BE FREE OF GREASE/OIL, DIRT OR DEEP RUST WHEN PLACED IN THE WORK. ALL WELDED WIRE FABRIC SHALL MEET THE REQUIREMENTS OF ASTM A 1064. WELDED WIRE FABRIC SHALL BE PLACED 2" FROM TOP OF SLAB, UNLESS INDICATED OTHERWISE.
- CONTRACTOR SHALL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY TO SAMPLE MATERIALS, PERFORM TESTS, AND SUBMIT TEST REPORTS DURING CONCRETE PLACEMENT. TESTS WILL BE PERFORMED ACCORDING TO ACI 301. CAST AND LABORATORY CURE ONE SET OF FOUR STANDARD CYLINDERS FOR EACH COMPOSITE SAMPLE FOR EACH DAY'S POUR OF EACH CONCRETE MIX EXCEEDING 5 CU. YD. BUT LESS THAN 25 CU. YD. PLUS ONE SET FOR EACH ADDITIONAL 50 CU. YD. OR FRACTION THEREOF. PERFORM COMPRESSIVE-STRENGTH TESTS ACCORDING TO ASTM C 39. TEST TWO SPECIMENS AT 7 DAYS AND TWO SPECIMENS AT 28 DAYS. PERFORM SLUMP TESTING ACCORDING TO ASTM C 143. PROVIDE ONE TEST AT POINT OF PLACEMENT FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIX. PERFORM ADDITIONAL TESTS WHEN CONCRETE CONSISTENCY APPEARS TO CHANGE.
- PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES. IN HOT, DRY, AND WINDY WEATHER, APPLY AN EVAPORATION CONTROL COMPOUND ACCORDING TO MANUFACTURER'S INSTRUCTIONS AFTER SCREEDING AND BULL FLOATING, BUT BEFORE POWER FLOATING AND TROWELLING.
- LIMIT MAXIMUM WATER-CEMENTITIOUS RATIO OF CONCRETE EXPOSED TO FREEZING, THAWING AND DEICING SALTS TO 0.45.
- TEST RESULTS WILL BE REPORTED IN WRITING TO THE DESIGN ENGINEER, READY-MIX PRODUCER, AND CONTRACTOR WITHIN 24 HOURS AFTER TESTS. REPORTS OF COMPRESSIVE STRENGTH TESTS SHALL CONTAIN THE PROJECT IDENTIFICATION NAME AND NUMBER, DATE OF CONCRETE PLACEMENT, NAME OF CONCRETE TESTING SERVICE, CONCRETE TYPE AND CLASS, LOCATION OF CONCRETE BATCH ON SITE, DESIGN COMPRESSIVE STRENGTH AT 28 DAYS, CONCRETE MIX PROPORTIONS AND MATERIALS, COMPRESSIVE BREAKING STRENGTH, AND TYPE OF BREAK FOR BOTH 7-DAY TESTS AND 28-DAY TESTS.

## 32 30 00 LANDSCAPING AND SITE STABILIZATION

- TOPSOIL: CONTRACTOR TO PROVIDE A MINIMUM OF 6" OF TOPSOIL FOR ALL DISTURBED OPEN AREAS, OTHER THAN A LANDSCAPE ISLANDS SHALL BE PROVIDED WITH A MINIMUM OF 10" OF TOPSOIL. REUSE SURFACE SOIL STOCKPILED ON SITE AND SUPPLEMENT WITH IMPORTED OR MANUFACTURED TOPSOIL FROM OFF SITE SOURCES WHEN QUANTITIES ARE INSUFFICIENT. EXCAVATOR SHALL BE RESPONSIBLE FOR ROUGH PLACEMENT OF TOPSOIL TO WITHIN 1" OF FINAL GRADE PRIOR TO LANDSCAPER FINAL GRADING. LANDSCAPER TO PROVIDE PULVERIZING AND FINAL GRADING OF TOPSOIL. PROVIDE SOIL ANALYSIS BY A QUALIFIED SOIL TESTING LABORATORY AS REQUIRED TO VERIFY THE SUITABILITY OF SOIL TO BE USED AS TOPSOIL AND TO DETERMINE THE NECESSARY SOIL AMENDMENTS. TEST SOIL FOR PRESENCE OF ATRAZINE AND INFORM EXCEL ENGINEERING, INC. IF PRESENT PRIOR TO BIDDING PROJECT. TOPSOIL SHALL HAVE A PH RANGE OF 5.5 TO 8, CONTAIN A MINIMUM OF 5 PERCENT ORGANIC MATERIAL CONTENT, AND SHALL BE FREE OF STONES 1 INCH OR LARGER IN DIAMETER. ALL MATERIALS HARMFUL TO PLANT GROWTH SHALL ALSO BE REMOVED. TOPSOIL INSTALLATION: LOOSEN SUBGRADE TO A MINIMUM DEPTH OF 6 INCHES AND REMOVE STONES LARGER THAN 1" IN DIAMETER. ALSO REMOVE ANY STECKS, ROOTS, RUBBISH, AND OTHER EXTRANEOUS MATTER AND DISPOSE OF THEM OFF THE PROPERTY. SPREAD TOPSOIL TO A DEPTH OF 6" BUT NOT LESS THAN WHAT IS REQUIRED TO MEET FINISHED GRADES AFTER LIGHT ROLLING AND UNIFORM SETTLEMENT. DO NOT SPREAD TOPSOIL ON SURGRADE IS FROZEN, MUDDY, OR EXCESSIVELY WET. GRADE PLANTING AREAS TO A SMOOTH, UNIFORM SURFACE PLANE WITH LOOSE, UNIFORMLY FINE TEXTURE. GRADE TO WITHIN 0.05 FEET OF FINISHED GRADE ELEVATION.
- SEEDED LAWNS:
  - PERMANENT LAWN AREAS SHALL BE SEEDDED WITH THE FOLLOWING MIXTURE: 65% KENTUCKY BLUEGRASS BLEND (2.0-2.6 LBS./1,000 S.F.), 20% PERENNIAL RYEGRASS (0.6-0.8 LBS./1,000 S.F.), 15% FINE FESCUE (0.4-0.6 LBS./1,000 S.F.). STRAW AND MULCH SHALL BE LAID AT 100LBS./1,000 S.F. FERTILIZE AS PER SOIL TEST OR APPLY 5-10-10 OR EQUIVALENT AT 5-6 LBS./1,000 S.F. SEE EROSION MATTING SPECIFICATIONS AS REQUIRED. ALL SITE DISTURBED AREAS NOT DESIGNATED FOR OTHER LANDSCAPING AND SITE STABILIZATION METHODS SHALL BE SEEDDED AS PERMANENT LAWN. NO BARE TOPSOIL SHALL BE LEFT ON SITE. FOLLOW PROCEDURES FOUND IN WDNR TECHNICAL STANDARDS 1058 & 1059.
  - ALL PERMANENT AND TEMPORARY STORM WATER CONVEYANCE SWALE BOTTOMS AND SIDE SLOPES SHALL BE SEEDDED WITH THE FOLLOWING MIXTURE: 45% KENTUCKY BLUEGRASS (0.60 LBS./1,000 S.F.), 40% CREeping RED FESCUE (0.50 LBS./1,000 S.F.), AND 15% PERENNIAL RYEGRASS (0.20 LBS./1,000 S.F.). FERTILIZE AS PER SOIL TEST OR APPLY 5-10-10 OR EQUIVALENT AT 5-6 LBS./1,000 S.F. SEE EROSION MATTING SPECIFICATIONS AS REQUIRED. FOLLOW PROCEDURES FOUND IN WDNR TECHNICAL STANDARDS 1058 & 1059.
  - ALL TEMPORARY SEEDING SHALL CONSIST OF THE FOLLOWING MIXTURE: 100% RYEGRASS AT 1.9 LBS./1,000 S.F. STRAW AND MULCH SHALL BE LAID AT 100 LBS./1,000 S.F. FERTILIZE AS PER SOIL TEST OR APPLY 5-10-10 OR EQUIVALENT AT 5-6 LBS./1,000 S.F. SEE EROSION MATTING SPECIFICATIONS AS REQUIRED. FOLLOW PROCEDURES FOUND IN WDNR TECHNICAL STANDARDS 1058 & 1059.
- SEEDED LAWN MAINTENANCE: CONTRACTOR TO PROVIDE MAINTENANCE OF ALL LANDSCAPING FOR A PERIOD OF 90 DAYS FROM THE DATE OF INSTALLATION. AT THE END OF THE MAINTENANCE PERIOD, A HEALTHY, UNIFORM, CLOSE STAND OF GRASS SHOULD BE ESTABLISHED FREE OF WEEDS AND SURFACE IRREGULARITIES. LAWN COVER SHOULD EXCEED 90% AND BARE SPOTS SHOULD NOT EXCEED 5%." CONTRACTOR SHOULD REESTABLISH LAWNS THAT DO NOT COMPLY WITH THESE REQUIREMENTS AND CONTINUE MAINTENANCE UNTIL LAWNS ARE SATISFACTORY.
- EROSION MATTING:
  - CONTRACTOR TO PROVIDE EROSION CONTROL MATTING (NORTH AMERICAN GREEN S150) OR EQUIVALENT ON ALL SLOPES THAT ARE 4:1 AND GREATER. LAWN SEED SHALL BE PLACED BELOW MATTING IN ACCORDANCE WITH SEEDING REQUIREMENTS AND MANUFACTURER SPECIFICATIONS.
  - CONTRACTOR TO PROVIDE EROSION MATTING (NORTH AMERICAN GREEN C125) OR EQUIVALENT IN ALL SWALE BOTTOMS AND SIDE SLOPES AS REQUIRED. LAWN SEED SHALL BE PLACED BELOW MATTING IN ACCORDANCE WITH SEEDING REQUIREMENTS AND MANUFACTURER SPECIFICATIONS.
- TREES AND SHRUBS: FURNISH NURSERY-GROWN TREES AND SHRUBS WITH HEALTHY ROOT SYSTEMS DEVELOPED BY TRANSPLANTING OR ROOT PRUNING. PROVIDE WELL-SHAPED, FULLY BRANCHED, FULLY HEALTHY LOOKING STOCK. STOCK SHOULD ALSO BE FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASSIONS, AND DISFIGUREMENT. USE THE LANDSCAPE PLAN FOR SPECIFIC SPECIE TYPE, SIZE, AND LOCATION.
- TREE AND SHRUB INSTALLATION: EXCAVATE CIRCULAR PITS WITH SIDES SLOPED INWARD. TRIM BARE LEAVING CENTER AREA RAISED SLIGHTLY TO SUPPORT ROOT BALL. EXCAVATE PIT APPROXIMATELY THREE TIMES AS WIDE AS THE ROOT BALL DIAMETER. SET TREES AND SHRUBS PLUMBS AND IN CENTER OF PIT WITH TOP OF BALL 1" ABOVE ADJACENT FINISHED GRADES. PLACE PLANTING SOIL MIX AROUND ROOT BALL IN LAYERS AND TAMP TO SETTLE MIX. WATER ALL PLANTS THOROUGHLY. PROVIDE TEMPORARY STAKING FOR TREES AS REQUIRED.
- TREE AND SHRUB MAINTENANCE/WARRANTY: CONTRACTOR TO PROVIDE MAINTENANCE OF ALL LANDSCAPING FOR A PERIOD OF 90 DAYS FROM THE DATE OF INSTALLATION. MAINTENANCE TO INCLUDE REGULAR WATERING AS REQUIRED FOR SUCCESSFUL PLANT ESTABLISHMENT. CONTRACTOR TO PROVIDE 1 YEAR WARRANTY ON ALL TREES, SHRUBS, AND PERENNIALS.
- H.K. MULCH: PROVIDE 3" MINIMUM THICK BLANKET OF 1.5" MINIMUM TO 2.5" MAXIMUM CRUSHED DECORATIVE STONE AT ALL PLANTING AREAS INDICATED ON THE LANDSCAPE PLAN. INSTALL OVER NON-WOVEN WEED BARRIER FABRIC. COLOR BY OWNER.
- PLASTIC EDGING: INSTALL VALLEY VIEW INDUSTRIES BLACK DIAMOND LAWN EDGING TO SEPARATE ALL PLANTING BEDS FROM LAWN AREAS. EDGING TO BE 5.5" TALL WITH METAL STAKES INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

## DIVISION 33 UTILITIES

### 33 10 00 SITE UTILITIES

- CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES ON SITE. CONTRACTOR TO VERIFY PIPE LOCATIONS, SIZES, AND DEPTHS AT POINT OF PROPOSED CONNECTIONS AND VERIFY PROPOSED UTILITY ROUTES ARE CLEAR (PER CODE) OF ALL EXISTING UTILITIES AND OTHER OBSTRUCTIONS PRIOR TO CONSTRUCTION. COSTS INCURRED FOR FAILURE TO DO SO SHALL BE THE CONTRACTORS RESPONSIBILITY.
- CONTRACTOR TO FIELD TELEVISION ALL EXISTING SANITARY AND STORM LATERALS THAT ARE SCHEDULED TO BE RE-USED AND/OR CONNECTED TO ON SITE. THE TELEVISION SHALL BE COMPLETED TO ENSURE THE EXISTING LATERALS) ARE FREE OF OBSTRUCTIONS AND IN SOUND STRUCTURAL CONDITION. TELEVISION OF THESE LATERALS) SHOULD BE COMPLETED AT BEGINNING OF CONSTRUCTION AND DESIGN ENGINEER SHALL BE NOTIFIED OF ANY PIPE OBSTRUCTIONS AND/OR STRUCTURAL DEFICIENCIES IMMEDIATELY AFTER COMPLETION OF FIELD TELEVISION.
- ALL SANITARY PIPE SHALL BE IN ACCORDANCE WITH MATERIALS SPECIFIED IN TABLE A. ALLOWABLE PIPE MATERIAL SCHEDULE. ALL SANITARY PIPE BELOW PROPOSED & FUTURE BUILDINGS SHALL BE IN ACCORDANCE WITH MATERIALS SPECIFIED IN TABLE A. ALLOWABLE PIPE MATERIAL. INSULATION SHALL BE PROVIDED PER STATE PLUMBING CODES AS NECESSARY BASED ON PROPOSED DEPTH PER PLANS.
- CLEANOUTS SHALL BE PROVIDED FOR THE SANITARY & STORM SERVICES AT LOCATIONS INDICATED ON THE UTILITY PLAN. THE CLEANOUT SHALL CONSIST OF A COMBINATION WYE FITTING IN LINE WITH THE SANITARY/STORM SERVICE WITH THE CLEANOUT LEG OF THE COMBINATION WYE FINISHING STRAIGHT UP. THE CLEANOUT SHALL CONSIST OF A (4" OR 6") VERTICAL PVC PIPE WITH A WATER TIGHT REMOVABLE CLEANOUT PLUG. AN 8" PVC FROST SLEEVE SHALL BE PROVIDED. THE BOTTOM OF THE FROST SLEEVE SHALL TERMINATE 12" ABOVE THE TOP OF THE SANITARY LATERAL OR AT LEAST 6" BELOW THE PREDICTED FROST DEPTH, WHICHEVER IS SHALLOWER. THE CLEANOUT SHALL EXTEND JUST ABOVE THE SURFACE GRADE IN LAWN OR LANDSCAPE AREAS WITH THE FROST SLEEVE TERMINATING AT THE GRADE SURFACE. THE CLEANOUT SHALL EXTEND TO 4 INCHES BELOW SURFACE GRADE IN PAVED SURFACES WITH A 2" JRM (2-141-N) HEAVY DUTY CLEANOUT HOUSING PLACED OVER THE TOP OF THE CLEANOUT FLUSH WITH THE SURFACE GRADE. IN PAVED SURFACES, THE FROST SLEEVE SHALL TERMINATE IN A CONCRETE PAD AT LEAST 6" THICK AND EXTENDING AT LEAST 9" FROM THE SLEEVE ON ALL SIDES, SLOPING AWAY FROM THE SLEEVE. THE CLEANOUT HOUSING SHALL BE CONSTRUCTED PER MANUFACTURERS REQUIREMENTS.
- ALL PROPOSED WATER PIPE SHALL BE IN ACCORDANCE WITH MATERIALS SPECIFIED IN TABLE A. ALLOWABLE PIPE MATERIAL SCHEDULE. 6" MINIMUM COVER SHALL BE PROVIDED OVER ALL WATER PIPING UNLESS OTHERWISE SPECIFIED.
- ALL PROPOSED STORM PIPE SHALL BE IN ACCORDANCE WITH MATERIALS SPECIFIED IN TABLE A. ALLOWABLE PIPE MATERIAL SCHEDULE. ALL PROPOSED STORM PIPE BELOW BUILDINGS SHALL BE IN ACCORDANCE WITH MATERIALS SPECIFIED IN TABLE A. ALLOWABLE PIPE MATERIAL SCHEDULE. SEE UTILITY PLANS FOR ALL STORM PIPE MATERIAL TYPES TO BE USED. PIPE SHALL BE PLACED MIN. 8" HORIZONTALLY FROM FOUNDATION WALLS.
- SANITARY, STORM, AND WATER UTILITY PIPE INVERTS SHALL BE CONSTRUCTED WITHIN 0.10' OF DESIGN INVERT ELEVATIONS ASSUMING PIPE SLOPE AND SEPARATION IS MAINTAINED PER THE UTILITY DESIGN PLANS AND STATE REQUIREMENTS.
- SITE UTILITY CONTRACTOR SHALL RUN SANITARY SERVICE TO A POINT WHICH IS A MAXIMUM OF 5' FROM THE EXTERIOR WALL OF THE FOUNDATION. SITE UTILITY CONTRACTOR SHALL RUN DOWNSPOUT LEADS TO BUILDING FOUNDATION AND UP 6" ABOVE SURFACE GRADE FOR CONNECTION TO DOWNSPOUT FOR ALL DOWNSPOUT TO RISER (DSR) CONNECTIONS. DOWNSPOUTS TO GRADE (DSG) SHALL BE PROVIDED WITH GRASS BLOCKS AT THE DISCHARGE LOCATION. ALL DOWNSPOUT LOCATIONS SHOULD BE VERIFIED WITH ARCHITECTURAL PLANS AND DOWNSPOUT CONTRACTOR/GC PRIOR TO INSTALLATION OF DOWNSPOUT LEADS. DOWNSPOUT LEADS SHALL NOT UNDERMINE BUILDING FOUNDATIONS. SITE UTILITY CONTRACTOR SHALL RUN WATER SERVICE TO A POINT WITHIN THE FOUNDATION SPECIFIED BY THE PLUMBING PLANS. CONTRACTOR TO CUT AND CAP WATER SERVICE 12" ABOVE FINISHED FLOOR ELEVATION.
- ALL UTILITIES SHALL BE INSTALLED WITH PLASTIC COATED TRACER WIRE (10 TO 14 GAUGE SOLID COPPER, OR COPPER COATED STEEL WIRE), PLASTIC WIRE MAY BE TAPED TO PLASTIC WATER OR SEWER PIPE. IF ATTACHED, THE TRACER WIRE SHALL BE SECURED EVERY 6" TO 20 FEET AND AT ALL BENDS. TRACER WIRE SHALL HAVE ACCESS POINTS AT LEAST EVERY 300 FEET. TRACER WIRE SHALL TERMINATE IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS AT GRADE OR IN TERMINATION BOX PER LOCAL/STATE REQUIREMENTS.
- ALL UTILITIES SHALL BE INSTALLED PER STATE, LOCAL, AND INDUSTRY STANDARDS. WATER, SANITARY, AND STORM SEWER SHALL BE INSTALLED PER "STANDARD SPECIFICATION FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN". THE EXCEL ENGINEERING DESIGN ENGINEER SHALL BE RESPONSIBLE FOR OBTAINING STATE PLUMBING REVIEW APPROVAL, (IF REQUIRED). THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL OTHER PERMITS REQUIRED TO INSTALL WATER, SANITARY AND STORM SEWER.
- SEE PLANS FOR ALL OTHER UTILITY SPECIFICATIONS AND DETAILS.

Table A: Allowable Pipe Material Schedule

Utility	Material	Pipe Code	Fitting Code	Joint Code
Water Service	C300 (DR-14)	AHWA C300, ASTM D1785, ASTM D2241	AWWA C110, AWWA C153, ASTM D2464, ASTM D2466, ASTM D2467, ASTM D3311, ASTM F403, ASTM F1336, ASTM F1866	Joint: ASTM D3139 Integral Bell & Spigot Elastomeric Seal: ASTM F477
Sanitary Sewer	SDR 35 PVC	ASTM D1785, ASTM D2665, ASTM D3034, ASTM F891	ASTM F1336	Push On: ASTM D3212 for Tightness Elastomeric Gasket: ASTM F477
Storm Sewer	SDR 35 PVC	ASTM D1785, ASTM D2665, ASTM D3034	ASTM F1336	Push On: ASTM D3212 for Tightness Elastomeric Seal: ASTM F477

## CONSTRUCTION SEQUENCE

PHASE	TYPE OF ACTION
1. PRE-CONSTRUCTION ACTION	<ol style="list-style-type: none"> <li>CONTRACTOR TO CALL DIGGERS HOTLINE AT A MINIMUM OF 3 DAYS PRIOR TO CONSTRUCTION.</li> <li>CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF ALL UTILITIES WITHIN THE PROJECT AREA PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF DISCREPANCIES.</li> <li>PLACE ALL SILT FENCE AND INLET PROTECTION.</li> <li>CONSTRUCT PERMANENT STORMWATER CONVEYANCE SYSTEMS.</li> <li>CONSTRUCT ANY TEMPORARY STORMWATER CONVEYANCE SYSTEMS AS NEEDED.</li> <li>STABILIZE ALL TEMPORARY AND PERMANENT EROSION CONTROL AND STORMWATER CONVEYANCE SYSTEMS BEFORE TOPSOIL CAN BE STRIPPED.</li> </ol>
2. CONSTRUCTION ACTION	<ol style="list-style-type: none"> <li>SITE DEMOLITION AS REQUIRED.</li> <li>STRIP AND RELOCATE TOPSOIL TO THE DESIGNATED TOPSOIL STOCKPILE. LOCATION BY OWNER. FINAL LOCATION BY CONTRACTOR. PROVIDE PERIMETER SILT FENCE UNTIL STABILIZED.</li> <li>BEGIN MASS EARTH WORK FOR THE BUILDING PAD AND PAVEMENT AREAS.</li> <li>CONSTRUCT ANY REMAINING STORMWATER CONVEYANCE SYSTEMS, AND INSTALL ALL OTHER UTILITIES ON SITE.</li> <li>DIG AND POUR ALL BUILDING FOOTINGS.</li> <li>PLACE GRAVEL FOR ALL PROPOSED PAVEMENT AREAS, INCLUDING FIRE LANES.</li> <li>TOPSOIL, SEED, AND MULCH ALL DISTURBED AREAS OUTSIDE THE BUILDING AND PROPOSED PAVEMENT AREAS.</li> <li>CONSTRUCT BUILDING.</li> <li>PAVE DRIVEWAYS AND PARKING AREAS.</li> <li>TOPSOIL, SEED, AND MULCH ALL OTHER DISTURBED AREAS. PLACE EROSION MATTING.</li> </ol>
3. POST CONSTRUCTION ACTION	<ol style="list-style-type: none"> <li>CONTRACTOR TO REMOVE TEMPORARY EROSION CONTROL MEASURES UPON SITE STABILIZATION.</li> </ol>

\*\*CONTRACTOR TO FOLLOW THE EROSION CONTROL SPECIFICATIONS FOR CONSTRUCTION



NOTE: PROPERTY LINES AND EASEMENTS SHOWN ON THIS SURVEY WERE DRAFTED FROM INFORMATION CONTAINED IN TITLE COMMITMENT NO. 18-25-44976, BY FIRST AMERICAN TITLE INSURANCE COMPANY, DATED MARCH 20, 2025. AN UPDATED PLAT OF SURVEY, CERTIFIED SURVEY MAP OR ALTA SURVEY HAS NOT BEEN AUTHORIZED.

NOTE: SURFACE INDICATIONS OF UTILITIES ALONG WITH DIGGER'S HOTLINE MARKINGS PER TICKET NO. 20255100384 HAVE BEEN SHOWN. SIZES AND ELEVATION OF UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON FIELD MEASUREMENTS OF VISIBLE STRUCTURES IN COMBINATION WITH AVAILABLE DATA PROVIDED TO EXCEL ENGINEERING. EXCEL ENGINEERING MAKES NO GUARANTEE THAT ALL THE EXISTING UTILITIES IN THE SURVEYED AREA HAVE BEEN SHOWN NOR THAT THEY ARE IN THE EXACT LOCATION INDICATED. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THIS PLAN IS IN NO WAY A SUBSTITUTE FOR UTILITY LOCATING AT THE TIME OF EXCAVATION.


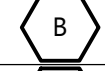
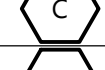
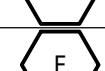


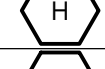
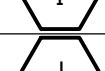
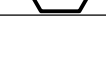

NOTE: THE FIELD WORK WAS COMPLETED ON DECEMBER 18, 2025.

NOTE: AT THE TIME OF THE SURVEY FIELD WORK, THERE WAS APPROXIMATELY 3"-4" OF SNOW AND STOCKPILED SNOW COVERING THE SUBJECT PROPERTY, AS A RESULT OF THE SNOW COVER, EXCEL MAKES NO GUARANTEE THAT ALL IMPROVEMENTS AND UTILITIES HAVE BEEN SHOWN ON THIS SURVEY.

**LEGEND:**

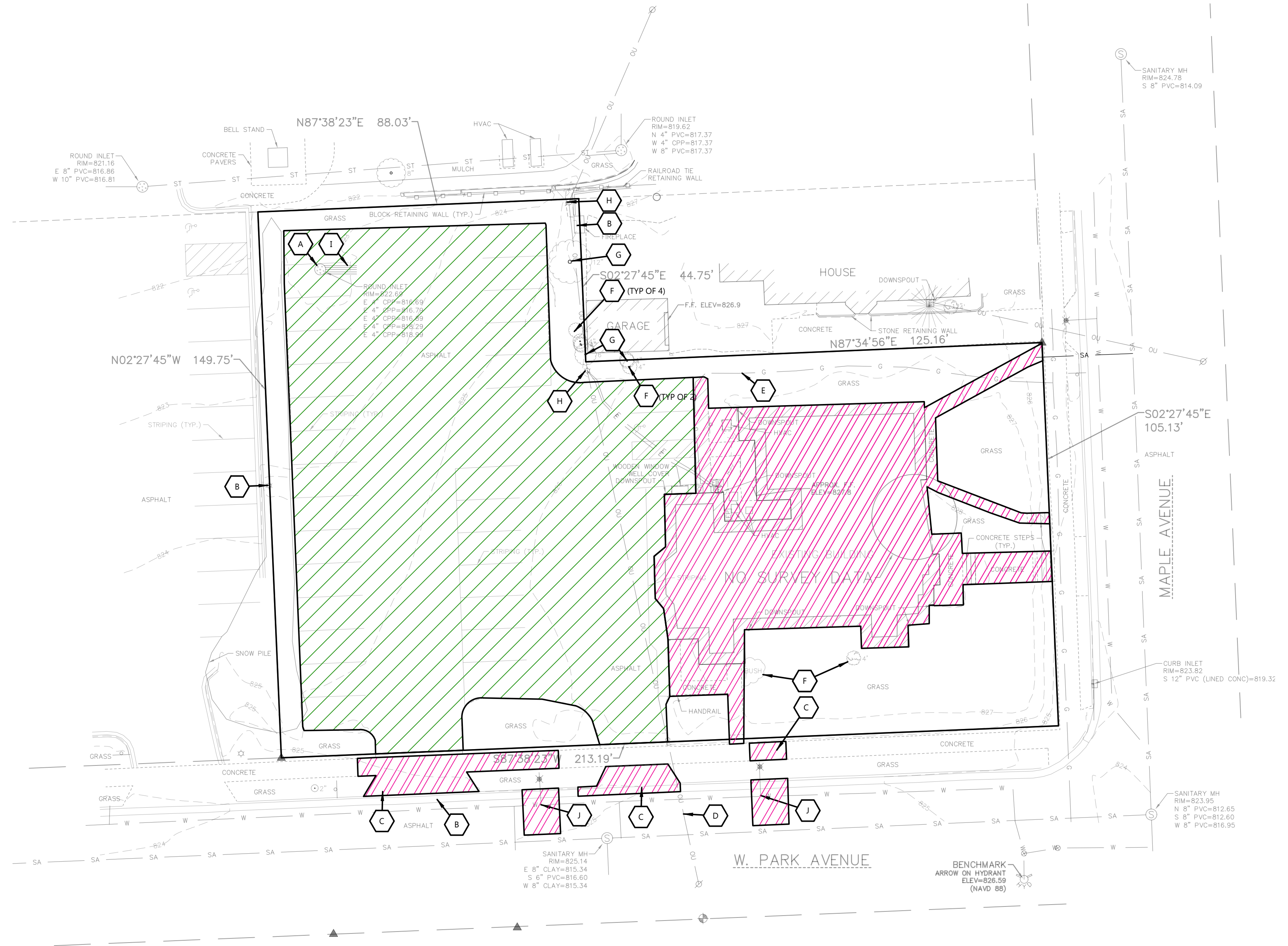
	PULVERIZE ASPHALT & PROTECT BASE
	REMOVE BUILDING, ASSOCIATED SITE IMPROVEMENTS, AND DISCONNECT ASSOCIATE UTILITIES. CONTRACTOR TO OBTAIN PERMITS AND APPROVALS AS NECESSARY.

**KEYNOTES**

	REMOVE
	PROTECT
	SAWCUT AND REMOVE PAVEMENT & CURB TO NEAREST JOINT.
	RELOCATE OVERHEAD ELECTRICAL LINE. CONTRACTOR TO COORDINATE W/LOCAL UTILITY
	CONTRACTOR TO COORDINATE REMOVAL / UPSIZING OF GAS LINE W/ LOCAL UTILITY AS NECESSARY PRIOR TO CONSTRUCTION.
	REMOVE TREE
	PROTECT TREE
	PROTECT LIGHT POLE
	PROTECT STORM PIPING. CONTRACTOR TO INVESTIGATE STORM ROUTING DOWNSTREAM. REROUTE AS NECESSARY ON SITE TO ENSURE DISCHARGE IS NOT AFFECTED BY CONSTRUCTION.
	ABANDON WATER LATERAL AT MAIN PER WAUKESHA WATER UTILITY REQUIREMENTS BY TURNING OFF THE CORP AND CAPPING THE CORP.

**GENERAL NOTES:**

- REVIEW ALL CITY SIDEWALK ADJOINING THE PROPERTY LIMITS WITH A CITY ENGINEERING REPRESENTATIVE. IF THE SIDEWALK MEETS REPLACEMENT CRITERIA DUE TO CRACKING, MISSING PIECES, OR DISPLACEMENT, THEN THE SIDEWALK WILL NEED TO BE REMOVED AND REPLACED




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**SHEET DATES**

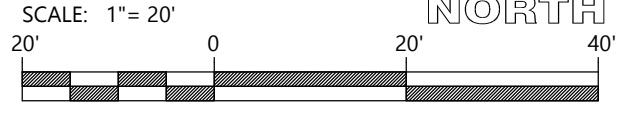
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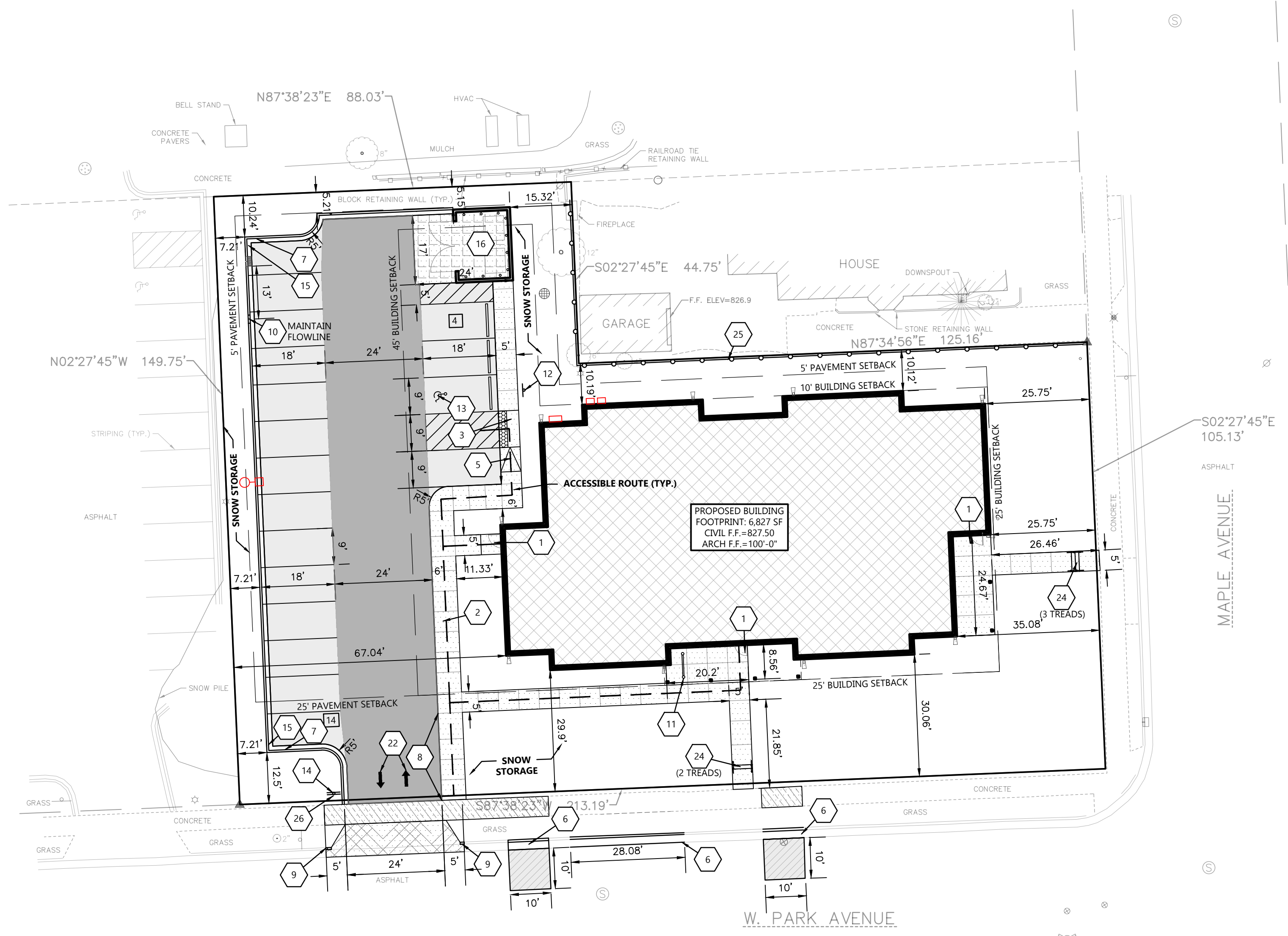
**JOB NUMBER**  
250421000

**SHEET NUMBER**  
**C1.0**

SCALE: 1" = 20'



**CIVIL EXISTING SITE AND DEMOLITION PLAN**



**LEGEND:**

HATCH	PAVEMENT SECTION	HATCH	PAVEMENT SECTION
[Hatch Pattern]	STANDARD ASPHALT	[Hatch Pattern]	DUMPSTER PAD / APRON CONCRETE
[Hatch Pattern]	HEAVY DUTY ASPHALT	[Hatch Pattern]	HEAVY DUTY CONCRETE
[Hatch Pattern]	PUBLIC ROADWAY ASPHALT	[Hatch Pattern]	PUBLIC SIDEWALK CONCRETE
[Hatch Pattern]	INVERTED CURB & GUTTER	[Hatch Pattern]	SIDEWALK CONCRETE

**SITE INFORMATION:**

PROPERTY AREA: 26,335 S.F. (0.605 ACRES).  
 TAX KEY ID: WAKC1308308  
 EXISTING ZONING: RM-3 - MULTI FAMILY RESIDENTIAL  
 PROPOSED ZONING: RM-3 - MULTI FAMILY RESIDENTIAL  
 EXISTING USE: CHURCH  
 PROPOSED USE: APARTMENT BUILDING W/ 10 UNITS AND FIRST FLOOR PUBLIC SPACES  
 AREA OF SITE DISTURBANCE: ± 27,000 S.F. (0.63 AC)  
 SETBACKS:  
 BUILDING: FRONT(SOUTH/EAST) = 25'  
 SIDE(NORTH) = 10'  
 REAR(WEST) = 45'  
 PAVEMENT: FRONT(SOUTH/EAST) = 25'  
 SIDE(NORTH) = 5'  
 REAR(WEST) = 5'  
 PROPOSED BUILDING HEIGHT AVG: 32'-6" (MAX. HEIGHT ALLOWED: 40')  
 PARKING REQUIRED: 18 SPACES REQ.  
 1 BEDROOM = 2 UNITS; (2 x 3 x 1) = 2 SPACES  
 2 BEDROOM = 8 UNITS; (8 x 2) = 16 SPACES  
 PARKING PROVIDED: 18 SPACES (1 H.C. ACCESSIBLE)  
 HANDICAP STALLS REQUIRED: 1. HANDICAP STALLS PROVIDED: 1  
 BICYCLE PARKING PROVIDED: 3 STALLS FOR 10 UNITS

**EXISTING SITE DATA**

	AREA (AC)	AREA (SF)	RATIO
BUILDING FLOOR AREA	0.09	4,008	15.2%
PAVEMENT (ASP. & CONC.)	0.33	14,284	54.2%
TOTAL IMPERVIOUS	0.42	18,292	69.5%
LANDSCAPE/ OPEN SPACE	0.18	8,040	30.5%
PROJECT SITE	0.60	26,332	100.0%

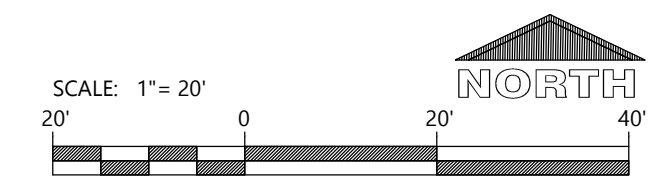
  

**PROPOSED SITE DATA**

	AREA (AC)	AREA (SF)	RATIO
BUILDING FLOOR AREA	0.16	6,827	25.9%
PAVEMENT (ASP. & CONC.)	0.20	8,755	33.2%
TOTAL IMPERVIOUS	0.36	15,582	59.2%
LANDSCAPE/ OPEN SPACE	0.25	10,750	40.8%
PROJECT SITE	0.60	26,332	100.0%

**KEYNOTES**

1	CONCRETE STOOP (SEE STRUCTURAL PLANS FOR DETAILS)
2	RAISED WALK (SEE DETAIL)
3	FLUSH WALK (SEE DETAIL)
4	TAPER ASPHALT 0" TO 6" IN 18" (SEE DETAIL)
5	ADA CURB RAMP (SEE DETAIL)
6	30-INCH TYPE A HMA (SEE DETAIL)
7	18" CURB & GUTTER (SEE DETAIL)
8	TAPER WALK 0" TO 6" IN 21"
9	CURB TAPER (SEE DETAIL)
10	CURB CUT (SEE DETAIL)
11	BIKE RACK (SEE DETAIL)
12	HANDICAP SIGN PER STATE CODE (SEE DETAIL)
13	HANDICAP STALL & STRIPING PER STATE CODES
14	STOP SIGN (SEE DETAIL)
15	18" MOUNTABLE CURB & GUTTER (SEE DETAIL)
16	DUMPSTER ENCLOSURE (SEE ARCH PLANS FOR DETAILS)
22	TRAFFIC FLOW ARROWS (TYP), YELLOW TO MATCH PARKING STALL STRIPING
24	EXTERIOR STAIRS W/ RAILING (SEE DETAIL)
25	165" OF 6" TALL BOARD-ON-BOARD WOOD FENCE (SEE DETAIL)
26	TENANT PARKING ONLY SIGN



CIVIL SITE PLAN

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JOB NUMBER

250421000

SHEET NUMBER

**C1.2**

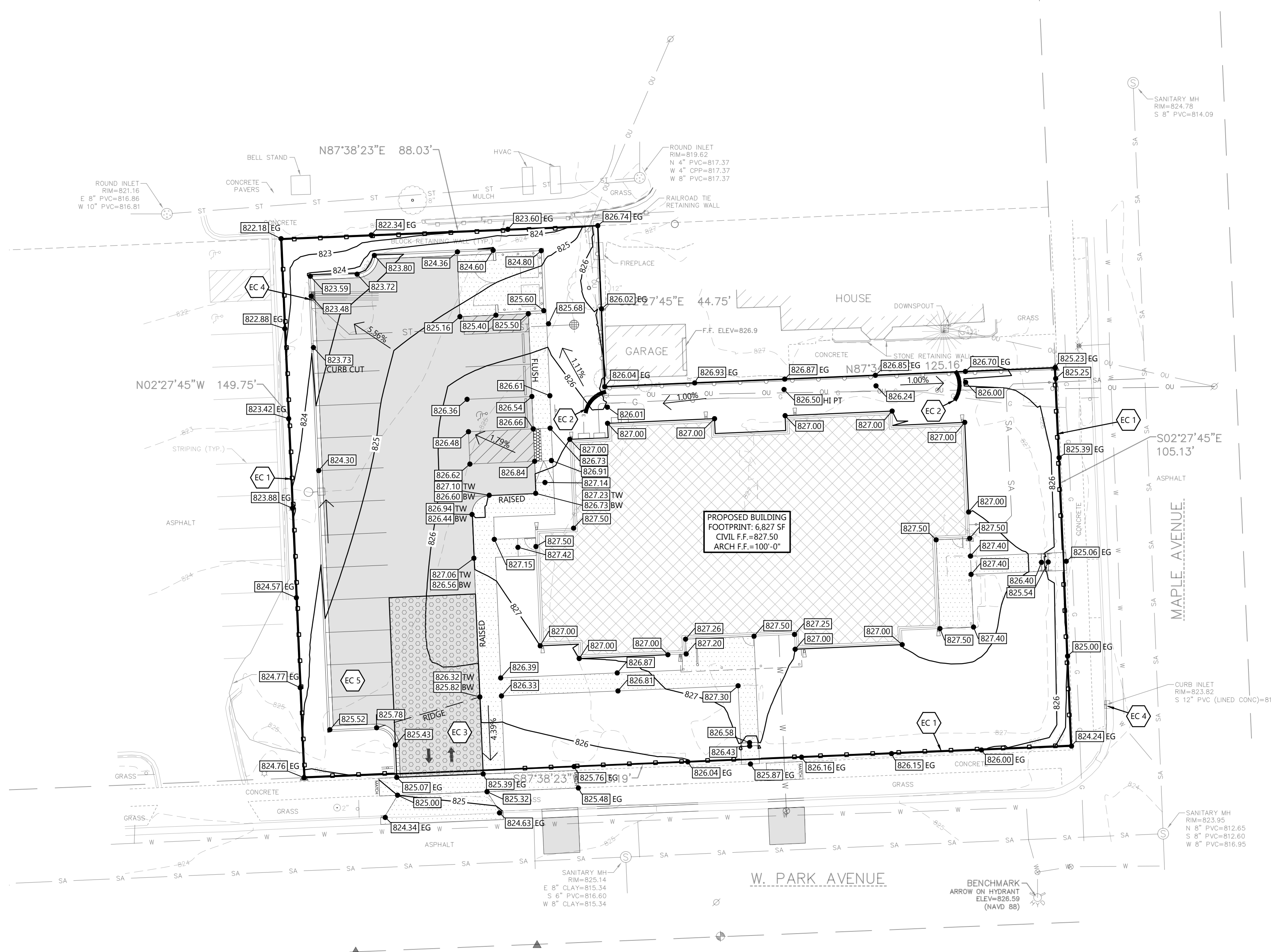
GENERAL NOTES:

- HANDICAP STALL AND ACCESS AISLES SHALL NOT EXCEED A SLOPE OF 1.50% IN ANY DIRECTION. HANDICAP STALL & ACCESS AISLES SHALL CONFORM TO ADA REQUIREMENTS (CURRENT EDITION)
- ALL SIDEWALKS SHALL NOT EXCEED A MAXIMUM CROSS SLOPE OF 1.50% AND RUNNING SLOPE OF 4.50% UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR SHALL PROVIDE STABILIZED CONSTRUCTION ENTRANCE AT CONSTRUCTION ENTRANCE FOR PROPOSED IMPROVEMENTS AS REQUIRED PER CODE.
- CONTRACTOR SHALL PROVIDE CONCRETE WASHOUT AS REQUIRED PER CODE. FINAL LOCATION TBD BY CONTRACTOR.
- CONTRACTOR SHALL PROVIDE TEMPORARY INLET PROTECTION FOR ALL CURB INLETS & CATCH BASINS ONSITE & OFFSITE IMMEDIATELY DOWNSTREAM OF THE PROJECT SITE PER LOCAL CODE.

MAP SYMBOL	SOIL TYPE	HYDROLOGIC RATING
7290B	WARSAW LOAM	B

KEYNOTES

EC 1	SILT FENCE
EC 2	DITCH CHECK
EC 3	STABILIZED CONSTRUCTION ENTRANCE
EC 4	INLET PROTECTION
EC 5	CONCRETE WASHOUT



**GENERAL NOTES:**

- CONTRACTOR TO CALL WAUKESHA WATER UTILITY CONTACT MAT KADRICH AT 262-408-3492 AT LEAST 72-HOURS PRIOR TO ANY WORK BEING DONE TO COORDINATE SHUTOFFS OF THE WATER MAIN AS NECESSARY AND HAVE AN INSPECTOR ON SITE.
- ALL SANITARY SEWER TO BE INSTALLED IN ACCORDANCE WITH THE CITY OF WAUKESHA STANDARDS
- ALL APPLICATIONS AND FEES FOR SANITARY SEWER MUST BE COMPLETED AND PAID PRIOR TO CONNECTION TO THE SEWER SYSTEM
- ANY UTILITY WORK IN THE RIGHT-OF-WAY AND ALL SANITARY SEWER CONNECTIONS TO BE INSPECTED BY CITY. NOTIFY CITY 72 HOURS IN ADVANCE OF CONNECTING TO SEWER.
- WHEN STARTING AN INSTALLATION, THE FARTHEST DOWNSTREAM LOCATION OF THE NEW SANITARY SEWER SYSTEM SHALL HAVE A PLUG INSTALLED AND MAINTAINED BY THE UTILITY CONTRACTOR. THAT PLUG SHALL NOT BE REMOVED UNTIL THE SYSTEM HAS BEEN ACCEPTED BY THE CITY ENGINEER AND DEEMED OPERATIONAL BY THE CITY.
- CITY REQUIRES PAVEMENT PATCH TO EXTEND TO NEAREST LONGITUDINAL JOINT AND LENGTH TO EQUAL WIDTH. FINAL EXTENTS TO BE MARKED BY CITY STAFF.

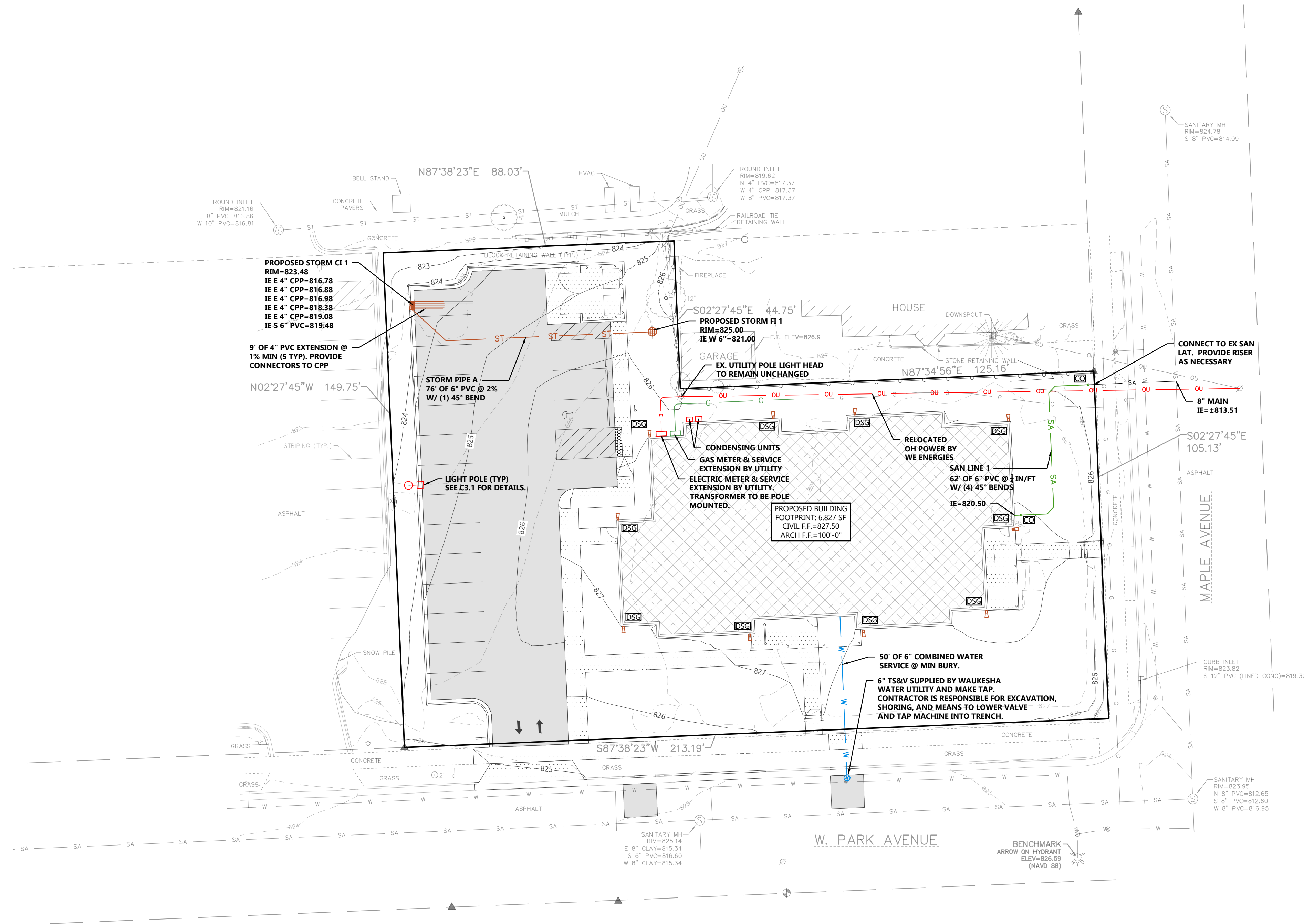


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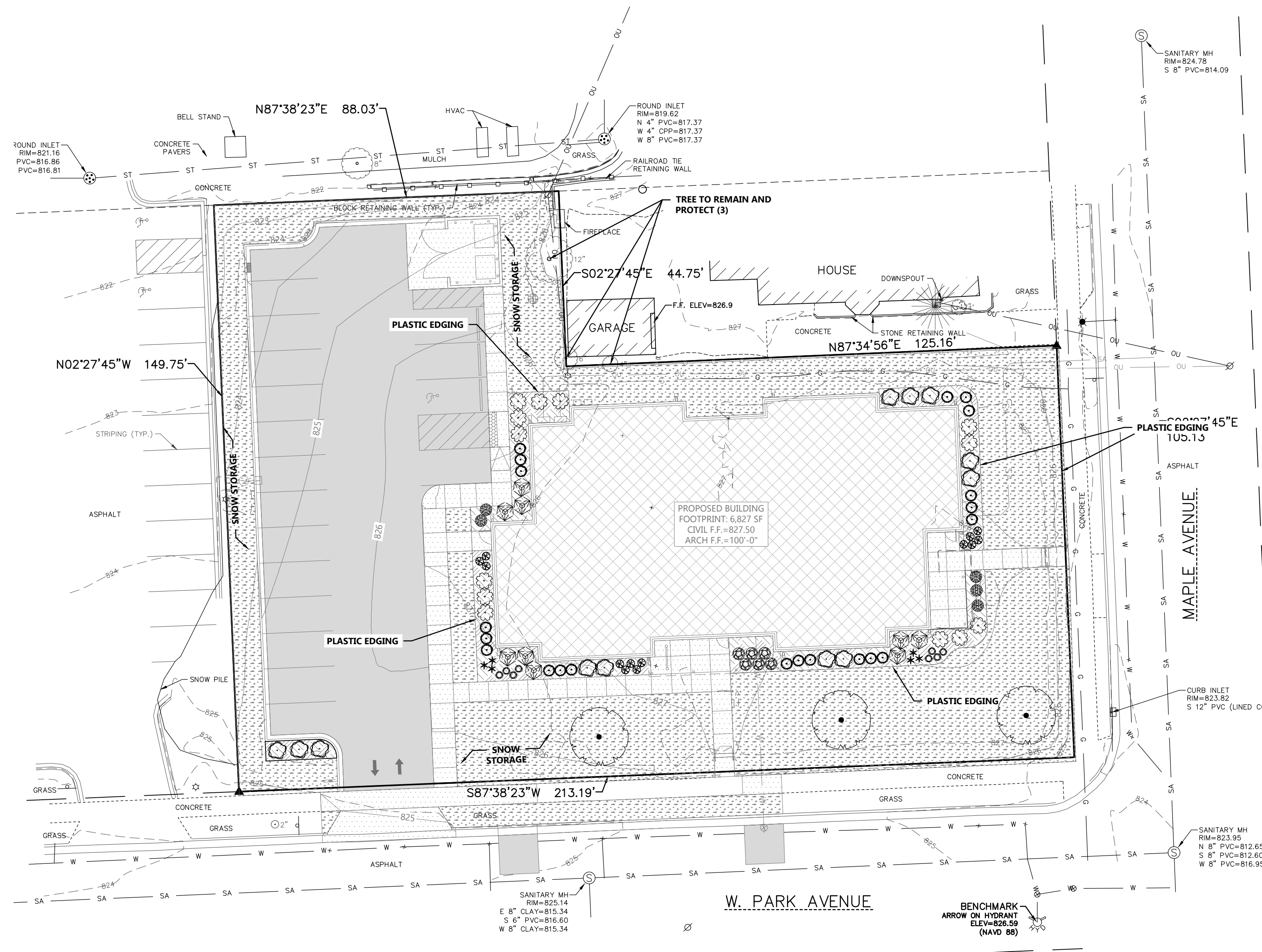
**C1.3**



CIVIL UTILITY PLAN

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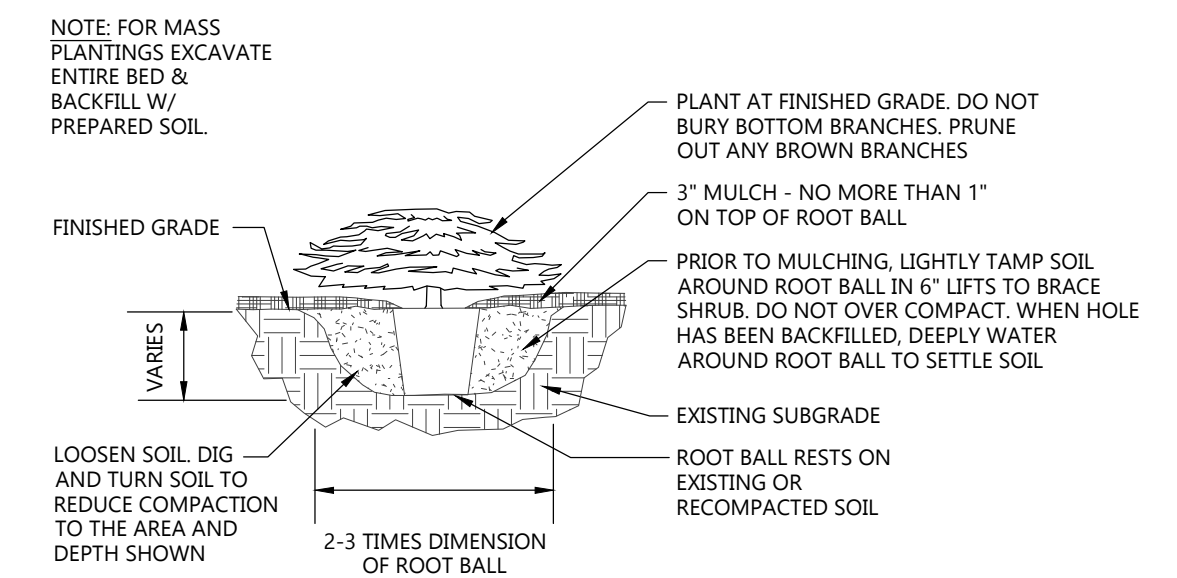
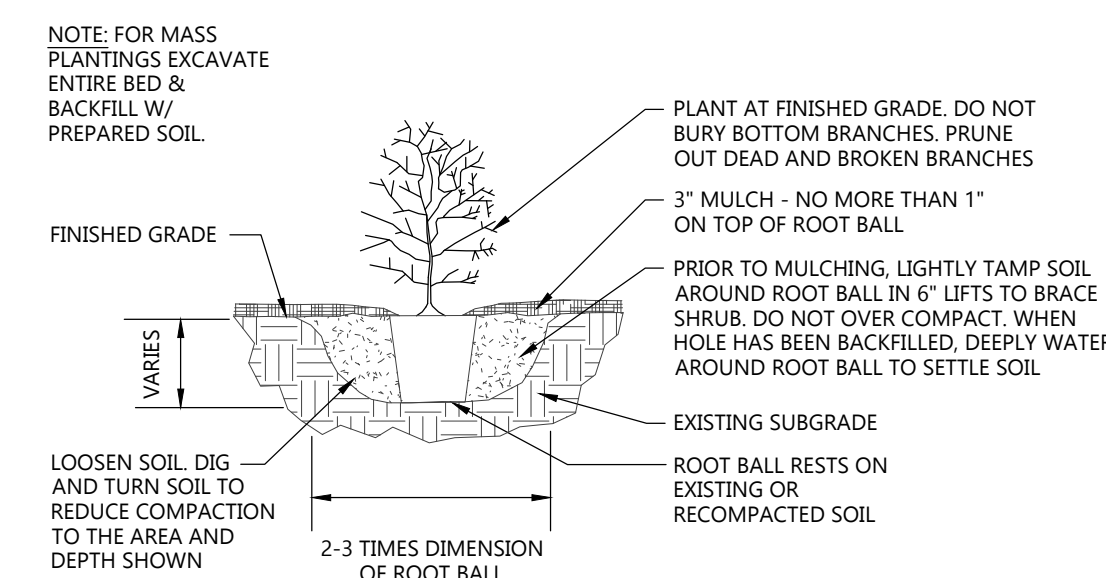
PLANT SCHEDULE					
SYMBOL	COMMON NAME	BOTANICAL NAME	QUANTITY	PLANTED SIZE	ROOT
<b>ORNAMENTAL TREES</b>					
⊙	Flowering Crabapple (Spring Snow)	Malus x hybrid (Spring Snow)	3	1 1/4" CAL.	B&B
<b>DECIDUOUS SHRUBS</b>					
⊙	Iroquois Beauty Black Chokeberry	Aronia melanocarpa 'Morton'	9	18" HT.	CONT.
⊙	Pee Wee Oakleaf Hydrangea	Hydrangea quercifolia 'Pee Wee'	6	18" HT.	CONT.
⊙	Dream Cloud Lilac	Syringa patula 'KLMone'	12	18" HT.	CONT.
⊙	Magical Fantasy Weigela	Weigela Florida 'Kolsunn'	13	18" HT.	CONT.
<b>EVERGREEN SHRUBS</b>					
⊙	Slowmound Mugo Pine	Pinus mugo 'Slowmound'	21	18" HT.	CONT.
<b>PERENNIALS</b>					
⊙	Decadence Blueberry Sundae False Indigo	Baptisia x 'Blueberry Sundae'	5	1 GAL.	CONT.
⊙	Montrose White Calamint	Calamintha nepeta 'Montrose White'	13	1 GAL.	CONT.
⊙	American Gold Rush Rudbeckia	Rudbeckia x 'American Gold Rush'	8	1 GAL.	CONT.
⊙	Tara Prairie Dropseed Grass	Sporobolus heterolepis 'Tara'	6	1 GAL.	CONT.

**GENERAL NOTES:**

- SEE SHEET C0.2 FOR LANDSCAPE SPECIFICATIONS.
- ALL DISTURBED BARE SOIL OUTSIDE OF MULCH AREAS TO BE SEEDED.

**HATCH KEY:**

HATCH	LANDSCAPE MATERIAL
	ROCK MULCH
	SEEDED LAWN



SHEET DATES

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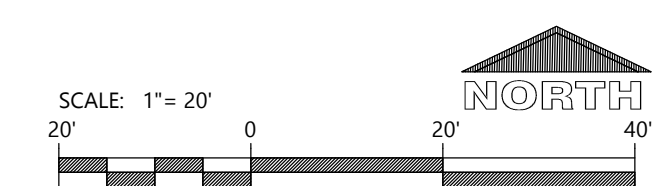
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250421000

SHEET NUMBER

**C1.4**



LANDSCAPE NOTE:  
SEE SHEET C.1.4 FOR PROPOSED LANDSCAPE  
SCHEDULE

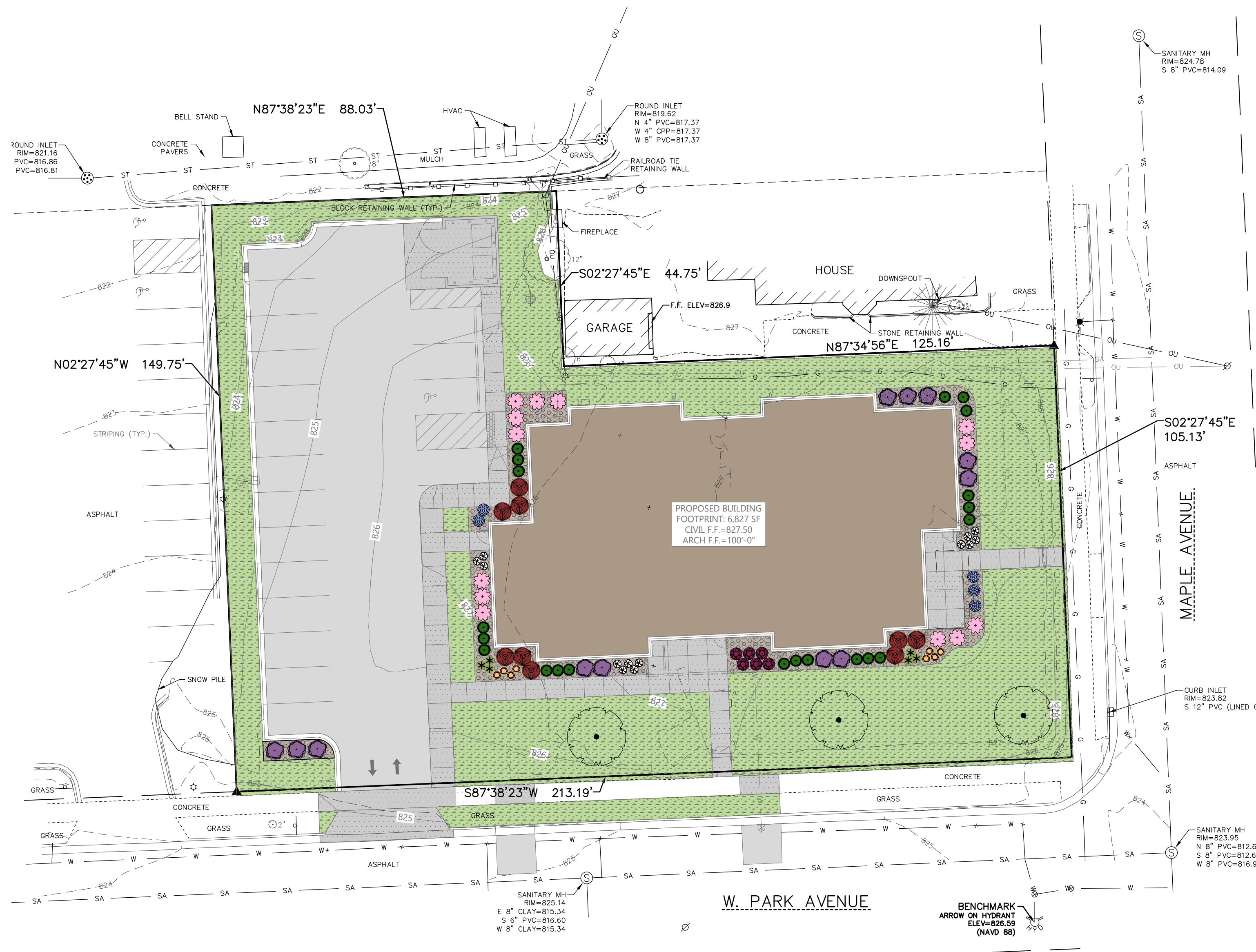


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LANDSCAPE/PAVEMENT HATCH KEY

	BUILDING
	SIDEWALK / CONCRETE
	ASPHALT
	ROCK MULCH
	LAWN

PLANTING KEY

SYMBOL	COMMON NAME
<u>DECIDUOUS SHRUBS</u>	
	Iroquois Beauty Black Chokeberry
	Pee Wee Oakleaf Hydrangea
	Dream Cloud Lilac
	Magical Fantasy Weigela
<u>EVERGREEN SHRUBS</u>	
	Slowmound Mugo Pine
<u>PERENNIALS</u>	
	Decadence Blueberry Sundae False Indigo
	Montrose White Calamint
	American Gold Rush Rudbeckia
	Tara Prairie Dropseed Grass



SHEET DATES

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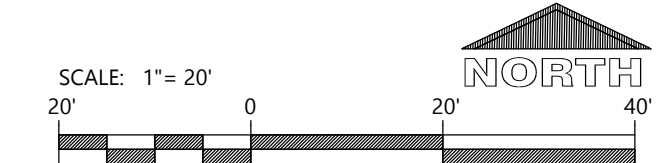
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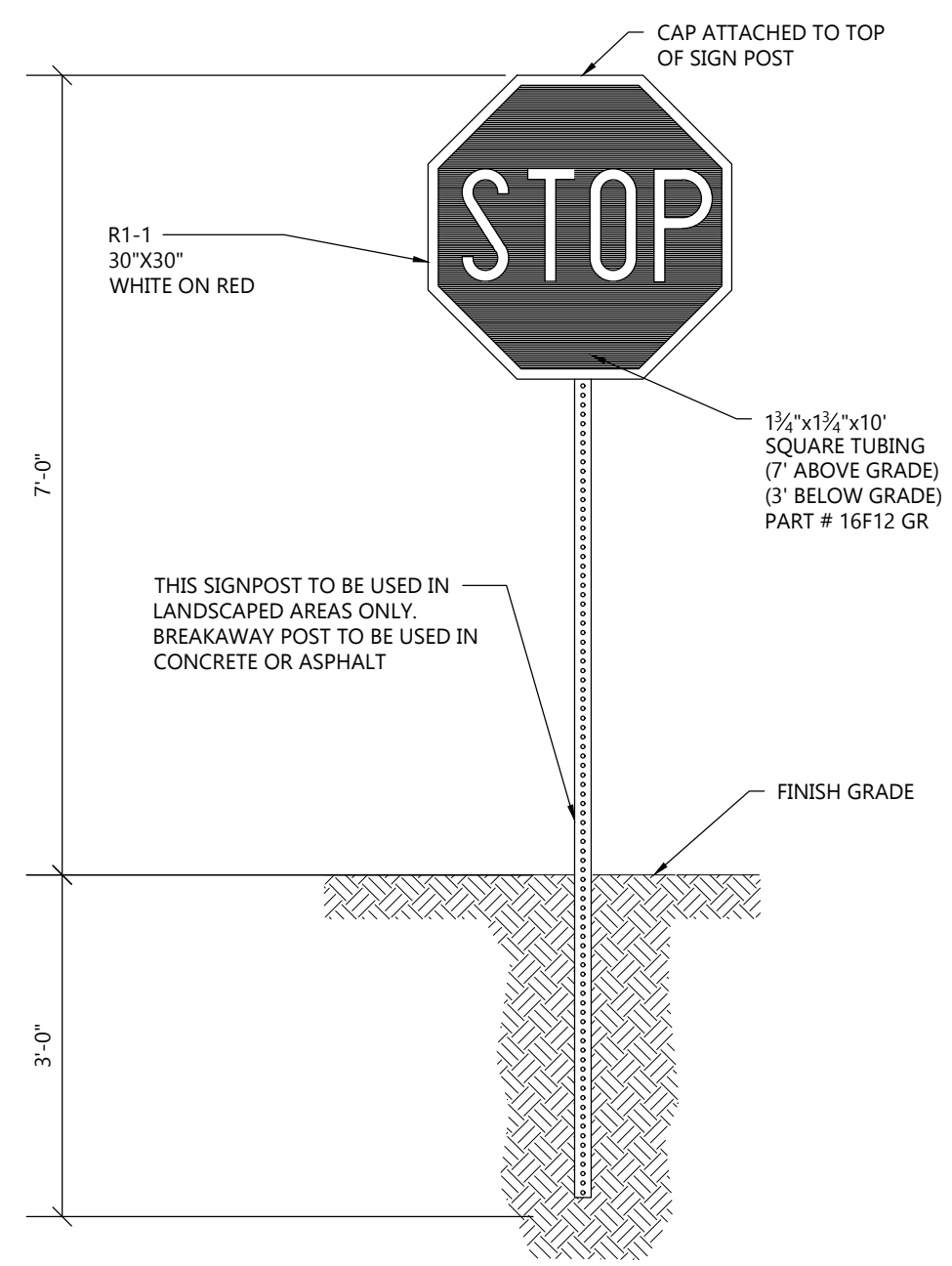
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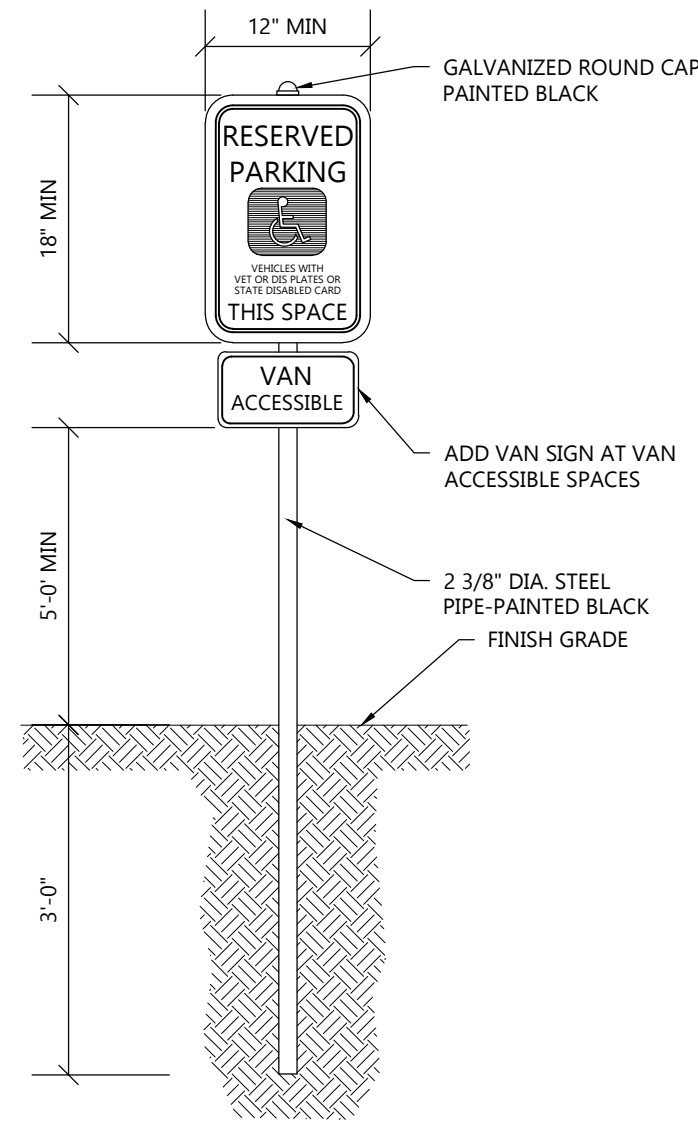


CIVIL LANDSCAPE COLOR PLAN



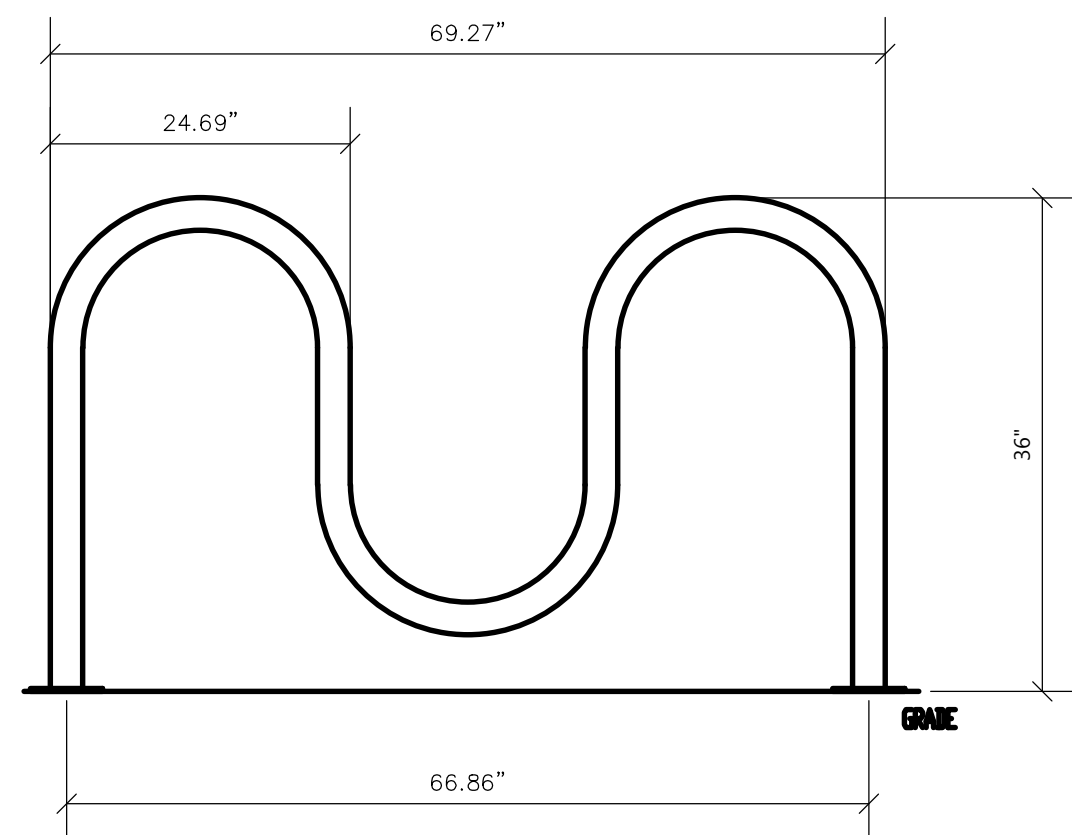
**STOP SIGN WITHOUT CONCRETE BASE DETAIL**

NOT TO SCALE



**HANDICAP SIGNAGE WITHOUT CONCRETE BASE DETAIL**

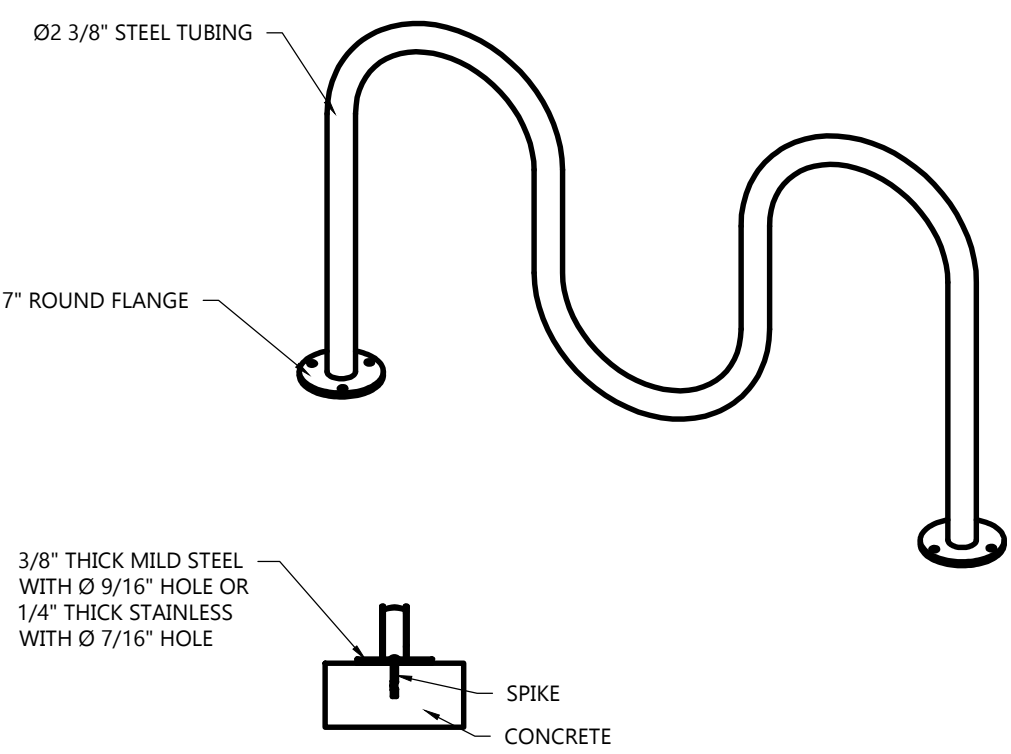
NOT TO SCALE



- NOTES:
- INSTALL BIKE RACKS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
  - OWNER SHALL SELECT COLOR & FINISH
  - SEE SITE PLAN FOR APPROX. LOCATION. COORDINATE W/ OWNER PRIOR TO CONSTRUCTION.
  - MANUFACTURED BY MADRAX. PRODUCT: CS200-5-IG(SF). DESCRIPTION: CAPITAL SQUARE BIKE RAKE 5 BIKE

**5 BIKE RACK DETAIL-WAVE TYPE**

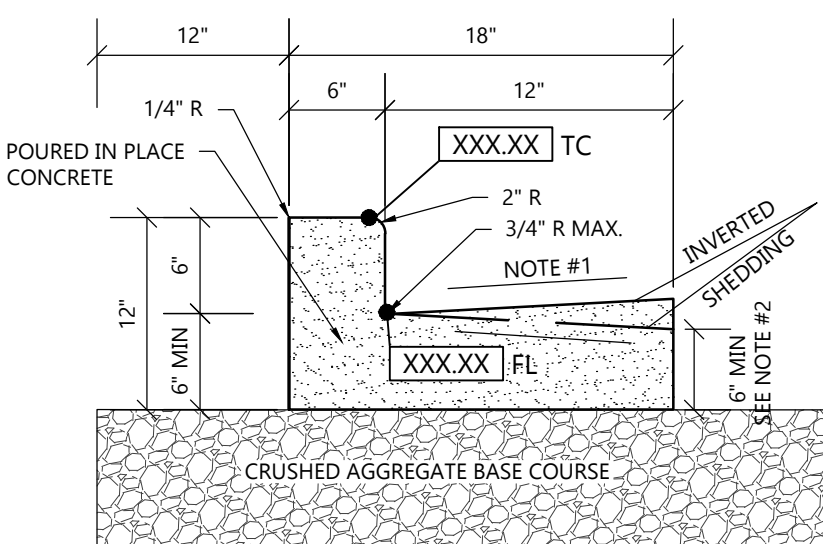
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**18" CONCRETE CURB & GUTTER DETAIL**

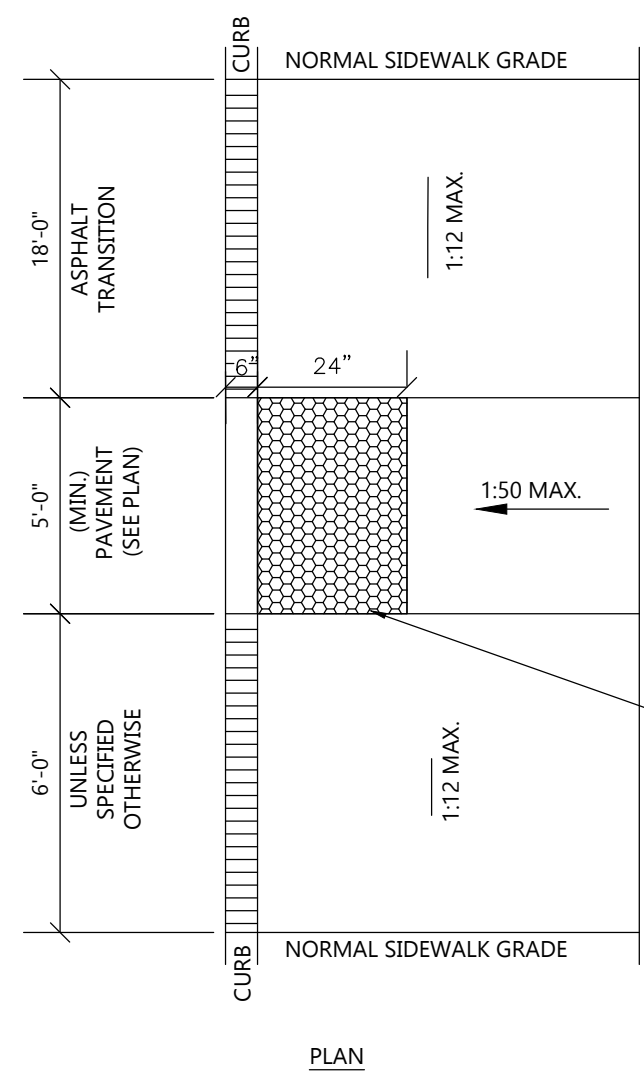
NOT TO SCALE

- NOTE:
- USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.
  - THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MIN. GUTTER THICKNESS IS MAINTAINED.
  - SEE SITE PLAN & GRADING PLAN FOR INVERTED & SHEDDING CURB LOCATIONS



**ADA SIDEWALK RAMP DETAIL**

NOT TO SCALE

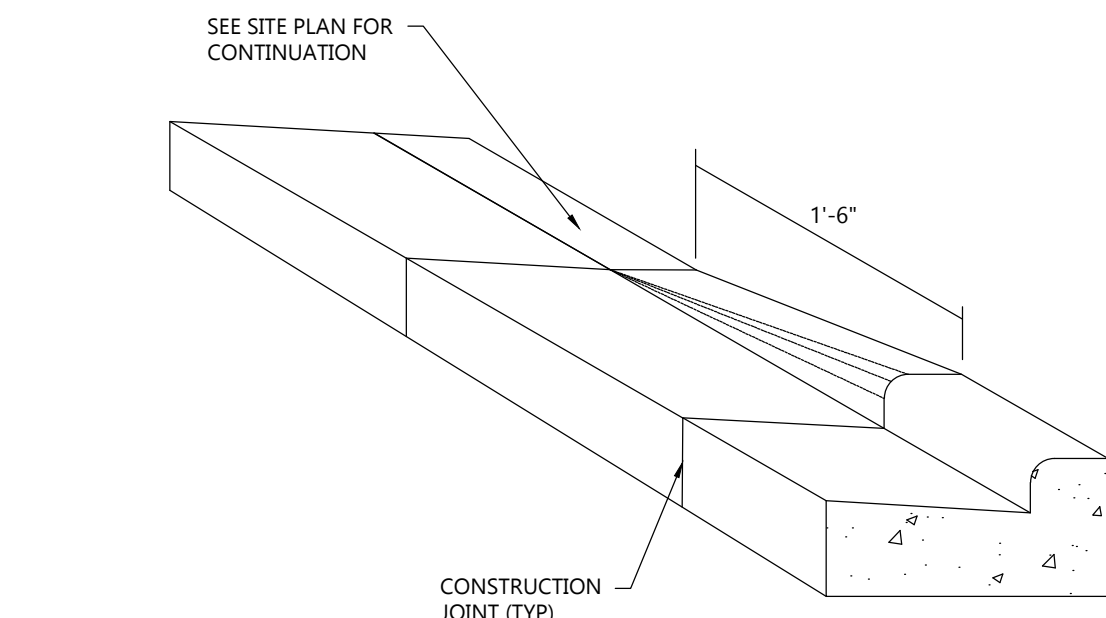


**FLUSH WALK DETAIL**

NOT TO SCALE

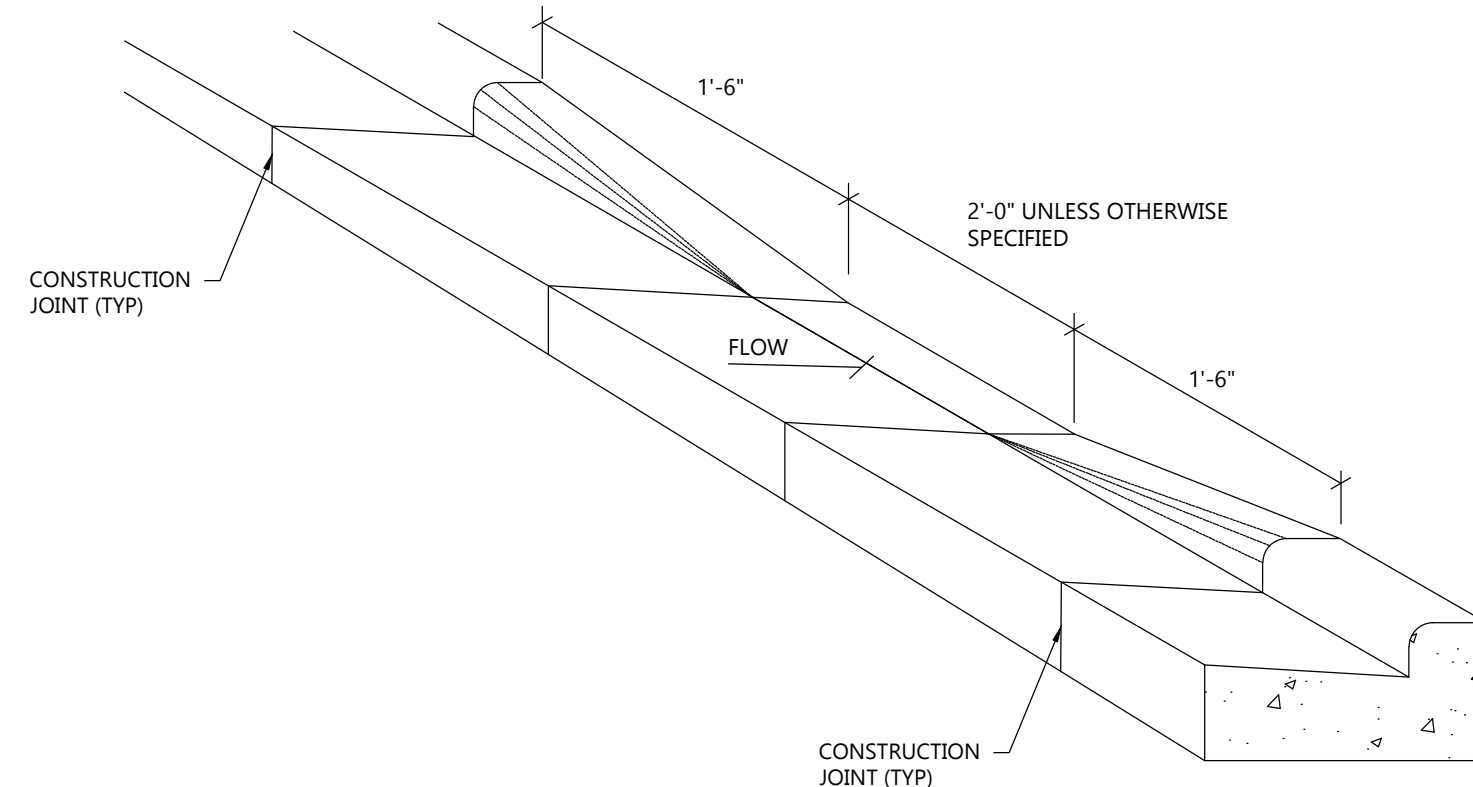
NOTE: ADA CURB RAMP SHALL CONFORM TO THE CURRENT EDITION OF ADA STANDARDS FOR ACCESSIBLE DESIGN FOR ALL REQUIREMENTS.

DETECTABLE WARNING SURFACE. SURFACE TO BE TRUNCATED DOMES WITH A BASE DIAMETER OF 0.9" MIN. TO 1.4" MAX. AND A TOP DIAMETER OF 0.50% MIN. TO 0.65% MAX. OF THE BASE DIAMETER. HEIGHT OF DOMES SHALL HAVE A HEIGHT OF 0.2". TRUNCATED DOMES SHALL HAVE A CENTER-TO-CENTER SPACING OF 1.6" MIN. AND 2.4" MAX. AND A BASE-TO-BASE SPACING OF 0.65" MIN. MEASURED BETWEEN THE MOST ADJACENT DOMES ON THE GRID. DOMES SHALL BE ALIGNED IN A SQUARE GRID PATTERN.



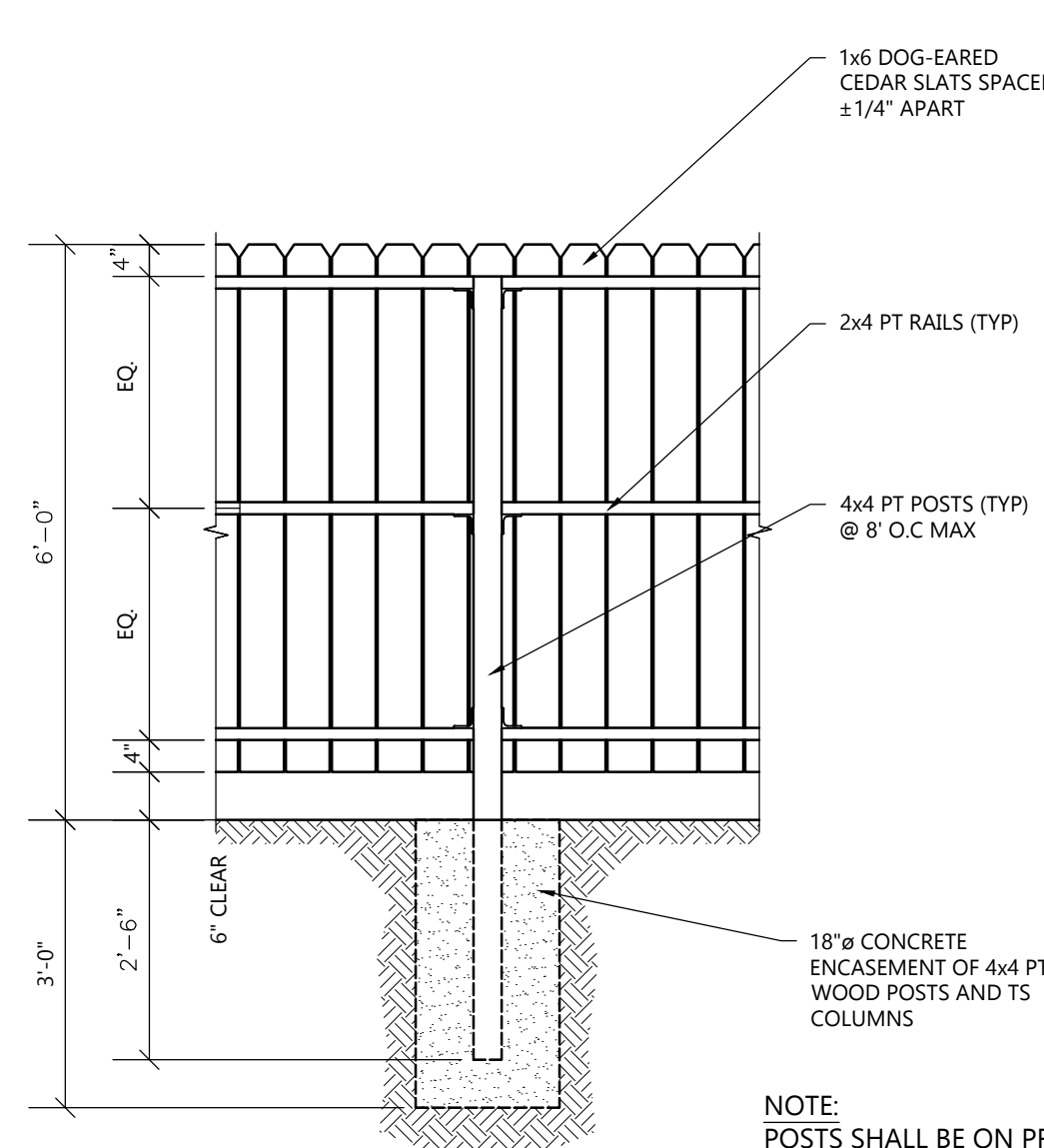
**CURB TAPER DETAIL**

NOT TO SCALE



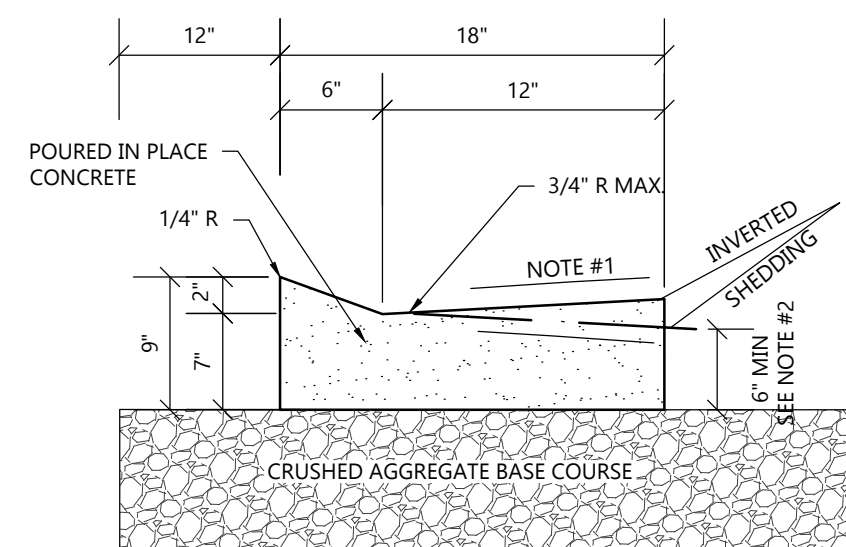
**CURB CUT DETAIL**

NOT TO SCALE



**FENCE DETAIL-CEDAR SLAT**

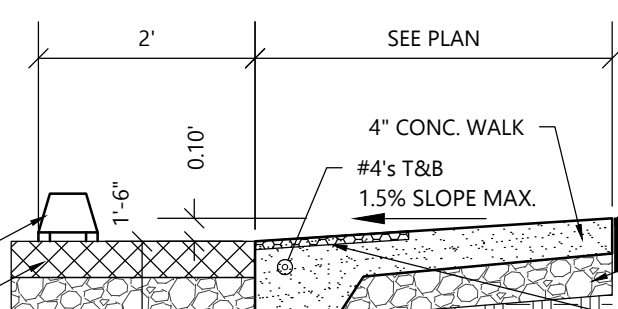
NOT TO SCALE



**18" MOUNTABLE CURB & GUTTER DETAIL**

NOT TO SCALE

- NOTE:
- USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.
  - THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MIN. GUTTER THICKNESS IS MAINTAINED.
  - SEE SITE PLAN & GRADING PLAN FOR INVERTED & SHEDDING CURB LOCATIONS

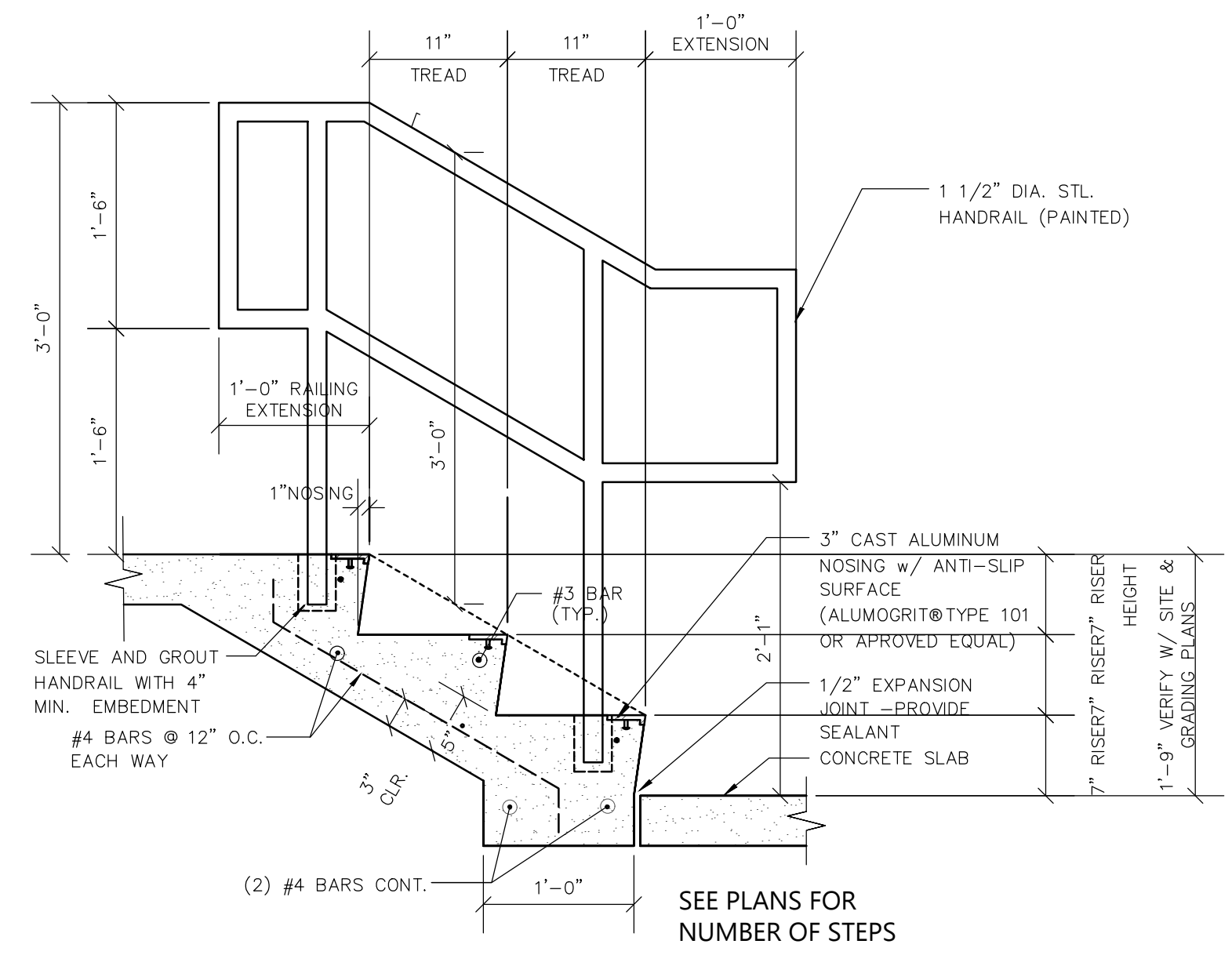


**FLUSH WALK DETAIL**

NOT TO SCALE

NOTE: SLOPE SLAB AWAY FROM BUILDING AT 1.5% MAX.

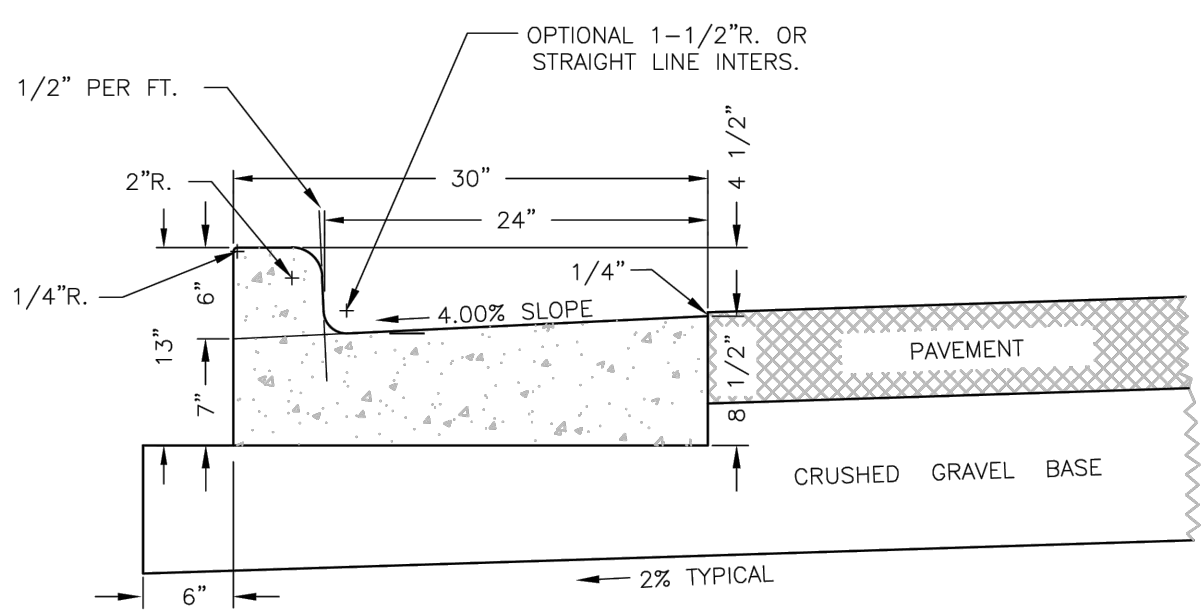
DETECTABLE WARNING SURFACE. SURFACE TO BE TRUNCATED DOMES WITH A BASE DIAMETER OF 0.9" MIN. TO 1.4" MAX. AND A TOP DIAMETER OF 0.50% MIN. TO 0.65% MAX. OF THE BASE DIAMETER. HEIGHT OF DOMES SHALL HAVE A HEIGHT OF 0.2". TRUNCATED DOMES SHALL HAVE A CENTER-TO-CENTER SPACING OF 1.6" MIN. AND 2.4" MAX. AND A BASE-TO-BASE SPACING OF 0.65" MIN. MEASURED BETWEEN THE MOST ADJACENT DOMES ON THE GRID. DOMES SHALL BE ALIGNED IN A SQUARE GRID PATTERN.



**7" RISE EXTERIOR STAIRS WITH RAILING DETAIL (TYPICAL)**

NO SCALE

NOTE: AT ALL HANDICAP RAMP LOCATIONS THE CROSS-SLOPE OF THE FLANGE CANNOT EXCEED 1/4" FT. THIS MUST BE MAINTAINED THE WIDTH OF THE RAMP. TRANSITION A MINIMUM 5 FT. ALONG THE FACE OF THE FLANGE ON EITHER SIDE OF THE RAMP TO THE TYPICAL CROSS-SLOPE.



CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS  
 STANDARD CONSTRUCTION DETAILS  
 30-INCH TYPE A HMA  
 APPROVED: ALEX DAMEN DATE: 12/23/2018 DRAWN BY: OSB DATE: 12/23/2018 PLOT SCALE: 8" = 1'-0"  
 PROJECT NO: 07-0331

**PROJECT INFORMATION**

PROPOSED NEW HOUSING FOR:  
**FAMILY PROMISE**  
 600 MAPLE AVENUE • WAUKESHA, WI 53186



**SHEET DATES**

ISSUED FOR APPROVAL

IFA MAY 22, 2026

JOB NUMBER	250421000
SHEET NUMBER	C2.0

JOB NUMBER  
250421000

SHEET NUMBER

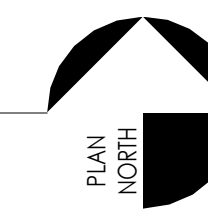
**C2.0**







1 FIRST FLOOR PLAN  
3/16" = 1'-0"



DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF VJS CONSTRUCTION SERVICES, INC. THE ARCHITECT/ENGINEER ASSUMES NO RESPONSIBILITY OR LIABILITY FOR THE USE OF THESE PLANS FOR ANY PROJECT OTHER THAN SPECIFICALLY AUTHORIZED BY THEM AND SIGNED AND SEALED FOR SUCH SPECIFIC LOCATION IN THE STATE, PROVINCE, OR TERRITORY SHOWN ON THE SEAL.

ISSUANCE & REVISIONS

1	6/16/2025	CONCEPT DESIGN
2	8/18/2025	CONCEPT BUDGET
3	1/28/2026	PRELIM SPAR
4	6/24/2026	PLAN COMMISSION

PROJECT NUMBER	8240042
PROJECT ISSUED	5/5/2025
DRAWN BY	BDG, GM
CHECKED BY	BDG

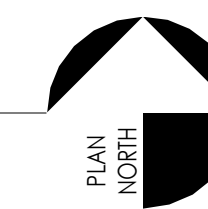
FIRST FLOOR PLAN

A1.01

**NOT FOR CONSTRUCTION**



1 SECOND FLOOR PLAN  
3/16" = 1'-0"



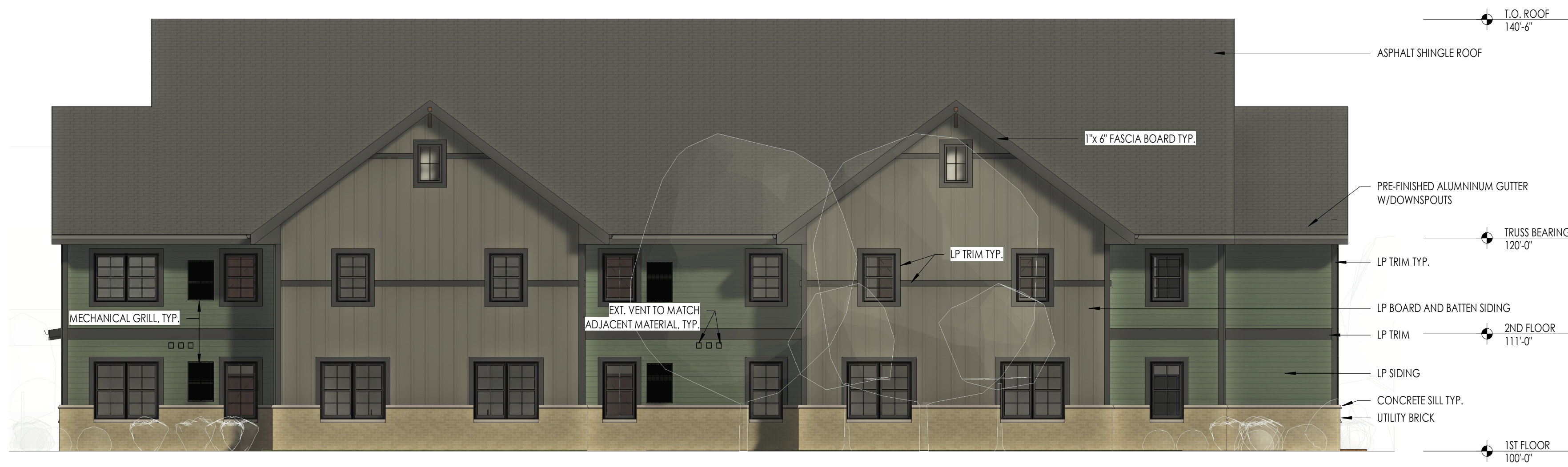
DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF VJS CONSTRUCTION SERVICES, INC. ARCHITECT/ENGINEER ASSUMES NO RESPONSIBILITY OR LIABILITY FOR THE USE OF THESE PLANS FOR ANY PROJECT OTHER THAN SPECIFICALLY AUTHORIZED BY THEM AND ISSUED AND SEALED FOR SUCH SPECIFIC LOCATION IN THE STATE, PROVINCE, OR TERRITORY SHOWN ON THE SEAL.

ISSUANCE & REVISIONS

1	6/16/2025	CONCEPT DESIGN
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3	1/28/2026	PRELIM SPAR
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CHECKED BY	BDG

NOT FOR CONSTRUCTION



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



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



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



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

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ISSUANCE & REVISIONS

2	8/18/2025	CONCEPT BUDGET
3	1/28/2026	PRELIM SPAR
4	6/24/2026	PLAN COMMISSION

PROJECT NUMBER	8240042
PROJECT ISSUED	5/5/2025
DRAWN BY	GM
CHECKED BY	BDG

EXTERIOR ELEVATIONS

NOT FOR CONSTRUCTION