



## CONTACT INFORMATION

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## Garden Terrace – Multifamily Apartments & Community Center

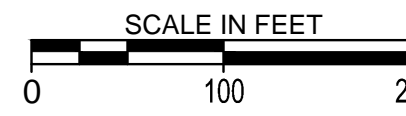
LA CROSSE, WISCONSIN





CITY OF  
LA CROSSE, WI

**LOCATION MAP**



**PROJECT ADDRESS / LOCATION:**  
733 & 833 KANE STREET  
LA CROSSE, WI 54603

**SECTION/TOWNSHIP/RANGE**  
SEC 29 / TWP 16 / R 7

**LA CROSSE, WISCONSIN**

**SITE SUMMARY**

<b>ZONING:</b> PLANNED DEVELOPMENT			
<b>SITE/LOT AREA:</b> 52,048 SQ. FT / 1.19 AC.			
<b>PARKING REQUIREMENTS (1 STALL PER UNIT)</b>			
TYPE	UNIT / AREA	TOTAL STALLS	STALLS PROVIDED
PARKING STALLS		54	50
HANDICAP STALLS		4	4
<b>TOTAL:</b>			<b>54</b>
<b>SETBACKS (RESIDENCE DISTRICT)</b>			
	PARKING	BUILDING	
FRONT YARD	-	25 FT	
SIDE YARD	-	6 FT	
REAR YARD	-	30 FT	
CORNER	-	6 FT	
<b>SETBACKS (PUBLIC AND SEMI-PUBLIC)</b>			
BUILDING - 10 FEET FROM ALL PUBLIC RIGHTS OF WAY PLUS ONE ADDITIONAL FOOT FOR EACH FIVE FEET OF BUILDING HEIGHT EXCEEDING 35 FEET			

**PROJECT GENERAL NOTES**

- ALL WORK SHALL CONFORM TO THE CONTRACT DOCUMENTS, WHICH INCLUDE, BUT ARE NOT LIMITED TO, THE OWNER - CONTRACTOR AGREEMENT, THE PROJECT MANUAL (WHICH INCLUDES GENERAL SUPPLEMENTARY CONDITIONS AND SPECIFICATIONS), DRAWINGS OF ALL DISCIPLINES AND ALL ADDENDA, MODIFICATIONS AND CLARIFICATIONS ISSUED BY THE ARCHITECT/ENGINEER.
- CONTRACT DOCUMENTS SHALL BE ISSUED TO ALL SUBCONTRACTORS BY THE GENERAL CONTRACTOR IN COMPLETE SETS IN ORDER TO ACHIEVE THE FULL EXTENT AND COMPLETE COORDINATION OF ALL WORK.
- WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- DETAILS SHOWN ARE INTENDED TO BE INDICATIVE OF THE PROFILES AND TYPE OF DETAILING REQUIRED THROUGHOUT THE WORK. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO DETAILS SHOWN. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
- ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, CLEANED AND CONDITIONED ACCORDING TO MANUFACTURERS' INSTRUCTIONS. IN CASE OF DISCREPANCIES BETWEEN MANUFACTURERS' INSTRUCTIONS AND THE CONTRACT DOCUMENTS, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
- ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO AVOID GALVANIC CORROSION.
- THE LOCATION AND TYPE OF ALL INPLACE UTILITIES SHOWN ON THE PLANS ARE FOR GENERAL INFORMATION ONLY AND ARE ACCURATE AND COMPLETE TO THE BEST OF THE KNOWLEDGE OF I & S GROUP, INC. (IGS). NO WARRANTY OR GUARANTEE IS IMPLIED. THE CONTRACTOR SHALL VERIFY THE SIZES, LOCATIONS AND ELEVATIONS OF ALL INPLACE UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES OR VARIATIONS FROM PLAN.
- THE CONTRACTOR IS TO CONTACT "DIGGER'S HOTLINE" FOR UTILITY LOCATIONS. MINIMUM 3 BUSINESS DAYS PRIOR TO ANY EXCAVATION / CONSTRUCTION (811 OR 1-800-242-8511).



**SPECIFICATIONS REFERENCE**

ALL CONSTRUCTION SHALL COMPLY WITH THE CITY OF LA CROSSE STANDARD SPECIFICATIONS, CURRENT EDITION, WISDOT STANDARD SPECIFICATIONS, 2017 EDITION, WISDOT CONSTRUCTION AND MATERIALS MANUAL, CURRENT EDITION, WISCONSIN DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES STATE PLUMBING CODE, CURRENT EDITION, AND STANDARD SPECIFICATION FOR SEWER & WATER CONSTRUCTION IN WISCONSIN, 6th EDITION, UNLESS DIRECTED OTHERWISE.

**PROJECT DATUM**

HORIZONTAL COORDINATES HAVE BEEN REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83), 2011 ADJUSTMENT (NAD83(2011)) ON THE LA CROSSE COUNTY COORDINATE SYSTEM, IN U.S. SURVEY FEET.

**TOPOGRAPHIC SURVEY**

THIS PROJECT'S TOPOGRAPHIC SURVEY CONSISTS OF DATA COLLECTED IN 9/16, 1/17, 11/17, & 4/18 BY ISG.

**B.M. ELEVATION= 644.08**

TYP. NUT OF FIRE HYDRANT LOCATED ON THE NORTHEAST CORNER OF THE INTERSECTION OF KANE ST AND HAGAR ST

**LEGEND**

<b>EXISTING</b>		
---	CITY LIMITS	
---	SECTION LINE	
---	QUARTER SECTION LINE	
---	RIGHT OF WAY LINE	
---	PROPERTY / LOTLINE	
---	EASEMENT LINE	
---	ACCESS CONTROL	
---	WATER EDGE	
---	WETLAND BOUNDARY	
---	WETLAND / MARSH	
---	FENCE LINE	
---	CULVERT	
---	STORM SEWER	
---	SANITARY SEWER	
---	SANITARY SEWER FORCEMAIN	
---	WATER	
---	GAS	
---	OVERHEAD ELECTRIC	
---	UNDERGROUND ELECTRIC	
---	UNDERGROUND TELEPHONE	
---	UNDERGROUND TV	
---	OVERHEAD UTILITY	
---	UNDERGROUND UTILITY	
---	UNDERGROUND FIBER OPTIC	
---	CONTOUR (MAJOR)	
---	CONTOUR (MINOR)	
---	DECIDUOUS TREE	
---	CONIFEROUS TREE	
---	TREE LINE	
---	MANHOLE/STRUCTURE	
---	CATCH BASIN	
---	HYDRANT	
---	VALVE	
---	CURB STOP	
---	POWER POLE	
---	UTILITY PEDESTAL / CABINET	
<b>PROPOSED</b>		
---	LOT LINE	
---	RIGHT OF WAY	
---	EASEMENT	
---	CULVERT	
---	STORM SEWER	
---	STORM SEWER (PIPE WIDTH)	
---	SANITARY SEWER	
---	SANITARY SEWER (PIPE WIDTH)	
---	WATER	
---	GAS	
---	OVERHEAD ELECTRIC	
---	UNDERGROUND ELECTRIC	
---	UNDERGROUND TV	
---	CONTOUR	
---	MANHOLE	
---	CATCH BASIN	
---	HYDRANT	
---	VALVE	

**CIVIL SHEET INDEX**

**SHEET INDEX**

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C5-20	NOTES & DETAILS

**Garden Terrace - Multifamily Apartments & Community Center**

733 Kane Street  
La Crosse, WI 54603

Owner  
Impact Seven  
2961 Decker Drive  
Rice Lake, WI 54868

PROJECT NUMBER 17-19647

ISSUED FOR:  
BOZA PLAN SET 5-23-2018

REVISION FOR:  
NO. DESCRIPTION DATE

**BOZA PLAN SET - NOT FOR CONSTRUCTION**

DRAWN BY CLF  
CHECKED BY KBR

SITE DATA PLAN



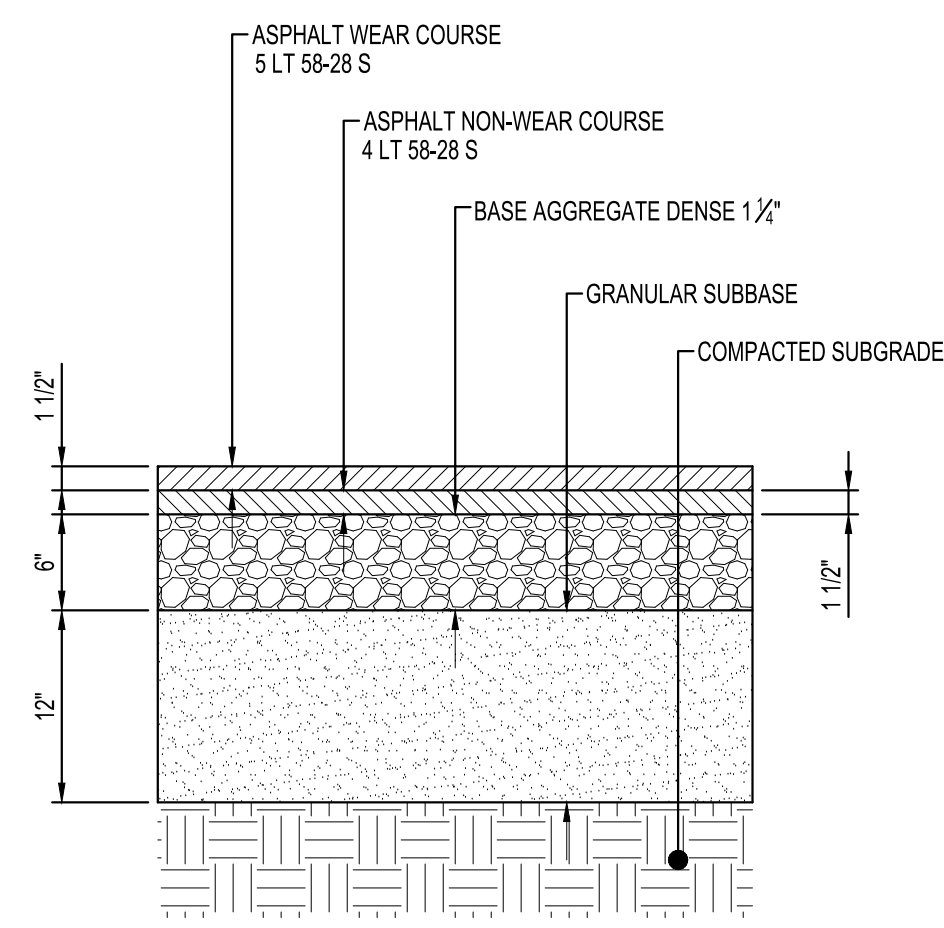


**Garden Terrace -  
Multifamily Apartments  
& Community Center**

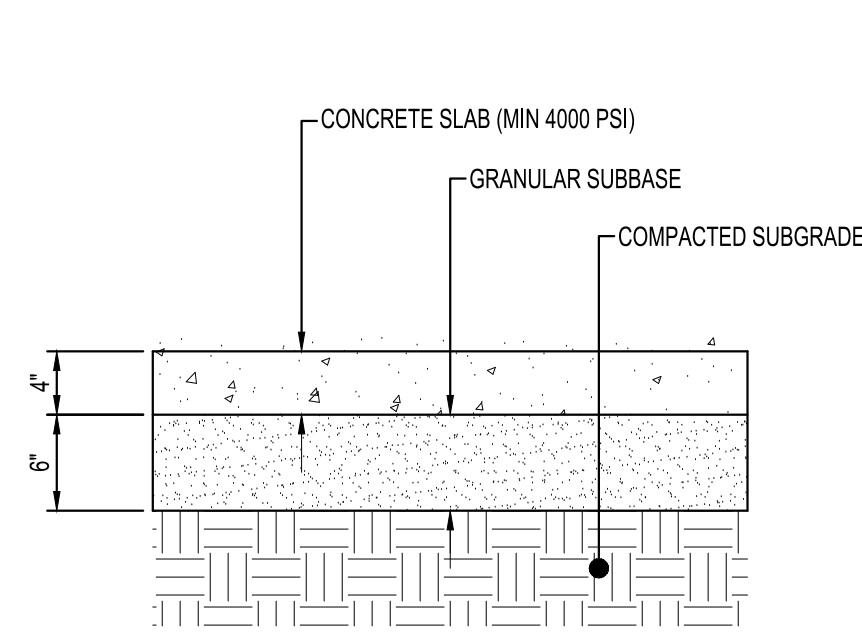
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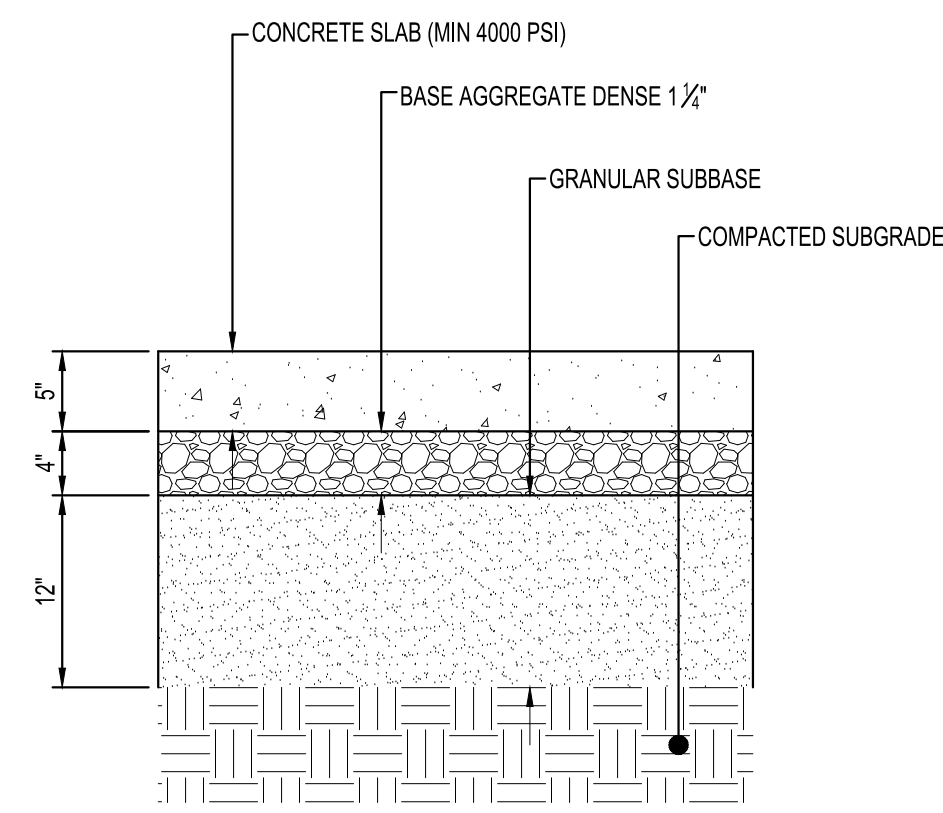
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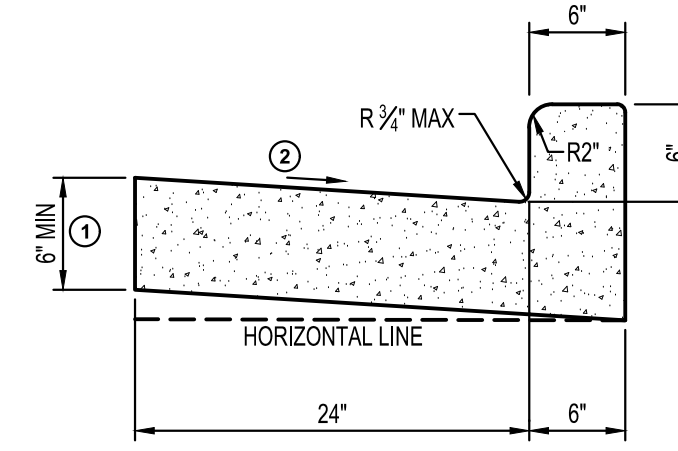
**ASPHALT PAVEMENT**  
NTS ST110



**CONCRETE WALK**  
NTS ST160



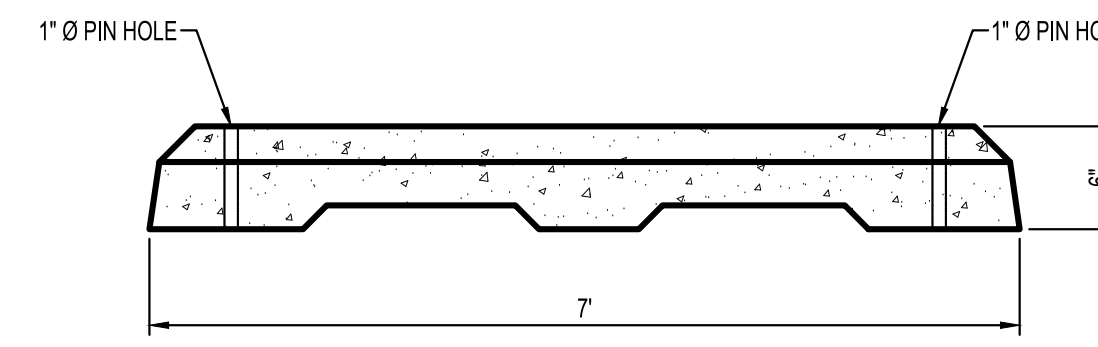
**STANDARD  
CONCRETE PAVEMENT**  
NTS ST120



**NOTES:**

- ① 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" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ② USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

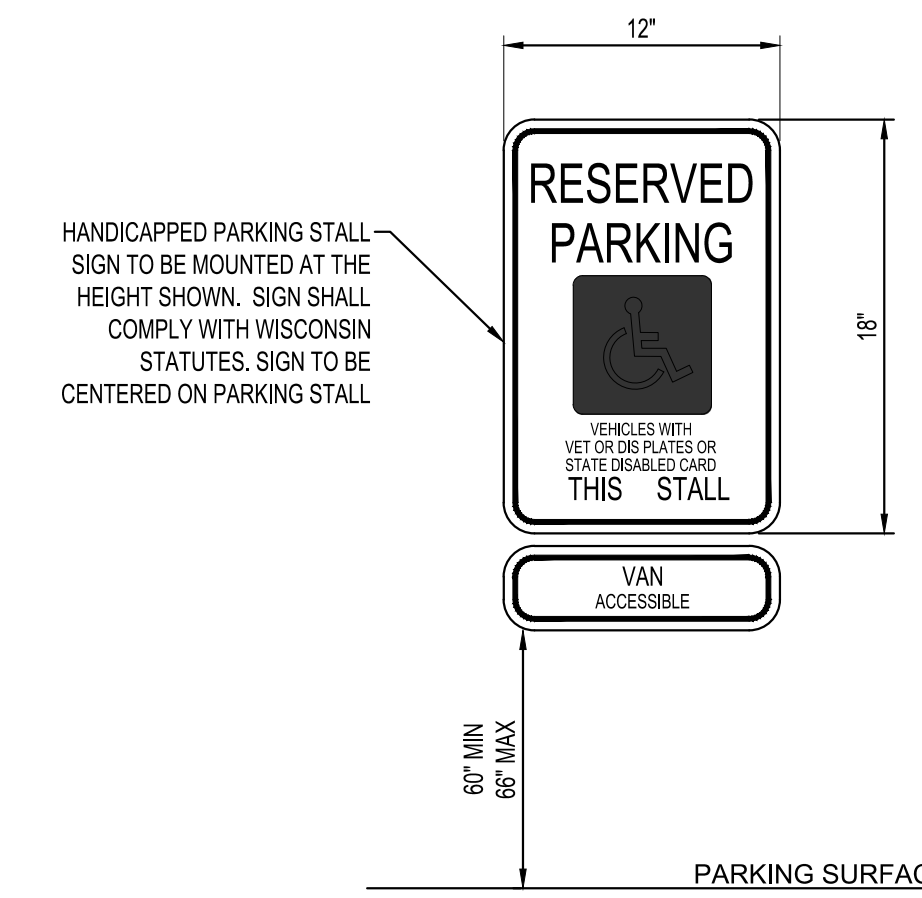
**30" CONCRETE  
CURB & GUTTER**  
NTS ST207



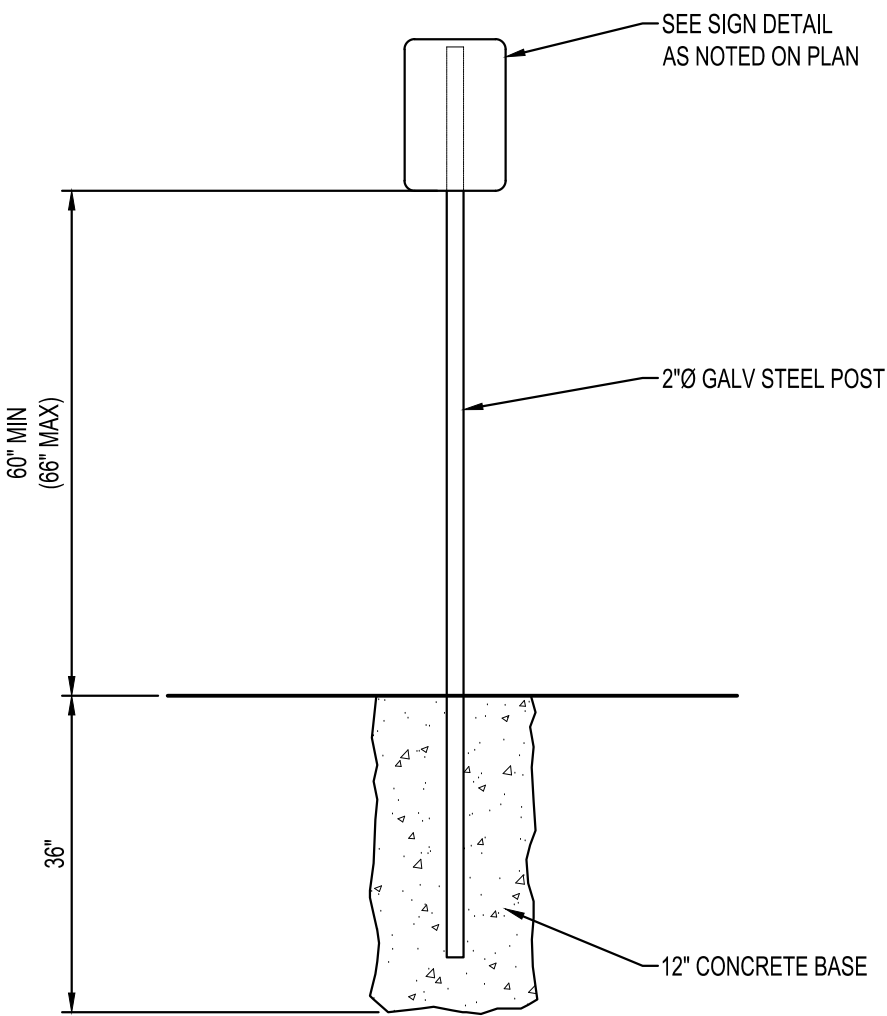
**NOTES:**

- TOTAL WEIGHT = 275 LBS
- CONCRETE SPEC = 5000 LFBS @ 28 DAYS
- REINFORCEMENT = 2 - 3/4" BARS

**CONCRETE WHEEL STOP**  
NTS LD700



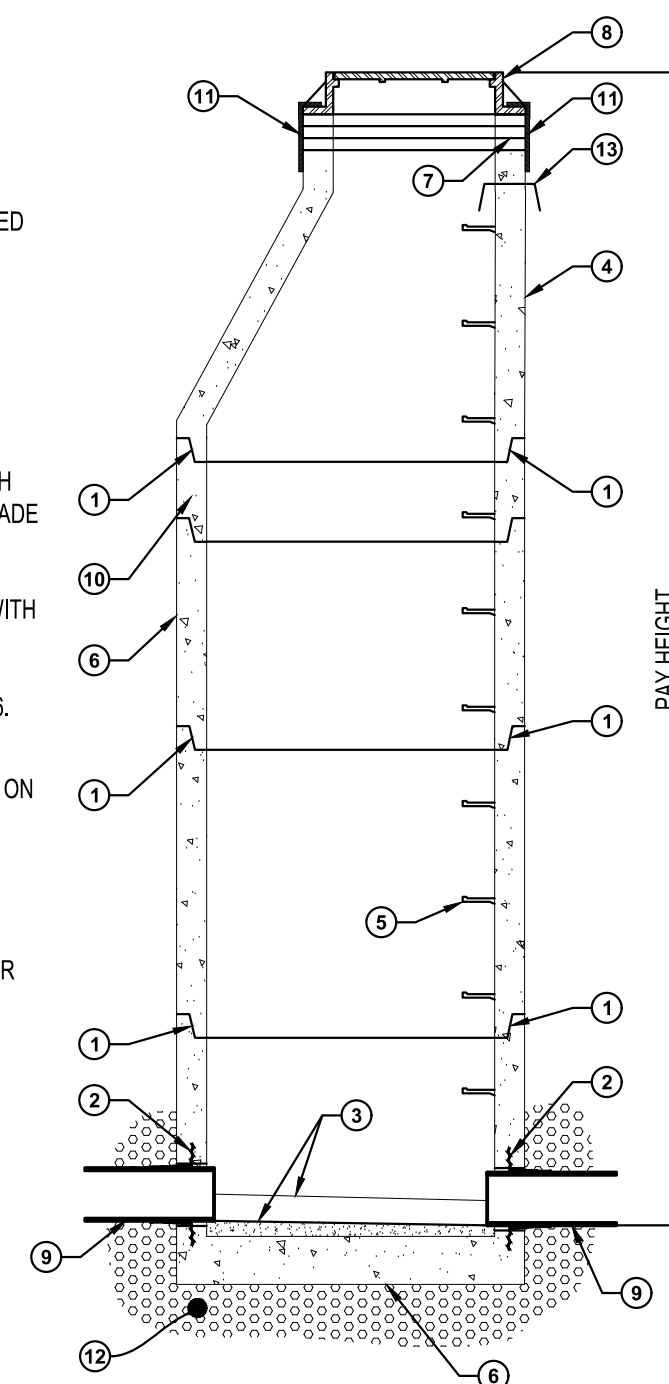
**ACCESSIBLE PARKING SIGN**  
NTS PM100



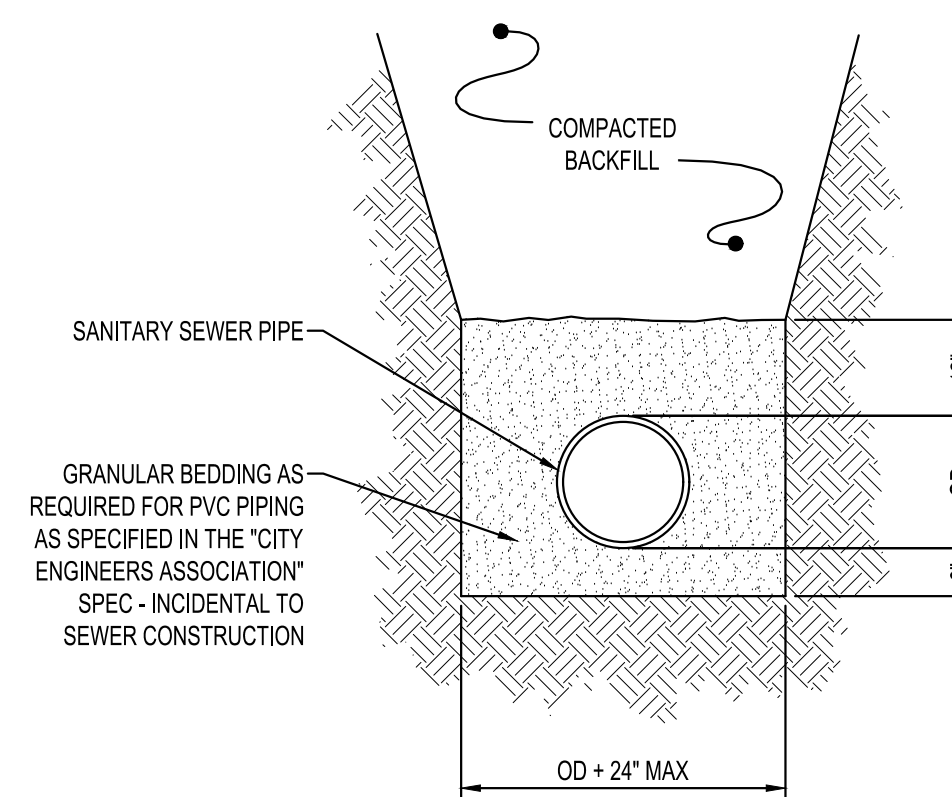
**TYPICAL  
SIGN POST**  
NTS PM200

**NOTES:**

- ① RUBBER O-RING GASKET
- ② FLEXIBLE WATER TIGHT PIPE BOOT AS APPROVED BY THE ENGINEER
- ③ SHAPED INVERT, TO BE APPROVED BY THE ENGINEER
- ④ 4" TALL PRECAST CONCRETE ECCENTRIC CONE
- STEEL REINFORCED PLASTIC MANHOLE STEPS SPACED AT 16". POLYPROPYLENE PLASTIC WITH NO 2 DEFORMED STEEL ROD REINFORCING, GRADE 60.
- ⑤ PRECAST REINFORCED CONCRETE MANHOLE WITH GASKETED JOINTS AND INTEGRAL BOTTOM.
- ⑥ PLASTIC ADJUSTING RINGS, MIN OF 3, MAX OF 6.
- NEENAH R1733 WITH TWO SELF-CLEANING PICK HOLES AND STAMPED WITH "SANITARY SEWER" ON LIDS
- ⑦ SEE PLAN FOR PIPES AND SIZES
- ⑧ 12" - 16" ADJUSTING SECTION
- INF-SHIELD WRAP EXTERNAL MANHOLE SEAL OR APPROVED EQUAL SHALL BE PLACED AROUND CASTING AND ADJUSTING RINGS.
- ⑨ 1-1/2" ROCK BACKFILL (INCIDENTAL)
- ⑩ TRACER 12" SECURED INSIDE 1/2" STRIPPED.



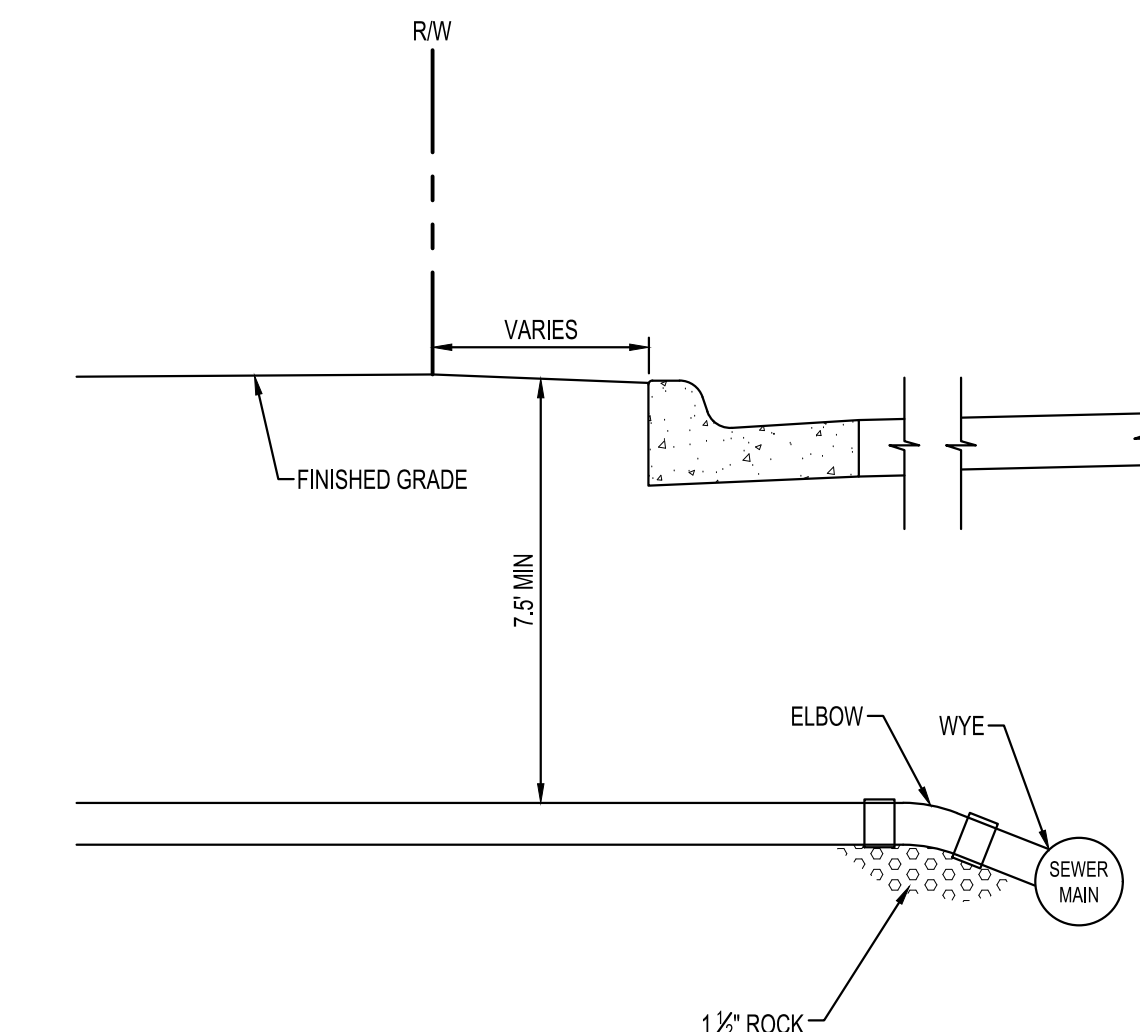
**TYPICAL  
SANITARY MANHOLE**  
NTS SA100



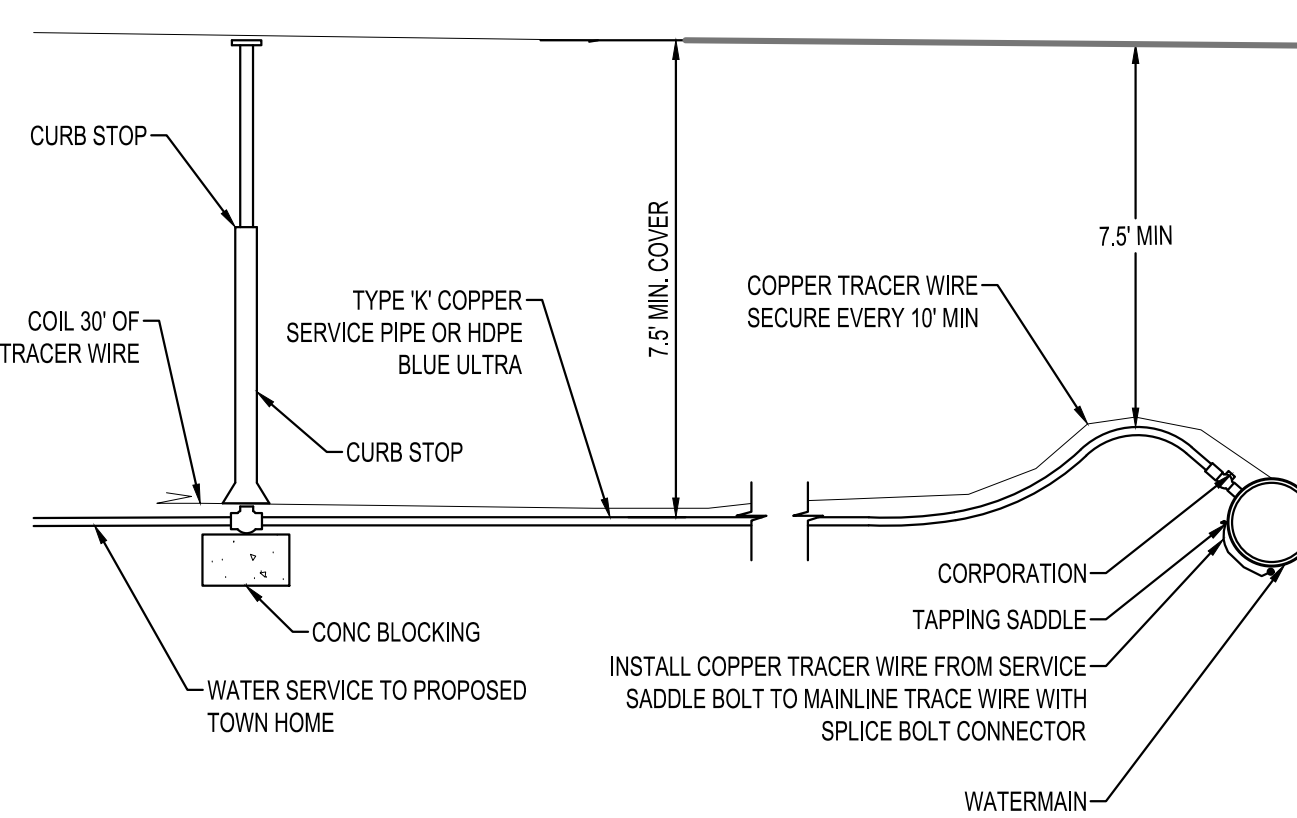
**NOTES:**

- GRANULAR BEDDING AND ENCASEMENT FOR SANITARY SEWER PIPES SHALL BE INCIDENTAL TO CONSTRUCTION

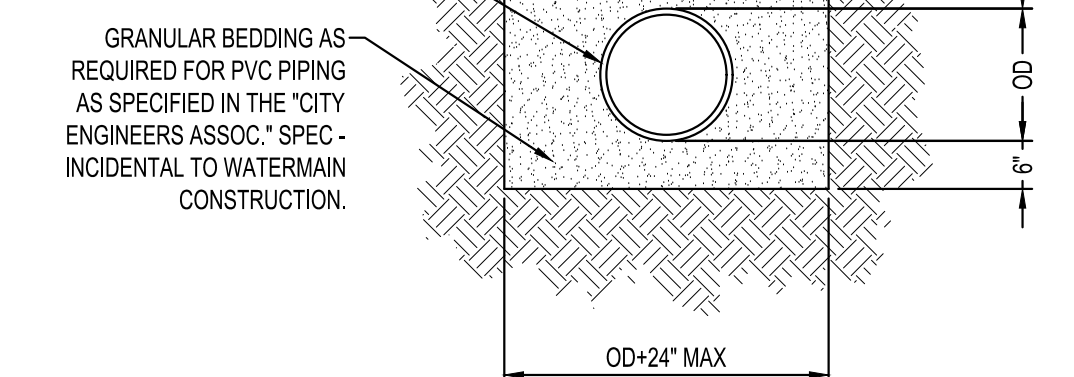
**PIPE BEDDING  
SANITARY SEWER**  
NTS SA400



**RESIDENTIAL  
SANITARY SERVICE**  
NTS SA300



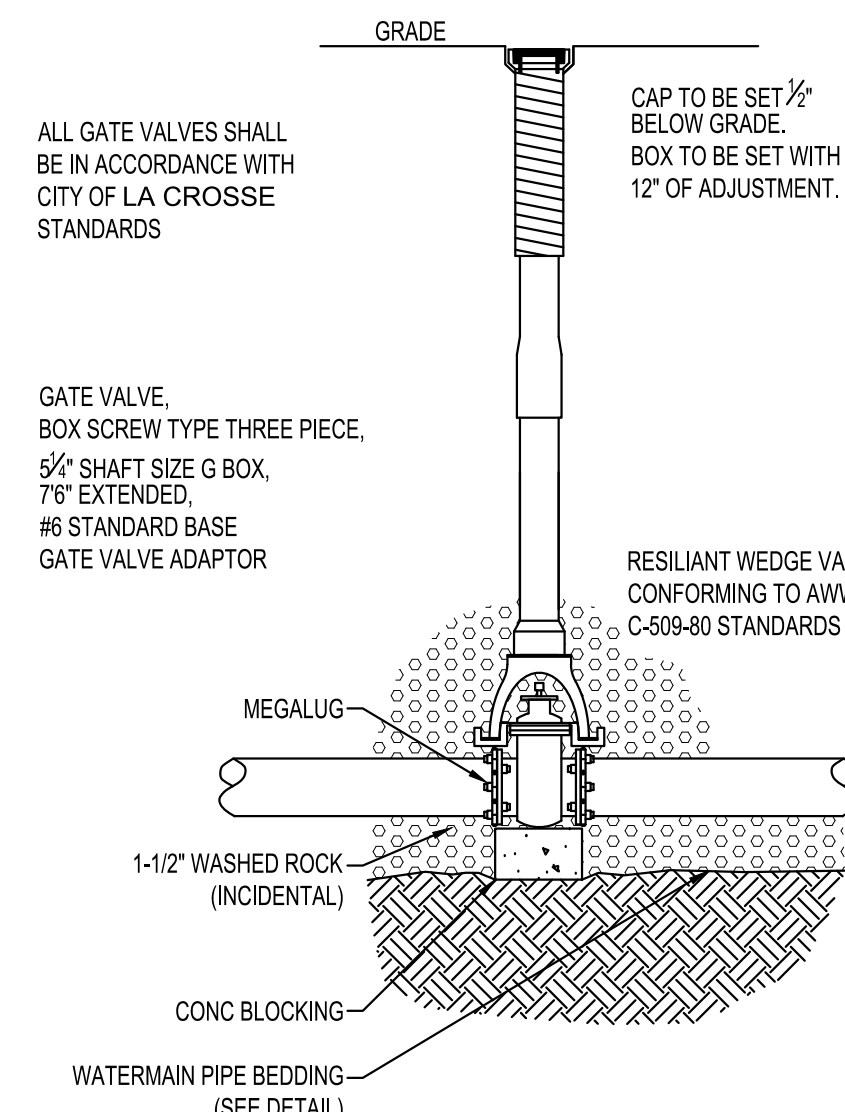
**TYPICAL WATER SERVICE**  
NTS WM500



**NOTE:**

- GRANULAR BEDDING AND ENCASEMENT FOR WATERMAIN PIPES SHALL BE INCIDENTAL TO CONSTRUCTION

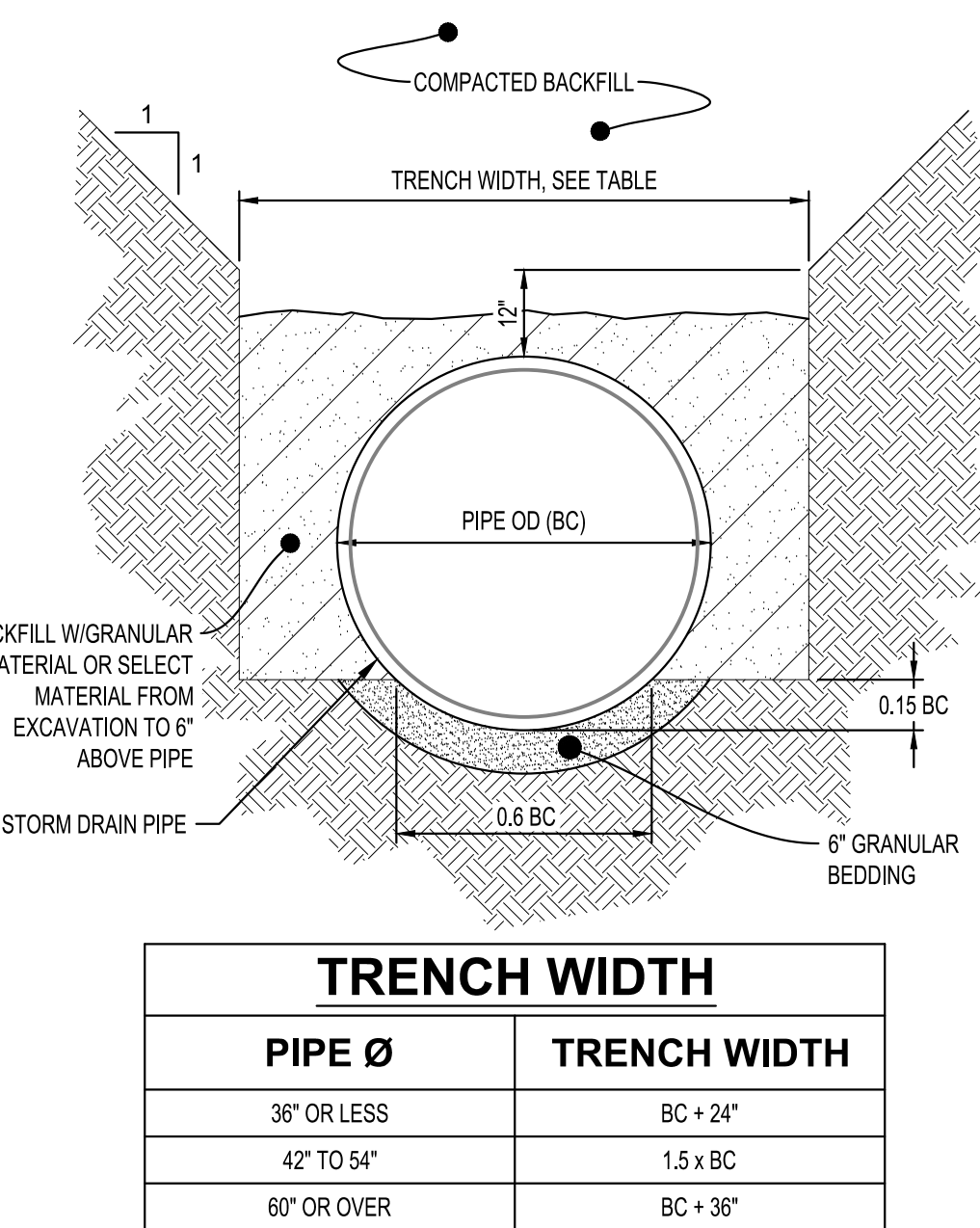
**PIPE BEDDING  
WATER MAIN**  
NTS WM300



**NOTES:**

- INSTALL TOP NUT EXTENDER TO 7" DEPTH ON ALL VALVES WITH OVER-DEPTH

**TYPICAL  
GATE VALVE & BOX INSTALLATION**  
NTS WM200

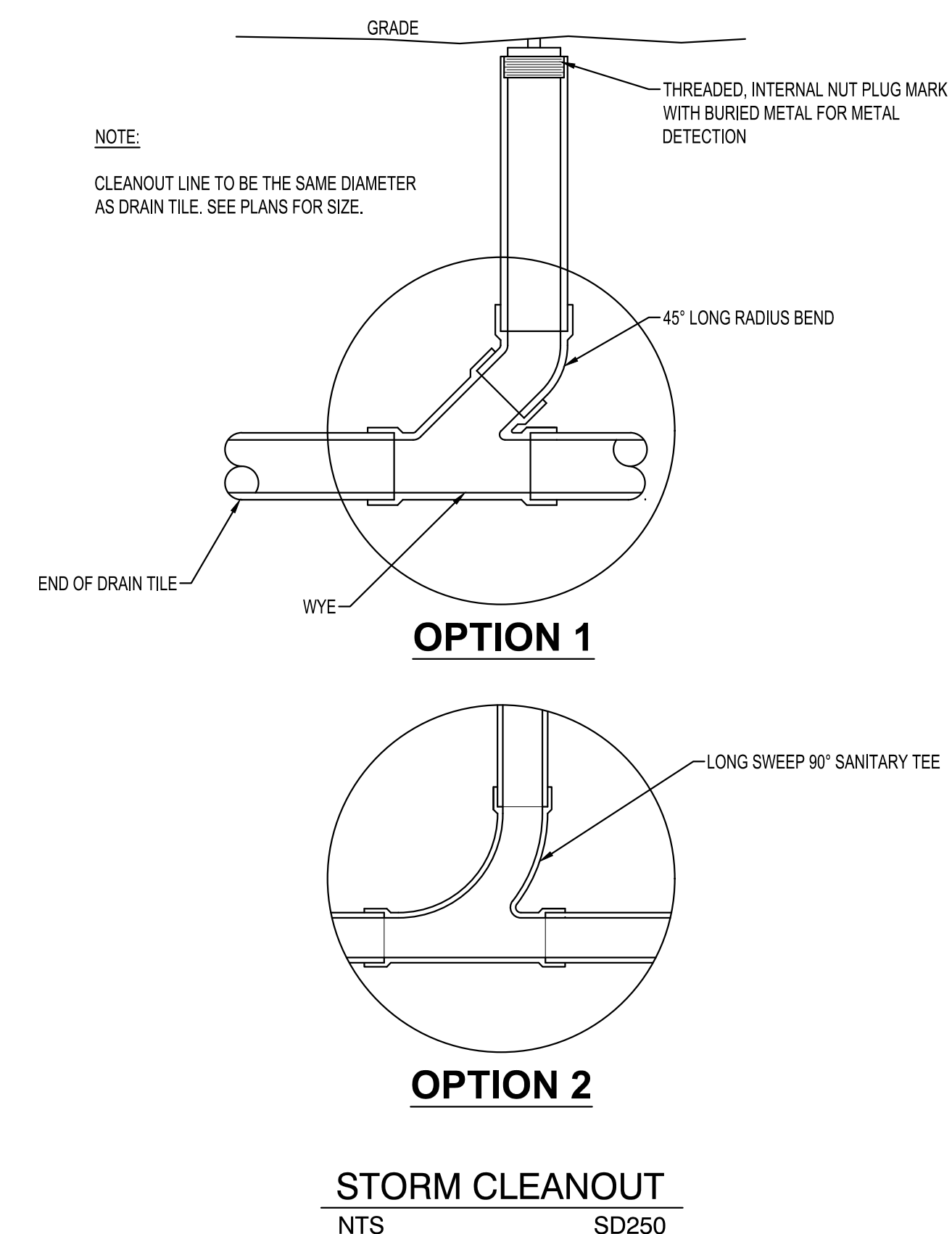


TRENCH WIDTH	
PIPE Ø	TRENCH WIDTH
36" OR LESS	BC + 24"
42" TO 54"	1.5 x BC
60" OR OVER	BC + 36"

**NOTES:**

- GRANULAR BEDDING AND BACKFILL FOR STORM DRAIN PIPES SHALL BE INCIDENTAL TO CONSTRUCTION

**NON-CONCRETE  
STORM DRAIN PIPE BEDDING**  
NTS SD600



**STORM CLEANOUT**  
NTS SD250

ISSUED FOR:  
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**SITE DETAILS**



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PROJECT NUMBER 17-19647

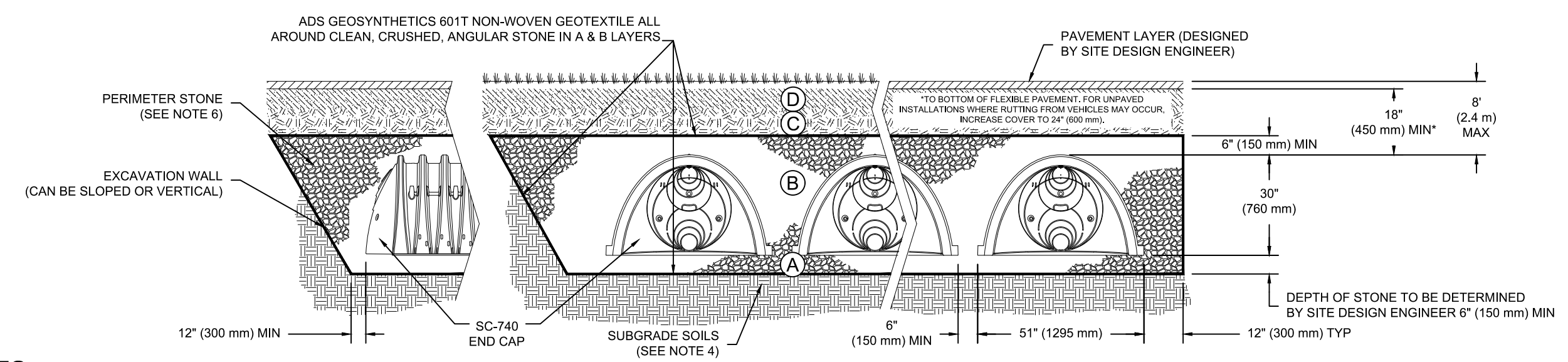
ISSUED FOR: BOZA PLAN SET 5-23-2018

REVISION FOR: NO. DESCRIPTION DATE

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 1" (25.4 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 <sup>1</sup> A-1, A-2.4, A-3 OR AASHTO M43 <sup>2</sup> 3, 357, 4, 467, 5, 56, 57, 6, 83, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (5330 kg). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (9070 kg).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 <sup>2</sup> 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 <sup>2</sup> 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>1</sup>

- PLEASE NOTE:
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR, FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
  - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) MAX LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
  - WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTOR EQUIPMENT. FOR SPECIAL LOAD DESIGN, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



- NOTES:**
- SC-740 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
  - SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
  - "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
  - THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
  - PERMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
  - ONCE LAYER 'C' IS PLACED, ANY SOIL MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEERS DISCRETION.

PROPOSED LAYOUT

105	STORMTECH SC-740 CHAMBERS
14	STORMTECH SC-740 END CAPS
6	STONE ABOVE (H)
6	STONE BELOW (H)
40	% STONE VOID
8,778	INSTALLED SYSTEM VOLUME (CF)
4,202	SYSTEM AREA (SF)
357 + 347	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS

MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	647.00
MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	641.00
MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	640.50
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	640.50
MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT):	640.50
TOP OF STONE:	638.50
TOP OF SC-740 CHAMBER:	639.00
12" TOP MANHOLD INVERT:	637.54
12" BOTTOM MANHOLD INVERT:	636.80
24" ISOLATOR ROW INVERT:	636.51
BOTTOM OF SC-740 CHAMBER:	636.50
UNDERDRAIN INVERT:	636.00
BOTTOM OF STONE:	636.00

**INSPECTION & MAINTENANCE**

STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT

- INSPECTION PORTS (IF PRESENT)
  - REMOVE OPEN LID OR NYLOPLAST INLINE DRAIN
  - REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - LOWER CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - IF SEDIMENT IS AT OR ABOVE 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- ALL ISOLATOR ROWS
  - REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
  - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
    - MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - IF SEDIMENT IS AT OR ABOVE 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS

- A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS. RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

**NOTES**

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

**UNDERDRAIN DETAIL**

NTS

STORMTECH CHAMBERS

STORMTECH END CAP

FOUNDATION STONE BENEATH CHAMBERS

ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE

SECTION A-A

SECTION B-B

ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE

FOUNDATION STONE BENEATH CHAMBERS

STORMTECH END CAP

ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE

FOUNDATION STONE BENEATH CHAMBERS

NUMBER AND SIZE OF UNDERDRAINS PER SITE DESIGN ENGINEER

6" (150 mm) TYP FOR SC-310 & SC-160R SYSTEMS

6" (150 mm) TYP FOR SC-740, DC-780, MC-3500 & MC-4500 SYSTEMS

**SC-740 TECHNICAL SPECIFICATION**

NTS

90.7" (2304 mm) ACTUAL LENGTH

85.4" (2169 mm) INSTALLED LENGTH

→ BUILD ROW IN THIS DIRECTION

START END

OVERLAP NEXT CHAMBER HERE (COVER SMALL CORRUGATION)

39.3" (742 mm)

45.9" (1166 mm)

51.0" (1295 mm)

30.0" (762 mm)

12.2" (310 mm)

**NOMINAL CHAMBER SPECIFICATIONS**

SIZE (W X H X INSTALLED LENGTH)

51.0" X 30.0" X 85.4" (1295 mm X 762 mm X 2169 mm)

CHAMBER STORAGE

35.9 CUBIC FEET (1.30 m³)

MINIMUM INSTALLED STORAGE\*

79.8 CUBIC FEET (2.25 m³)

WEIGHT

75.0 lbs. (33.6 kg)

\*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS

PART #	STUB	A	B	C
SC740EPE087 / SC740EPE06TPC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	0.5" (13 mm)
SC740EPE088 / SC740EPE08BPC	8" (200 mm)	12.2" (310 mm)	16.9" (429 mm)	—
SC740EPE089 / SC740EPE08BPC	8" (200 mm)	12.2" (310 mm)	14.5" (368 mm)	0.6" (15 mm)
SC740EPE107 / SC740EPE10BPC	10" (250 mm)	13.4" (340 mm)	—	0.7" (18 mm)
SC740EPE127 / SC740EPE12TPC	12" (300 mm)	14.7" (373 mm)	12.5" (318 mm)	—
SC740EPE109 / SC740EPE10BPC	10" (250 mm)	14.7" (373 mm)	—	1.2" (30 mm)
SC740EPE157 / SC740EPE15TPC	15" (375 mm)	18.4" (467 mm)	9.0" (229 mm)	—
SC740EPE108 / SC740EPE10BPC	10" (250 mm)	18.4" (467 mm)	—	1.3" (33 mm)
SC740EPE187 / SC740EPE18TPC	18" (450 mm)	19.7" (500 mm)	—	1.8" (41 mm)
SC740EPE248	24" (600 mm)	18.5" (470 mm)	—	1.1" (28 mm)

ALL STUBS EXCEPT FOR THE SC740EPE248 ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

\*FOR THE SC740EPE248 THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE 12" (300 mm) STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL.

STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH SC-740 OR SC-310.
- CHAMBERS SHALL BE MANUFACTURED FROM VIRGIN POLYPROPYLENE OR POLYETHYLENE RESINS.
- CHAMBERS ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPIDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL MEET ASTM F2922 (POLYETHYLENE OR ASTM F2418-16 (POLYPROPYLENE)), "STANDARD SPECIFICATION FOR THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL, BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE.
  - A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.18 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.
  - A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET. THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 OR ASTM F2922 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
  - STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310/SC-740 SYSTEM

- STORMTECH SC-310 & SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURERS REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-780 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
  - STONE SHOOTER LOCATED OFF THE CHAMBER BED.
  - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
  - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELLED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4" - 2" (20-50 mm).
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

- STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
  - THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED:
    - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
    - NO RUBBER Tired LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
    - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
  - FULL 3P" (90 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.
- USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.
- CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

**PROJECT INFORMATION**

ENGINEERED BY	DAVE BRONKHORST
PRODUCT MANAGER	262-744-2306 JAKE BRONKHORST@ADS-PIPE.COM
ADS SALES REP	THEO TAYLOR 808-618-1254 THEO.TAYLOR@ADS-PIPE.COM
PROJECT NO.	5063568

DRAWN BY CLF  
CHECKED BY KBR

SITE DETAILS



**GENERAL NOTES**

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS. UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST CONCRETE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGN FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. PROVIDING THAT SUCH ALTERNATE DESIGN MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 36x36", "CATCH BASIN 4-FT", "INLET 24x24", ETC. THE FIRST NUMBER DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPLETE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THE BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONCRETE CONE TOPS ECCENTRIC OR CONCENTRIC OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING ASHOTO WORK AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH IN 100% C-C MAXIMUM SPACING PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMERGENCE MINIMUM LENGTH OF 30 INCHES MINIMUM WALL THICKNESS OF 3 INCHES. TERRAZO METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1/2 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE.

REINFORCING BARS MUST BE A MINIMUM OF 3/8" HIGH AND MEET THE REQUIREMENTS OF ASTM A618.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF ASHOTO 1980 CAN WITHSTAND A VERTICAL LOAD OF 300 LBS. AND A HORIZONTAL LOAD OF 100 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASHOTO DESIGNATION WORK.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

CONCRETE BLOCK WILL NOT BE PERMITTED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANG BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATION. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTERIOR OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES SEE DETAIL "C".

MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT AND 7 INCHES FOR 6-FT DIAMETER PRECAST CATCH BASINS.

FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASHOTO WORK.

PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

CONCRETE KEY POURED AFTER INSTALLATION, 2" DEEP MEASURED FROM TOP OF KEY.

**CATCH BASIN COVER OPENING MATRIX**

CATCH BASIN SIZE	INLET COVER TYPE	ALL 4'S	ALL 8'S	DM	C	F	ALL HS	S	T	V	BM	Z
3-FT	252	X	X	X	X	X	X	X	X	X	X	X
4-FT	202.5	X	X	X	X	X	X	X	X	X	X	X
5-FT	202.5	X	X	X	X	X	X	X	X	X	X	X
6-FT	202.5	X	X	X	X	X	X	X	X	X	X	X

**PIPE MATRIX**

CATCH BASIN SIZE	MAXIMUM RISER PIPE DIAMETER (IN)	MINIMUM RISER PIPE DIAMETER (IN)	90° SEPARATION (IN)
3-FT	18	12	12
4-FT	24	18	18
5-FT	30	24	24
6-FT	36	30	30

**CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED: [Signature]  
DATE: [Date]  
PROJECT: [Project Name]

**INLINE DRAIN**  
NTS SD300

**VERTICAL RAIN LEADER**  
NTS SD400

**BIO-INFILTRATION BASIN**  
NTS SD750

**GENERAL NOTES**

FRAME & COVER (SEE STORM DRAIN SCHEDULE)

TOP SOIL

ADAPTER

PVC RISER SECTION

SEE STORM DRAIN SCHEDULE

BACKFILL WITH GRANULAR MATERIAL OR SELECT MATERIAL FROM EXCAVATION

INVERT (SEE PLAN)

PVC 90° BEND

UNIFORMLY COMPACTED CRUSHED STONE OR GRANULAR BEDDING. SEE SPECIFICATIONS

4" DOWNSPOUT

6" PVC REDUCER

45° FITTING

FINISH FLOOR (SEE PLANS)

BUILDING LINE

GRASS PRE-TREATMENT STRIP

3H:1L MAX.

24" DRAIN BASIN w/24" DOME GRATE

3H:1L MAX.

24" ENGINEERED SOIL WITH A WELL BLENDED MIXTURE (BY VOLUME): 70% USDA COARSE SAND 30% WDRN SPECIFICATION 5100 COMPOST

UNDISTURBED UNCOMPACTED IN-SITU SOIL

**GENERAL NOTES**

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGN FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. PROVIDING THAT SUCH ALTERNATE DESIGN MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

**INLET COVER TYPE "BW"**

**MANHOLE COVERS TYPE "J, J-S, K, L & M"**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED: [Signature]  
DATE: [Date]  
PROJECT: [Project Name]

**A-2 STRUCTURE WITH SUMP**  
NTS

**EROSION CONTROL BLANKET INSTALLATION**  
NTS EC700

**GENERAL NOTES**

CASTING ASSEMBLY

ADJUSTING RINGS AS REQUIRED w/ INTERIOR CHIMNEY SEAL

SEAM

SEAM

ROW OF STAPLES

1" MIN

**STAPLE DETAIL**

2 ROWS OF STAPLES 12" O.C. STAGGERED

TAMP SOIL FIRMLY

1 ROW OF STAPLES 12" O.C.

ANCHOR TRENCH

2 ROWS OF STAPLES STAGGERED 12" O.C. ALONG ROW

BLANKET ROLL END OVERLAP

4" STAGGERED

FLOW DIRECTION

STAPLE

8" MIN

6" MIN

BLANKET SIDE OVERLAP

BLANKET SIDE EDGE

STAPLE EVERY 12"

FLOW DIRECTION

12" STAGGERED

TERMINAL END

STAPLES

12" PVC @ 1.0%

BEST MANAGEMENT PRODUCTS, INC. SMDOUT MODEL 18R

INV (SEE PLAN)

SUMP 632.85

37.5" MIN

**NOTES:**

INSTALL EROSION CONTROL BLANKET (ECB) OVER WATERWAYS AS SHOWN IN THE STORM WATER POLLUTION PREVENTION PLAN.

THE ECB SHALL CONFORM TO MHDOT STANDARD SPECIFICATIONS SECTION 3885.

PREPARE SOIL PRIOR TO INSTALLING ECB, INCLUDING SEEDING AND FERTILIZING.

THE ECB SHALL BE PLACED IN FIRM CONTACT WITH THE SOIL AND NOT BE ALLOWED TO BRIDGE OVER SURFACE IRREGULARITIES. THE MAT SHALL NOT BE STRETCHED.

START LAYING THE MATS BY ROLLING CENTER MAT IN THE DIRECTION OF FLOW, CENTERED ON THE CENTERLINE OF WATERWAY. THERE SHALL NOT BE AN OVERLAP OF MATS AT THE CENTER OF THE WATERWAY.

THE ECB SHALL BE ANCHORED, OVERLAPPED, AND STAPLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS. IF NO MANUFACTURER'S INSTRUCTIONS ARE AVAILABLE, INSTALL THE MAT AS FOLLOWS:

STAPLES SHALL BE "U" SHAPED, 0.12" DIAMETER WIRE OR GREATER (#11 GAUGE). (SEE STAPLE DETAIL FOR DIMENSIONS)

BURY UPSTREAM END OF MAT IN A TRENCH 6" WIDE BY 6" DEEP AND STAPLED IN STAGGERED ROWS ACROSS THE WIDTH AS SHOWN IN DETAIL 1.

C. FOR JOINING ENDS OF ROLLS, OVERLAP END OF UP SLOPE MAT A MINIMUM OF 6" OVER DOWN SLOPE MAT (SHINGLE STYLE). USE A DOUBLE ROW OF STAGGERED STAPLES 4" APART, AS SHOWN IN DETAIL 2.

D. MATS ON SIDE SLOPES SHALL OVERLAP A MINIMUM OF 6" OVER THE MAT BELOW (SHINGLE STYLE). STAPLE OVERLAP AT 12" INTERVALS. (SEE DETAIL 3)

E. THE OUTER EDGE ALONG SIDES OF THE MAT SHALL BE STAPLED EVERY 12". (SEE DETAIL 4)

F. STAPLES ARE TO BE PLACED ALTERNATELY IN COLUMNS (IN THE DIRECTION OF THE WATERWAY) 2' APART AND IN ROWS (ACROSS THE WATERWAY) 3' APART THROUGHOUT THE AREA COVERED BY THE ECB.

G. DOWNSTREAM (TERMINAL) END OF BLANKET SHALL BE STAPLED WITH A DOUBLE ROW OF STAGGERED STAPLES 12" APART. (SEE DETAIL 5)

**ROCK CONSTRUCTION ENTRANCE**  
NTS EC600

**CONCRETE WASHOUT**  
NTS EC500

**SILT FENCE**  
NTS EC100

**GENERAL NOTES**

LOOSEN AS NEEDED SO THAT ENTRANCE IS NOT COMPACTED, REPLACE/CLEAN AGGREGATE ONCE DIRTY

50' MINIMUM

20' MINIMUM

18" HIGH (MIN) CUT OFF BERM TO MINIMIZE RUNOFF FROM LEAVING SITE EXTEND SILT FENCE FROM EITHER SIDE OF BERM AS NEEDED

12" MINIMUM DEPTH OF 3" TO 6" DIA. CRUSHED AGGREGATE

WISDOT STANDARD SPECIFICATION 646 TYPE SAS PERMEABLE GEOTEXTILE FABRIC BENEATH ROCK

**TYPE B (WITHOUT CURB BOX)**

TYPE FF GEOTEXTILE FABRIC (EXTEND FABRIC A MINIMUM OF 10" AROUND GRATE PERIMETER FOR MAINTENANCE OR REMOVAL)

WOOD 2x4 EXTENDS 8" BEYOND GRATE WIDTH ON BOTH SIDES, SECURE TO GRATE w/ PLASTIC TIES

FLAP POCKET (SEE NOTES)

**TYPE C (WITH CURB BOX)**

TYPE FF GEOTEXTILE FABRIC (EXTEND FABRIC A MINIMUM OF 10" AROUND GRATE PERIMETER FOR MAINTENANCE OR REMOVAL)

MINIMUM 10-MIL THICK PLASTIC SHEETING OR APPROVED EQUAL

1" DEEP IMPERVIOUS CLAY LINER

**NOTES:**

CONTRACTOR SHALL INSTALL A SIGN INDICATING THE CONCRETE WASHOUT AREA.

CONTRACTOR SHALL MAINTAIN WASHOUT AREA TO REMOVE MATERIALS BEYOND 75% CAPACITY.

WASHOUT AREA SHALL NOT BE PLACED WITHIN 50' OF STORM DRAINS, OPEN DITCHES OR BODIES OF WATER.

CONTRACTOR SHALL INSPECT WASHOUT AREA AS NECESSARY TO PREVENT LEAKS AND OVER TOPPING.

WASHOUT AREA SHALL BE REMOVED AFTER CONSTRUCTION IS COMPLETE.

**GENERAL NOTES**

WOOD POSTS LENGTH 3'-4" 20" DEPTH IN GROUND

GEOTEXTILE FABRIC ONLY

BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL

INSET A

TYPICAL SILT FENCE

GEOTEXTILE FABRIC

EXCESS FABRIC

TRENCH

GEOTEXTILE FABRIC (TYP)

WOOD POST (TYP)

**INSET A**

FOLD 3" MAX

SUPPORT CORD GEOTEXTILE FABRIC

TIE BACK BETWEEN FENCE POST & ANCHOR

SILT FENCE

ANCHOR STAKE MIN. 18" LONG

TIE BACK (WHEN ADDITIONAL SUPPORT IS NEEDED)

**NOTES:**

ATTACH FABRIC TO THE POSTS WITH WIRE STAPLES OR WOODEN LATH & NAILS.

ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS.

8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY & ANCHOR TH GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH, BACKFILL, & COMPACT TRENCH WITH EXCAVATED SOIL.

WOOD POST SHALL BE A MINIMUM SIZE OF 1 1/2" x 1 1/2" OF OAK OR HICKORY.

CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS:

A. TWIST METHOD - OVERLAP THE END POSTS & TWIST, OR ROTATE AT LEAST 180°.

B. HOOK METHOD - HOOK END OF EACH SILT FENCE LENGTH.



Garden Terrace - Multifamily Apartments & Community Center

733 Kane Street  
La Crosse, WI 54603

Owner  
Impact Seven  
2961 Decker Drive  
Rice Lake, WI 54868

PROJECT NUMBER 17-19647

ISSUED FOR: BOZA PLAN SET 5-23-2018

REVISION FOR: NO. DESCRIPTION DATE

BOZA PLAN SET - NOT FOR CONSTRUCTION

DRAWN BY: CLF  
CHECKED BY: KBR

SITE DETAILS





**Garden Terrace -  
Multifamily Apartments  
& Community Center**

733 Kane Street  
La Crosse, WI 54603

Owner  
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ISSUED FOR:  
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REVISION FOR: DATE  
NO. DESCRIPTION

**BOZA  
PLAN SET - NOT FOR  
CONSTRUCTION**

DRAWN BY CLF  
CHECKED BY KBR

**EROSION CONTROL PLAN  
(EXISTING CONDITIONS)**

**C1-10**

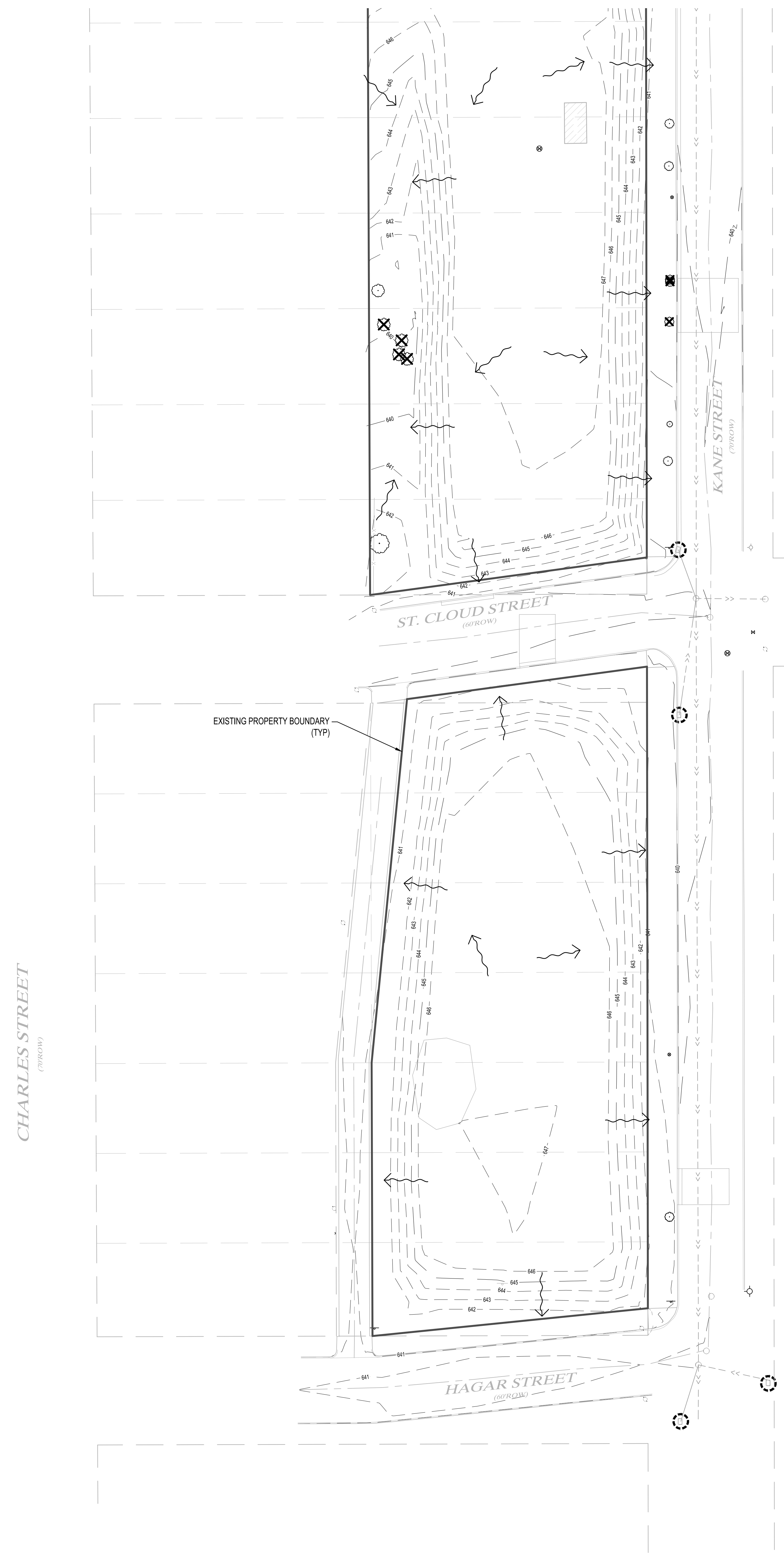
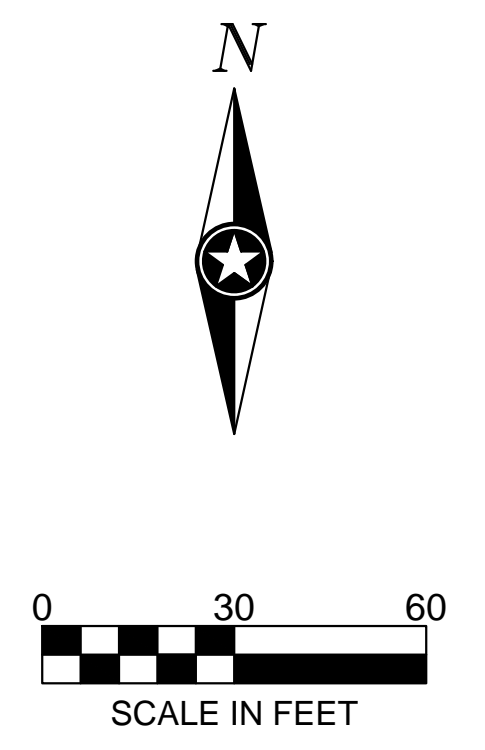
EROSION CONTROL LEGEND			
SYMBOL	DESCRIPTION	UNITS	QUANTITY
	PERIMETER CONTROL	LF	1,750
	EXISTING STORM DRAIN INLET PROTECTION	EACH	SEE C1-10
	STABILIZED CONSTRUCTION EXIT	EACH	1
	EXISTING DRAINAGE ARROW		
	PROPOSED DRAINAGE ARROW		
	EXISTING CONTOUR (MINOR INTERVAL)		
	EXISTING CONTOUR (MAJOR INTERVAL)		

QUANTITIES ARE FOR INFORMATIONAL PURPOSES TO MEET THE REQUIREMENTS OF THE CONSTRUCTION STORMWATER PERMIT. NO GUARANTEE IS MADE TO THE ACTUAL QUANTITIES REQUIRED.

THE QUANTITIES SHOWN ARE TOTAL FOR THE ENTIRE PROJECT NOT SPECIFIC TO THIS SHEET.

SEE SITE RESTORATION PLAN FOR FINAL TURF ESTABLISHMENT

NOTE: SWPPP COVERAGE INCLUDES ELECTRIC, GAS, TELEPHONE, AND CABLE INSTALLATION. EACH COMPANY OR THEIR SUBCONTRACTOR IS RESPONSIBLE TO FOLLOW THE REQUIREMENTS OF THIS SWPPP INCLUDING PROVIDING THEIR OWN RESTORATION IF INSTALLATION OCCURS AFTER PRIMARY INSTALLATION OF SEEDING/SODDING/MULCHING DURING CONSTRUCTION OF EACH UTILITY.







**Garden Terrace -  
Multifamily Apartments  
& Community Center**

733 Kane Street  
La Crosse, WI 54603

Owner  
Impact Seven  
2961 Decker Drive  
Rice Lake, WI 54868

PROJECT NUMBER 17-19647

ISSUED FOR:  
BOZA PLAN SET 5-23-2018

REVISION FOR: DATE  
NO. DESCRIPTION

EROSION CONTROL LEGEND			
SYMBOL	DESCRIPTION	UNITS	QUANTITY
— PC —	*PERIMETER CONTROL	LF	1,800
⊙	EXISTING STORM DRAIN INLET PROTECTION	EACH	SEE C1-10
○	PROPOSED STORM DRAIN INLET PROTECTION	EACH	3
⊞	STABILIZED CONSTRUCTION EXIT	EACH	2
↗	EXISTING DRAINAGE ARROW		
↗	PROPOSED DRAINAGE ARROW		
--- 101 ---	EXISTING CONTOUR (MINOR INTERVAL)		
--- 100 ---	EXISTING CONTOUR (MAJOR INTERVAL)		
--- 101 ---	PROPOSED CONTOUR (MINOR INTERVAL)		
--- 100 ---	PROPOSED CONTOUR (MAJOR INTERVAL)		

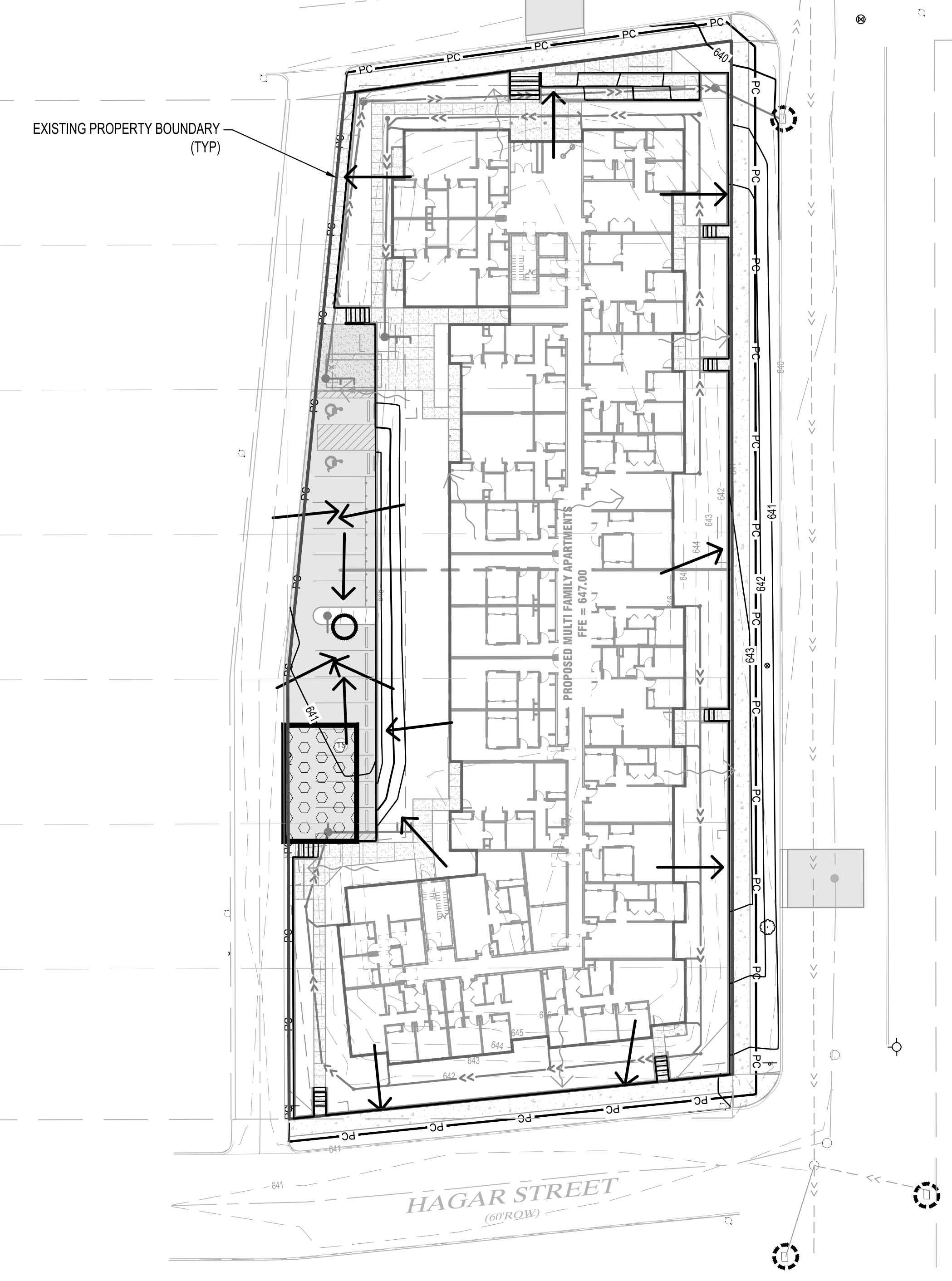
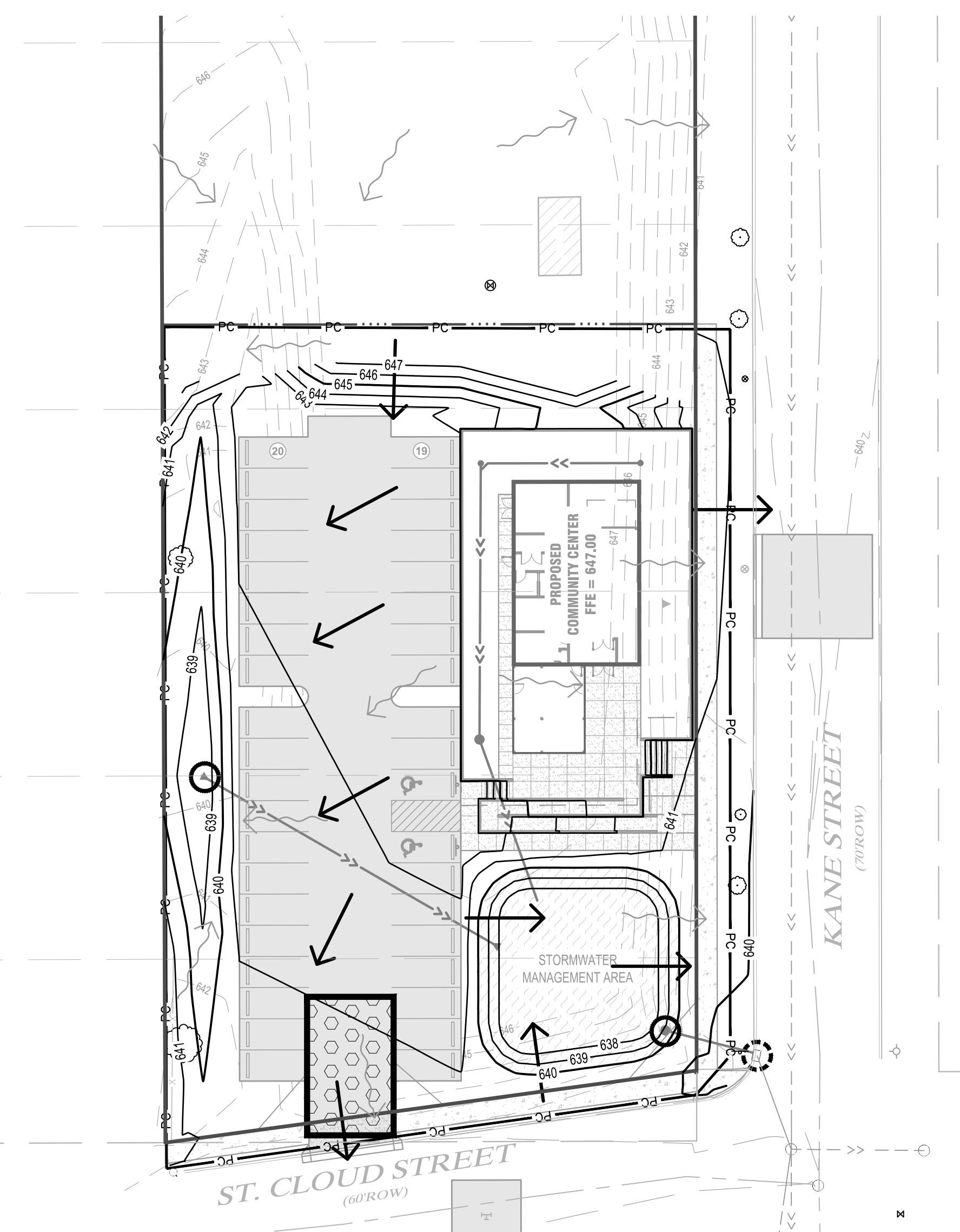
\* PERIMETER CONTROL CAN BE S/LT FENCE, BIO-ROLL OR WOOD MULCH.

QUANTITIES ARE FOR INFORMATIONAL PURPOSES TO MEET THE REQUIREMENTS OF THE CONSTRUCTION STORMWATER PERMIT. NO GUARANTEE IS MADE TO THE ACTUAL QUANTITIES REQUIRED.

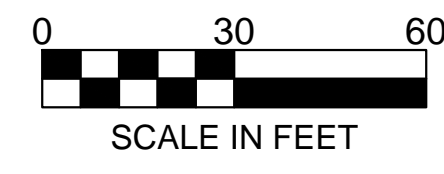
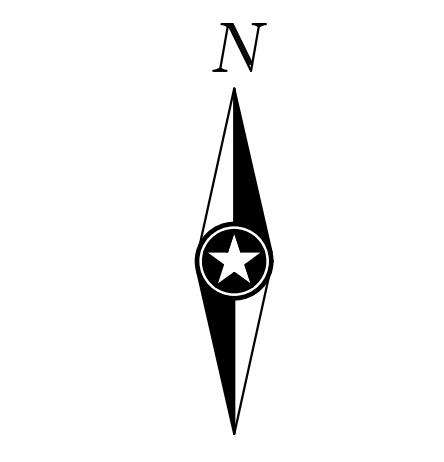
THE QUANTITIES SHOWN ARE TOTAL FOR THE ENTIRE PROJECT NOT SPECIFIC TO THIS SHEET.

SEE SITE RESTORATION PLAN FOR FINAL TURF ESTABLISHMENT

NOTE: SWPPP COVERAGE INCLUDES ELECTRIC, GAS, TELEPHONE, AND CABLE INSTALLATION. EACH COMPANY OR THEIR SUBCONTRACTOR IS RESPONSIBLE TO FOLLOW THE REQUIREMENTS OF THIS SWPPP INCLUDING PROVIDING THEIR OWN RESTORATION IF INSTALLATION OCCURS AFTER PRIMARY INSTALLATION OF SEEDING/SODDING/MULCHING DURING CONSTRUCTION OF EACH UTILITY.



CHARLES STREET  
(ROW)



**BOZA  
PLAN SET - NOT FOR  
CONSTRUCTION**

DRAWN BY CLF  
CHECKED BY KBR

EROSION CONTROL PLAN  
(PROPOSED CONDITIONS)

**C1-20**





**Garden Terrace - Multifamily Apartments & Community Center**

733 Kane Street  
La Crosse, WI 54603

Owner  
Impact Seven  
2961 Decker Drive  
Rice Lake, WI 54868

PROJECT NUMBER 17-19647

ISSUED FOR:  
BOZA PLAN SET 5-23-2018

REVISION FOR: DATE  
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BOZA PLAN SET - NOT FOR CONSTRUCTION

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**EROSION CONTROL PLAN NOTES**

**STORM WATER POLLUTION PREVENTION PLAN NOTES:**

GENERAL PROJECT INFORMATION:

PROJECT NARRATIVE:

This project consists of the construction of a 21,574 sq apartment building, bituminous pavement, concrete pavement, concrete sidewalk, curb & gutter, retaining walls, stormwater management area, storm service, sanitary service, and water service, along with all the necessary grading, paving, utilities, erosion control, site restoration, and any incidental items.

PROJECT DATES:

Anticipated Start Date: 07/16/2018

RESPONSIBLE PARTIES:

Contractor and Owner are required to apply for and receive a Wisconsin Pollution Discharge Elimination System (WPDES) Stormwater Construction Permit from the WDNR at least 14 working days prior to beginning work.

Contractor and owner shall identify a person knowledgeable and experienced in the application of erosion prevention and sediment control BMP's who will oversee the implementation of the Erosion Control Plan according to WDNR requirements.

Company: Contact Person: Phone:

Address:

Company: Contact Person: Phone:

Address:

Owner shall identify the entity responsible for the long term Operation and Maintenance of the storm water management system.

Company: Contact Person: Phone:

PROJECT AREAS:

Total project size (disturbed area) = 1.27 acres

Minimum area requiring WDNR permit = 1.00 acres

**\*\*PROJECT DOES REQUIRE A WPDES PERMIT\*\***

Existing area of impervious surface = 0.01 acres

Post construction area of impervious surface = 1.58 acres

Total new impervious surface area created = 1.57 acres

RECEIVING WATERS:

Surface waters which will receive storm water from the site within 1 mile (erial radius measurement) of project boundary. Include waters shown on USGS 7.5 minute quad and all waters identified in Appendix A of the permit.

Name of Water Body	Type (ditch, pond, wetland, lake, etc.)	Appendix A Special or Impaired Water?
La Crosse River	River	None
Black River	River	None
Richmond Bay	Lake	None

Additional BMP's together with enhanced runoff controls are required for discharges to Special or Impaired waters within 1 mile of the site. (See Appendix A)

SOIL TYPES:

Sand  
Silty Sand  
Clayey Sand

**CONSTRUCTION ACTIVITY NOTES:**

EROSION PREVENTION:

Construction of silt fence and all other erosion control measures shall be complete before other construction activity occurs. Use phased construction wherever practical and establish turf as soon as possible to minimize sediment transport.

Turf establishment or temporary seeding or mulching of all exposed soil not being actively worked should be practiced following the table below:

Type of Slope or Disturbance Area	Time Area can Remain Open Without Being Actively Worked	
	Normal Water	WATER-TYPE
Sleeper than 3:1	14 days	7 days
10:1 to 3:1	14 days	7 days
Flatter 10:1	14 days	7 days
Ditches	1 day	1 day
Pipe Ends	1 day	1 day
Within 200 Feet of Surface Water	1 day	1 day

Temporary cover during construction is incidental.

Pipe outlets must be provided with temporary or permanent energy dissipation within 24 hours after connection to a surface water.

All exposed soils shall be seeded or sodded at the earliest possible time to prevent/reduce erosion.

A. Seeding shall be Wisdot seed mixture #40 for all seeding areas. Seeding shall be in accordance with WisDOT Specification Section 630.

B. Sodding shall be applied according to WisDOT Specification Section 631.

C. Temporary mulching shall be applied at a rate of 2 tons/acre. Mulch shall be disc anchored.

Additional erosion prevention measures may be found at the Wisconsin Department of Natural Resources Best Management Practices.

SEDIMENT CONTROL PRACTICES:

Construction of silt fence and all other erosion control measures shall be complete prior to land disturbing activities occur.

Inlet erosion protection shall be installed and maintained until turf or pavement has been established.

The contractor shall be responsible to control erosion from leaving the construction zone. All eroded material that leaves the construction zone shall be collected by the contractor and returned to the site at the contractor's expense.

Contractor shall maintain a 50-foot natural buffer or use redundant sediment controls near surface waters if a buffer is not feasible.

Contractor shall take the necessary steps to minimize soil compaction and preserve topsoil on site.

All streets must be swept within 24 hours when any tracking occurs.

Silt fence or other effective erosion control measures must be installed around the perimeter of any soil stockpiled, including temporary stockpiles, at this location or any other on the project site. Stockpiles cannot be placed in surface waters, including storm water conveyances such as curb and gutter systems, or conduits and ditches.

Perimeter control shall be installed along the back of curb immediately following curb installation at all locations with positive drainage to parking lot and/or streets, and remaining until stabilization is achieved. This shall be accomplished through the use of silt fence. (Biorolls, Rock logs, or other methods approved by the engineer prior to installation shall also be placed acceptable)

**CONSTRUCTION ACTIVITY NOTES:**

DEWATERING AND BASIN DRAINING:

Dewater sediment-laden water to sedimentation basins if possible, or use other BMP's to prevent erosion when discharging to surface waters. Use appropriate energy dissipation measures on all discharges.

Dewatering practices cannot cause nuisance conditions, erosion or in receiving channels or inundation of wetlands resulting in adverse impacts.

POLLUTION PREVENTION:

All solid waste collected from the construction site must be disposed in accordance with all applicable regulations.

All hazardous materials (oil, gasoline, fuel, paint, etc.) must be properly stored to prevent spills, leaks, or other discharge. Storage areas shall provide secondary containment and a hazardous materials spill kit. Equipment fueling and maintenance shall occur in a designated, contained area. Storage and disposal of hazardous waste must be in compliance with all applicable regulations. All runoff containing any hazardous material must be properly collected and disposed. No engine degreasing shall be allowed on site.

All sanitary wastes must be collected from portable units on site by a licensed sanitary waste management contractor. The units must be secured and shall be maintained on a regular basis as needed to prevent overflowing.

Emergency Spill Plan – The Contractor is responsible for all construction personnel to be informed of the manufacturers' recommended spill cleanup methods, and the location of that information and cleanup supplies. The Contractor shall modify the SWPPP as required within seven calendar days of knowledge of the release to: provide a description of the release, the circumstances leading to the release, and the date of the release. Plans must identify measures to prevent the reoccurrence of such releases. If a spill occurs, the following steps shall be followed:

1. Observe the safety precautions associated with the spilled material. Stop the source of the spill, if you can do so safely. Call 911 if fire or public safety hazards are created.
2. Contain the spilled material. Dirt, sand, or any semi-impermeable material may be used to create a containment structure to prevent the material from flowing.
3. Report the spill to Wisconsin's Spill Hotline at (800) 943-0003.
4. Clean up the spilled material and dispose of the wastes properly.

The contractor is responsible for monitoring air pollution and ensuring it does not exceed levels set by local, state, or federal regulations. This includes dust created by work being performed on the site. Air pollution and dust control correction is considered incidental to the unit bid prices for which work is being performed. Additional dust control measures may be required by the Engineer.

Concrete washout off site: All liquid and solid wastes generated by concrete washout must be contained and not have the opportunity to come in contact with the surface waters or ground water. This includes ditches, slopes to ditches, curb and gutter, storm sewer systems, and ponds. All excess water and concrete must leave the site within the concrete trucks. Liquid and solid wastes must be disposed of properly.

INSPECTION AND MAINTENANCE:

The Permittees must routinely inspect the construction site once every seven (7) days during active construction and within 24 hours of a rainfall event greater than 0.5 inches in a 24 hour period.

All inspections performed during construction must be recorded and records retained with the erosion plan in accordance with the Permit. Contractor is responsible for keeping a record of all rainfall data & erosion control maintenance until final establishment of turf.

Erosion control and other BMP's must be replaced, repaired, or supplemented when they reach 33% design load.

FINAL STABILIZATION:

The Contractor must ensure final stabilization of the site. The Contractor must submit a Notice of Termination when the site has undergone final stabilization and all stormwater discharges associated with the construction site activities that require to have WPDES coverage have ceased.

All temporary erosion control measures and BMP's must be removed as part of the final site stabilization.

The storm water permit further defines final stabilization and its requirements.









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Multifamily Apartments  
& Community Center**

733 Kane Street  
La Crosse, WI 54603

Owner  
Impact Seven  
2961 Decker Drive  
Rice Lake, WI 54868

PROJECT NUMBER 17-19647

ISSUED FOR:  
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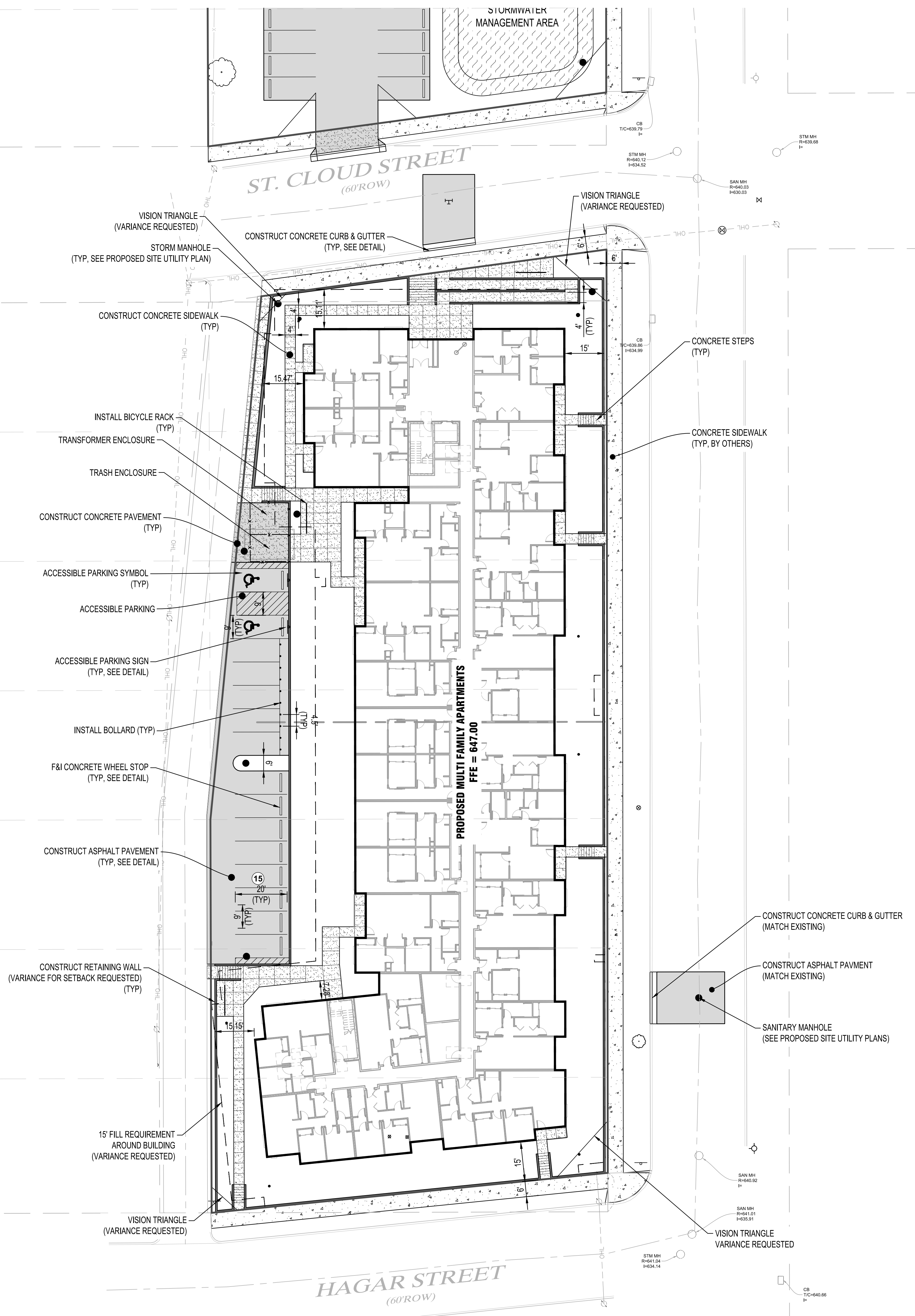
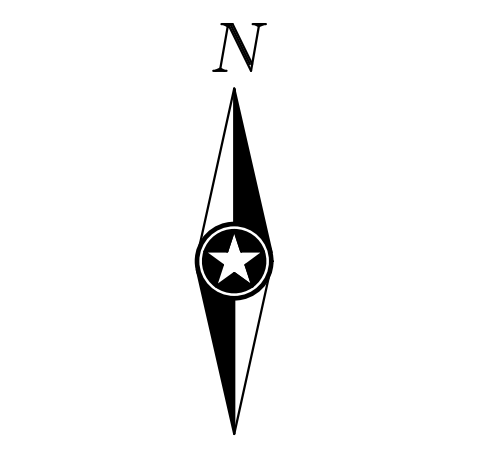
**BOZA  
PLAN SET - NOT FOR  
CONSTRUCTION**

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PROPOSED SITE PLAN -  
MULTI FAMILY  
APARTMENTS

**C3-10**

PAVEMENT LEGEND	
SYMBOL	DESCRIPTION
	ASPHALT PAVEMENT
	CONCRETE PAVEMENT
	CONCRETE SIDEWALK
	CONCRETE SIDEWALK (BY OTHERS)







**Garden Terrace -  
Multifamily Apartments  
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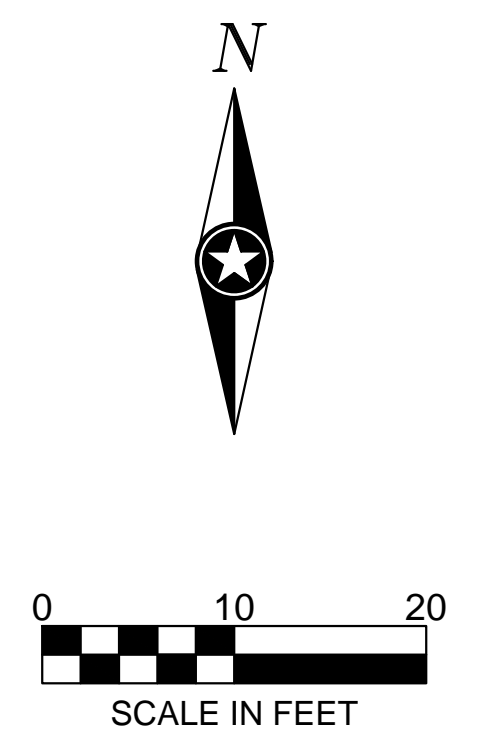
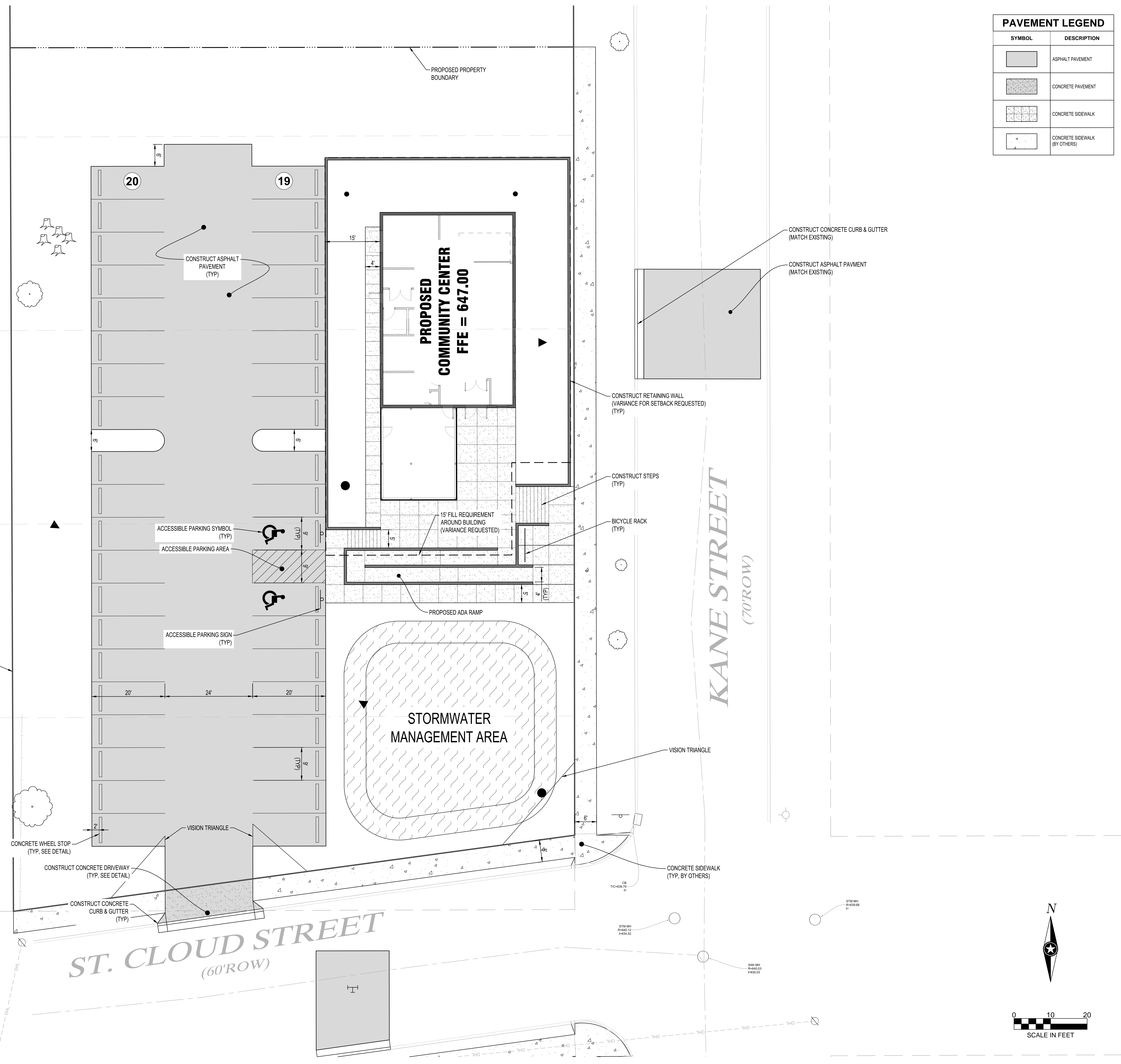
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**PROPOSED SITE PLAN -  
COMMUNITY CENTER**

**C3-11**

PAVEMENT LEGEND	
SYMBOL	DESCRIPTION
	ASPHALT PAVEMENT
	CONCRETE PAVEMENT
	CONCRETE SIDEWALK
	CONCRETE SIDEWALK (BY OTHERS)

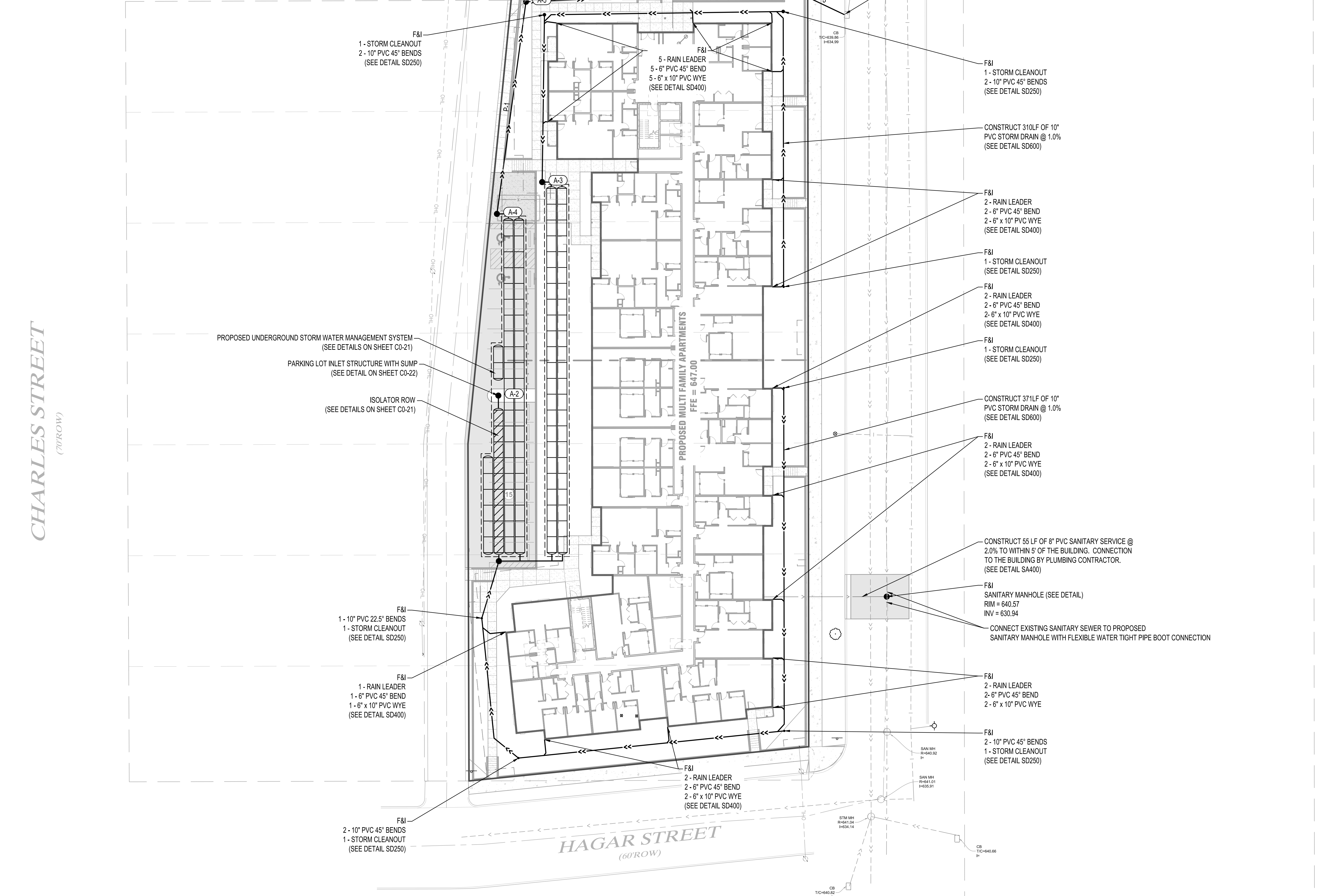




STORM DRAIN SCHEDULE								
STRUCTURE NO.	STRUCTURE TYPE	STRUCTURE SIZE (IN)	STRUCTURE MATERIAL	CASTING	PAY HEIGHT LN FT	* TOP OF CASTING ELEVATION	STRUCTURE INVERT ELEVATION	OUTLET PIPE
A-1	WISDOT TYPE 4	48.0	RC	WISDOTY TYPE J	1.92	641.22	638.00	
A-2	WISDOT TYPE 4	48.0	RC	DOME GRATE	1.92	640.57	638.00	
A-3	WISDOT TYPE 4	48.0	RC	WISDOTY TYPE J	13.96	649.96	636.00	
A-4	WISDOT TYPE 4	48.0	RC	WISDOTY TYPE J	4.75	640.75	636.00	P-1
A-5	WISDOT TYPE 4	48.0	RC	WISDOTY TYPE J	9.04	646.13	637.09	P-2
A-6	WISDOT TYPE 4	48.0	RC	WISDOTY TYPE J	10.25	646.13	635.87	P-3

\* TOP OF CASTING ELEVATIONS ON CURB STYLE CATCH BASINS = TOP BACK OF CURB BOX, NOT GUTTER ELEVATION

STORM DRAIN PIPE SCHEDULE									
PIPE NO.	DRAIN FROM	INLET ELEVATION	DRAIN TO	OUTLET ELEVATION	PIPE SIZE (IN)	MATERIAL	PIPE CLASS	PIPE GRADE	PIPE LENGTH (FT)
P-1	A-4	638.05	A-5	637.09	12	RCP	RCP	1.00%	96
P-2	A-5	637.09	A-6	635.87	12	RCP	RCP	1.00%	121
P-3	A-6	635.88	EX INL	635.63	12	RCP	RCP	1.00%	25



UTILITY LEGEND		
EXISTING		PROPOSED
--->---	STORM DRAIN	--->>---
--->---	SANITARY SEWER	--->---
---ID>---	SANITARY SEWER FORCEMAIN	---ID>---
---I---	WATER MAIN	---I---
---G---	GAS	---G---
---OE---	OVERHEAD ELECTRIC	---OE---
---UE---	UNDERGROUND ELECTRIC	---UE---
---UT---	UNDERGROUND TELEPHONE	---UT---
---UTV---	UNDERGROUND TV	---UTV---
---OHL---	OVERHEAD UTILITY	---OHL---
---UTL---	UNDERGROUND UTILITY	---UTL---
---FBO---	FIBER OPTIC	---FBO---

NOTE:  
CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES.



**Garden Terrace - Multifamily Apartments & Community Center**

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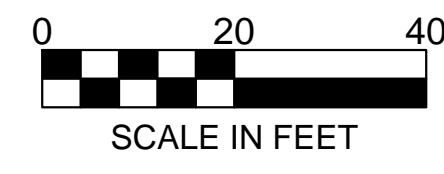
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PROPOSED SITE UTILITY PLAN - MULTI FAMILY APARTMENTS







**Garden Terrace - Multifamily Apartments & Community Center**

733 Kane Street  
La Crosse, WI 54603

Owner  
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PROPOSED SITE UTILITY PLAN - COMMUNITY CENTER

**C3-21**

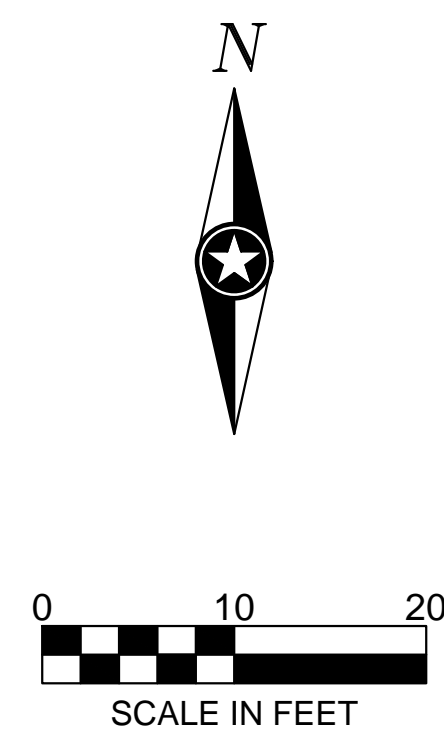
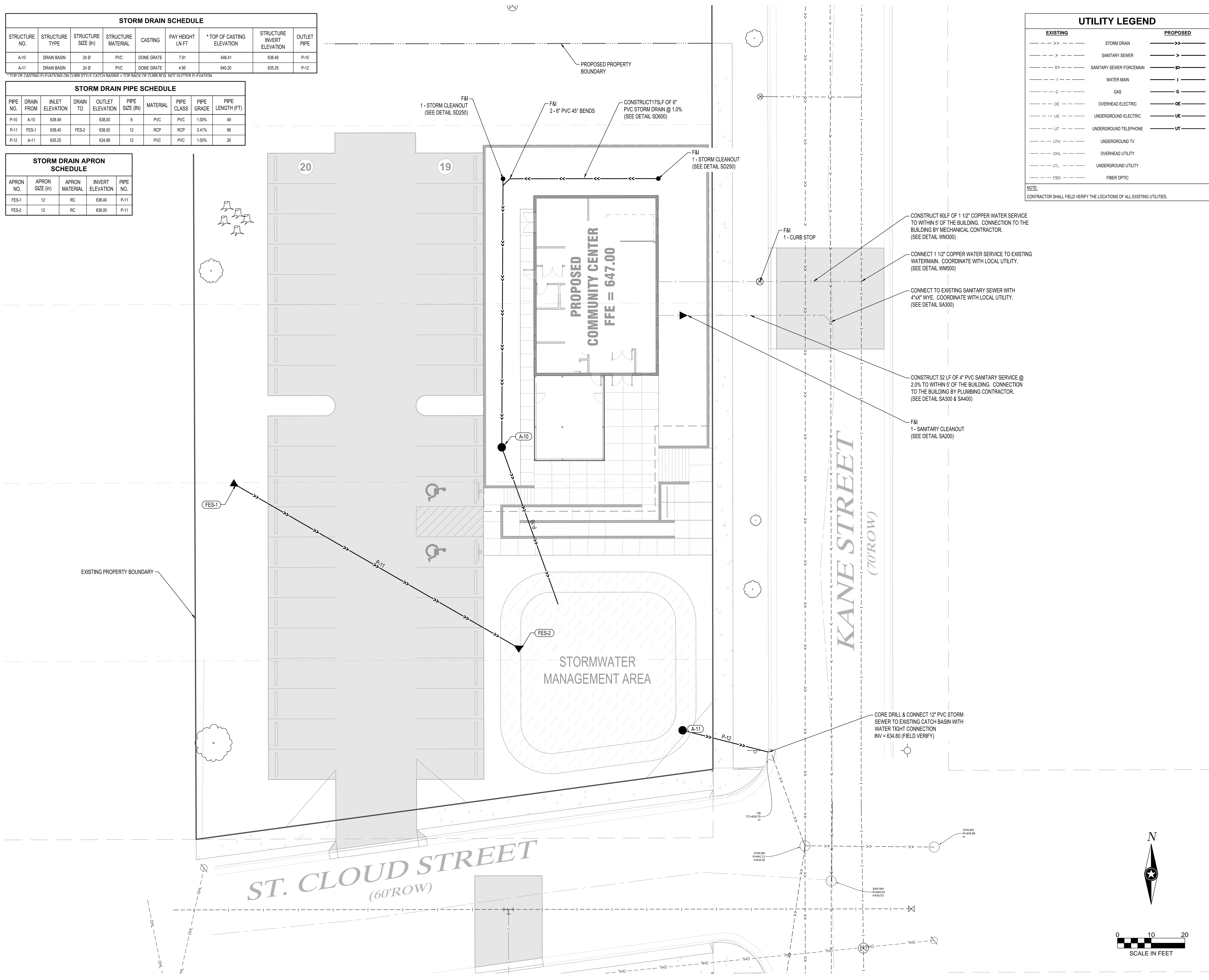
STORM DRAIN SCHEDULE								
STRUCTURE NO.	STRUCTURE TYPE	STRUCTURE SIZE (In)	STRUCTURE MATERIAL	CASTING	PAY HEIGHT LN FT	* TOP OF CASTING ELEVATION	STRUCTURE INVERT ELEVATION	OUTLET PIPE
A-10	DRAIN BASIN	24 Ø	PVC	DOME GRATE	7.91	646.41	638.49	P-10
A-11	DRAIN BASIN	24 Ø	PVC	DOME GRATE	4.95	640.20	635.25	P-12

STORM DRAIN PIPE SCHEDULE									
PIPE NO.	DRAIN FROM	INLET ELEVATION	DRAIN TO	OUTLET ELEVATION	PIPE SIZE (IN)	MATERIAL	PIPE CLASS	PIPE GRADE	PIPE LENGTH (FT)
P-10	A-10	638.49		638.00	6	PVC	PVC	1.00%	49
P-11	FES-1	638.40	FES-2	638.00	12	RCP	RCP	0.41%	98
P-12	A-11	635.25		634.99	12	PVC	PVC	1.00%	26

STORM DRAIN APRON SCHEDULE				
APRON NO.	APRON SIZE (In)	APRON MATERIAL	INVERT ELEVATION	PIPE NO.
FES-1	12	RC	638.40	P-11
FES-2	12	RC	638.00	P-11

UTILITY LEGEND		
EXISTING		PROPOSED
--->---	STORM DRAIN	--->>---
--->---	SANITARY SEWER	--->---
--- D ---	SANITARY SEWER FORCEMAIN	--- D ---
---	WATER MAIN	---
---	GAS	---
---	OVERHEAD ELECTRIC	---
---	UNDERGROUND ELECTRIC	---
---	UNDERGROUND TELEPHONE	---
---	UNDERGROUND TV	---
---	OVERHEAD UTILITY	---
---	UNDERGROUND UTILITY	---
---	FIBER OPTIC	---

NOTE:  
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**Garden Terrace -  
Multifamily Apartments  
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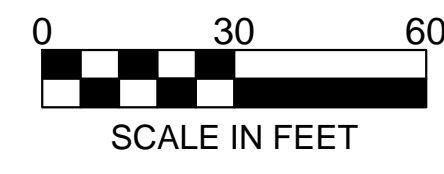
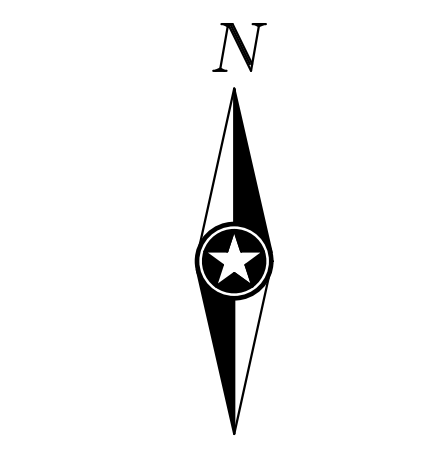
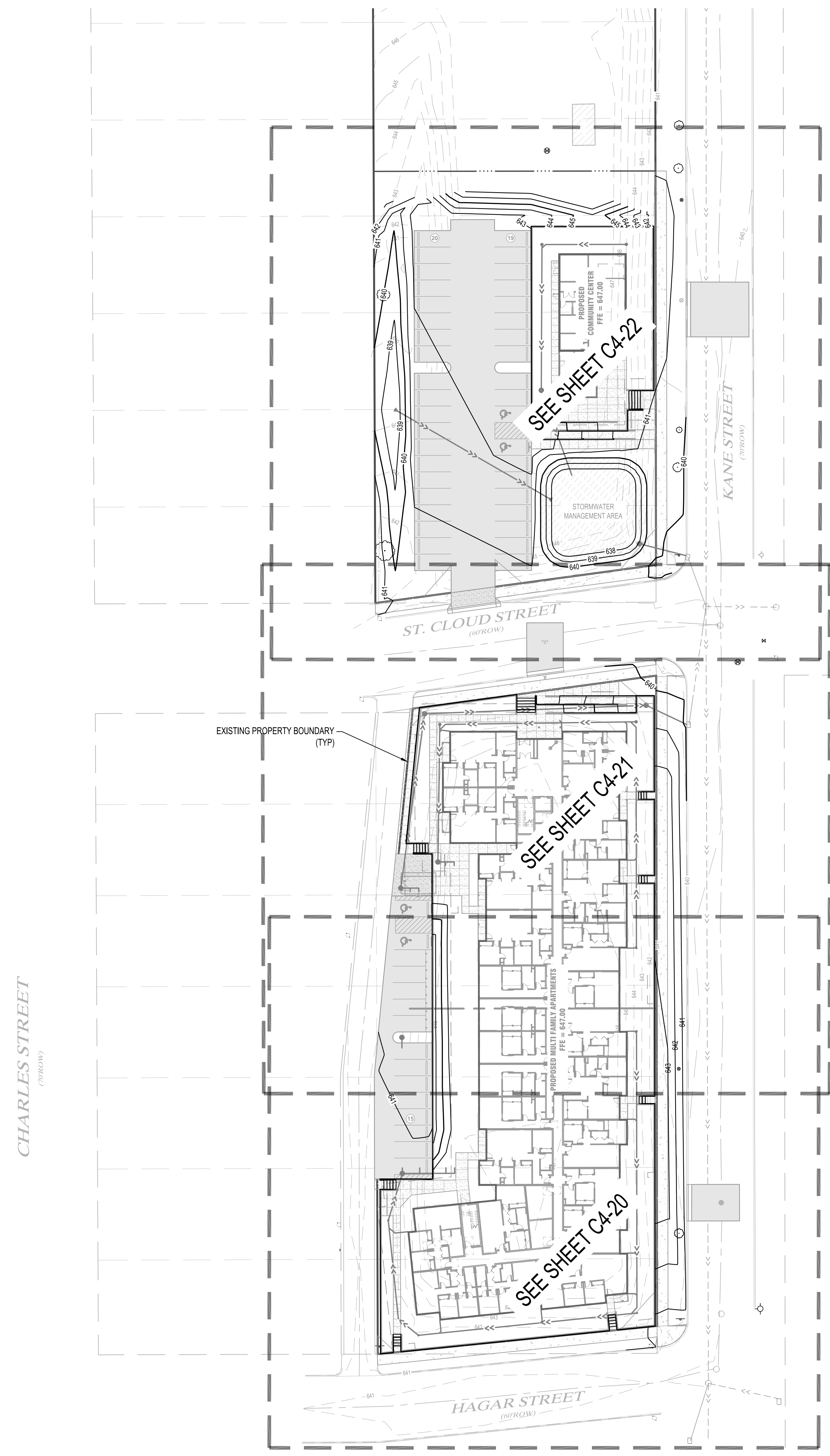
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OVERALL GRADING PLAN

GRADING LEGEND	
	EXISTING CONTOUR (MINOR INTERVAL)
	EXISTING CONTOUR (MAJOR INTERVAL)
	PROPOSED CONTOUR (MINOR INTERVAL)
	PROPOSED CONTOUR (MAJOR INTERVAL)

**GENERAL GRADING NOTES**  
EXCAVATED MATERIAL SHALL BE COMPACTED TO 100% PROCTOR DENSITY FOR THE UPPER 3' AND 95% PROCTOR DENSITY BELOW 3' IN ALL BUILDING PADS. REFER TO THE QUALITY COMPACTION METHOD IN ALL OTHER AREAS.  
PROPOSED CONTOURS SHOW FINISHED GRADE ELEVATIONS. BUILDING PAD AND PAVEMENT HOLD DOWNS ARE NOT INCLUDED.







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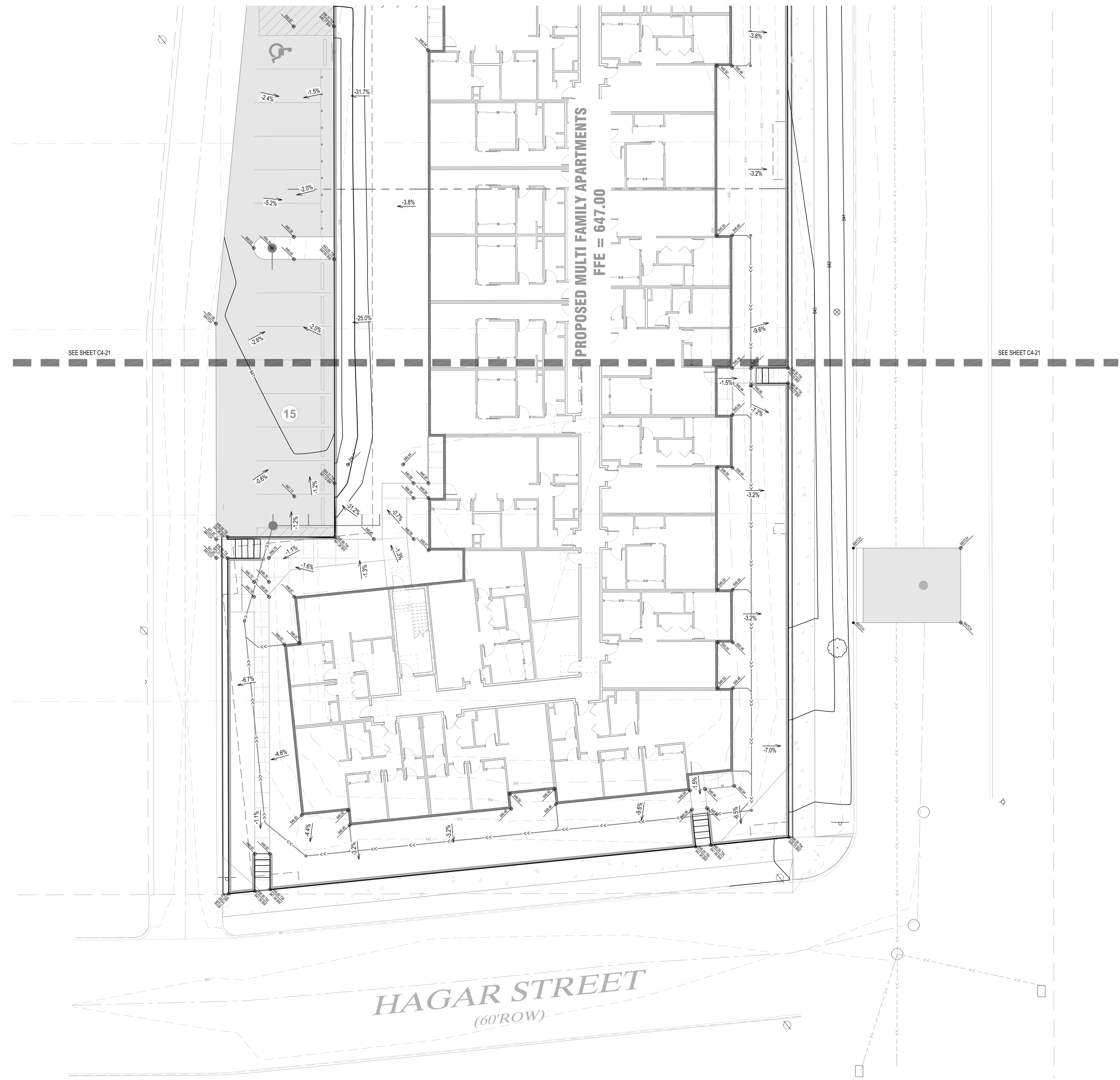
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GRADING LEGEND	
	EXISTING CONTOUR (MINOR INTERVAL)
	EXISTING CONTOUR (MAJOR INTERVAL)
	PROPOSED CONTOUR (MINOR INTERVAL)
	PROPOSED CONTOUR (MAJOR INTERVAL)
	PROPOSED SPOT ELEVATION
	PROPOSED TOP BACK OF CURB SPOT ELEVATION
	PROPOSED TOP & BOTTOM WALL ELEVATION
	SURFACE GRADE / DIRECTION

**GENERAL GRADING NOTES**

EXCAVATED MATERIAL SHALL BE COMPACTED TO 100% PROCTOR DENSITY FOR THE UPPER 3' AND 95% PROCTOR DENSITY BELOW 3' IN ALL BUILDING PADS. REFER TO THE QUALITY COMPACTON METHOD IN ALL OTHER AREAS.

PROPOSED CONTOURS SHOW FINISHED GRADE ELEVATIONS. BUILDING PAD AND PAVEMENT HOLD DOWNS ARE NOT INCLUDED.



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DETAILED GRADING PLAN -  
MULTI FAMILY  
APARTMENTS

**C4-20**





**Garden Terrace -  
Multifamily Apartments  
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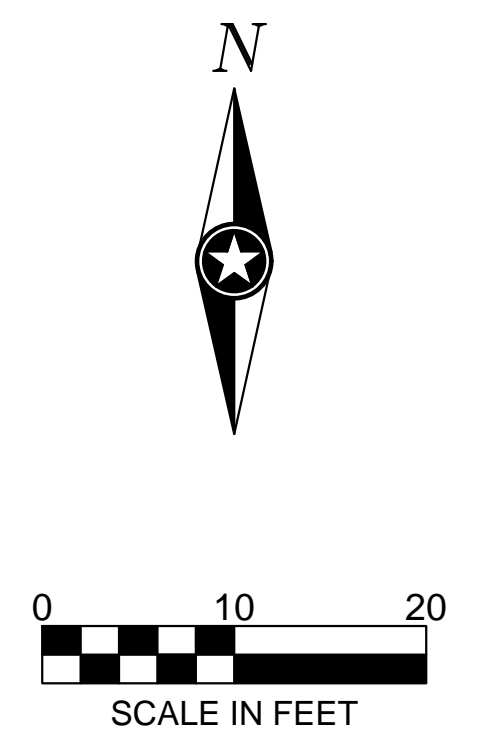
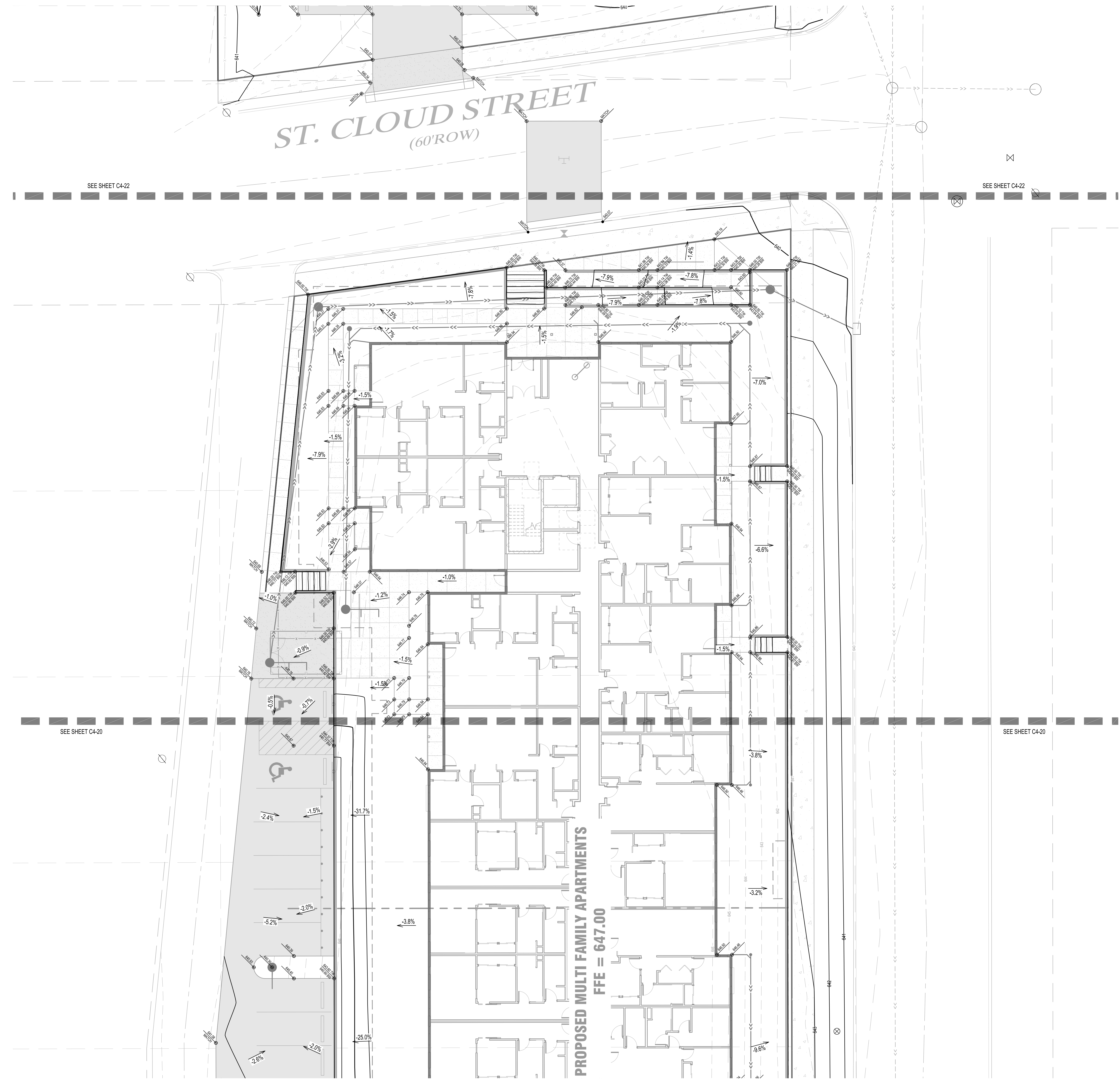
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DETAILED GRADING PLAN -  
MULTI FAMILY  
APARTMENTS

**C4-21**

GRADING LEGEND	
--- 101 ---	EXISTING CONTOUR (MINOR INTERVAL)
--- 100 ---	EXISTING CONTOUR (MAJOR INTERVAL)
--- 101 ---	PROPOSED CONTOUR (MINOR INTERVAL)
--- 100 ---	PROPOSED CONTOUR (MAJOR INTERVAL)
	PROPOSED SPOT ELEVATION
	PROPOSED TOP BACK OF CURB SPOT ELEVATION
	PROPOSED TOP & BOTTOM WALL ELEVATION
-X.X%	SURFACE GRADE / DIRECTION

**GENERAL GRADING NOTES**  
EXCAVATED MATERIAL SHALL BE COMPACTED TO 100% PROCTOR DENSITY FOR THE UPPER 3" AND 95% PROCTOR DENSITY BELOW 3" IN ALL BUILDING PADS. REFER TO THE QUALITY COMPACTION METHOD IN ALL OTHER AREAS.  
PROPOSED CONTOURS SHOW FINISHED GRADE ELEVATIONS. BUILDING PAD AND PAVEMENT HOLD DOWNS ARE NOT INCLUDED.







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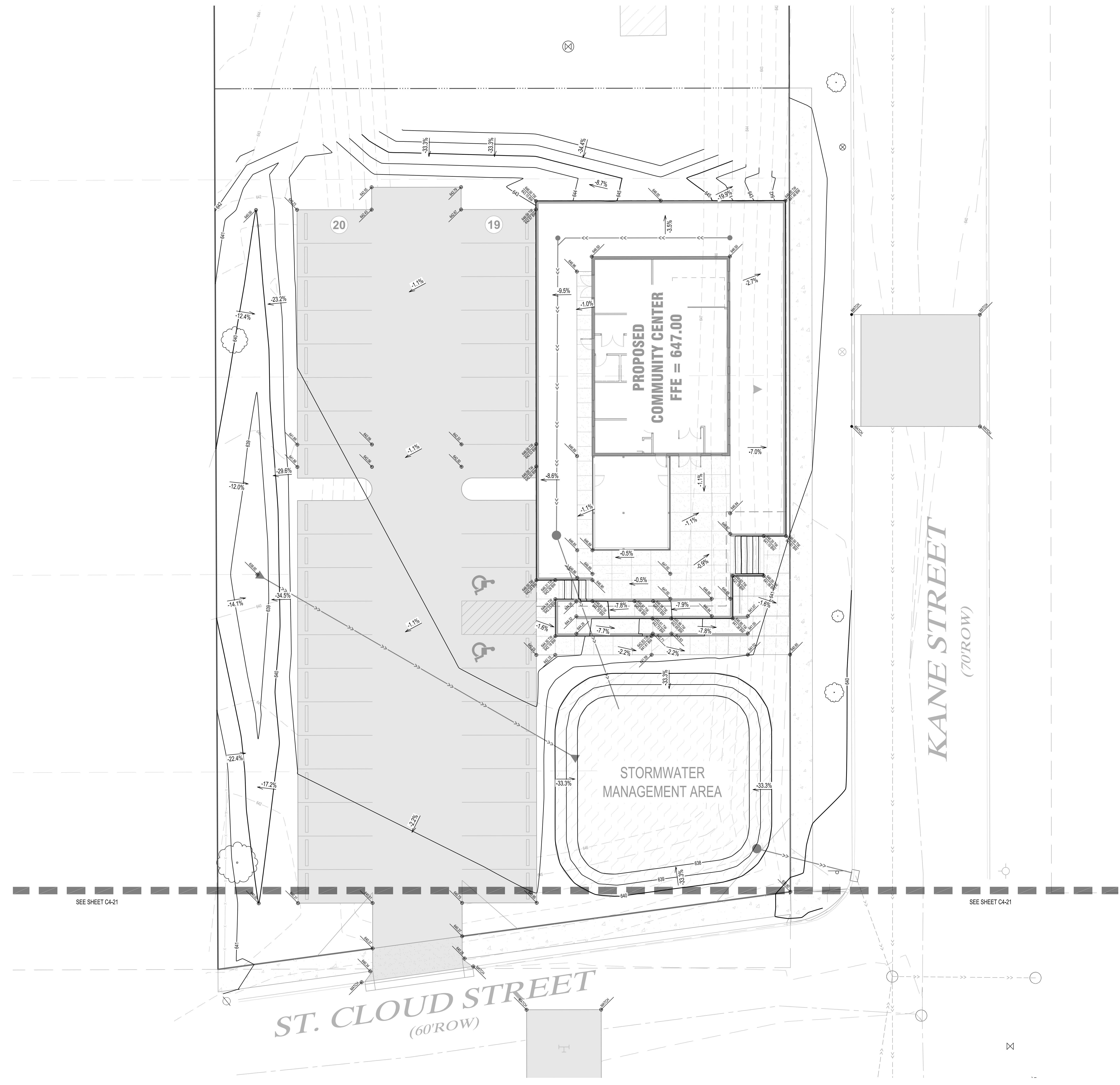
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GRADING LEGEND	
--- 101 ---	EXISTING CONTOUR (MINOR INTERVAL)
--- 100 ---	EXISTING CONTOUR (MAJOR INTERVAL)
--- 101 ---	PROPOSED CONTOUR (MINOR INTERVAL)
--- 100 ---	PROPOSED CONTOUR (MAJOR INTERVAL)
● 63.2	PROPOSED SPOT ELEVATION
● 63.2	PROPOSED TOP BACK OF CURB SPOT ELEVATION
● 63.2 / 62.8	PROPOSED TOP & BOTTOM WALL ELEVATION
-X.X%	SURFACE GRADE / DIRECTION

**GENERAL GRADING NOTES**

EXCAVATED MATERIAL SHALL BE COMPACTED TO 100% PROCTOR DENSITY FOR THE UPPER 3" AND 95% PROCTOR DENSITY BELOW 3" IN ALL BUILDING PADS. REFER TO THE QUALITY COMPACTION METHOD IN ALL OTHER AREAS.

PROPOSED CONTOURS SHOW FINISHED GRADE ELEVATIONS. BUILDING PAD AND PAVEMENT HOLD DOWNS ARE NOT INCLUDED.



ISSUED FOR:  
BOZA PLAN SET 5-23-2018

REVISION FOR:	DATE
NO. DESCRIPTION	

**BOZA PLAN SET - NOT FOR CONSTRUCTION**

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CHECKED BY KBR

DETAILED GRADING PLAN - COMMUNITY CENTER



**Garden Terrace -  
Multifamily Apartments**

733 Kane Street  
La Crosse, WI 54603  
Impact La Crosse, LLC  
Impact Seven  
2961 Decker Drive  
Rice Lake, WI 54868

PROJECT NUMBER 162624



VICINITY PLAN



SITE PHOTOS

ISSUED FOR: BOZA PLAN SET 05-23-2018

REVISION FOR: NO. DESCRIPTION DATE

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**OVERALL  
ARCHITECTURAL  
SITE PLAN**

**A002**



1 OVERALL SITE PLAN  
SCALE: 1" = 30'-0"



PLAN NORTH



**Garden Terrace -  
Multifamily Apartments**

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La Crosse, WI 54603  
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PROJECT NUMBER 162624

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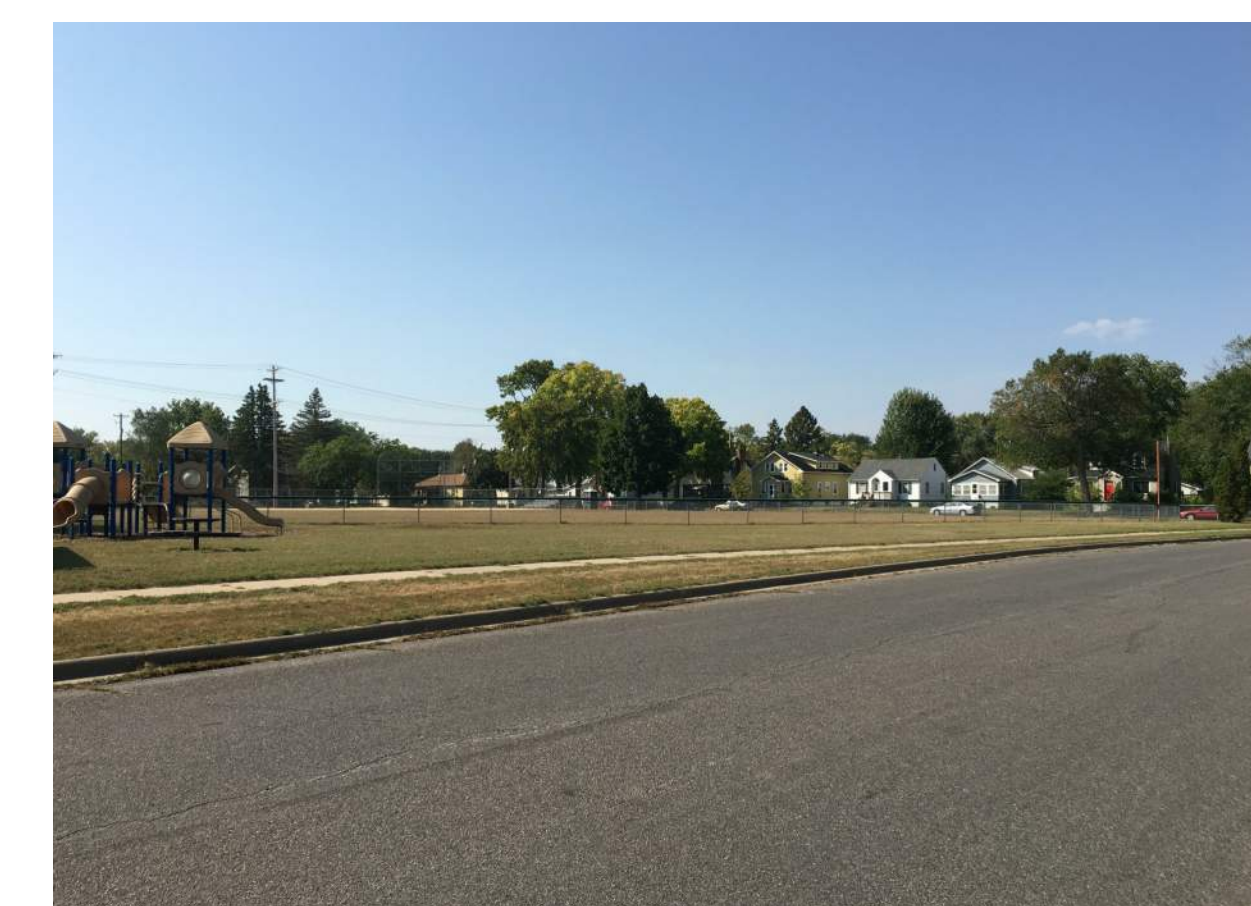
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**MULTIFAMILY  
APARTMENTS - SITE  
PLAN**

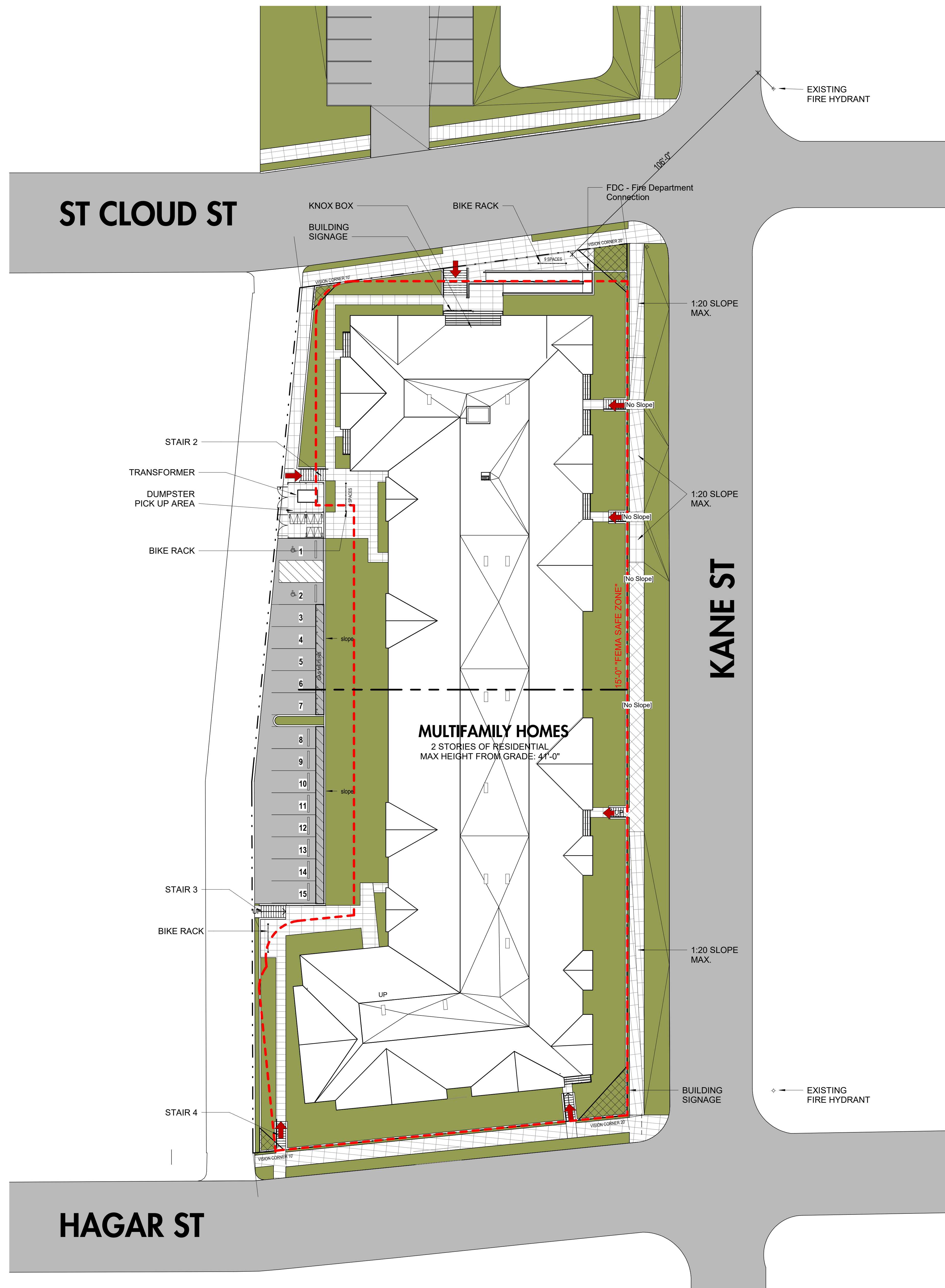
**A003**



VICINITY PLAN



SITE PHOTOS



**1** ARCHITECTURAL SITE PLAN  
SCALE: 1" = 20'-0"

**← BUILDING ENTRY/ACCESS**  
**< VEHICLE ACCESS**



**Garden Terrace -  
Multifamily Apartments**

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La Crosse, WI 54603  
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**MULTIFAMILY  
APARTMENTS -  
BUILDING SIGNAGE**

**A004**



**4 BUILDING SIGNAGE AT NORTH ELEVATION**  
SCALE: 1/4" = 1'-0"



**MULTIFAMILY APARTMENTS - SIGNAGE AT NORTH ELEVATION**



**3 BUILDING SIGNAGE AT SOUTHEAST ELEVATION**  
SCALE: 1/4" = 1'-0"



**MULTIFAMILY APARTMENTS - SIGNAGE AT SOUTHEAST CORNER**



**Garden Terrace -  
Community Center**

800 Kane Street  
La Crosse, WI  
Impact La Crosse, LLC  
Impact Seven  
2961 Decker Drive  
Rice Lake, WI 54868

PROJECT NUMBER 162624.00

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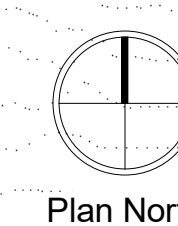
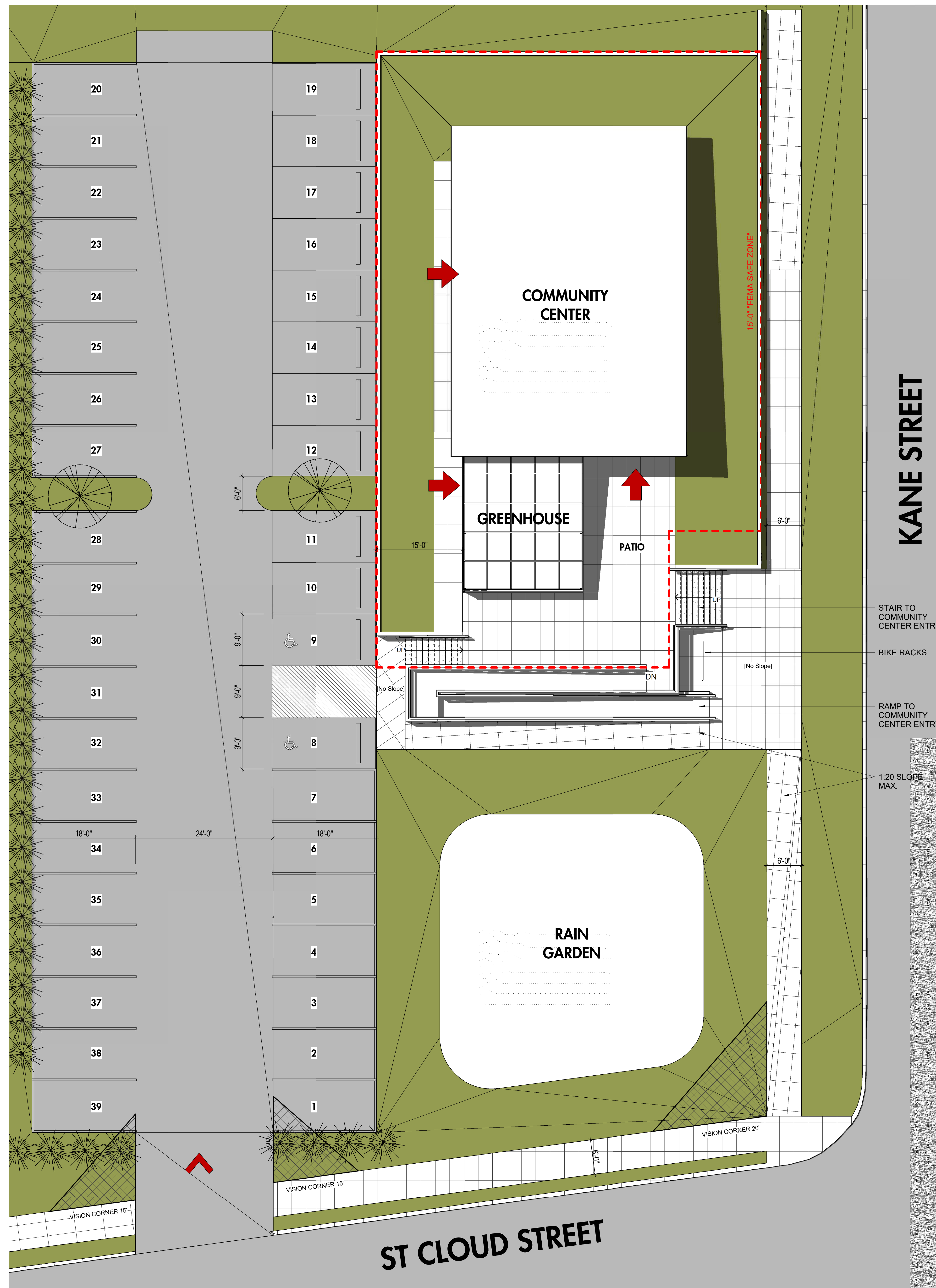


SITE PHOTOS

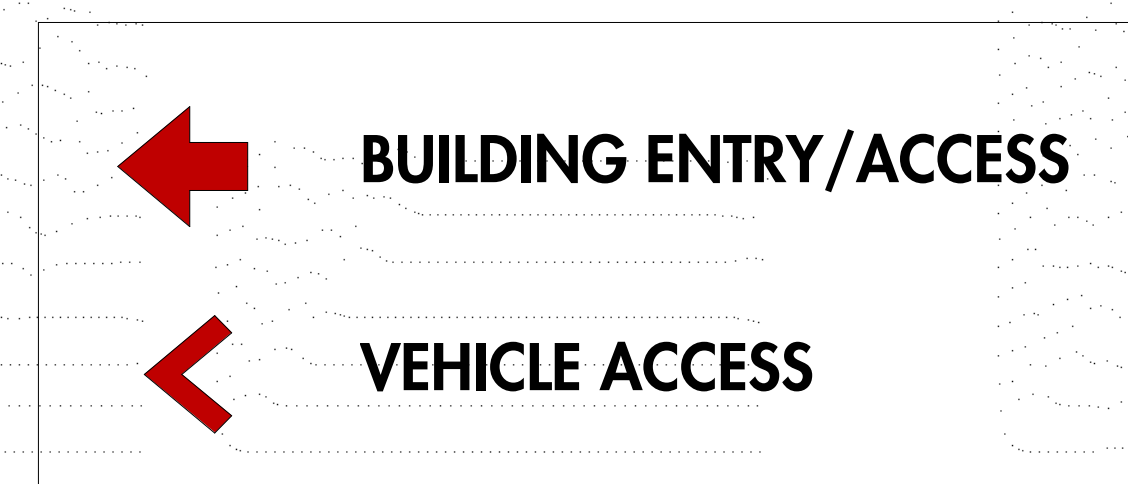
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**COMMUNITY  
CENTER -  
ARCHITECTURAL  
SITE PLAN**



Plan North





**Garden Terrace -  
Community Center**

800 Kane Street  
La Crosse, WI  
Impact La Crosse, LLC  
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2961 Decker Drive  
Rice Lake, WI 54868

PROJECT NUMBER 162624.00

ISSUED FOR:  
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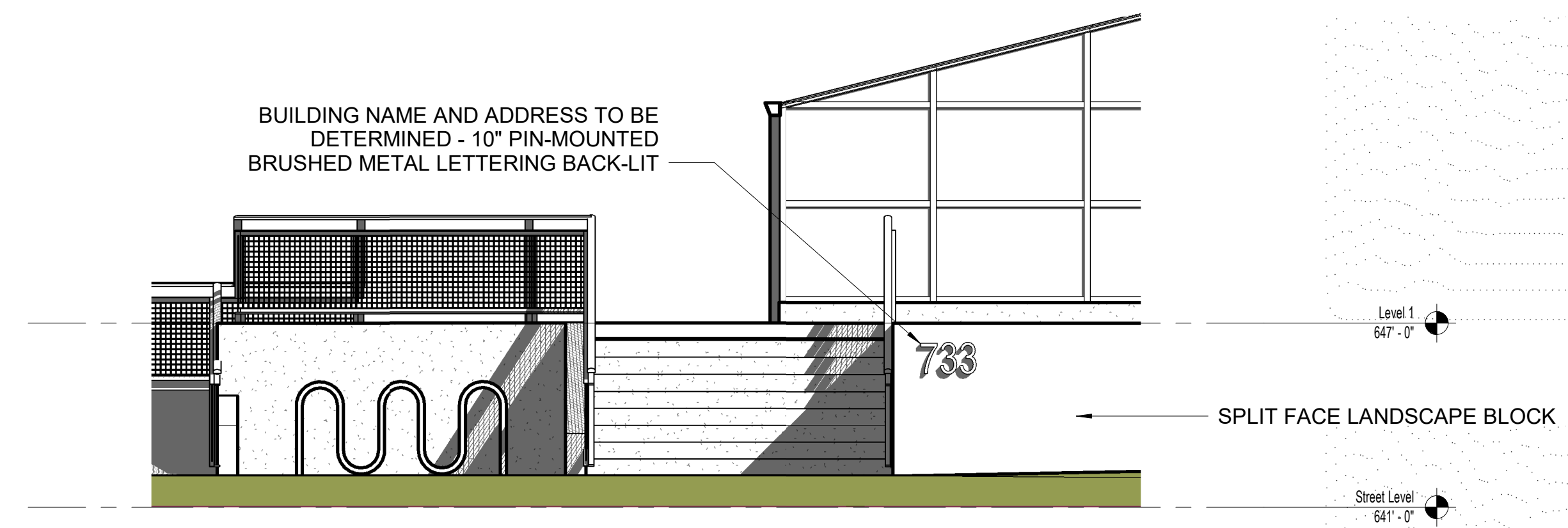
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**COMMUNITY  
CENTER - BUILDING  
SIGNAGE**

**A006**



**3 BUILDING SIGNAGE @ EAST ELEVATION**  
SCALE: 1/4" = 1'-0"



**2 BUILDING SIGNAGE @ SOUTH ELEVATION**  
SCALE: 1/4" = 1'-0"



**1 COMMUNITY CENTER - SIGNAGE AT MAIN ENTRY**  
SCALE:



**Garden Terrace -  
Multifamily Apartments**

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Rice Lake, WI 54868

PROJECT NUMBER 162624

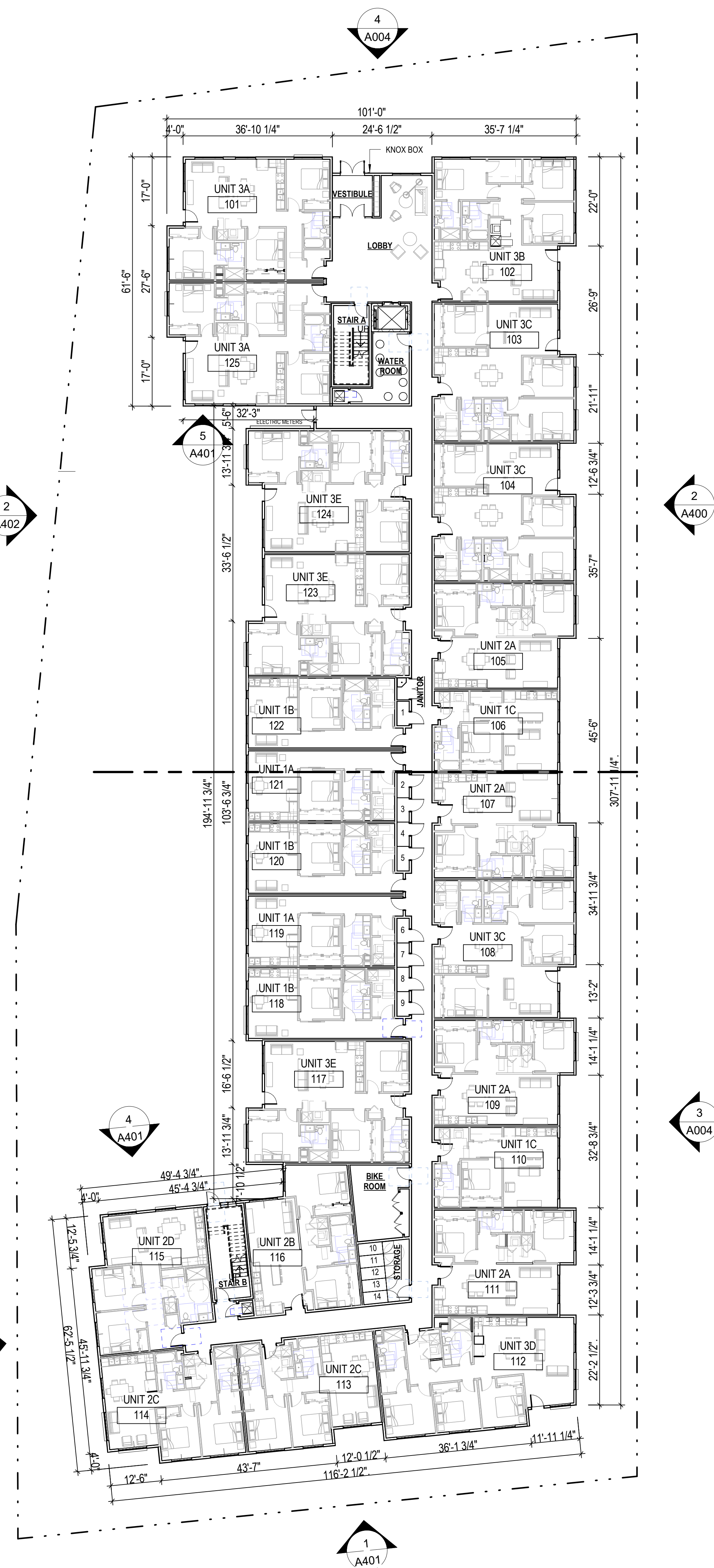
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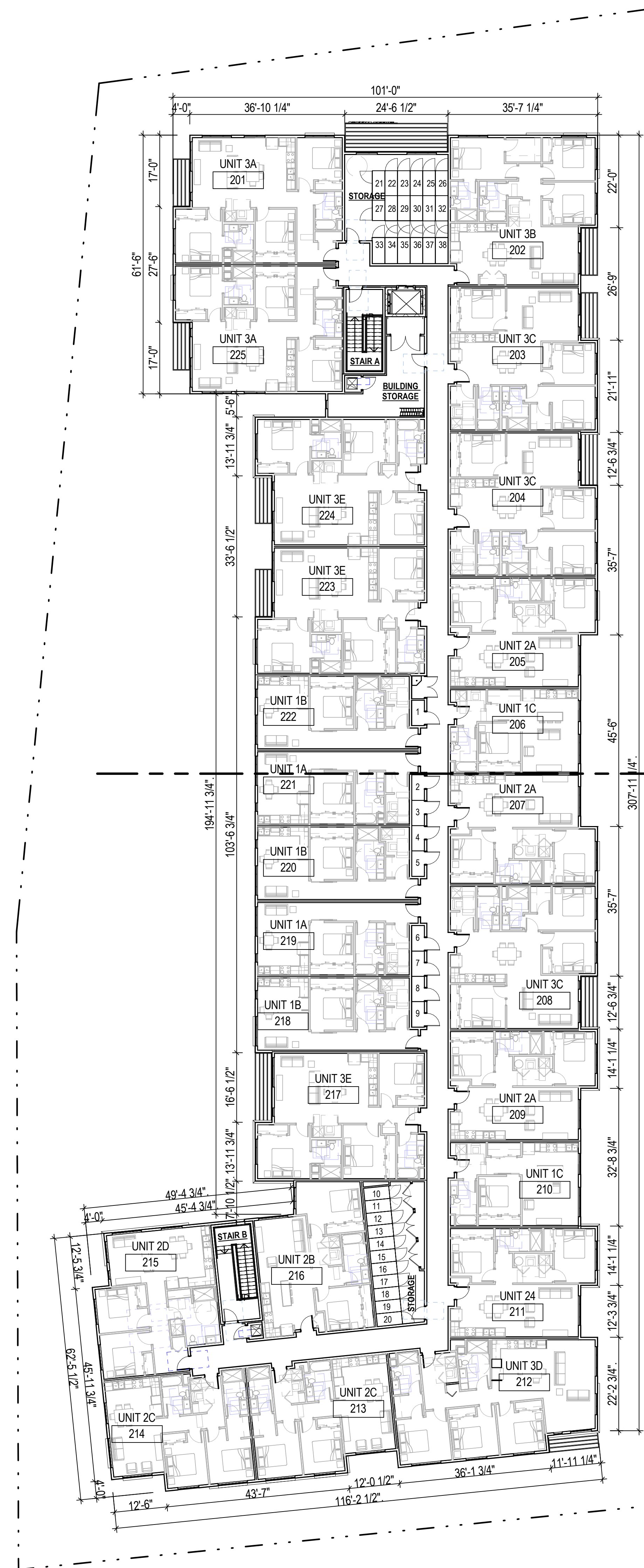
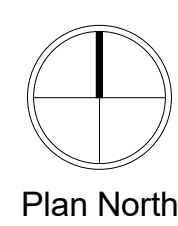
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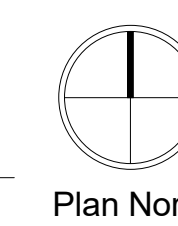
**MULTIFAMILY  
APARTMENTS -  
OVERALL FLOOR  
PLANS**



**1 LEVEL 1 OVERALL PLAN**  
SCALE: 1/16" = 1'-0"



**2 LEVEL 2 OVERALL PLAN**  
SCALE: 1/16" = 1'-0"







**Garden Terrace -  
Multifamily Apartments**

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PROJECT NUMBER 162624

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SPLIT FACE LANDSCAPE BLOCK



1 OVERALL EAST ELEVATION  
NOT TO SCALE



2 EAST ELEVATION NORTH  
SCALE: 1/8" = 1'-0"

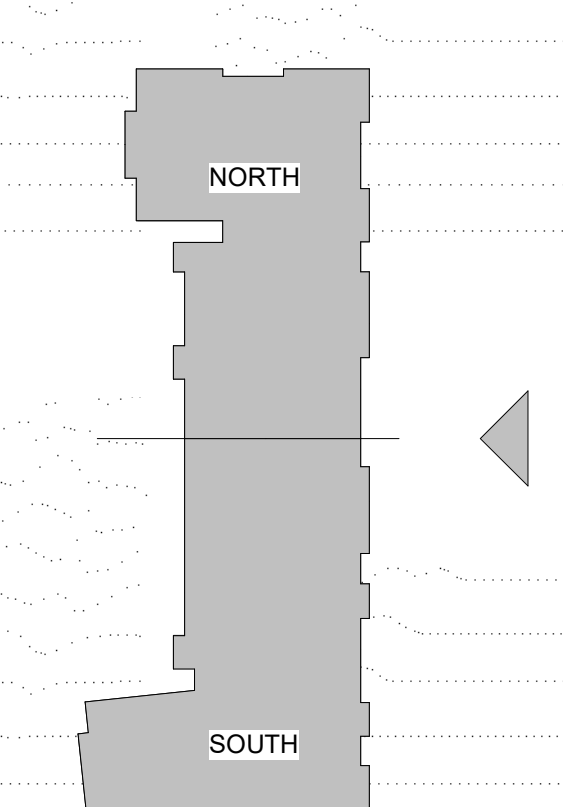


3 EAST ELEVATION SOUTH  
SCALE: 1/8" = 1'-0"

BOZA PLAN SET - NOT FOR CONSTRUCTION

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CHECKED BY Checker

MULTIFAMILY APARTMENTS - BUILDING ELEVATIONS



**A400**



**Garden Terrace -  
Multifamily Apartments**

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La Crosse, WI 54603  
Impact La Crosse, LLC  
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2961 Decker Drive  
Rice Lake, WI 54868

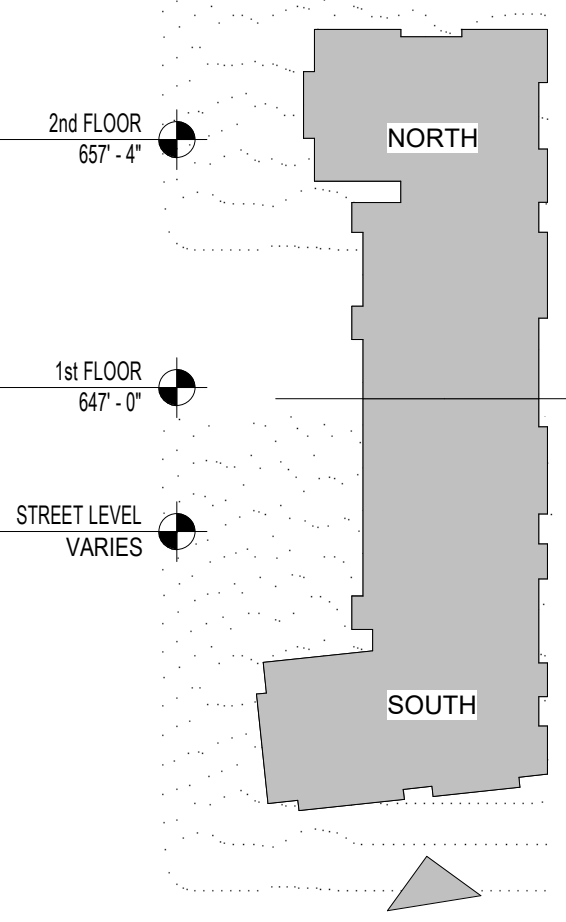
PROJECT NUMBER 162624

ISSUED FOR:  
BOZA PLAN SET 05-23-2018

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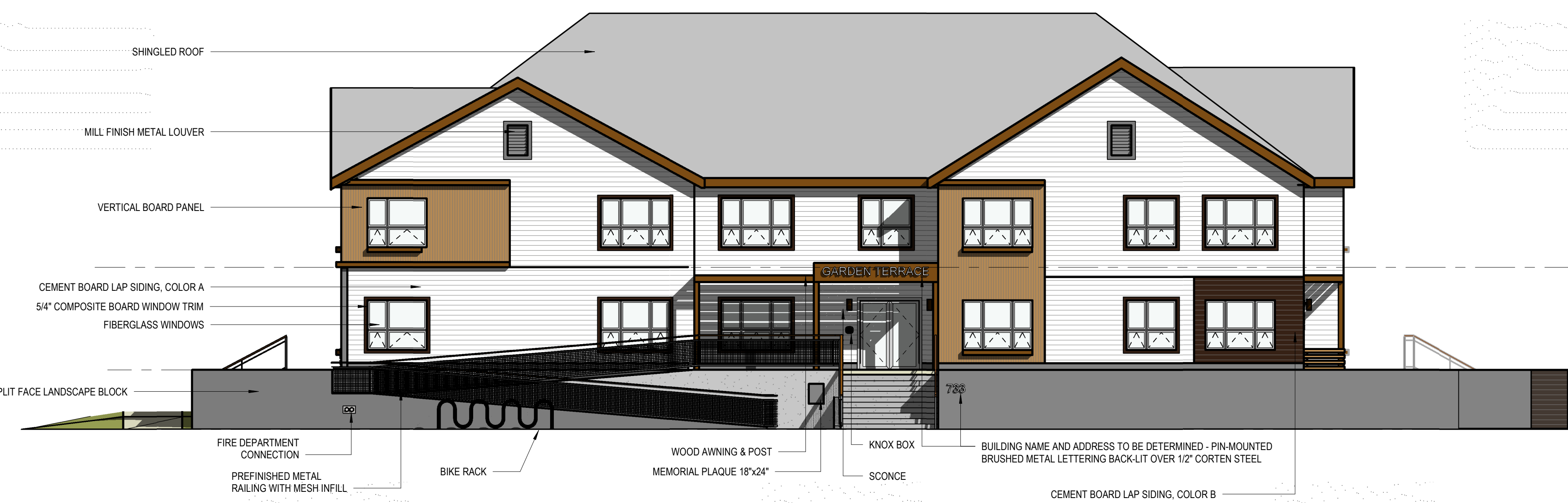
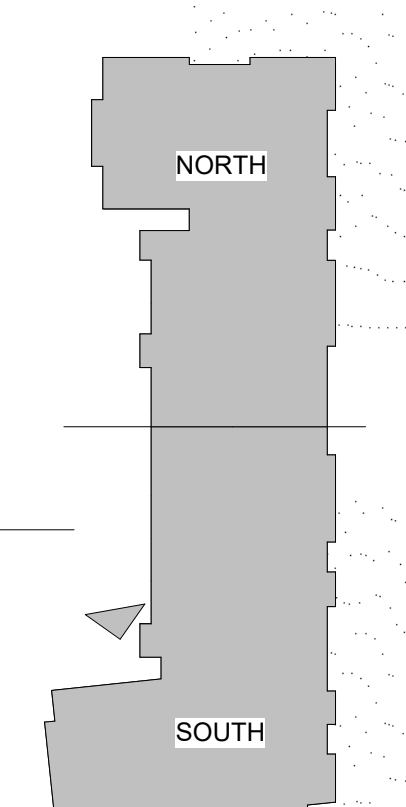
**1 SOUTH ELEVATION**  
SCALE: 1/8" = 1'-0"



**2 SOUTHWEST ELEVATION**  
SCALE: 1/8" = 1'-0"



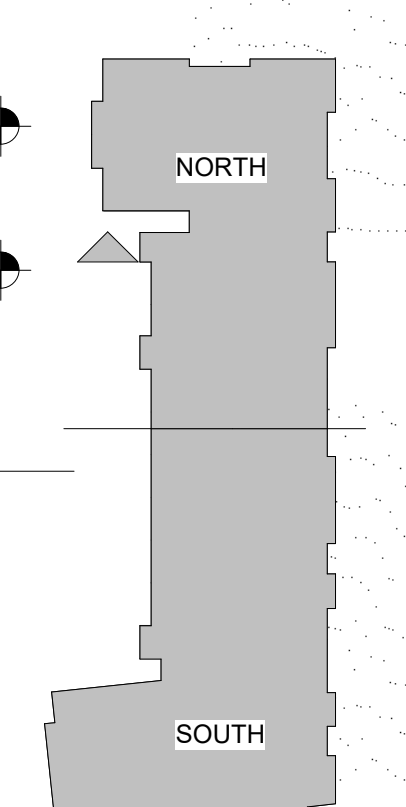
**4 INTERIOR SOUTH ELEVATION**  
SCALE: 1/8" = 1'-0"



**3 NORTH ELEVATION**  
SCALE: 1/8" = 1'-0"



**5 INTERIOR NORTH ELEVATION**  
SCALE: 1/8" = 1'-0"



**BOZA PLAN SET - NOT  
FOR CONSTRUCTION**

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**MULTIFAMILY  
APARTMENTS -  
BUILDING  
ELEVATIONS**





**Garden Terrace -  
Multifamily Apartments**

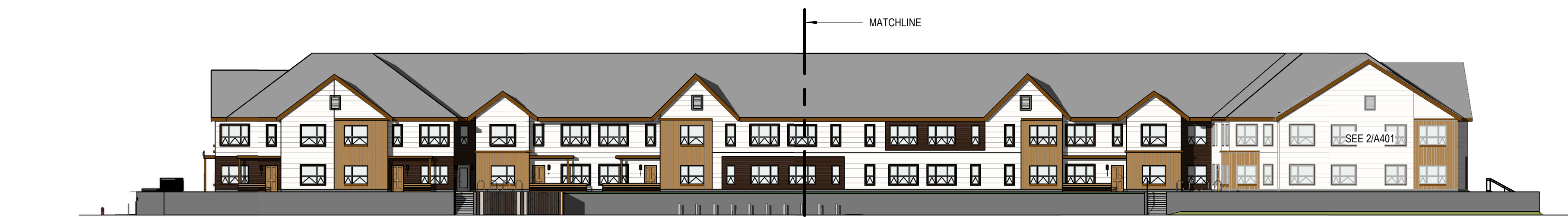
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PROJECT NUMBER 162624

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SPLIT FACE LANDSCAPE BLOCK



**1** OVERALL WEST ELEVATION  
NOT TO SCALE



**2** WEST ELEVATION NORTH  
SCALE: 1/8" = 1'-0"



**3** WEST ELEVATION SOUTH  
SCALE: 1/8" = 1'-0"

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**MULTIFAMILY  
APARTMENTS -  
BUILDING  
ELEVATIONS**



**Garden Terrace -  
Community Center**

800 Kane Street  
La Crosse, WI  
Impact La Crosse, LLC  
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Rice Lake, WI 54868

PROJECT NUMBER 162624.00

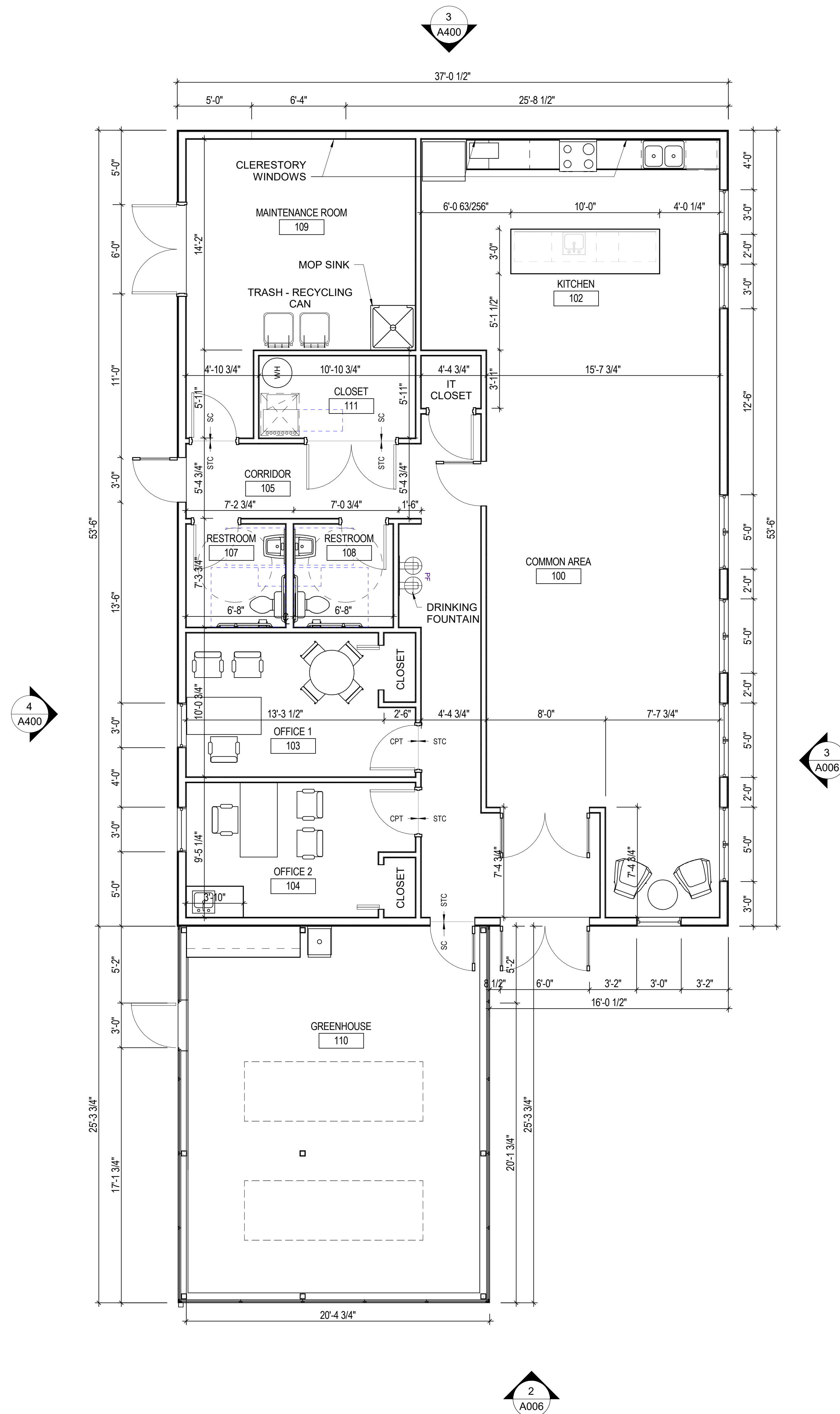
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**COMMUNITY  
CENTER - FIRST  
FLOOR PLAN**



**1 LEVEL 1 PLAN**  
SCALE: 1/4" = 1'-0"



**A100**



**Garden Terrace -  
Community Center**

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**COMMUNITY  
CENTER - BUILDING  
ELEVATIONS**

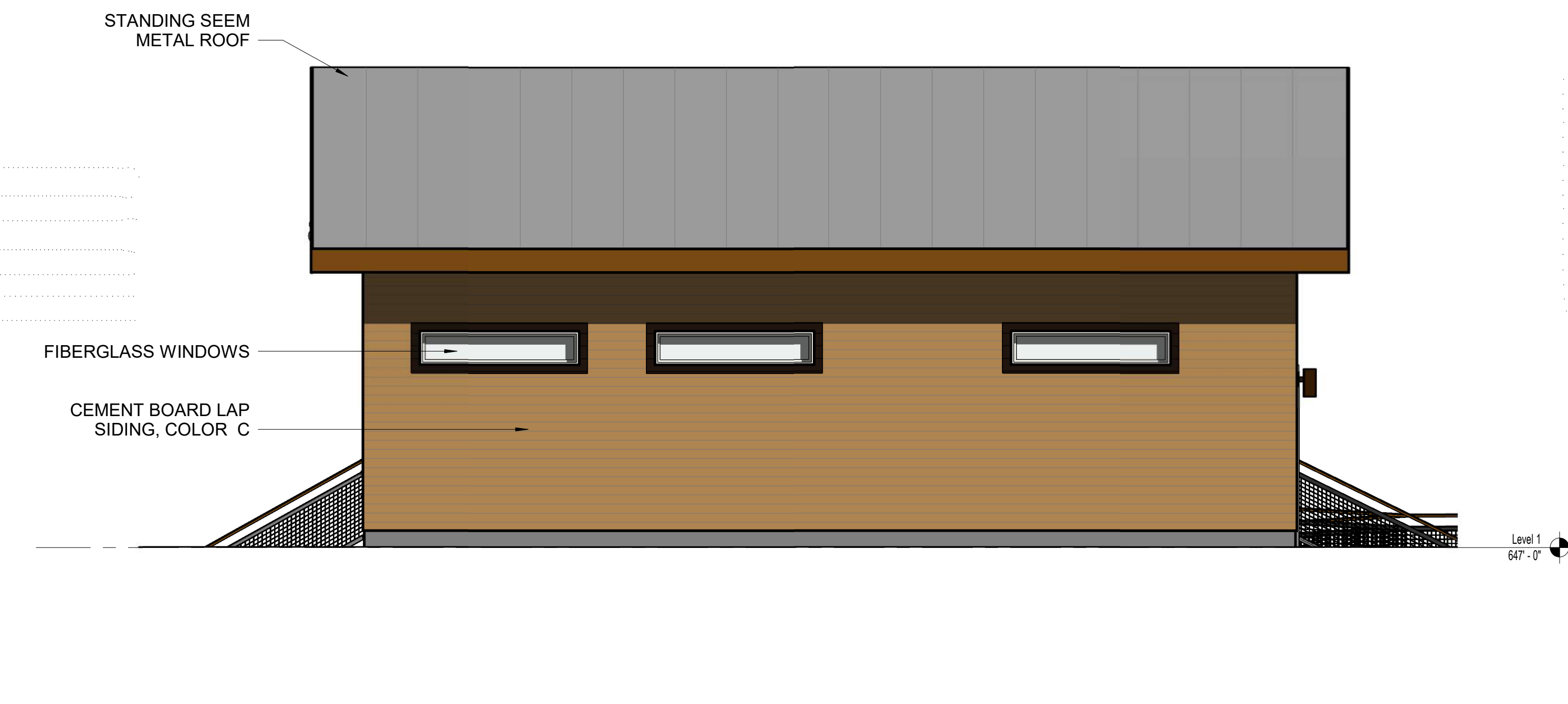


**SPLIT FACE  
LANDSCAPE BLOCK**

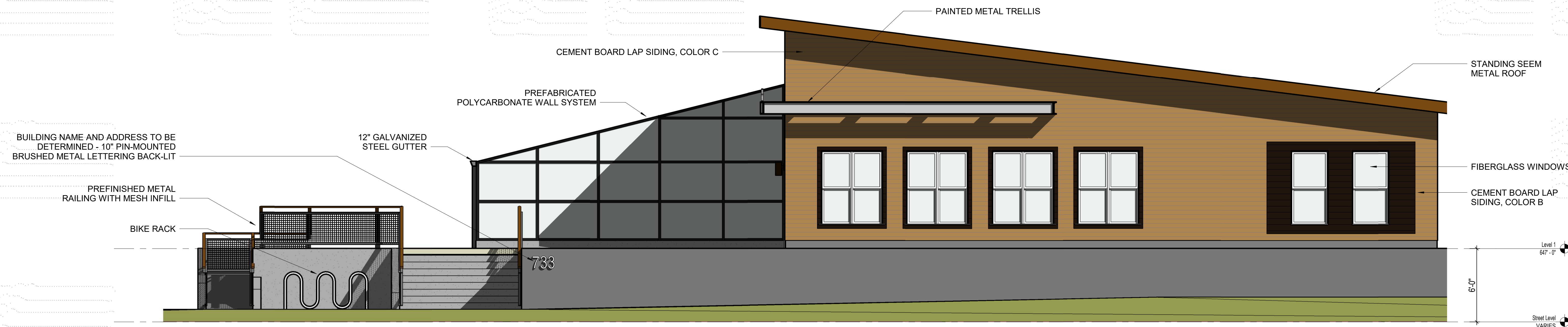
**A400**



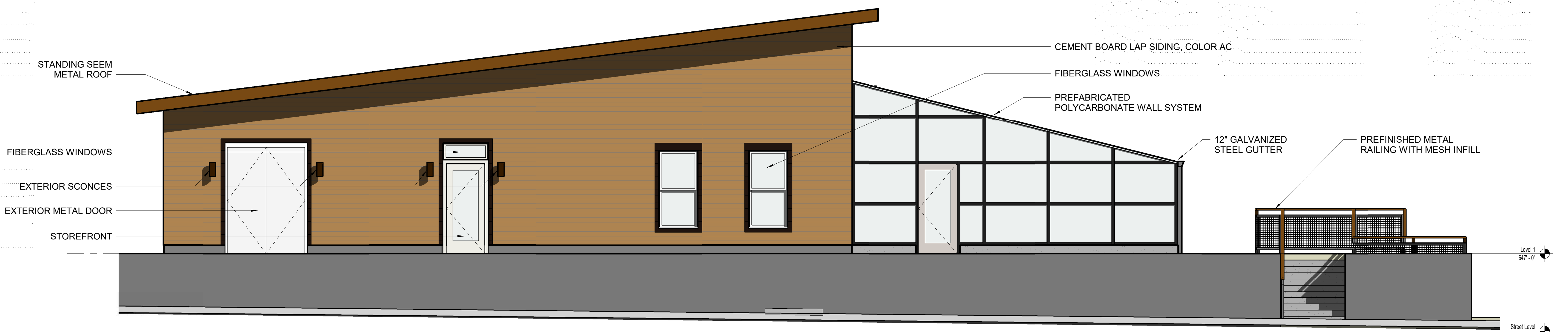
**1 SOUTH ELEVATION**  
SCALE: 1/4" = 1'-0"



**3 NORTH ELEVATION**  
SCALE: 1/4" = 1'-0"



**2 EAST ELEVATION**  
SCALE: 1/4" = 1'-0"



**4 WEST ELEVATION**  
SCALE: 1/4" = 1'-0"