

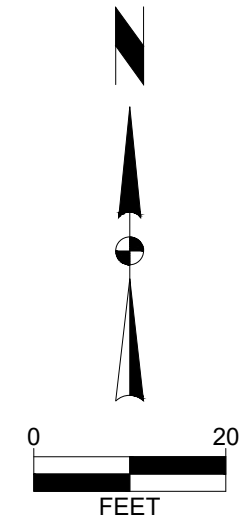






BENCHMARK TABLE				
NUMBER	NORTHING	EASTING	ELEV.	DESCRIPTION
BENCHMARK 1	481570.9110	802867.1820	897.99	PK NAIL IN SIDEWALK
BENCHMARK 2	481568.7190	802681.5230	902.26	TOP NUT OF HYDRANT
BENCHMARK 3	481637.0150	8022443.2430	908.88	PK NAIL IN SIDEWALK

- SITE PLAN KEYNOTES**
- EXISTING CONCRETE AND ASPHALT PAVEMENT TO BE REMOVED
  - EXISTING VEGETATION TO INCLUDE TREES AND SHRUBS TO BE REMOVED
  - EXISTING MISC. SITE AMENITIES TO BE REMOVED (BOLLARDS, LIGHT POLES, SIGNS, BIKE RACKS, ETC.)
  - SAW CUT EXISTING PAVEMENT FOR A CLEAN MATCH LINE
  - EXISTING CONCRETE RETAINING WALL TO REMAIN
  - REMOVE EXISTING SIDEWALK
  - REMOVE EXISTING CURB RETURNS
  - UTILITY BOXES TO BE RELOCATED
  - EXISTING CURB AND GUTTER TO BE REPLACED IN KIND
  - NOT USED
  - REMOVE EXISTING CONCRETE CURB
  - EXISTING STORM SEWER STRUCTURE TO BE REMOVED
  - EXISTING STORM SEWER PIPE TO BE REMOVED
  - NOT USED
  - EXISTING PAVEMENT MARKINGS TO BE REMOVED
  - NOT USED
  - EXISTING SANITARY SEWER STRUCTURE TO BE REMOVED
  - EXISTING SANITARY SEWER PIPE TO BE REMOVED





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**WSDEVELOPMENT**

33 BOYLSTON ST. STE 3000  
CHESTNUT HILL, MA 02467  
P 617.232.8900



**SNYDER & ASSOCIATES**

5010 VOGES ROAD  
MADISON, WISCONSIN 53718  
608-838-0444

PROJECT INFORMATION

**HILLDALE SHOPPING CENTER**

**HILLDALE**

702 N Midvale Blvd  
Madison, WI 53705

#	DATE	DESCRIPTION
1	8-01-2025	CITY SUBMITTAL

KEY PLAN

SHEET INFORMATION

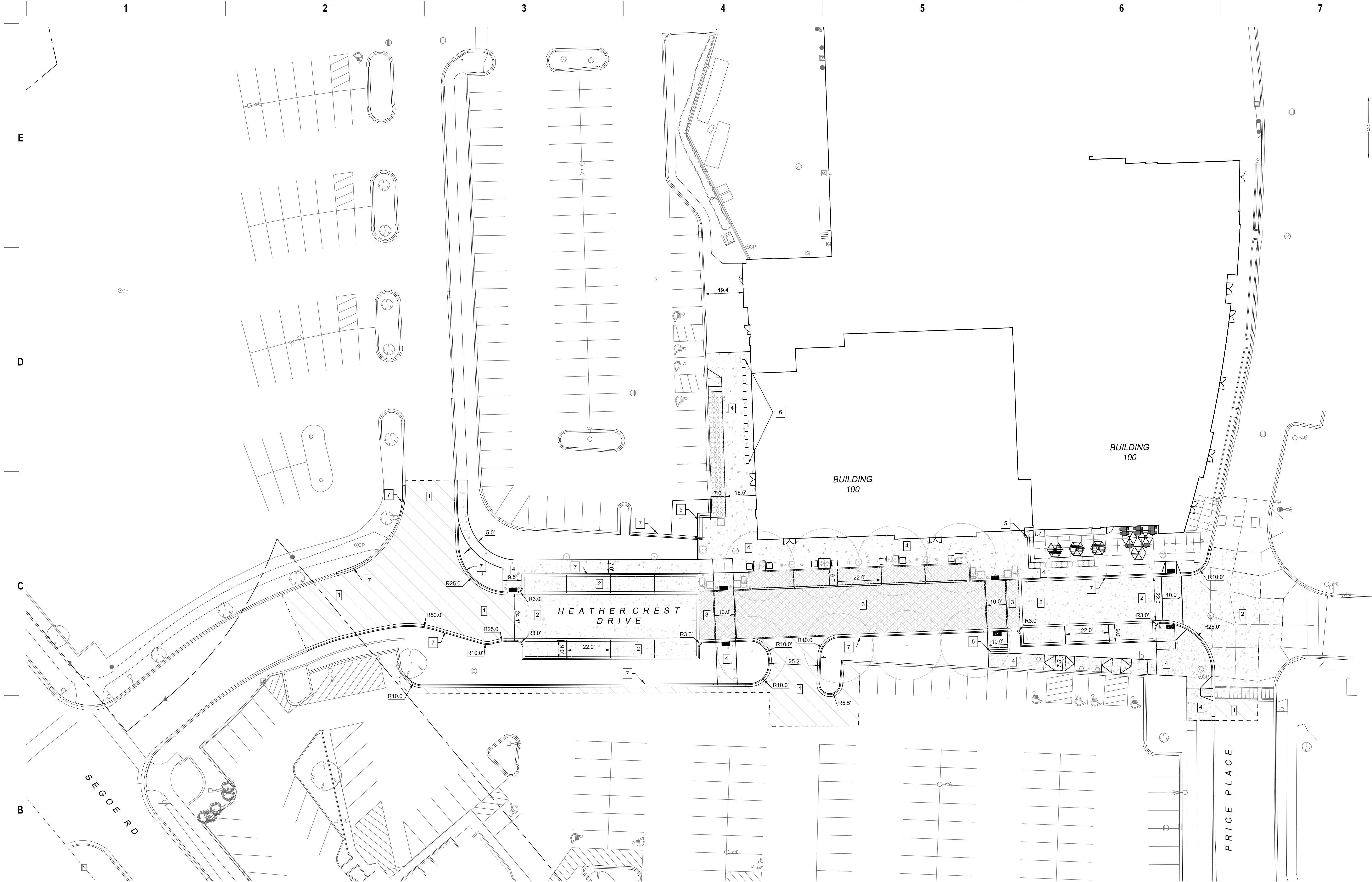
PROJECT MANAGER SJA  
PROJECT NUMBER 125.0640.30

EXISTING SITE & DEMOLITION PLAN

**C 101**

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PROJECT INFORMATION

HILLDALE SHOPPING  
CENTER

HILLDALE

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ISSUANCE AND REVISIONS

#	DATE	DESCRIPTION
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KEY PLAN

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PROJECT MANAGER SJA

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OVERALL SITE PLAN

C 200

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KEYNOTES

- 1 ASPHALT PAVEMENT, SEE DETAIL ON C 504
- 2 CONCRETE PAVEMENT, SEE DETAIL ON C 504
- 3 BRICK PAVERS, INSTALLATION DETAILS BY OTHERS
- 4 CONCRETE SIDEWALK, SEE DETAILS ON C 504
- 5 CONCRETE STEPS, DESIGN BY OTHERS
- 6 BIKE RACKS
- 7 CONCRETE CURB AND GUTTER, SEE DETAIL ON C 504

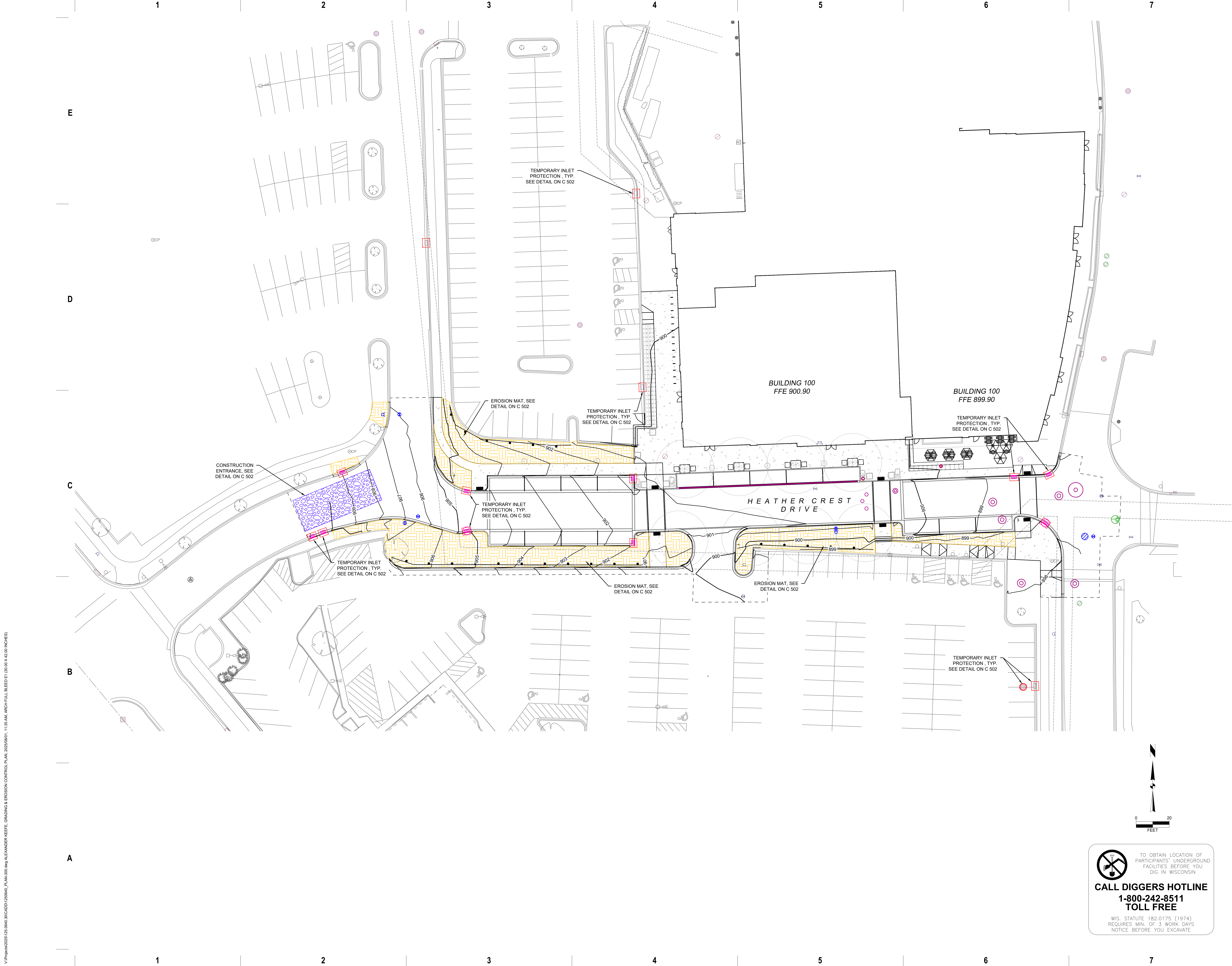


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V:\projects\2025\125 8640 30\CAD\01\258640\_PLAN-300.dwg ALEXANDER KEEFE, GRADING & EROSION CONTROL PLAN, 2025/08/01, 11:35 AM, ARCH FULL BLEED E1 (30.00 X 42.00 INCHES)



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PROJECT INFORMATION

HILLDALE SHOPPING  
CENTER

HILLDALE

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Madison, WI 53705

ISSUANCE AND REVISIONS

#	DATE	DESCRIPTION
1	8-01-2025	CITY SUBMITTAL

KEY PLAN

SHEET INFORMATION

PROJECT MANAGER SJA

PROJECT NUMBER 125.0640.30

GRADING & EROSION  
CONTROL PLAN

C 300

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V:\projects\2025\125 8640-30\CAD\01\258640\_PLAN-300.dwg ALEXANDER KEEFE, SPOT ELEVATION PLAN, 2025/06/11, 11:35 AM, ARCH FULL BLEED E1 (30.00 X 42.00 INCHES)

NOTES:

H.P. = HIGH POINT FOR DRAINAGE

L.P. = LOW POINT FOR DRAINAGE

T/C = TOP OF CURB

TW = TOP OF WALL

BW = BOTTOM OF WALL

BC = BACK OF CURB

(XXX.XX) = EXISTING SPOT ELEVATION

ALL SPOT ELEVATIONS ARE AT THE EDGE OF PAVEMENT (FLAG OF CURB)

HATCHED CURB AND GUTTER DEPICTS REJECT CURB LOCATIONS

ALL LANDSCAPE AND SOD AREAS SHALL HAVE POSITIVE DRAINAGE

CONTRACTOR SHALL PROVIDE CONTROL JOINTS, CONSTRUCTION JOINTS AND EXPANSION JOINTS

IN SLAB ON GRADE, SIDEWALKS AND DRIVEWAYS.

CONTROL JOINT MAXIMUM DISTANCE: SIDEWALKS - 6' O.C., ALL OTHERS 10' O.C.

SAW CUT CONTROL JOINTS SHALL BE A MINIMUM OF 1/4" OF THE CONCRETE THICKNESS.

EXPANSION JOINT MINIMUM DISTANCE: SIDEWALKS - 24' O.C., ALL OTHERS 40' O.C.

DOWEL ALL EXPANSION JOINTS - 24" O.C.

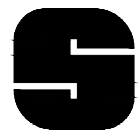


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PROJECT INFORMATION

HILLDALE SHOPPING  
CENTER

HILLDALE

702 N Midvale Blvd  
Madison, WI 53705

ISSUANCE AND REVISIONS

#	DATE	DESCRIPTION
1	8-01-2025	CITY SUBMITTAL

KEY PLAN

SHEET INFORMATION

PROJECT MANAGER SJA

PROJECT NUMBER 125.0640.30

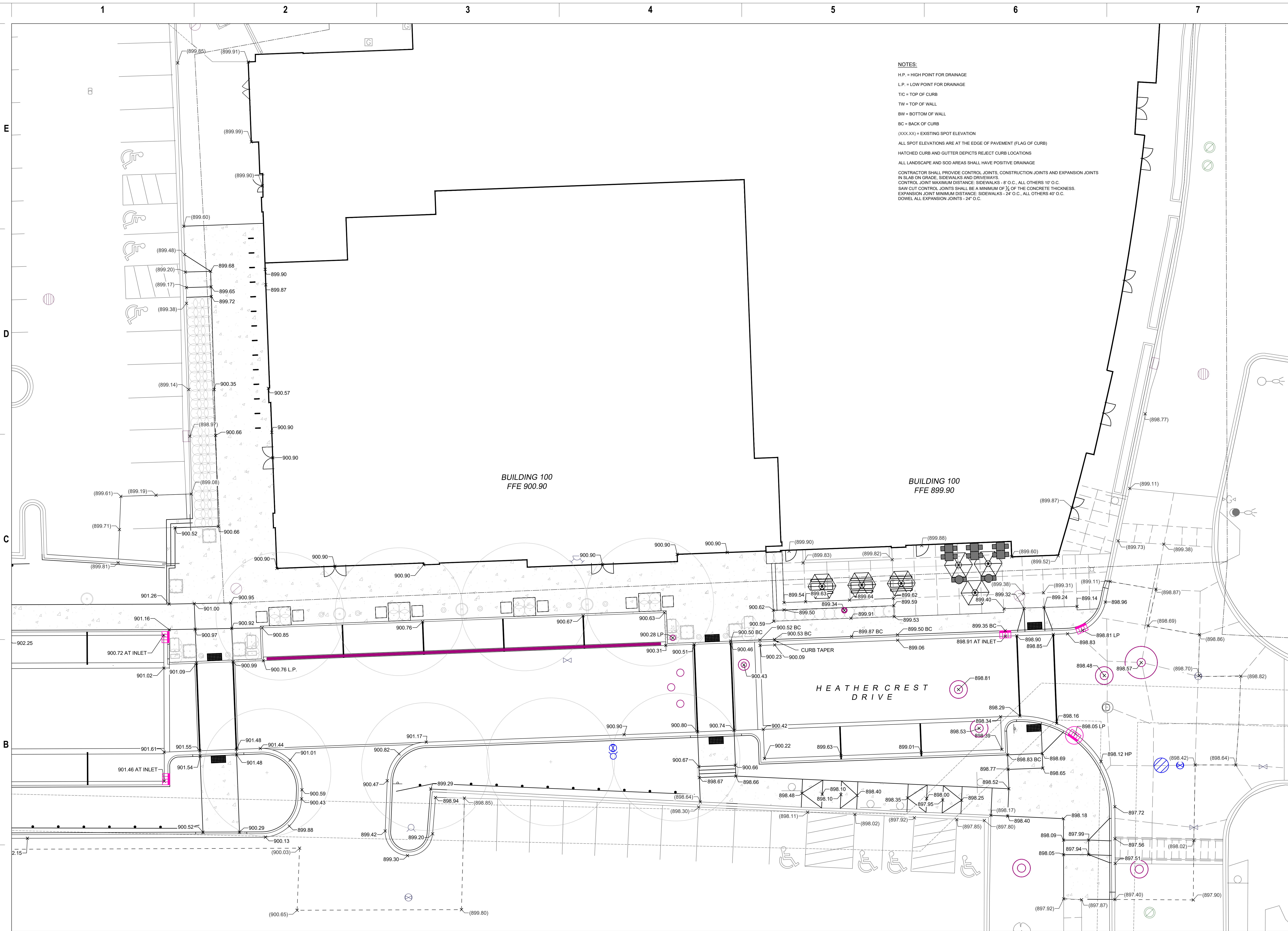
SPOT ELEVATION  
PLAN

C 301

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V:\projects\2025\125 0640\30\CD\01\250640\_PLAN-300.dwg ALEXANDER KEEFE, BPT ELEVATION PLAN, 2025/08/11, 11:35 AM ARCH FULL BLEED E1 (30.00 X 42.00 INCHES)



NOTES:  
H.P. = HIGH POINT FOR DRAINAGE  
L.P. = LOW POINT FOR DRAINAGE  
TIC = TOP OF CURB  
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BW = BOTTOM OF WALL  
BC = BACK OF CURB  
(XXX.XX) = EXISTING SPOT ELEVATION  
ALL SPOT ELEVATIONS ARE AT THE EDGE OF PAVEMENT (FLAG OF CURB)  
HATCHED CURB AND GUTTER DEPICTS REJECT CURB LOCATIONS  
ALL LANDSCAPE AND SOD AREAS SHALL HAVE POSITIVE DRAINAGE  
CONTRACTOR SHALL PROVIDE CONTROL JOINTS, CONSTRUCTION JOINTS AND EXPANSION JOINTS IN SLAB ON GRADE, SIDEWALKS AND DRIVEWAYS  
CONTROL JOINT MAXIMUM DISTANCE: SIDEWALKS - 8' O.C. ALL OTHERS 10' O.C.  
SAW CUT CONTROL JOINTS SHALL BE A MINIMUM OF 1/4" OF THE CONCRETE THICKNESS.  
EXPANSION JOINT MINIMUM DISTANCE: SIDEWALKS - 24' O.C. ALL OTHERS 40' O.C.  
DOWEL ALL EXPANSION JOINTS - 24' O.C.

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PROJECT INFORMATION  
**HILLDALE SHOPPING CENTER**

**HILLDALE**  
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ISSUANCE AND REVISIONS

#	DATE	DESCRIPTION
1	8-01-2025	CITY SUBMITTAL

KEY PLAN

SHEET INFORMATION

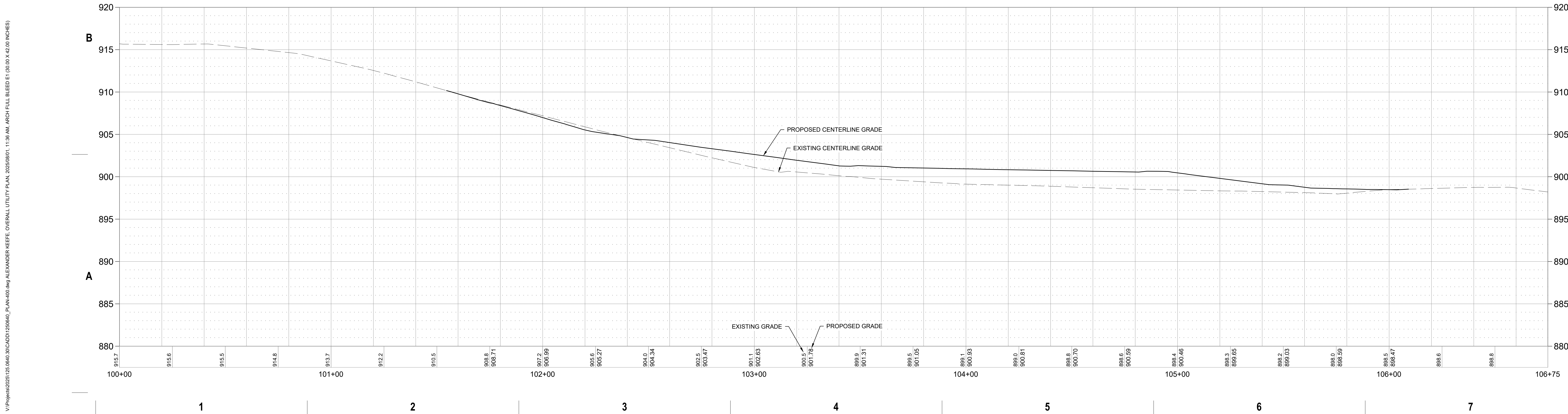
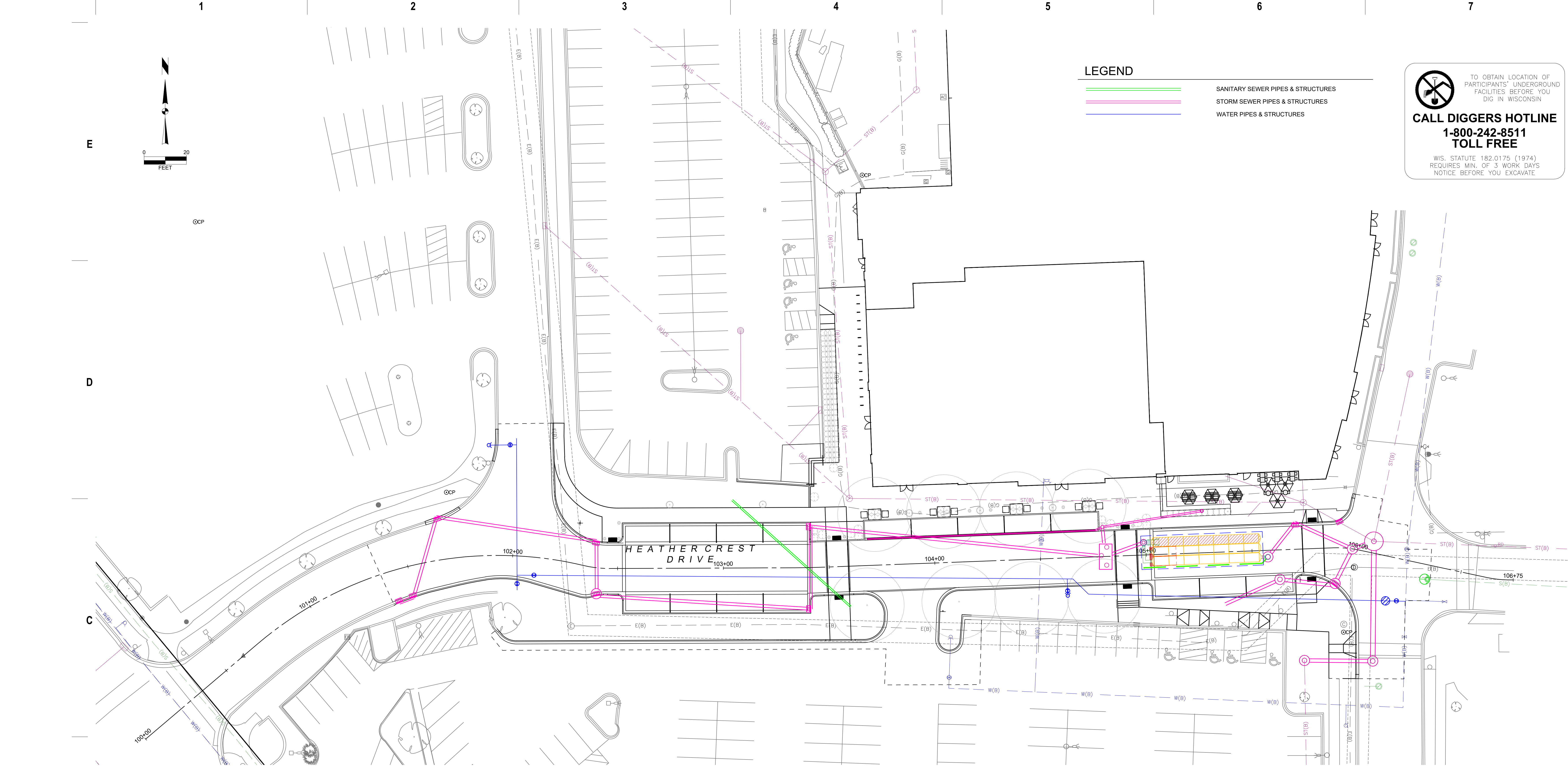
PROJECT MANAGER SJA  
PROJECT NUMBER 125.0640.30

SPOT ELEVATION PLAN

**C 302**  
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V:\projects\2025\125 8640\30\CD\01\258640\_Plan\_400.dwg ALEXANDER KEEFE, OVERALL UTILITY PLAN, 2025/08/01, 11:38 AM ARCH FULL BLEED E1 (30.00 X 42.00 INCHES)



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**PROJECT INFORMATION**

**HILDALE SHOPPING CENTER**

**HILDALE**

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**ISSUANCE AND REVISIONS**

#	DATE	DESCRIPTION
1	8-01-2025	CITY SUBMITTAL

**KEY PLAN**

**SHEET INFORMATION**

PROJECT MANAGER SJA  
PROJECT NUMBER 125.0640.30

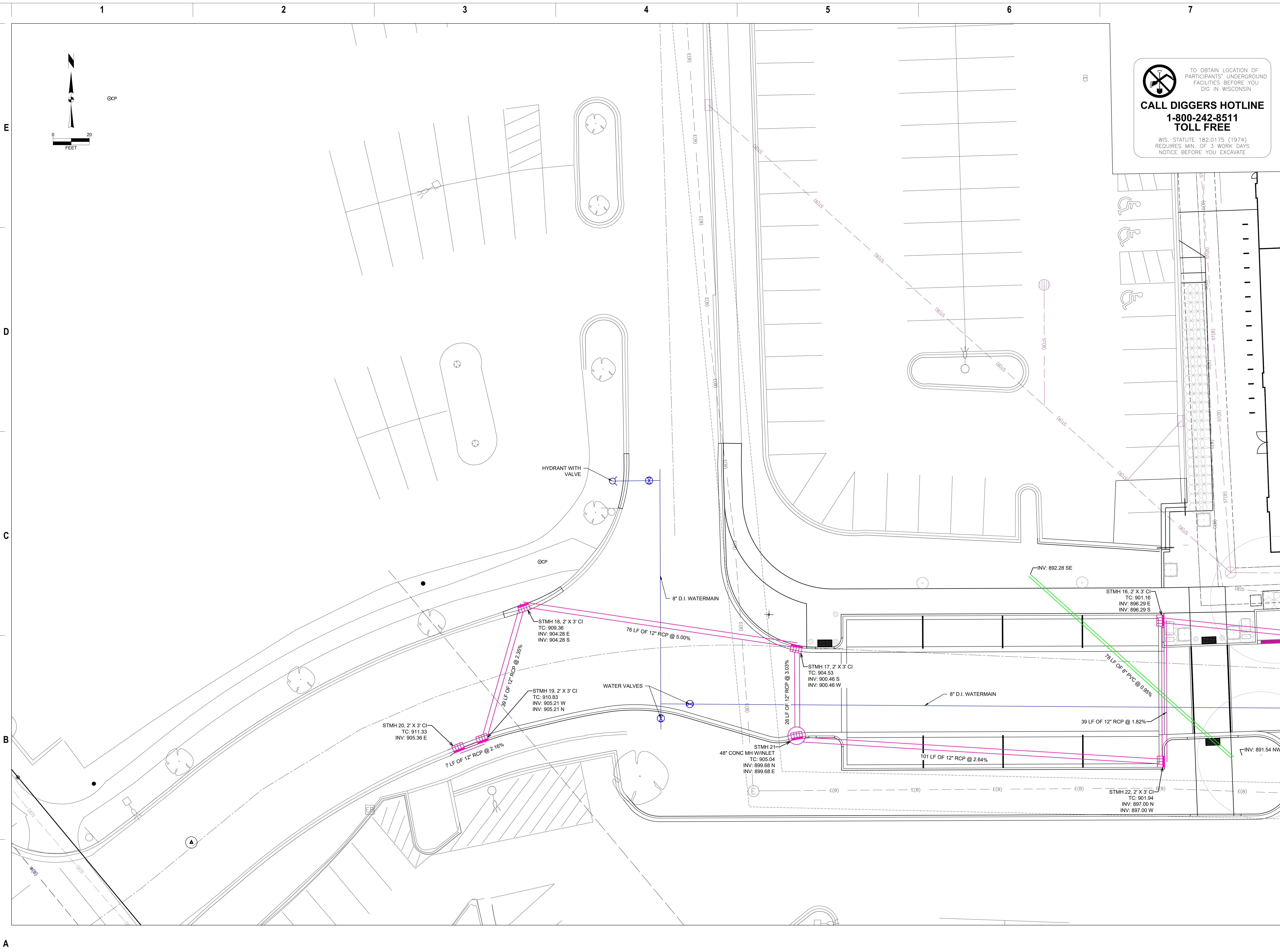
**OVERALL UTILITY PLAN**

**C 400**

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**PROJECT INFORMATION**  
**HILDALE SHOPPING CENTER**

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**ISSUANCE AND REVISIONS**

#	DATE	DESCRIPTION
1	8-01-2025	CITY SUBMITTAL

**KEY PLAN**

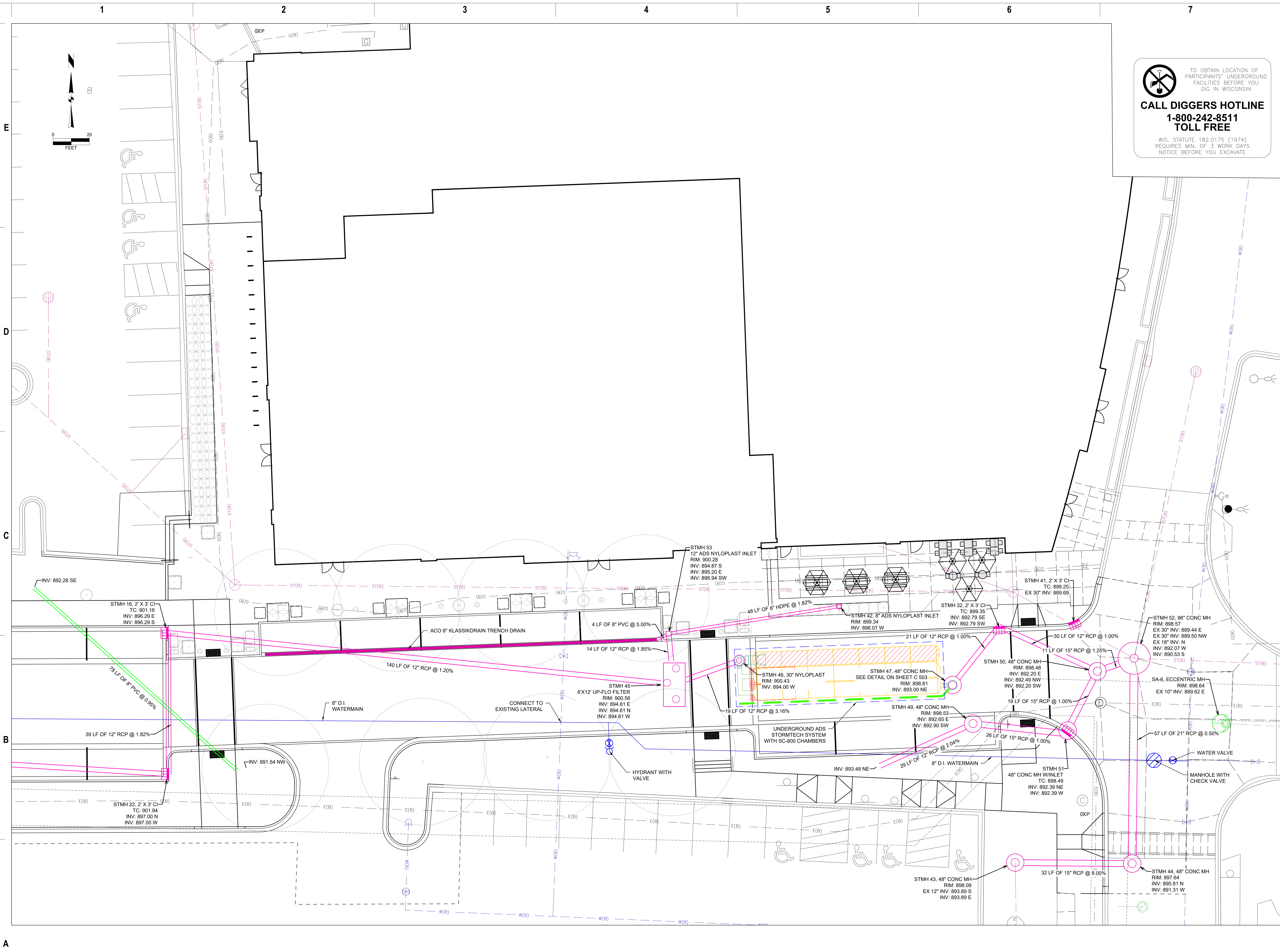
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PROJECT MANAGER SJA  
PROJECT NUMBER 125.0640.30

**UTILITY PLAN**  
**C 401**  
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608-838-0444

**PROJECT INFORMATION**  
**HILLDALE SHOPPING CENTER**  
  
**HILLDALE**  
702 N Midvale Blvd  
Madison, WI 53705

**ISSUANCE AND REVISIONS**

#	DATE	DESCRIPTION
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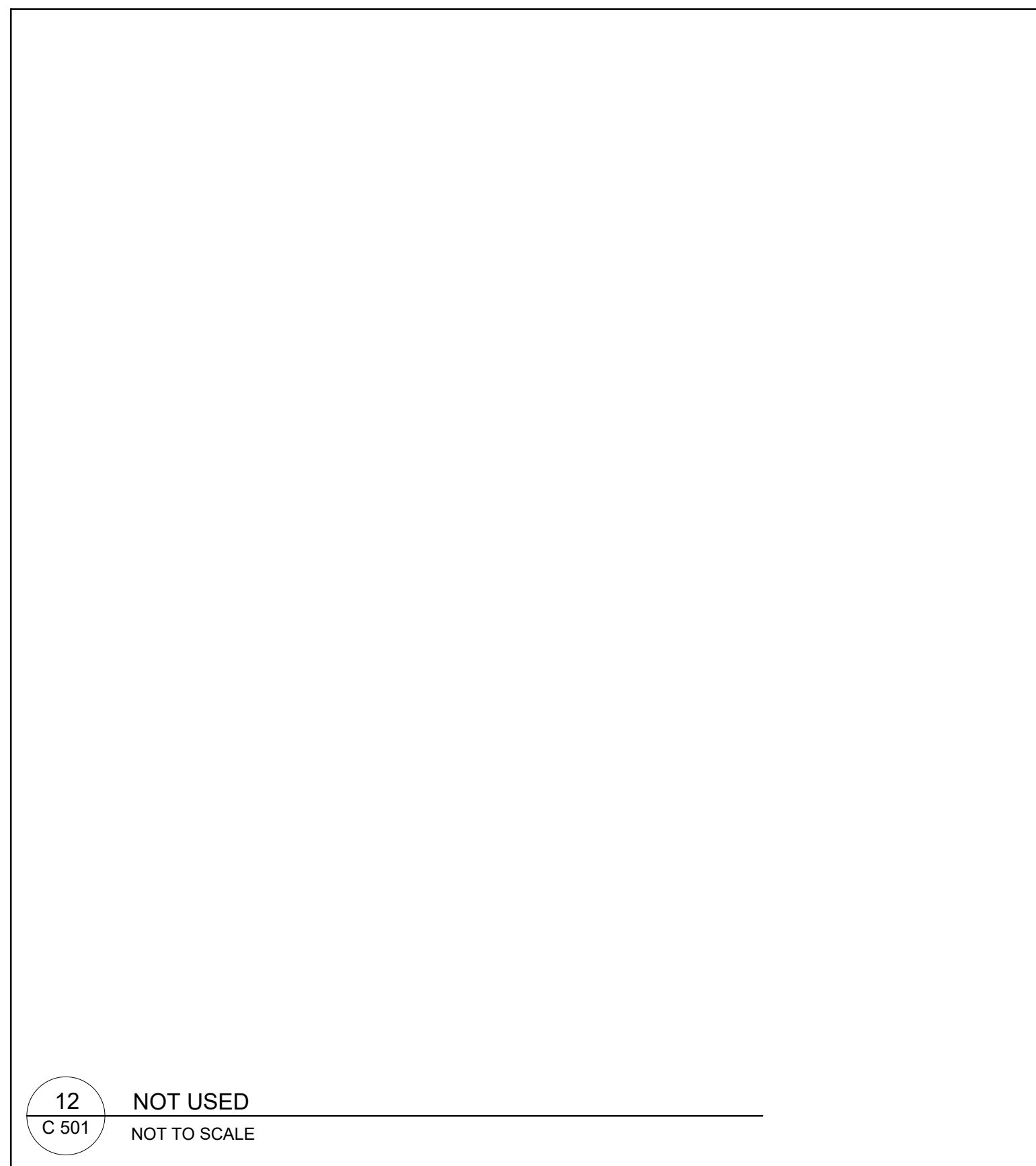
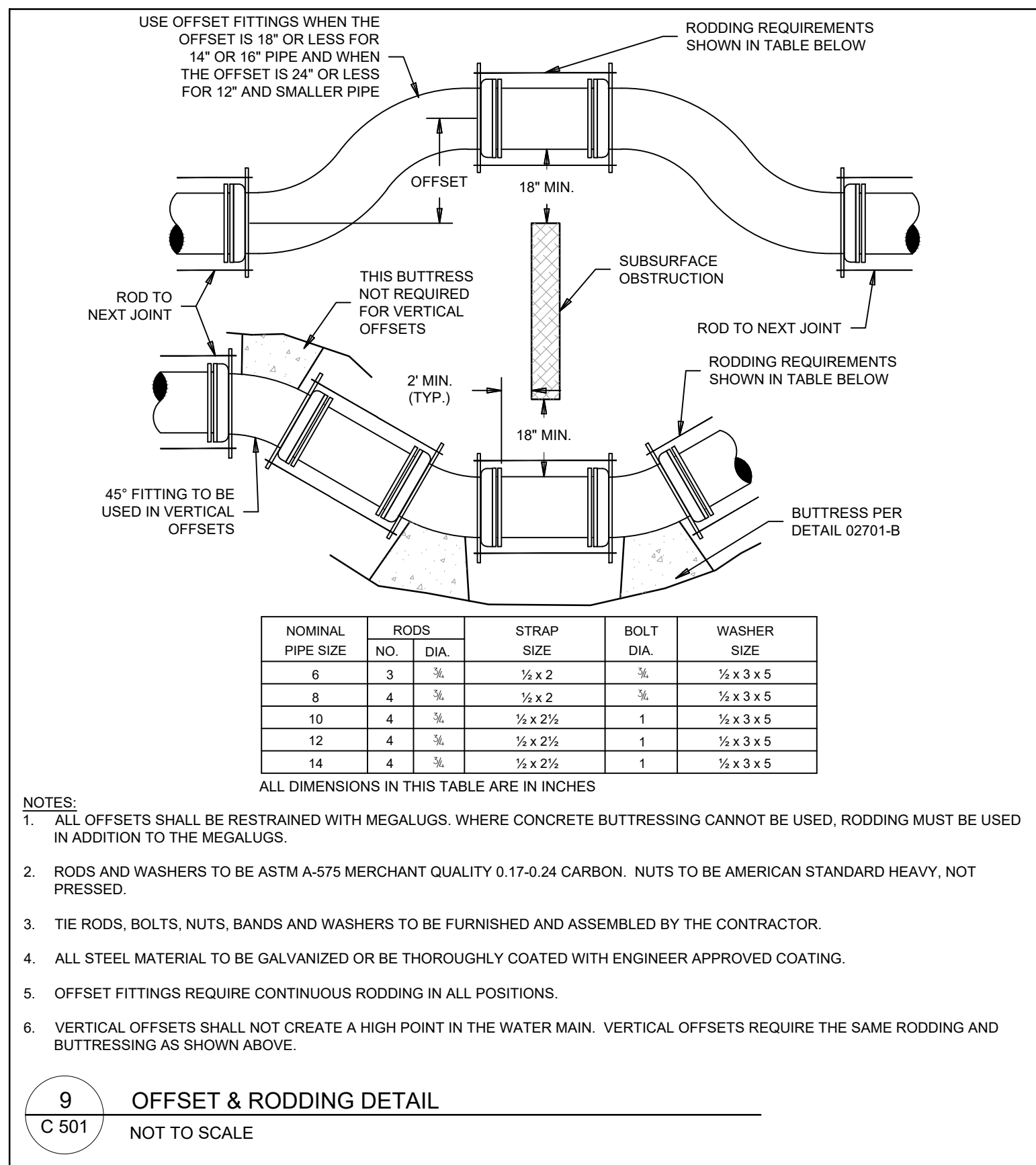
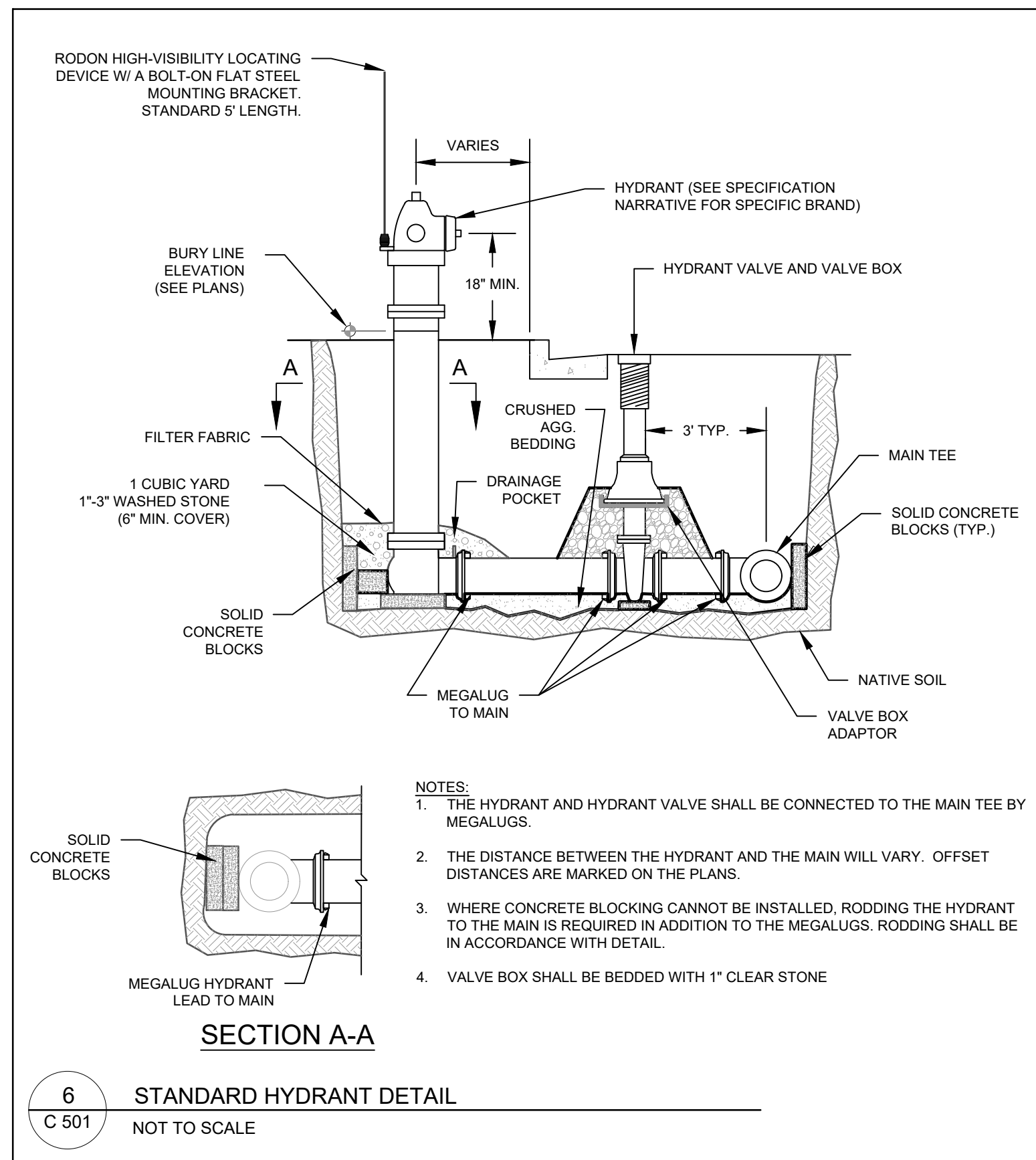
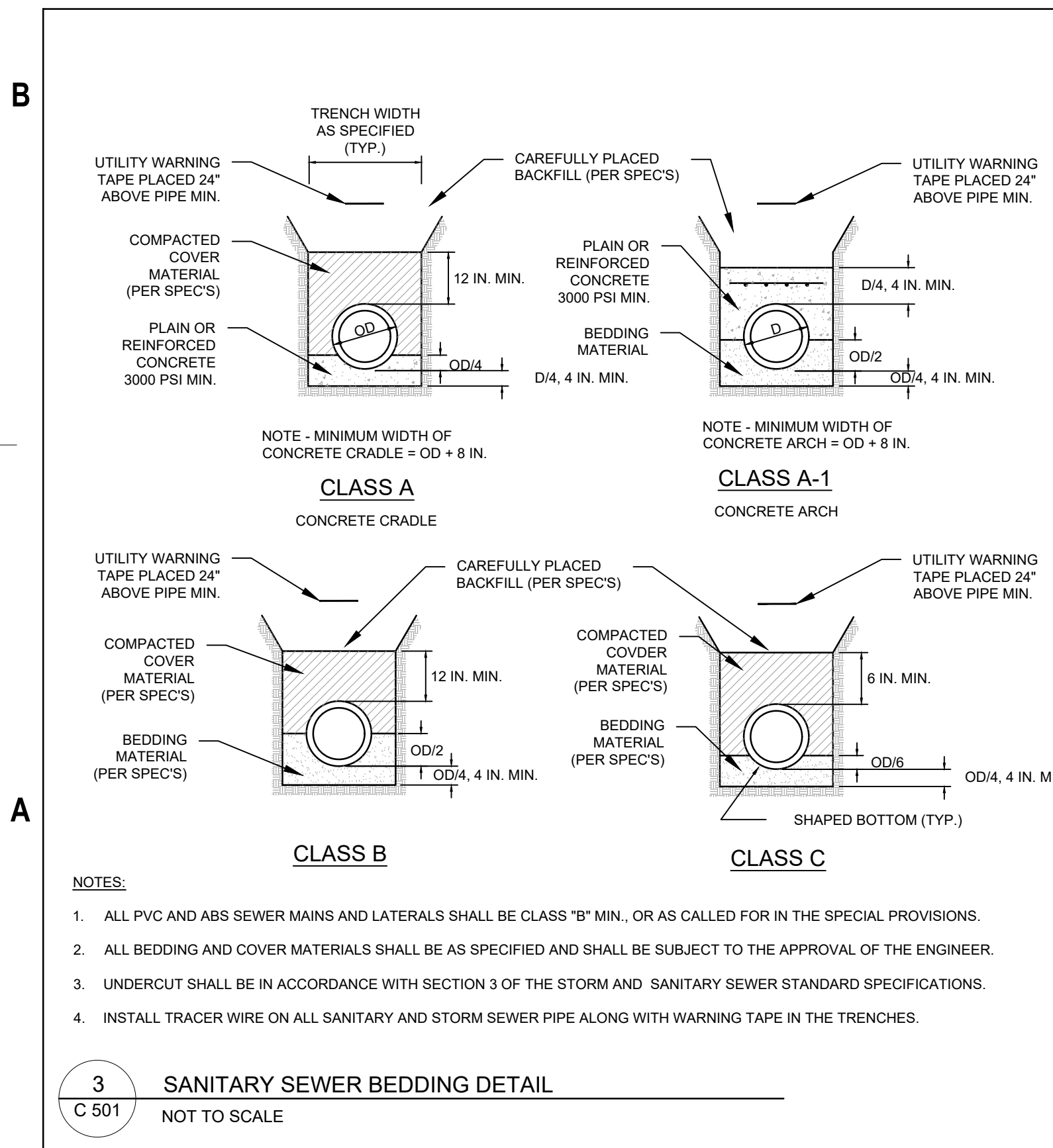
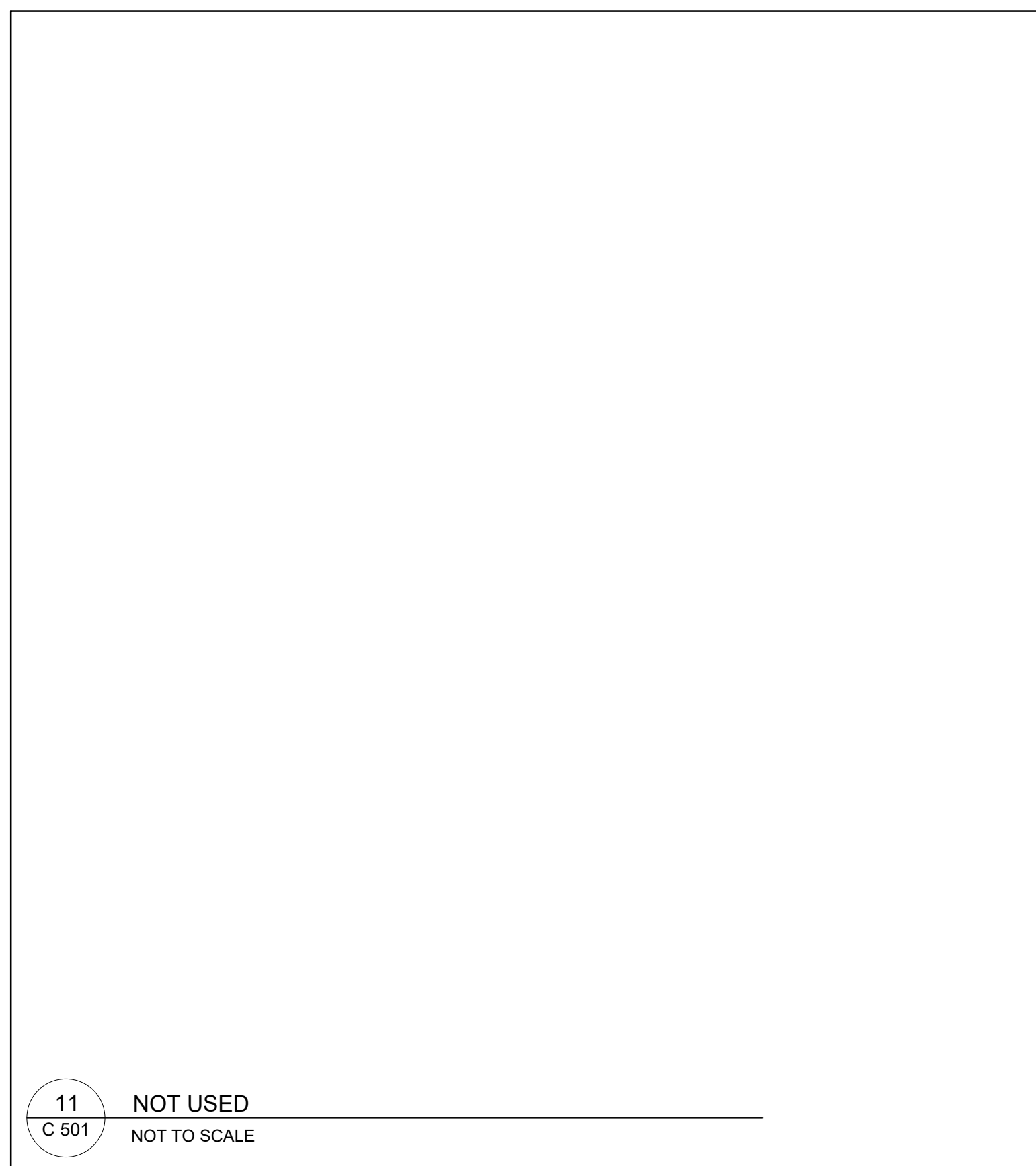
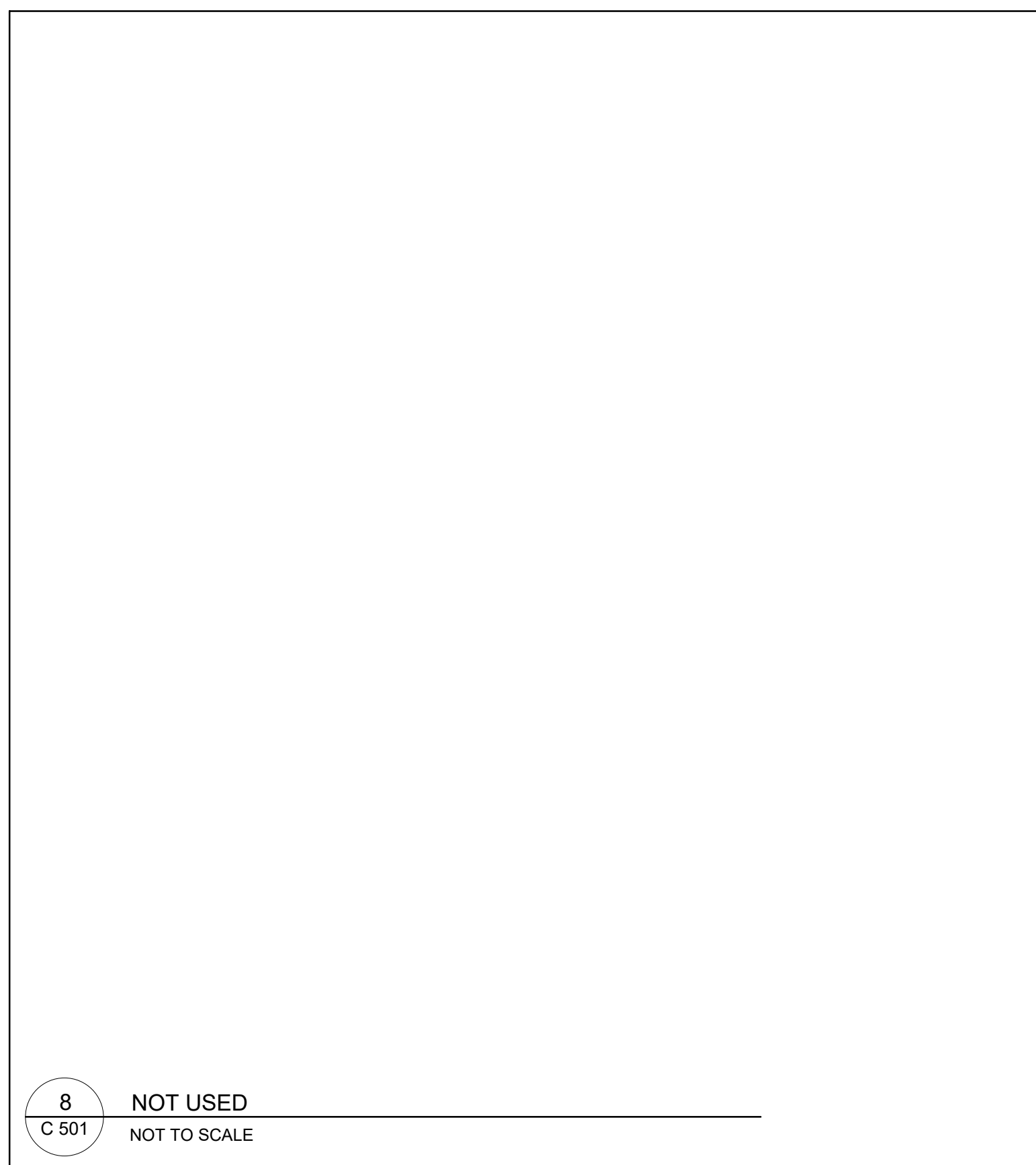
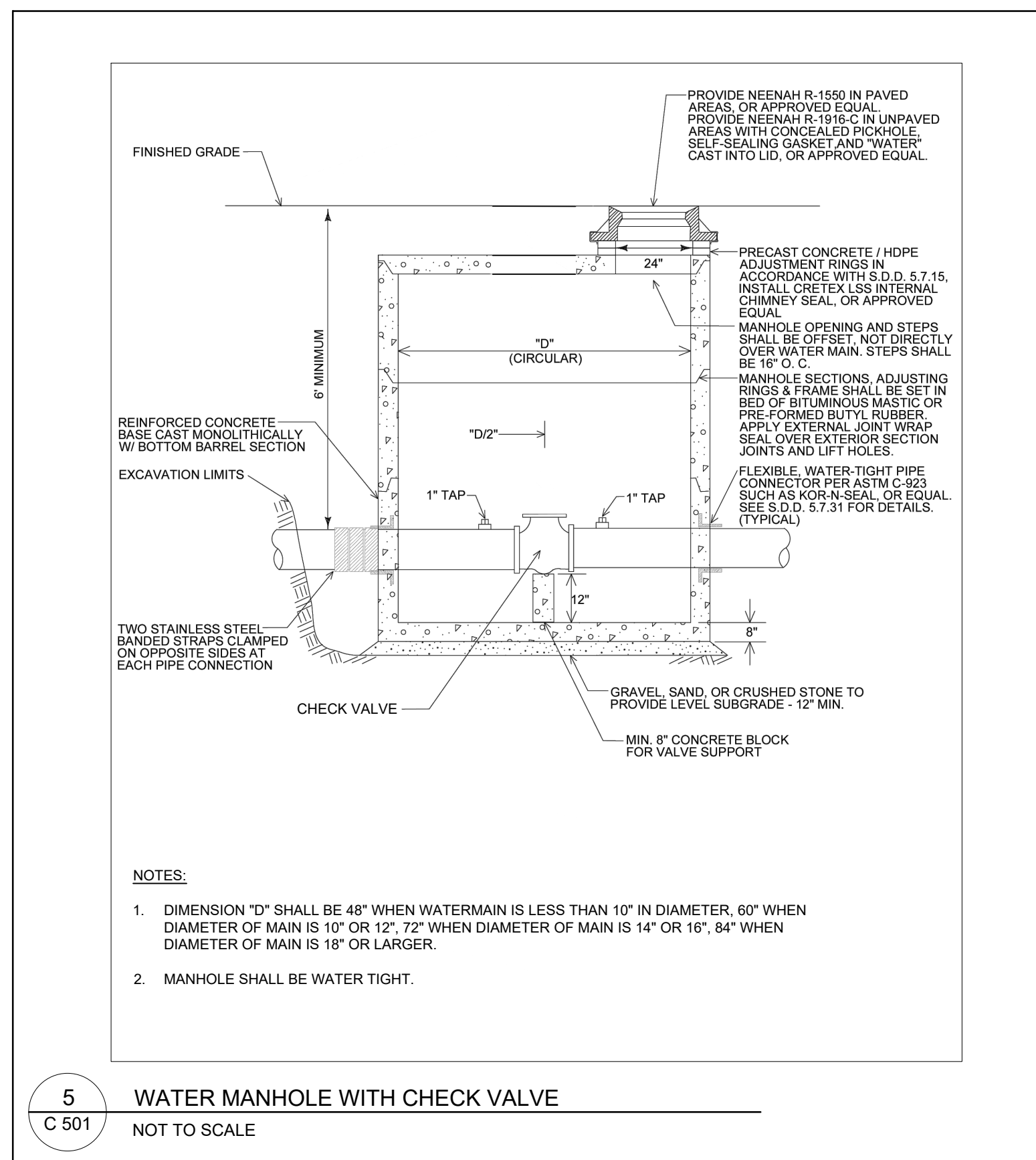
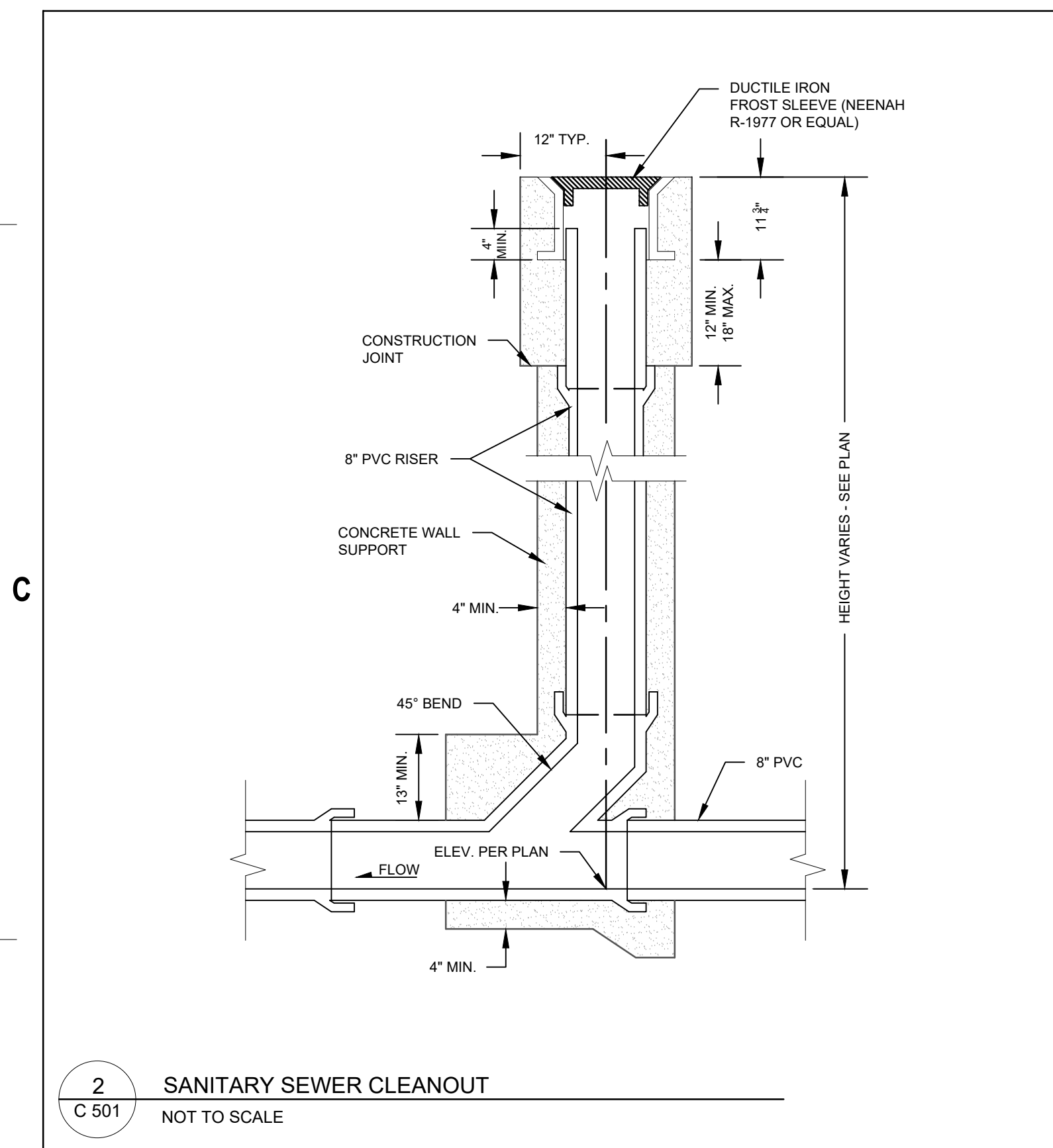
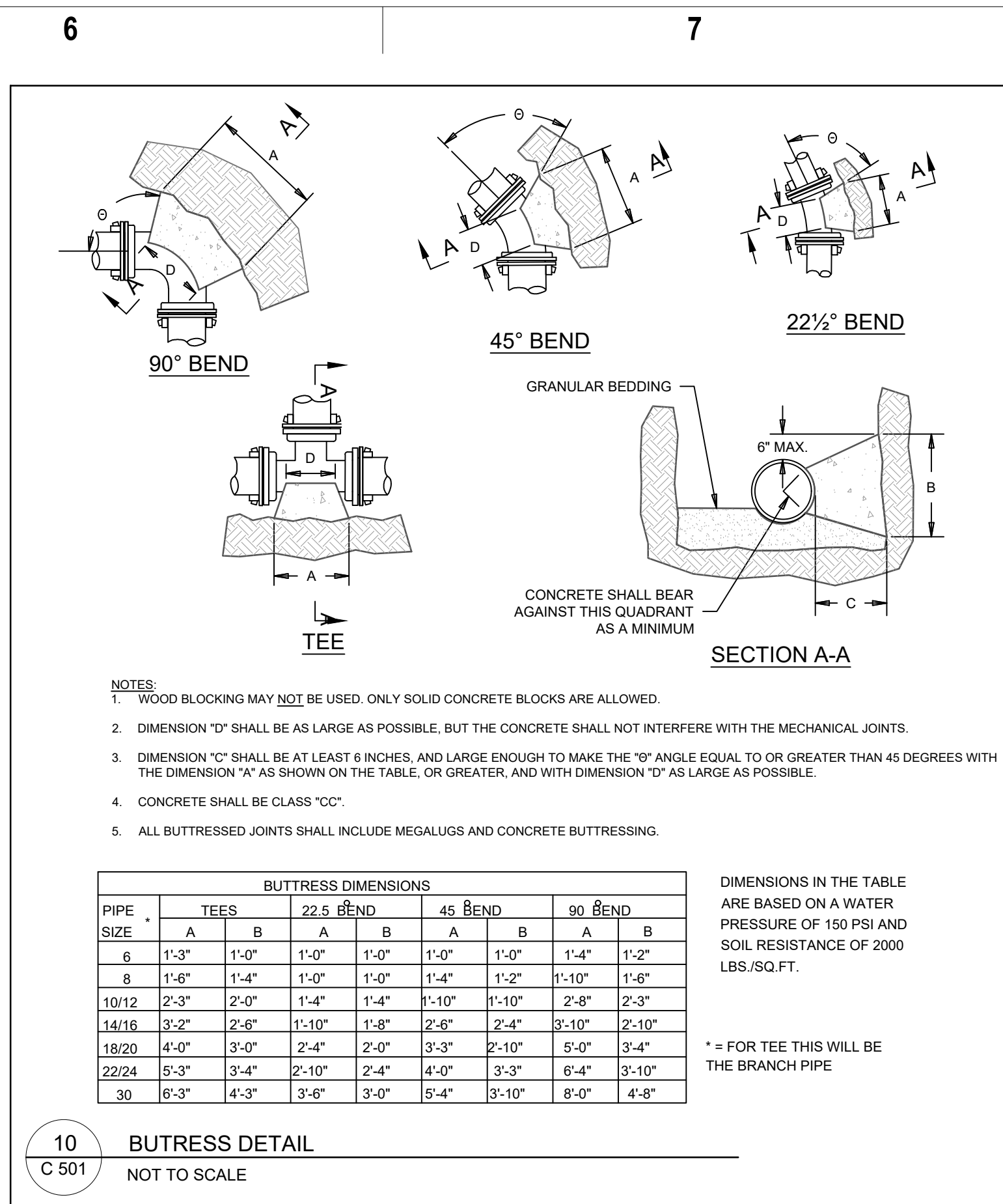
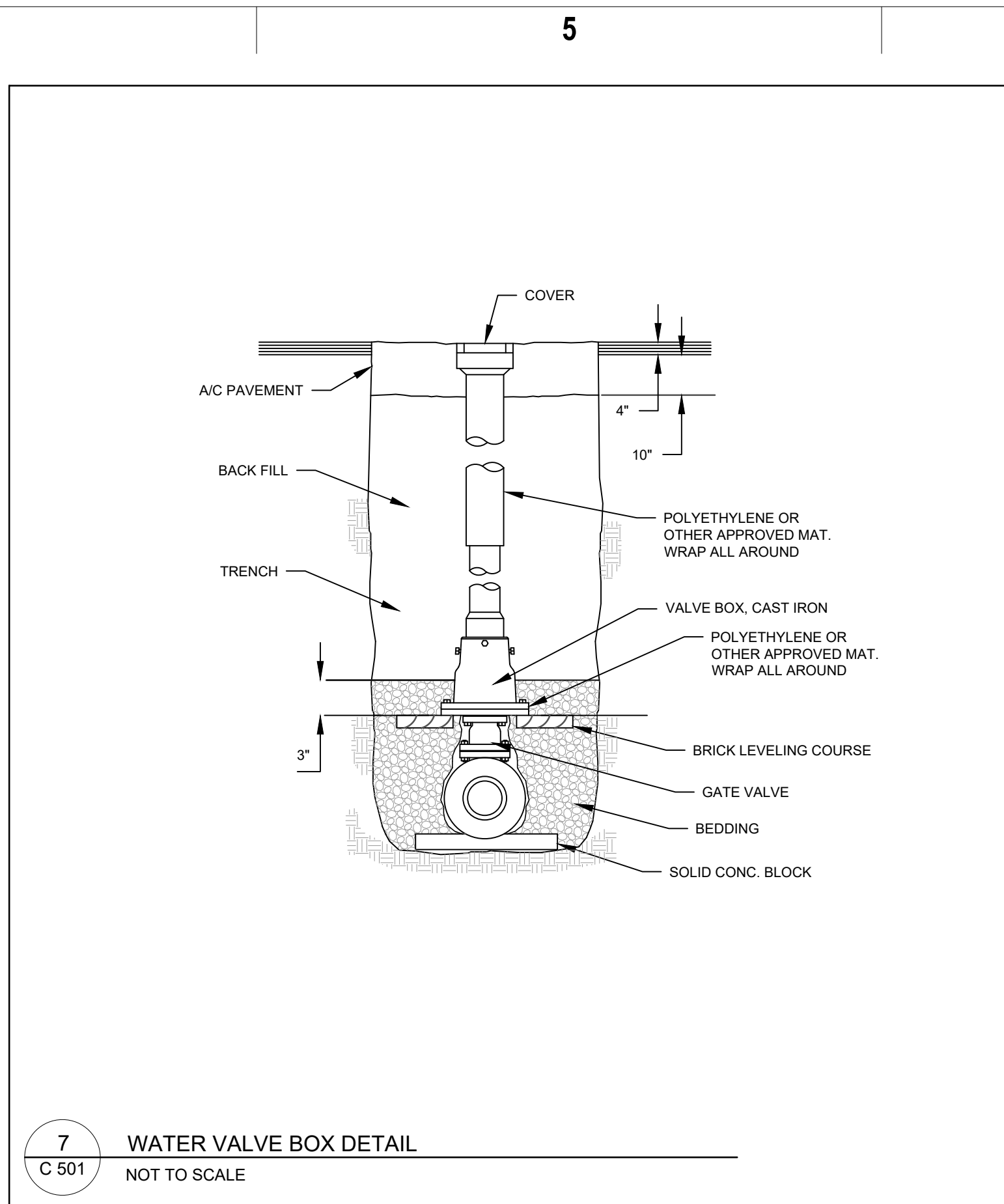
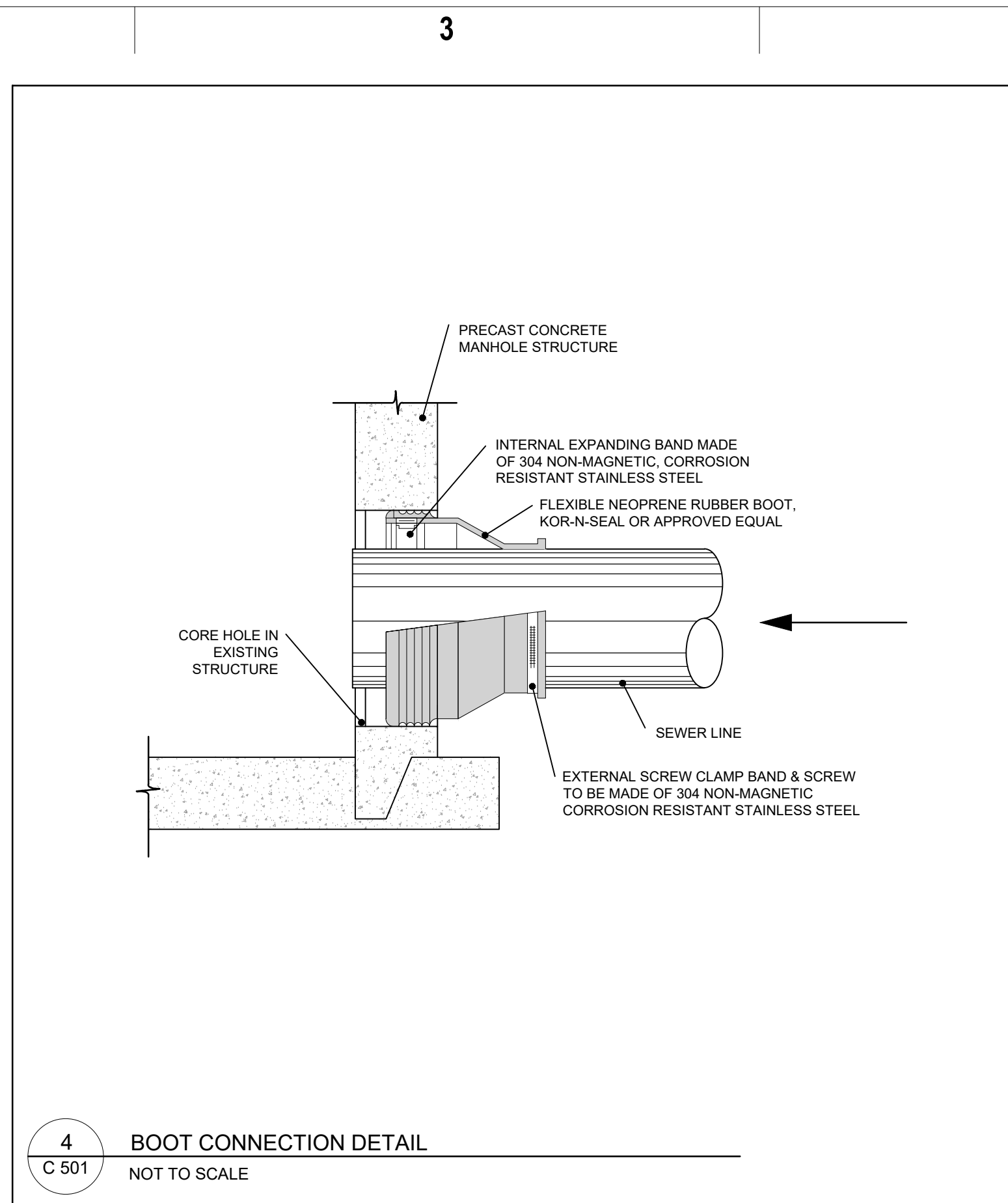
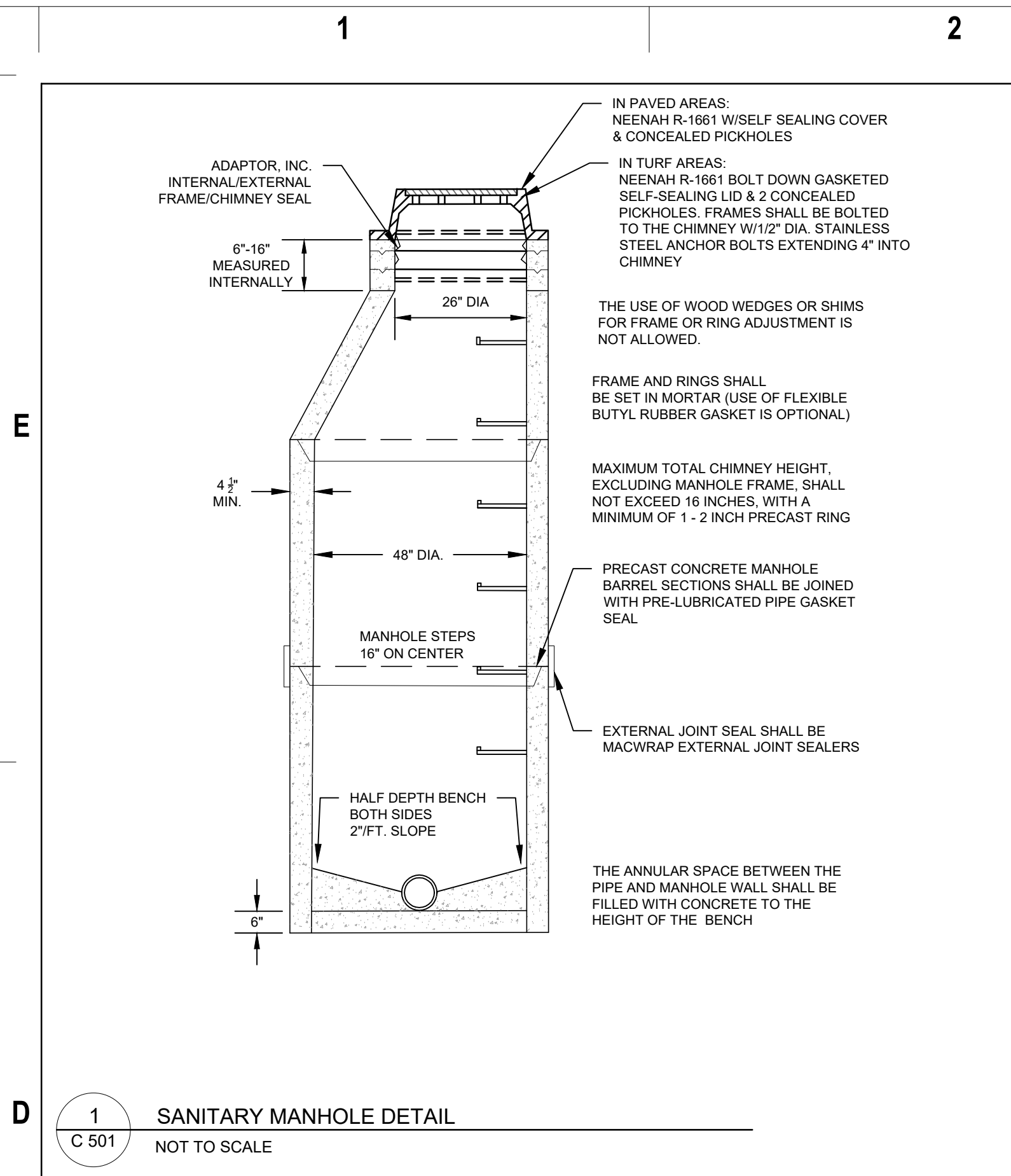
**KEY PLAN**

**SHEET INFORMATION**

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PROJECT NUMBER 125.0640.30

**UTILITY PLAN**  
**C 402**  
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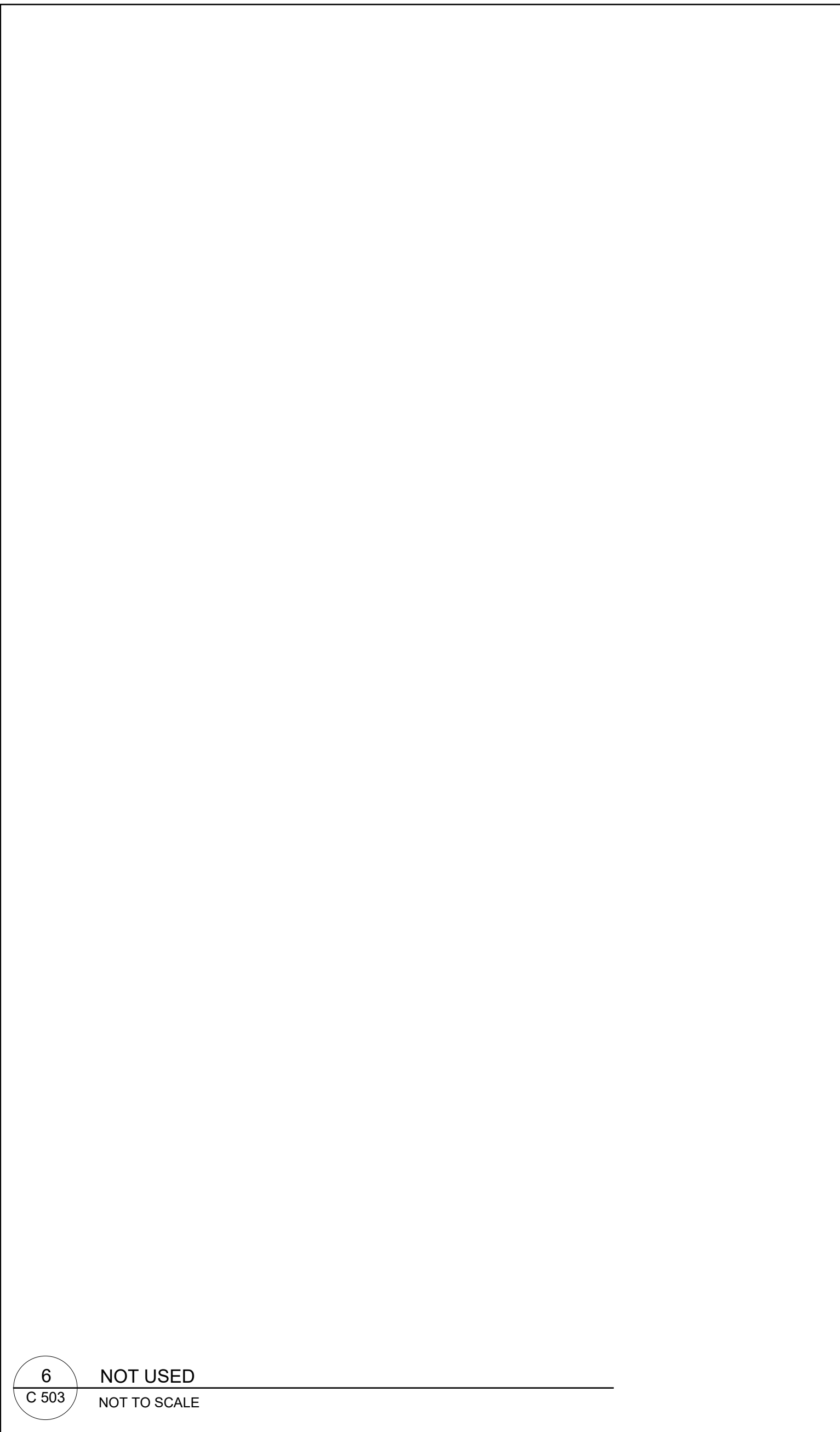
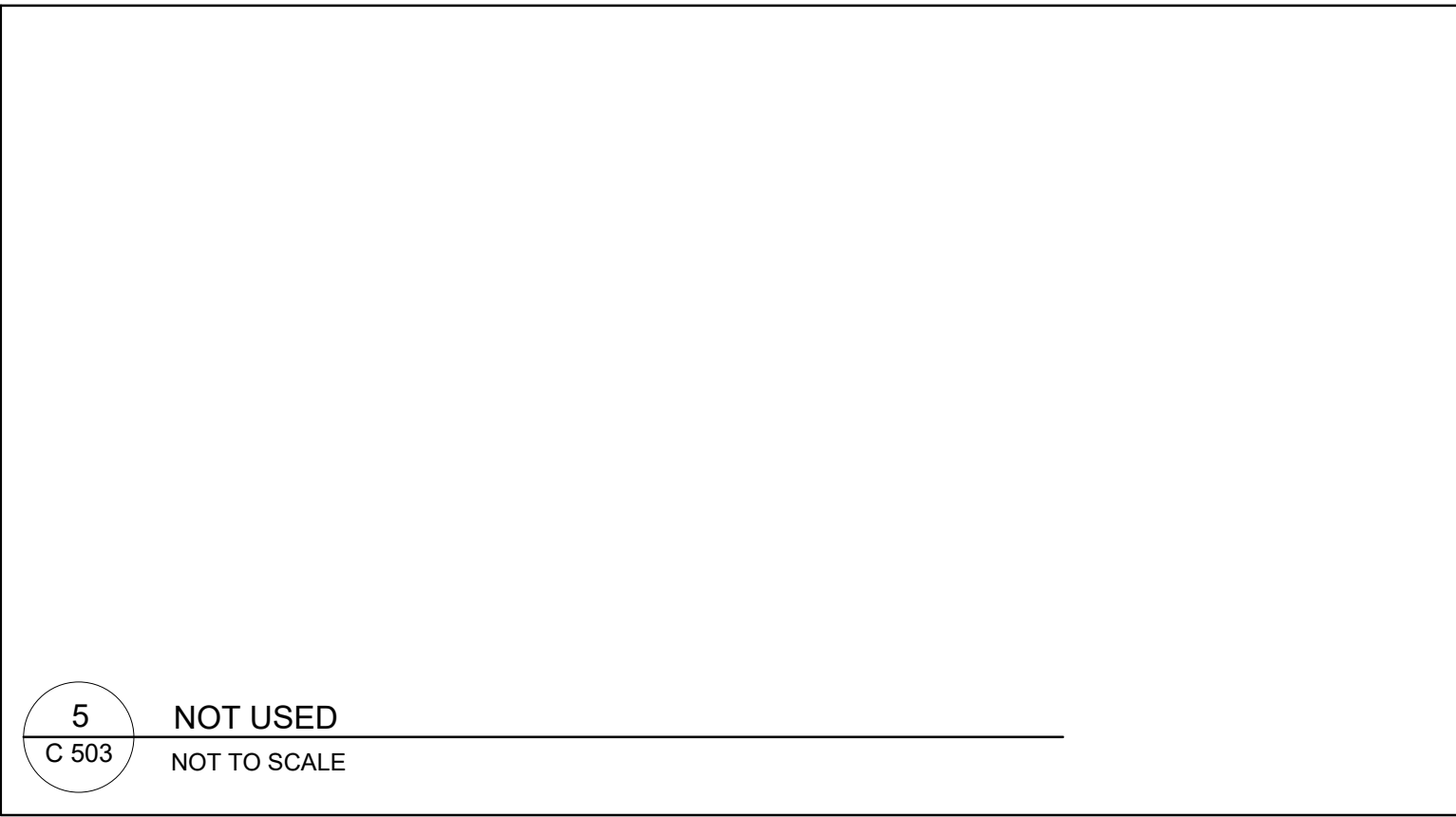
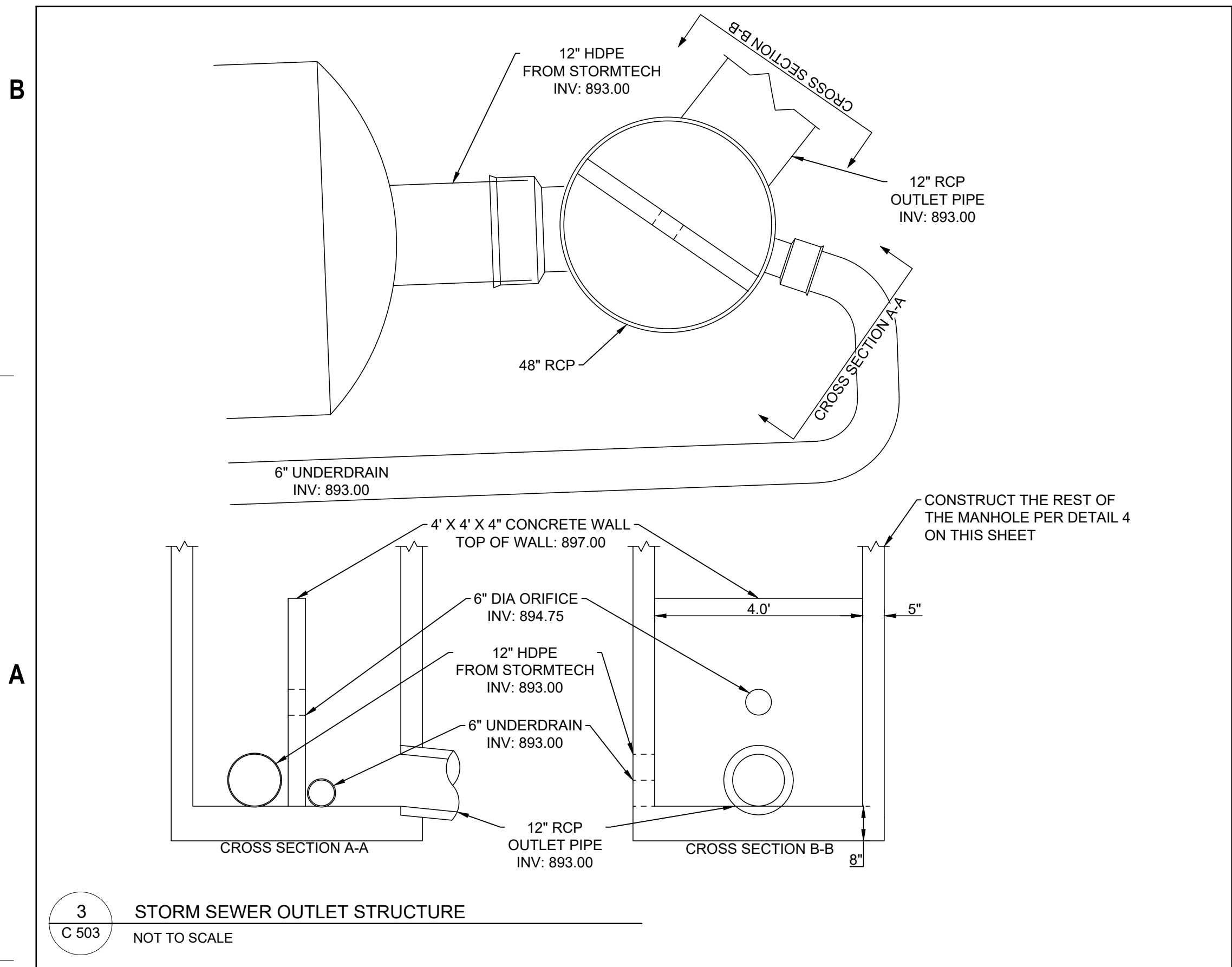
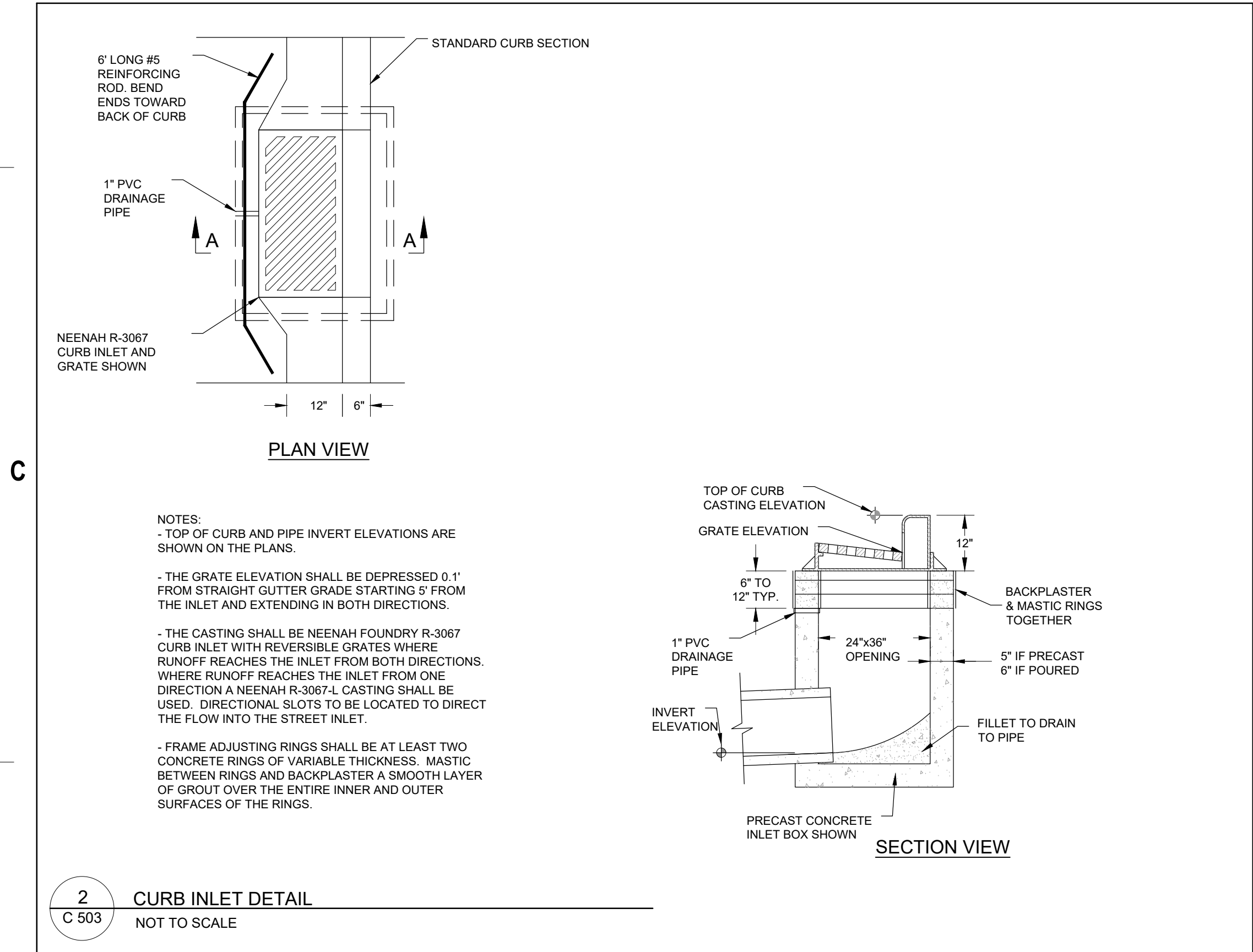
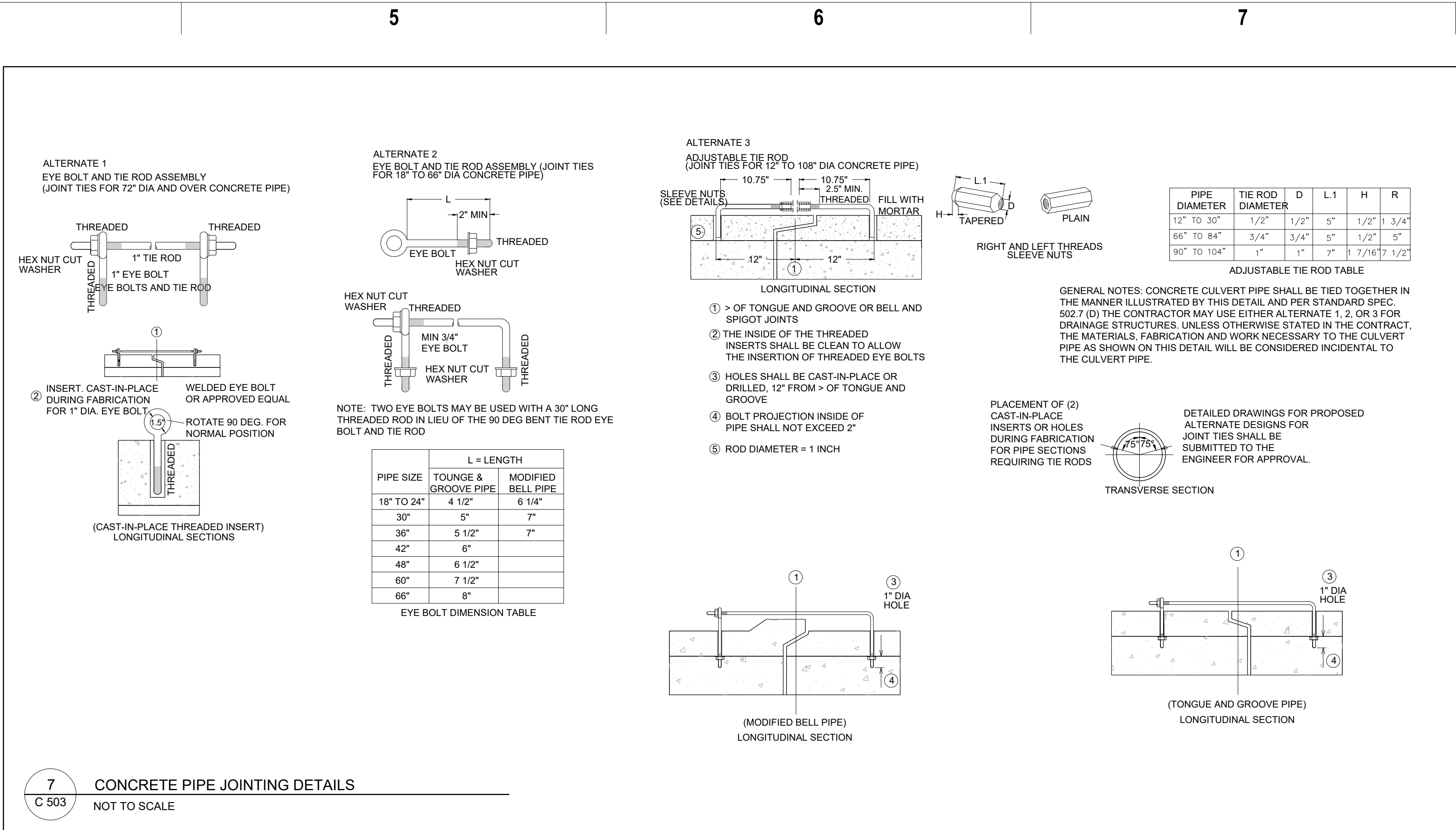
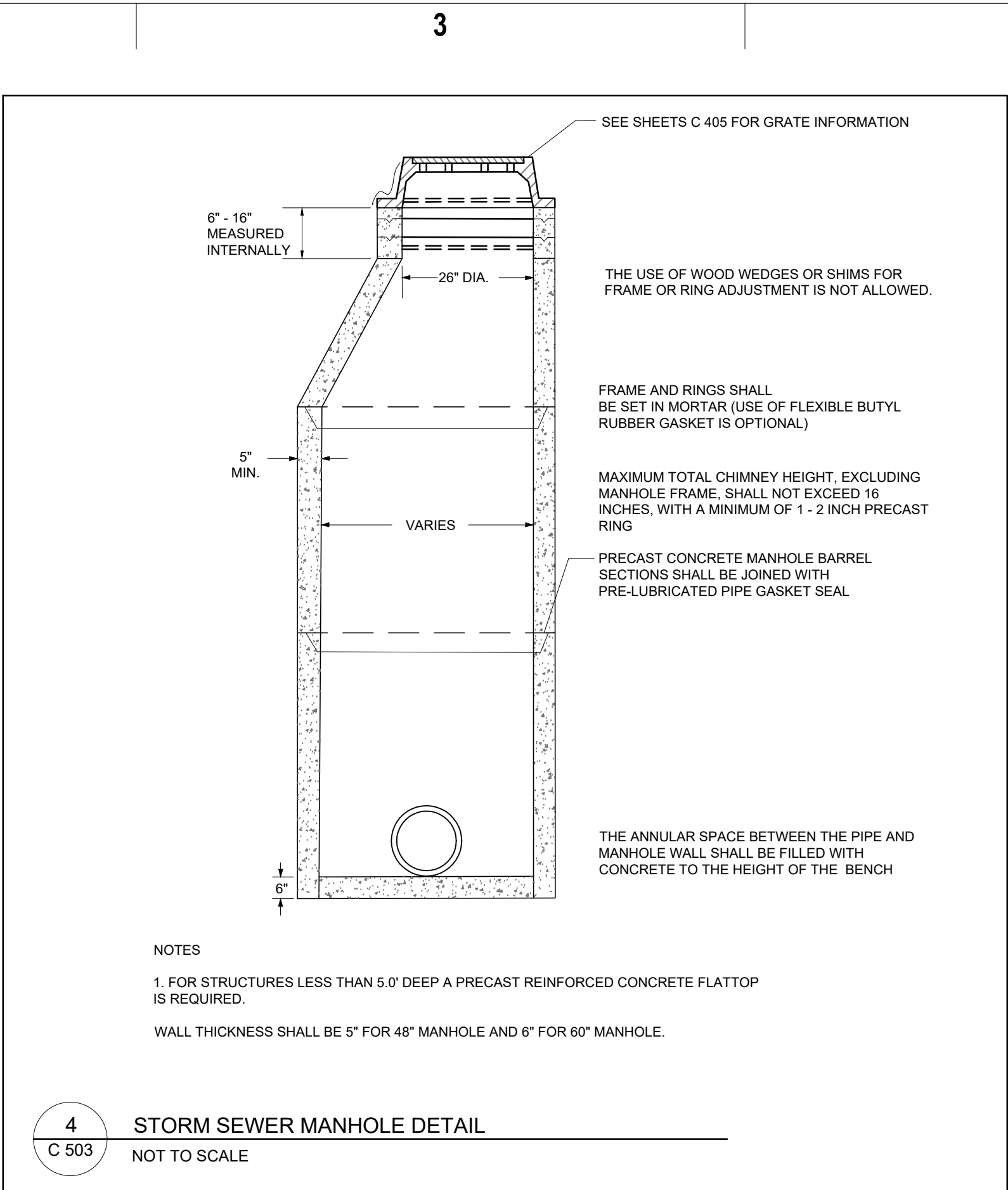
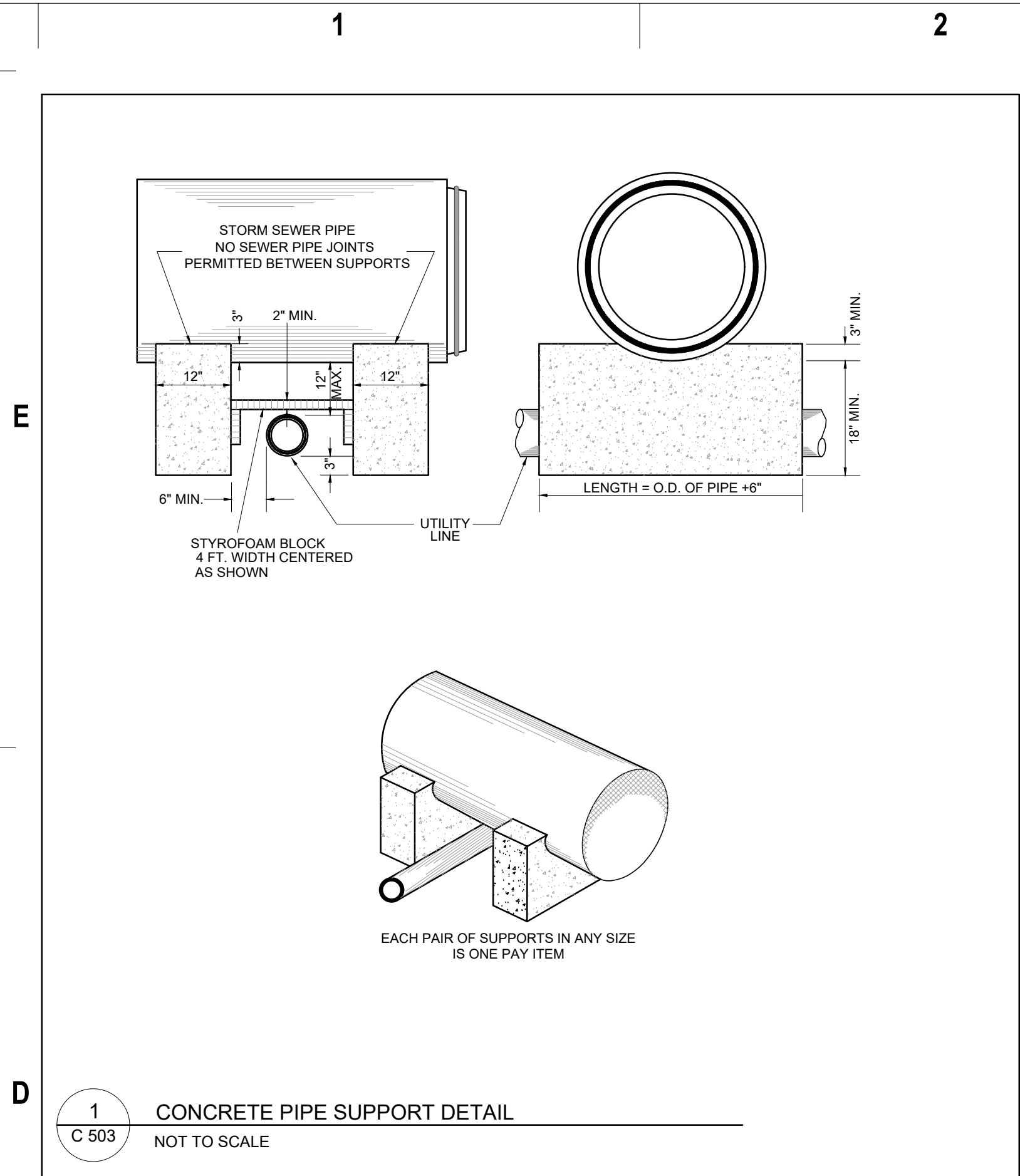








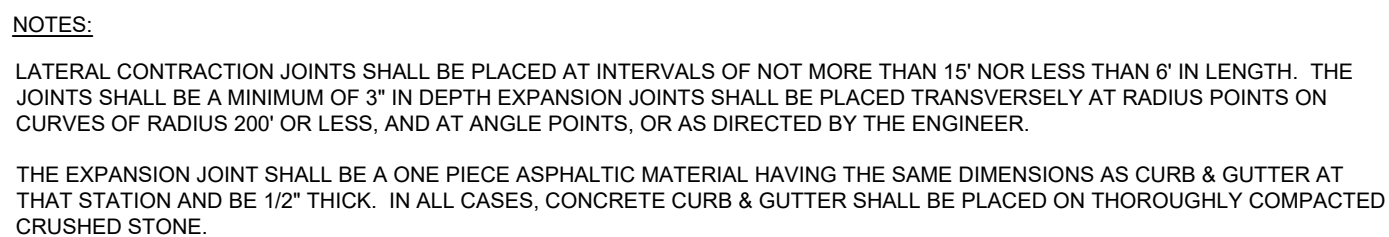
V:\projects\2025\125 8640 30\CAD\01258640\_Plan-500.dwg ALEXANDER KEEFE, STORMWATER DETAILS, 20250801, 1:136 AM, ARCH FULL BLEED ET (30.00 X 42.00 INCHES)



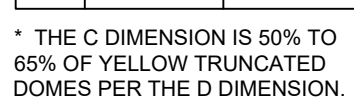
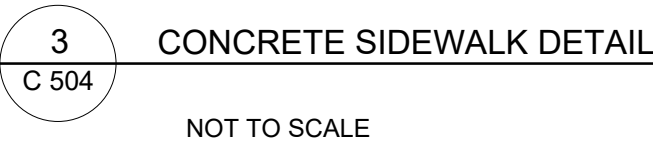
**ISSUANCE AND REVISIONS**

#	DATE	DESCRIPTION
1	8-01-2025	CITY SUBMITTAL

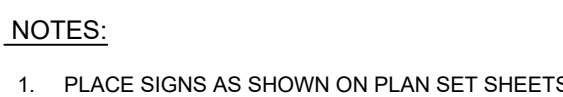




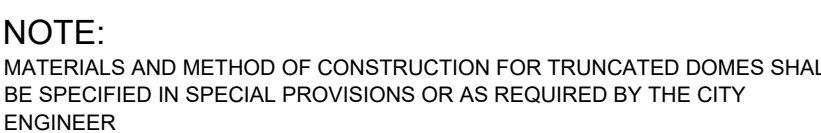
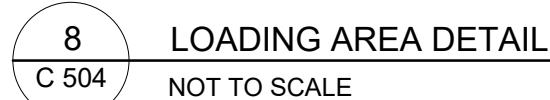
2 CURB & GUTTER DETAILS  
C 504 NOT TO SCALE



4 TRUNCATED DOME DETAIL  
C 504 NOT TO SCALE



7 STOP SIGN DETAIL  
C 504 NOT TO SCALE



**GENERAL NOTES**  
TYPE 2-A RAMPS SHALL BE USED IN NEW DEVELOPMENTS UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER

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.

RAMPS SHALL BE BUILT AT 12H:1V OR FLATTER. WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE H POINT ON THE RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD."

CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES SHALL BE APPROVED BY THE CITY ENGINEER. THE COLOR OF DETECTABLE WARNING FIELD SHALL BE SAFETY YELLOW OR APPROVED EQUAL AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

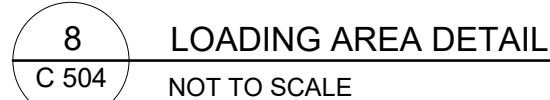
SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

DETECTABLE WARNING SURFACE SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS 6 INCHES MINIMUM AND 8 INCHES MAXIMUM FROM THE CURB LINE.

9 SIDEWALK RAMP DETAILS  
C 504  
NOT TO SCALE



10 PAVEMENT TYPE DETAILS  
C 504 NOT TO SCALE



## ISSUANCE AND REVISIONS

#	DATE	DESCRIPTION
	8-01-2025	CITY SUBMITTAL

### KEY PLAN

SHEET INFORMATION

PROJECT MANAGER	SJA
PROJECT NUMBER	125.0640.30

## SITE DETAILS

# C 504



PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER	
ADS SALES REP	
PROJECT NO.	



# HILLDALE PHASE 2 REVISED

## MADISON, WI, USA

### SC-800 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH SC-800.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE 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 BE DESIGNED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
  - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
  - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
  - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 750 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
  - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
  - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
  - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.
- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #6.32 FOR MANIFOLD SIZING GUIDANCE. DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- ADS DOES NOT DESIGN OR PROVIDE MEMBRANE LINER SYSTEMS. TO MINIMIZE THE LEAKAGE POTENTIAL OF LINER SYSTEMS, THE MEMBRANE LINER SYSTEM SHOULD BE DESIGNED BY A KNOWLEDGEABLE GEOTEXTILE PROFESSIONAL AND INSTALLED BY A QUALIFIED CONTRACTOR.

### IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-800 SYSTEM

- STORMTECH SC-800 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH SC-800 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
  - STONESHOOTER 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 LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM - 3" (75 mm) SPACING BETWEEN THE CHAMBER ROWS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE; AASHTO M43 #3, 357, 4, 467, 5, 56, OR 57.
- 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

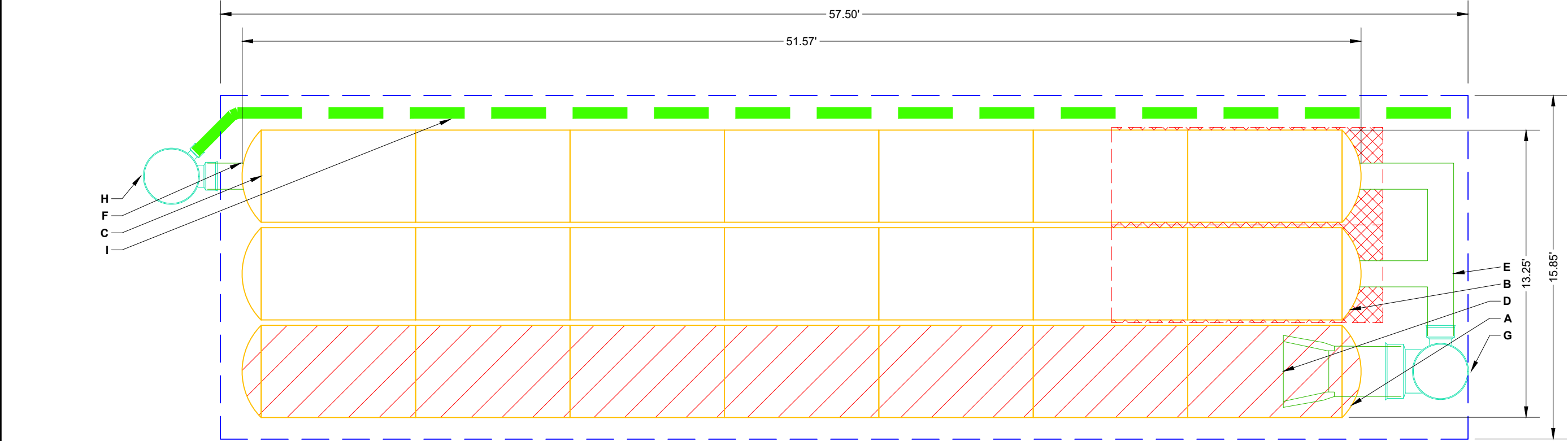
- STORMTECH SC-800 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
- THE USE OF CONSTRUCTION EQUIPMENT OVER SC-800 CHAMBERS IS LIMITED:
  - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
  - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
  - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
- FULL 36" (900 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 1-800-821-6710 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.



PROPOSED LAYOUT		PROPOSED ELEVATIONS		*INVERT ABOVE BASE OF CHAMBER				
				PART TYPE	ITEM ON LAYOUT	DESCRIPTION	INVERT*	MAX FLOW
21	STORMTECH SC-800 CHAMBERS	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	905.00					
6	STORMTECH SC-800 END CAPS	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	898.75	PREFABRICATED EZ END CAP	A	24" BOTTOM PREFABRICATED EZ END CAP, PART#: SC800ECEZ / TYP OF ALL 24" BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS	2.30"	
6	STONE ABOVE (in)	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	898.25	PRE-CORED END CAP	B	12" TOP PRE-CORED END CAP, PART#: SC800EPE12TPC / TYP OF ALL 12" TOP CONNECTIONS	14.40"	
15	STONE BELOW (in)	MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):	898.25	PRE-CORED END CAP	C	12" BOTTOM PRE-CORED END CAP, PART#: SC800EPE12BPC / TYP OF ALL 12" BOTTOM CONNECTIONS	1.60"	
40	STONE VOID	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	898.25	FLAMP	D	INSTALL FLAMP ON 24" ACCESS PIPE / PART#: SC80024RAMP		
2291	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED) (COVER STONE INCLUDED) (BASE STONE INCLUDED)	TOP OF STONE:	897.50	MANIFOLD	E	12" x 12" TOP MANIFOLD, ADS N-12	14.40"	
		TOP OF SC-800 CHAMBER:	897.00	PIPE CONNECTION	F	12" BOTTOM CONNECTION	1.60"	
		12" x 12" TOP MANIFOLD INVERT:	895.45	NYLOPLAST (INLET W/ ISO PLUS ROW)	G	30" DIAMETER (24.00" SUMP MIN)		4.6 CFS IN
		24" ISOLATOR ROW PLUS INVERT:	894.44	NYLOPLAST (OUTLET)	H	30" DIAMETER (DESIGN BY ENGINEER)		2.0 CFS OUT
911	SYSTEM AREA (SF)	12" BOTTOM CONNECTION INVERT:	894.38	UNDERDRAIN	I	6" ADS N-12 DUAL WALL PERFORATED HDPE UNDERDRAIN		
146.7	SYSTEM PERIMETER (ft)	BOTTOM OF SC-800 CHAMBER:	894.25					
		UNDERDRAIN INVERT:	893.00					
		BOTTOM OF STONE:	893.00					



- ISOLATOR ROW PLUS  
(SEE DETAIL)
- PLACE MINIMUM 12.50' OF ADSPLUS625 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

— — — — — BED LIMITS

**NOTES**

- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
- **NOT FOR CONSTRUCTION:** THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

HILLDALE PHASE 2 REVISED

MADISON, WI, USA

DATE: 07/29/2025

DRAWN: AK

PROJECT #:

CHECKED: N/A

StormTech®

Chamber System

4640 TRUEMAN BLVD  
HILLIARD, OH 43026  
1-800-733-7473

ADS

THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS BY STORMTECH UNDER THE DIRECTION OF THE PROJECT'S ENGINEER OF RECORD (EOR) OR OTHER PROJECT REPRESENTATIVE. THIS DRAWING IS NOT INTENDED FOR USE IN BIDDING OR CONSTRUCTION WITHOUT THE EOR'S PRIOR APPROVAL. EOR SHALL REVIEW THIS DRAWING FOR THE EOR'S RESPONSIBILITY OF THE EOR TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.

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2 OF 6

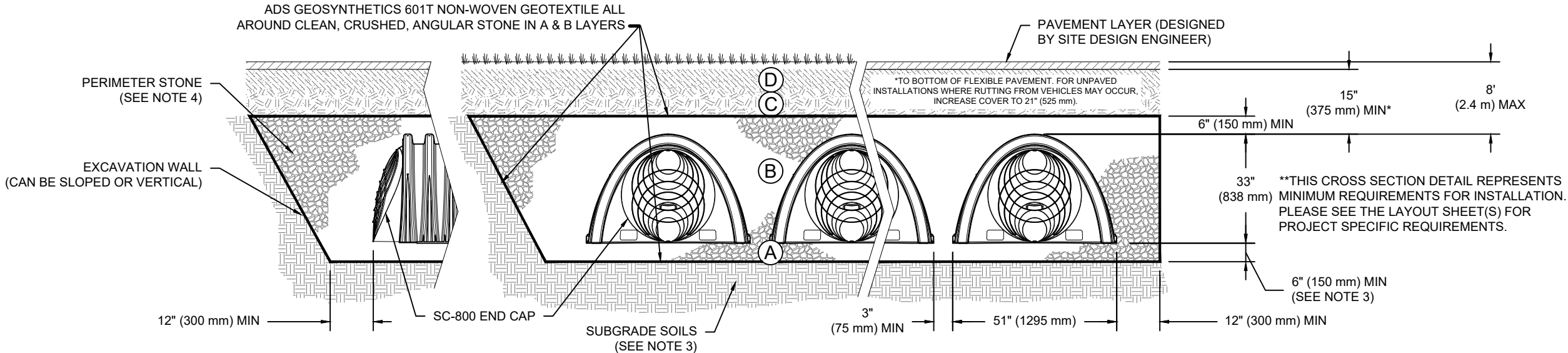


ACCEPTABLE FILL MATERIALS: STORMTECH SC-800 CHAMBER SYSTEMS

MATERIAL LOCATION		DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	<b>FINAL FILL:</b> 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.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	<b>INITIAL FILL:</b> FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 15" (375 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE.  MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 <sup>1</sup> A-1, A-2-4, A-3  OR  AASHTO M43 <sup>1</sup> 3, 357, 4, 467, 5, 56, 57, 6, 67, 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 (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	<b>EMBEDMENT STONE:</b> FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE <sup>5</sup>	AASHTO M43 <sup>1</sup> 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	<b>FOUNDATION STONE:</b> FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE <sup>5</sup>	AASHTO M43 <sup>1</sup> 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>2,3</sup>

PLEASE NOTE:

1. 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".
2. 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.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. 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 ENGINEER'S DISCRETION.
5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-800 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. 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. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
  - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
  - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
  - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 750 LBS/FT/%. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

HILLDALE PHASE 2 REVISED

MADISON, WI, USA

DATE: 07/29/2025

PROJECT #:

CHECKED: N/A

DATE

DWN

CHK

StormTech®

Chamber System

4640 TRUEMAN BLVD  
HILLIARD, OH 43026  
1-800-733-7473

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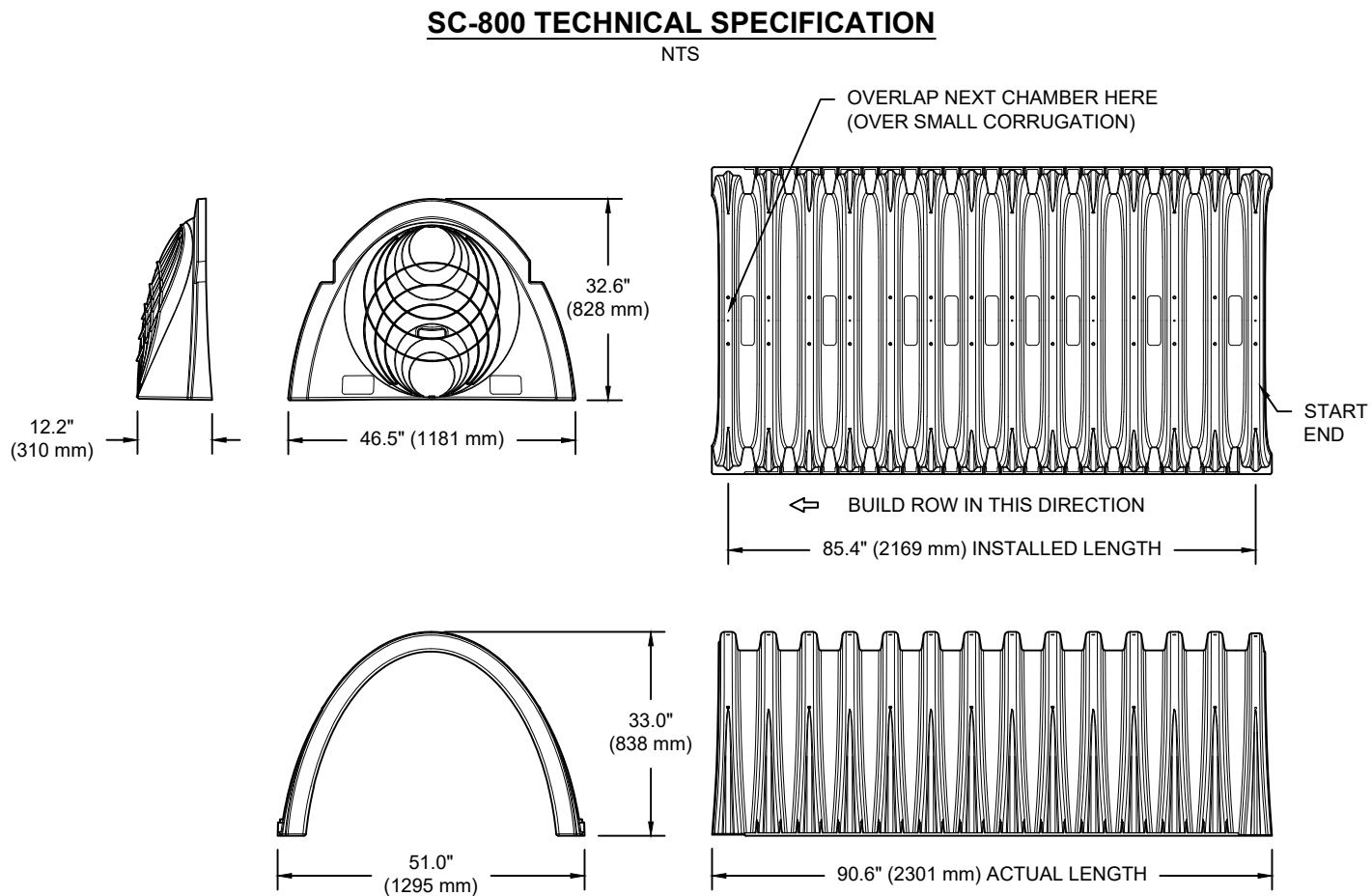
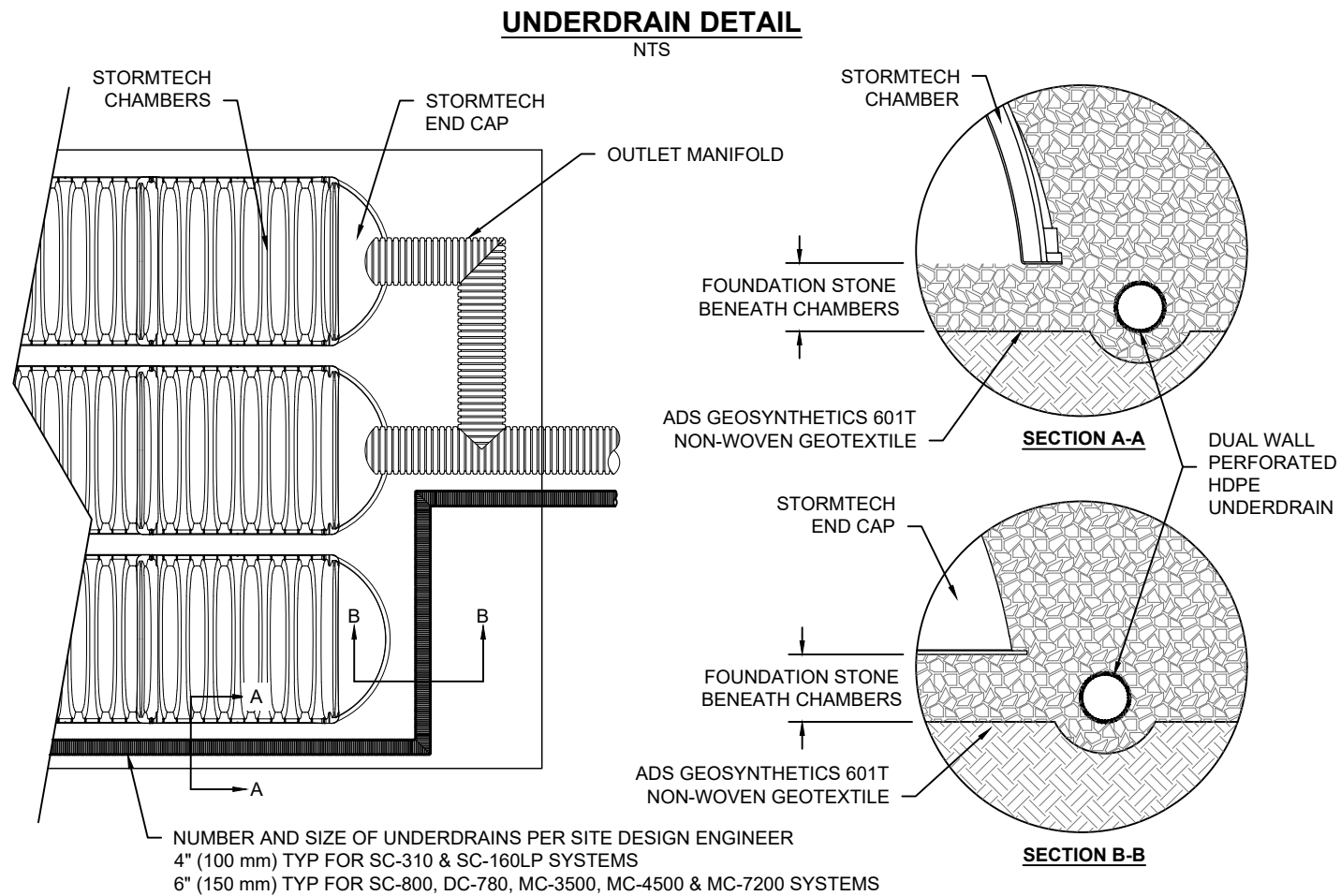
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**NOMINAL CHAMBER SPECIFICATIONS**

SIZE (W X H X INSTALLED LENGTH)	51.0" X 33.0" X 85.4"	(1295 mm X 838 mm X 2169 mm)
CHAMBER STORAGE	50.6 CUBIC FEET	(1.43 m³)
MINIMUM INSTALLED STORAGE*	78.4 CUBIC FEET	(2.22 m³)
WEIGHT	81.8 lbs.	(37.1 kg)

**NOMINAL END CAP SPECIFICATIONS**

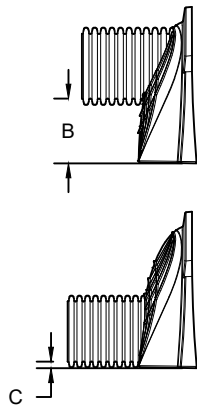
SIZE (W X H X INSTALLED LENGTH)	46.5" X 32.6" X 10.5"	(1181 mm X 828 mm X 267 mm)
END CAP STORAGE	3.4 CUBIC FEET	(0.09 m³)
MINIMUM INSTALLED STORAGE**	14.7 CUBIC FEET	(0.42 m³)
WEIGHT	15.7 lbs.	(7.1 kg)

\* ASSUMES 6" (150 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS, 3" (75 mm) BETWEEN CHAMBERS  
\*\*ASSUMES 6" (150 mm) STONE ABOVE AND BELOW END CAPS, 3" (150 mm) BETWEEN ROWS, 12" (300 mm) BEYOND END CAPS

PRE-CORED HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "BPC"  
PRE-CORED HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "TPC"

PART #	STUB	B	C
SC800EPE06TPC	6" (150 mm)	21.4" (544 mm)	---
SC800EPE06BPC		---	0.9" (23 mm)
SC800EPE08TPC	8" (200 mm)	19.2" (488 mm)	---
SC800EPE08BPC		---	1.0" (25 mm)
SC800EPE10TPC	10" (250 mm)	17.0" (432 mm)	---
SC800EPE10BPC		---	1.2" (30 mm)
SC800EPE12TPC	12" (300 mm)	14.4" (366 mm)	---
SC800EPE12BPC		---	1.6" (41 mm)
SC800EPE15TPC	15" (375 mm)	11.3" (287 mm)	---
SC800EPE15BPC		---	1.7" (43 mm)
SC800EPE18TPC	18" (450 mm)	8.0" (203 mm)	---
SC800EPE18BPC		---	2.0" (51 mm)
SC800EPE24BPC	24" (600 mm)	---	2.3" (58 mm)
SC800EPE	NONE	SOLID END CAP	

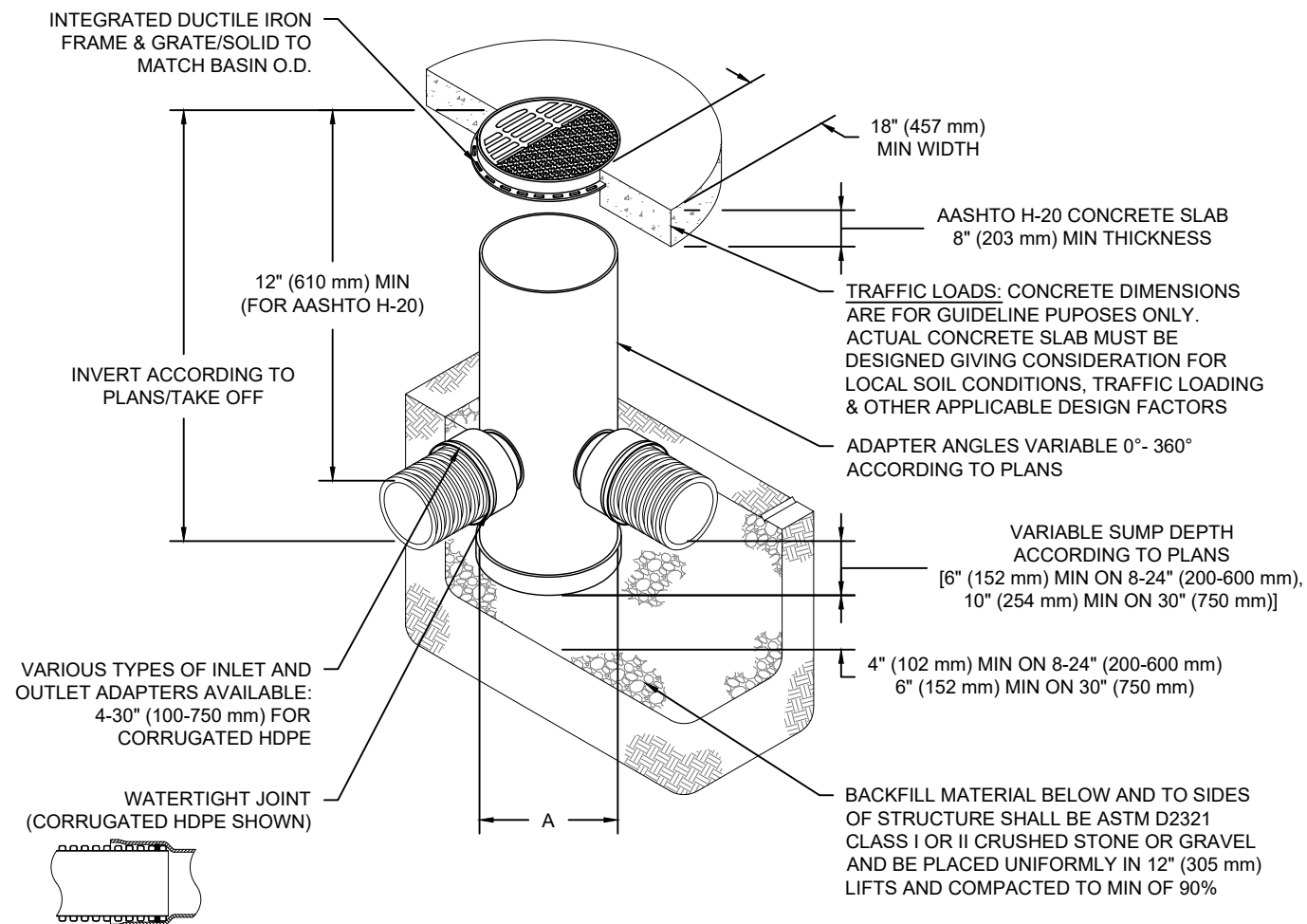
NOTE: ALL DIMENSIONS ARE NOMINAL





## NYLOPLAST DRAIN BASIN

NTS



# NOTES

1. 8-30" (200-750 mm) GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
2. 12-30" (300-750 mm) FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
3. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS
4. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC
5. FOR COMPLETE DESIGN AND PRODUCT INFORMATION: **WWW.NYLOPLAST-US.COM**
6. TO ORDER CALL: **800-821-6710**

A	PART #	GRATE/SOLID COVER OPTIONS		
8" (200 mm)	2808AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
10" (250 mm)	2810AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
12" (300 mm)	2812AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
15" (375 mm)	2815AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
18" (450 mm)	2818AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
24" (600 mm)	2824AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
30" (750 mm)	2830AG	PEDESTRIAN AASHTO H-20	STANDARD AASHTO H-20	SOLID AASHTO H-20

HILLDALE PHASE 2 REVISED

MADISON, WI, USA

DRAWN: AK

CHECKED: N/A

DRAWING IS NOT INTENDED FOR USE IN BIDDING OR CONSTRUCTION  
AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE

# Nyloplast®

4640 TRUEMAN BLVD  
HILLIARD, OH 43026  
-800-733-7473



SHEET

6 OF



EXTERIOR LUMINAIRE SCHEDULE															
TAG	DESCRIPTION	FIXTURE				COLOR TEMP	FIXTURE				POLE ASSEMBLY				
		LUMENS	WATTS	LAMP TYPE	DISTRIBUTION		MANUFACTURER	MODEL #	FIXTURES PER POLE	TOTAL WATTS	BASE ABOVE GRADE	POLE HEIGHT	HEIGHT ABOVE GRADE	MANUFACTURER	MODEL #
L1	LED SINGLE HEAD PARKING POLE MOUNTED FIXTURE	7,000	62	LED	TYPE 3	3500	SELUX	SACL-R3-SG700-35K-18-BK-UNV-DS	1	62	0' - 0"	14' - 0"		SELUX	A35-14-BK-BC5
L2-D	LED DOUBLE HEAD PARKING POLE MOUNTED FIXTURE	15,630	146	LED	TYPE 3	3000	LANDSCAPE FORMS	LE350-T3-HO-CLR-30K-UV-I-4B-NMS-BK	2	292	0' - 0"	25' - 0"	25' - 0"	LANDSCAPE FORMS	LE-25-A-NTW-NUT-BK
L2-S	LED SINGLE HEAD PARKING POLE MOUNTED FIXTURE	7,815	73	LED	TYPE 3	3000	LANDSCAPE FORMS	LE350-T3-HO-CLR-30K-UV-I-4B-NMS-BK	1	73	0' - 0"	25' - 0"	25' - 0"	LANDSCAPE FORMS	LE-25-A-NTW-NUT-BK
L3	LED SINGLE HEAD PARKING POLE MOUNTED FIXTURE	7,815	14	LED	TYPE 3	3000	SELUX	OLPL-F40-SBX-2G350-30-UNV-DS	4	56	0' - 0"	25' - 0"	25' - 0"	SELUX	
L5	LED TREE UPLIGHT ACCENT FIXTURE	600	9	LED		3000	KICHLER	16020-BKT-30							
L6	LED BOLLARD FIXTURE	424	40	LED		3000	FORMS+SURFACES	HELIO SERIES 600							
L7	LED COMPACT DOWNLIGHT	583	7	LED		3000	BEGA	55842-K3-BK-10043							
LE-1	LED EXTERIOR DOWNLIGHT	600	9	LED		3000	JUNO	IC1LED-4-G-06LM-30K-90CRI							
SL-1	LED EXTERIOR SCENCE	1,124	15	LED		3000	EUREKA	3450-LED HO-30-277V-DV-BLKE							
SL-1(E)	LED EXTERIOR SCENCE	1,124	15	LED		3000	EUREKA	3450-LED HO-30-277V-DV-BLKE							
SL-2	LED EXTERIOR SCENCE	1,124	15	LED		3000	EUREKA	3450							
SL-3	LED EXTERIOR CYLINDER	2,400	30	LED		3000	ALCON	11240-2-BK (NO UP LIGHT)							

SITE ILLUMINANCE RESULTS - 100					
Calculation Points Name	Average	Maximum	Minimum	Avg/Min	Max/Min
KELAB DRIVE	1.3 fc	3.8 fc	0.1 fc	13.7	39.5
BLDG 100 PED WALKWAY	1.1 fc	2.9 fc	0.1 fc	14.5	39.8

1. ALL LIGHT SOLID LINES APPROXIMATELY INDICATE EXISTING DEVICES TO REMAIN, UNLESS INDICATED OTHERWISE. LIGHT SOLID SHADED AREA INDICATES AREA TO REMAIN AS IS.
2. ALL HEAVY SOLID LINES APPROXIMATELY INDICATE NEW DEVICES TO BE PROVIDED.
3. WIRING SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL CODES, INCLUDING PROVISION OF EQUIPMENT GROUNDING AS REQUIRED BY THE NEC.
4. POWER CONDUCTORS SHALL BE SIZED PER THE NEC AMPACITY TABLES (ARTICLE 310), INCLUDING ADJUSTMENT FACTOR AND NEUTRAL CONDUCTOR REQUIREMENTS (FEED AND BRANCH NEUTRAL CONDUCTORS MUST BE COUNTED AS CURRENT CARRYING CONDUCTORS), RUN SEPARATE NEUTRAL CONDUCTORS FOR ALL LIGHTING CIRCUITS.

(KEYED NOTES PER PROJECT)

X3 EXISTING SITE LIGHTING SOUTH OF KELAB DRIVE SHALL BE EXISTING TO REMAIN.



1 SITE PLAN - PHOTOMETRIC  
ES100 SCALE: 1" = 20'-0"



milwaukee | madison | green bay | denver | atlanta

ENGINEERING, INC.

5525 NOBEL DRIVE  
SUITE 110  
MADISON, WI 53711  
PH: 608.277.1728 FAX: 608.271.7046  
JDR PROJECT NO: 22.0261

HILLDALE BUILDING  
100

## ISSUANCE AND REVISIONS

DATE	DESCRIPTION
------	-------------

## KEY PLAN

**PROGRESS DOCUMENTS  
NOT FOR CONSTRUCTION**

These documents reflect progress and intent and may be subject to change, including additional detail. These are not final construction documents and shall not be used for final bidding or construction-related purposes.

PROJECT MANAGER JR

PROJECT NUMBER 719494-01

## SITE PLAN - PHOTOMETRIC

# ES100

2022 Eppstein Uhen Architects, Inc.





# Hilldale Development

08.01.2025

**REALM**  
COLLABORATIVE

Site Experience Design &  
Landscape Architecture

**WS**

Owner &  
Developer



# UNIT PAVING - WAUSAU

VEHICULAR GRADE UNIT PAVER

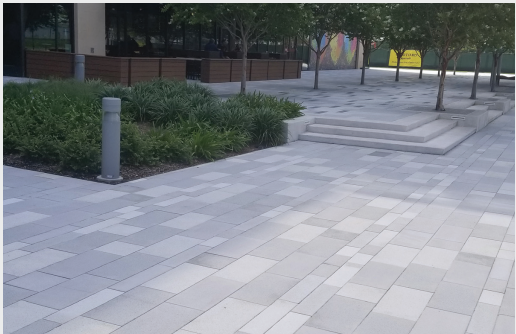


### TECHNICAL ADVANTAGES

- Industry leading strength - 9,500 psi
- Paver thicknesses from 1 5/8" – 4" thick
- Spacing lugs on the pavers for ease of installation
- Quick Ship program available



Eisenhower Recreation Center | The Villages, FL | Frontier Pavers

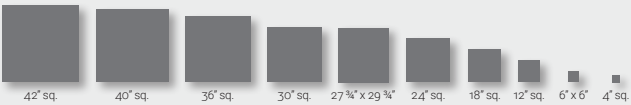


Rosemary Square | West Palm Beach, FL | Estate Pavers

### STANDARD SIZES

Pavers range in thickness from 1 5/8" - 4" depending on the size. Each Wausau Tile paver series is also available in a variety of standard and custom plank-style paver sizes.

#### SQUARES



#### RECTANGLES



#### PLANKS



#### GEOMETRIC



### TECHNICAL INFORMATION

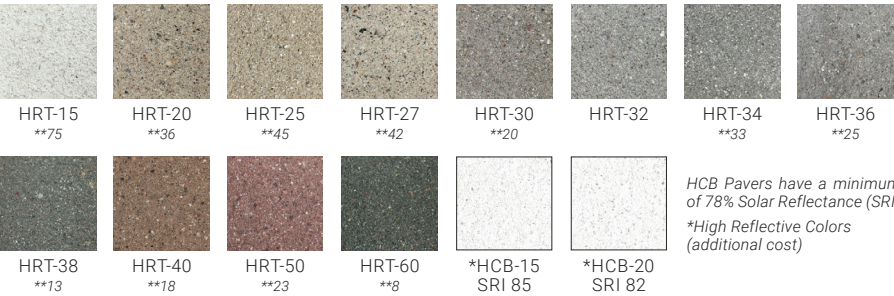
PROPERTY	ADVANCED TESTING VALUE	TEST METHOD
Compressive Strength	> 9,500 PSI avg. with no individual unit less than 8,000 PSI	ASTM C 140
Water Absorption	< 4.5%	ASTM C 140
Flexural Strength	> 1,800 pounds average	ASTM C 140
Freeze/Thaw	< 1% loss of dry weight (100 cycles)	ASTM C 1262
Center Load	2,000 lbs.	WTCL 99

Testing based on 24"x24"x2" pressed paver

WausauTile.com | 800.999.8700

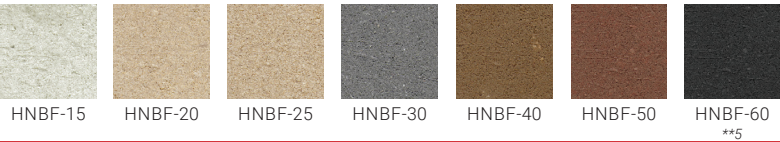


### ESTATE

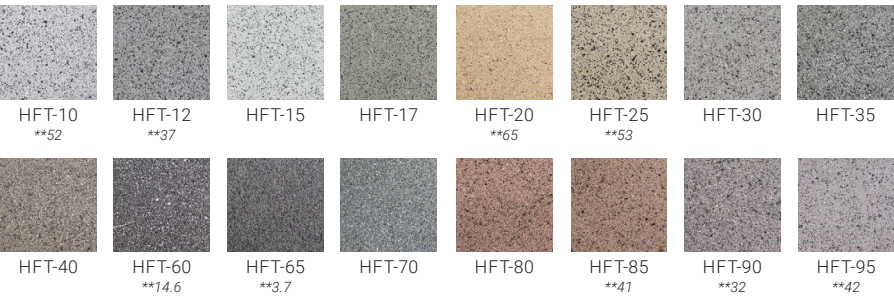


HCB Pavers have a minimum of 78% Solar Reflectance (SRI)  
\*High Reflective Colors (additional cost)

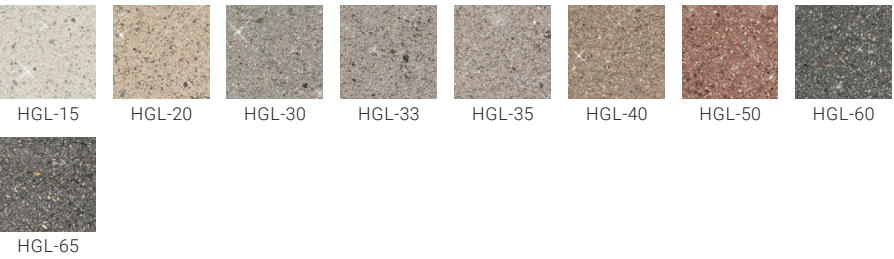
### ESTATE II



### FRONTIER



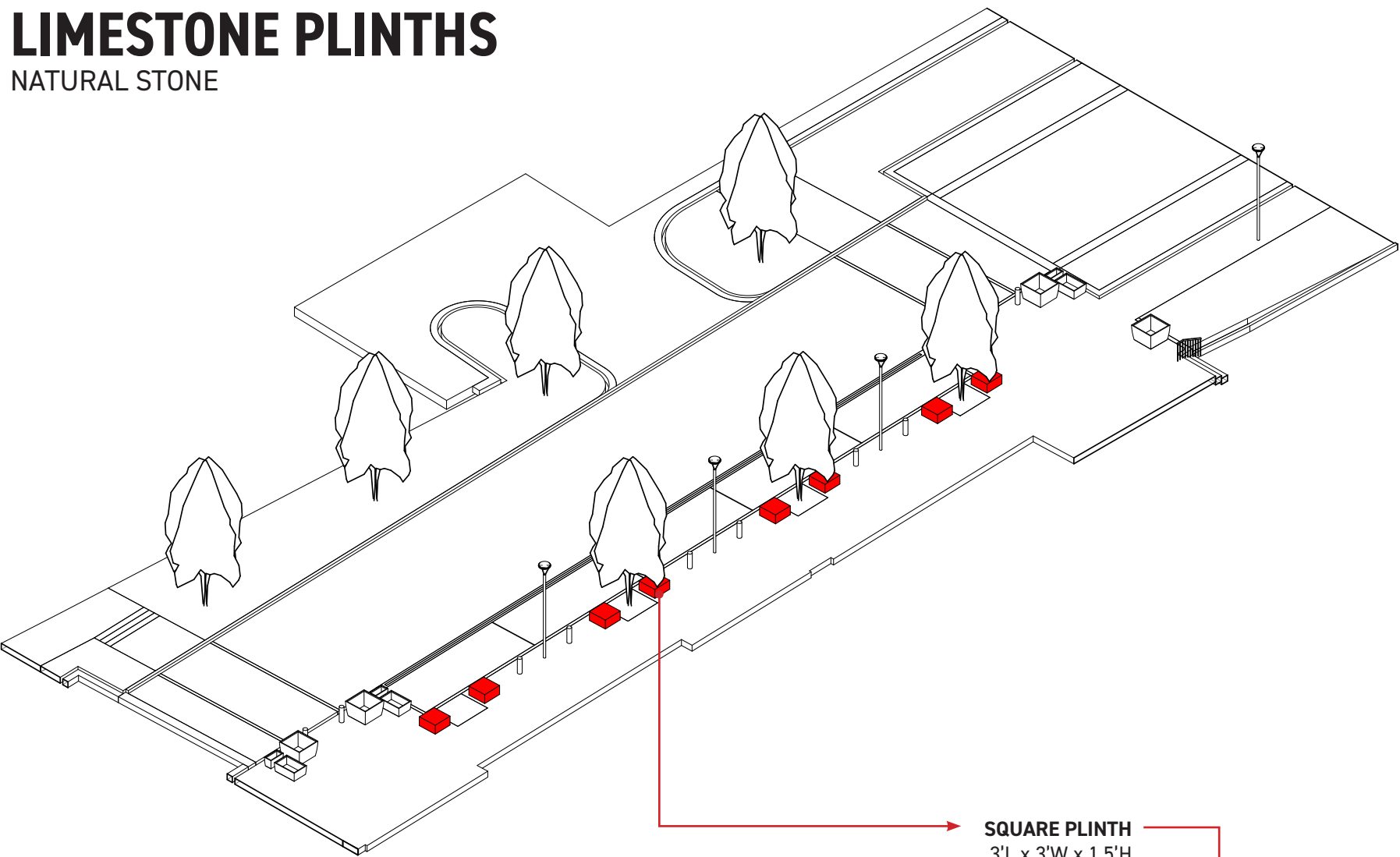
### GALAXY



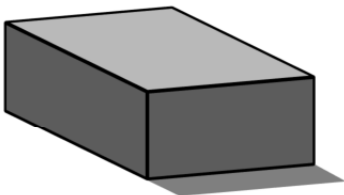


# LIMESTONE PLINTHS

NATURAL STONE



**SQUARE PLINTH**  
3'L x 3'W x 1.5'H



**MATERIAL**  
The stone plinths are thought to be limestone elements cut to shape with a smooth tops and rock-faced vertical faces.



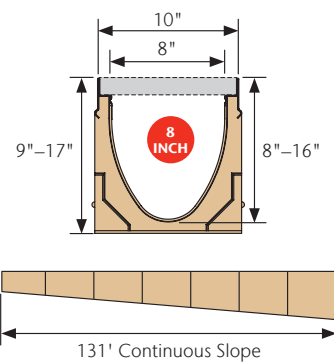
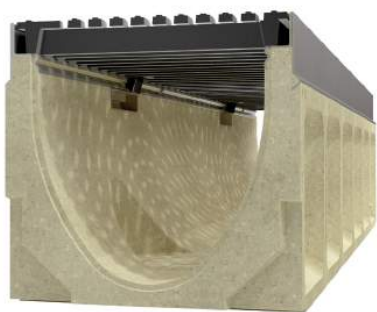


# TRENCH DRAIN

## 8" KLASSIK DRAIN

### KlassikDrain K200/KS200

8" Internal Width General Purpose System



K200 is an 8" wide system with galvanized steel edge rail and wide choice of grates in different materials and slot styles up to Load Class E (60 ton) featuring either patented DrainLok or QuickLok® boltless locking systems.

KS200 is the same system, but the edge rail is grade 304 stainless steel. KS200 should be used where increased aesthetics are required, or where increased corrosion resistance is required.

#### KLASSIKDRAIN K200/KS200 SELECTION CRITERIA

	Light to industrial duty loads
	Product can be used towards LEED & EPA requirements
	Resistant to many everyday chemicals
	Multiple grate options to meet legal requirements
	Multiple grate options to meet design requirements
	Increased hydraulic capacity
	Constant depth and/or sloped depth channels

#### Typical Applications:

- Parking lots & garages
- Shopping malls
- Pedestrian areas
- Light industrial areas
- Commercial areas
- Internal applications



ACO DRAIN  
KlassikDrain K200/KS200

#### ACO DRAIN

### Type 676D Longitudinal ductile iron grate (ADA)



#### Product Features

- Certified to EN 1433 Load Class C - 56,000 lbs - 967 psi
- Uses 'DrainLok' boltless locking system
- Suitable for use with K200, KS200, and H200K-13 channels
- Manufactured from ductile iron to ASTM A 536-84 - Grade 65-45-12
- E- coated for improved resistance against rust
- Complies with ADA - American Disabilities Act of 1990 Section 4.5.4
- Complies with ASME: A112.6.3 - 2001: Section 7.12 Heel Resistant Strainers and Grates
- Bicycle Tire Penetration Resistant to AS 3996 - 2006



#### Specifications

##### General

The surface drainage system shall be ACO Drain K200, KS200, and H200K-13, channels\*, complete with ACO Type 676D longitudinal ductile iron grate with 'DrainLok' locking as manufactured by ACO Polymer Products, Inc. or similar approved.

##### Materials

The covers shall be manufactured from ductile iron and have **minimum** properties as follows:

- **Independently certified to meet Load Class C to EN 1433 - 56,000 lbs - 967 psi**
- **Ductile iron to ASTM A 536-84 - Grade 65-45-12**
- **Intake area of 35.8 sq. in. (23.096 cm²) per half meter of grate**

The overall width of 9.41" (239mm) and overall length of 19.69" (500mm). Slots measure at a maximum of 0.24" (6mm) by 2.07" (52.57mm).

##### Installation

The trench drain system and grates shall be installed in accordance with the manufacturer's installation instructions and recommendations.

\* delete as appropriate

ACO Specification Information



# BOLLARDS

## DECORATIVE

### Forms + Surfaces

PRODUCT DATA  
HELIO™ BOLLARD, SERIES 600

Helio Bollards, Series 600 bring an elegant simplicity to public spaces of all kinds. Constructed of stainless steel, fixtures 6" in diameter are available in illuminated and non-illuminated variations with or without an optional embedded security core. Illuminated bollards feature a frosted acrylic lens, 180° or 360° light distribution, and Cree® LEDs in 3000K warm white and 4000K neutral white. Helio Bollards with 3000K LEDs are approved by the International DarkSky Association to minimize light pollution. For expanded performance, the Helio Family also includes security bollards in other sizes and security rating options, all in illuminated and non-illuminated designs.

MATERIAL & CONSTRUCTION DETAILS

CONFIGURATIONS	LED LAMPS & DRIVER	INSTALLATION & MAINTENANCE
<ul style="list-style-type: none"><li>Series 600 Helio Bollards are 40" high x 6" in diameter.</li><li>Illuminated bollards are available with 180° and 360° light distribution options.</li><li>Non-illuminated versions are also available.</li><li>Helio Bollards, Series 600, are available with an optional embedded security core that accommodates two mounting styles: deep set mounting achieves an S10-P1 security rating; shallow mounting achieves an SC30-P1 security rating.</li></ul>	<ul style="list-style-type: none"><li>Custom LED light engine with Cree® LEDs.</li><li>3000K warm white and 4000K neutral white color temperatures.</li><li>424 lumen output.</li><li>Less than 5% upward lumen output.</li><li>LED driver input voltage is 120-277VAC, -30°C minimum starting temperature.</li><li>Driver has reverse-phase, forward-phase, and 0-10V dimming capabilities.</li><li>LED driver certifications include: IP66 (waterproof) enclosure, and Class 2 rated output (UL8750).</li></ul>	<ul style="list-style-type: none"><li>Standard mounting is surface mount.</li><li>Security bollards with embedded security cores are available for an upcharge and can use either of two mounting styles: deep set or shallow mount.</li><li>Installation of a surge protector as part of each unit's wiring is recommended.</li><li>Stainless steel mounting hardware sold separately. Templates are available upon request.</li><li>See pages 2-4 for more information</li></ul>
MATERIALS & FINISHES	MAINTENANCE	
<ul style="list-style-type: none"><li>Illuminated bollards have a tubular stainless steel column, frosted acrylic lens, and a stainless steel head cap.</li><li>Non-illuminated bollards are tubular stainless steel with welded stainless steel cap.</li><li>Stainless steel is standard with a Satin finish and Ceramiloc treatment. See below for details.</li><li>For optional powdercoat colors see the Forms+Surfaces Powdercoat Chart. Custom RAL colors are available for an upcharge.</li></ul>	<ul style="list-style-type: none"><li>Metal surfaces can be cleaned as needed using a soft cloth or brush with warm water and a mild detergent. Avoid abrasive cleaners.</li></ul>	

CERAMILOC TREATMENT

Ceramiloc is an invisible surface treatment that offers significantly enhanced protection from weather and graffiti and increases the maintenance ease of stainless steel. Ceramiloc combines ceramic durability with an unparalleled ability to lock out water spots, fingerprints, graffiti and more. Patented technology bonds nano-silica particles to the surface of the stainless steel. The treatment minimally alters the surface appearance of the stainless and offers numerous benefits:

- Easily Cleaned:** The Ceramiloc treatment creates a surface that simultaneously resists fingerprints and is easy to clean. Water spots, grease marks and more can be quickly wiped away. It also creates an "anti-graffiti" surface – even permanent marker is easily removed with a clean microfiber towel and water.
- Durable:** Ceramiloc-treated materials are corrosion- abrasion- and scratch-resistant. The treatment is permanent, UV stable, and will not degrade or discolor over time. Salt spray testing per ASTM B117 showed no change after 240 hours.
- Environmentally Sound:** The Ceramiloc treatment is a no-VOC, water-based process. Because Ceramiloc surfaces are so easily maintained, cleaning solutions and maintenance are kept to a minimum.

LIGHT ENGINE DESCRIPTIONS

LED ENGINE	LIGHT DISTRIBUTION	DESCRIPTION	LUMINAIRE LUMENS*	B.U.G. RATINGS
3000K LED	360°	50W LED driver	424	B0-U1-G0
4000K LED	360°	50W LED driver	424	B0-U1-G0
3000K LED	180°	30W LED driver	158	B0-U1-G0
4000K LED	180°	30W LED driver	158	B0-U1-G0

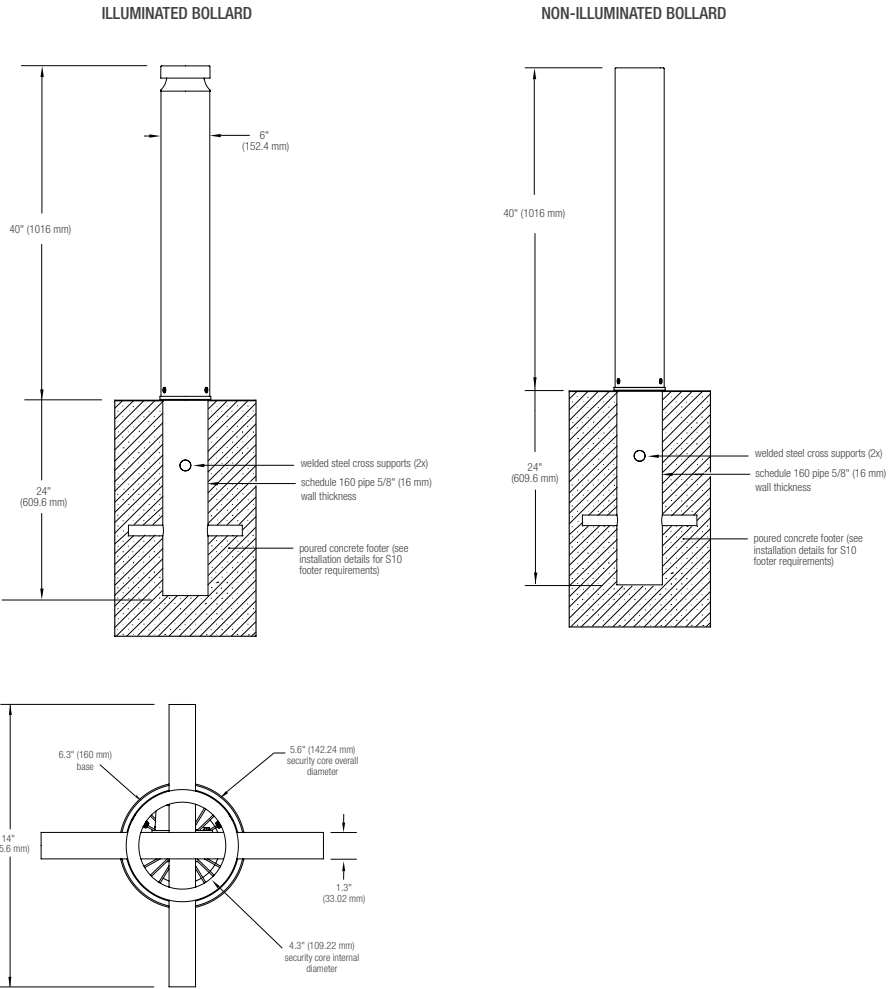
\*Luminaire lumens represents the absolute photometry for the luminaire, and indicates the lumens out of the entire fixture.

NOTE: Polar candela and isofootcandle plots can be found on the Helio Bollard, Series 600 product page on our website.

### Forms + Surfaces

PRODUCT DATA  
HELIO™ BOLLARD, SERIES 600

DEEP SET EMBEDDED S10-P1 SECURITY CORE





# LIGHTING

## MATCH EXISTING STREET LIGHTING

Date: \_\_\_\_\_ Customer: \_\_\_\_\_

Project: \_\_\_\_\_

Type: \_\_\_\_\_ Qty: \_\_\_\_\_

Saturn Cutoff LED



Order Code: SACL \_\_\_\_\_

Pole Order Code:	Series	Height	Finish	Options					
SACL	Series	SACL Saturn Cutoff LED							
	Optics	R1 Type I	R2 Type II	R3 Type III	R3W Type III (Wide)	R4 Type IV	R5R Type V (Round)	R5S Type V (Square)	R5Q Type V (Rectangular)
	Mounting	1 Single	1A Single Arm Mount	2 Double	W Wall Mount				
	Light Engine	5G450 39W/4442lm	5G700 62W/6644lm	5G105 93W/9241lm		*Based on R1 distribution in 3000K CCT.			
	CCT	27* 2700K	30* 3000K	35* 3500K	40 4000K	50* 5000K	¹DarkSky approved. ²For other CCTs please consult factory.		
	Power Cord Length	08 8 ft	10 10 ft	12 12 ft	14 14ft	16 16 ft	18 18 ft	XX² XX	³For 1 mounting use the pole height. For 1A or 2 mounting use the pole height x2. ⁴Specify number of feet in whole foot increments.
	Finish	WH White	BK Black	BL Semi-Matte Black	BZ Bronze	SV Silver	SP Specify Premium Color		
	Voltage	UNV 120V-277V	120 120V	240 240V	277 277V	347³ 347V	480³ 480V		⁵Equipped with step-down transformer.
	Options	DM⁵ Dimming (0-10V)	HS⁴ House Side Shield (180°)	HL30⁵,⁶ Hi-Lo Switching Low Output 30%	HL50⁵,⁶ Hi-Lo Switching Low Output 50%	PCT⁷ Photocell Tenon	MS⁵,⁷ Pole Motion Sensor with Optional Photocell (See page 3 for order code)		⁶Type I, II, III, and IV only. ⁷DM, HLXX, or MS only. Cannot be combined. ⁸120V, 240V, or 277V only. ⁹PCT or MS only. Cannot be combined.

Product Modifications

Please list modification requirements for review by factory:

Approvals

Date:

MFR: SELUX



# BIKE RACK

## MATCH EXISTING BIKE RACKS

selux



The Opal bike rack will park your bikes safely and securely. The Opal offers bikes two distinct contact points for secure locking. Each Opal bicyclerack can park two bikes. This bike rack is a simple, modern design and provides an excellent and stylish choice for any outdoor space where bike parking is needed.

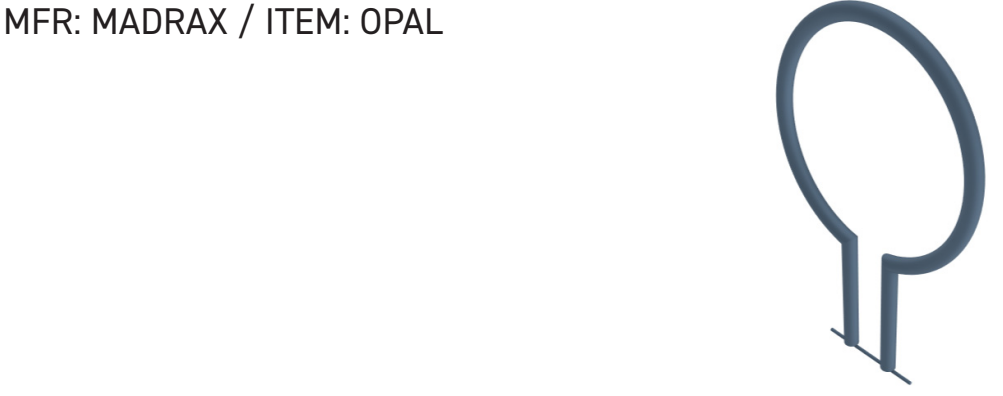
Item #: OPR -2- \_\_\_\_\_ - \_\_\_\_\_

MOUNT FINISH

MFR: MADRAX / ITEM: OPAL



800.442.7021



# PLANTERS

## SELECTION

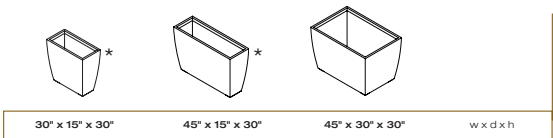
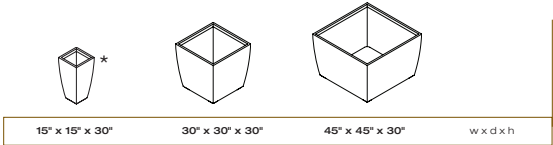
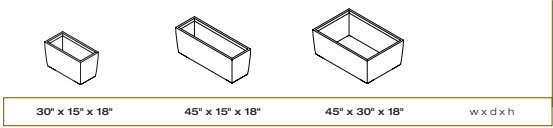
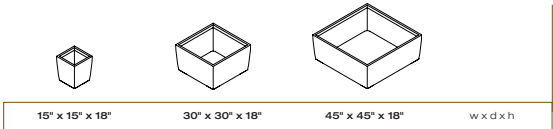
### Sorella Specifications

Sorella planters may be specified in powdercoated metal. Planters available in rectangle or square shapes, in 18" and 30" heights.

Fabricated, welded and ground steel panels attach to a polyethylene base, with glides and optional drain holes.

Planter bases and glides are compression-molded recycled plastic resulting from an innovative, patented melting process that utilizes 100% post-consumer and post-industrial waste. This unique process blends several material types, channeling more discarded plastics away from the landfill and into new life. Bases are 100% recyclable.

Planters are freestanding, with the exception of those noted below.



\* Planters must be surface mounted.

and elevate the quality of public space. High quality products and outstanding customer experience makes us one of the world's premier designers and manufacturers of outdoor commercial furnishings.



### Finishes

All metal is finished with Landscape Forms' proprietary Pangard II® polyester powdercoat, a hard yet flexible finish that resists rusting, chipping, peeling and fading. A wide range of standard, optional and custom colors are available.

### To Specify

Select Sorella planter, product description and size. Select powdercoat metal color. Specify with or without drain holes.

### landscapeforms.com

Visit our website for product details, color charts, technical sheets, sales office locations. Download JPG images, brochure PDF, CAD details, CSI specifications.

Sorella is designed by Robert Chipman, ASLA. Specifications are subject to change without notice. Sorella is manufactured in the U.S.A. Landscape Forms supports the Landscape Architecture Foundation at the Second Century level. ©2015 Landscape Forms, Inc. Printed in U.S.A.

landscapeforms®

MFR: LANDSCAPEFORMS / ITEM: SORELLA



STREET TREE

Platanus x acerifolia 'Morton Circle'

SHRUB

Ribes alpinum

ORNAMENTAL GRASS

Panicum virgatum 'Shenandoah'



EXCLAMATION LONDON PLANETREE



ALPINE CURRANT



SHENANDOAH SWITCH GRASS



PROJECT INFORMATION

HILLDALE  
BUILDING 100

HILLDALE  
MADISON

702 N Midvale Blvd  
Madison, WI 53705

ISSUANCE AND REVISIONS

DATE	DESCRIPTION
08-01-2025	CITY SUBMITTAL

KEY PLAN

SHEET INFORMATION

PROJECT MANAGER REALM

PROJECT NUMBER 2021-03

MATERIALS PLAN

**L100A**

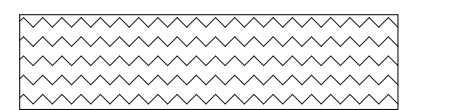
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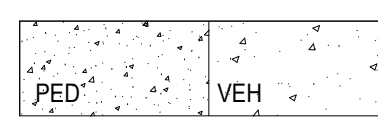
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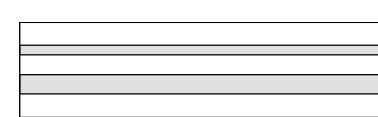
A



**MULCH**  
- FINELY SHREDDED HARDWOOD MULCH  
- DEPTH: 2" DEEP



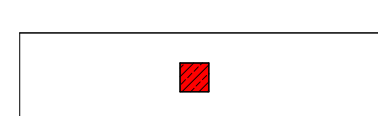
**CONCRETE PAVING**  
- PEDESTRIAN & VEHICULAR AREAS  
- SAW CUT AND SEALED JOINTS  
- COLOR: NATURAL



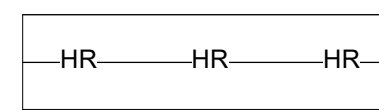
**FLUSH CURB**  
- VEHICULAR AREAS  
- LIGHT BROOM FINISH



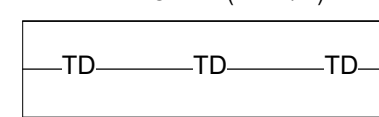
**CONCRETE UNIT PAVING - TYPE 1 (NON-PERMEABLE)**  
- MFR: WAUSAU TILE WWW.WAUSATILE.COM  
- PRODUCT: H SERIES (12" X 3" X 4")  
- COLOR: FRONTIER FINISH FROM MFR FULL RANGE  
- NON-PERM BASE: CONCRETE SUBSLAB ON AGGREGATE BASE  
- STABILIZED SAND JOINTS



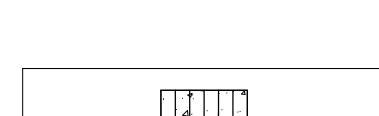
**LIMESTONE PLINTHS**  
- PER PLAN X 18" HT LIMESTONE  
- COLOR: GREY RANGE



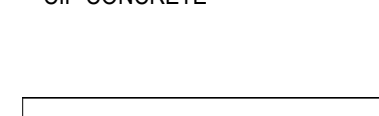
**HANDRAILING**  
- POWDER COATED STEEL, BLACK  
- FLAT BAR STEEL (2" X 1/2")



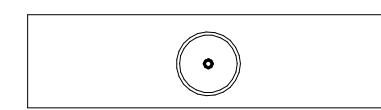
**TRENCH DRAIN**  
- MFR: ACO DRAIN  
- PRODUCT: KS9/ KS50 2"



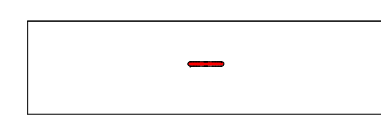
**STAIRS**  
- CIP CONCRETE



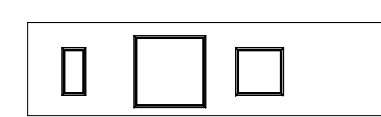
**BOLLARD**  
- MFR: FORMS AND SURFACES  
WWW.FORMS-SURFACES.COM  
- PRODUCT: HELIO SERIES 600  
- MATERIAL: STAINLESS STEEL



**LIGHTING**  
- POLE LEVEL LIGHTING  
- SEE ELECTRICAL DRAWINGS



**BIKE RACK**  
- MFR: MADRAX WWW.MADRAX.COM  
- PRODUCT: OPAL  
- MATERIAL: STAINLESS STEEL WITH POWDERCOAT PAINT



**PLANTERS**  
- VARIOUS SIZES, BY OWNER

EXISTING PARKING LOT

EXISTING PARKING LOT

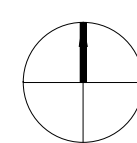
BUILDING 100

BUILDING 100

HEATHER CREST DRIVE

PRICE PLACE

SCALE: 1" = 20'-0"  
0' 10' 20' 40'





PROJECT INFORMATION

HILLDALE  
BUILDING 100

HILLDALE  
MADISON

702 N Midvale Blvd  
Madison, WI 53705

ISSUANCE AND REVISIONS

DATE	DESCRIPTION
08-01-2025	CITY SUBMITTAL

KEY PLAN

SHEET INFORMATION

PROJECT MANAGER REALM

PROJECT NUMBER 2021-03

PLANTING PLAN

L100B

E

D

C

B

A

E

D

C

B

A

DECIDUOUS TREES	
PA	<b>PLATANUS X ACERIFOLIA 'MORTON CIRCLE'</b> EXCLAMATION LONDON PLANE - SIZE: 3.5" CAL. - CONDITION: B+B - MATCHED SPECIMEN - TAGGED BY LANDSCAPE ARCHITECT
SHRUBS	
RI	<b>RIBES ALPINUM</b> ALPINE CURRANT - SIZE: 15-20" - CONDITION: NO. 5 CONT.
PERENNIALS + GRASSES	
PV	<b>PANICUM VIRGATUM 'SHENANDOAH'</b> SHENANDOAH SWITCH GRASS - SIZE: NO. 2 CONT. - MATCHED SOURCE
GROUND COVERS	
LAWN	LAWN

SCALE: 1" = 20'-0"

