

Sandy Pines Park

"Initial Phase"

2301 21st Ave NE, Hickory, North Carolina 28601

Consultants

Landscape Architect



benesch

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Architect



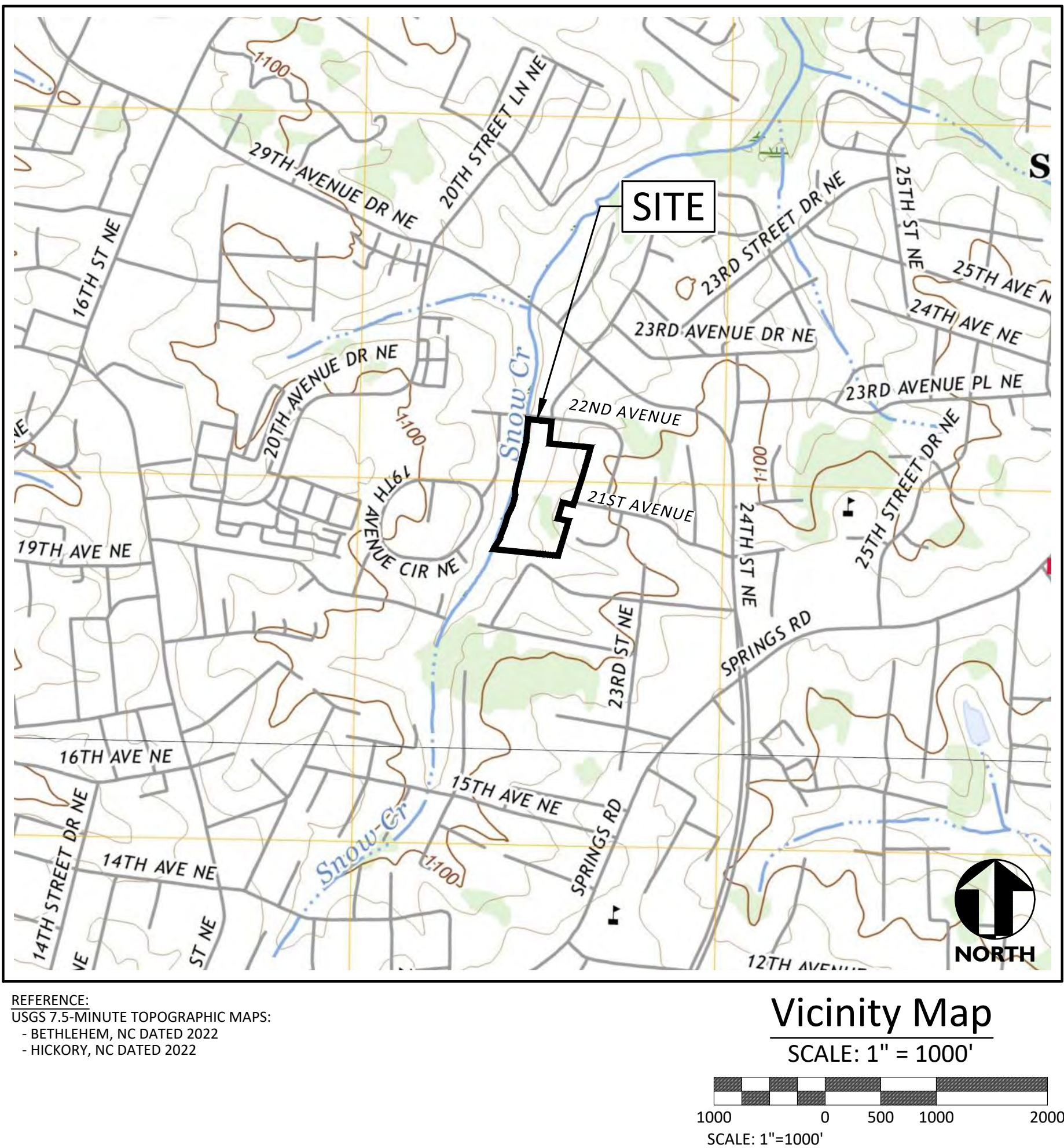
CBSA architects

CBSA Architects
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Hickory, NC 28601
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P 828.322.3403



Life. Well Crafted.

76 North Center Street
Hickory, NC 28601
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Schedule of Drawings

SHEET NO.	TITLE
C000	COVER SHEET
BC1.0	APPENDIX B
A1.0	RESTROOM FLOOR PLAN SCHEDULES
A2.0	SCHEDULES
A3.0	BUILDING ELEVATIONS
S1	SURVEY
C100	EXISTING CONDITIONS AND DEMOLITION PLAN
C200	SITE PLAN
C300	EROSION CONTROL NOTES
C301	INITIAL EROSION CONTROL PLAN
C302	FINAL EROSION CONTROL PLAN
C303	GRADING AND DRAINAGE PLAN
C400	UTILITY PLAN
C500	DETAILS
C501	DETAILS
C502	DETAILS
C503	DETAILS
C504	DETAILS
C505	DETAILS
C506	DETAILS
C600	LANDSCAPE PLAN
C601	LANDSCAPE NOTES AND DETAILS
P1	RESTROOM FLOOR PLAN PLUMBING, SPECIFICATIONS, SCHEDULE
E1	SPECIFICATIONS SCHEDULES APPENDIX B RR FL PLAN - ELECTRICAL
E2	SITE PLAN ELECTRICAL

Revisions:

Date of Issue: 07/17/2026 Set No.:_____

BID DOCUMENTS

G:\2025-004 - COH Sandy Pines Park - Benesch\Drawings\001 SCHAL Plan_11426.dwg

2018 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(Except 1 and 2 - Family Dwellings and Townhouses)

Name of Project: SANDY PINES PARK "INITIAL PHASE"
Address: 2301 21ST AVENUE NE, HICKORY, NORTH CAROLINA Zip Code 28601
Proposed Use: PARK & RESTROOM
Owner or Authorized Agent: JON WOOD / BENESCH Phone: 704-943-3185 Email jwood@benesch.com
Owned By: ☒ City/County ☐ Private ☐ State
Code Enforcement Jurisdiction: ☒ City HICKORY ☒ County CATAWBA ☐ State

CONTACT MARTY BEAL / CBSA ARCHITECTS
DESIGNER FIRM NAME LICENSE # TELEPHONE # EMAIL
Architectural CBSA ARCHITECTS MARTY A. BEAL 5409 828-322-3403 mbeal@cbsa-architects.com
Civil BENESCH MORGAN R. WOOLNER 53444 704-943-3172 mwoolner@benesch.com
Electrical BRITTAIN ENGINEERING DON BRITTAIN 7883 828-328-1813 dbrittain@brittainengineering.com
Fire Alarm
Plumbing BRITTAIN ENGINEERING DON BRITTAIN 7883 828-328-1813 dbrittain@brittainengineering.com
Mechanical BRITTAIN ENGINEERING DON BRITTAIN 7883 828-328-1813 dbrittain@brittainengineering.com
Sprinkler-Standpipe

Structural SEE PRECAST CONCRETE SHOP DRAWINGS
Retaining Wall >5' High
Pool Design

2018 NC BUILDING CODE: ☒ New Building ☐ Shell / Core ☐ 1st Time Interior Completions
☐ Addition ☐ Phased Construction - Shell Core

2018 NC EXISTING BUILDING CODE: ☐ Prescriptive ☐ Alteration Level I ☐ Historic Property
☐ Repair ☐ Alteration Level II ☐ Change of Use
☐ Chapter 14 ☐ Alteration Level III

CONSTRUCTED: (Date) CURRENT OCCUPANCY(S) (CH. 3)
RENOVATED: (Date) PROPOSED OCCUPANCY(S) (CH. 3) --

OCCUPANCY CATEGORY (Table 1604.5): Current: Proposed: --

BASIC BUILDING DATA:
Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A
☐ I-B ☒ II-B ☐ III-B ☐ V-B
Sprinklers ☒ No ☐ Partial ☐ Yes NFPA 13 NFPA 13R NFPA 13D
Standpipes: ☒ No ☐ Yes Class ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Primary Fire District: ☒ No ☐ Yes Flood Hazard Area: ☒ No ☐ Yes
Special Inspections Required: ☒ No ☐ Yes

GROSS BUILDING AREA TABLE			
Floor	Existing (SQ FT)	New (SQ FT)	Sub-Total
Covered Porches	--	--	--
2nd Floor	--	--	--
1st Floor	--	130	130
Basement	--	--	--
TOTAL	--	130	130

ALLOWABLE AREA

Primary Occupancy Classification(s):
Assembly ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☒ A-5
Business ☐
Educational ☐
Factory ☐ F-1 Moderate ☐ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional ☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4
I-1 Condition ☐ 1 ☐ 2
I-2 Condition ☐ 1 ☐ 2
I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☒ S-2 Low ☐ High Piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

Accessory Occupancy Classification(s): --
Incidental Uses (Table 509): --
This separation is not exempt as a Non-Separated Use (see exceptions).

Special Uses (Chapter 4 - List Code Sections): --
Special Provisions (Chapter 5 - List Code Sections): --

Mixed Occupancy: ☐ No ☒ Yes Separation: 0 Hr. Exception: 508.3.3

$$\frac{\text{Actual Area of Occupancy - A2}}{\text{Allowable Area of Occupancy - A2}} + \frac{\text{Actual Area of Occupancy - R1}}{\text{Allowable Area of Occupancy - R1}} + \frac{\text{Actual Area of Occupancy - A3}}{\text{Allowable Area of Occupancy - A3}} \leq 1$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 AREA	(C) AREA FOR FRONTAGE INCREASE	(D) ALLOWABLE AREA OR UNLIMITED
1	RESTROOM	130	26,000	N/A	26,000

- 1 Frontage area increases from Section 506.2 are computed thus:
- Perimeter which fronts a public way or open space having 20 feet minimum width = (F)
 - Total Building Perimeter = (P)
 - Ratio (F/P) = (F/P)
 - W = Minimum width of public way = (W)

- 2 Unlimited area applicable under conditions of Section 507.
3 Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
4 The maximum area of open parking garages must comply with 406.5.4. The maximum area of the air traffic control towers must comply with 412.3.1.
5 Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT			
	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	UL	9'-8"	--
Building Height in Stories (Table 504.4)	UL	1	--

* Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQUIRED	PROVIDED (W/REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural frame, including columns, girders, trusses							
Bearing walls							
Exterior							
North	>30'	0	0	--	--	--	--
East	>30'	0	0	--	--	--	--
West	>30'	0	0	--	--	--	--
South	>30'	0	0	--	--	--	--
Interior		0	0				
Nonbearing walls and partitions							
Exterior							
North	>30'	--	NA	--	--	--	--
East	>30'	--	NA	--	--	--	--
West	>30'	--	NA	--	--	--	--
South	>30'	--	NA	--	--	--	--
Interior walls and partitions							
Floor construction							
Including supporting beams and joists		0	0				
Floor Ceiling Assembly		NA					
Columns Supporting Floors		NA					
Roof construction							
Including supporting beams and joists		0	0				
Roof Ceiling Assembly		0	0				
Columns Supporting Roof		NA					
Shaft Enclosures- Exit		NA					
Shaft Enclosures- Other		NA					
Corridor Separation		NA					
Occupancy / Fire Barrier Separation		NA					
Party / Fire Wall Separation		NA					
Smoke Barrier Separation		NA					
Tenant / Dwelling Unit / Sleeping Unit Separation		NA					
Incidental Use Separation		NA					

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

Fire Separation Distance: (Feet) From Property Lines	Degree of Openings Protection: (Table 705.8)	Allowable Area (%)	Actual Shown on Plans (%)
NA			
--	--	--	--
--	--	--	--

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☒ Yes ☐ No
Exit Signs: ☐ Yes ☒ No
Fire Alarm: ☐ Yes ☒ No
Smoke Detection Systems: ☐ Yes ☒ No
Carbon Monoxide Protection: ☐ Yes ☒ No

LIFE SAFETY PLAN REQUIREMENTS

Life safety Plan Sheet # --
☐ Fire and / or smoke rated wall locations (Chapter 7)
☐ Assumed and real property line locations (if not on site plan)
☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
☐ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
☐ Occupants loads for each area
☐ Exit access travel distances (1017)
☐ Common path of travel distances (Tables 1006.2.1 & 1006.3.2)
☐ Dead end lengths (1020.4)
☐ Clear exit widths for each exit door
☐ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
☐ Actual occupant load for each exit door
☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
☐ Location of doors with panic hardware (1010.1.10)
☐ Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
☐ Location of doors with electromagnetic egress locks (1010.1.9.9)
☐ Location of doors equipped with hold open devices
☐ Location of emergency escape windows (1030)
☐ The square footage of each fire area (202)
☐ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
☐ Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE PARKING
(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	PROVIDED	# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
			REGULAR WITH 8' ACCESS AISLE	132" ACCESS AISLE	8' ACCESS AISLE	
	19	19	0	0	2	2
	--	--	--	--	--	--
TOTAL	19	19	0	0	2	2

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE	WATERCLOSETS			URINALS			LAVATORIES			SHOWERS / TUBS			DRINKING FOUNTAINS		
	MALE	FEMALE	UNISEX	MALE	FEMALE	UNISEX	MALE	FEMALE	UNISEX	REGULAR	ACCESSIBLE	REGULAR	ACCESSIBLE	REGULAR	ACCESSIBLE
EXSTG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEW	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0
TOTAL	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0
RECD	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0

SEE MANUFACTURER'S SHOP DRAWINGS

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: _____

Climate Zone: ☐ 3 ☒ 4 ☐ 5

Method of Compliance:
☐ Prescriptive (Energy Code)
☐ Performance (Energy Code)
☐ Prescriptive (ASHRAE 90.1)
☐ Performance (ASHRAE 90.1)

THERMAL ENVELOPE

Roof/ceiling Assembly (each assembly)

Description of assembly: SEE SHOP DRAWING DETAILS

U-Value of total assembly: U-0.0

R-Value of insulation: R-0.0

Skylights in each assembly: NA

U-Value of skylight: _____

total square footage of skylights in each assembly: _____

Exterior Walls (each assembly)

Description of assembly: SEE SHOP DRAWING DETAILS

U-Value of total assembly: U-0.0

R-Value of insulation: R-0.0

Openings (windows or doors with glazing)

U-Value of assembly: NA

Solar heat gain coefficient: NA

projection factor: NA

Door R-Values: NA

Walls below grade (each assembly)

Description of assembly: NA

U-Value of total assembly: _____

R-Value of insulation: _____

Floors over unconditioned space (each assembly)

Description of assembly: NA

U-Value of total assembly: _____

R-Value of insulation: _____

Floors slab on grade

Description of assembly: SEE SHOP DRAWING DETAILS

U-Value of total assembly: U-0.0

R-Value of insulation: R-0.0

Horizontal/vertical requirement: NA

Slab heated: NA

STRUCTURAL DESIGN

SEE MANUFACTURER'S SHOP DRAWINGS

DESIGN LOADS:

Importance Factors: Wind (I_w) --
Snow (I_s) --
Seismic (I_e) --
Live Loads: Roof -- psf
Mezzanine -- psf
Floor -- psf
Ground Snow Loads: -- psf
Wind Loads: Basic Wind Speed -- mph (ASCE-7)
Exposure Category --
Wind Base Shear (For MWRFS) V_x -- V_y --

SEISMIC DESIGN CATEGORY ☐ A ☐ B ☐ C ☐ D

Provide the following Seismic Design Parameters:

Occupancy Category (Table 1604.5) ☐ I ☐ II ☐ III ☐ IV

Spectral Response Acceleration S_s -- %g S₁ -- %g

Site Classification (ASCE 7) ☐ A ☐ B ☐ C ☐ D ☐ E ☐ F
Data Source: ☐ Field Test ☐ Presumptive ☐ Historical Data

Basic structural system (check one)

☐ Bearing Wall ☐ Dual w/Special Moment Frame
☐ Building Frame ☐ Dual w/Intermediate R/C or Special Steel
☐ Moment Frame ☐ Inverted Pendulum
Siesmic bBase Shear V_x -- V_y --

Analysis Procedure ☐ Simplified ☐ Equivalent Lateral Force ☐ Dynamic

Architectural, Mechanical, Components anchored? ☐ Yes ☐ No

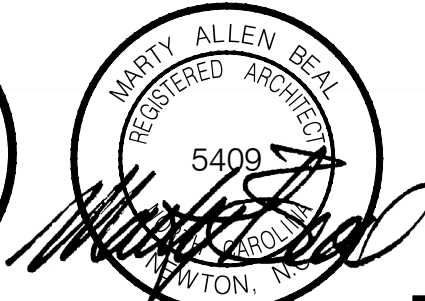
LATERAL DESIGN CONTROL: Earthquake ☐ Wind ☐

SOIL BEARING CAPACITIES:

Field Test (provide copy of test report) -- psf

Presumptive Bearing capacity -- psf

Pile size, type, and capacity --



07/10/26

SEE MANUFACTURER'S SHOP DRAWINGS

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone

winter dry bulb: _____
summer dry bulb: _____

Interior design conditions

winter dry bulb: _____
summer dry bulb: _____
relative humidity: _____

Building heating load: _____

Buidling cooling load: _____

Mechanical Spacing Conditioning System

Unitary

description of unit: _____
heating efficiency: _____
cooling efficiency: _____
size category of unit: _____

Boiler

Size category. If oversized, state reason: _____

Chiller

Size category. If oversized, state reason: _____

List equipment efficiencies: _____

SEE MANUFACTURER'S SHOP DRAWINGS

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance:

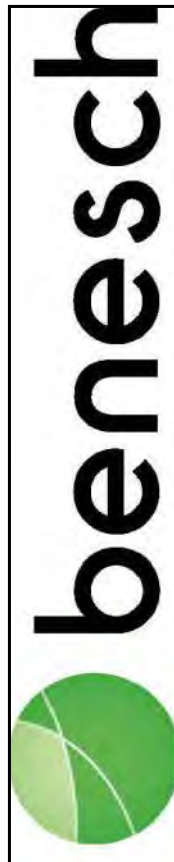
Energy Code: ☐ Prescriptive ☐ Performance
ASHRAE 90.1: ☐ Prescriptive ☐ Performance

Lighting Schedule (each fixture type)

lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture
total interior wattage specified vs allowed (whole building or space by space)
total exterior wattage specified vs allowed

Additional Prescriptive Compliance

☐ 506.2.1 More Efficient Mechanical equipment
☐ 506.2.2 Reduced Lighting Power Density
☐ 506.2.3 Energy recovery Ventilation systems
☐ 506.2.4 Higher efficiency Service water Heating
☐ 506.2.5 On-Site Supply of Renewable energy
☐ 506.2.6 Automatic Daylighting Control Systems



Seals:

Corp. NC license: F-1320

Sandy Pines Park
"Initial Phase"

2301 21st Avenue NE
Hickory, North Carolina

Project no: 1726.500006.00

Date: 07.10.26

Revisions:

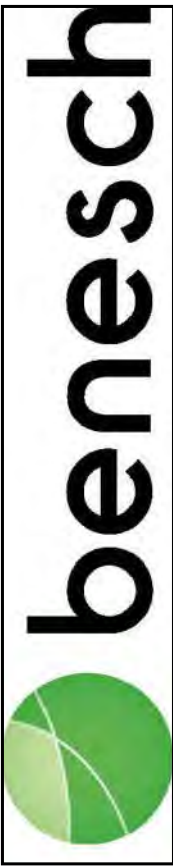
Sheet Title:

APPENDIX B

Sheet No:

BC1.0

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Sandy Pines Park
"Initial Phase"
2301 21st Avenue NE
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Project no: 1726.500006.00

Date: 07.10.26

Revisions:

Sheet Title:

RESTROOM
FLOOR PLAN
SCHEDULES

Sheet No:

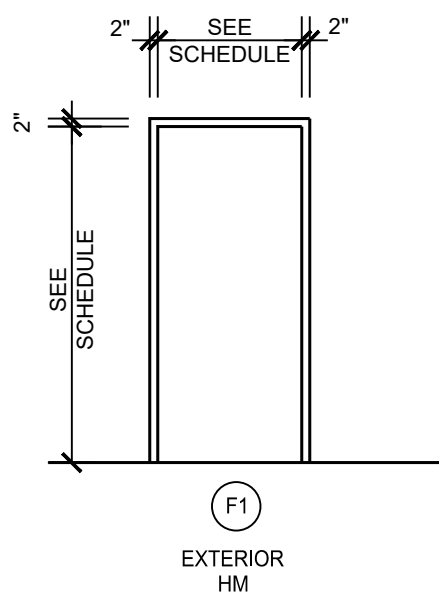
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DOOR, FRAME AND HARDWARE SCHEDULE

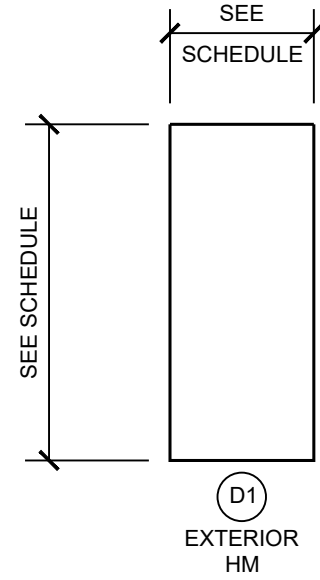
DOOR LEGEND:				HARDWARE LEGEND:				DOOR NOTES:				HARDWARE:											
TIG	TEMPERED INSULATED GLASS			ET	ENTRANCE			①	GALVANIZED			M = MORTISE C = CYLINDER * = CYLINDER BY HARDWARE MFG											
TG	TEMPERED GLASS			OFF	OFFICE			②	--														
PR	PAIR			ST	STORAGE			FRAME NOTES:															
HM	HOLLOW METAL - INSULATED			PV	PRIVACY			①	GALVANIZED														
SCWD	SOLID CORE WOOD DOOR			CR	CLASSROOM			②	--			ELECTRIC DOOR LOCK W/ EXTERIOR KEY PAD ADA THUMB TURN & PRIVACY INDICATOR CLOSE W/ HOLD OPEN SPRING HINGE KICKPLATE FLUSHBOLT TS - MANUAL RECESSED DEAD PROOF STRIKE BC - BY CLOSER W = WALL ON = OVERHEAD ASTRAGAL WEATHER SEAL - ALL SIDES THRESHOLD RAIN DRIP EDGE FLUSHBOLT TS - MANUAL RECESSED DEAD PROOF STRIKE BC - BY CLOSER W = WALL ON = OVERHEAD ASTRAGAL WEATHER SEAL - ALL SIDES THRESHOLD RAIN DRIP EDGE FLUSHBOLT TS - MANUAL RECESSED DEAD PROOF STRIKE BC - BY CLOSER W = WALL ON = OVERHEAD ASTRAGAL WEATHER SEAL - ALL SIDES THRESHOLD RAIN DRIP EDGE FLUSHBOLT TS - MANUAL RECESSED DEAD PROOF STRIKE BC - BY CLOSER W = WALL ON = OVERHEAD ASTRAGAL WEATHER SEAL - ALL SIDES THRESHOLD RAIN DRIP EDGE FLUSHBOLT TS - MANUAL RECESSED DEAD PROOF STRIKE BC - BY CLOSER W = WALL ON = OVERHEAD ASTRAGAL WEATHER SEAL - ALL SIDES THRESHOLD RAIN DRIP EDGE FLUSHBOLT TS - MANUAL RECESSED DEAD PROOF STRIKE BC - BY CLOSER W = WALL ON = OVERHEAD ASTRAGAL WEATHER SEAL - 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FINISH ROOM SCHEDULE

ABBREVIATIONS											
ACT 1	2" X 2" ACOUSTICAL TILE	CLR CONC	COLORED CONCRETE	MRGB	MOIST. & MOLD RESIST. GYP. BD.	RUBB	RUBBER - 4" COVERED BASE	WD	WOOD		
ACT 2	2" X 2" ACOUSTICAL TILE	EP	EPOXY PAINT	MAT	WALK - OFF MAT	S	SEALED	MWP	METAL WALL PANEL		
BB	BEAD BOARD	EPF	EPOXY FLOOR	MT	MARBLE TILE	ST	CRUSHED STONE				
CPT #1	CARPET - ROLL	EXT	EXISTING	P	PAINT	STL STRUC	STEEL STRUCTURE				
CPT #2	CARPET - MODULAR TILE	EXP	EXPOSED	PL LAM	PLASTIC LAMINATE	TERR	TERRAZZO				
CT	CERAMIC TILE	EXT - BRK	EXISTING BRICK	PLST	PLASTER	TP	TEXTURED PAINT				
CT - S	CERAMIC TILE (SPECIAL SHAPE)	EXT - MAS	EXISTING MASONRY WALLS	POR T	PORCELAIN TILE	VWC	VINYL WALL COVERING				
CONC	CONCRETE - SEALED	GB	GYP SUM BOARD	PLWD	PLYWOOD	VCT	VINYL COMPOSITION TILE				
CMU	CONCRETE MASONRY	LVP	LUXURY VINYL PLANK	RSV	RESILIENT SHEET VINYL	WC - (type)	WALL COVERING				
		FLOORS		WALLS				CEILING		NOTES	
NO.	SPACE	FLOOR	BASE	NORTH	SOUTH	EAST	WEST	MATERIAL	HEIGHT		NO.
	STORAGE	CONC	-	CONC	CONC	CONC	CONC	CONC	VARIES		100
	RESTROOM 1	CONC	-	CONC	CONC	CONC	CONC	CONC	VARIES		101
	RESTROOM 2	CONC	-	CONC	CONC	CONC	CONC	CONC	VARIES		102
GENERAL NOTES:											



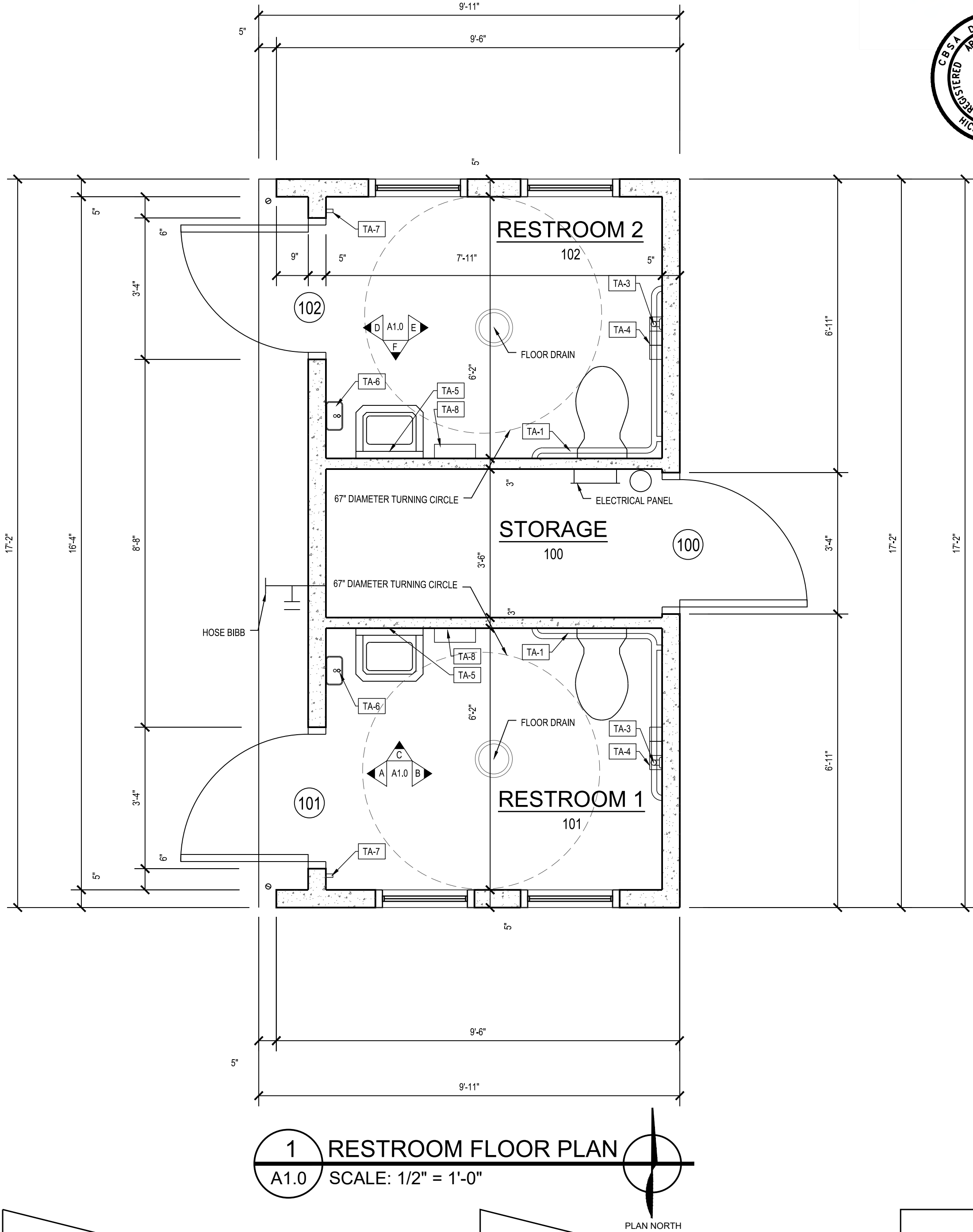
FRAME TYPES
NOT TO SCALE



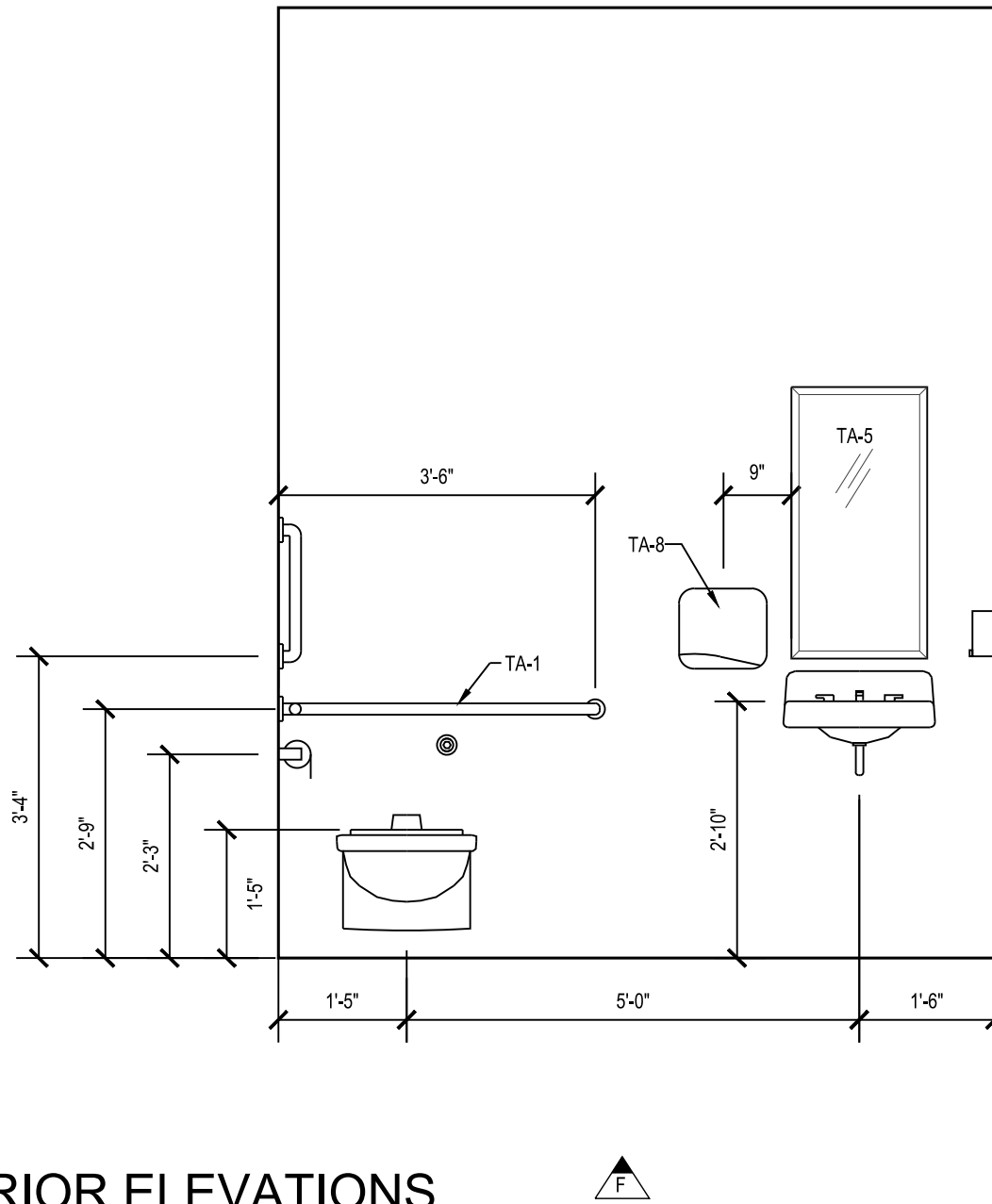
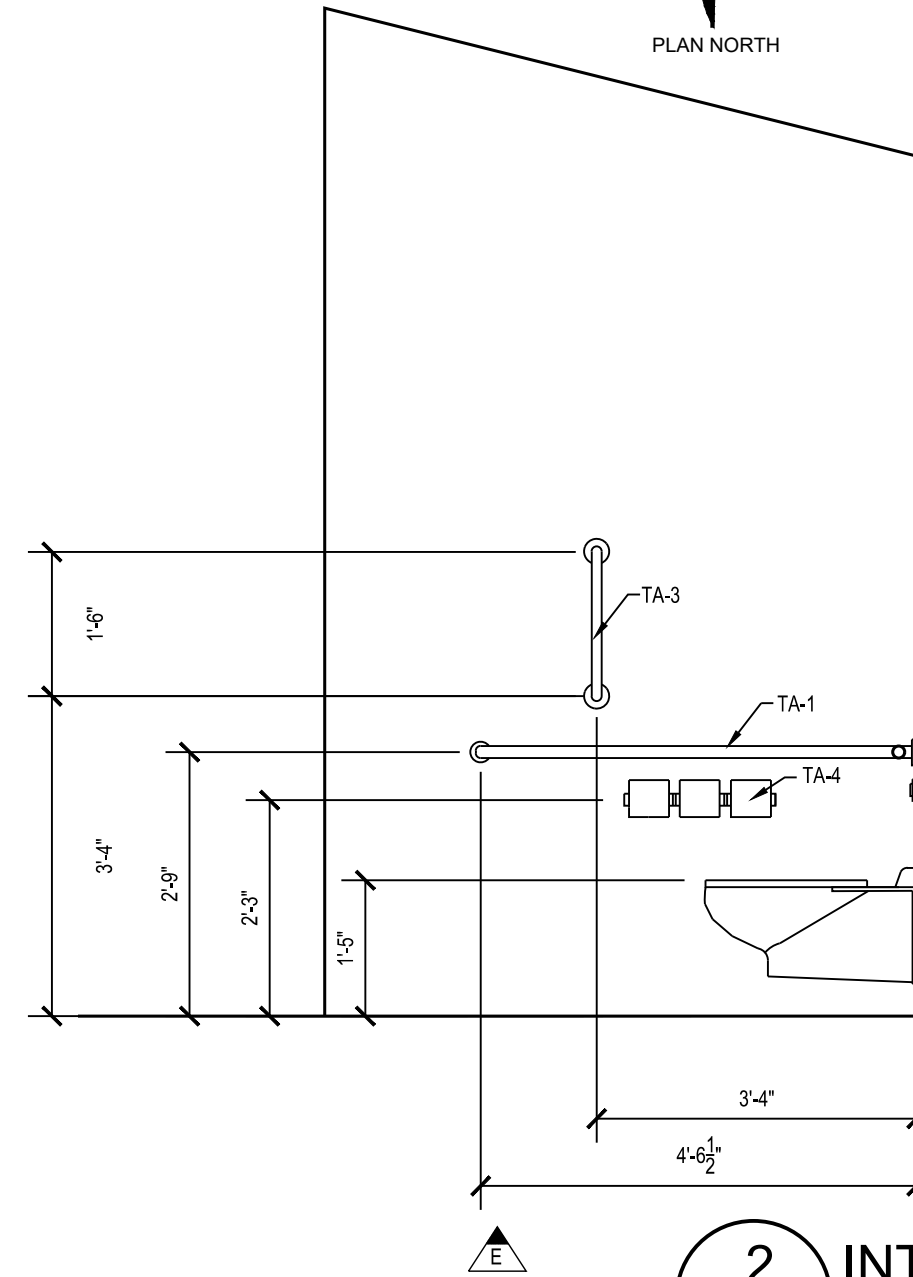
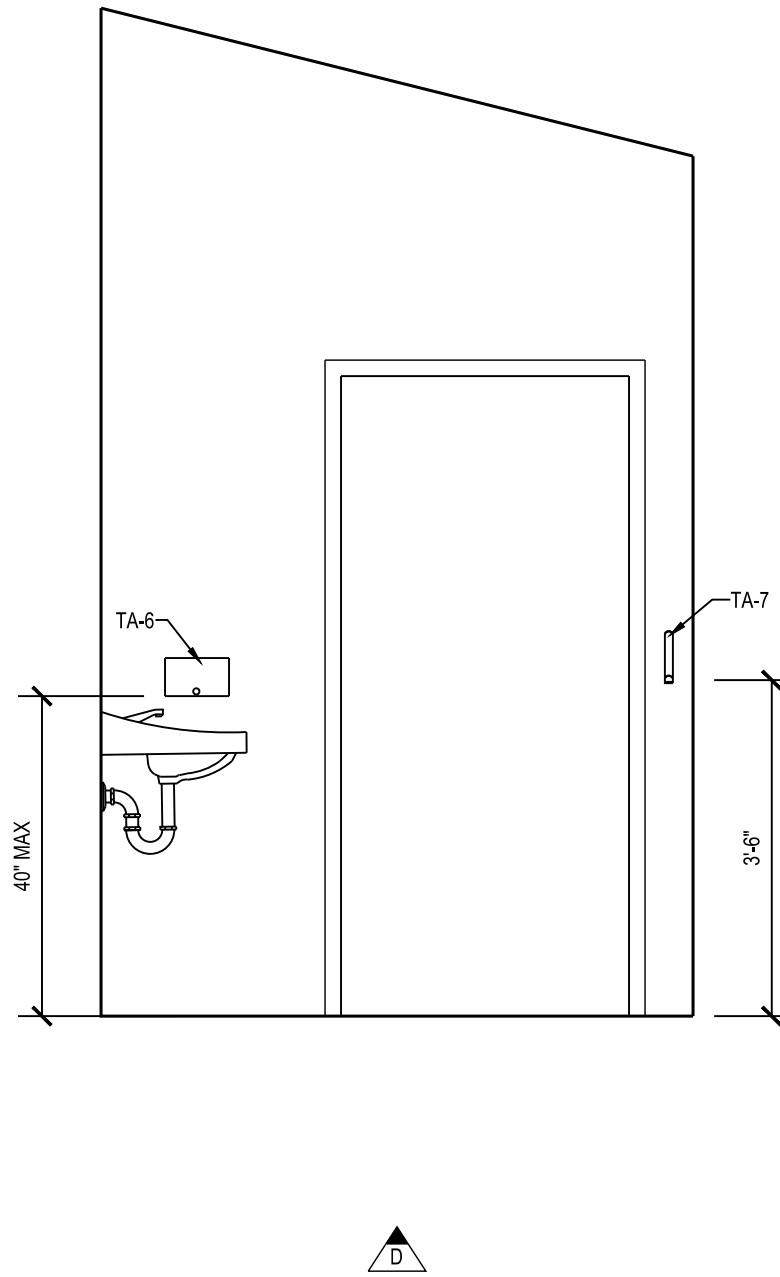
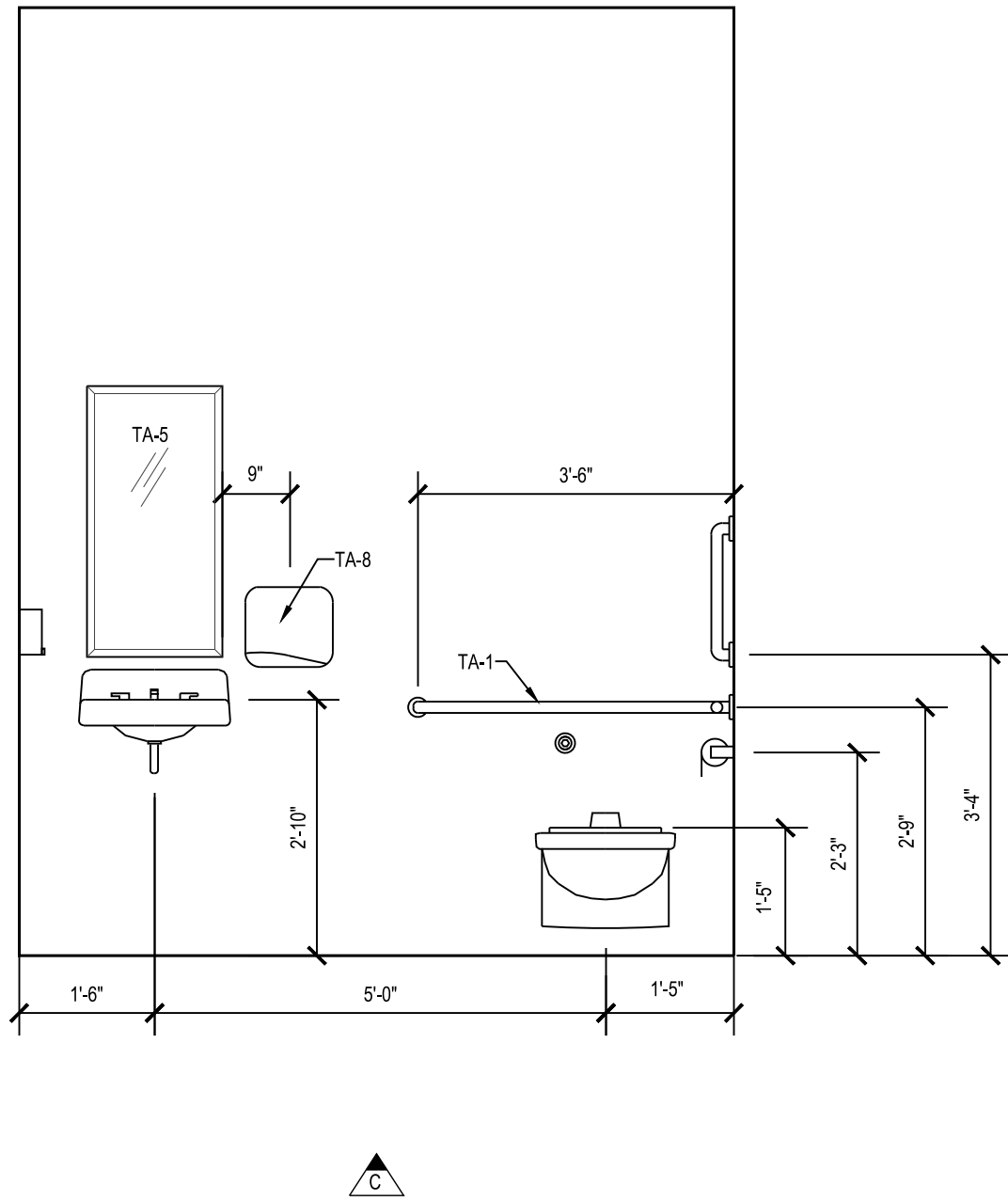
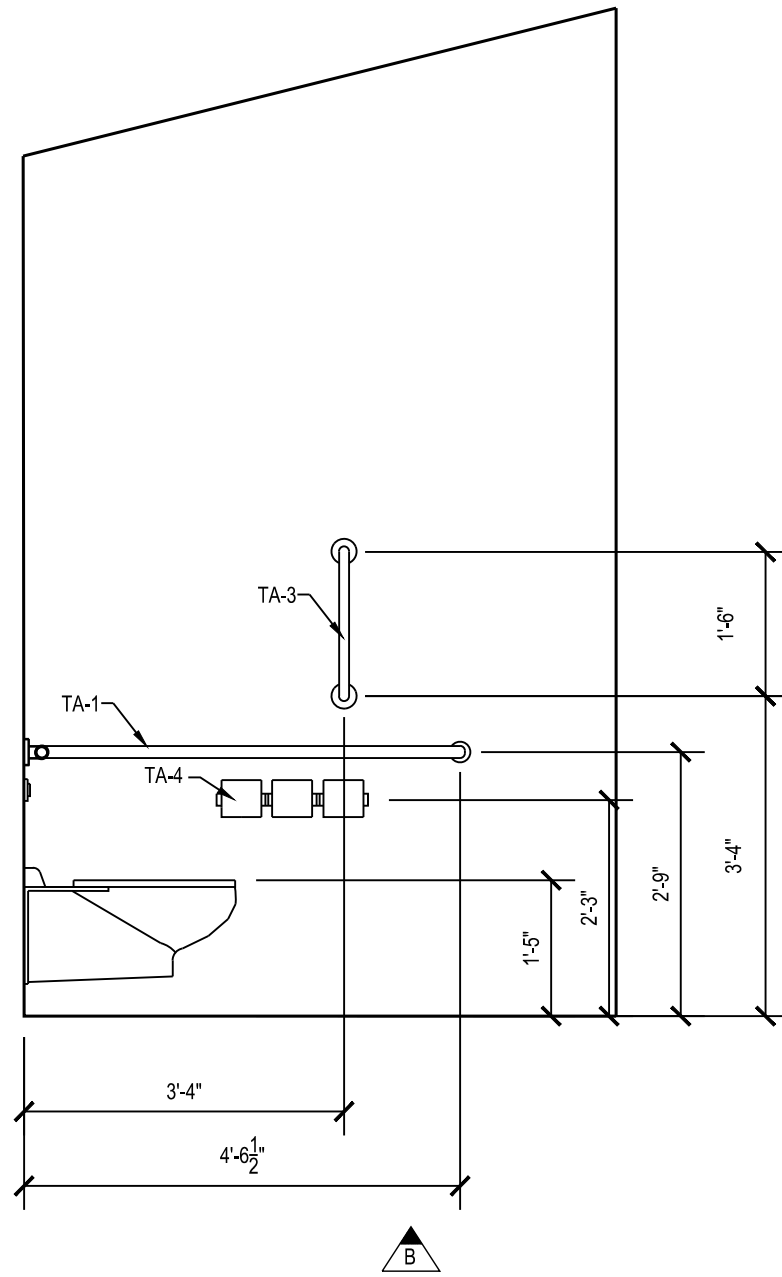
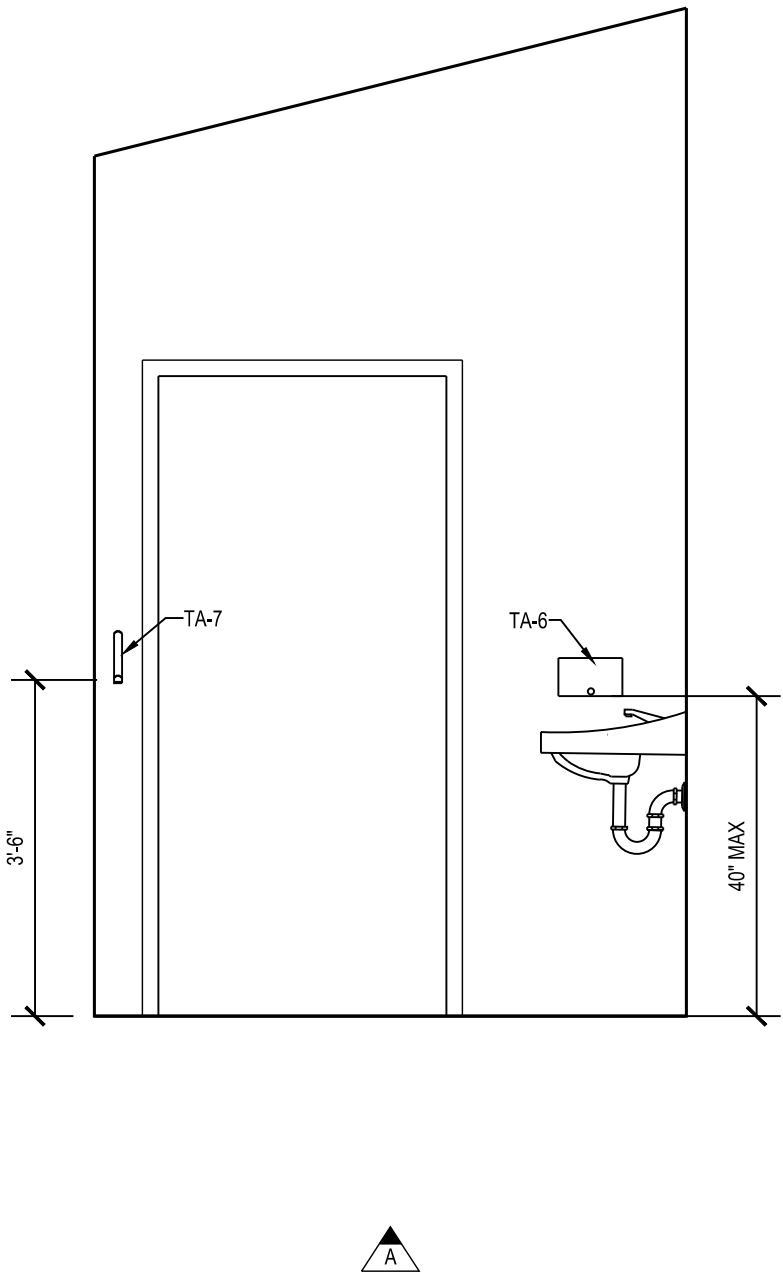
DOOR TYPES
NOT TO SCALE

TOILET ACCESSORY SCHEDULE

MARK	DESCRIPTION
TA-1	TWO-WALL HORIZONTAL GRAB BAR (42" X 54-1/2")
TA-2	NOT USED
TA-3	VERTICAL GRAB BAR (18")
TA-4	SURFACE MOUNT TOILET PAPER DISPENSER (3-ROLL)
TA-5	MIRROR
TA-6	SURFACE MOUNT SOAP DISPENSER
TA-7	SURFACE MOUNT COAT HOOK
TA-8	SURFACE MOUNT HAND DRYER (ELECTRIC)
NOTES:	
1. TOILET ACCESSORIES ARE TO BE PROVIDED AND INSTALLED BY THE PRECAST CONCRETE RESTROOM MANUFACTURER.	
2. SEE ELEVATIONS FOR TYPICAL MOUNTING HEIGHTS.	



1 RESTROOM FLOOR PLAN
A1.0 SCALE: 1/2" = 1'-0"



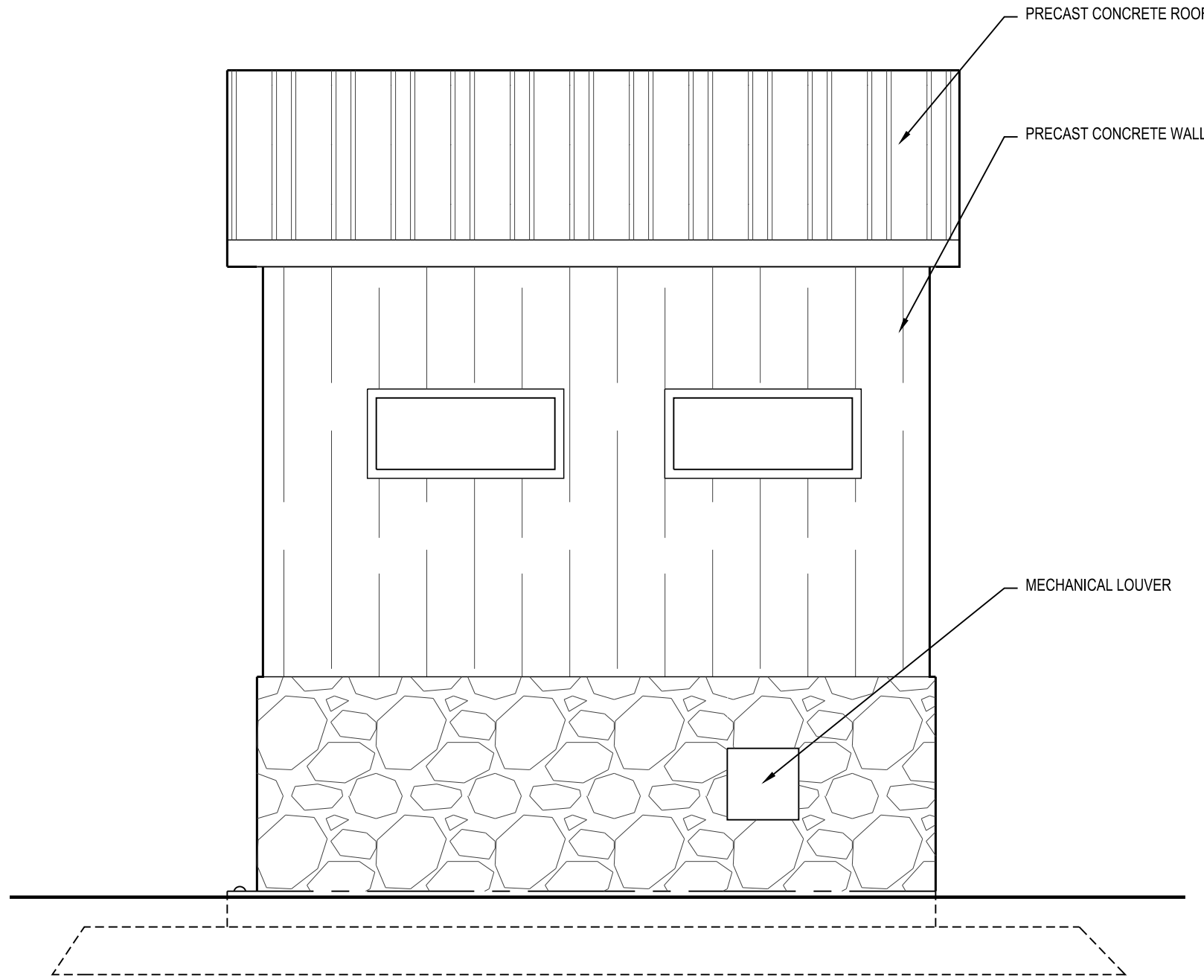
2 INTERIOR ELEVATIONS
A1.0 SCALE: 1/2" = 1'-0"

DOOR, FRAME AND HARDWARE SCHEDULE															
DOOR LEGEND:				HARDWARE LEGEND:				DOOR NOTES:				HARDWARE:			
TIG	TEMPERED INSULATED GLASS	ET	ENTRANCE					① GALVANIZED							
TG	TEMPERED GLASS	OFF	OFFICE					② --							
PR	PAIR	ST	STORAGE					FRAME NOTES:							
HM	HOLLOW METAL - INSULATED	PV	PRIVACY					① GALVANIZED							
SCWD	SOLID CORE WOOD DOOR	CR	CLASSROOM					② --							
DE	DOUBLE EGRESS	PA	PASSAGE					HARDWARE NOTES:							
CG	CERAMIC FIRE RATED GLASS	ED	RIM TYPE EXIT DEVICE					① POWER THROUGH MIDDLE HINGE							
EX	EXISTING	WD	WOOD DOOR					② --							
CO	CASED OPENING														
HCWD	HOLLOW CORE WOOD DOOR														
HCMD	HOLLOW CORE MOLDED DOOR														
OPENING				DOORS				FRAMES							
NUMBER	LABEL	TYPE	MATERIAL	SIZE	GLASS	NOTES	TYPE	MATERIAL	JAMB	HEAD	NOTES				
100	--	D1	HM	3'-0" X 6'-8"	--	①	F1	HM	--	--	①	M	--	--	100
101	--	D1	HM	3'-0" X 6'-8"	--	①	F1	HM	--	--	①	M	--	--	101
102	--	D1	HM	3'-0" X 6'-8"	--	①	F1	HM	--	--	①	M	--	--	102

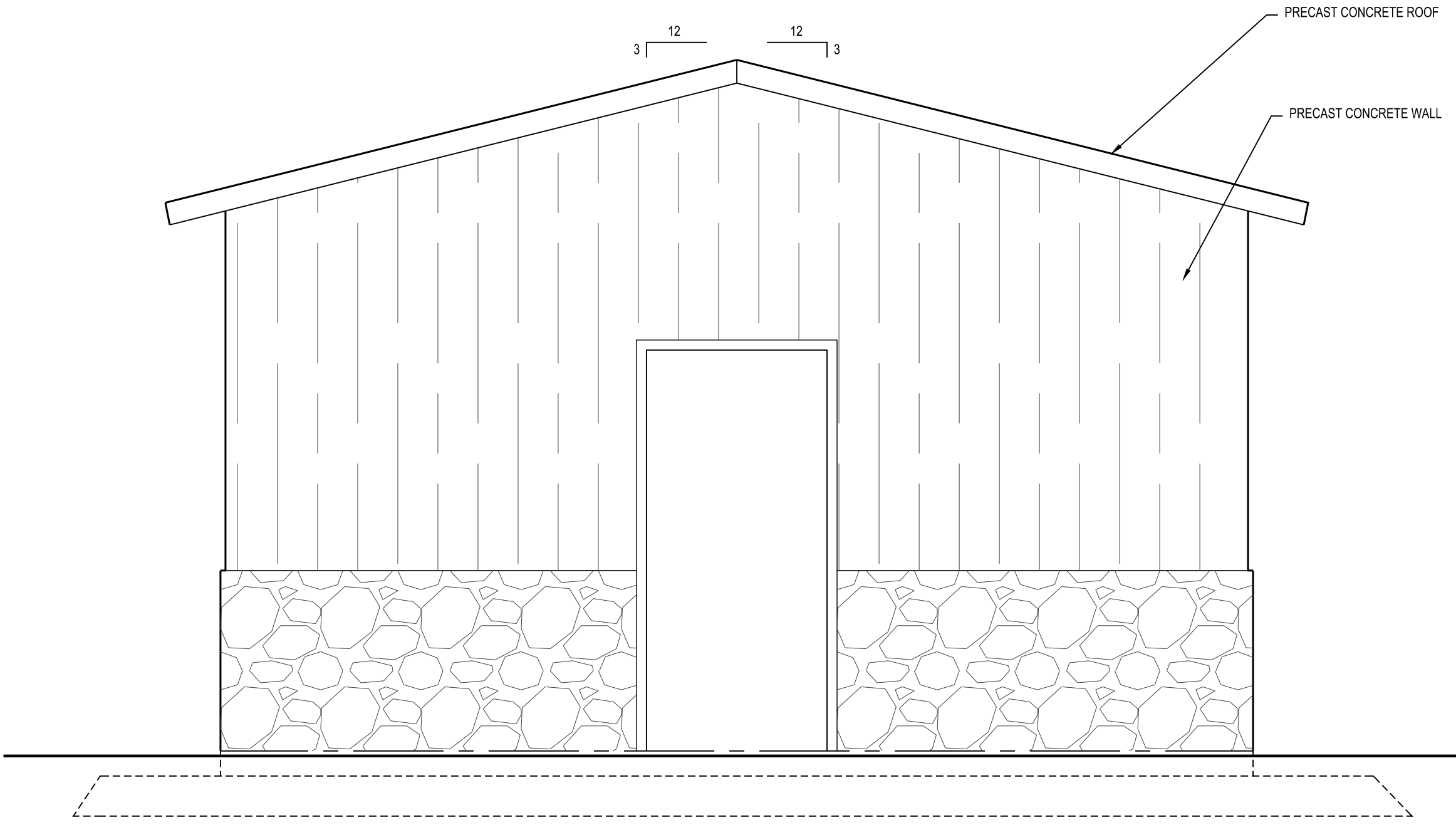
GENERAL NOTES:

- ①
- ②
- ③
- ④

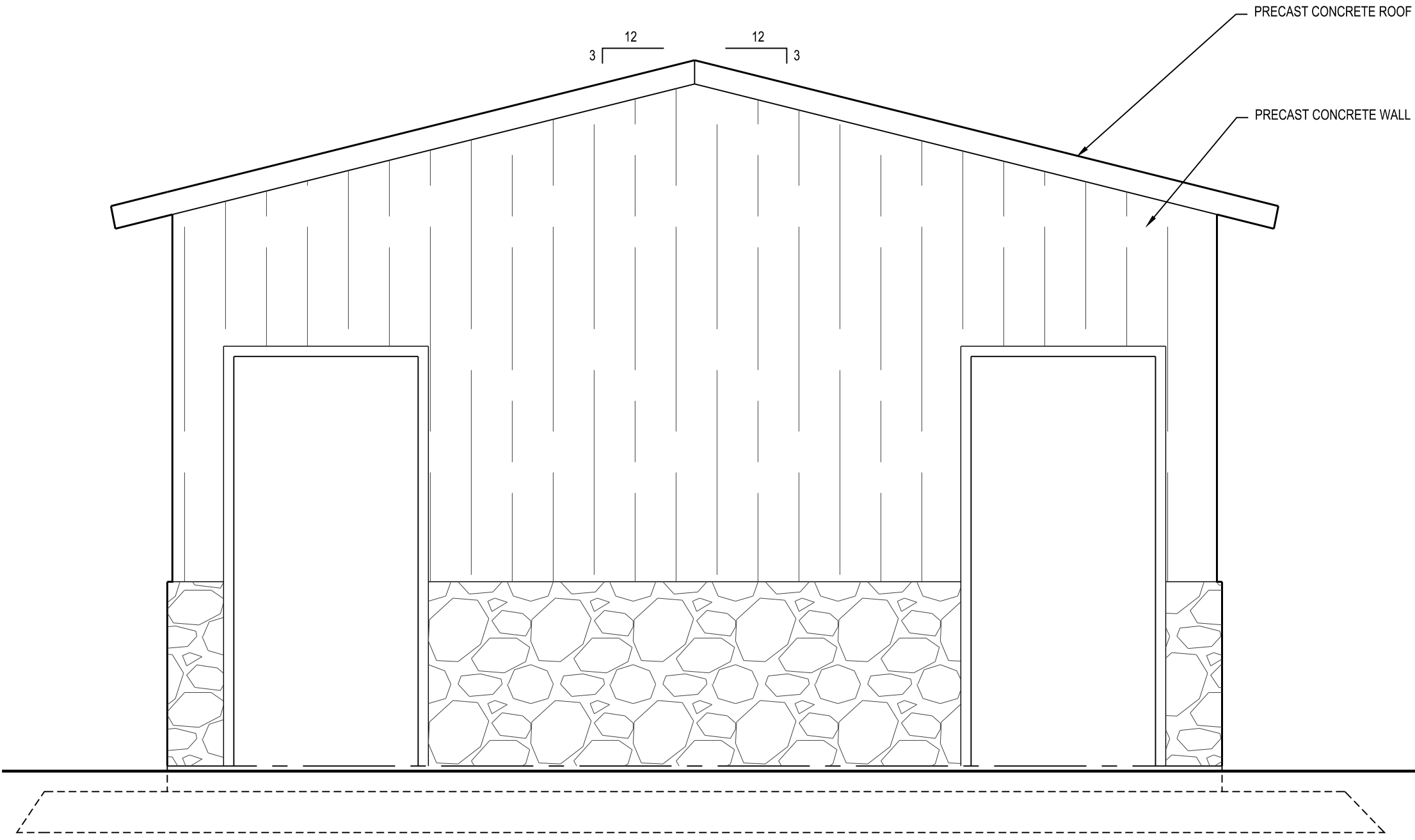




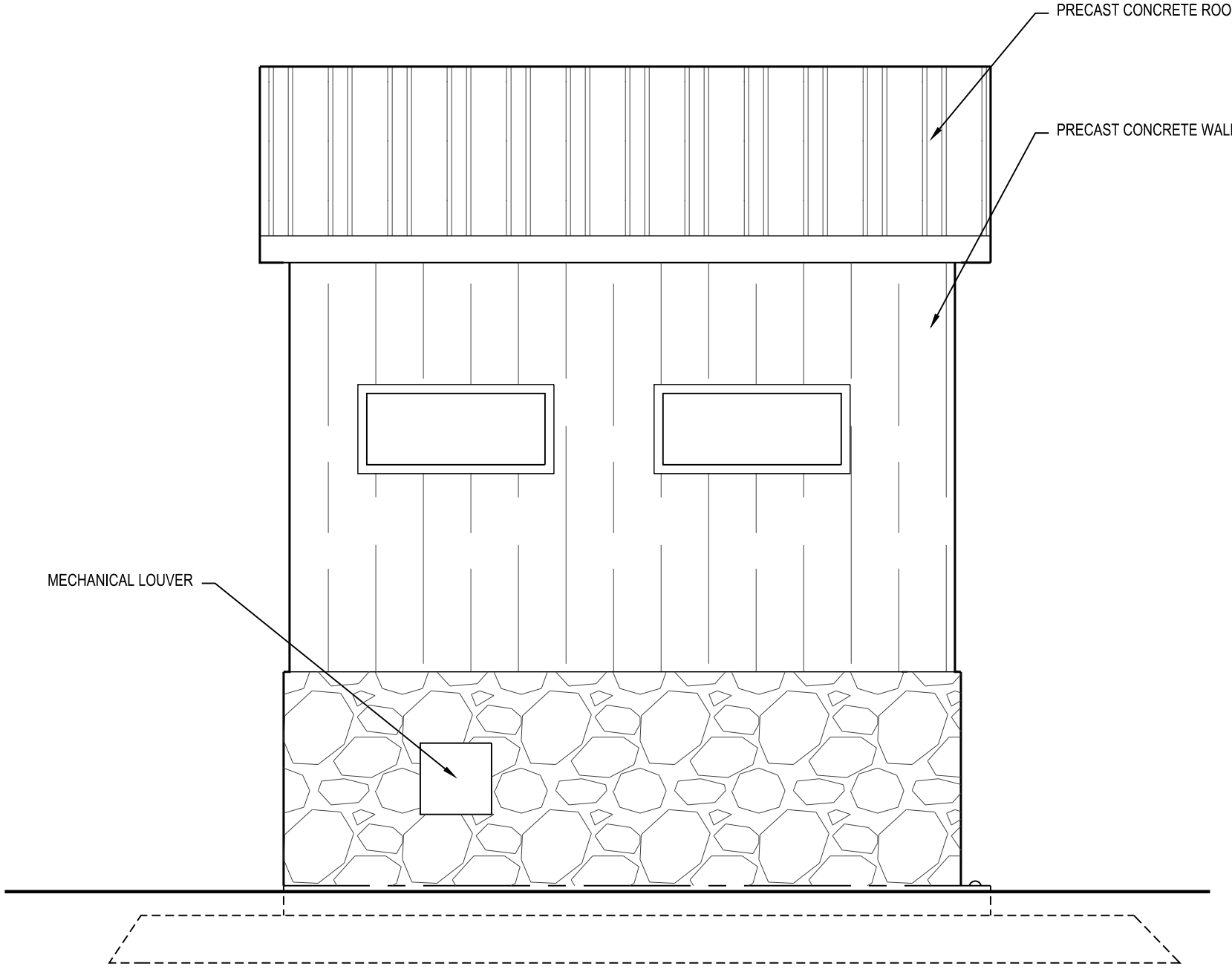
1 RIGHT SIDE ELEVATION
A3.0 SCALE: 1/2" = 1'-0"



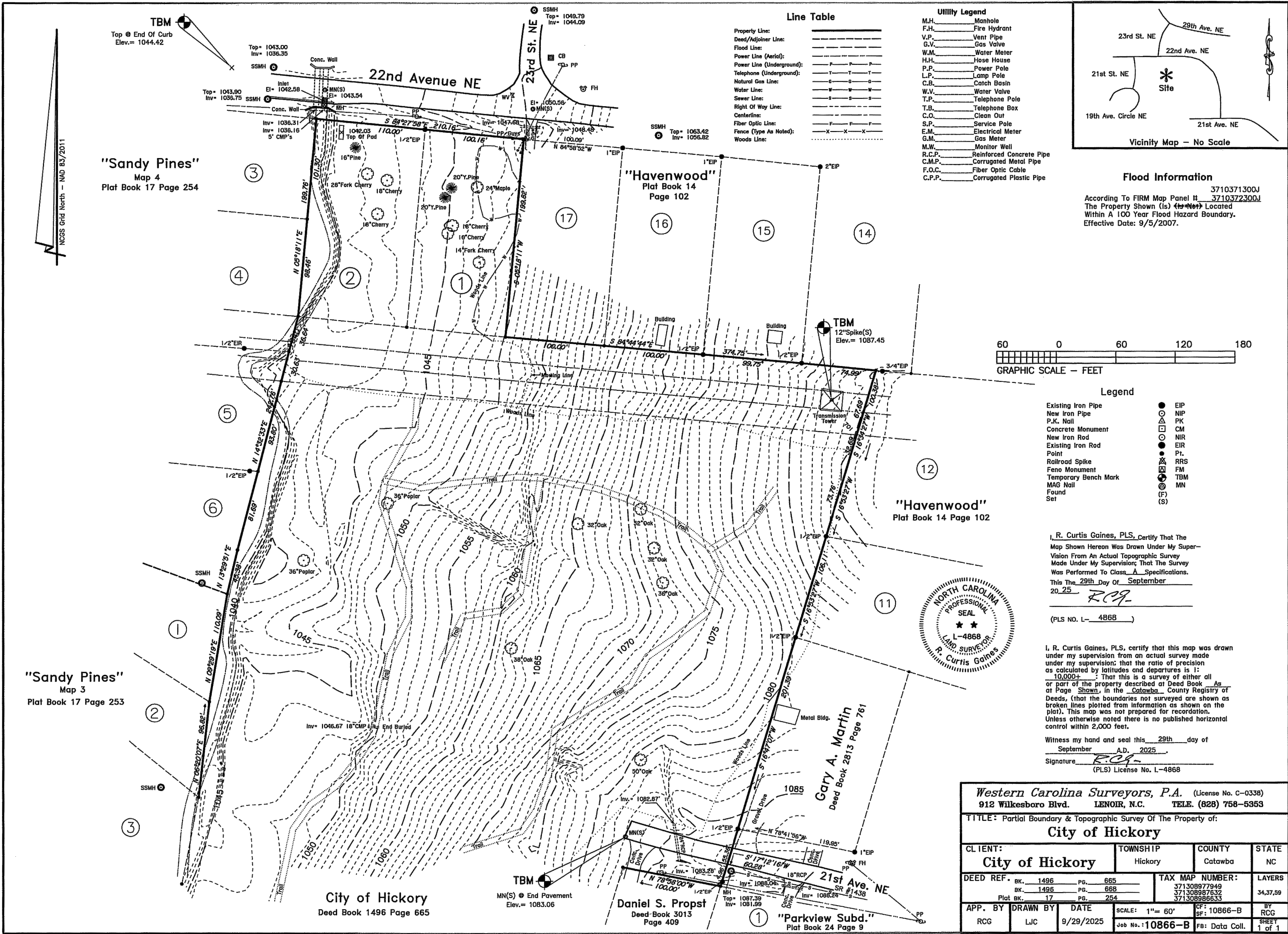
2 REAR ELEVATION
A3.0 SCALE: 1/2" = 1'-0"



3 FRONT ELEVATION
A3.0 SCALE: 1/2" = 1'-0"



4 LEFT SIDE ELEVATION
A3.0 SCALE: 1/2" = 1'-0"



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DEMOLITION/CLEARING NOTES

- BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A SURVEY PREPARED BY WESTERN CAROLINA SURVEYORS, PA COMPLETED ON SEPTEMBER 29, 2025.
- CONTRACTOR SHALL REMOVE EXISTING TREES, CONCRETE, ASPHALT AND OTHER EXISTING STRUCTURES INDICATED ON PLAN. CONTRACTOR TO DISPOSE OF ALL DEBRIS TO AN APPROVED (LEGAL) OFF-SITE LOCATION.
- PROTECT ADJACENT CURBS, TREES, BUILDINGS, UTILITIES AND OTHER ITEMS TO REMAIN FROM DAMAGE. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND/OR PAYMENT OF ANY DAMAGED ITEMS TO REMAIN.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK, BOTH PUBLIC AND PRIVATE. CONTRACTOR IS FULLY RESPONSIBLE FOR ALL UNDERGROUND UTILITIES AND SHALL REPAIR ANY DAMAGE AS A RESULT OF THIS CONTRACT.
- CONTRACTOR SHALL REPORT ANY ENCROACHMENTS OR DISCREPANCIES IMMEDIATELY TO ALFRED BENESCH & COMPANY FOR DECISION.
- HATCHED AREA ON THIS PLAN INDICATES EXISTING WOODED AREA TO BE REMOVED. DUE TO A LACK OF AN INDIVIDUAL TREE SURVEY, TREE SAVE AREAS ARE SHOWN IN MASSES. CONTRACTOR SHALL MAKE EVERY EFFORT TO SAVE ANY SPECIMEN TREES NEAR CLEARING LIMITS.
- CONTRACTOR SHALL MAKE EVERY EFFORT TO SAVE ADDITIONAL TREES WHEREVER FEASIBLE.
- NO SOIL DISTURBANCE OR COMPACTION, CONSTRUCTION MATERIALS, TRAFFIC, BURIAL PITS, TRENCHING OR OTHER LAND DISTURBING ACTIVITY ALLOWED IN THE TREE SAVE AREA.
- CLEARING LIMITS ON THE PLAN INDICATE THE EXTENT OF ALL MAJOR CLEARING REQUIRED. CONTRACTOR IS ALSO RESPONSIBLE FOR ANY INCIDENTAL CLEARING REQUIRED FOR MINOR DISCREPANCIES IN GRADE, UTILITY OR STORM PIPE INSTALLATIONS, EROSION CONTROL MEASURES, ETC.
- DUE TO PRESENCE OF UNSTABLE SOILS ON SITE, FOLLOW GEOTECH RECOMMENDATIONS FOR AREAS THAT MAY REQUIRE UNDERCUT AND SUITABLE FILL.
- ACTIVITIES WITHIN DUKE ENERGY RIGHT-OF-WAY:
 - NO PURPOSEFUL BURNING OR STOCKPILING OF COMBUSTIBLE MATERIALS.
 - MOUNDING OR STOCKPILING OF MATERIAL SUCH AS SPOILS, DIRT, LOGS, CONSTRUCTION OR BUILDING MATERIAL, WRECKED OR DISABLED VEHICLES;
 - NO GRADING ACTIVITIES CLOSER THAN 25' TO DUKE ENERGY FACILITIES (TOWERS, POLES, GUY WIRES, GUY ANCHORS, MANHOLES, DIP-POLES, SUBSTATION EQUIPMENT, ETC.).

LEGEND

	EXISTING SIGN		EXISTING ITEMS TO BE REMOVED
	EXISTING IRON PIN		EXISTING PAVEMENT TO BE REMOVED
	EXISTING LIGHT POLE		EXISTING TREE CLEARING
	EXISTING UTILITY POLE		SAWCUT LINE
	RIGHT-OF-WAY		EXISTING CURB AND GUTTER
	ACCESSIBLE SPACE		PROPERTY LINE
	EXISTING TREE TO REMAIN		EXISTING FENCE
	EXISTING TREE TO BE REMOVED		EXISTING UNDERGROUND ELECTRIC LINE
	EXISTING FIRE HYDRANT		EXISTING OVERHEAD ELECTRIC LINE
	EXISTING WATER VALVE		EXISTING UNDERGROUND TELEPHONE LINE
	EXISTING WATER METER		EXISTING FIBER OPTIC LINE
	EXISTING SEWER MANHOLE		EXISTING SANITARY SEWER LINE
	EXISTING STORM MANHOLE		EXISTING WATER LINE
	EXISTING DRAINAGE STRUCTURE		EXISTING GAS LINE
	EXISTING CLEANOUT		EXISTING CONTOUR LINE
	EXISTING SPOT ELEVATION		TEMPORARY TREE PROTECTION BARRICADE
	EXISTING GAS VALVE		EXISTING TREELINE
	EXISTING GAS METER		EXISTING EASEMENT



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Seals:

7/23/2026
Corp. NC License: F-1320

Sandy Pines Park
"Initial Phase"
2301 21st Avenue NE
Hickory, North Carolina

Project no: 1726.500006.00
Date: 07.17.26
Revisions:

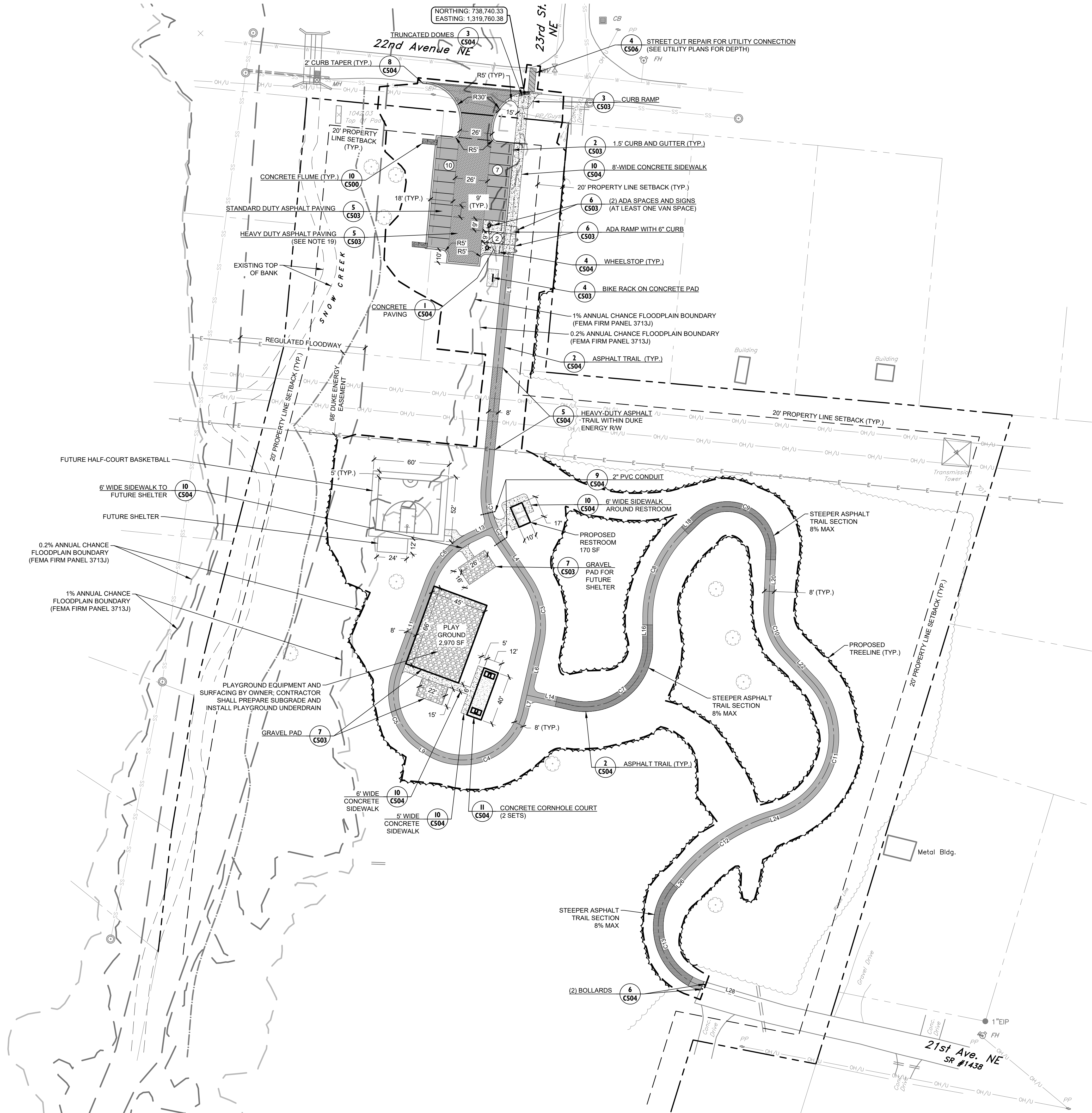
Sheet Title:
EXISTING
CONDITIONS AND
DEMOLITION PLAN

Sheet No:
C100



Alfred Benesch & Company
2359 Perimeter Pointe Parkway, Suite 200
Hickory, NC 28601
www.benesch.com
P 704.521.9880

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CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C6	50.22'	65.00'	44.27
C5	66.59'	50.00'	76.30
C4	96.86'	50.00'	110.99
C3	53.25'	65.00'	46.94
C2	12.10'	65.00'	10.67
C1	32.90'	65.00'	29.00
C13	99.18'	50.00'	113.65
C12	86.90'	150.00'	33.19
C11	131.47'	65.00'	115.89
C10	39.52'	50.00'	45.29
C9	83.54'	35.00'	136.75
C8	75.39'	95.00'	45.47
C7	89.66'	50.00'	102.74

LINE TABLE		
LINE #	LENGTH	DIRECTION
L13	18.97'	N64°22'24"E
L11	75.92'	N20°06'11"E
L9	5.94'	N56°11'58"W
L7	13.34'	S12°48'24"W
L6	42.27'	S12°48'24"W
L4	38.22'	S34°08'00"E
L1	316.74'	S5°32'02"W
L28	43.29'	S73°57'27"E
L26	11.50'	S39°41'42"W
L24	4.51'	S72°53'20"W
L22	31.15'	S43°00'00"E
L20	44.33'	S2°17'15"W
L18	14.68'	N45°32'12"E
L16	22.03'	N0°04'07"E
L14	36.37'	S77°11'36"E

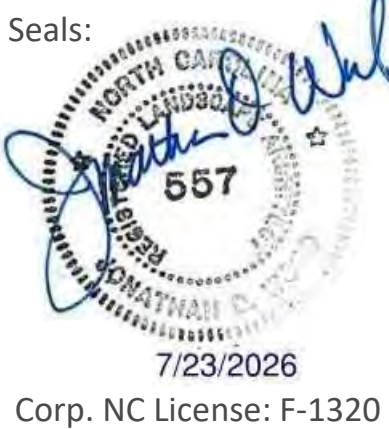
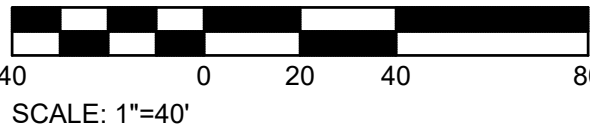
- ### SITE NOTES
- DIMENSIONS AND COORDINATE POINTS ARE TO FACE OF CURB, EDGE OF PAVEMENT, OR CORNER OF BUILDING UNLESS OTHERWISE NOTED.
 - ALL IMPROVEMENTS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATE AND LOCAL STANDARDS.
 - ANY DISCREPANCIES FOUND IN THE FIELD SHALL BE CALLED TO THE ATTENTION OF THE OWNER OR ENGINEER PRIOR TO PROCEEDING WITH WORK.
 - PRIOR TO BEGINNING CONSTRUCTION, UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS (BOTH SITE AND BUILDING RELATED) INCLUDING BUT NOT LIMITED TO REGULATORY FEES, LICENSES, AND INSPECTIONS NECESSARY FOR PROPER EXECUTION AND COMPLETION OF THE WORK.
 - THE GENERAL CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES, AND RIGHT-OF-WAYS, PUBLIC AND PRIVATE, PRIOR TO WORKING IN THESE AREAS.
 - GENERAL CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND THE PUBLIC SHALL BE PROTECTED FROM INJURY.
 - SIGHT TRIANGLES SHOWN ARE THE MINIMUM REQUIRED.
 - USE CAUTION WHEN REPRODUCING COPIES OF THE CONSTRUCTION DRAWINGS. COPIES ARE SUBJECT TO DISTORTION AND INACCURACY IN THE SCALE OF DRAWINGS. VERIFY ANY DISCREPANCIES WITH BENESCH.
 - ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION AS AMENDED.
 - ALL PAVEMENT MARKINGS SHALL BE FOUR (4) INCHES WIDE UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
 - CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS AS SHOWN ON THE PLANS.
 - CONTRACTOR SHALL SAW-CUT EXISTING ASPHALT PAVEMENT AREAS TO TIE IN SMOOTHLY TO PROPOSED PAVEMENT AT DRIVEWAY ENTRANCES.
 - REFER TO ARCHITECTURAL PLANS FOR ACTUAL BUILDING DIMENSIONS.
 - THE ENGINEER WILL PROVIDE THE CONTRACTOR WITH AN ELECTRONIC FILE OF THESE DRAWINGS UPON REQUEST.
 - CONTACT THE UTILITY COMPANY TO RELOCATE ANY EXISTING UTILITY POLES. ALL EXISTING FACILITIES WHICH CONFLICT WITH THE IMPROVEMENTS UNDER THE SCOPE OF THIS PROJECT MUST BE RELOCATED AT THE EXPENSE OF THE OWNER.
 - STOP BEFORE YOU DIG. CALL 811. IT'S THE LAW.
 - HEAVY DUTY PAVEMENT SHOWN ON THIS PLAN IS CAPABLE OF SUPPORTING AN 85,000 LB FIRE TRUCK.
 - DRIVEWAY CONNECTION AT 22ND AVE NE TO BE COORDINATED WITH ENGINEERING DEPARTMENT PRIOR TO CONSTRUCTION.
 - HEAVY DUTY PAVEMENT AREAS SHALL BE UNDERCUT 3 FT BELOW SUBGRADE ELEVATIONS. INSTALL GEOTEXTILE FABRIC OR GEOGRID PRIOR TO BACKFILLING. BACKFILL USING GRANULAR FILL SOILS AS APPROVED BY GEOTECHNICAL ENGINEER.

SITE DATA

PROJECT OWNER ADDRESS	SANDY PINES PARK "INITIAL PHASE" CITY OF HICKORY 2301 21ST AVENUE NE, HICKORY, NC 2210 22ND AVENUE NE, HICKORY, NC 2220 22ND AVENUE NE, HICKORY, NC
TAX ACREAGE	13.42 AC
TAX PARCEL NO.	371308977949 / 371308986633 / 371008977632
ZONING	O1 (OFFICE AND INSTITUTIONAL)
JURISDICTION	CITY OF HICKORY (WATER QUALITY REVIEW); NCDEQ (EROSION CONTROL)
WATERSHED DISTRICT	LAKE HICKORY
FEMA RIVER BASIN	WITHIN FLOOD ZONE
SETBACK	CATAWBA
MAXIMUM BLDG HEIGHT	20' FRONT & REAR; 20' SIDE (ADJACENT TO RESIDENTIAL DISTRICT)
EXISTING PARKING	55'
PROVIDED PARKING	0 REGULAR SPACES + 0 ADA SPACES
UTILITY (WATER)	17 REGULAR SPACES + 2 ADA SPACES = 19 SPACES TOTAL
UTILITY (SEWER)	CITY OF HICKORY
PROPOSED IMPERVIOUS AREA	CITY OF HICKORY
DISTURBED AREA	0.685 AC
BUILT-UPON AREA EX	2.50 AC
BUILT-UPON AREA PR	0.044 AC (0.33%)
BUILT-UPON AREA TOTAL	0.685 AC (5.11%) 5.44%

LEGEND

EXISTING SIGN	EXISTING CURB AND GUTTER
PROPOSED SIGN	PROPOSED CURB AND GUTTER
EXISTING IRON PIN	PROPOSED FLUSH CURB AND GUTTER
EXISTING LIGHT POLE	PROPERTY LINE
EXISTING UTILITY POLE	EXISTING EASEMENT
RIGHT-OF-WAY	EXISTING FENCE
ACCESSIBLE SPACE	PROPOSED FENCE
EXISTING TREE TO REMAIN	EXISTING OVERHEAD UTILITY LINE
EXISTING FIRE HYDRANT	EXISTING ASPHALT PAVEMENT
# OF PARKING SPACES	PROPOSED STANDARD DUTY ASPHALT PAVEMENT
CENTERLINE	PROPOSED HEAVY DUTY ASPHALT PAVEMENT
ACCESSIBLE RAMP	PROPOSED ASPHALT TRAIL
PROPOSED BOLLARD	PROPOSED STEEP ASPHALT TRAIL SECTION
	PROPOSED ROAD REPAIR



Sandy Pines Park "Initial Phase"

2301 21st Avenue NE
Hickory, North Carolina

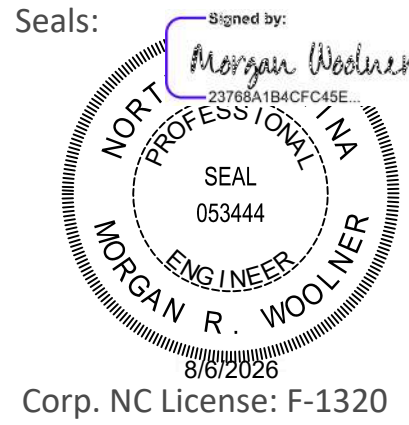
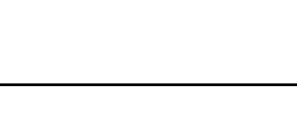
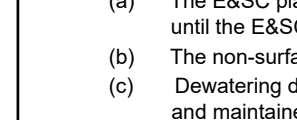
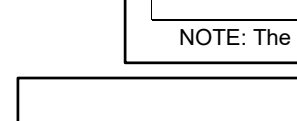
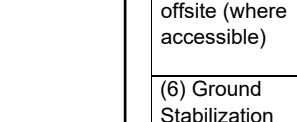
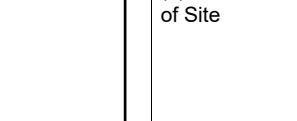
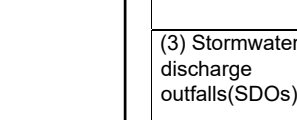
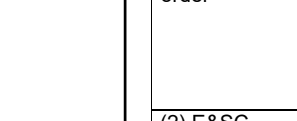
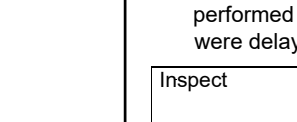
Project no: 1726-500006.00
Date: 07.17.26
Revisions:

Sheet Title:

SITE PLAN

Sheet No:

C200



Sandy Pines Park
"Initial Phase"
2301 21st Avenue NE
Hickory, North Carolina

Project no: 1726.500006.00

Date: 07.17.26

Revisions:
Replaced Self-inspection and Ground Stabilization notes to reflect the update effective 4/1/2024. Per NCEQ intake review

Sheet Title:

EROSION CONTROL NOTES

Sheet No:

C300

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications on this sheet may not be applicable depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timelines		
Site Area Description	Timeframe	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10 feet or less in length and are not steeper than 2:1, 14 days are allowed. -7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(d) Slopes 3:1 to 4:1	14	
(e) Areas with slopes flatter than 4:1	14	

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
• Temporary grass seed covered with straw or other mulches and tackifiers. • Hydroseeding • Rolled erosion control products with or without temporary grass seed • Appropriately applied straw or other mulch • Plastic sheeting	• Permanent grass seed covered with straw or other mulches and tackifiers • Geotextile fabrics such as permanent soil reinforcement matting (PRSM) • Hydroseeding • Shrubs or other permanent plantings • Uniform and evenly distributed ground cover sufficient to restrain erosion • Structural methods such as concrete, asphalt or retaining walls • Rolled erosion control products with grass seed

Note: The use of techniques listed above which promote and assist in establishment of vegetation does not constitute permanent stabilization prior to the establishment of permanent vegetation.

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the NC DWR List of Approved PAMS/Flocculants
- Apply flocculants at or before the Erosion and Sediment Control Measures.
- Apply flocculants at the concentrations specified in the NC DWR List of Approved PAMS/Flocculants and in accordance with the manufacturer's instructions.
- Provide ponding area for containment of treated Stormwater before discharging offsite.
- Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

- Maintain vehicles and equipment to prevent discharge of fluids.
- Provide drip pans under any stored equipment.
- Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
- Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
- Remove leaking vehicles and construction equipment from service until the problem has been corrected.
- Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

- Never bury or burn waste. Place litter and debris in approved waste containers.
- Provide a sufficient number and size of waste containers (e.g. dumpster, trash receptacle) on site to contain construction and domestic wastes.
- Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
- Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- Anchor all lightweight items in waste containers during times of high winds.
- Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- Dispose waste off-site at an approved disposal facility.
- On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, sized and placed appropriately for the needs of site.
- Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands, and at least 50 feet away from storm drain inlets and surface waters unless it can be shown no other alternatives are reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
- Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
- Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets and surface waters unless it can be shown no other alternatives are reasonably available. It is recommended to locate stockpile areas at least 50 feet away from skimmer basins and anywhere stormwater flow is concentrated.
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

HAZARDOUS AND TOXIC WASTE

- Create designated hazardous waste collection areas on-site.
- Place hazardous waste containers under cover or in secondary containment.
- Do not store hazardous chemicals, drums or bagged materials directly on the ground.

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER

SECTION A-A

SECTION B-B

CONCRETE WASHOUTS

- Do not discharge concrete or cement slurry from the site.
- Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within silt perimeter silt fence.
- Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
- Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
- Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
- Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
- Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
- Remove loadings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
- At the completion of the concrete work, remove remaining loadings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
- Do not stockpile these materials onsite.

Effective:
April 1, 2024

GROUND COVER & MATERIALS HANDLING

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend on holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "Zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours.	1. Identification of the measures inspected 2. Date and Time of the inspection 3. Name of the person performing the inspection 4. Indication of whether the measures were operating properly 5. Description of maintenance needs for the measure 6. Description, Evidence, and date of corrective actions taken
(3) Stormwater discharge outlets(SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours.	1. Identification of the discharge outlets inspected 2. Date and Time of the inspection 3. Name of the person performing the inspection 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration 5. Indication of visible sediment leaving the site 6. Description, Evidence, and date corrective actions taken
(4) Perimeter of Site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours.	If visible Sedimentation is found outside site limits, then record of the following shall be made: 1) Actions taken to clean up or stabilize sediment that has left the site limits 2) Description, Evidence and date of corrective actions taken 3) An explanation as to the actions taken to control future releases
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours.	If the stream or wetland has increased visible sedimentation or has visible increased turbidity from the construction activity, then a record of the following shall be made: 1) Description, Evidence and date of corrective actions taken 2) Records of required reports to the appropriate Division Regional Office per Part II, Section C, Item(2)(a) of this permit
(6) Ground Stabilization Measures	After each phase of grading.	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or assurance that they will be provided as soon as possible

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Document Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site

In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- This General Permit as well as the Certificate of Coverage, after it is received.
- Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.
- Documentation to be Retained for Three Years*
*All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

- Visible sediment deposition in a stream or wetland.
- Oil spills if:
 - They are 25 gallons or more.
 - They are less than 25 gallons but cannot be cleaned up within 24 hours,
 - They cause sheen on surface waters (regardless of volume), or
 - They are within 100 feet of surface waters (regardless of volume).
- Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- Anticipated bypasses and unanticipated bypasses.
- Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timeframe (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• Within 24 hours, an oral or electronic notification. • Within 7 Calendar Days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related caused, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	• Within 24 Hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• Within 24 Hours, an oral or electronic notification • Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(i)(7)]	• Within 24 Hours, an oral or electronic notification • Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate and prevent recurrence of the noncompliance. [40 CFR 122.41(i)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

CONSTRUCTION SEQUENCE:

- SUBMIT NOTICE OF INTENT (NOI) TO NCEQ.
- CONTACT NC DENR EROSION CONTROL INSPECTOR TO INFORM HIM THAT CONSTRUCTION IS READY TO BEGIN.
- CONDUCT A PRE CONSTRUCTION ONSITE MEETING WITH THE OWNER, CONTRACTOR, AND EROSION CONTROL INSPECTOR.
- CLEARING ONLY AS NECESSARY. INSTALL CONSTRUCTION ENTRANCE. SILT FENCE, TEMPORARY DIVERSION SWALES, AND EROSION CONTROL DEVICES AS SHOWN ON SHEET C301 FOR THE PRE-EROSION CONTROL PHASE. COMPLETE A SELF INSPECTION REPORT FOR THIS PHASE OF CONSTRUCTION (SEE SELF INSPECTION REQUIREMENTS, THIS SHEET).
- TEMP. SEED ALL NEW DENUDED AREAS FROM THE INSTALLATION OF ANY NEWLY INSTALLED EROSION CONTROL MEASURES.
- CLEAR REMAINING VEGETATION WITHIN PROJECT LIMITS IF NEEDED.
- BEGIN BRINGING SITE UP TO GRADE. INSTALL TEMPORARY INLET PROTECTION, EROSION CONTROL DEVICES & TEMPORARY DIVERSION SWALES AS SHOWN ON SHEET C302 AS SITE IS CONSTRUCTED TO FINAL GRADE. INSTALL ADDITIONAL INLET PROTECTION AS NEEDED WHEN SITE IS BEING BROUGHT UP TO GRADE AND STORM DRAINAGE IS INSTALLED.
- COMPLETE SELF INSPECTION REPORT ONCE ALL EROSION CONTROL DEVICES AND BMPs HAVE BEEN INSTALLED AND STABILIZED. CHECK FOR DIMENSIONS SPECIFIED IN THE PLANS.
- CONSTRUCT ALL HARDSCAPING.
- SEE SEEDING SCHEDULE FOR SEED TYPE, DATES, AND RATES.
- COMPLETE ALL CONSTRUCTION WITHIN THESE PROJECT LIMITS. STABILIZE DENUDED AREAS IF THEY WILL REMAIN OPEN FOR MORE THAN 7 DAYS.
- EROSION CONTROL MEASURES (FENCES, DIVERSION DITCHES) DIRECTLY AFFECTED BY THIS CONTRACT SHALL BE MAINTAINED/REMOVED UNDER THIS CONTRACT. DEVICES SHALL BE MAINTAINED TO MAX. 50% CAPACITY UNTIL AREAS THEY SERVE ARE FULLY STABILIZED.
- PROVIDE PERMANENT GRASSING FOR ALL DISTURBED AREAS.
- CONTACT NC DENR FOR PERMISSION TO REMOVE EROSION CONTROL DEVICES.
- REMOVE ALL EROSION CONTROL DEVICES. SPREAD AND SEED ACCUMULATED SEDIMENT.
- SUBMIT NOTICE OF TERMINATION (NOT) TO NC DEQ.
- CONSTRUCT ALL HARDSCAPING NOT INSTALLED WHILE THE EROSION CONTROL DEVICES WERE IN PLACE.
- ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE N.C. EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, U.S. DEPT. OF AGRICULTURE, AND THE SCS EROSION CONTROL ORDINANCE.
- THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION. THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE NC DENR SO THAT PERIODIC INSPECTIONS CAN BE CONDUCTED AT APPROPRIATE STAGES OF CONSTRUCTION.
- ESTIMATED TIME BEFORE FINAL STABILIZATION IS 6 MONTHS.

SELF INSPECTION REQUIREMENTS

- SELF-INSPECTIONS WILL BE PERFORMED IN ACCORDANCE WITH THE NPDES GENERAL PERMIT FOR CONSTRUCTION ACTIVITIES NCG010000.
- ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES, INCLUDING SEDIMENTATION CONTROL BASINS, SEDIMENTATION TRAPS, SEDIMENTATION PONDS, ROCK DAMS, TEMPORARY DIVERSIONS, TEMPORARY SLOPE DRAINS, ROCK CHECK DAMS, SEDIMENT FENCE OR BARRIERS, ALL FORMS OF INLET PROTECTION, STORM DRAINAGE FACILITIES, ENERGY DISSIPATORS, STABILIZATION METHODS OF OPEN CHANNELS, AND GROUND COVER SHALL BE INSPECTED BY THE GENERAL CONTRACTOR.
- THE DIMENSIONS OF THE BASINS SHALL BE CHECKED AND COMPARED TO THE DIMENSIONS ON THE APPROVED SEDIMENTATION AND EROSION CONTROL PLAN. NOTIFY BENESCH IF THE DIMENSIONS OF ANY OF THE EROSION CONTROL MEASURES DEViate FROM THE PLANS.
- A "SELF-INSPECTION REPORT FORM FOR LAND DISTURBING ACTIVITY" (AS REQUIRED BY NCGS 113A-54.1) IS AVAILABLE ON THE NCEQ WEBSITE OR PROVIDED WITHIN THE PROJECT MANUAL. ALTERNATIVELY THE OWNER OR DESIGNATED REPRESENTATIVE COMPLETING THE INSPECTIONS MAY MAKE NOTATIONS ON THE COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN THAT IS KEPT ON THE PROJECT SITE. DOCUMENTATION SHALL BE ACCOMPLISHED BY INITIALING AND DATING EACH MEASURE OR PRACTICE SHOWN ON A COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN OR BY COMPLETING, DATING AND SIGNING AN INSPECTION REPORT THAT LISTS EACH MEASURE, PRACTICE OR DEVICE SHOWN ON THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN. ALL DOCUMENTATION AND/OR REPORTS OF INSPECTIONS MUST BE MADE AVAILABLE ON THE SITE.
- THE SELF-INSPECTION REPORT IS TO BE COMPLETED AFTER EACH PHASE OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS COMPLETE. THESE PHASES APPLY FOR THIS PROJECT:
 - INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROL MEASURES;
 - CLEARING AND GRUBBING OF EXISTING GROUND COVER;
 - COMPLETION OF ANY PHASE OF GRADING OF SLOPES OR FILLS;
 - INSTALLATION OF STORM DRAINAGE FACILITIES;
 - COMPLETION OF CONSTRUCTION OR DEVELOPMENT;
 - ESTABLISHMENT OF PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION.

MAINTENANCE PLAN:

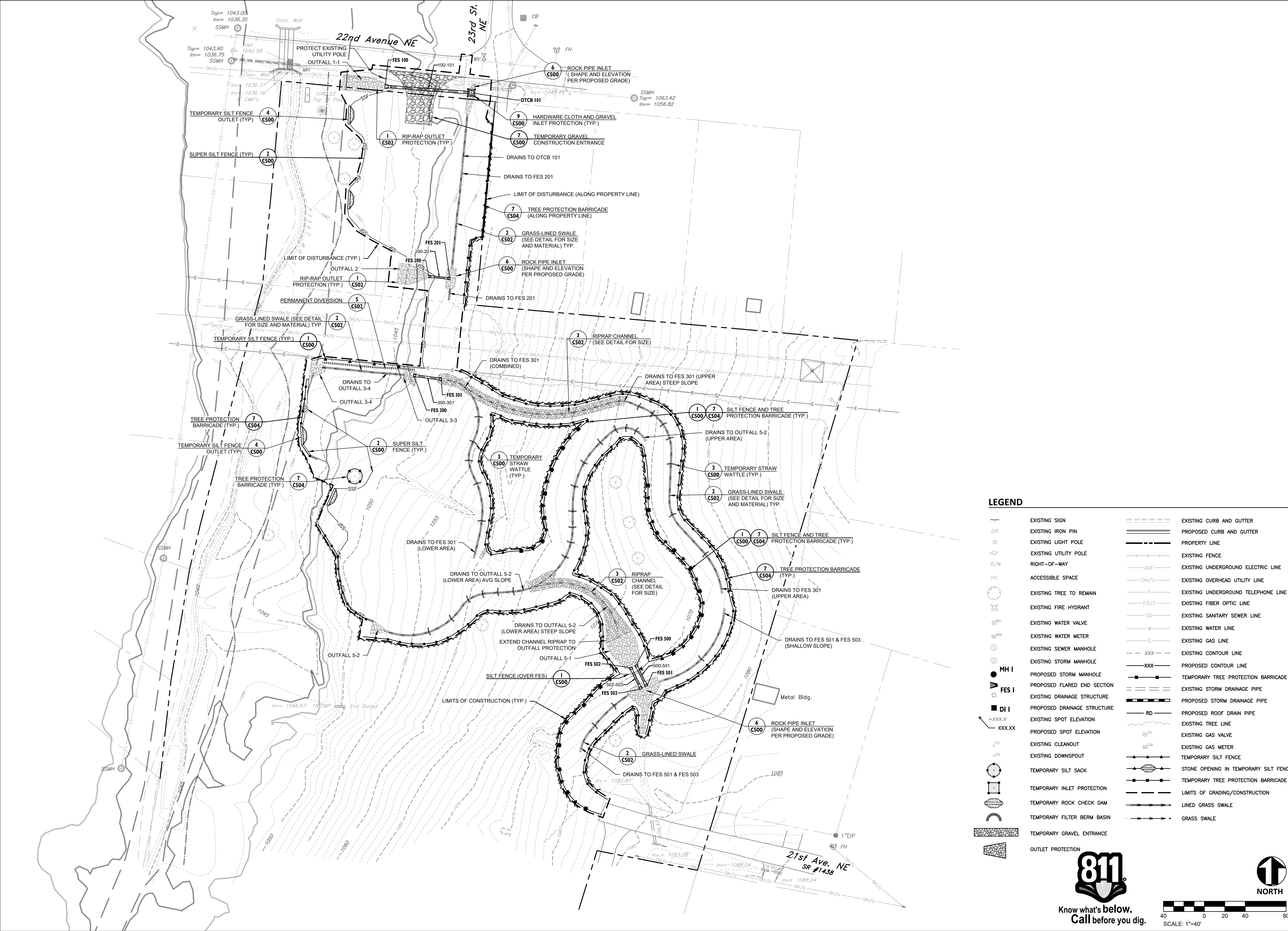
- ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL, BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGN.
- SEDIMENT WILL BE REMOVED FROM THE TEMPORARY SEDIMENT TRAPS WHEN STORAGE CAPACITY HAS BEEN APPROXIMATELY 50% FILLED. GRAVEL WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS PROPERLY.
- SEDIMENT WILL BE REMOVED FROM BEHIND THE SILT FENCE WHEN IT BECOMES ABOUT 0.5 FEET DEEP AT THE FENCE.
- THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER. THE ENGINEER MAY DIRECT THAT ADDITIONAL SILT FENCING OR EROSION CONTROL MATTING BE INSTALLED AT ANY TIME PRIOR TO FINAL ACCEPTANCE.
- ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS INCLUDED IN THESE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGINEER IN WRITING.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED ONCE THE ENTIRE SITE IS STABILIZED.
- CONTACT PERSON RESPONSIBLE FOR EROSION CONTROL MAINTENANCE:

Effective:
April 1, 2024

INSPECTION, RECORD KEEPING AND REPORTING

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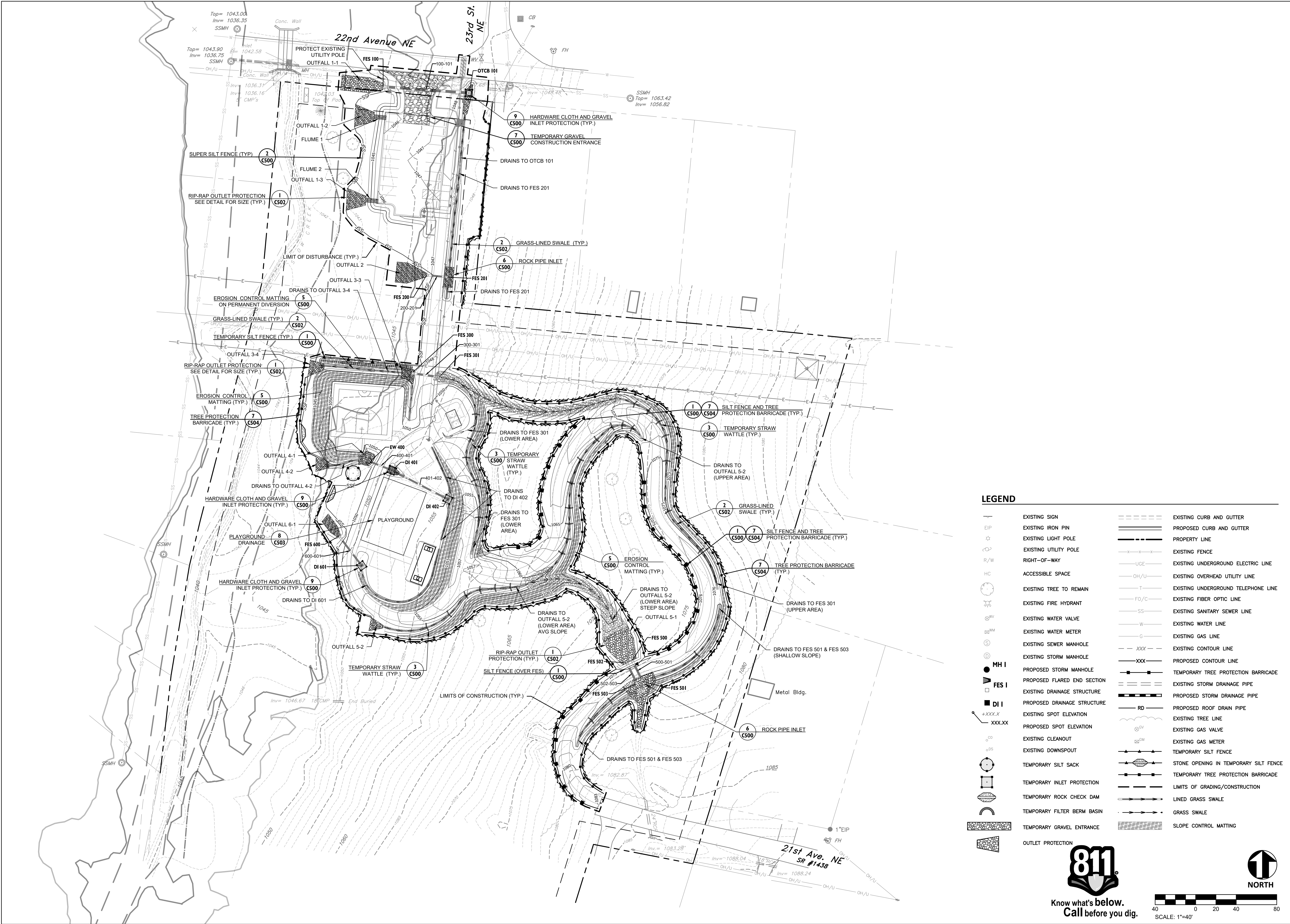
Sandy Pines Park "Initial Phase"

Project no: 1726.500006.00
Date: 07.17.26
Revisions:

Sheet Title:
INITIAL EROSION
CONTROL PLAN

Sheet No:
C301

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Seals:
Signed by:
Morgan R. Woollier
Professional Engineer
Seal
053444
7/30/2026
Corp. NC license: F-1320

Sandy Pines Park "Initial Phase"

2301 21st Avenue NE
Hickory, North Carolina

Project no: 1726.500006.00
Date: 07.17.26
Revisions:

Sheet Title:
FINAL EROSION
CONTROL PLAN

Sheet No:
C302



STORM SEWER STRUCTURE & PIPE SCHEDULE								
UPSTREAM STR.	UPSTREAM RIM EL.	INVERT(S) IN	INVERT OUT	DOWNSTEAM STR.	D.S. PIPE LENGTH (FT)	D.S. PIPE DIA (IN)	D.S. PIPE MATERIAL	D.S. PIPE SLOPE (FT/FT)
FES 100		1042.34 (24" - OTCB 101)						
FES 200		1044.55 (15" - FES 201)						
FES 300		1045.00 (18" - FES 301)						
FES 600		1047.13 (15" - DI 601)						
EW 400	1048.69	1046.75 (15" - DI 401)						
FES 502		1072.09 (18" - FES 503)						
FES 500		1072.09 (18" - FES 501)						
OTCB 101	1046.51		1042.76	FES 100	85	24	RCP	0.005
FES 201			1044.76	FES 200	21	15	RCP	0.010
FES 301			1046.01	FES 300	28	18	RCP	0.037
DI 401	1050.37	1047.58 (6" -)	1046.94	EW 400	23	15	RCP	0.008
DI 402	1050.59	1046.94 (15" - DI 402)						
FES 501			1047.56	DI 401	62	15	RCP	0.010
FES 503			1072.24	FES 500	23	18	RCP	0.006
DI 601	1050.25		1072.24	FES 502	23	18	RCP	0.006
			1047.31	FES 600	36	15	RCP	0.005

GRADING AND DRAINAGE NOTES

- EARTHWORK QUANTITIES HAVE NOT BEEN ESTIMATED AND SITE AS SHOWN IS NOT ASSUMED TO REPRESENT A BALANCED CUT/FILL CONDITION.
- CONTRACTOR SHALL PERFORM HIS OWN ESTIMATES AND SHALL PROVIDE ALL EARTHWORK NECESSARY TO ACHIEVE THE DESIGN GRADE, INCLUDING ANY OFFSITE BORROW OR SPOILS REQUIRED.
- ROOF LEADERS SHALL BE SCH 40 PVC. MINIMUM COVER SHALL BE 18". MINIMUM SLOPE SHALL BE 1%. PROVIDE CLEANOUTS AT ALL CONNECTIONS WITH BUILDING DRAIN AND WHERE INDICATED. REFER TO ARCHITECTURAL DWGS. FOR THE EXACT LOCATION OF ROOF DRAINS AT THE BUILDING.
- CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE IN ALL GRADED AREAS, INCLUDING PAVING, LAWN AND LANDSCAPE AREAS.
- THE CONTRACTOR SHALL IMMEDIATELY REPORT TO OWNER ANY DISCREPANCIES FOUND BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS AND SHALL WAIT FOR INSTRUCTION PRIOR TO PROCEEDING.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK. BOTH PUBLIC AND PRIVATE. CONTRACTOR IS FULLY RESPONSIBLE FOR ALL UNDERGROUND UTILITIES AND SHALL REPAIR ANY DAMAGE AS A RESULT OF THIS CONTRACT.
- CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE.
- THE PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN IN DRIVES, PARKING LOTS AND SIDEWALKS ARE FINISHED ELEVATIONS INCLUDING ASPHALT. REFER TO PAVEMENT CROSS SECTION DATA TO ESTABLISH CORRECT SUBBASE OR AGGREGATE BASE COURSE ELEVATIONS TO BE COMPLETED UNDER THIS CONTRACT.
- PROPOSED SPOT ELEVATIONS SHOWN REFER TO BOTTOM OF CURB UNLESS OTHERWISE NOTED ON PLAN.
- PIPE LENGTHS SHOWN ARE THE ENGINEER'S ESTIMATE USED TO COMPUTE PIPE SLOPES AND INVERTS AND SHALL NOT BE CONSTURED BY THE CONTRACTOR TO REPRESENT THE ACTUAL QUANTITY OF PIPE REQUIRED.
- CROSS SLOPE OF SIDEWALKS SHALL BE 2% (MAX).
- SLOPES SHALL BE GRADED NO STEEPER THAN 2:1
- NO DISTURBANCE OR COMPACTION, CONSTRUCTION MATERIALS, TRAFFIC, BURIAL PITS, TRENCHING OR OTHER LAND DISTURBING ACTIVITY ALLOWED IN THE TREE PROTECTION ZONE. TREE BARRICADES MUST BE INSTALLED BEFORE ANY DEMOLITION, GRADING OR CONSTRUCTION BEGINS, AND NOT REMOVED UNTIL FINAL INSPECTION.
- NO GRUBBING WITHIN TREE PROTECTION ZONE. LEAVE SOIL AND LEAF LITTER UNDISTURBED. SUPPLEMENT WITH 1-2 INCHES OF MULCH. RE-SEED WITH GRASS ONLY IN DISTURBED/GRADED AREAS.
- BRUSH, VINES AND SMALL TREES (<8 IN. DIA., OR AS SMALL AS 2 IN. CALIPER) MAY BE HAND CLEARED ONLY CUT FLUSH WITH GROUND SURFACE. EXISTING TREES MAY BE LIMBED UP 6 FEET (AT LEAST 2/3 OF THE BRANCHES SHOULD BE LEFT) TO IMPROVE VISIBILITY.
- EXPOSED TREE ROOTS MUST BE CLEANLY CUT WITH A SHARP PRUNING TOOL; BACKFILL ASAP TO MINIMIZE EXPOSURE TO THE AIR.
- UNLESS OTHERWISE NOTED, THE PHYSICAL CONNECTION TO THE DOWNSPOUTS INSTALLED BY THE ROOFING CONTRACTOR BETWEEN THE SITE ROOF DRAIN PIPE A SHALL BE MADE BY THE SITE GRADING CONTRACTOR.
- PIPE LENGTHS SHOWN ON CULVERTS INCLUDE FLARED END SECTIONS UNLESS SPECIFIED OTHERWISE.
- IN ORDER TO ENSURE ADEQUATE DRAINAGE, FLOW LINES IN GUTTERS SHALL BE 0.50% MINIMUM.

LEGEND

- | | |
|-----------------------------|---------------------------------------|
| EXISTING SIGN | EXISTING CURB AND GUTTER |
| EXISTING IRON PIN | PROPOSED CURB AND GUTTER |
| EXISTING LIGHT POLE | PROPERTY LINE |
| EXISTING UTILITY POLE | EXISTING FENCE |
| RIGHT-OF-WAY | EXISTING UNDERGROUND ELECTRIC LINE |
| ACCESSIBLE SPACE | EXISTING OVERHEAD UTILITY LINE |
| EXISTING TREE TO REMAIN | EXISTING UNDERGROUND TELEPHONE LINE |
| EXISTING FIRE HYDRANT | EXISTING FIBER OPTIC LINE |
| EXISTING WATER VALVE | EXISTING SANITARY SEWER LINE |
| EXISTING WATER METER | EXISTING WATER LINE |
| EXISTING SEWER MANHOLE | EXISTING GAS LINE |
| EXISTING STORM MANHOLE | EXISTING CONTOUR LINE |
| PROPOSED STORM MANHOLE | PROPOSED CONTOUR LINE |
| PROPOSED FLARED END SECTION | TEMPORARY TREE PROTECTION BARRICADE |
| EXISTING DRAINAGE STRUCTURE | EXISTING STORM DRAINAGE PIPE |
| PROPOSED DRAINAGE STRUCTURE | PROPOSED STORM DRAINAGE PIPE |
| EXISTING SPOT ELEVATION | PROPOSED ROOF DRAIN PIPE |
| PROPOSED SPOT ELEVATION | EXISTING TREE LINE |
| EXISTING CLEANOUT | EXISTING GAS VALVE |
| EXISTING DOWNSPOUT | EXISTING GAS METER |
| TEMPORARY SILT SACK | TEMPORARY SILT FENCE |
| TEMPORARY INLET PROTECTION | STONE OPENING IN TEMPORARY SILT FENCE |
| TEMPORARY ROCK CHECK DAM | TEMPORARY TREE PROTECTION BARRICADE |
| TEMPORARY FILTER BERM BASIN | LIMITS OF GRADING/CONSTRUCTION |
| TEMPORARY GRAVEL ENTRANCE | LINED GRASS SWALE |
| OUTLET PROTECTION | GRASS SWALE |
| | SLOPE CONTROL MATTING |



Sandy Pines Park
"Initial Phase"

2301 21st Avenue NE
Hickory, North Carolina

Project no: 1726.500006.00
Date: 07.17.26
Revisions:

Sheet Title:

GRADING AND
DRAINAGE PLAN

Sheet No:

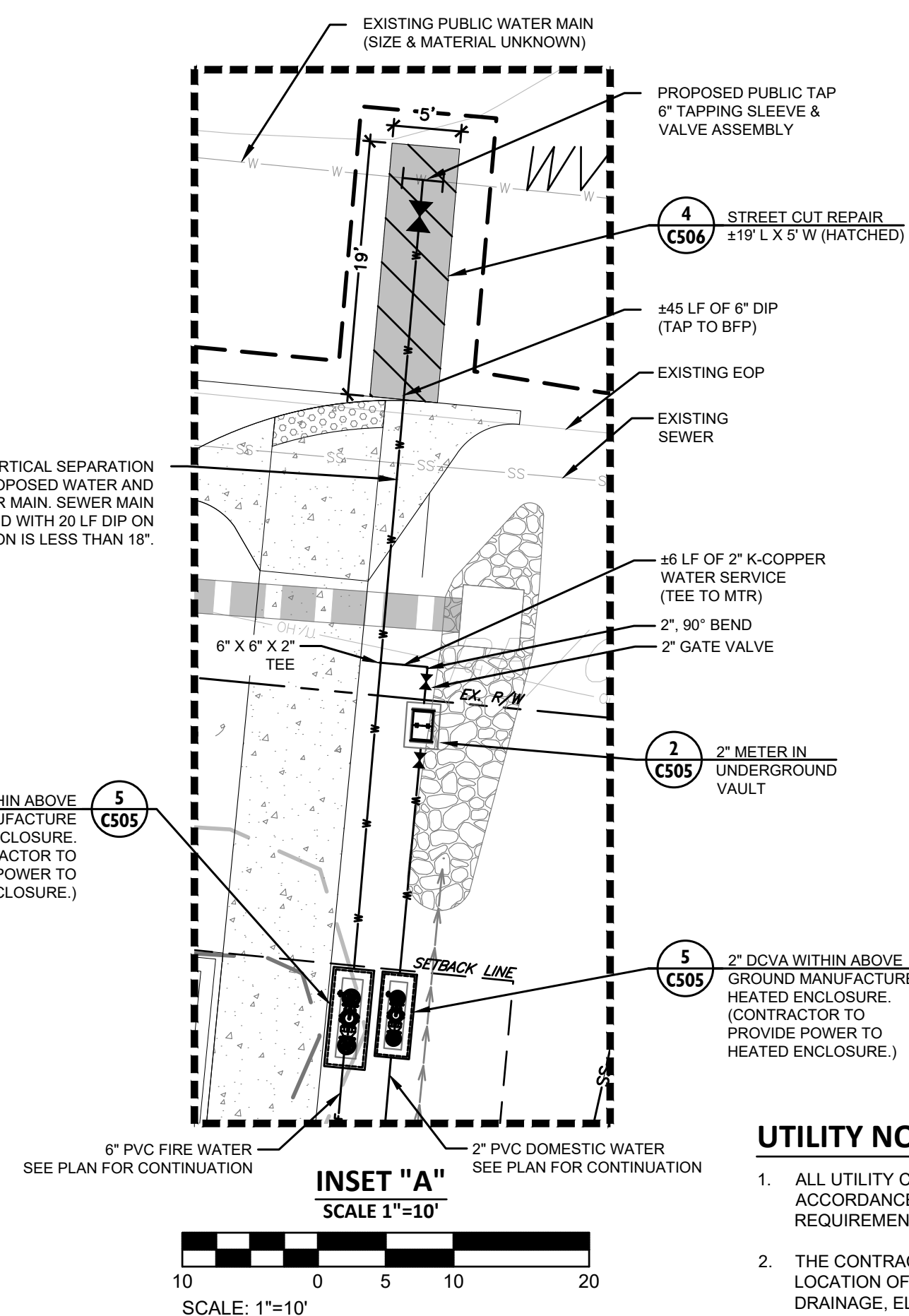
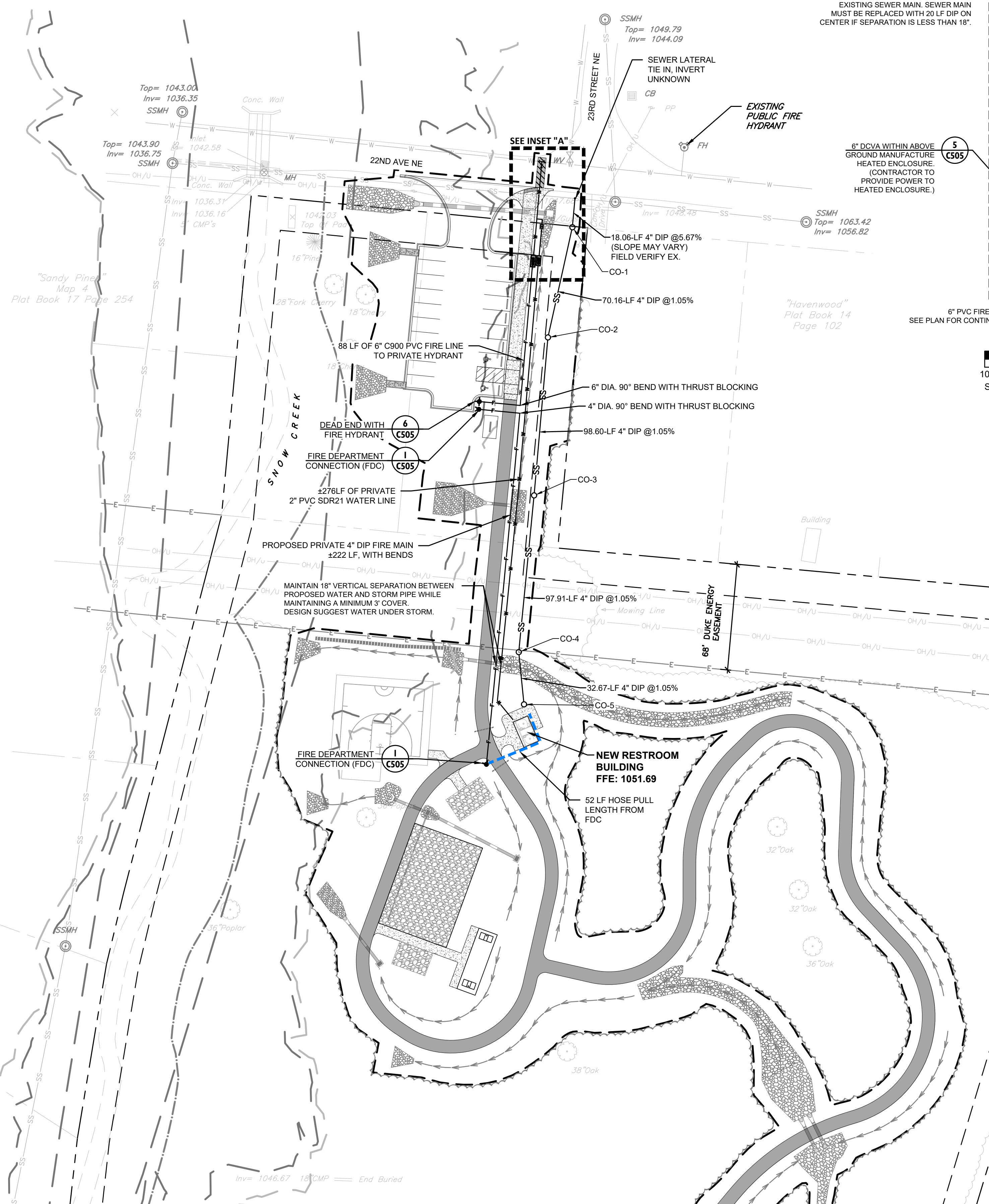
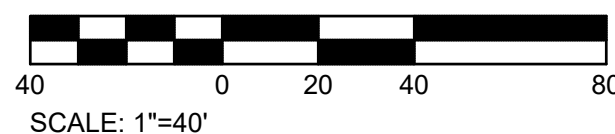
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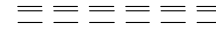
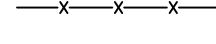
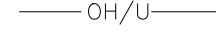
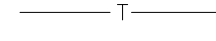
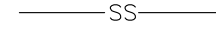
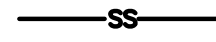
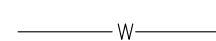
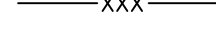
Signed by: *Morgan R. Woollier*
Professional Engineer
Seal 053444
MORGAN R. WOOLLIER
7/30/2026
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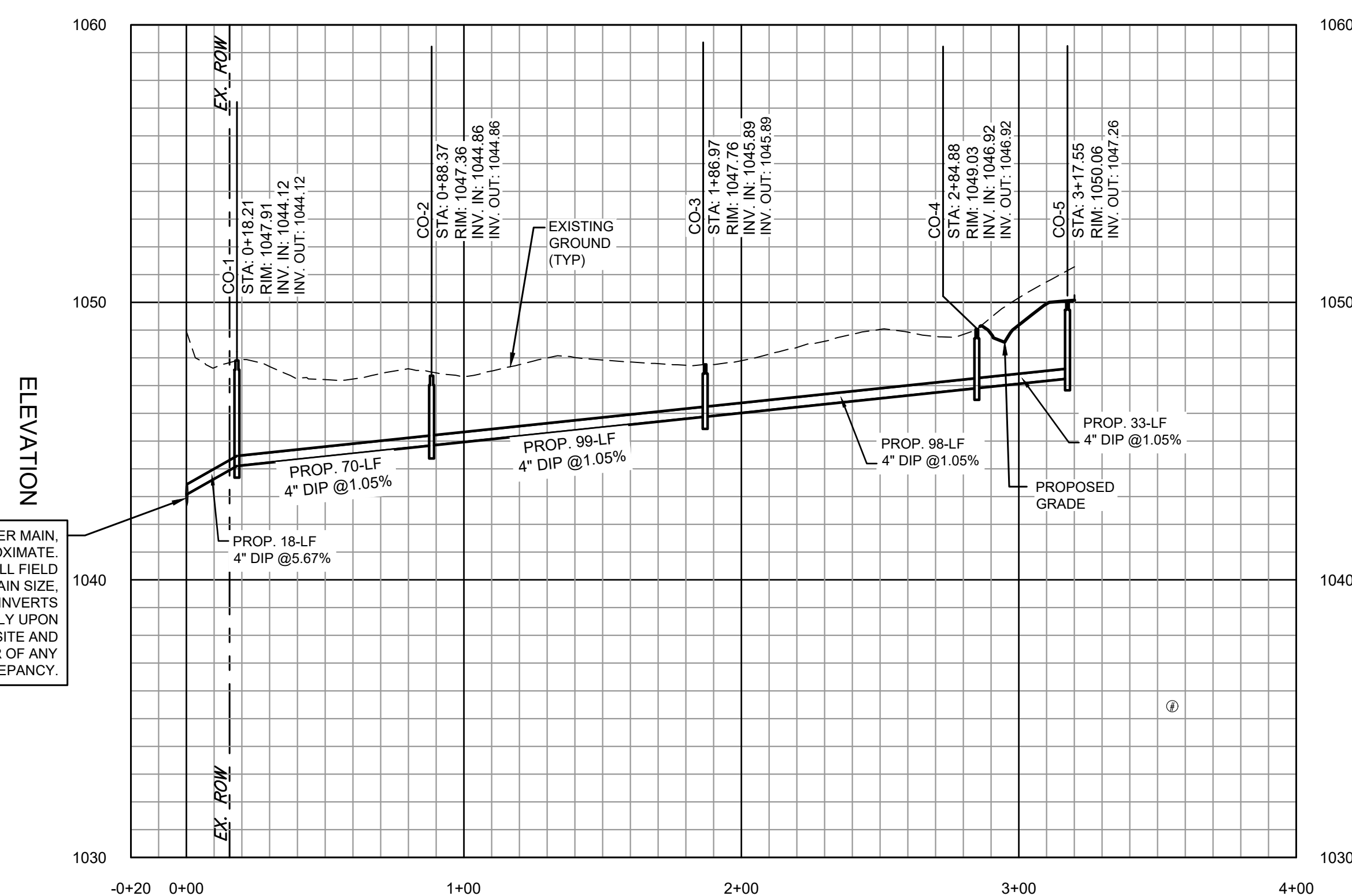


LEGEND

	EXISTING SIGN		EXISTING CURB AND GUTTER
	EXISTING IRON PIN		PROPOSED CURB AND GUTTER
	EXISTING LIGHT POLE		PROPERTY LINE
	PROPOSED LIGHT POLE		EXISTING FENCE
	EXISTING UTILITY POLE		EXISTING UNDERGROUND ELECTRIC LINE
	RIGHT-OF-WAY		EXISTING OVERHEAD ELECTRIC LINE
	EXISTING FIRE HYDRANT		EXISTING UNDERGROUND TELEPHONE LINE
	PROPOSED FIRE HYDRANT		EXISTING SANITARY SEWER LINE
	PROPOSED FIRE DEPT. CONNECTION		PROPOSED SANITARY SEWER LINE
	EXISTING WATER VALVE		EXISTING WATER LINE
	PROPOSED WATER VALVE		PROPOSED WATER LINE
	PROPOSED CHECK VALVE		PROPOSED DOMESTIC WATER LINE
	PROPOSED POST INDICATOR VALVE		PROPOSED FIRE LINE
	EXISTING WATER METER		EXISTING CONTOUR LINE
	PROPOSED WATER METER		PROPOSED CONTOUR LINE
	PROPOSED BACKFLOW PREVENTER		EXISTING STORM DRAINAGE PIPE
	EXISTING SEWER MANHOLE		PROPOSED STORM DRAINAGE PIPE
	PROPOSED SEWER MANHOLE		EXISTING GAS LINE
	EXISTING CLEANOUT		PROPOSED GAS LINE
	PROPOSED CLEANOUT		EXISTING STORM MANHOLE
	EXISTING DRAINAGE STRUCTURE		PROPOSED STORM MANHOLE
	PROPOSED DRAINAGE STRUCTURE		EXISTING EASEMENT
	EXISTING GAS VALVE		
	EXISTING GAS METER		

UTILITY NOTES

- | | | | |
|----|--|-----|--|
| 1. | ALL UTILITY CONSTRUCTION (PRIVATE AND PUBLIC) SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODE REQUIREMENTS. | 8. | UNLESS OTHERWISE NOTED, THE PHYSICAL CONNECTION BETWEEN THE SITE UTILITY LINES AND THE PIPE INSTALLED BY THE PLUMBING CONTRACTOR SHALL BE MADE BY THE SITE UTILITY CONTRACTOR. |
| 2. | THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES (STORM DRAINAGE, ELECTRIC, GAS, TELEPHONE, ETC.) PRIOR TO CONSTRUCTION. INFORMATION SHOWN ON THIS PLAN IS FOR REFERENCE ONLY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR. | 9. | PIPE LENGTHS SHOWN ON PLAN ARE THE ENGINEER'S ESTIMATE USED TO COMPUTE PIPE SLOPES AND INVERTS AND SHALL NOT BE CONSTRUED BY THE CONTRACTOR TO REPRESENT THE ACTUAL QUANTITY OF PIPE REQUIRED. |
| 3. | THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY IF ANY DISCREPANCIES BETWEEN THE CONSTRUCTION PLANS AND ACTUAL FIELD CONDITIONS ARE FOUND. | 10. | IF WATER LINE CROSSES OVER SANITARY SEWER WITH LESS THAN 18 INCHES VERTICAL CLEARANCE BOTH PIPES SHALL BE DUCTILE IRON 10" EACH SIDE. IF WATER CROSSES UNDER THE SEWER REGARDLESS OF CLEARANCE, BOTH PIPES SHALL BE DUCTILE IRON 10" EACH SIDE. IF WATER LINE RUNS PARALLEL TO SEWER LINE WITH LESS THAN 18" VERTICAL CLEARANCE AND LESS THAN 10' SIDE CLEARANCE BOTH PIPES SHALL BE DUCTILE IRON. |
| 4. | MINIMUM COVER FOR ALL SANITARY SEWER MAINS SHALL BE 3'-0". DUCTILE IRON PIPE SHALL BE SUBSTITUTED WHEN MINIMUM COVER CAN NOT BE MAINTAINED. | 11. | IF REQUIRED BY NUMBER 10 ABOVE, REPLACE EXISTING SEWER WITH DUCTILE IRON PIPE, CLASS 350 WORKING PRESSURE WITH GASKETED JOINTS, 10" EACH SIDE OF WATER MAIN. |
| 5. | THE STANDARD DEPTH OF COVER FOR WATER MAINS SHALL BE 3'-0" MIN. EXCEPT AT VALVE OR HYDRANT LOCATIONS, OR OTHER SPECIAL CONDITIONS. | 12. | THERE SHALL BE NO TAPS, PIPING BRANCHES, UNAPPROVED BYPASS PIPING, HYDRANTS, FIRE DEPT. CONNECTION POINTS, OR OTHER WATER-USING APPURTENANCES CONNECTED TO THE SUPPLY LINE BETWEEN ANY FLOW METER AND ITS CITY OF HICKORY REQUIRED BACKFLOW PREVENTER. |
| 6. | THE CONNECTION TO EXISTING WATER MAINS SHALL BE PERFORMED ONLY AFTER ALL PRESSURE TESTING AND CHLORINATION ARE SUCCESSFULLY COMPLETED AND THE LOCAL REVIEW AUTHORITY HAS APPROVED THE CONNECTION. THE CONTRACTOR SHALL AVOID DISRUPTION OF EXISTING SERVICE. | 13. | EACH REQUIRED BPA IS REQUIRED TO BE TESTED BY A CITY OF HICKORY APPROVED CERTIFIED TESTER PRIOR TO PLACING THE WATER SYSTEM IN SERVICE. |
| 7. | REFER TO PLUMBING DRAWING SERIES FOR THE LOCATION OF WATER AND SANITARY SEWER SERVICE CONNECTIONS AT THE BUILDING. | | |



Seals:



Corp. NC License: F-1320

Sandy Pines Park
"Initial Phase"
2301 21st Avenue NE
Hickory, North Carolina

Project no: 1726.500006.00

Date: 07.17.26

Revisions:

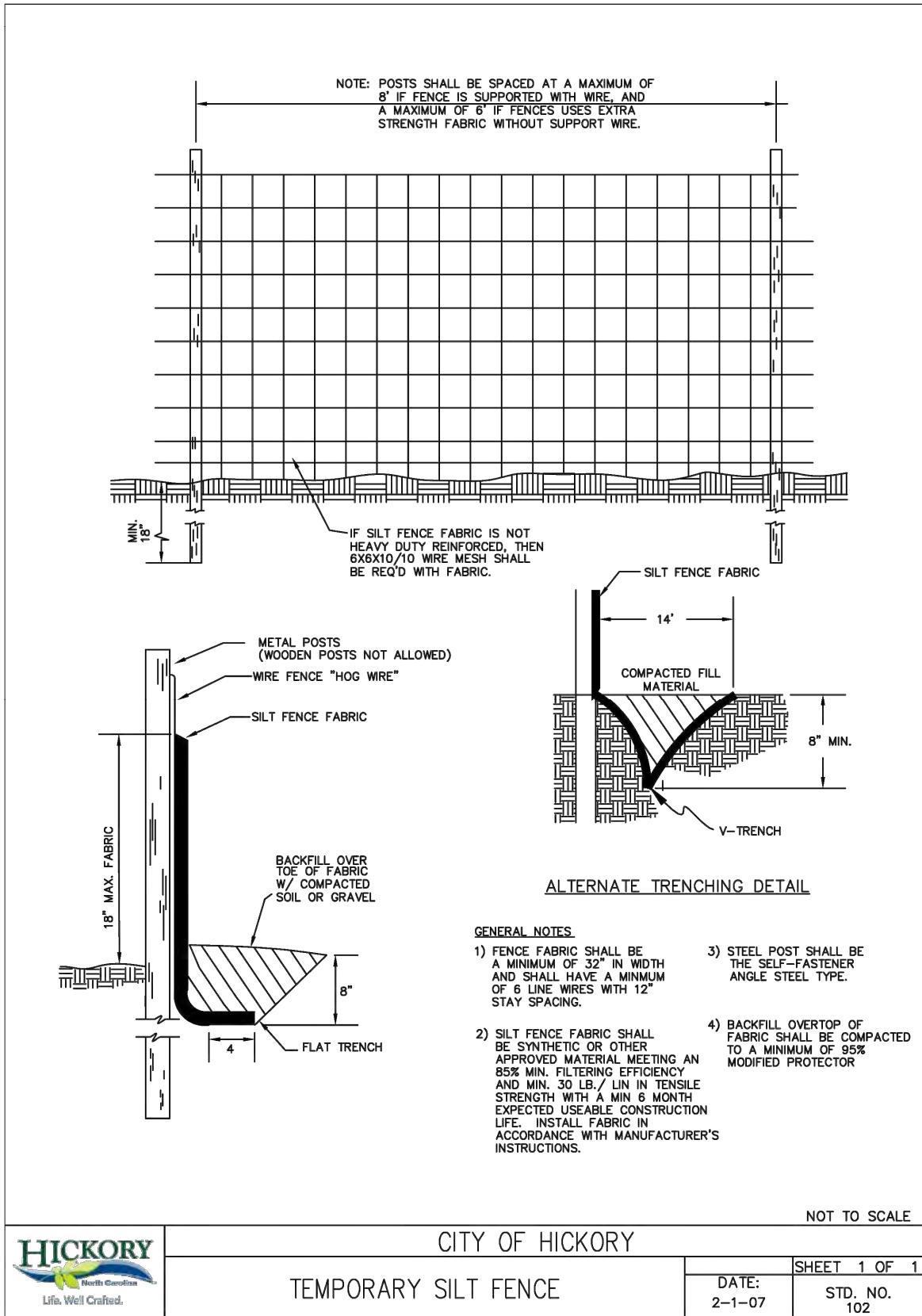
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UTILITY PLAN

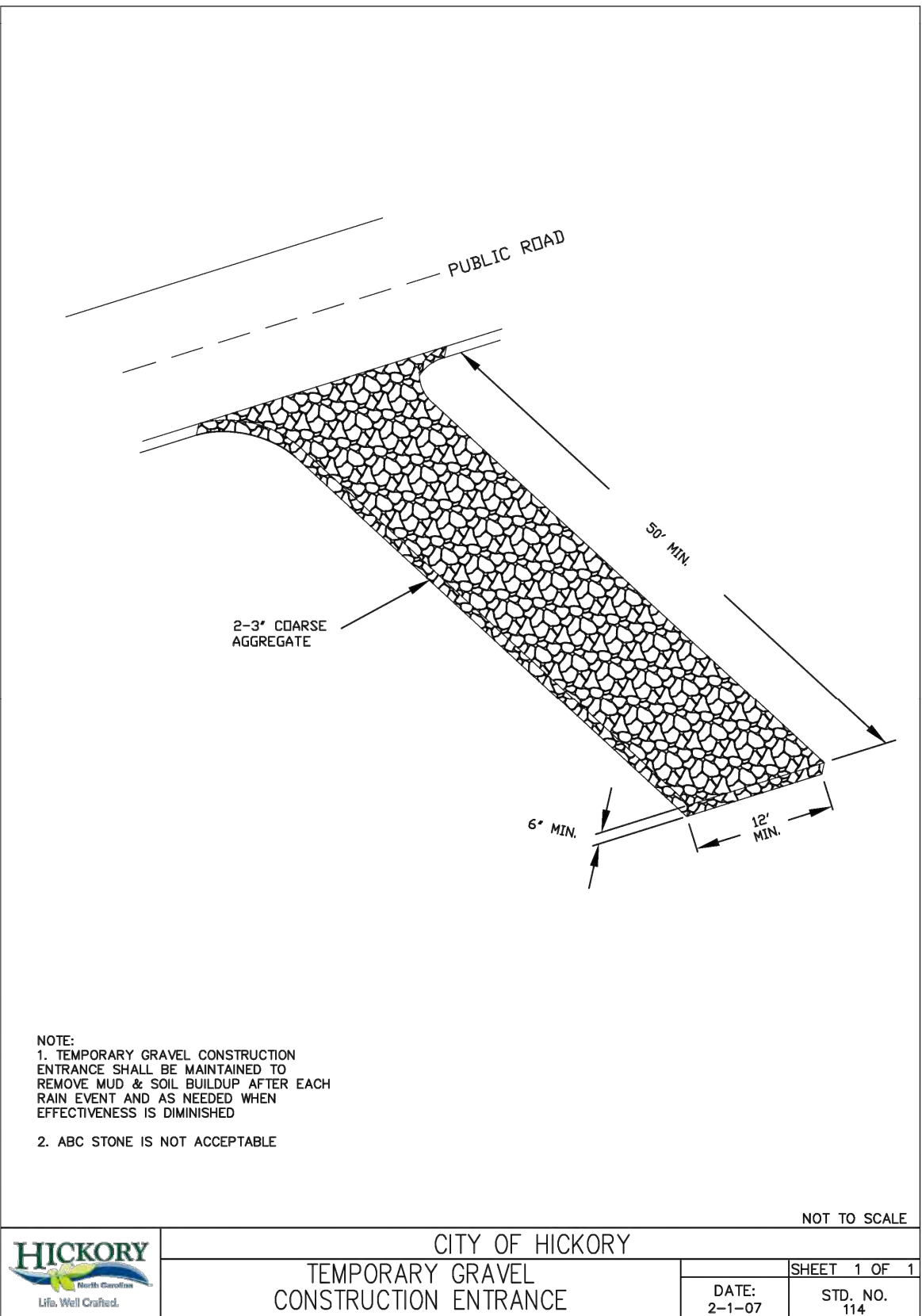
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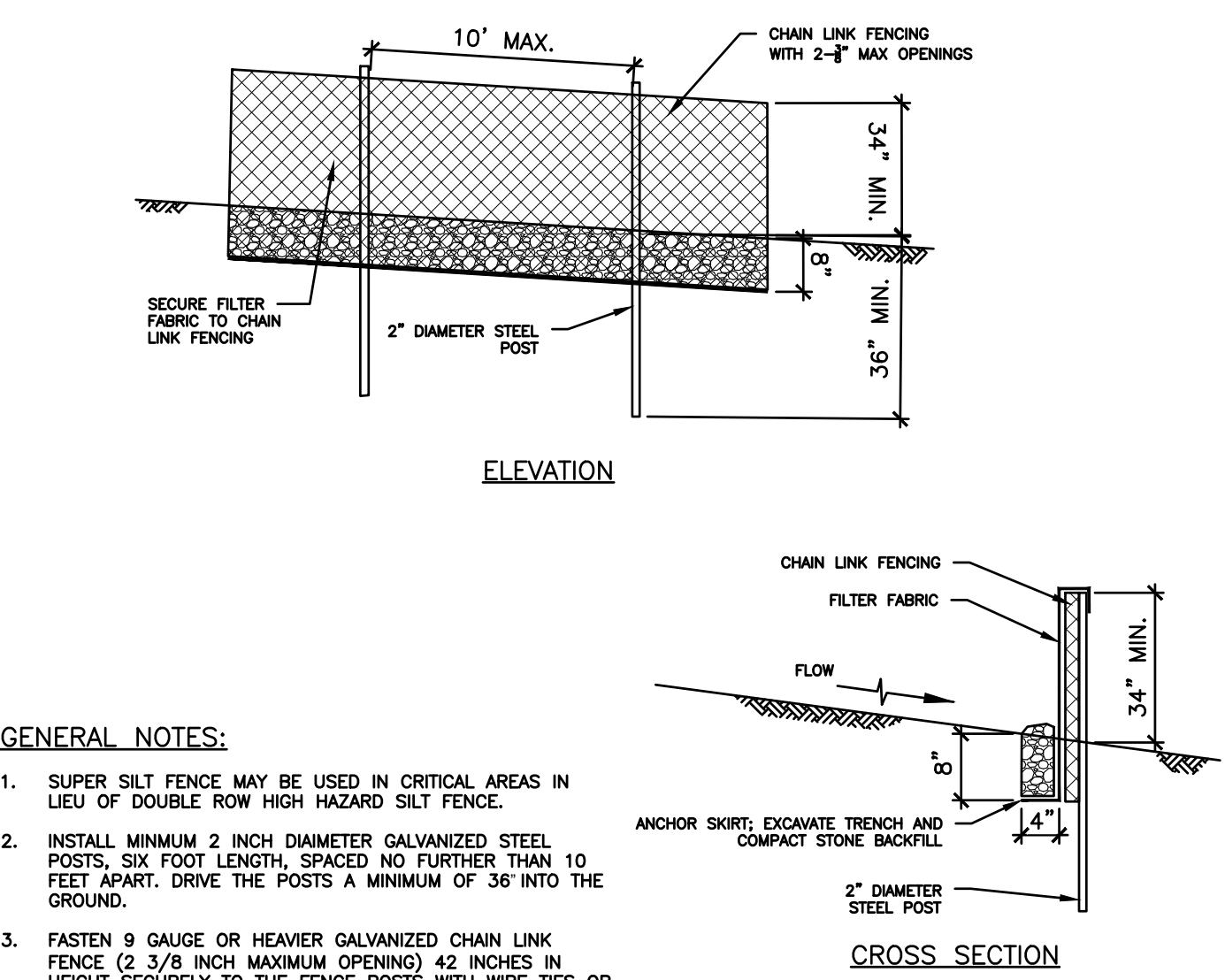
\\North Carolina\17XX-50S\1726-500006.00 SPPark Initial Phase\Eng Docs\Drawings\1726-500006.00-CD\1726-500006.00 C400 - UTILITY PLAN.dwg



1 Temporary Silt Fence
City of Hickory STD. 102



7 Temporary Gravel Construction Entrance
City of Hickory STD. 114



2 Super Silt Fence
N.T.S.

SEEDING MIXTURE

SPECIES RYE (GRAIN)

RATE (LB/ACRE) 120

SEEDING DATES

MOUNTAINS-AUG. 15 - DEC. 30

COASTAL PLAIN AND PIEDMONT-AUG. 15 - DEC. 30

SOIL AMENDMENTS

FOLLOW SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 1,000 LB/ACRE 10-10-10 FERTILIZER.

MULCH

APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE

REPAIR AND RE-FERTILIZE DAMAGED AREAS IMMEDIATELY. TOPDRESS WITH 50 LB/ACRE OF NITROGEN IN MARCH. IF NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/ACRE KOBE (PIEDMONT AND COASTAL PLAIN) OR KOREAN (MOUNTAINS) LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

TEMPORARY SEEDING RECOMMENDATIONS FOR FALL

SEEDING MIXTURE

SPECIES RYE (GRAIN)

RATE (LB/ACRE) 120

SEEDING DATES

MOUNTAINS-ABOVE 2500 FEET: FEB. 15 - MAY 15

PIEDMONT-MAY 1 - AUG. 15

BELOW 2500 FEET: FEB. 1 - MAY 1

COASTAL PLAIN-DEC. 1 - APRIL 15

SOIL AMENDMENTS

FOLLOW SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

MULCH

APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE

REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE, AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

TEMPORARY SEEDING RECOMMENDATIONS FOR LATE WINTER AND EARLY SPRING

SEEDING MIXTURE

SPECIES GERMAIN MILLET

RATE (LB/ACRE) 40

IN THE PIEDMONT AND MOUNTAINS, A SMALL-STEMMED SUDANGRASS MAY BE SUBSTITUTED AT A RATE OF 50 LB/ACRE.

SEEDING DATES

MOUNTAINS-MAY 15 - AUG. 15

PIEDMONT-MAY 1 - AUG. 15

COASTAL PLAIN-APR. 15 - AUG. 15

SOIL AMENDMENTS

FOLLOW SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

MULCH

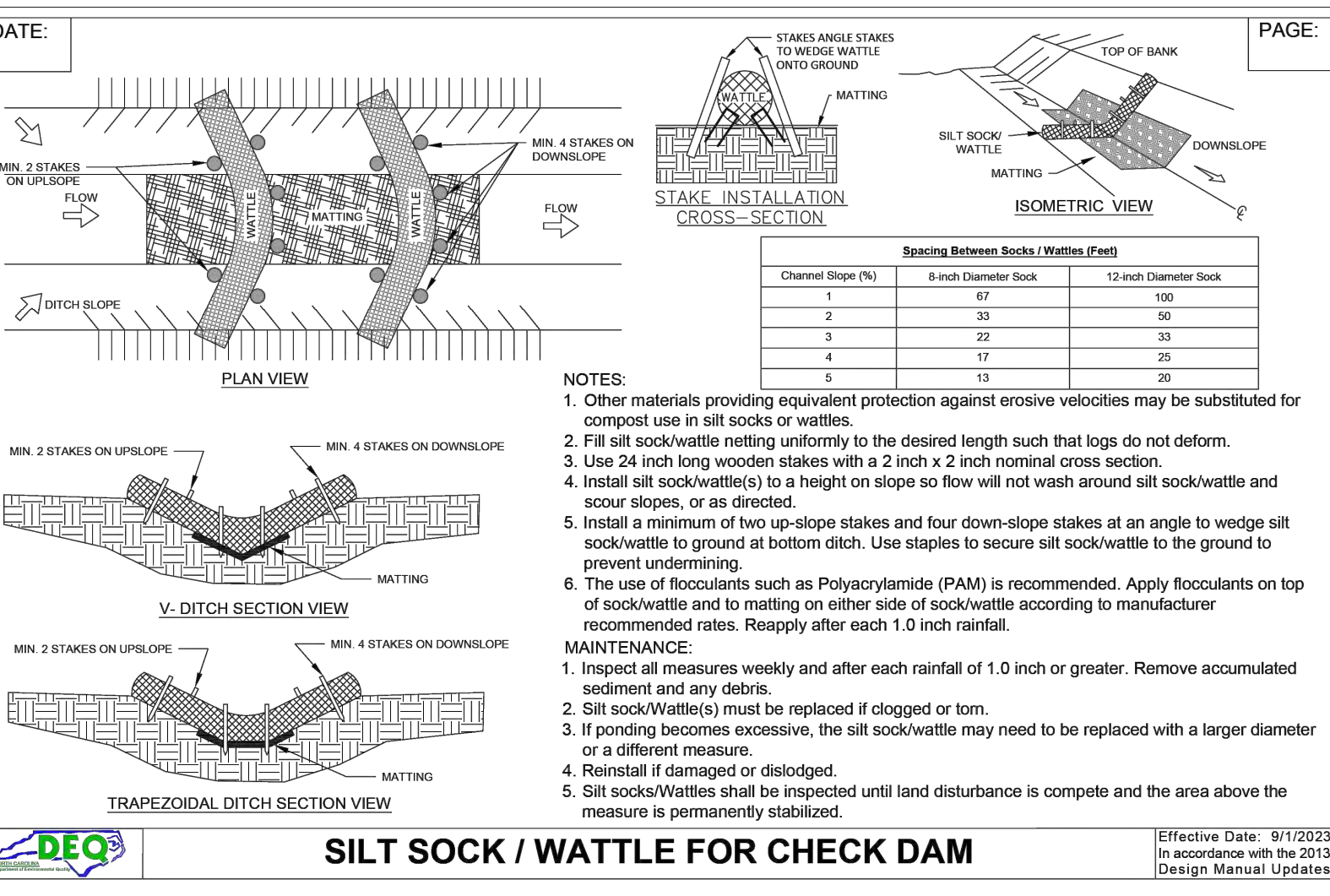
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE

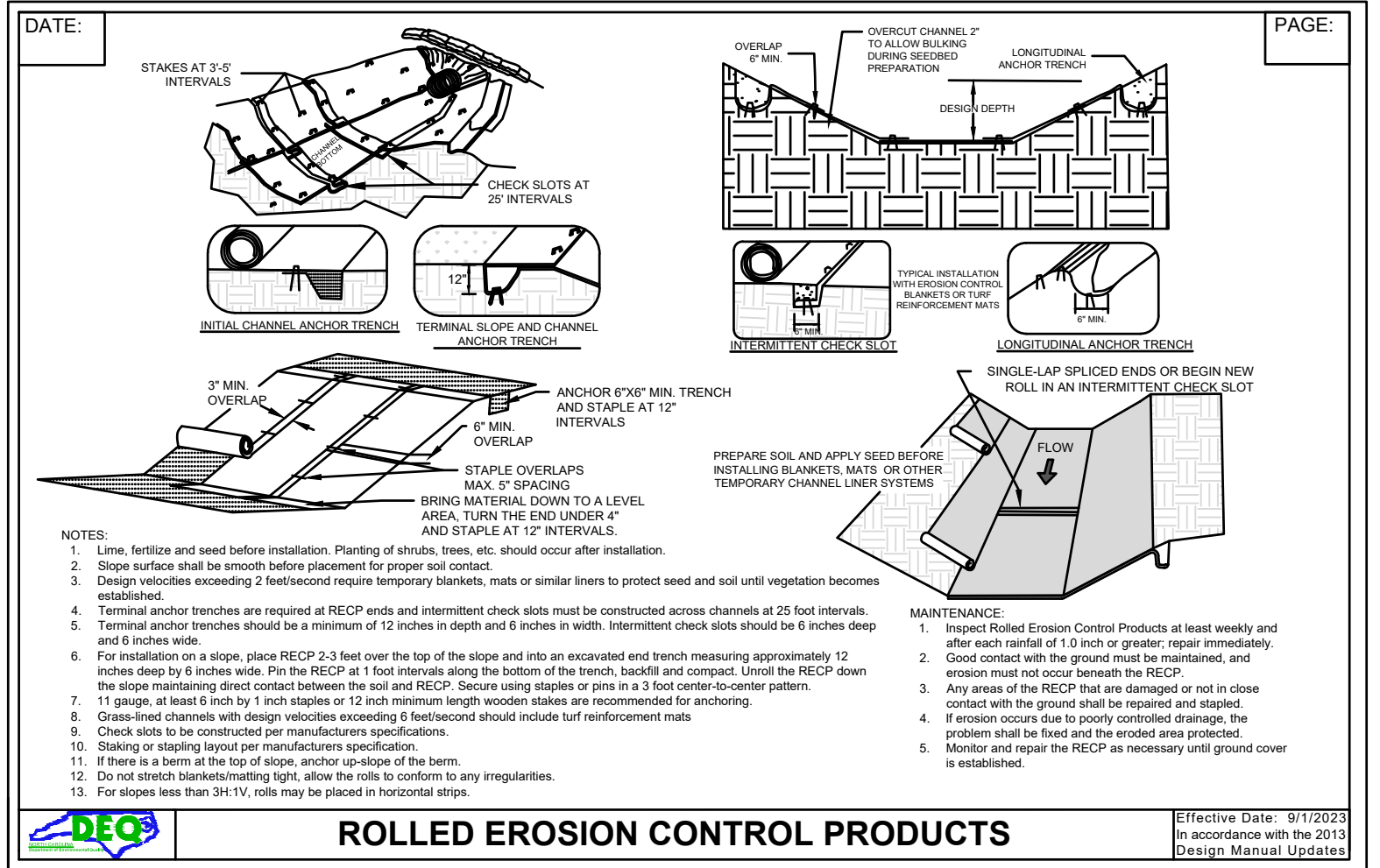
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE, AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

TEMPORARY SEEDING RECOMMENDATIONS FOR SUMMER

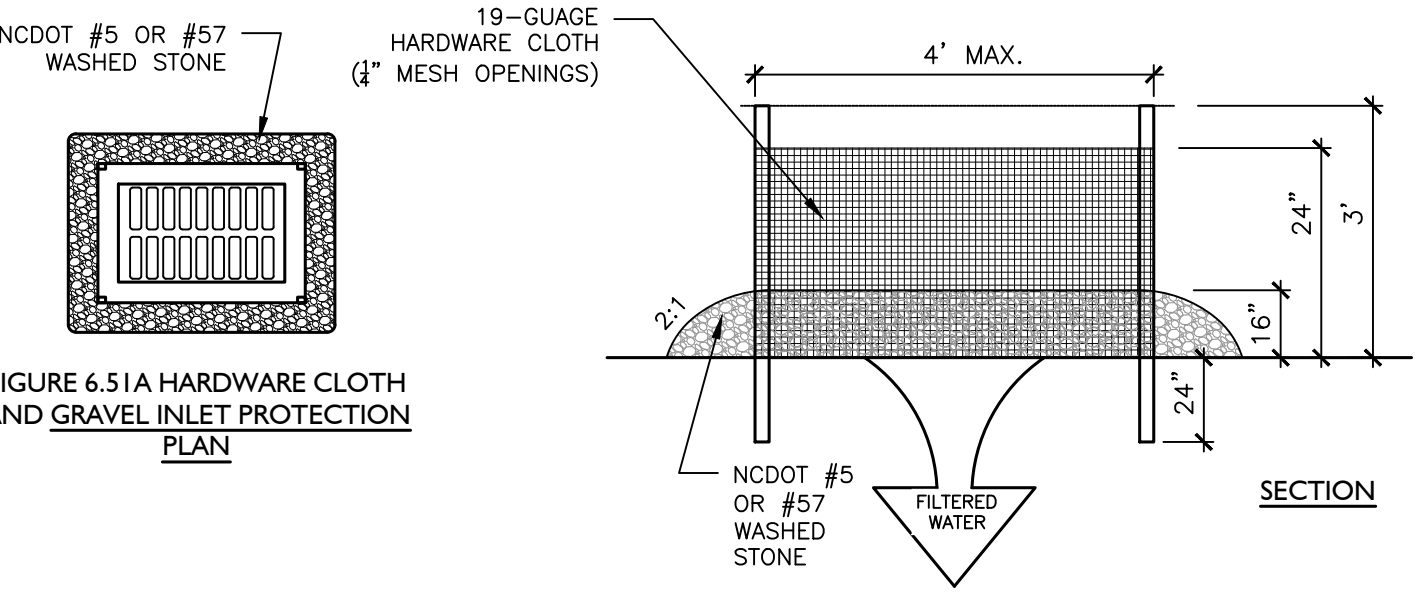
8 Seeding Specifications for Temporary Erosion Control
NCDEQ STD. 6.10



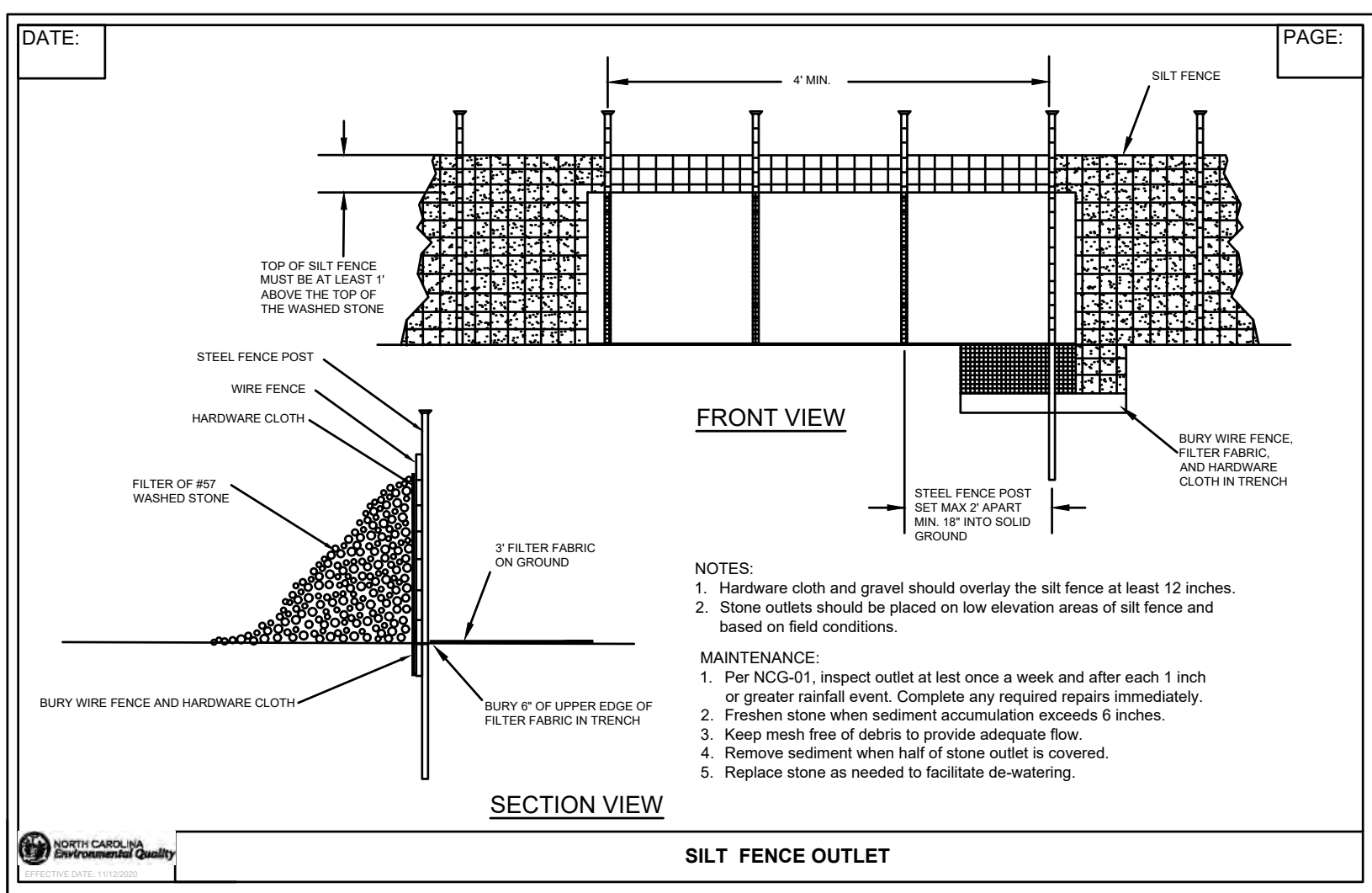
3 Silt Sock / Wattle for Check Dam
NCDEQ STD. 6.66



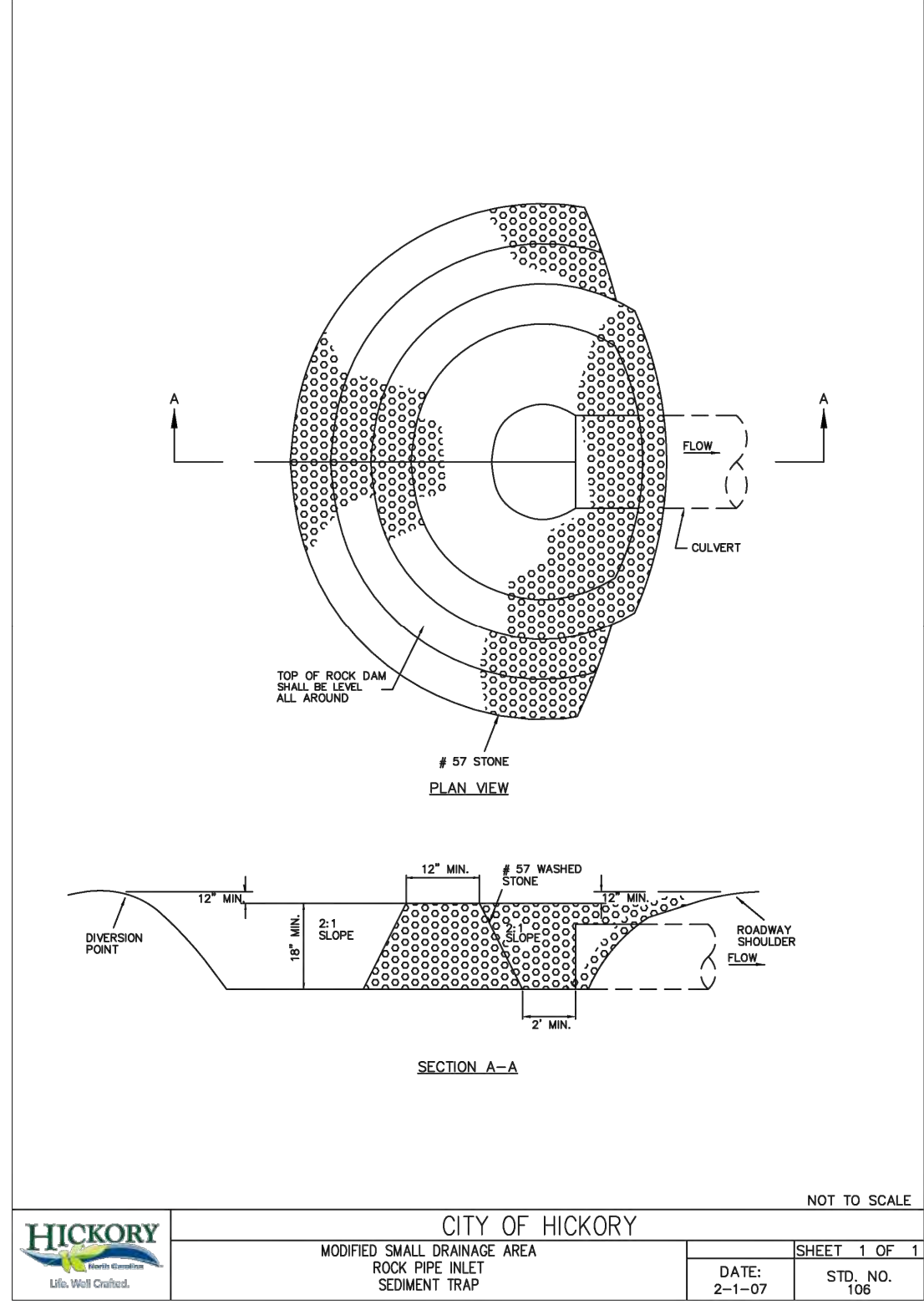
5 Rolled Erosion Control Matting
NCDEQ STD. 6.17



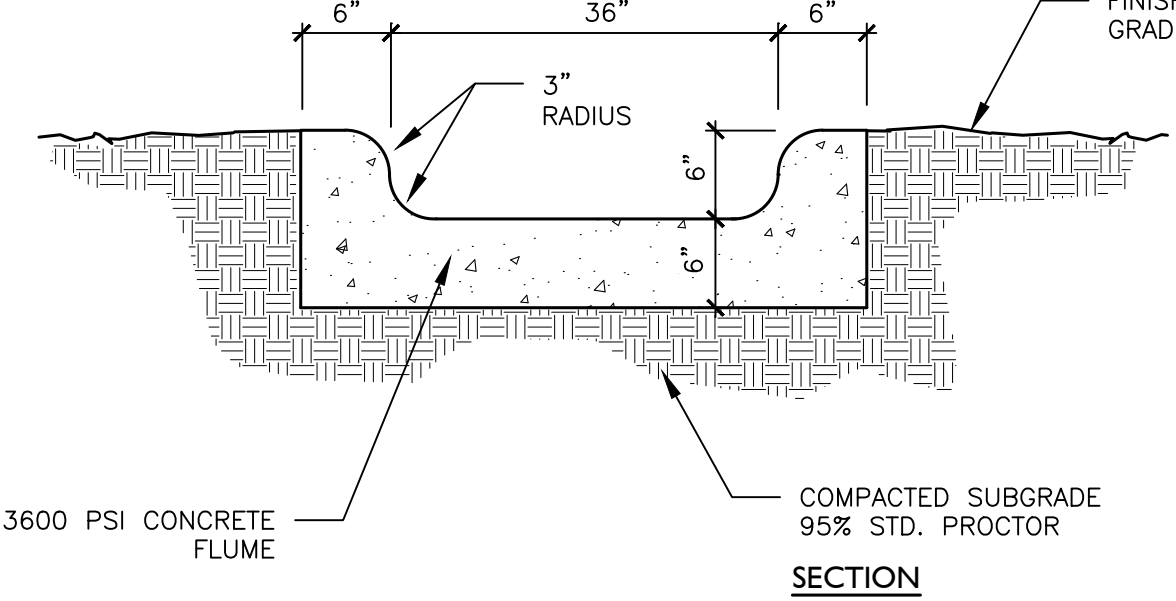
9 Hardware Cloth and Gravel Inlet Protection
NCDEQ STD. 6.51



4 Silt Fence Outlet
NCDEQ STD. 6.62



6 Rock Pipe Inlet
City of Hickory STD. 106



10 Concrete Flume Detail
N.T.S.

benesch

Alfred Benesch & Company
100 Parkway, Suite 200
Raleigh, NC 27608
www.benesch.com
P 704.521.9880

Seals:

Signed by: *Morgan Woollier*
NORTH CAROLINA
PROFESSIONAL ENGINEER
SEAL 053444
MORGAN R. WOOLLIER
7/30/2026
Corp. NC license: F-1320

Sandy Pines Park
"Initial Phase"
2301 21st Avenue NE
Hickory, North Carolina

Project no: 1726.500006.00

Date: 07.17.26

Revisions:

Sheet Title:

DETAILS

Sheet No:

C500

DIVISION 200 DRAINAGE

A. GENERAL NOTES

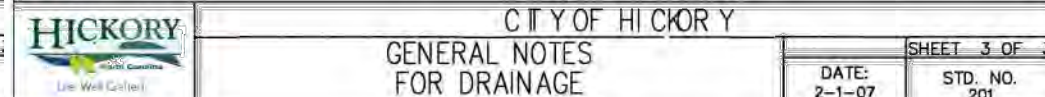
1. All work and materials shall conform to the latest edition of the NCDOT Standard Specifications unless otherwise specified in this manual.
2. Only the following drainage pipe materials are allowed within the street right of way without prior approval by the City Engineer excluding driveway pipes:
 - (a) Class III reinforced concrete pipe.
 - (b) Fully bituminously coated corrugated steel or aluminum pipe with paved invert, minimum 14 gage.
 - (c) High density polyethylene (HDPE) pipe with corrugated exterior/smooth interior conforming to the requirements of AASHTO specification M234 for corrugated polyethylene pipe and shall require coupling bands and fittings and installed per manufacturers recommendations.
3. All driveway pipes within right of way must be approved by City Engineer.
4. All pipe shall be laid with the bell or groove upgrade and the joint entirely interlocking.
5. Pipe used within the street right-of-way shall be a minimum diameter of eighteen (18) inches.
6. The minimum cover for all pipe is per the manufacturers recommendations but should not be less than two (2) feet. Special applications for less than two (2) feet of cover will be reviewed individually.
7. Concrete mortar joints shall be used for joining all concrete pipes. The pipe shall be clean and moist when mortar is applied. The lower portion of the bell or grooves shall be filled with mortar sufficient to bring the inner surface flush and even when the next joint is installed. The mortar shall be applied and compacted with a rod or trowel and a bed of mortar formed around the outside of the joint. The application of mortar may be delayed until fill is completed when the pipe is larger than thirty (30) inch.
8. Prefumed joint sealer, which conforms to AASHTO specification M-198 for Type B flexible plastic gaskets, may be used in lieu of the mortar jointing method.

9. Coupling bands and fittings shall be used for joining all HDPE pipe. Coupling bands shall cover at least one full corrugation on each section of pipe. Gasket coupling bands are required between all pipe joints. The gasket shall be made of closed-cell synthetic expanded rubber meeting the requirements of ASTM D1056, Type 2. Gaskets shall be installed on the coupling band by the pipe manufacturer. All coupling bands shall meet or exceed the soil-tightness requirement of AASHTO Standard Specification for Highway Bridges, section 23, paragraph 23.1.5.4(e). Pipe fittings shall conform to AASHTO M252 or AASHTO M294.

10. The interior surfaces of all storm drainage structures shall be pointed up and smoothed to an acceptable standard using mortar mixed to manufacturer's specifications.
11. All pipes in storm drain structures shall be flush with the inside wall. All storm drain structures shall have hand-formed fillets to prevent standing water.
12. All storm drain structures, including pre-cast boxes, frames, grates, hoods, etc., shall meet current MCDOT standards. Refer to call #306 for requirements for steps.
13. Any storm drain structures 3'-6" (three feet six inches) in height must have steps in accordance with standard details set forth in this manual.
14. All frames, grates, grills, covers etc., must conform to the standards set forth in this manual.
15. All graded creek banks and slopes shall be at a maximum of two (2) feet horizontal to one (1) foot vertical (2:1).
16. All backfill shall be non-plastic in nature, free from roots, vegetative material, waste, construction material or other objectionable material. Said material shall be capable of being compacted by mechanical means and shall have no tendency to flow or behave in a plastic manner under the lamping blow or proof rolling.
17. Materials deemed by the Engineering Division as unsuitable for backfill purposes shall be removed and replaced with selected backfill material.
18. Backfilling of trenches shall be accomplished immediately after the pipe is laid. The fill around the pipe shall be placed in layers not to exceed six (6) inches, each layer shall be thoroughly compacted to 95% of the maximum density obtainable with the Standard Proctor Test (as density of 100% Standard Proctor is required for the top eight (8) inches). All tests shall be provided by Contractor at no cost to the City.
19. Compaction requirements shall be attained by the use of mechanical compaction methods. Each layer of backfill shall be placed loose and thoroughly compacted in place.
20. Under no circumstances shall water be permitted to rise in unbackfilled trenches after the pipe has been placed.

B. STANDARDS FOR DESIGN

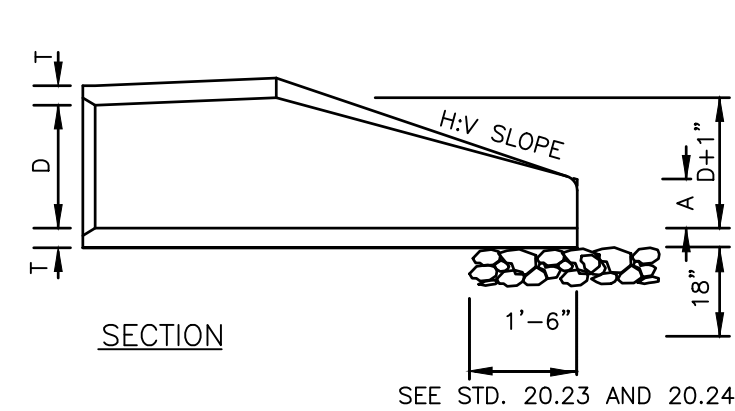
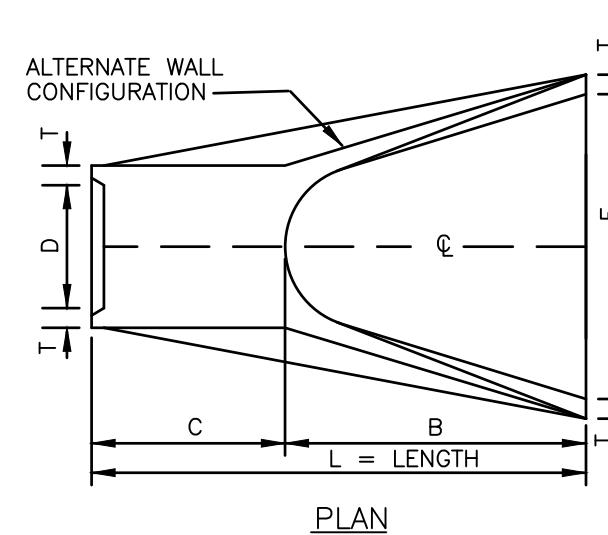
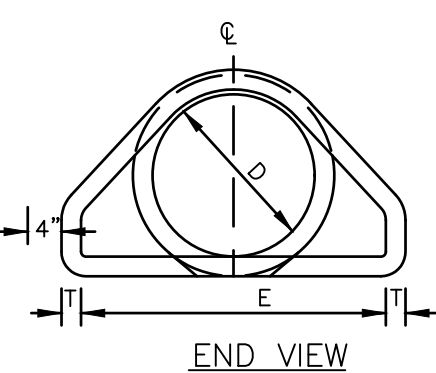
1. All storm drainage design shall conform with the standards and specifications as provided in the Land Development Code, or the more restrictive of any standards that conflict.
2. Adequate storm drainage shall be provided throughout the proposed development by means of storm drainage pipes or properly graded channels. All pipe shall be of adequate size and capacity, as approved by the City Engineer, to carry all storm water in its drainage area.



General Notes for Drainage

City of Hickory STD. 201

D	T	A	B	C	E	L	HV	WT.
12	2-1/4"	4"	2-3"	4-1"	2-0"	6-1"	31	730
18	2-1/4"	4"	2-3"	3-10"	6-1"	31	319	1190
18	2-1/4"	4"	2-3"	3-10"	6-1"	31	319	1990
24	3"	10"	3-8"	2-6"	4-0"	6-2"	31	1770
30	3-1/2"	10"	4-4"	1-8"	5-0"	6-2"	31	2380
36	4"	1-3"	5-3"	2-11"	6-6"	31	31	5320
42	4-1/2"	1-3"	5-3"	2-11"	6-6"	31	31	5820
48	5"	2-0"	6-0"	2-2"	7-0"	8-2"	31	7470
54	5-1/2"	2-3"	5-6"	2-10"	7-6"	8-4"	31	8810
60	6"	2-6"	5-0"	3-3"	8-0"	8-4"	31	11180
66	6-1/2"	3-0"	6-0"	2-3"	8-6"	8-3"	31	12930
72	7"	3-0"	6-6"	1-8"	9-0"	8-3"	31	15800

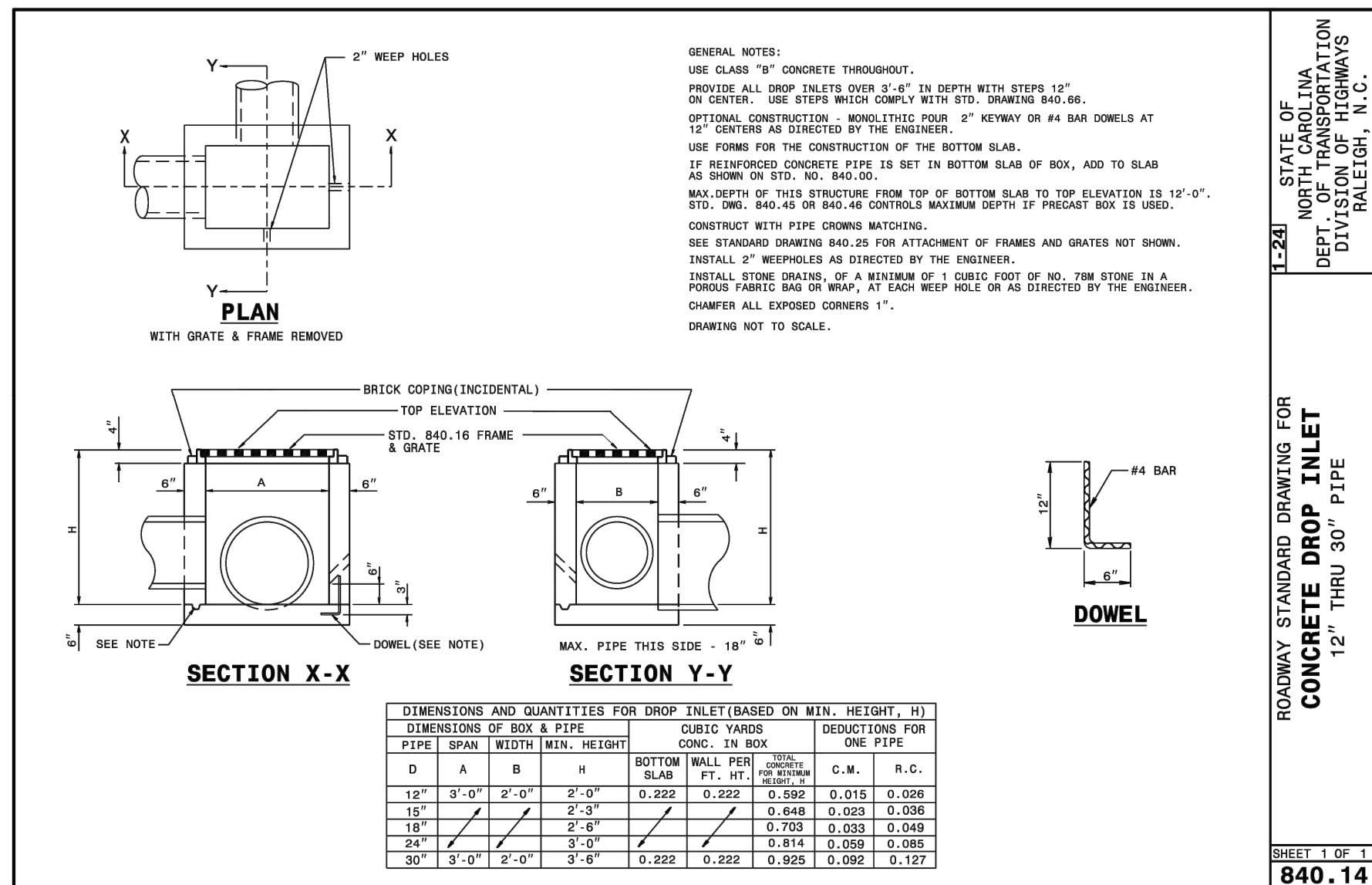


2 Flared End Section

N.T.S.

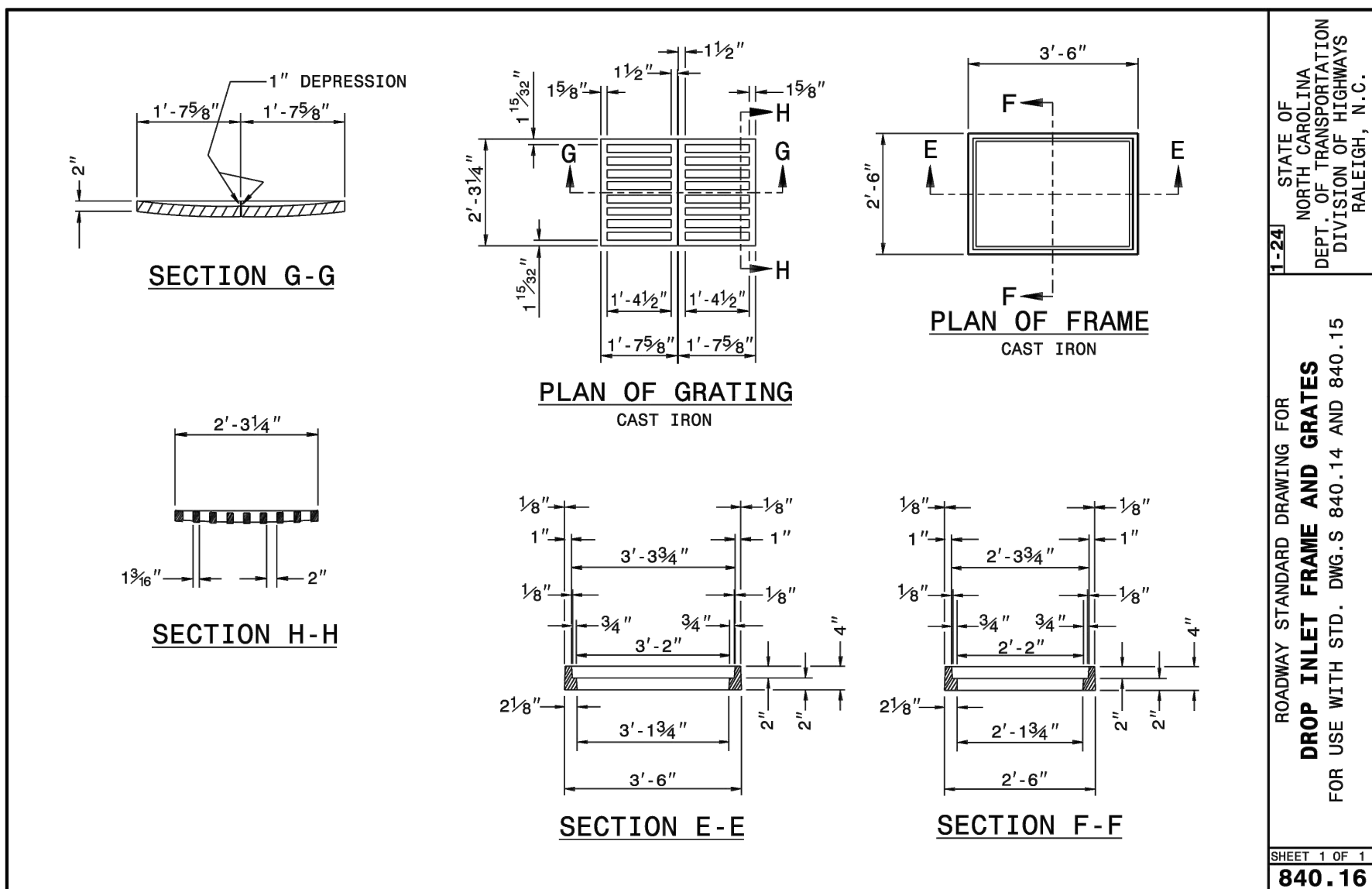
GENERAL NOTES:

1. SEE CURRENT NCDOT STANDARD 310.01 FOR DETAILS.
2. REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF REINFORCED CONCRETE PIPE OF LIKE DIAMETER PER AASHTO M170, TABLE 2, WALL B.
3. ALL CONCRETE TO BE 4000 P.S.I COMPRESSIVE STRENGTH.
4. PROVIDE GROOVE OR BELL JOINT AT OUTLET END SECTION.
5. THE DIMENSIONS FOR END SECTIONS SHALL SUBSTANTIALLY AGREE WITH THE TABLE. MINOR VARIATIONS WILL BE PERMITTED BASED ON THE MANUFACTURER'S STANDARD FORMS AND TEMPLATES.
6. NOT TO BE USED IN NCDOT MAINTAINED RIGHT OF WAY.

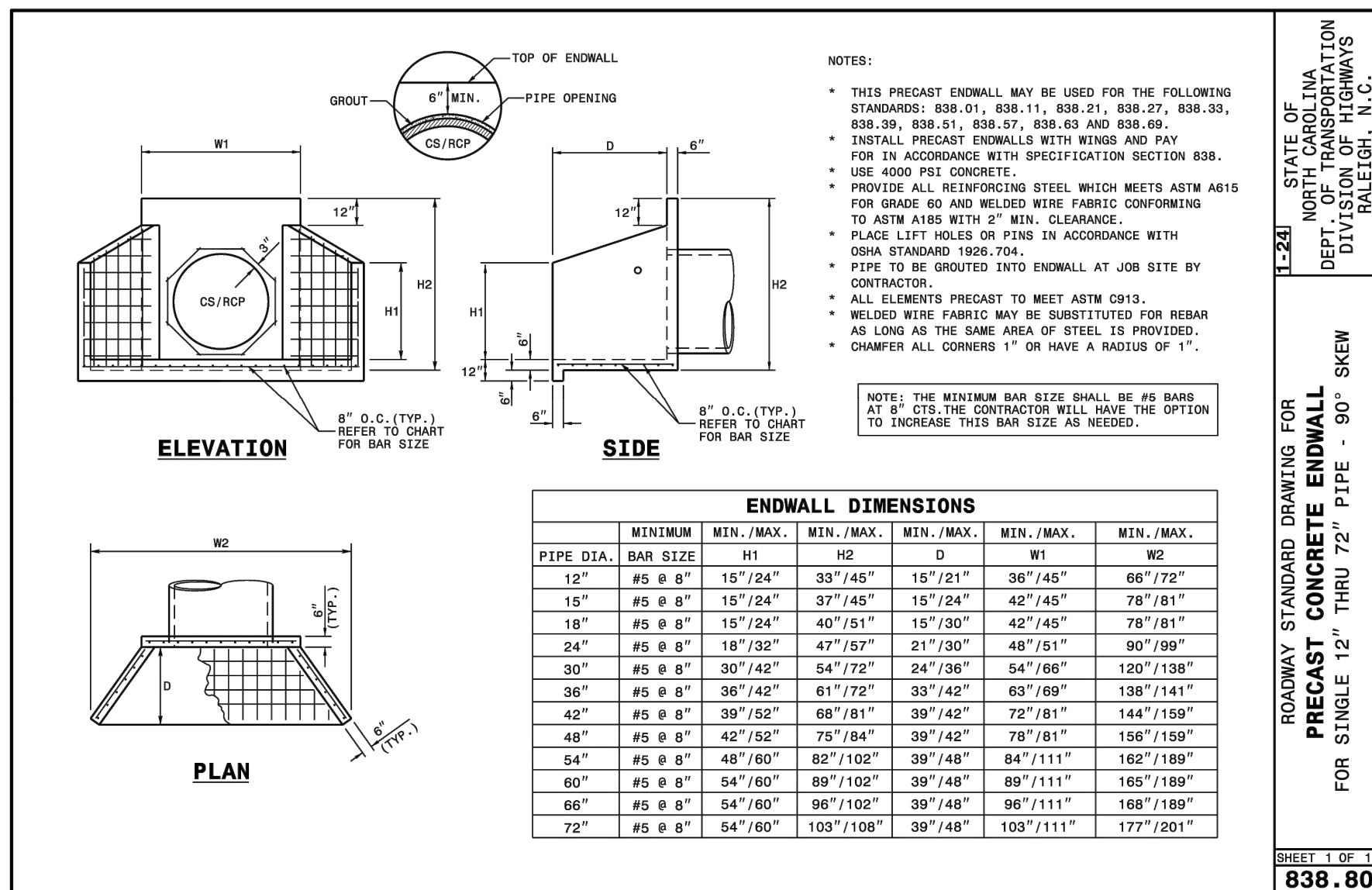


2 Concrete Drop Inlet

NCDOT 840.14

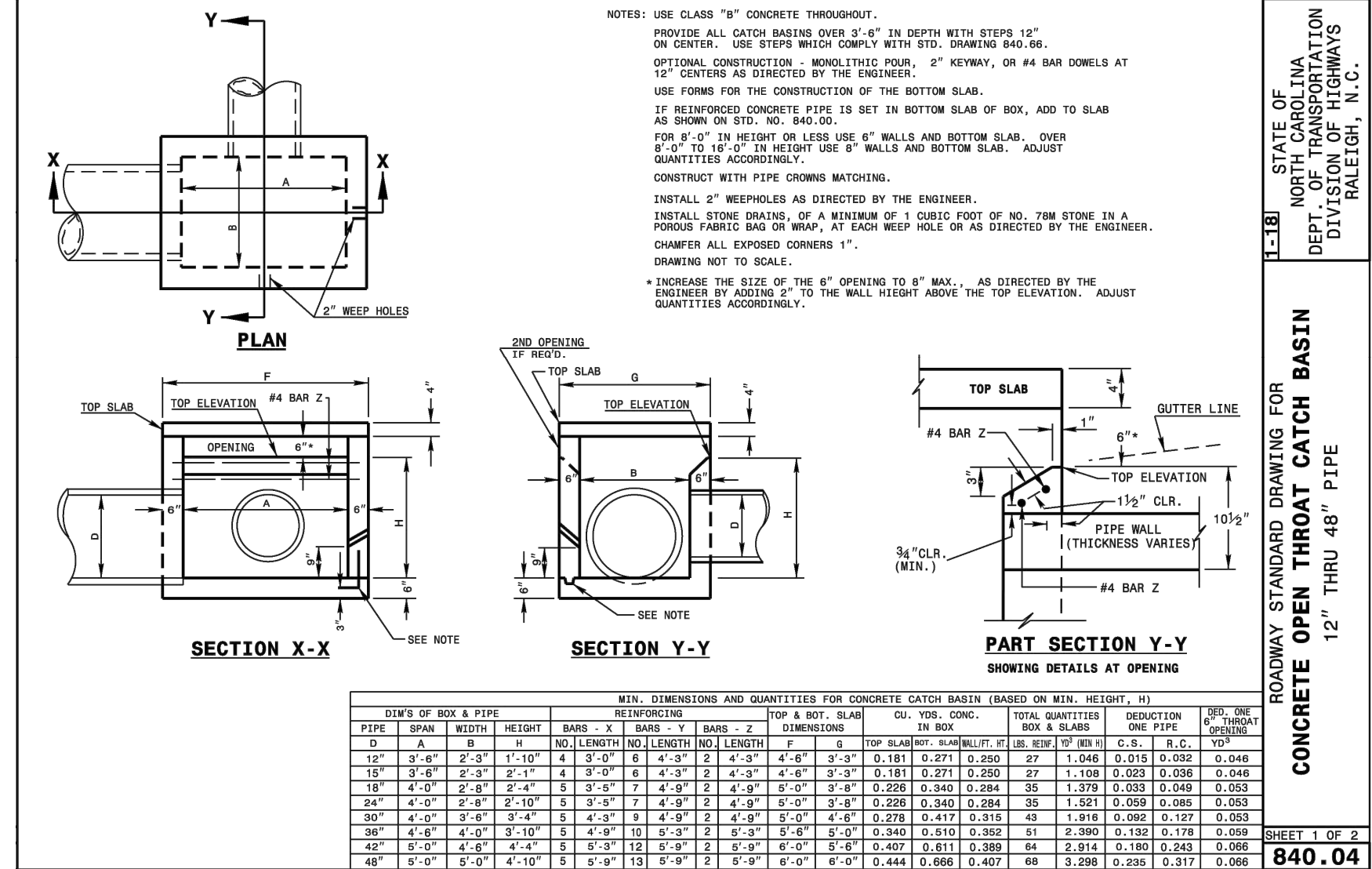


4) Drop Inlet Frame and Cover



F Precast Concrete Endwall

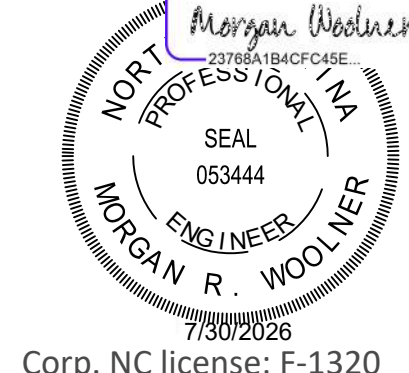
NCDOT 838.80



Concrete Open Throat Catch Basin

NCDOT 840.04

Seals:



Corp. NC license: F-1320

Sandy Pines Park
"Initial Phase"
2301 21st Avenue NE
Hickory, North Carolina

2301 21st Avenue NE
Hickory, North Carolina

Project no: 1726.500006.00

Date: 07.17.26

Revisions:

Sheet Title:

DETAILS

Sheet No:

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DIVISION 400 CURB & GUTTER, SIDEWALKS, & DRIVEWAYS

A. GENERAL NOTES

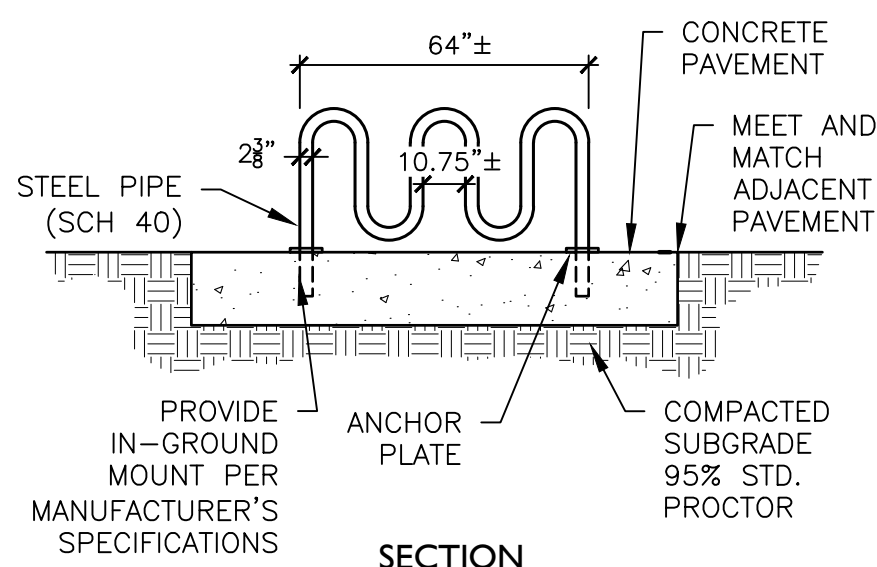
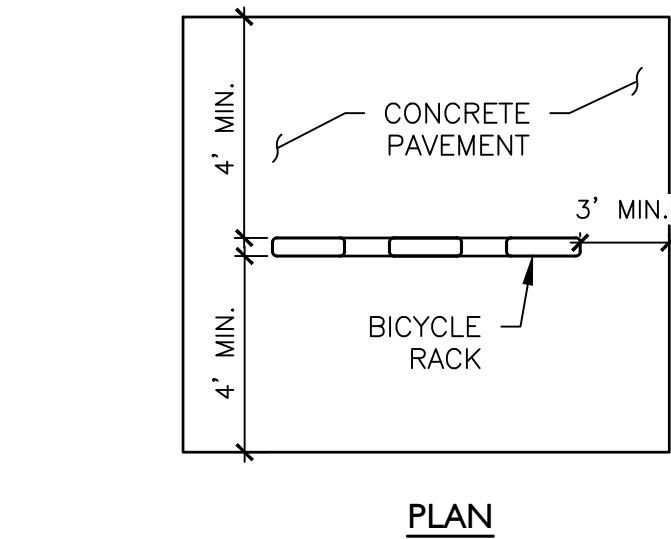
1. Sidewalks shall be constructed of not less than 3000 P.S.I. concrete and shall be four (4) inches thick, constructed on an adequately graded and compacted base, except where a sidewalk crosses a driveway it shall be six (6) inches thick. Subgrade shall be compacted to 95% of the maximum density as measured by Standard. The surface of the sidewalk shall be steel trowel and light broom finished and cured with an acceptable curing compound. Tooled joints shall be provided at intervals of not less than five (5) feet and expansion joints at intervals of not more than thirty (30) feet. The sidewalk shall have a lateral slope of one-quarter (1/4) inch per foot from outside edge of sidewalk to the top of curb.
2. Accessible ramps are required where sidewalks intersect curbing.
3. No driveway shall be installed within thirty (30) feet of an intersection, measuring from the point of tangency, without express written approval by City Traffic Engineer and/or City Engineer.
4. No on-street parking shall be installed within thirty (30) feet of an intersection or twenty (20) feet of a driveway measured from the point of tangency of the curb without express written approval by City Traffic Engineer and/or City Engineer.

REFERENCES

1. North Carolina Department of Transportation, Standard Specifications for Roads and Structures, Latest Edition
2. North Carolina Department of Transportation, Roadway Design Manual, Latest Edition
3. American Association of State Highway and Transportation Officials, Latest Edition, A Policy on Geometric Design of Highways and Streets

CITY OF HICKORY		SHEET 1 OF 1	
GENERAL NOTES FOR CURB & GUTTER, SIDEWALKS, & DRIVEWAYS		DATE: 09-09-24	STD. NO. 401

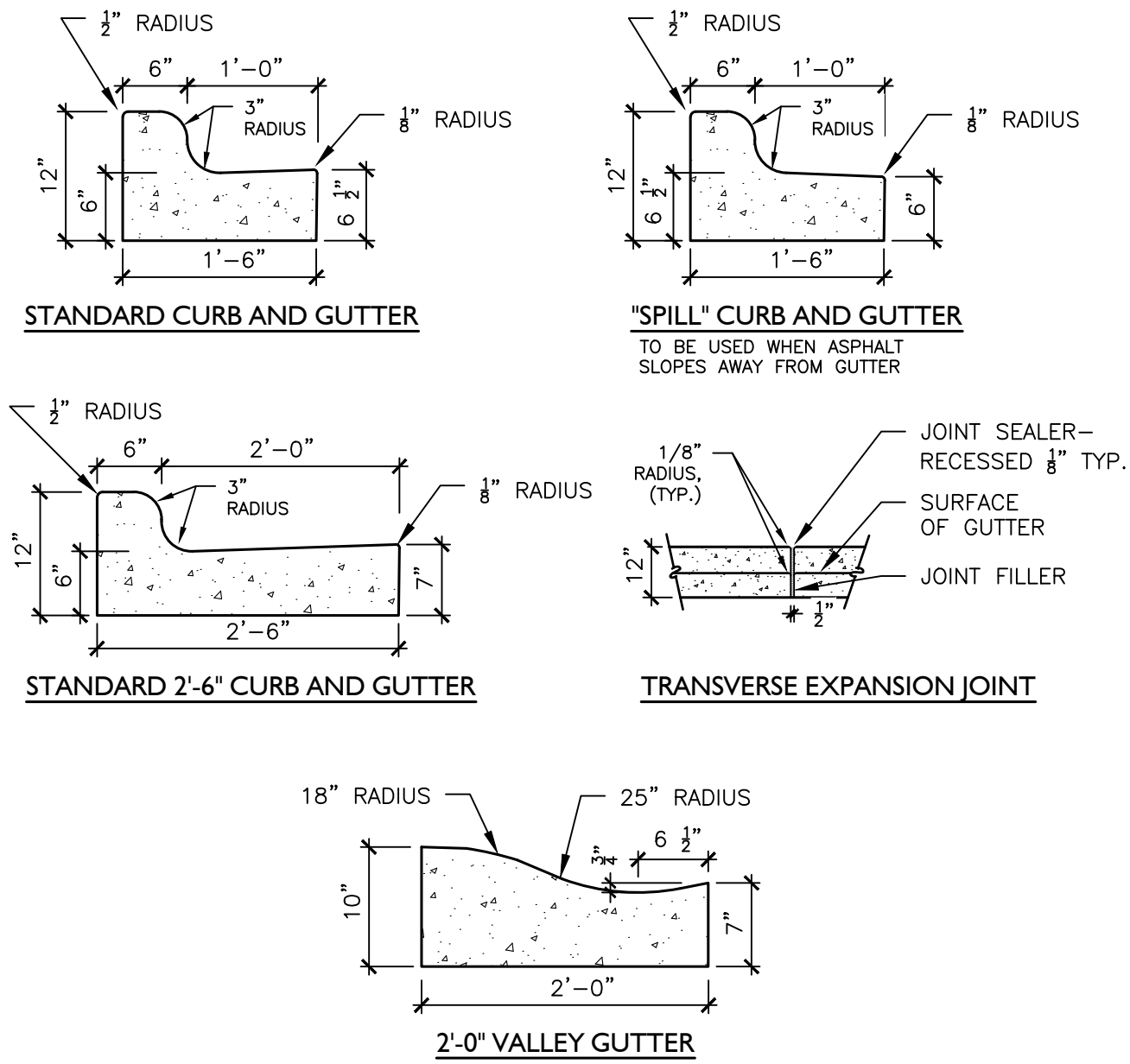
General Notes for Curb & Gutter, Sidewalks, & Driveways City of Hickory STD. 401



NOTES

1. PRE-MANUFACTURED BIKE RACKS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
2. LOOPED STYLE BIKE RACK AT 64"± LENGTH, 2 3/8" STEEL PIPE BIKE RACKS W/ IN GROUND PERMANENT MOUNTED, 5 BIKES PER RACK.
3. ALL METAL SURFACES TO BE GALVANIZED (G-90) AND NOT PAINTED.

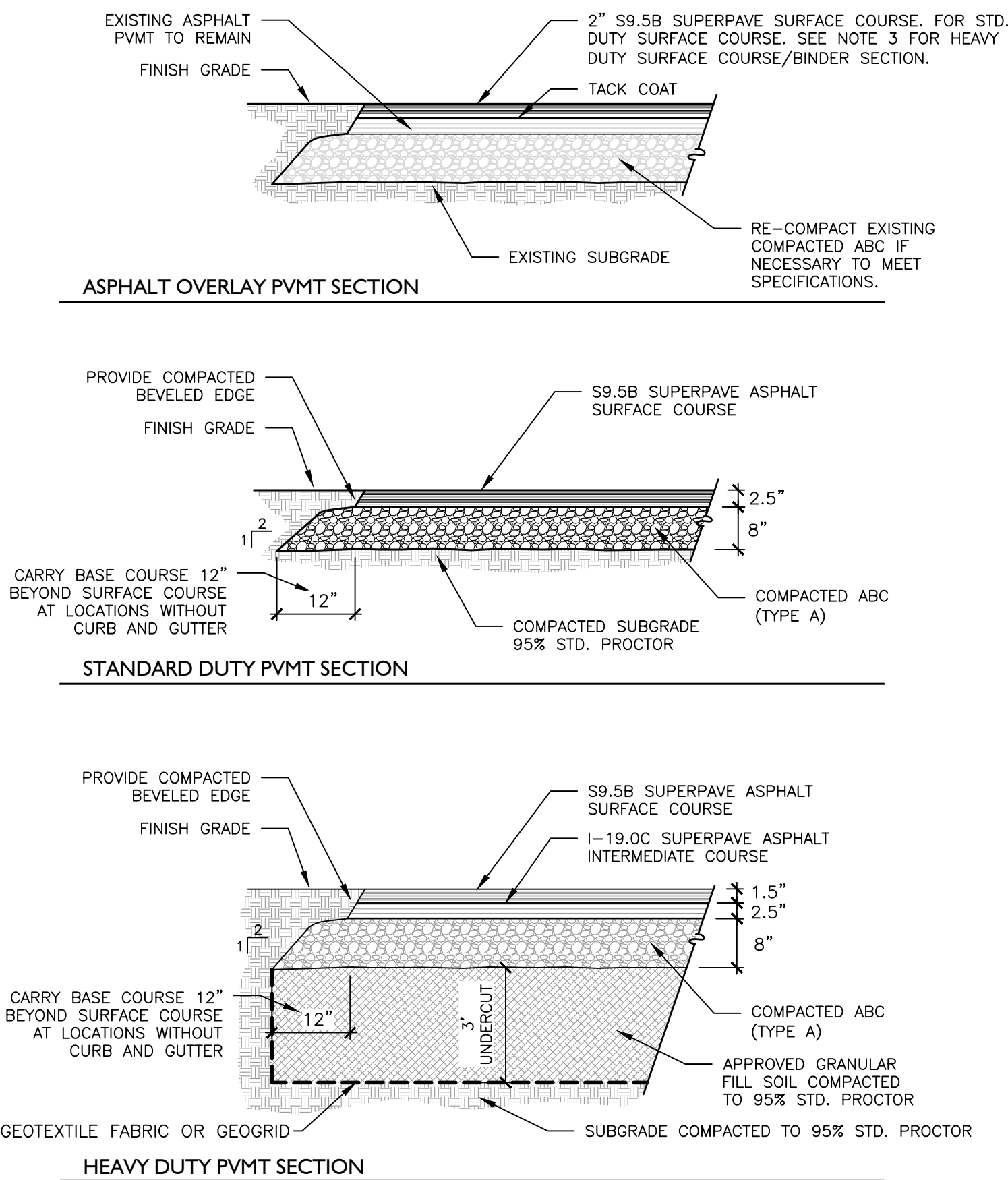
4 Bike Rack SCALE: N.T.S.



NOTES

1. CONTRACTION JOINTS SHALL BE SPACED AT 10-FOOT INTERVALS. FOR VALLEY GUTTER, A 15-FOOT SPACING MAY BE USED WHEN A MACHINE IS USED. JOINT SPACING MAY BE ALTERED BY THE ENGINEER TO PREVENT UNCONTROLLED CRACKING.
2. CONTRACTION JOINTS MAY BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1 1/2" SHALL BE OBTAINED.
3. ALL EXPANSION JOINTS SHALL BE SPACED AT 90 FOOT INTERVALS, AND ADJACENT TO ALL RIGID OBJECTS. JOINTS SHALL MATCH LOCATIONS WITH JOINTS IN ADJUTING SIDEWALK.
4. TOP 6" OF SUBGRADE BENEATH THE CURB AND GUTTER SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY.
5. CURB SHALL BE DEPRESSED AT INTERSECTIONS TO PROVIDE FOR FUTURE ACCESSIBLE RAMPS.
6. CONCRETE COMPRESSIVE STRENGTH SHALL BE 3600 P.S.I. IN 28 DAYS.

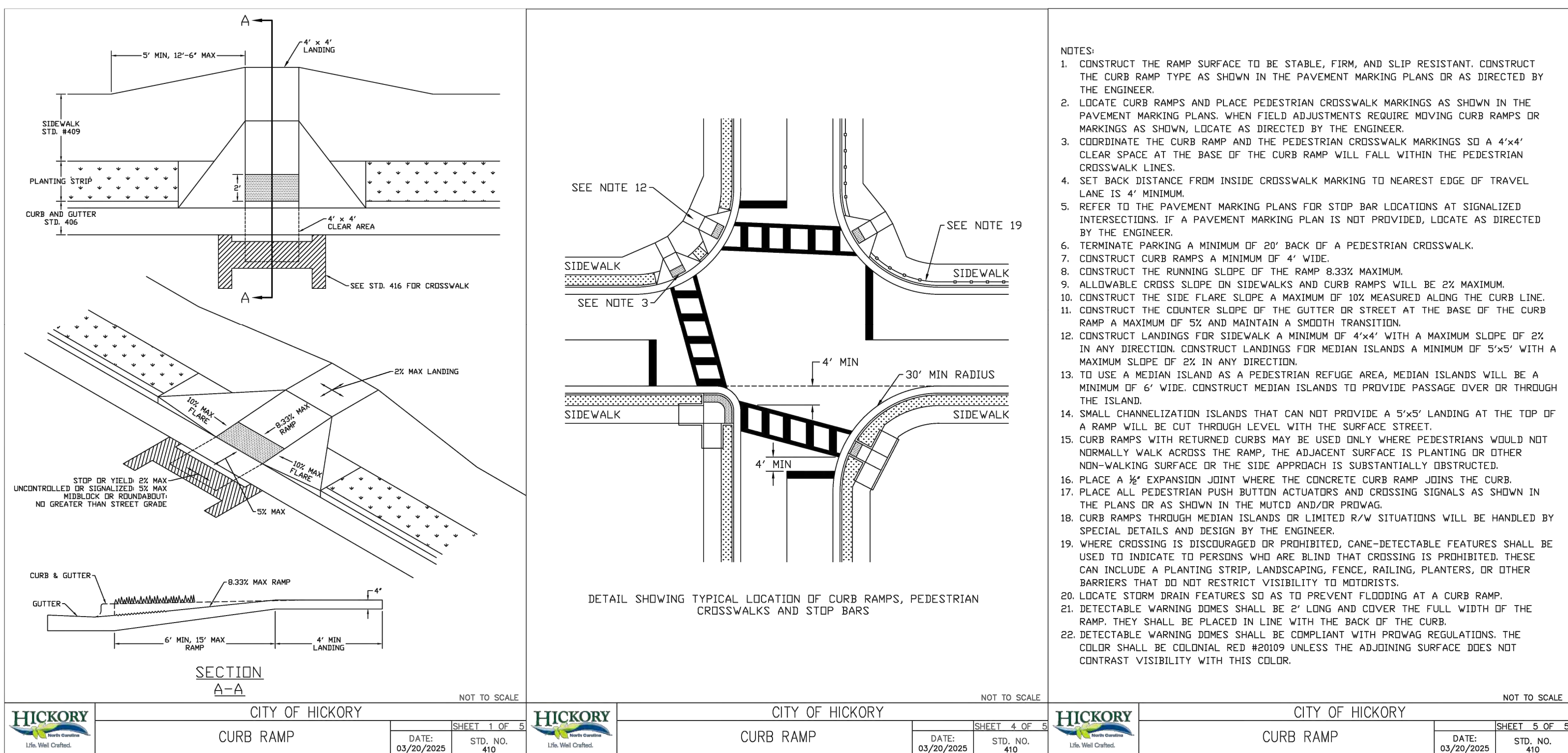
2 Concrete Curb and Gutter Detail N.T.S.



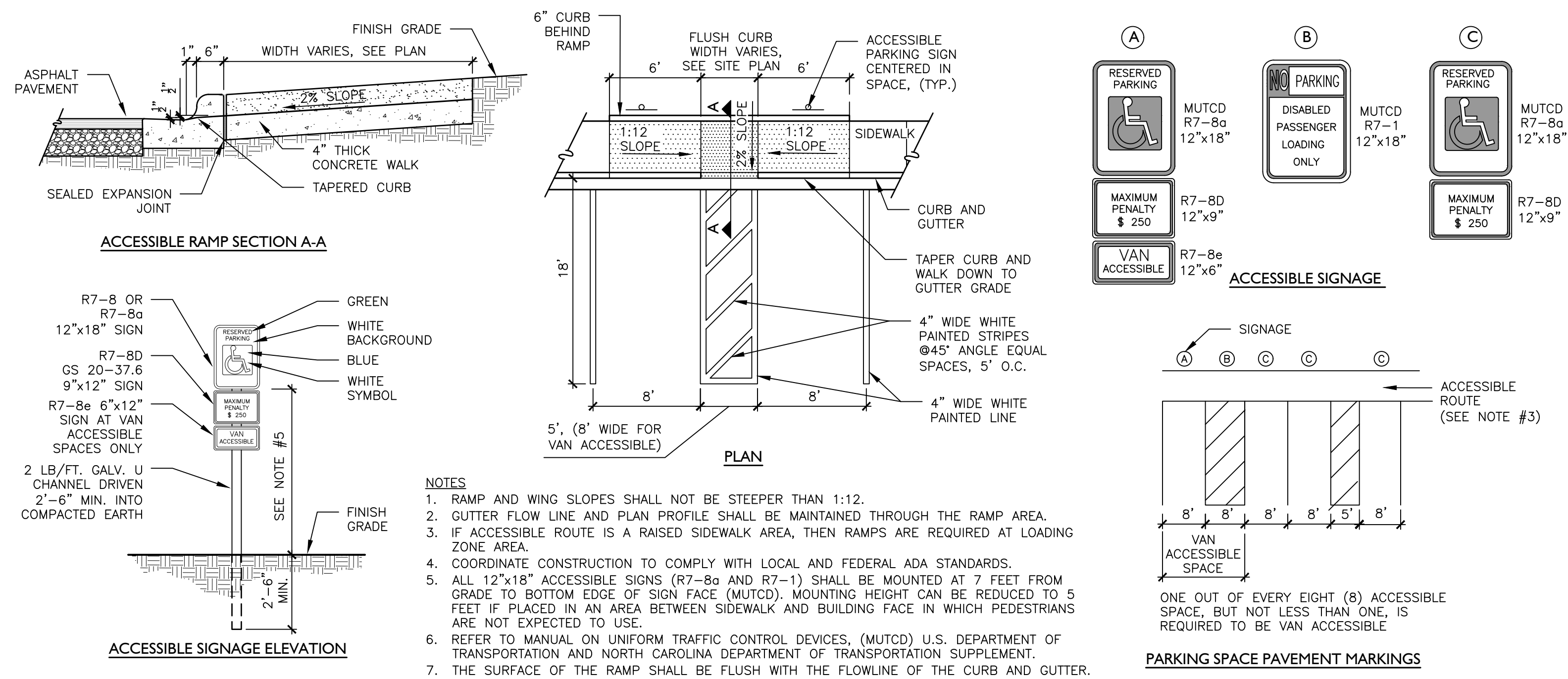
NOTES

1. SEE SPECIFICATIONS FOR OTHER REQUIREMENTS.
2. SPRAY HERBICIDE TO KILL ALL VEGETATION PRIOR TO APPLYING OVERLAY.
3. HEAVY DUTY PAVEMENT AREAS INDICATED TO RECEIVE A NEW SURFACE/BINDER COURSE ON THE EXISTING BASE COURSE SHALL USE 2 1/2" OF I-19.0B INTERMEDIATE COURSE AND 1 1/2" OF SF9.5A SURFACE COURSE.
4. ASPHALT MIX SHALL NOT CONTAIN MORE THAN 30% RECYCLED ASPHALT PRODUCT (RAP).

5 Asphalt Pavement N.T.S.



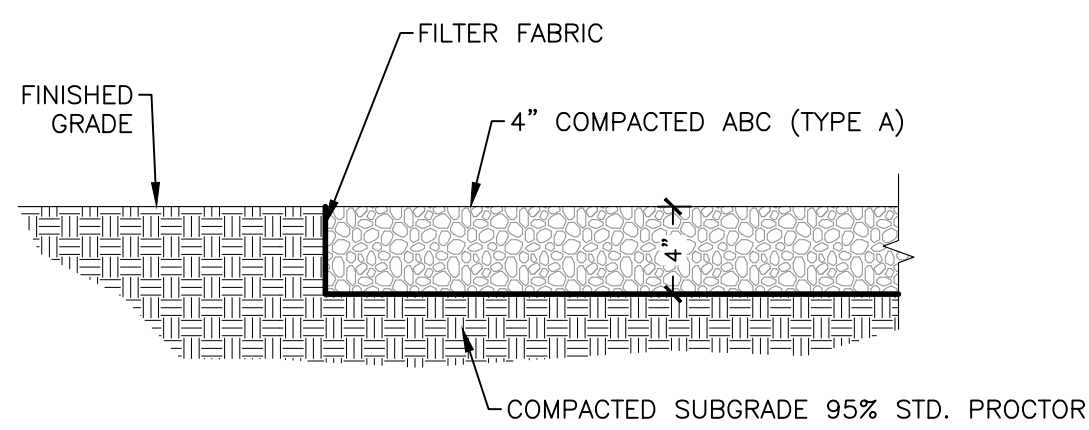
3 Curb Ramp City of Hickory STD. 410



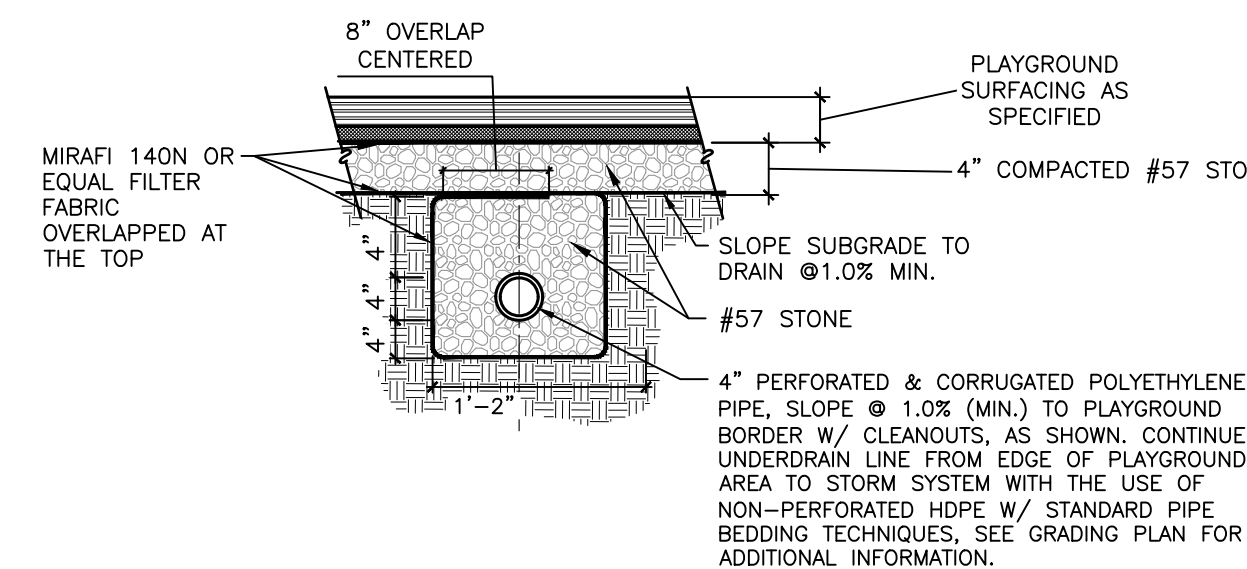
NOTES

1. RAMP AND WING SLOPES SHALL NOT BE STEEPER THAN 1:12.
2. GUTTER FLOW LINE AND PLAN PROFILE SHALL BE MAINTAINED THROUGH THE RAMP AREA.
3. IF ACCESSIBLE ROUTE IS A RAISED SIDEWALK AREA, THEN RAMPS ARE REQUIRED AT LOADING ZONE AREA.
4. COORDINATE CONSTRUCTION TO COMPLY WITH LOCAL AND FEDERAL ADA STANDARDS.
5. ALL 12"x18" ACCESSIBLE SIGNS (R7-8a and R7-1) SHALL BE MOUNTED AT 7 FEET FROM GRADE TO BOTTOM EDGE OF SIGN FACE (MUTCD). MOUNTING HEIGHT CAN BE REDUCED TO 5 FEET IF PLACED IN AN AREA BETWEEN SIDEWALK AND BUILDING FACE IN WHICH PEDESTRIANS ARE NOT EXPECTED TO USE.
6. REFER TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. (MUTCD) U.S. DEPARTMENT OF TRANSPORTATION AND NORTH CAROLINA DEPARTMENT OF TRANSPORTATION SUPPLEMENT.
7. THE SURFACE OF THE RAMP SHALL BE FLUSH WITH THE FLOWLINE OF THE CURB AND GUTTER.

6 Accessible Parking/Signage/Striping N.T.S.

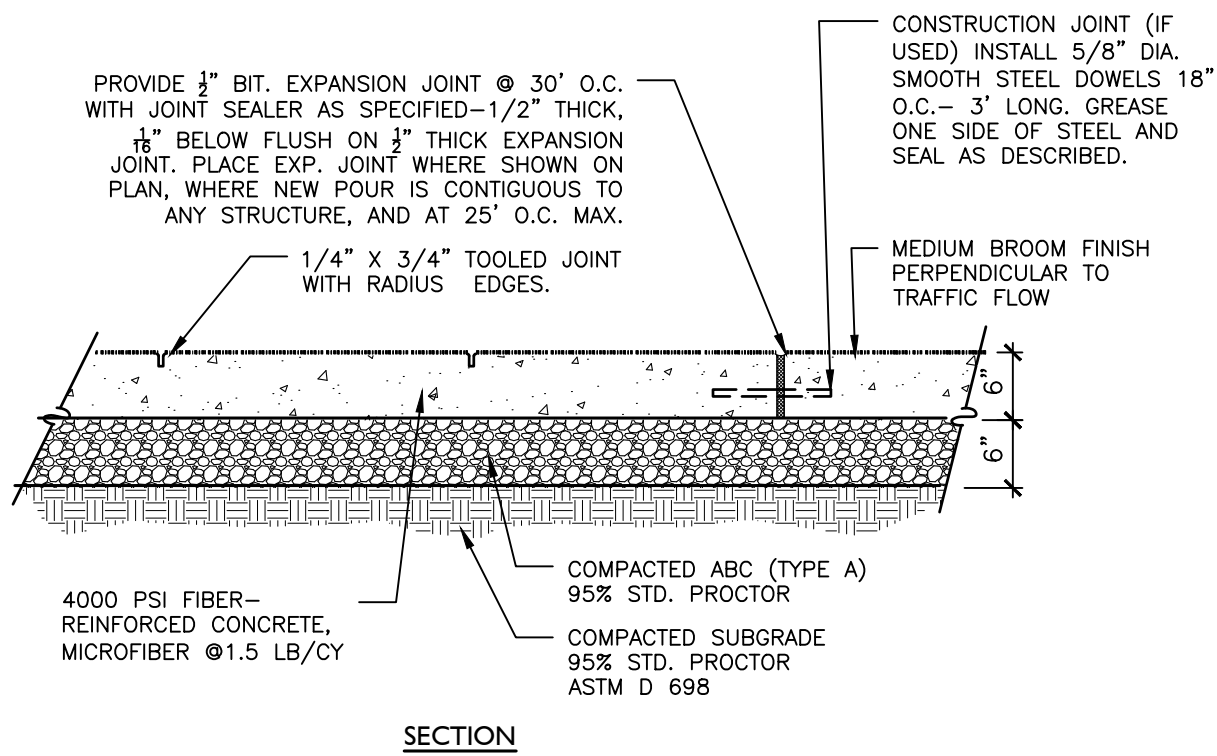


7 Gravel Pad N.T.S.



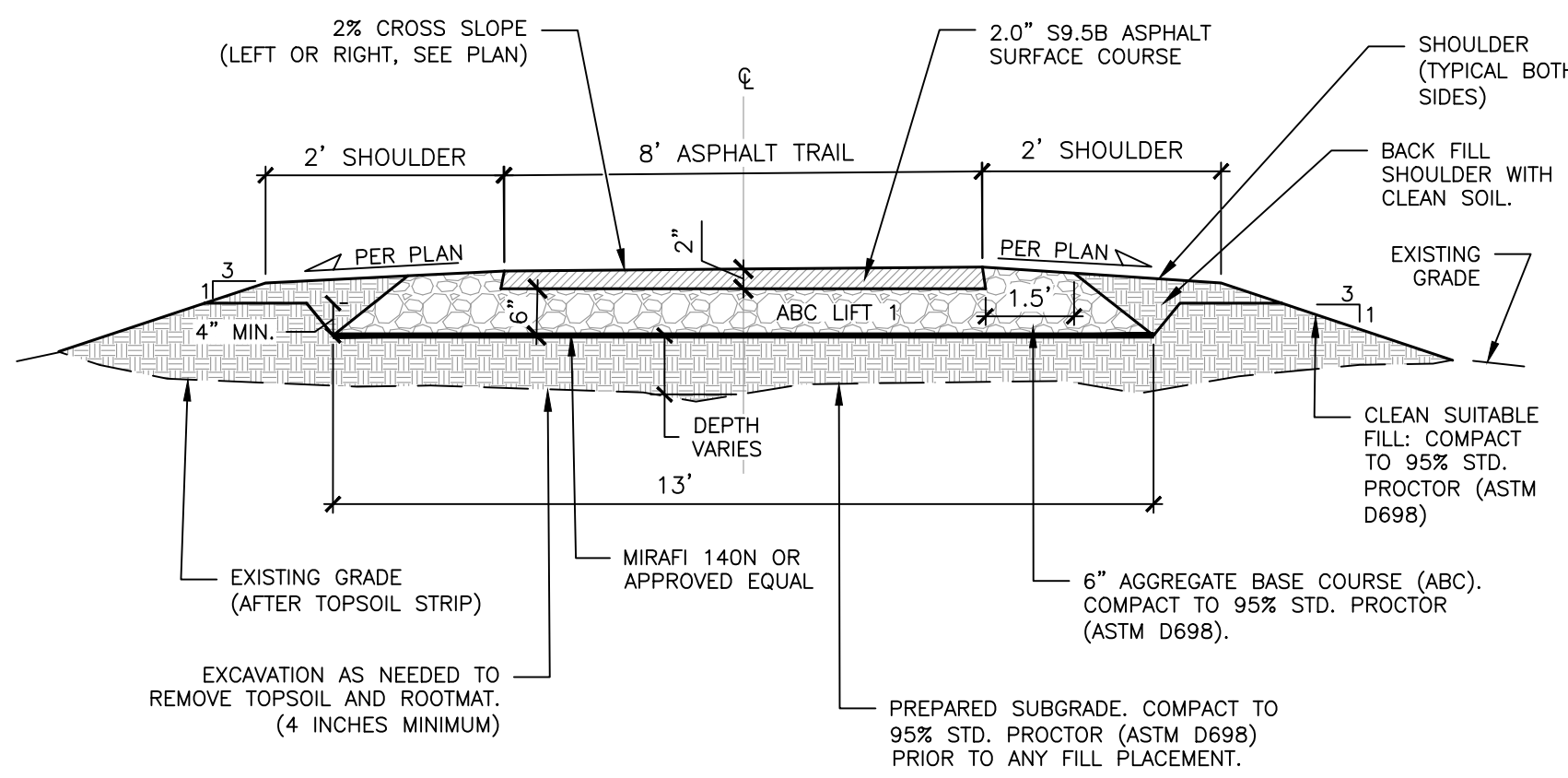
8 Playground Drainage N.T.S.

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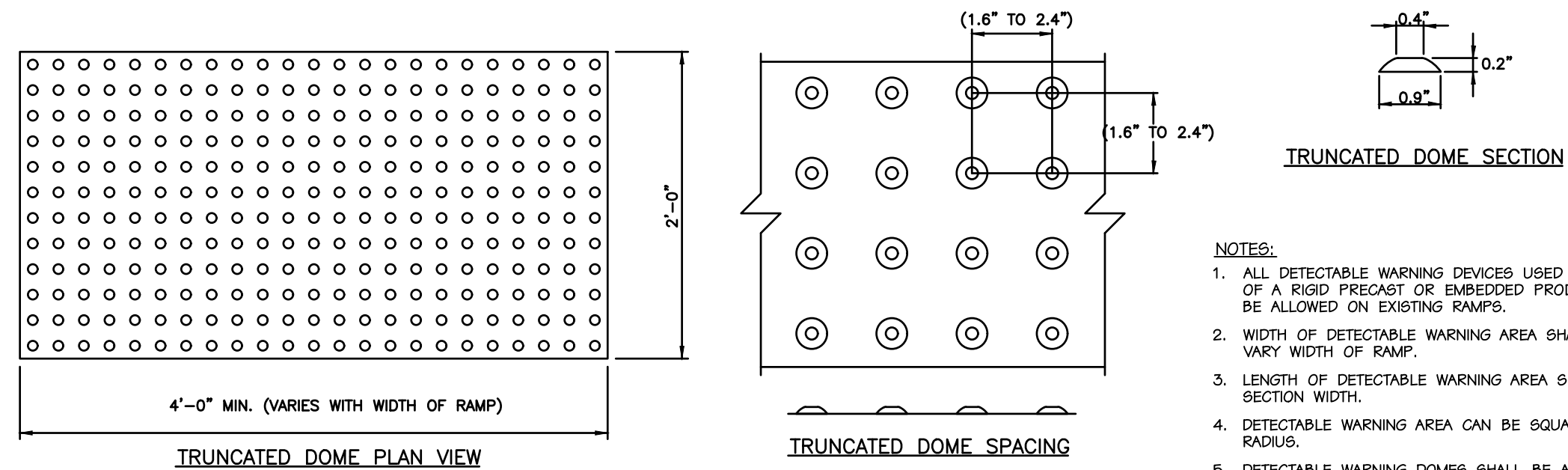
1 Concrete Paving - Vehicular

N.T.S.



2 8'-Wide Asphalt Trail with 6" Base Course

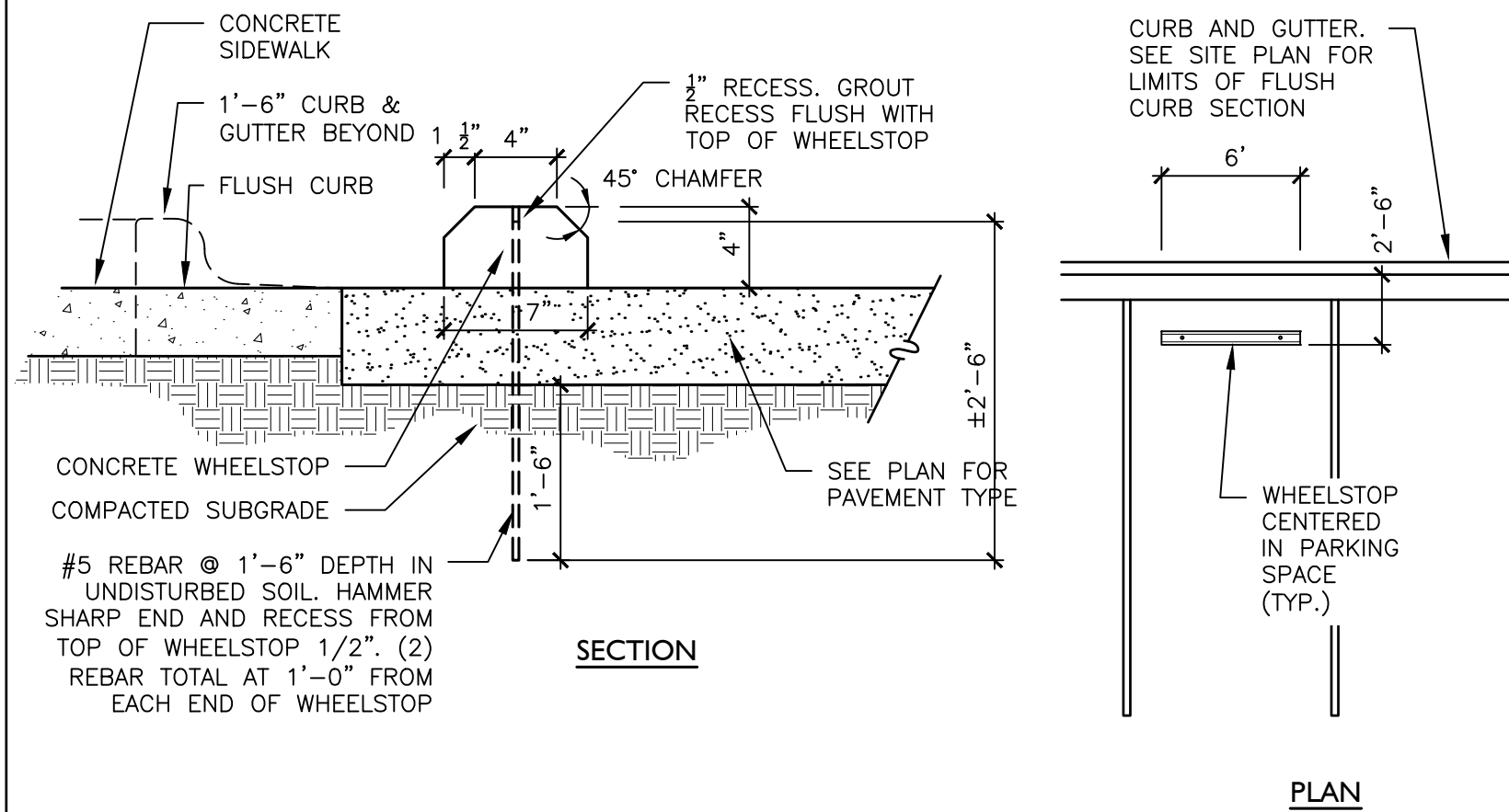
N.T.S.



3 Accessible Ramp Truncated Domes

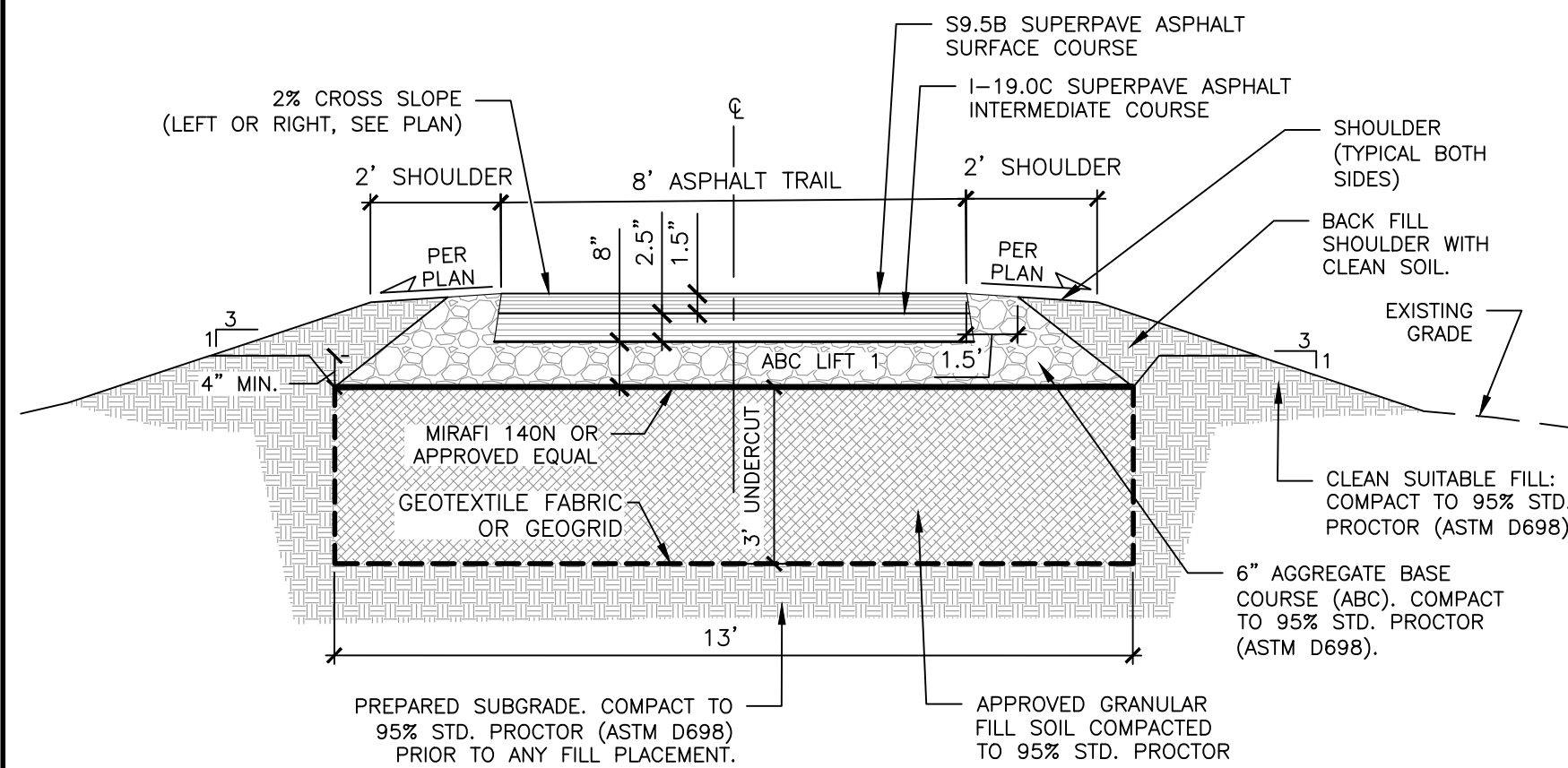
SCALE: N.T.S.

- NOTES:
1. ALL DETECTABLE WARNING DEVICES USED IN NEW CONSTRUCTION SHALL BE OF A RIGID PRECAST OR EMBEDDED PRODUCT. RETRO FIT MATS WILL ONLY BE ALLOWED ON EXISTING RAMPS.
 2. WIDTH OF DETECTABLE WARNING AREA SHALL BE A MINIMUM OF 4 FEET AND VARY WITH WIDTH OF RAMP.
 3. LENGTH OF DETECTABLE WARNING AREA SHALL BE 2 FEET REGARDLESS OF SECTION WIDTH.
 4. DETECTABLE WARNING AREA CAN BE SQUARE WHERE USED IN A CURB RADIUS.
 5. DETECTABLE WARNING DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.
 6. DETECTABLE WARNING AREA SHALL BE COLORED BLACK IN ALL LOCATIONS.
 7. IF PAVERS ARE TO BE USED, PAVERS SHALL BE 6" THICK AND CAST FROM 5000 psi CONCRETE.
 8. MATS ARE TO BE RIGID WITH THE TURN DOWN EDGES EMBEDDED IN CONCRETE TO ELIMINATE TRIP HAZARD.



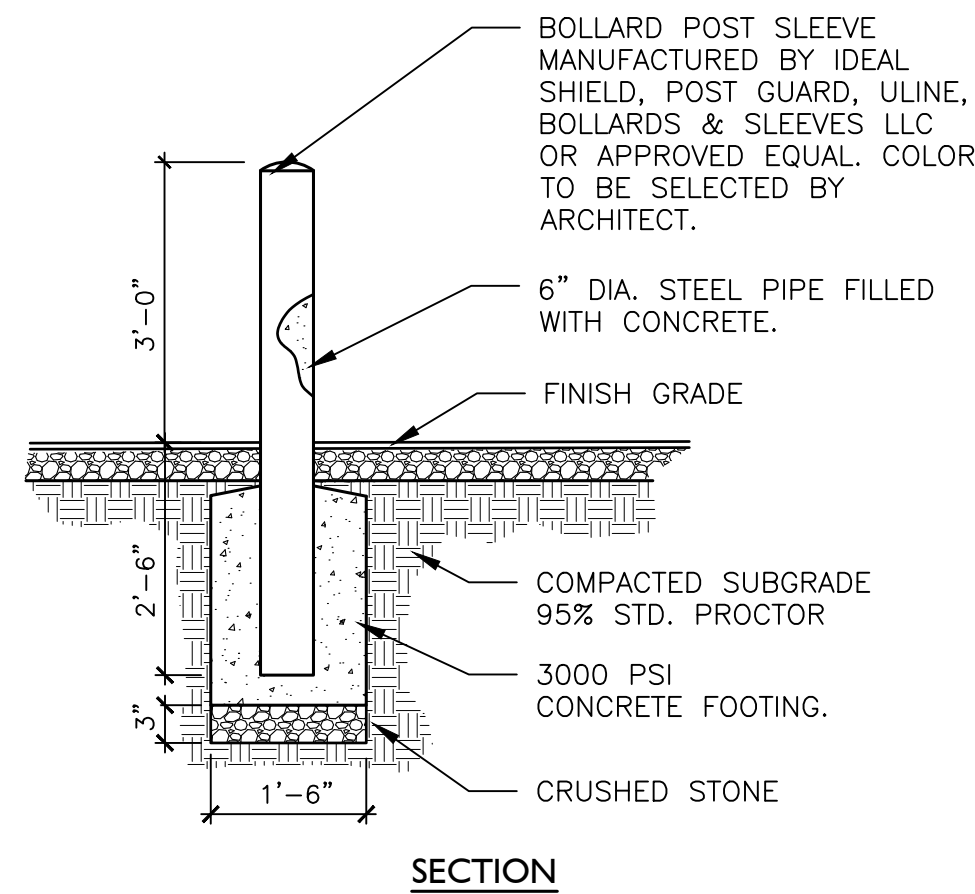
4 Concrete Wheelstop

N.T.S.



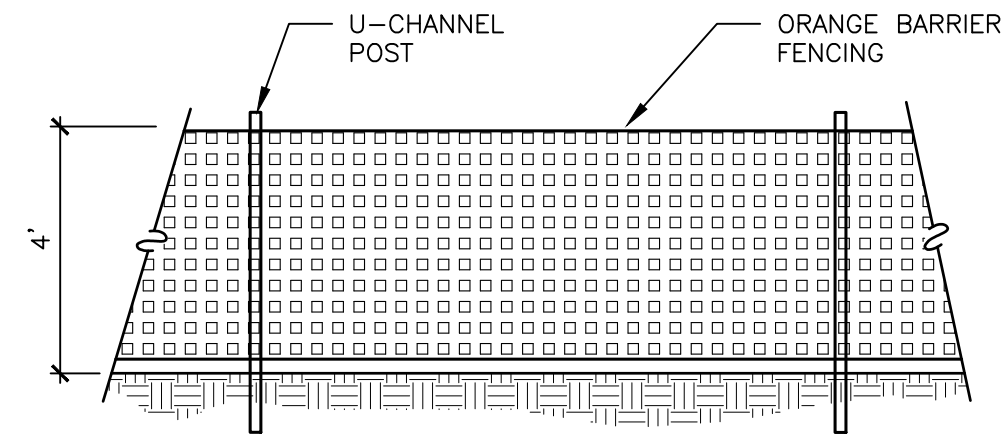
5 8'-Wide Asphalt Trail Within Duke Energy R/W (Undercut)

N.T.S.



6 Steel Bollard

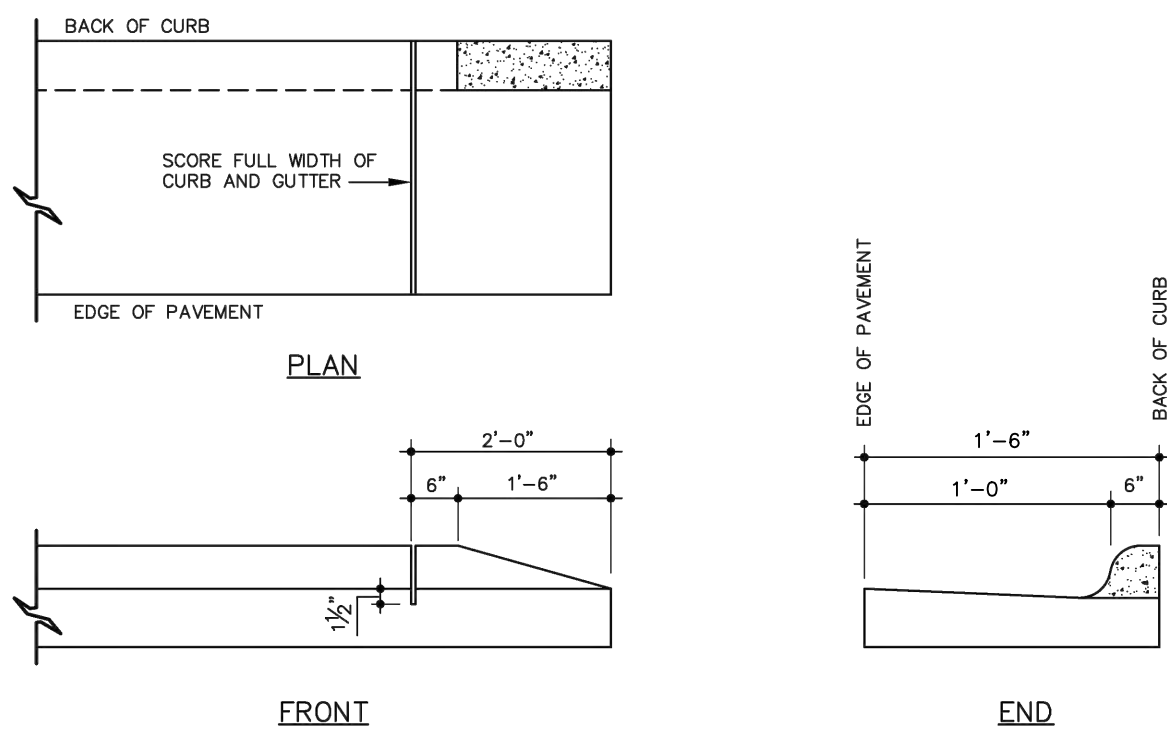
N.T.S.



- NOTES
1. CONTRACTOR TO INSTALL AND MAINTAIN ORANGE BARRIER FENCING AROUND EXISTING TREES WHERE DELINEATED ON PLAN.
 2. NO PARKING OF EQUIPMENT OR MATERIALS SHALL BE PERMITTED INSIDE THIS AREA.
 3. MAINTAIN BARRIER FENCING THROUGH CONSTRUCTION. REMOVE ALL BARRIERS UPON COMPLETION OF PROJECT.
 4. REFER TO NCDENR STANDARDS FOR GENERAL SPECIFICATIONS REGARDING TREE PROTECTION.
 5. 6" MINIMUM WIDTH FOR 2" CAL. TREES OR SMALLER.
 6. ONE FOOT OF LINEAR DISTANCE FROM THE TREE TRUNK FOR EACH INCH OF TRUNK DIAMETER, OR 1/2 HEIGHT OF THE TREE WHICHEVER IS GREATER UNLESS OTHERWISE SHOWN ON PLAN.

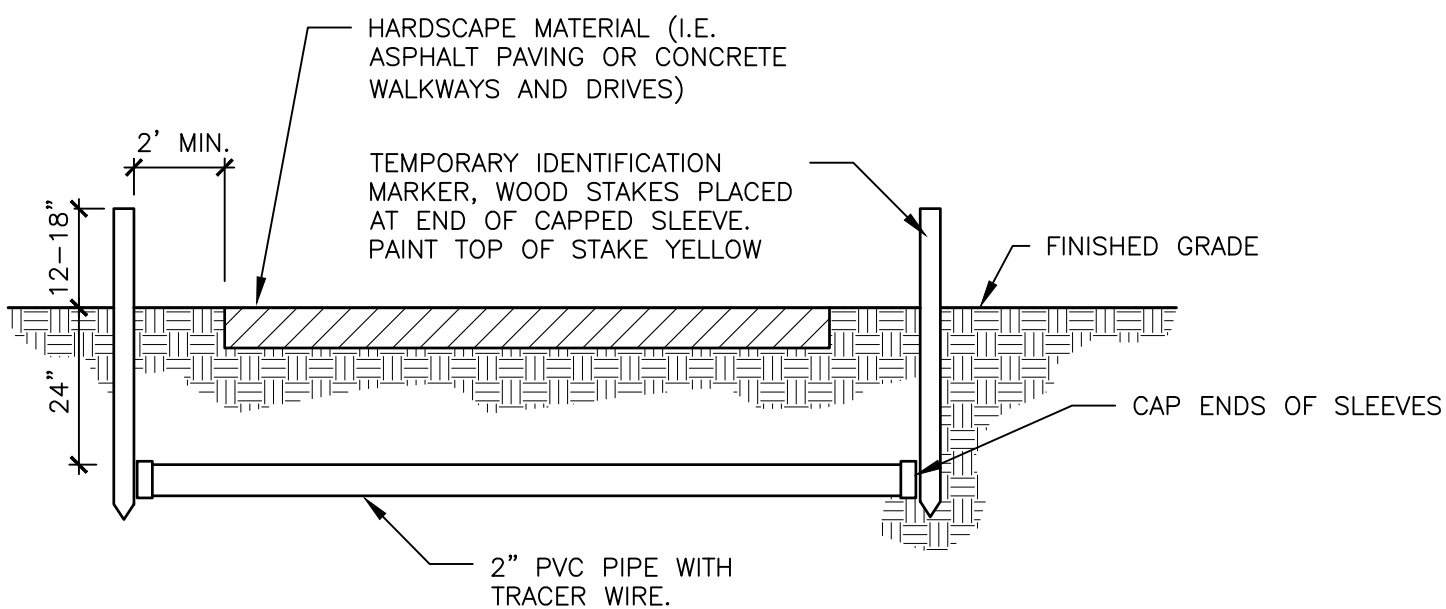
7 Temporary Tree Protection Barricade

N.T.S.



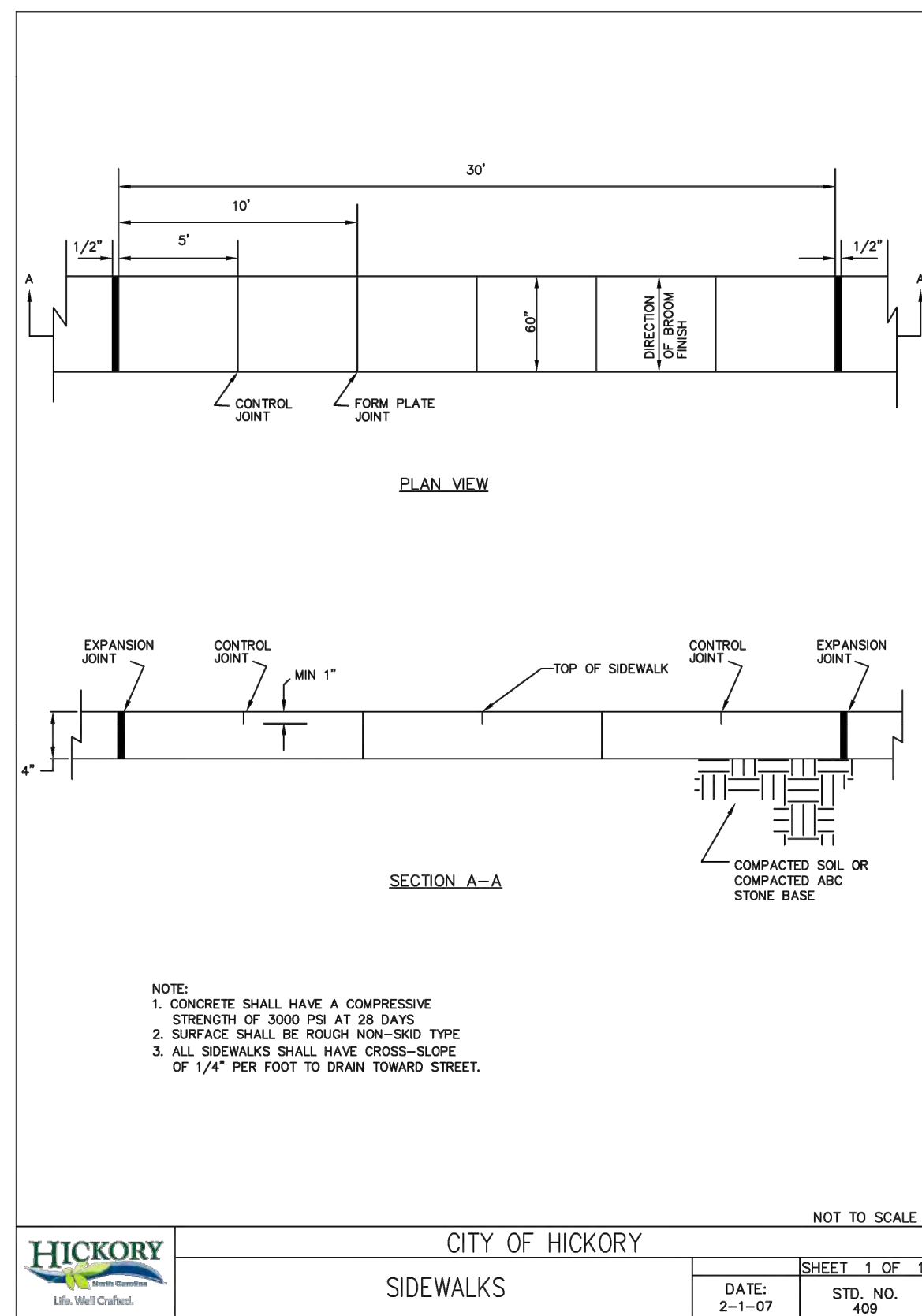
8 Curb Taper

SCALE: N.T.S.



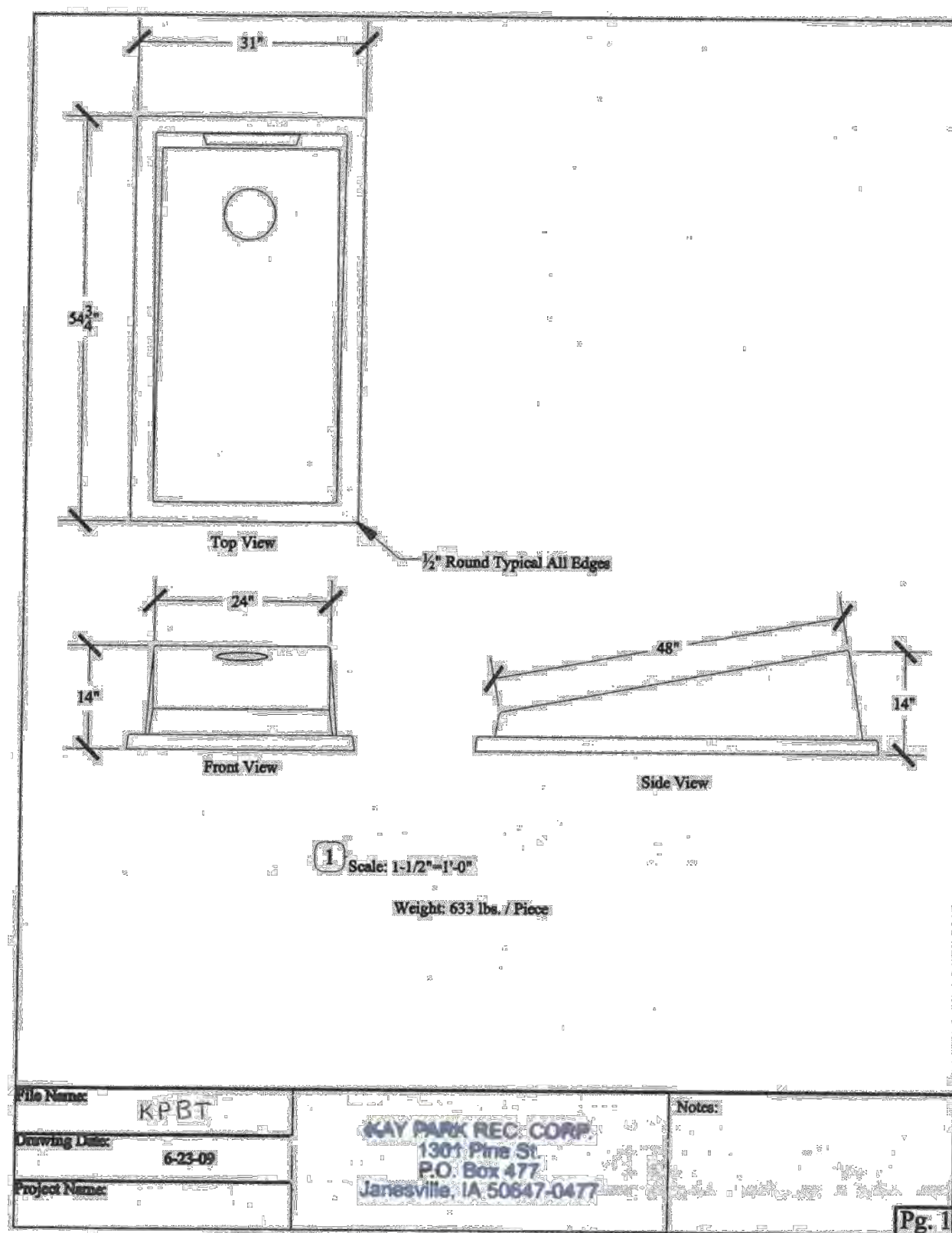
9 PVC Sleeve

N.T.S.



10 Sidewalks

City of Hickory STD. 409



11 Concrete Cornhole

Manufacturer Provided



Concrete cornhole boards are ideal for public parks, schools, recreational areas, and other outdoor spaces.

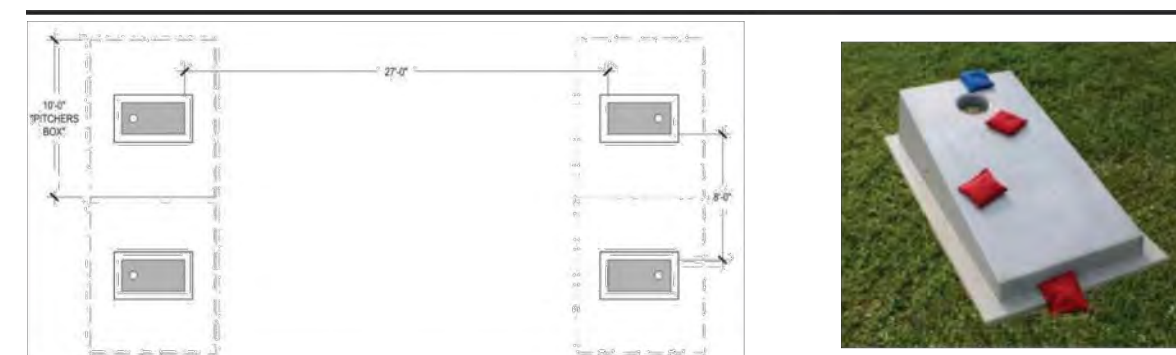
DELIVERY/ PLACEMENT
(Concrete Cornhole)

IMPORTANT: Call ahead and liftgate services are always included with the delivery of the concrete cornhole game. The freight carrier will call prior to delivery to schedule a date and time that works for the customer. They will also provide a liftgate to lower the items to the ground.

NOTE: It is the customer's responsibility to move and place the items from the ground. Please be sure to place the boards onto level ground, which can be any surface (e.g., grass, gravel, or concrete) as long as it is level.

LIFTING THE BOARDS SAFELY:

- 1- Carefully thread 1/2-13 x 4" bolts (not included) into inserts located on the sides of the unit. Make sure bolts are threaded into inserts at least one inch. Hand tighten only, do NOT use a wrench.
- 2- Use a nylon lifting strap and loop around bolt as shown. Make sure the nylon strap is rated for lifting an object that is 633 lbs.
- 3- Place cardboard or padding between strap and concrete.
- 4- Carefully raise the unit making sure the pickup point is in the center so the unit lifts level.
- 5- Carefully lower unit at desired location.



Kay Park Recreation | 1301 Pine St., Janesville, IA 50647 | Phone: 866-741-8266

Seals:

557

7/23/2026

Corp. NC License: F-1320

Sandy Pines Park

"Initial Phase"

2301 21st Avenue NE

Hickory, North Carolina

Project no: 1726.500006.00

Date: 07.17.26

Revisions:

Sheet Title:

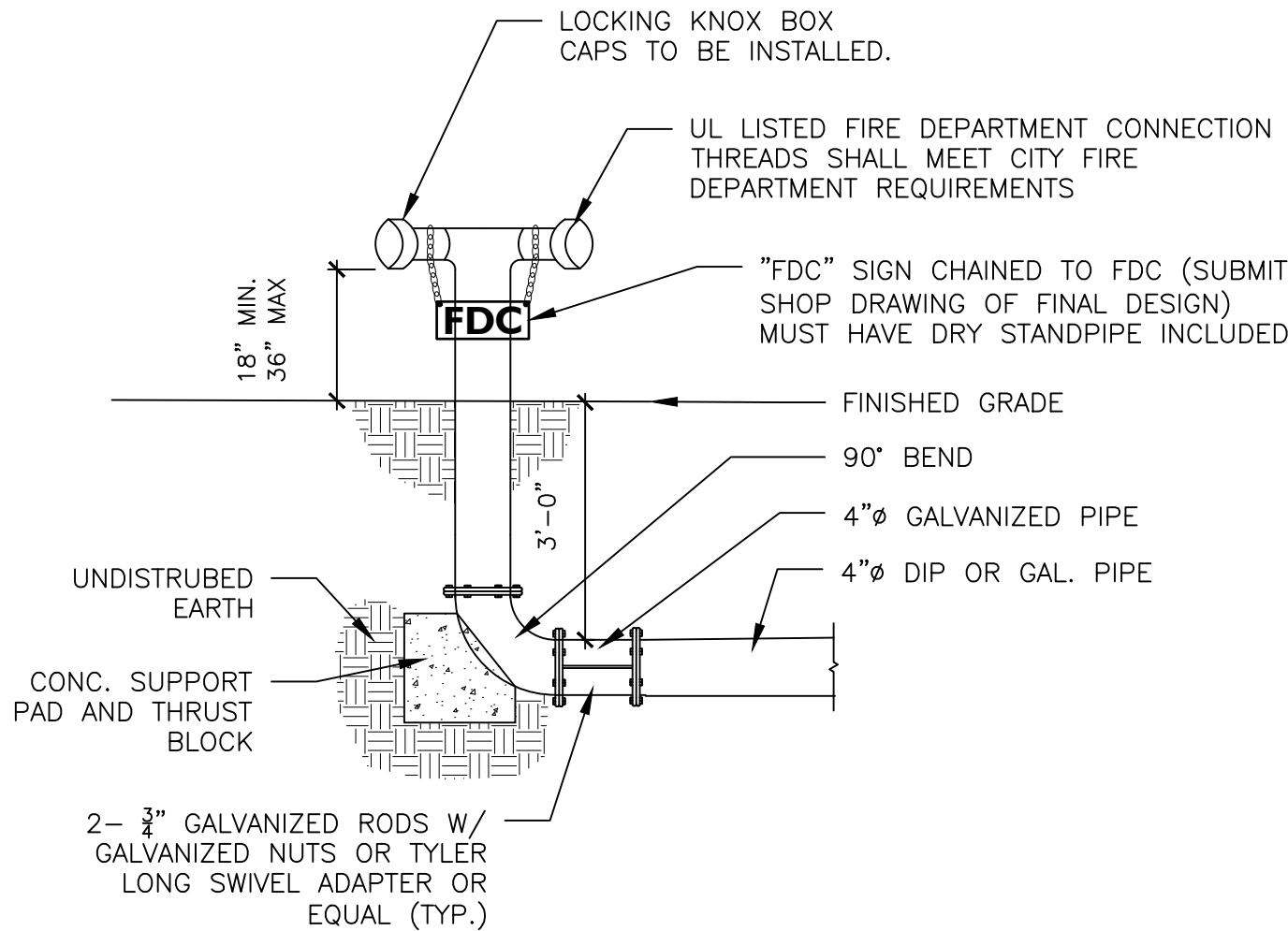
DETAILS

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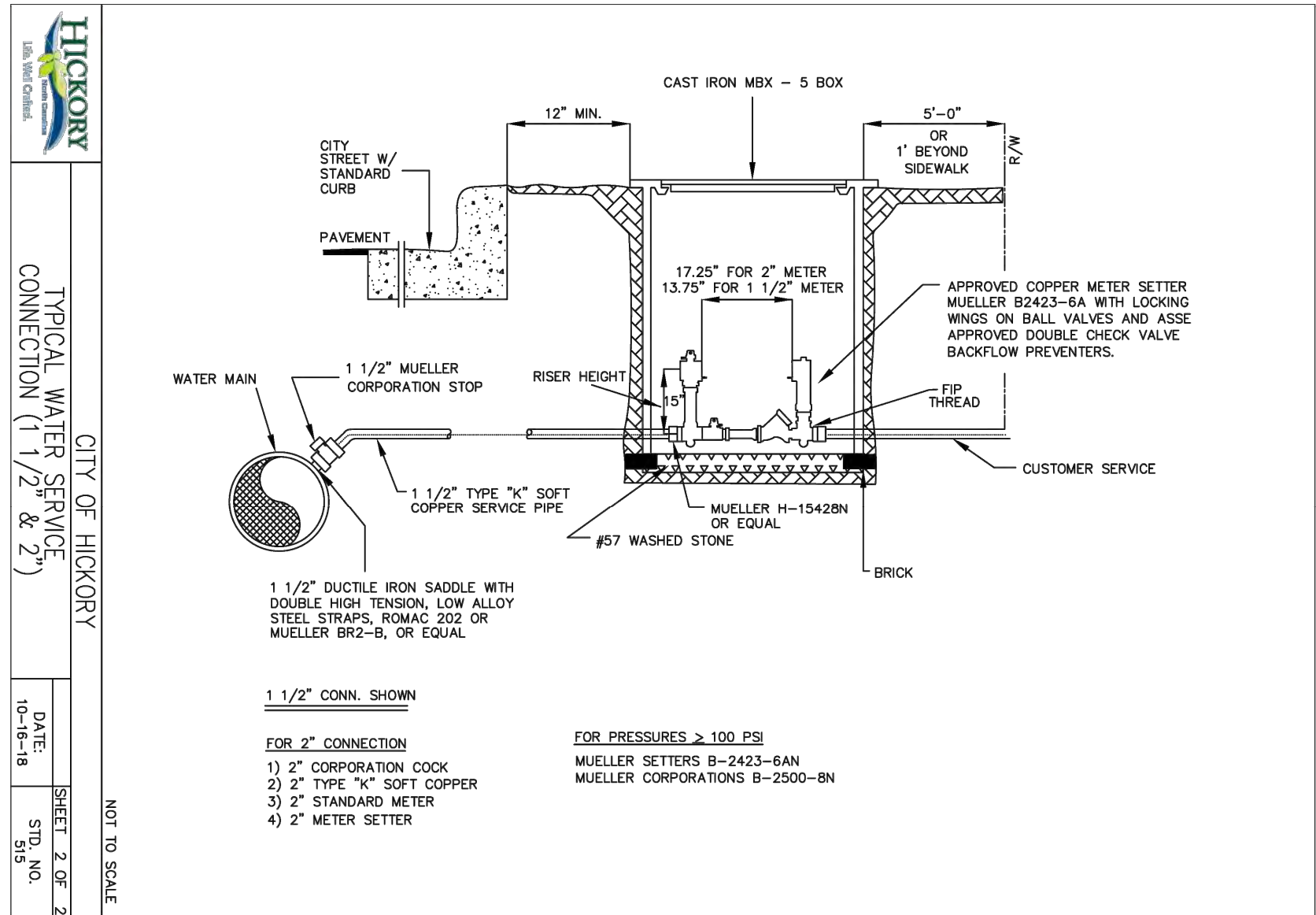
C504

benesch

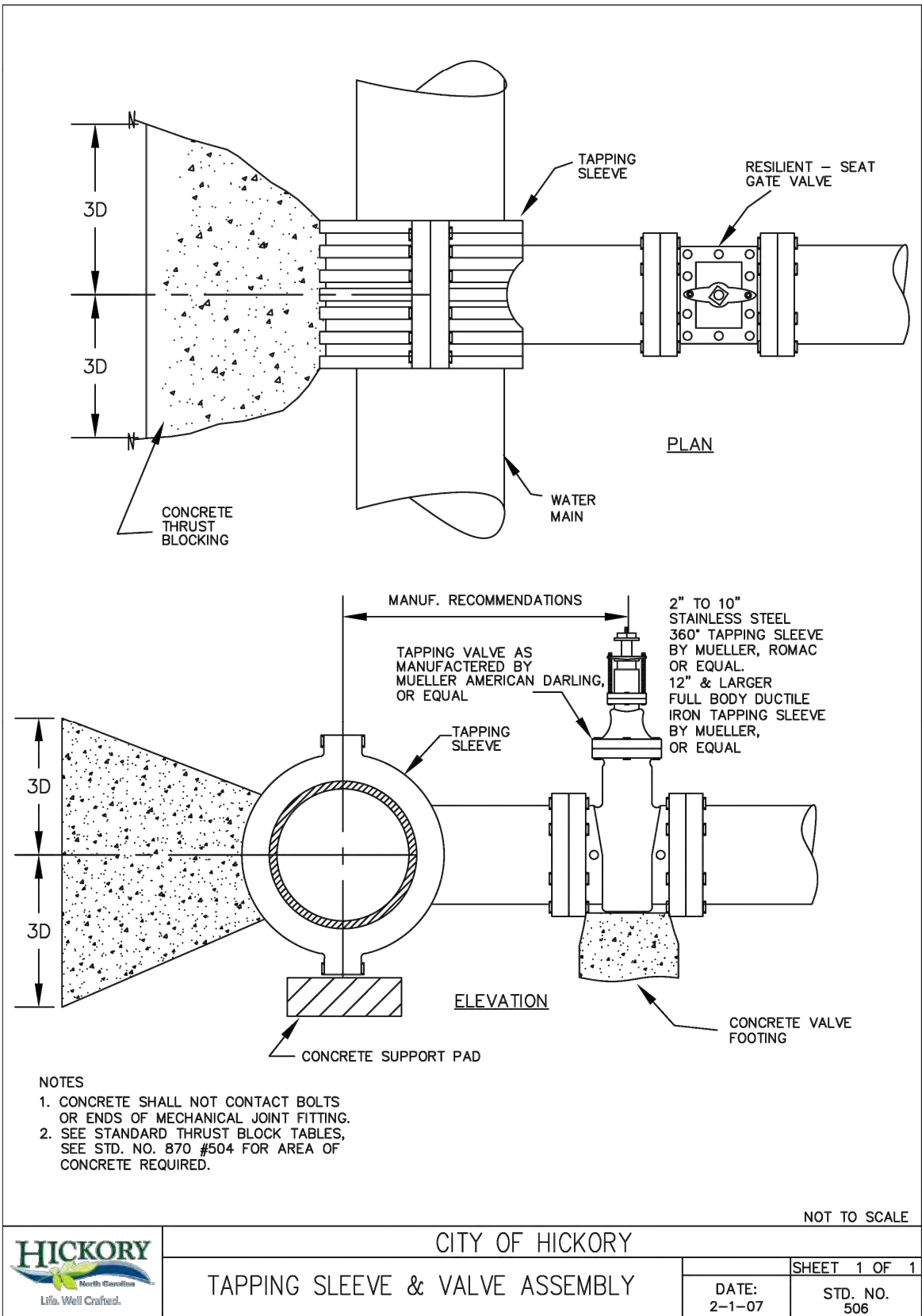
Alfred Benesch & Company
100 Parkway, NC 28308
www.benesch.com
P 704.521.9880



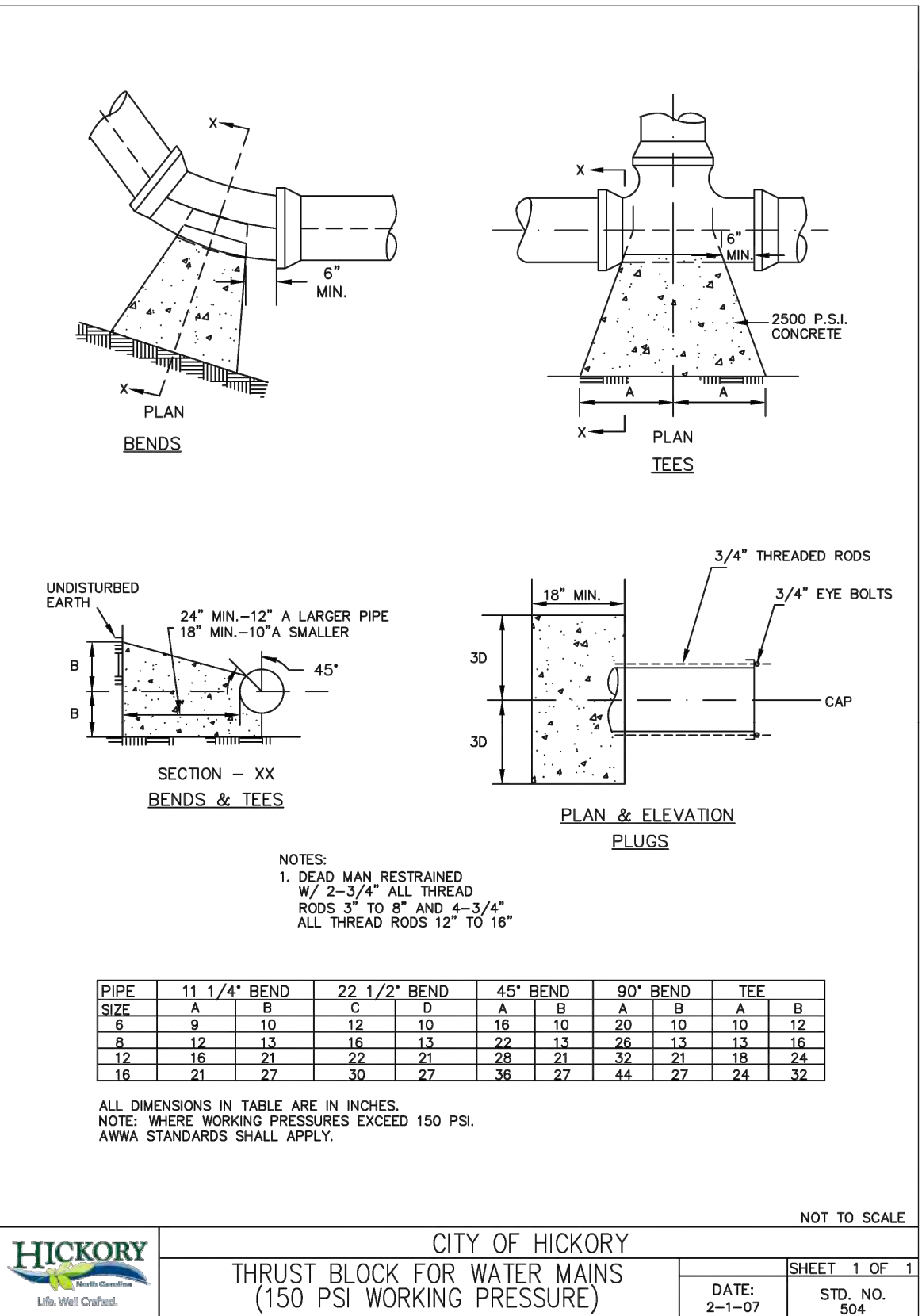
1 Fire Department Connection
N.T.S.



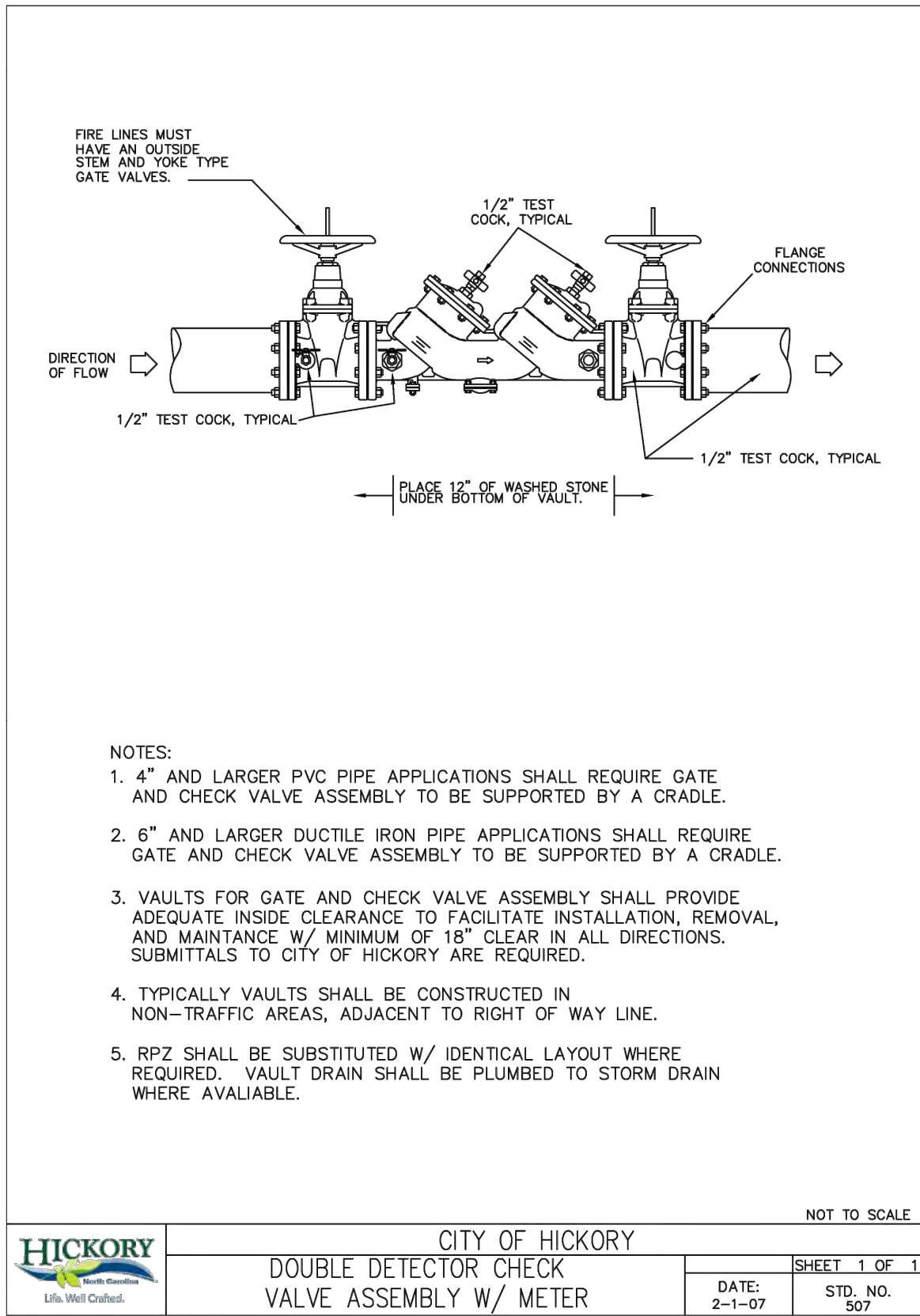
2 Typical Water Service Connection (1 1/2" & 2")
City of Hickory STD. 515



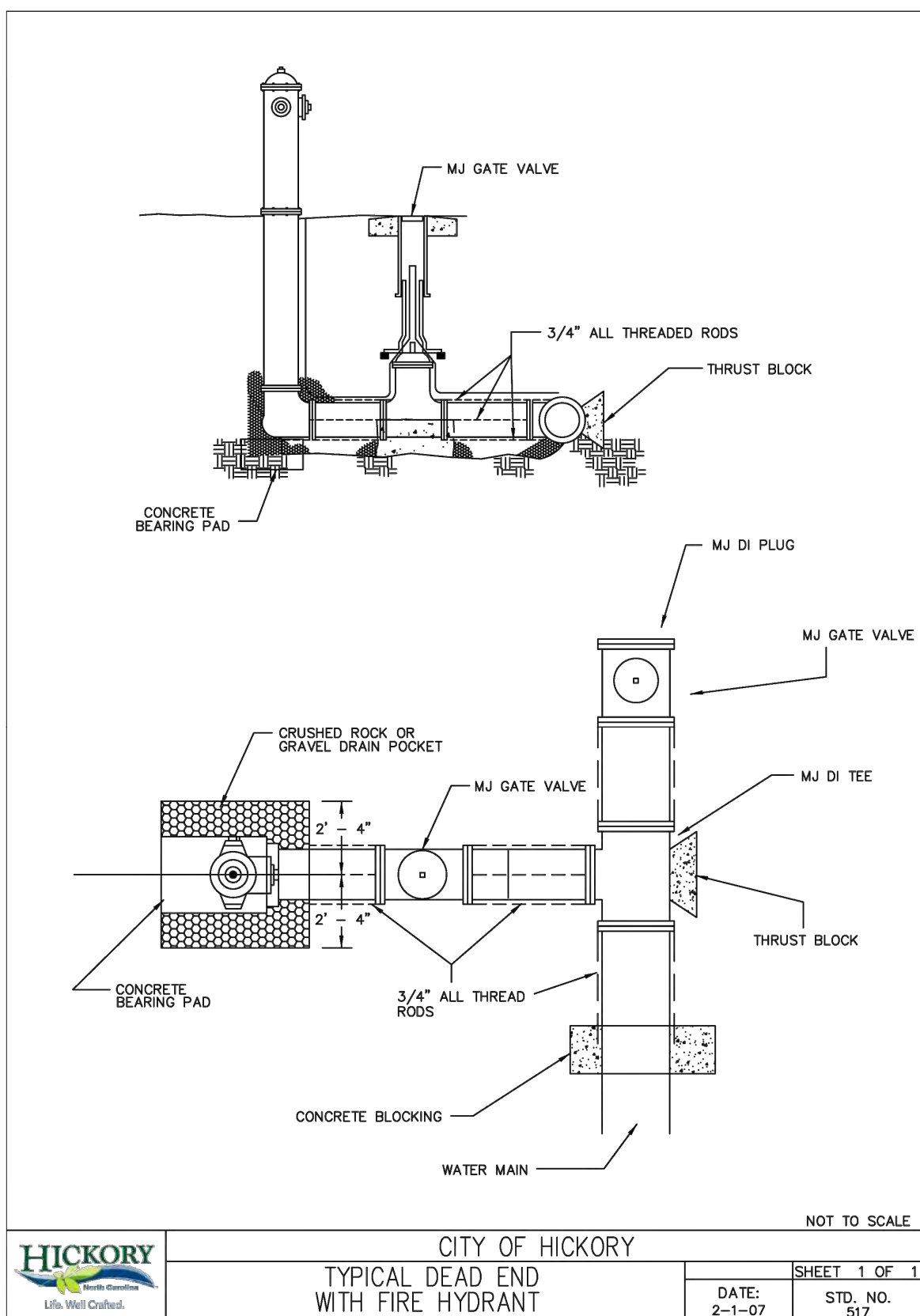
3 Tapping Sleeve & Valve Assembly
City of Hickory STD. 506



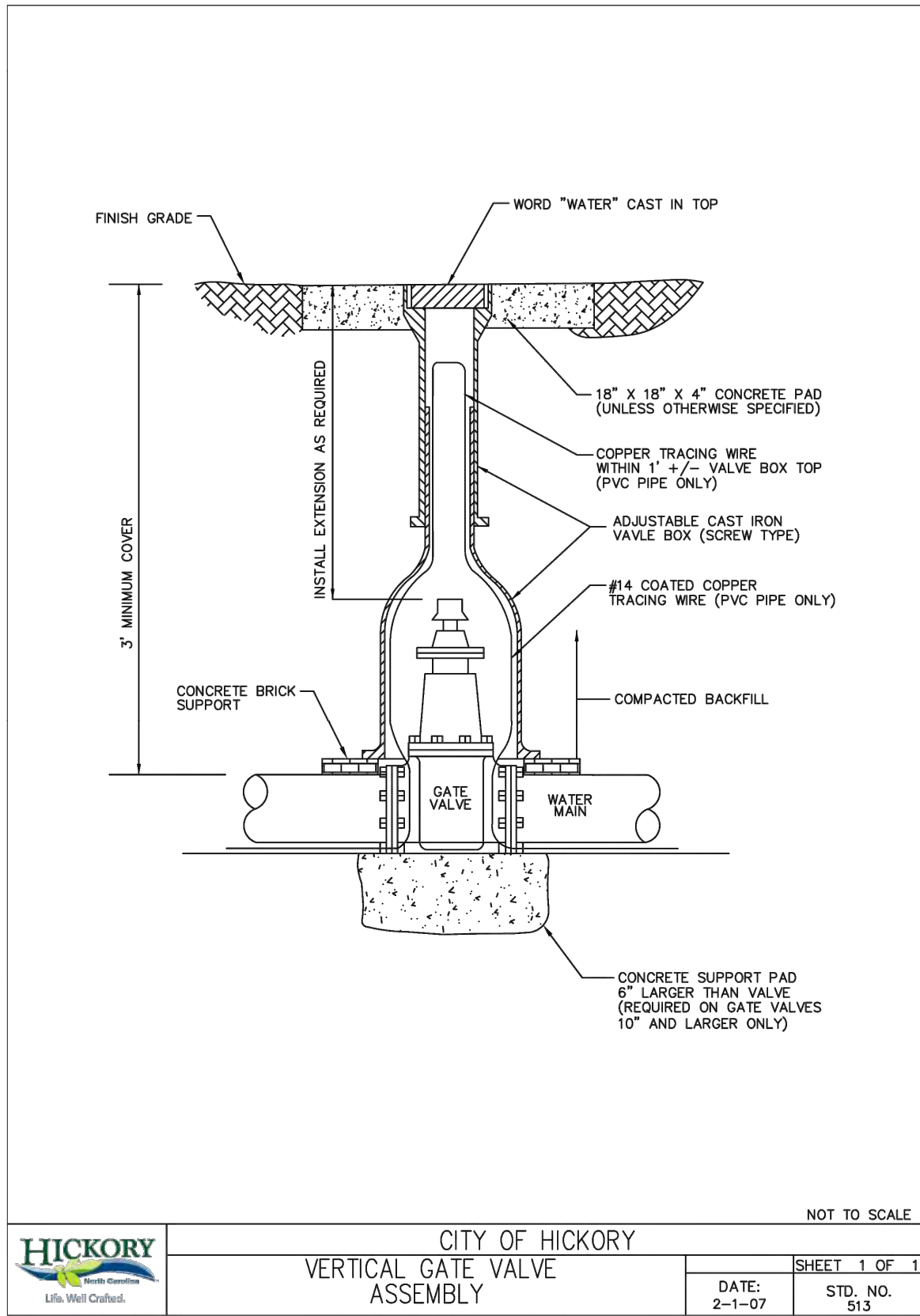
4 Thrust Block for Water Mains
City of Hickory STD. 504



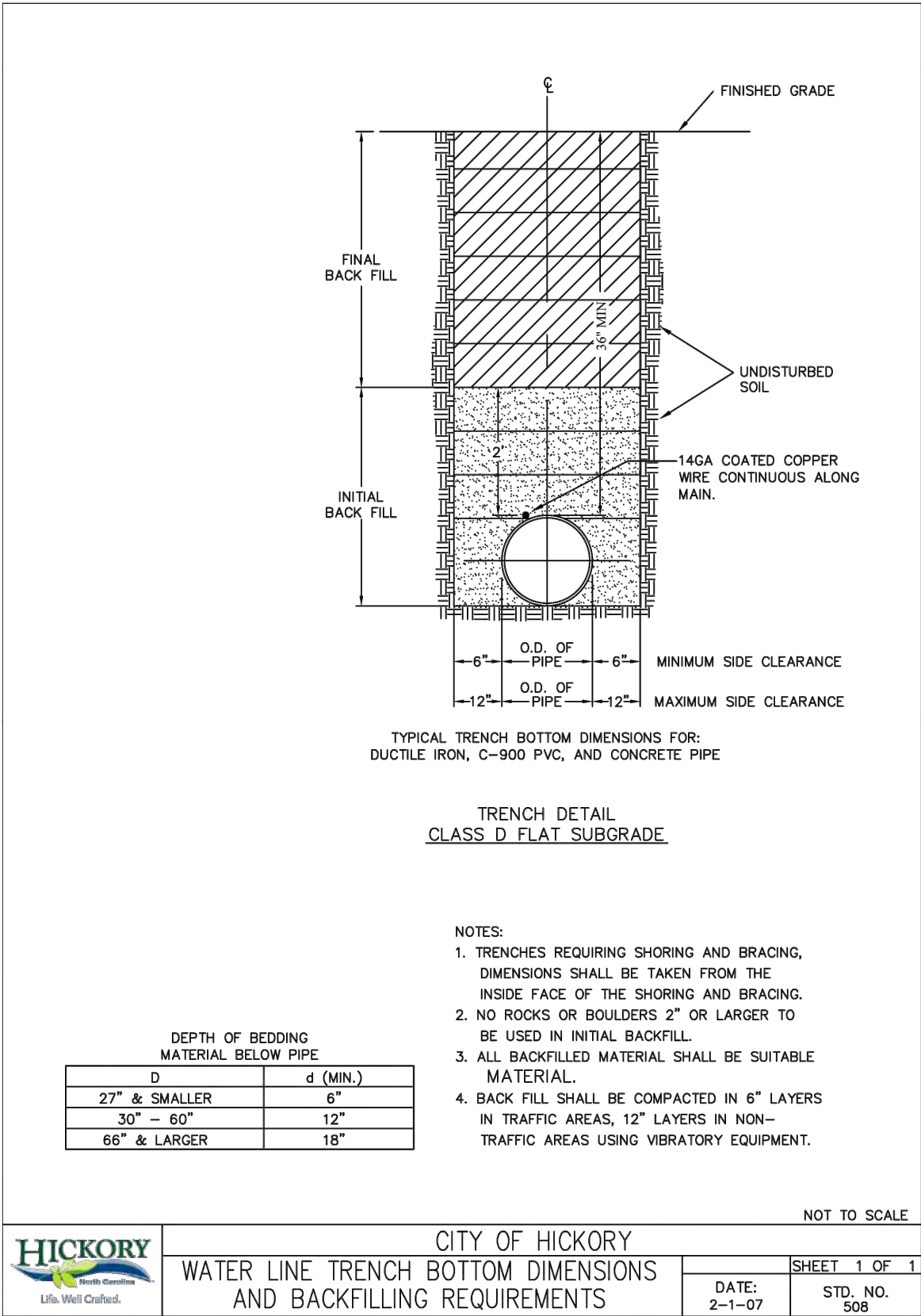
5 Double Detector Check Valve Assembly w/ Meter
City of Hickory STD. 507



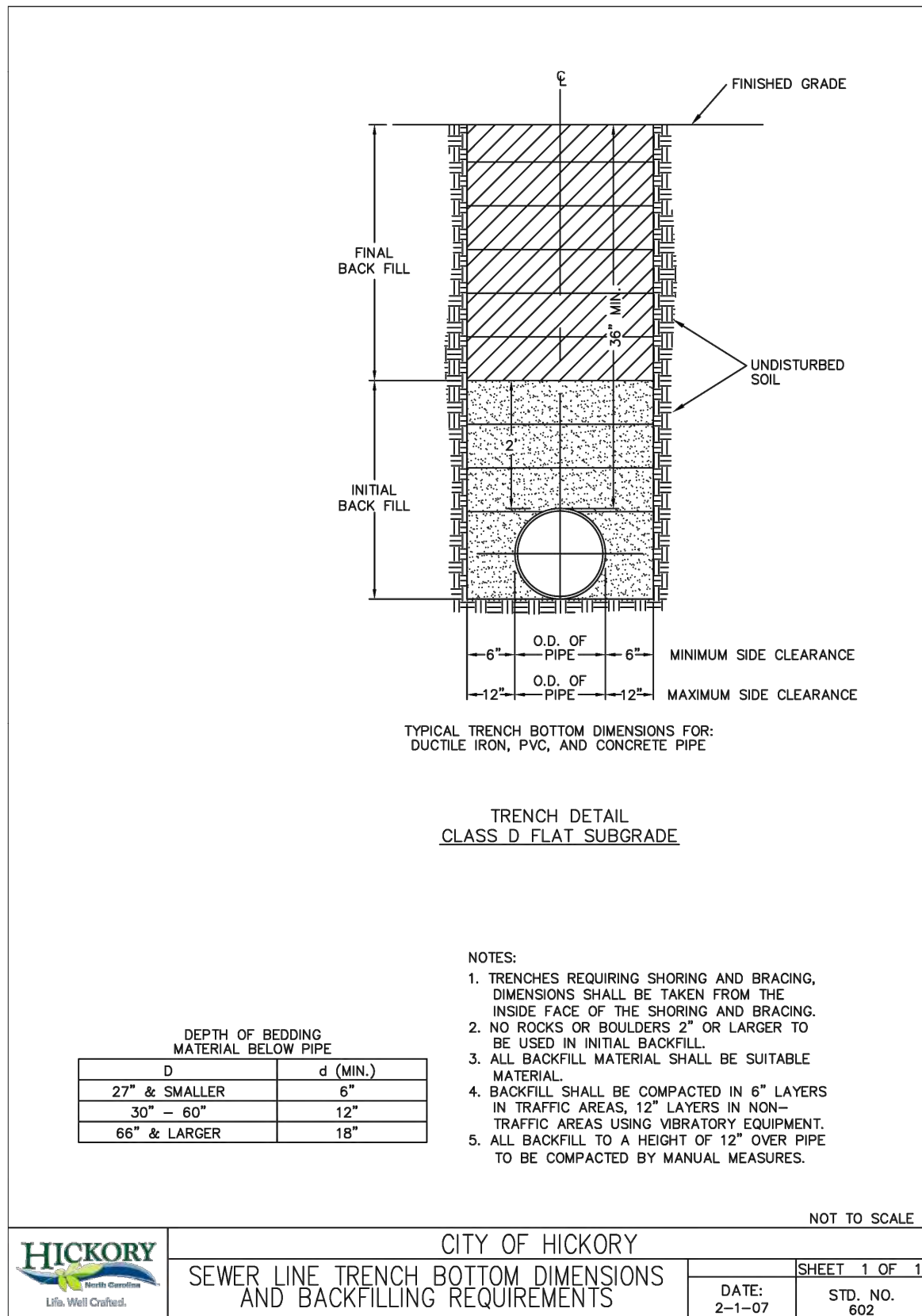
6 Typical Dead End with Fire Hydrant
City of Hickory STD. 517



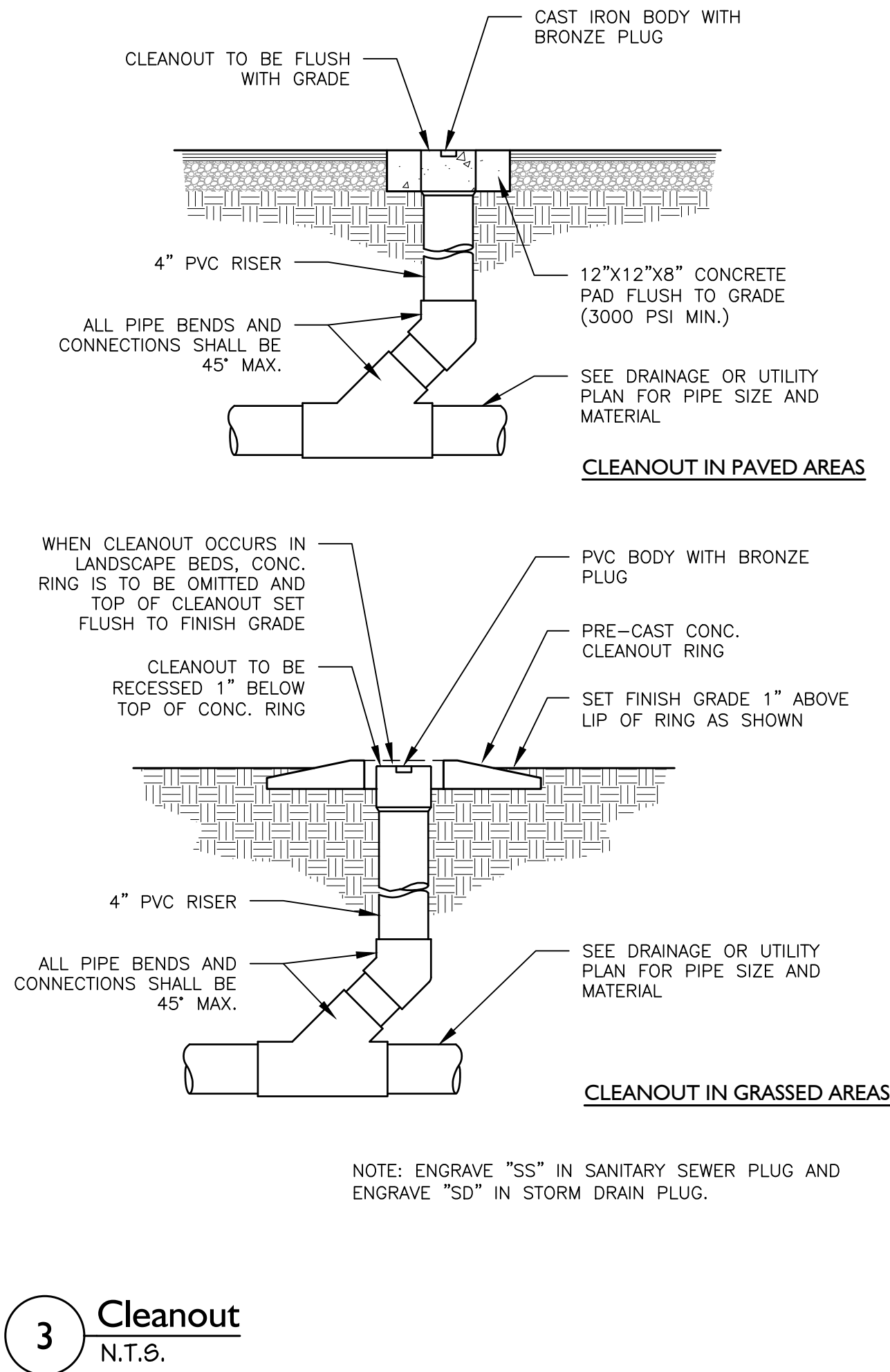
7 Vertical Gate Valve Assembly
City of Hickory STD. 513



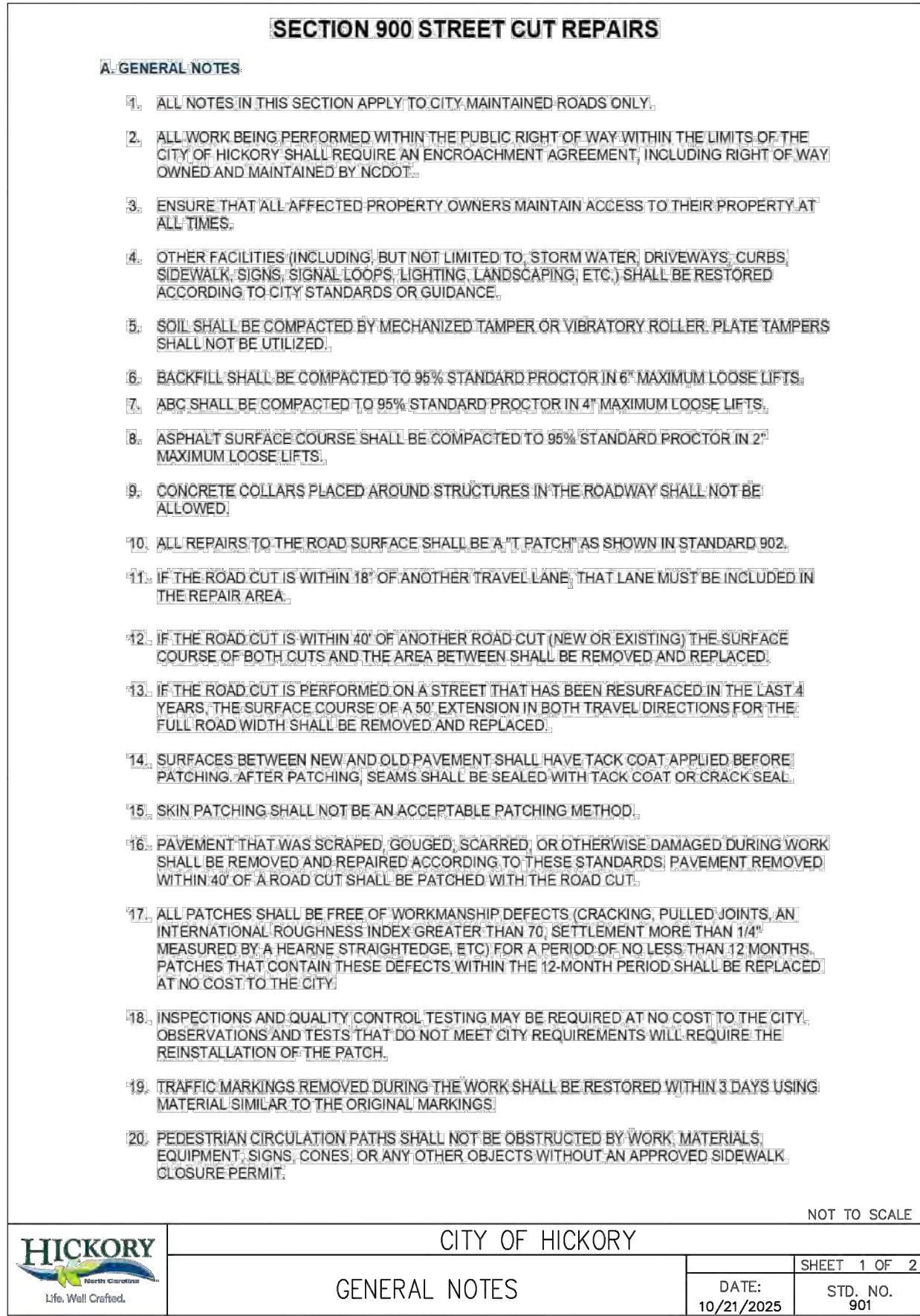
1 Water Line Trench Bottom Dimensions and Backfilling Requirements
City of Hickory STD. 508



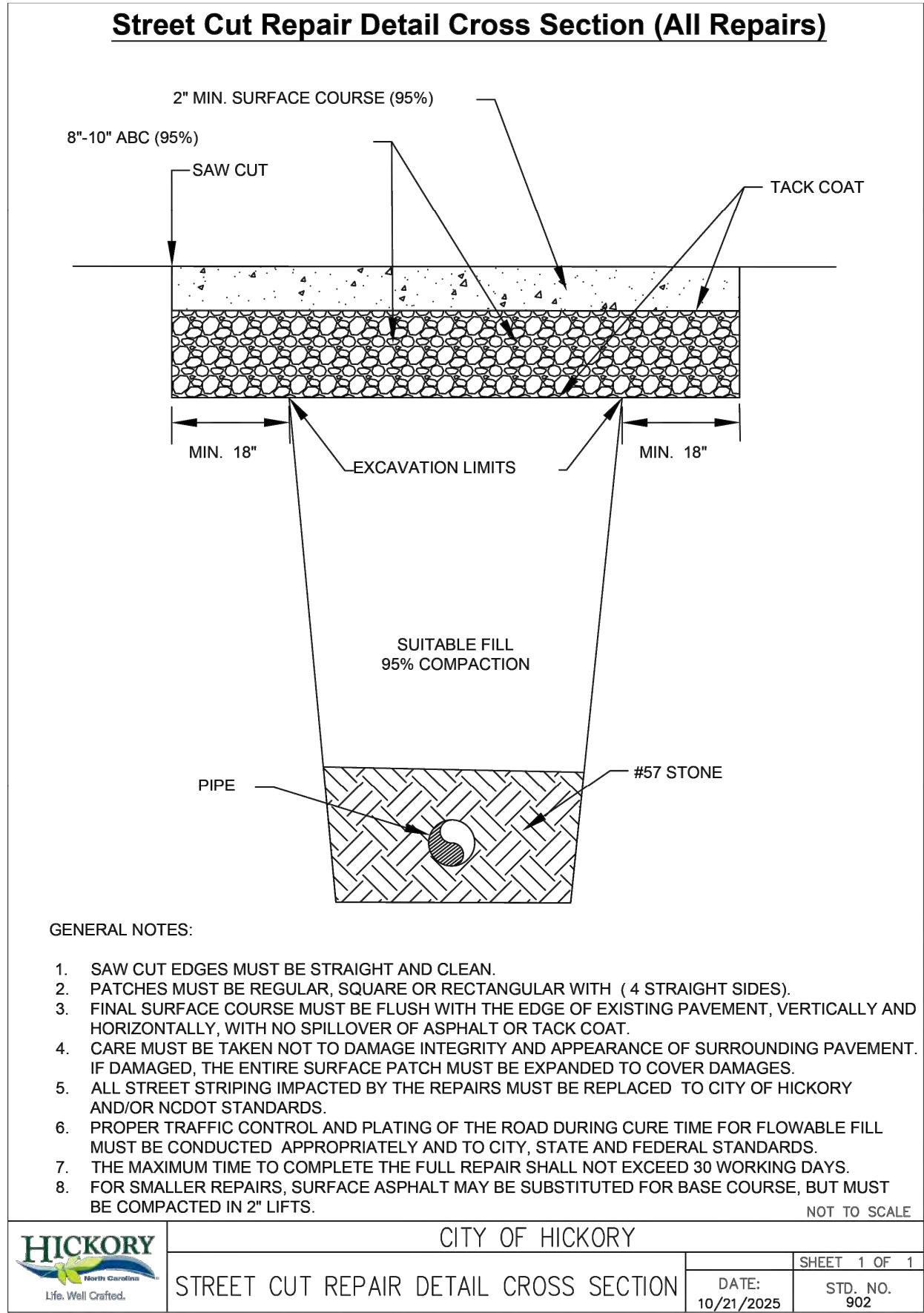
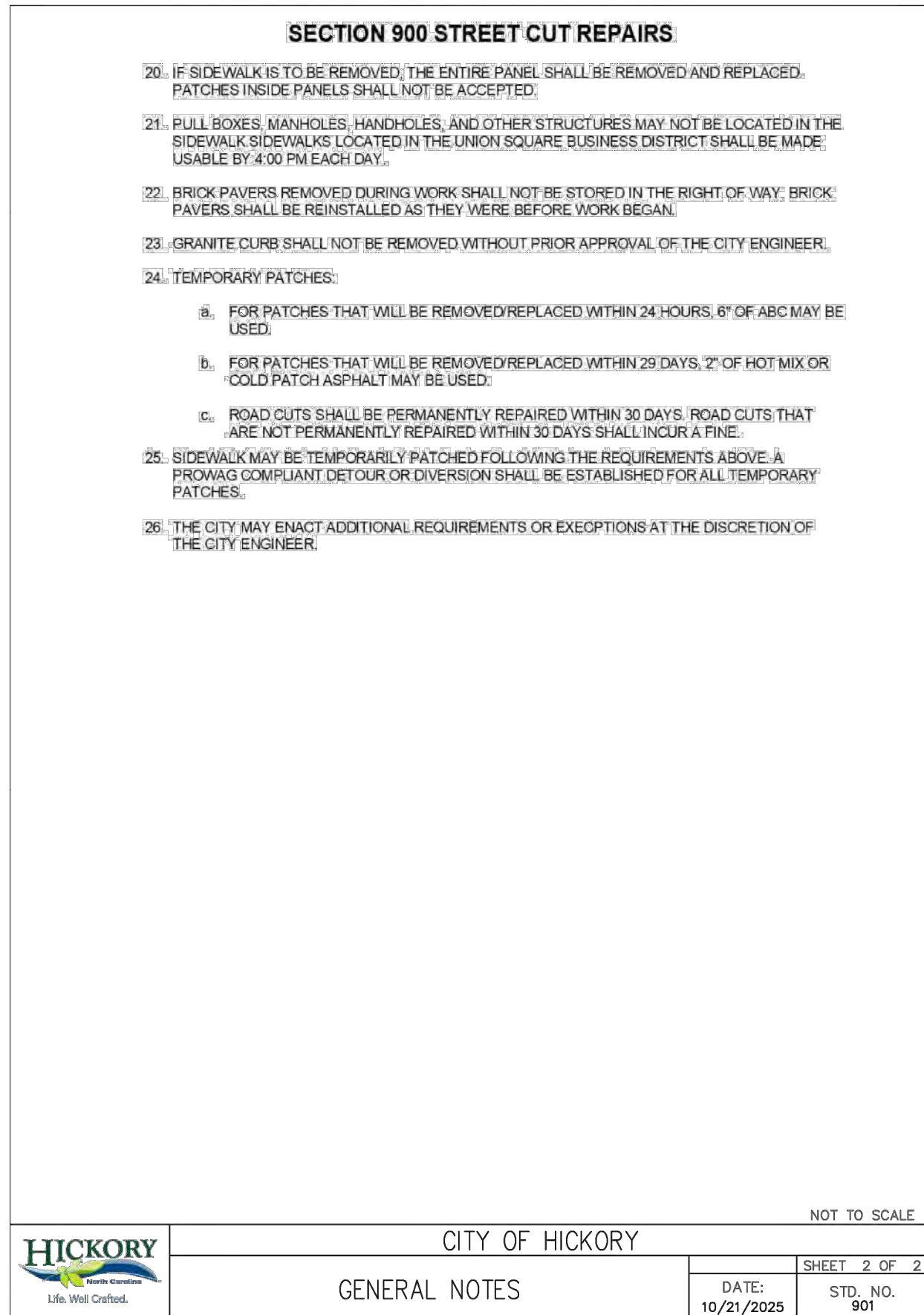
2 Sewer Line Trench Bottom Dimensions and Backfilling Requirements
City of Hickory STD. 602



3 Cleanout
N.T.S.

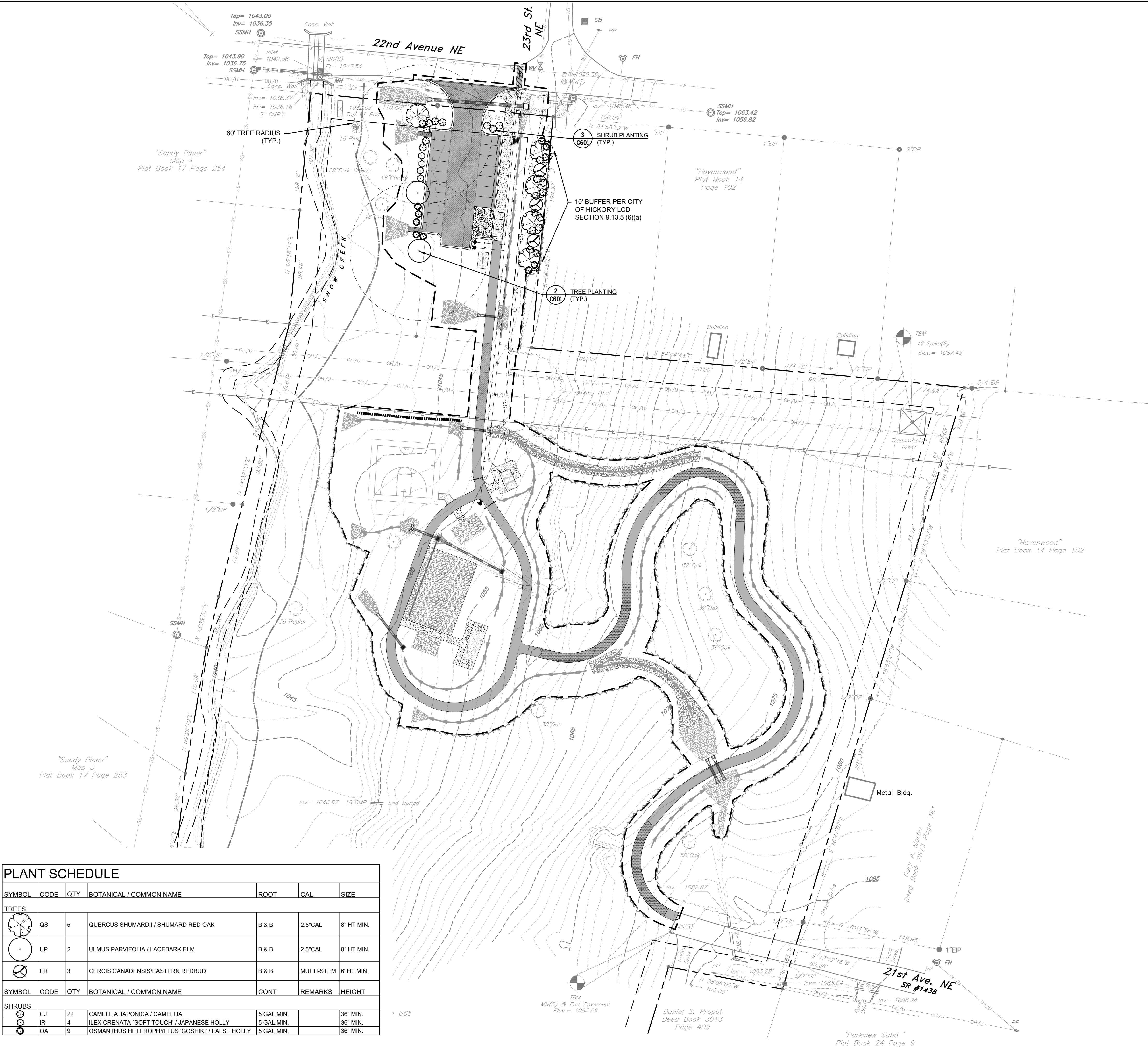


4 Street Cut Repairs
City of Hickory STD. 901 & 902



Y:\North Carolina\1726-500006.00_SSPark_Initial Phase\Eng_Docs\Drawings\1726-500006.00-CD\1726-500006.00.1100 - LANDSCAPE PLAN.dwg

PLANT SCHEDULE						
SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	ROOT	CAL.	SIZE
TREES						
	QS	5	QUERCUS SHUMARDII / SHUMARD RED OAK	B & B	2.5" CAL	8' HT MIN.
	UP	2	ULMUS PARVIFOLIA / LACEBARK ELM	B & B	2.5" CAL	8' HT MIN.
	ER	3	CERCIS CANADENSIS/EASTERN REDBUD	B & B	MULTI-STEM	6' HT MIN.
SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	REMARKS	HEIGHT
SHRUBS						
	CJ	22	CAMELLIA JAPONICA / CAMELLIA	5 GAL. MIN.		36" MIN.
	IR	4	ILEX CRENATA 'SOFT TOUCH' / JAPANESE HOLLY	5 GAL. MIN.		36" MIN.
	OA	9	OSMANTHUS HETEROPHYLLUS 'GOSHIKI' / FALSE HOLLY	5 GAL. MIN.		36" MIN.



PLANT MATERIAL

- MINIMUM TREE SIZE AT PLANTING IS 2" CALIPER AND 8' TALL FOR SINGLE-STEM TREES. ALL MULTI-STEM PLANTS MUST BE TREE FORM, MAXIMUM 3 TO 5 TRUNKS, AND MINIMUM 10' TALL.
- ALL NEW TREES MUST HAVE STRAIGHT TRUNKS WITH STRONG CENTRAL LEADERS INTACT TO THE TOP OF THE CROWN UNLESS MULTI-STEM TREES ARE SPECIFIED. ALL TREES SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY, HAVE NORMAL GROWTH HABITS, HAVE WELL-DEVELOPED BRANCHES, BE VIGOROUS AND HAVE FIBROUS ROOT SYSTEMS. TREES WITH CO-DOMINANT BRANCHING WILL NOT BE ACCEPTED. TREES THAT HAVE BEEN SHEARED, TOPPED OR CUT BACK TO MULTIPLY THE BRANCHING STRUCTURE WILL NOT BE ACCEPTED. TREES SHALL BE FREE OF ABRASIONS, DAMAGE, DISEASE, PESTS AND CRACKS. ALL PRUNING CUTS GREATER THAN 1/2" DIAMETER SHALL HAVE CALLUS TISSUE FORMED PRIOR TO PLANTING. NO PRUNING CUT ON THE TRUNK SHALL BE MORE THAN ONE-HALF THE DIAMETER OF THE CENTRAL LEADER AT THE HEIGHT WHERE THE CUT WAS MADE. ROOT FLARES SHALL BE LOCATED AT GRADE. TREES WITH MORE THAN 2" OF SOIL COVERING THE ROOT BALL/FLARE FROM WILL NOT BE ACCEPTED.
- SIZE OF PLANTS, SPREAD OF ROOTS AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH ANSI Z60.1 (LATEST EDITION) AS PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION.
- ALL TREES OF A PARTICULAR SPECIES AND VARIETY SHALL BE UNIFORM IN SIZE AND CONFIGURATION.

PLANTING REQUIREMENTS

- PLASTIC HOSE PARTS WILL NOT BE ACCEPTED FOR TREE STAKING. SEE DETAILS AND SPECIFICATIONS FOR APPROVED STAKING METHOD/MATERIALS.
- ALL STRAPPING, AND TOP 1/2 OF WIRE BASKET AND BURLAP MUST BE CUT AWAY AND REMOVED FROM ROOT BALL WHEN PLANTING.
- FOR NEW PLANTING AREAS, REMOVE ALL PAVEMENT, GRAVEL SUB-BASE AND CONSTRUCTION DEBRIS, REMOVE COMPACTED SOIL AND ADD 24" NEW TOPSOIL, OR TILL AND AMEND THE TOP 24" OF EXISTING SOIL TO MEET TOPSOIL/PLANTING MIX STANDARDS FOR TREES.
- ALL SAUCERS SHALL BE SOAKED WITH WATER AND MULCHED IMMEDIATELY FOLLOWING PLANTING.
- THE TOP OF ALL ROOT BALLS FOR SHRUBS & GROUNDCOVERS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE, AS BORN TO PREVIOUS GROWING CONDITIONS.
- ALL ROOT BALLS REMOVED FROM CONTAINERS SHALL BE SCARIFIED PRIOR TO BACKFILLING.
- MULCH A MINIMUM 4 FOOT AREA AROUND EACH TREE AND - MULCH A CONTINUOUS AREA AROUND ALL SHRUB BEDS, AS INDICATED ON THE PLAN. MULCH SHALL BE 3-4" THICK. MULCH AROUND TREES SHALL BE TAPERED TOWARD TRUNK SO THAT NO MORE THAN 2" IS PLACED AT TREE TRUNK AS SHOWN ON DETAIL. SEE SPECIFICATIONS FOR TYPE.

UTILITY ISSUES

- LARGE MATURING TREES MAY NOT BE PLANTED WITHIN 25' OF OVERHEAD POWER DISTRIBUTION OR TRANSMISSION LINES. IF TREES CONFLICT WITH POWER LINES OR SIGNS, CALL LANDSCAPE ARCHITECT TO RESOLVE BEFORE PLANTING.
- CONTRACTOR IS RESPONSIBLE FOR HAVING ALL UNDERGROUND UTILITIES LOCATED AND CLEARLY PAINTED WITHIN 10 DAYS OF ANY GROUND DISTURBING ACTIVITY. OWNER WILL NOT PAY FOR UTILITY REPAIRS DUE TO FAILURE TO MARK AND OBSERVE UTILITY LOCATIONS.
- ADJUST TREE PLANTING LOCATIONS TO AVOID UNDERGROUND UTILITIES- PLANT 15' FROM ALL UNDERGROUND UTILITIES (SEWER AND STORM DRAINAGE, GAS WATER, PHONE AND ELECTRICAL LINES).

GENERAL

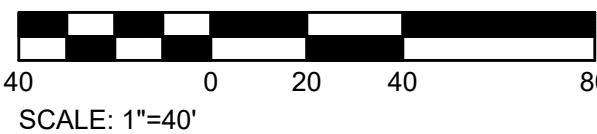
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE QUANTITY OF PLANTS SHOWN ON THE PLAN. ANY DISCREPANCIES BETWEEN QUANTITIES ON PLAN AND PLANT LIST SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT AND ANY FIELD ADJUSTMENTS OR QUANTITY ADJUSTMENTS MUST BE AUTHORIZED PRIOR TO PLANTING.
- ALL PLANTS SHALL BE GUARANTEED TO BE IN HEALTHY CONDITION FOR ONE (1) YEAR AFTER ACCEPTANCE BY OWNER OF ALL PLANT MATERIAL.
- ALL DISTURBED AREAS SHALL BE SEEDED AS SPECIFIED.
- SEE EROSION CONTROL/GRADING PLAN FOR ADDITIONAL TREE PRESERVATION NOTES.

LEGEND

	SIGN
	EXISTING LIGHT POLE
	EXISTING UTILITY POLE
	ACCESSIBLE SPACE
	EXISTING FIRE HYDRANT
	EXISTING TREE TO REMAIN
	PROPOSED GROUNDCOVER
	PLANT LABEL
	PLANT QUANTITY
	EXISTING CURB AND GUTTER
	PROPOSED CURB AND GUTTER
	PROPERTY LINE
	EXISTING FENCE
	PROPOSED FENCE
	EXISTING UNDERGROUND ELECTRIC LINE
	EXISTING OVERHEAD UTILITY LINE
	EXISTING TREE LINE
	PROPOSED TREE LINE AFTER CLEARING
	PROPOSED MULCH LINE
	PROPOSED STORM DRAINAGE PIPE
	PROPOSED FOUNDATION DRAIN
	SANITARY SEWER LINE
	WATER LINE



Know what's below.
Call before you dig.



Sandy Pines Park "Initial Phase"

2301 21st Avenue NE
Hickory, North Carolina

Project no: 1726.500006.00

Date: 07.17.26

Revisions:

Sheet Title:

LANDSCAPE PLAN

Sheet No:

C600

Seals:

7/23/2026
Corp. NC License: F-1320



Alfred Benesch & Company
2359 Perimeter Pointe
Lawrenceville, NC 28208
www.benesch.com
P 704.521.9880

GENERAL PLUMBING SPECIFICATIONS

CAST IRON SOIL, WASTE AND VENT PIPING: WASTE PIPING P.V.C. SHALL BE D.W.V. SCHEDULE 40 SOLID CORE PIPE GRADE WASTE PIPING 1/4 INCH PER FOOT (MIN) FOR PIPE SIZES 2-1/2" OR LESS. FOR PIPE SIZES 3" TO 6", GRADE 1/8 INCH PER FOOT (MIN), 8" OR LARGER PIPE, GRADE MIN 1/16 INCH PER FOOT. ALL VENT PIPING SHALL BE GRADED AS TO DRAIN BACK TO THE DRAINAGE PIPE BY GRAVITY. REFER TO TABLE 704.1 OF THE NC PLUMBING FOR MINIMUM SLOPE REQUIRED.

WATER PIPING: ALL WATER PIPING 3" AND SMALLER SHALL BE TYPE "K" (UNDER GROUND) OR TYPE "L" (ABOVE GROUND) COPPER TUBING WITH FORGED FITTINGS AND SWEAT CONNECTIONS. DIELECTRIC UNIONS, EPCO SALES, INC., SERIES FX SHALL BE INSTALLED BETWEEN COPPER PIPE AND WATER HEATER. ALL FITTINGS SHALL BE SWEAT TYPE WROUGHT COPPER WITH WALL THICKNESS EQUAL TO PIPE WALL THICKNESS. ALL JOINTS SHALL BE MADE WITH 95-5 SOLDER OR SILVABRITE 100. NO SOLDER W/LEAD SHALL BE PERMITTED.

ALL ROUGHING-IN PIPING SHALL BE RUN CONCEALED. ALL EXPOSED WATER LINES, STOPS, TRAP AND WASTE PIPE AT THE FIXTURES SHALL BE CHROME PLATED BRASS, WHICH FOR THE MOST PART WILL BE FURNISHED WITH THE FIXTURES. CHROME PLATED ESCUTCHEON RINGS SHALL BE USED AT EACH POINT OF ENTRANCE OF CHROME PIPING INTO WALLS, FLOORS, OR CEILINGS. EXPOSED WORK SHALL BE UNIFORM IN HEIGHT AND LOCATION FOR EACH TYPE FIXTURE.

WATER PIPING UNDER GROUND OUTSIDE OF BUILDING SHALL BE AT LEAST 36 INCHES BELOW THE FINISHED GRADE SURFACE.

CPVC AND PEX WATER PIPING IS ALSO ACCEPTED AS ALLOWED BY THE PLUMBING CODE.

THERMAL INSULATION: ALL HOT AND COLD WATER PIPING INSIDE BUILDING AND IN CRAWL SPACE, ALL HOT WATER PIPING BELOW GRADE, AND COLD WATER PIPING BELOW GRADE WITHIN 3'-0" OF OUTSIDE SHALL BE INSULATED WITH 1" THICK "ARMAFLEX" OR IMCOA WITH SEALED JOINTS OR PREMOLDED FIBERGLASS WITH VAPOR BARRIER JACKET.

SUBMITTAL: THE CONTRACTOR SHALL WITHIN (15) DAYS OF RECEIPT OF PROPERLY SIGNED CONTRACT SUBMIT TO THE ARCHITECT/ENGINEER FOR APPROVAL (5) COPIES OF A LIST OF SUPPLIES AND MANUFACTURER'S MATERIAL AND EQUIPMENT TO BE USED ON THIS PROJECT.

SUBSTITUTION OF MATERIALS AND/OR EQUIPMENT FOR THAT SPECIFIED WILL NOT BE ACCEPTED WITHOUT PRIOR WRITTEN APPROVAL BY THE ARCHITECT/ENGINEER PRIOR TO RECEIPT OF BIDS.

GENERAL: THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH THE 2018 N.C. STATE PLUMBING CODE. SUBMIT THREE (3) COPIES OF PLUMBING INSPECTION CERTIFICATES TO OWNER. PLUMBING CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS REQUIRED BY GOVERNING AUTHORITIES FOR WORK DONE UNDER THIS CONTRACT. PROVIDE AND INSTALL ALL SUPPORTS, BRACKETS, MATERIALS AND LABOR AS REQUIRED FOR A COMPLETE AND ACCEPTABLE PLUMBING SYSTEM. PLUMBING CONTRACTOR SHALL CLEAN ALL PLUMBING FIXTURES AFTER ALL CONSTRUCTION IS COMPLETE.

GUARANTEE: THE PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE BY OWNER STATING THE DAY THE GUARANTEE BEGINS AND ENDS.

WATER HAMMER CONTROL: ARRESTORS SHALL BE SIZED AND APPLIED IN ACCORDANCE WITH THE PLUMBING AND DRAINAGE INSTITUTE STANDARD PDI-WH-201. EQUIPMENT EQUAL TO JOSAM #75000 OR EQUAL BY AMTROL, WADE, SIOUX CHIEF OR SMITH IS ACCEPTABLE. PROVIDE "KARP" ACCESS COVER IN WALL TO SERVICE WATER HAMMER ARRESTORS.

FIXTURE SCHEDULE:

SEE DRAWINGS.

CLEANOUTS: <S>

CLEANOUTS SHALL BE AS FOLLOWS:

FLOOR CLEANOUTS - IN FINISHED AREAS - JOSAM #5500-1-SQ WITH SQARE NICKEL BRONZE TOP

- IN TILE FLOORS -JOSAM #5500-1-SQ
- IN CARPETED FLOORS -JOSAM #5#5500-1-SQ

WALL CLEANOUTS - JOSAM #58710 WITH STAINLESS STEEL COVERPLATE

CLEANOUTS IN EXPOSED PIPING - JOSAM #58900

EXTERIOR CLEANOUTS - JOAM # 56050 W/ROUND NICKEL BRONZE TOP

CLEANOUTS IN WATERPROOF FLOOR SHALL HAVE FLASHING FLANGE AND CLAMPING DEVICE.

CLEANOUTS IN CARPETED AREAS SHALL BE PROVIDED WITH CARPET MARKERS.

DOMESTIC WATER HEATERS: <S>

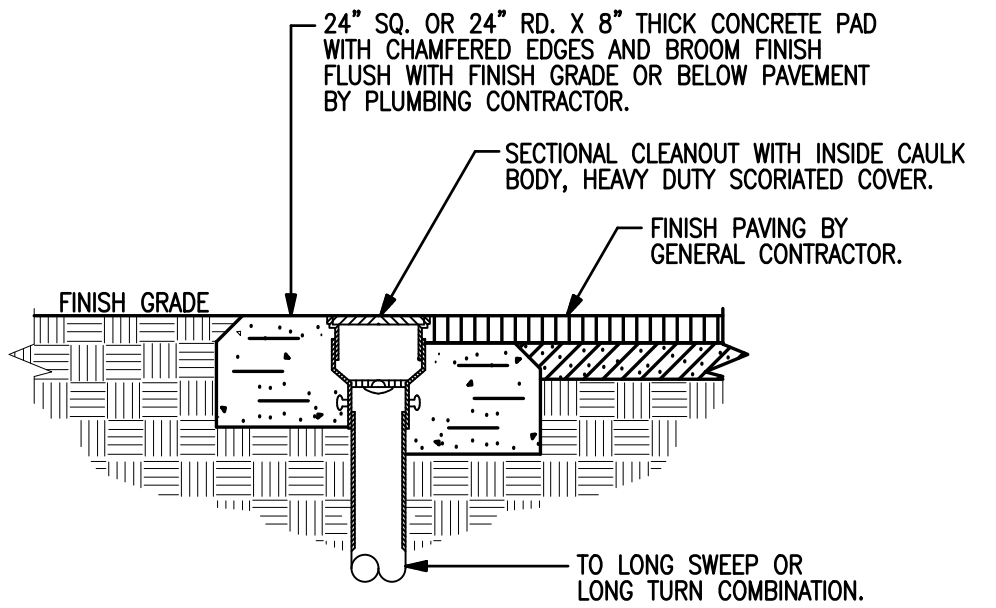
ELECTRIC WATER HEATERS SHALL BE UL LISTED AND COMPLETE WITH ALL STANDARD FEATURES, FIVE (5) YEAR TANK WARRANTY, GLASS-LINED TANK, FOAM INSULATION ON THE TANK, ANODE ROD, AUTOMATIC TEMPERATURE CONTROL, AND AUTOMATIC HIGH-LIMIT SAFETY CUTOFF.

EACH WATER HEATER SHALL BE PROVIDED WITH AN ASME AND NORTH CAROLINA APPROVED PRESSURE AND TEMPERATURE RELIEF VALVE. UNITS NOT INSTALLED WITH VACUUM BREAKER ON COLD WATER SUPPLY LINE SHALL BE PROVIDED WITH AGA CERTIFIED VACUUM RELIEF VALVE PER ANSI Z21.22. A GATE VALVE SHALL BE INSTALLED ON SAME FLOOR AS UNIT AND NO FURTHER THAN 3 FEET ON THE COLD WATER SUPPLY.

EACH WATER HEATER AND ITS INSTALLATION SHALL COMPLY WITH THE LATEST ISSUE AND ALL ADDENDA THERETO OF THE N. C. STATE BOILER INSPECTION LAWS AND REGULATIONS. ALL WIRING AND CONTROLS ASSOCIATED WITH THE HEATERS SHALL BE U.L. APPROVED AND IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.

EACH HEATER TANK SHALL BE FITTED WITH NORTH CAROLINA APPROVED "DIP" TUBE AND LABELED TO SHOW APPROVAL FOR INSTALLATION IN THE STATE OF NORTH CAROLINA.

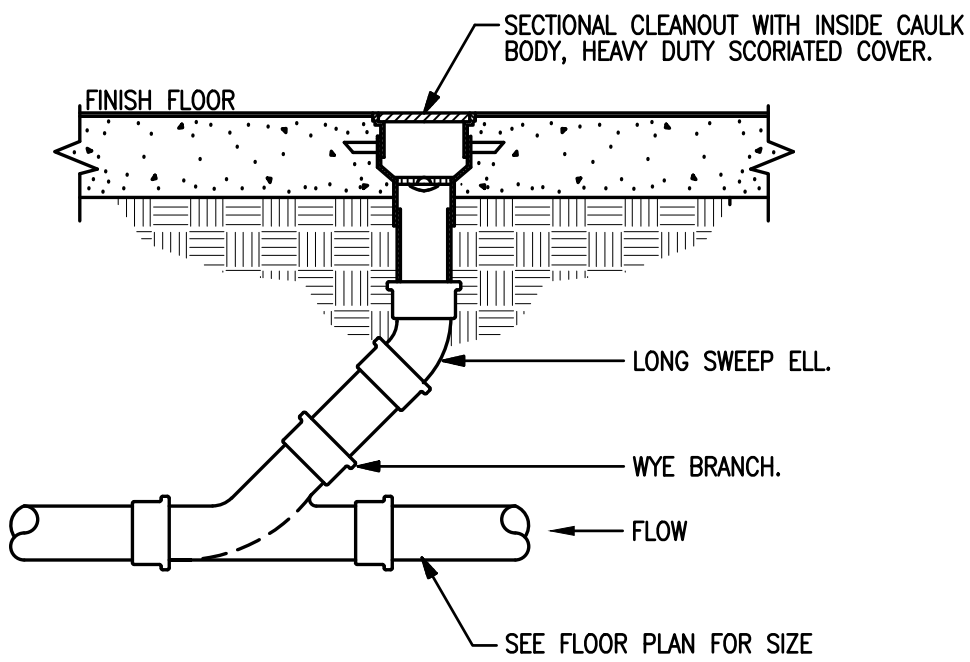
DISCHARGE RELIEF VALVE FROM EACH WATER HEATER SHALL BE PIPED FULL SIZE TO WITHIN FOUR (4) INCHES OF THE FLOOR OVER A FLOOR DRAIN, DRIP PAN OR OTHER SAFE LOCATION. DISCHARGE PIPE SHALL BE SUPPORTED AND ANCHORED SO THAT IT WILL NOT PUT UNDUE STRAIN ON THE RELIEF VALVE BODY OR MOUNTING COUPLING.



NOTE:
OMIT CONCRETE PAD IF C.O. IS SET IN CONC. SURFACE PROVIDED BY GENERAL CONTRACTOR.

A CLEANOUT AT FINISH GRADE

SCALE: NONE

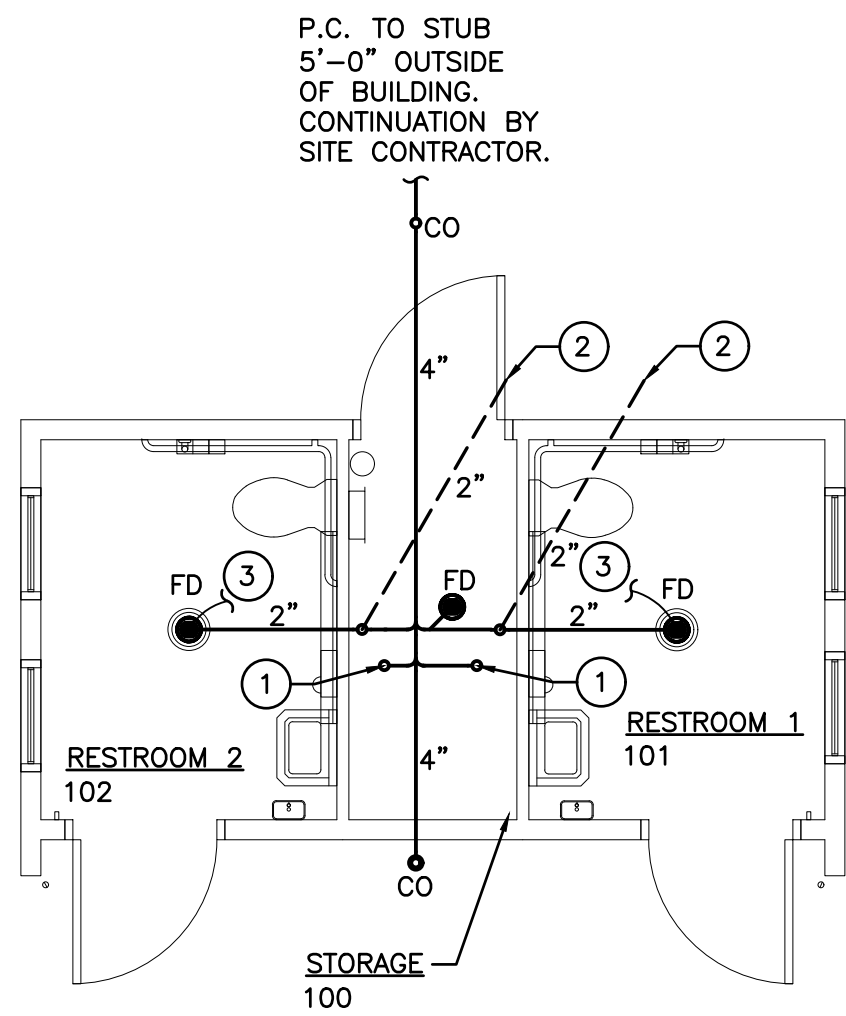


B CLEANOUT AT FINISH FLOOR

SCALE: NONE

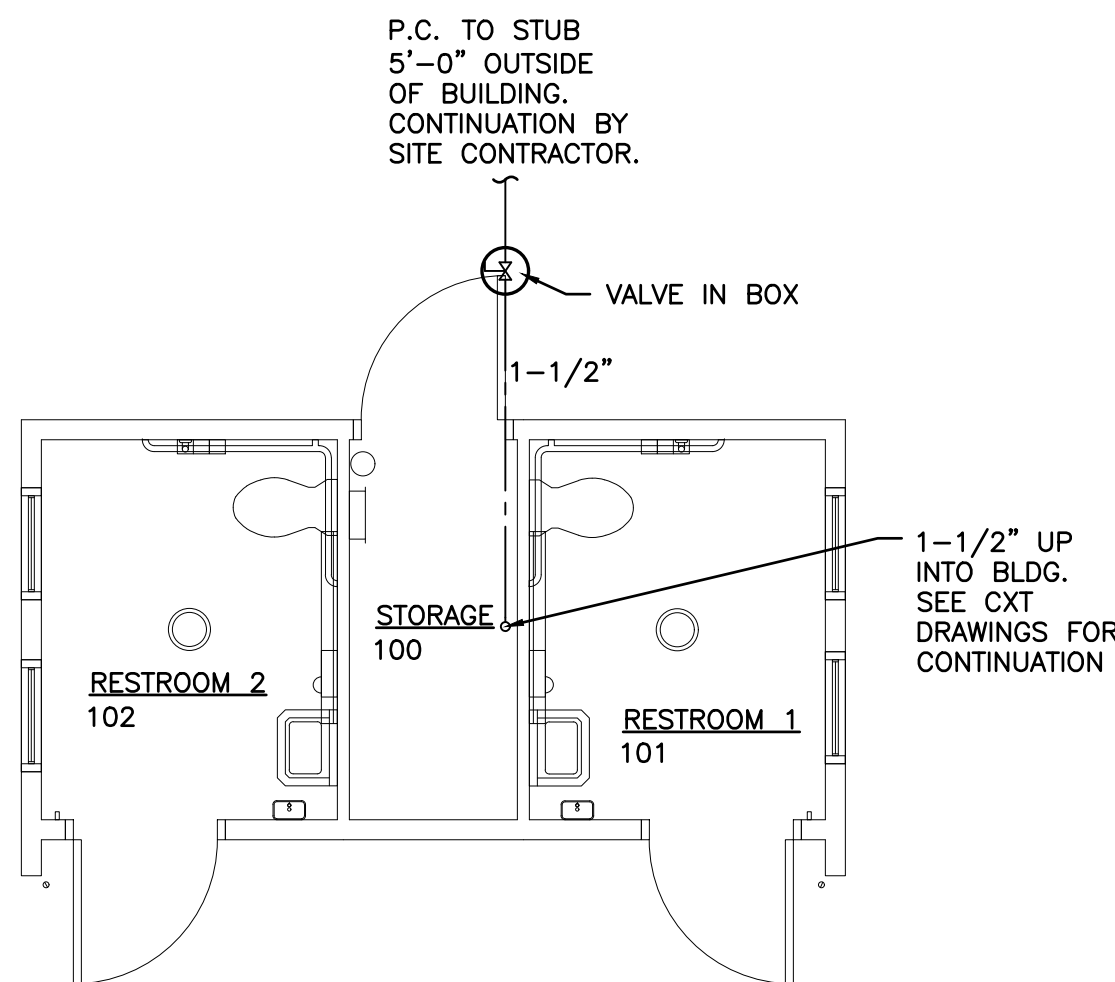
NOTES:

- 1 3" WASTE UP THROUGH FLOOR. SEE CXT DRAWINGS FOR ABOVE FLOOR WASTE PIPING.
- 2 2" VENT PIPING FOR FLOOR DRAINS. TIE INTO VENT PIPING BY CXT. SEE CXT DRAWINGS.
- 3 WATER CONNECTION FROM TRAP PRIMER TO FLOOR DRAINS. VERIFY LOCATION FOR TRAP PRIMER BY CXT.



FLOOR PLAN - WASTE

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



FLOOR PLAN - WATER

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

PLUMBING FIXTURE SCHEDULE

NOTE: ALL FIXTURE APPURTENANCES SHALL BE SUPPLIED BY FIXTURE MANUFACTURER.

FIXTURE SYMBOL	FIXTURE TYPE	FIXTURE DESCRIPTION	CONNECTION SIZES			
			W	V	CW	HW
FD	FLOOR DRAIN	FLOOR DRAIN PROVIDED BY CXT. SEE CXT DRAWINGS.	2"	2"	1/2"	
TP	TRAP PRIMER	TRAP PRIMER VALVE WITH SPLITTER PROVIDED BY CXT. SEE CXT DRAWINGS.			1/2"	

ACCEPTABLE MANUFACTURERS:

WATER CLOSETS, URINALS, LAVATORIES - SLOAN, KOHLER, AMERICAN STANDARD, TOTO, ZURN, GERBER,

CARRIERS - WADE, SMITH, ZURN, MIFAB.

SINKS - KOHLER, AMERICAN STANDARD, JUST, ELKAY, AMERICAN STANDARD, ZURN, CECO, SLOAN.

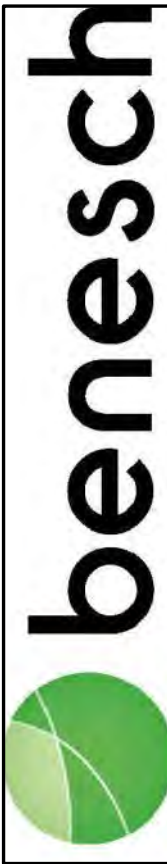
FLOOR DRAINS, ROOF DRAINS, FLOOR SINKS - WADE, SMITH, ZURN, JOSAM, SIOUX CHIEF, WATTS DRAINAGE, MIFAB.

FLUSH VALVES - SLOAN, ZURN, HYDROTEK, TOTO.

RECIRCULATION PUMP - BELL & GOSSETT, TACO, GRUNDFOS

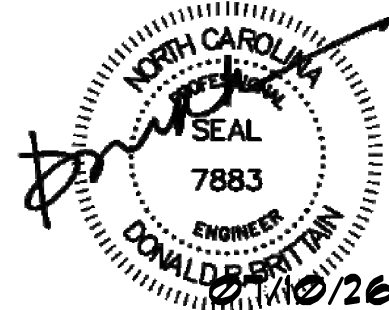
FAUCETS - DELTA, SLOAN, SYMMONS, T&S, AMERICAN STANDARD, MOEN, CHICAGO FAUCETS, ZURN.

MIXING VALVES - SYMMONS, LAWLER, WATTS, BRADLEY, POWERS.



Alfred Benesch & Company
2359 Perimeter Parkway, Suite 350
Hickory, NC 28603
www.benesch.com
P 704.521.9880

Seals:



Sandy Pines Park "Initial Phase"

2301 21st Avenue NE
Hickory, North Carolina

Project no: 1726.500006.00

Date: 07.10.26

Revisions:

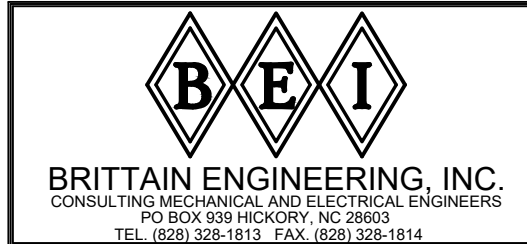
Sheet Title:

RESTROOM
FLOOR PLAN
PLUMBING,
SPECIFICATIONS,
SCHEDULE

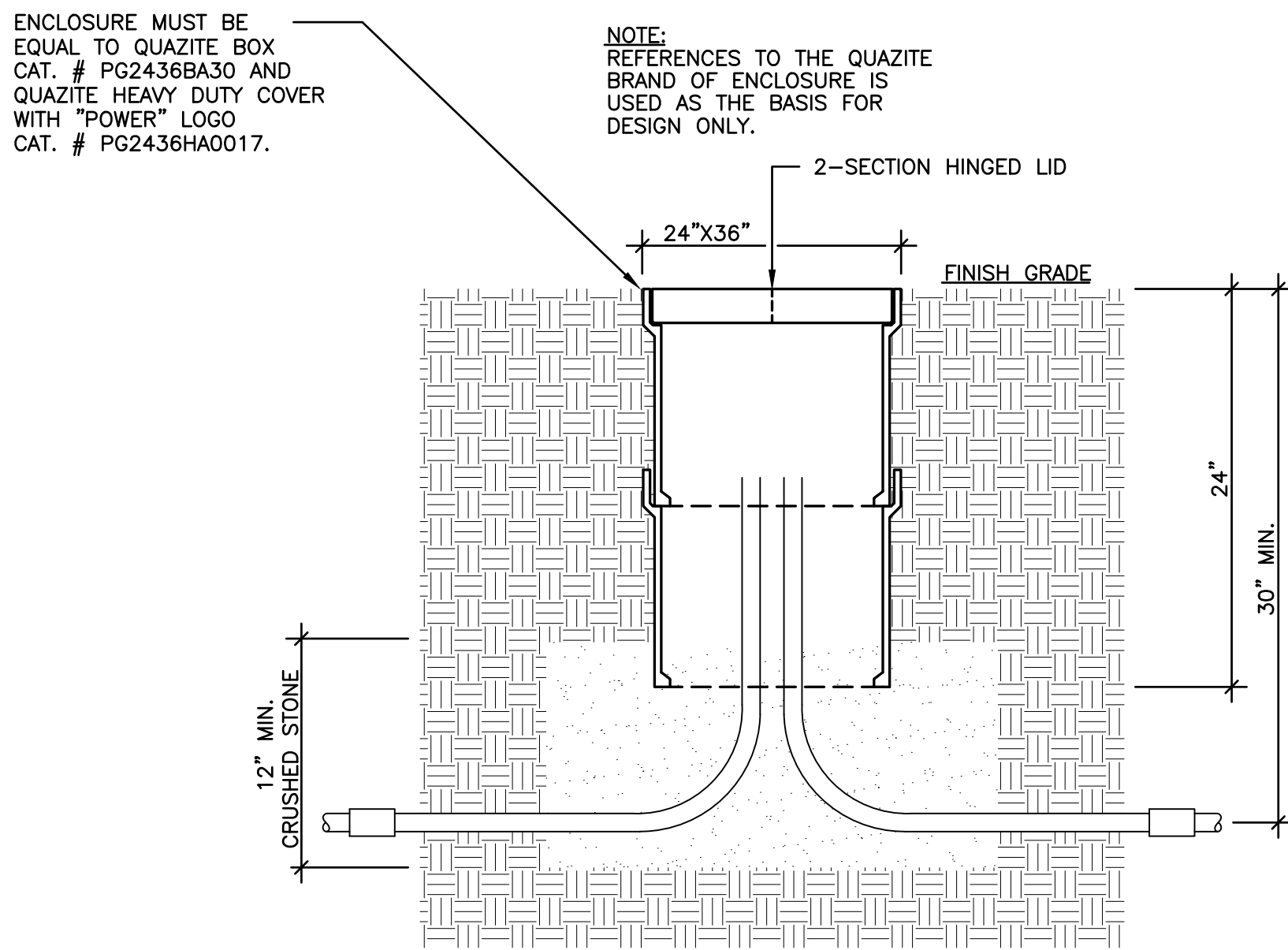
Sheet No:

P1

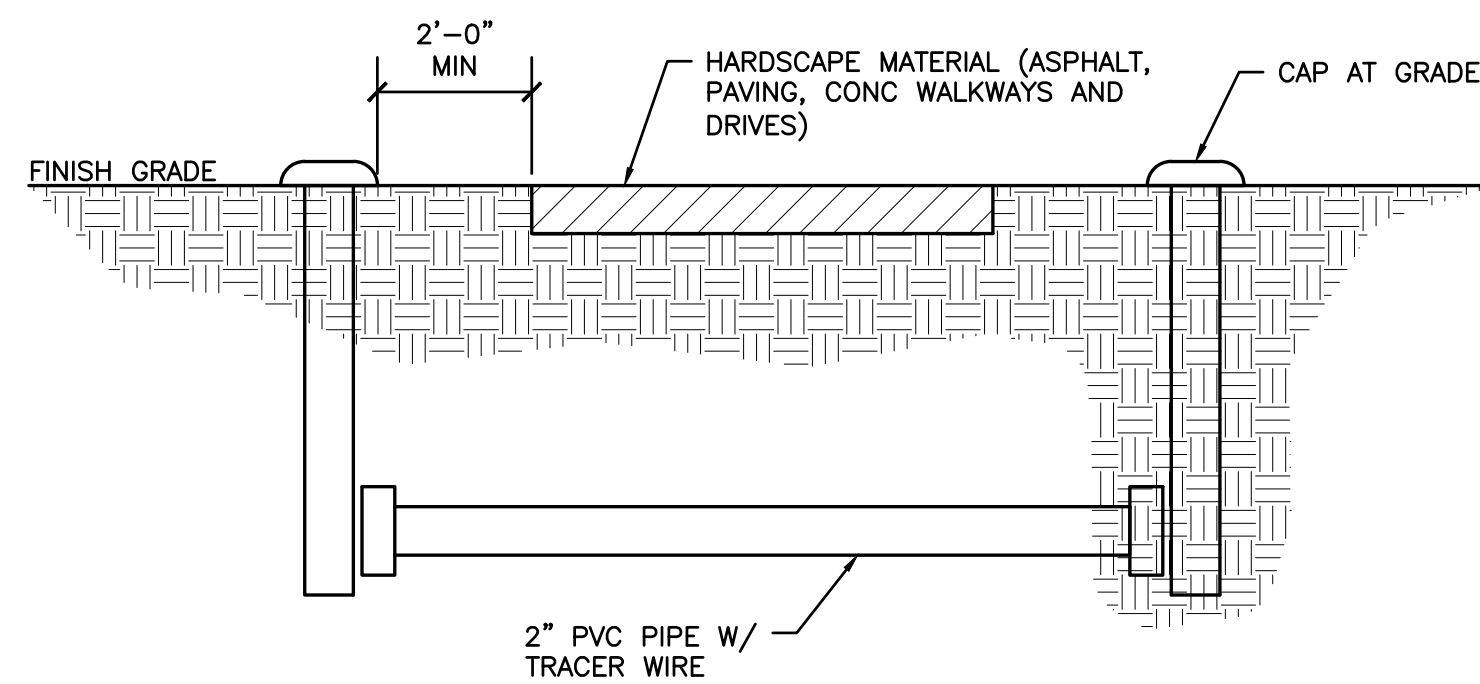
070826EHC221450



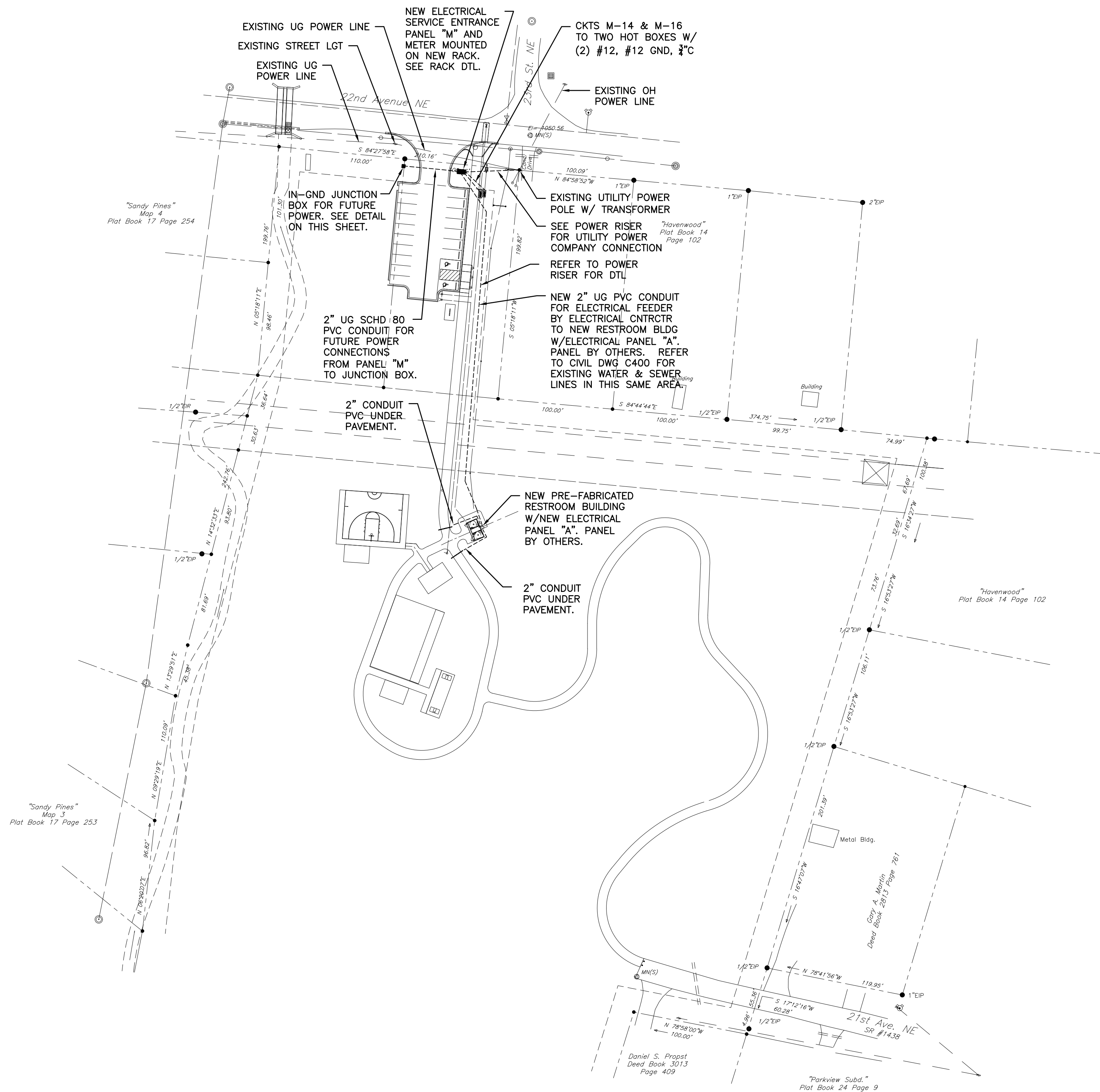
BRITTAIN ENGINEERING, INC.
CONSULTING MECHANICAL AND ELECTRICAL ENGINEERS
PO BOX 939 HICKORY, NC 28603
TEL: (800) 326-1515 FAX: (800) 326-1514



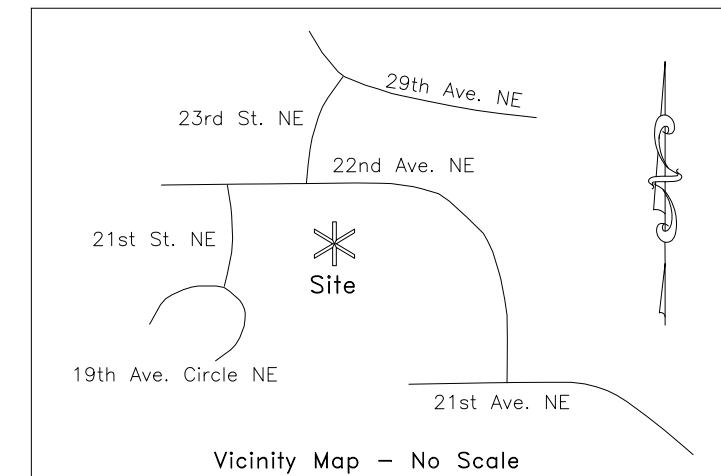
HANDHOLE ENCLOSURE DETAIL
NTS



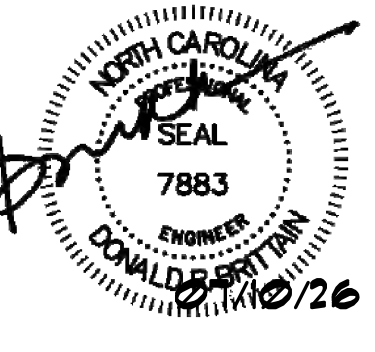
PVC SLEEVE DETAIL
NTS



SITE PLAN - ELECTRICAL
SCALE: 1" = 60'-0"



Seals:



Sandy Pines Park "Initial Phase"

2301 21st Avenue NE
Hickory, North Carolina

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Revisions:

Sheet Title:
SITE PLAN
ELECTRICAL

Sheet No:
E2