

INDEX OF PLANS  
 CONTRACT NO. 2 – RURAL URGENT CARE ERWIN

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PARCEL ID NUMBER: 1507-33-0265.000

LEGAL DESCRIPTION

BEING ALL OF LOT 1, CONTAINING 58,348 SQUARE FEET, AS PER PLAT AND SURVEY THEREOF ENTITLED, "SURVEY OF RIVERSIDE PROFESSIONAL PARK," DATED JANUARY 30, 2004 (REVISED AUGUST 23, 2005, APRIL 25, 2006, AND MARCH 16, 2007), PREPARED BY MAULDIN-WATKINS SURVEYING, P.A., AND RECORDED IN MAP #2005-715, AND RE-RECORDED IN MAP #2006-349, AND IN MAP #2007-262, HARNETT COUNTY REGISTRY, TO WHICH REFERENCE IS HEREBY MADE FOR A MORE COMPLETE DESCRIPTION.

BEING A PORTION OF THAT CERTAIN LAND CONVEYED TO BPRV, LLC, A NORTH CAROLINA LIMITED LIABILITY COMPANY, BY VESTING INSTRUMENT RECORDED IN BOOK 1869 PAGE 817, HARNETT COUNTY REGISTRY, NORTH CAROLINA.

METES AND BOUNDS DESCRIPTION  
 HARNETT COUNTY, NORTH CAROLINA; RURAL URGENT CARE 22

BEING A PARCEL OF LAND LYING IN DUKE TOWNSHIP, HARNETT COUNTY NORTH CAROLINA AND BEING BOUNDED ON THE NORTH BY THE SOUTHERN RIGHT OF WAY LINE OF US HIGHWAY 421, ON THE EAST BY THE LANDS OF SHRJI PROPERTIES, LLC, ON THE SOUTH BY THE LANDS OF NICKSAM, LLC AND ON THE WEST BY THE EASTERN RIGHT OF WAY LINE OF PROFESSIONAL PARK AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT NGS STATION "PLACE", A CONCRETE MONUMENT HAVING COORDINATES OF N= 573506.74 FEET E = 2103699.91 FEET, NORTH AMERICAN DATUM 1983(2001), THENCE S 51°58'38"E, 78.11 FEET TO AN EXISTING CONCRETE MONUMENT IN THE SOUTHERN RIGHT OF WAY LINE OF US HWY 421, THE POINT OF BEGINNING; THENCE LEAVING SAID RIGHT OF WAY S 51°46'04"W 312.25 FEET TO AN EXISTING 3/4" IRON PIPE; THENCE N 38°13'34"W 228.70 FEET TO A 3/4" IRON PIPE IN THE EASTERN RIGHT OF WAY LINE OF PROFESSIONAL PARK; THENCE ALONG SAID RIGHT OF WAY N 29°32'38"E 106.58 FEET TO A NEW IRON PIPE; THENCE ALONG A CURVE TO THE RIGHT HAVING A CHORD OF N 59°32'38"W 40.00 FEET AND A RADIUS OF 40.00 FEET TO A NEW IRON PIPE IN THE SOUTHERN RIGHT OF WAY LINE OF US HWY 421; THENCE ALONG SAID RIGHT OF WAY LINE ALONG A CURVE TO THE RIGHT HAVING A CHORD OF S 80°35'00"E 13.73 FEET AND A RADIUS OF 40.00 FEET TO A NEW IRON PIPE; THENCE CONTINUING ALONG SAID RIGHT OF WAY ALONG A NON-TANGENT CURVE TO THE RIGHT HAVING A CHORD OF S 71°07'01"E 174.21 FEET AND A RADIUS OF 11459.16 FEET TO A NEW IRON PIPE; THENCE ALONG SAID RIGHT OF WAY S 71°32'46"E 41.02 FEET TO AN EXISTING 3/4" IRON ROD; THENCE S 71°21'55"E 87.03 FEET TO THE POINT OF BEGINNING CONTAINING 1.34± ACRES.

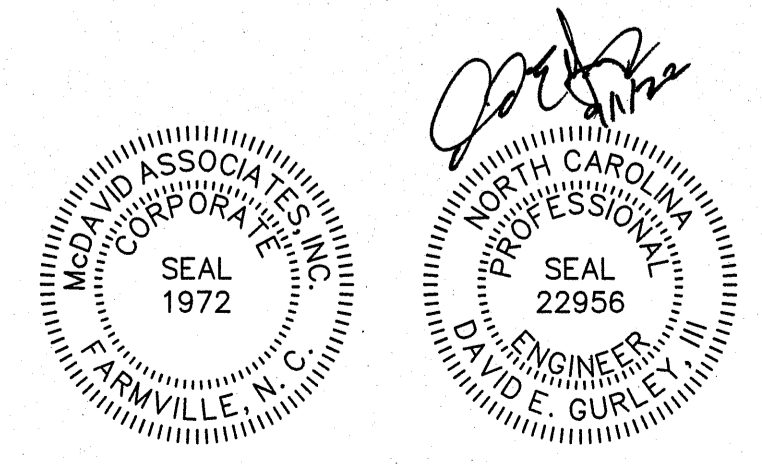
# RURAL URGENT CARE, LLC

## CONTRACT NO. 2 - RURAL URGENT CARE ERWIN

### 2022 SITE IMPROVEMENTS

HARNETT COUNTY, NORTH CAROLINA  
 JUNE 10, 2022

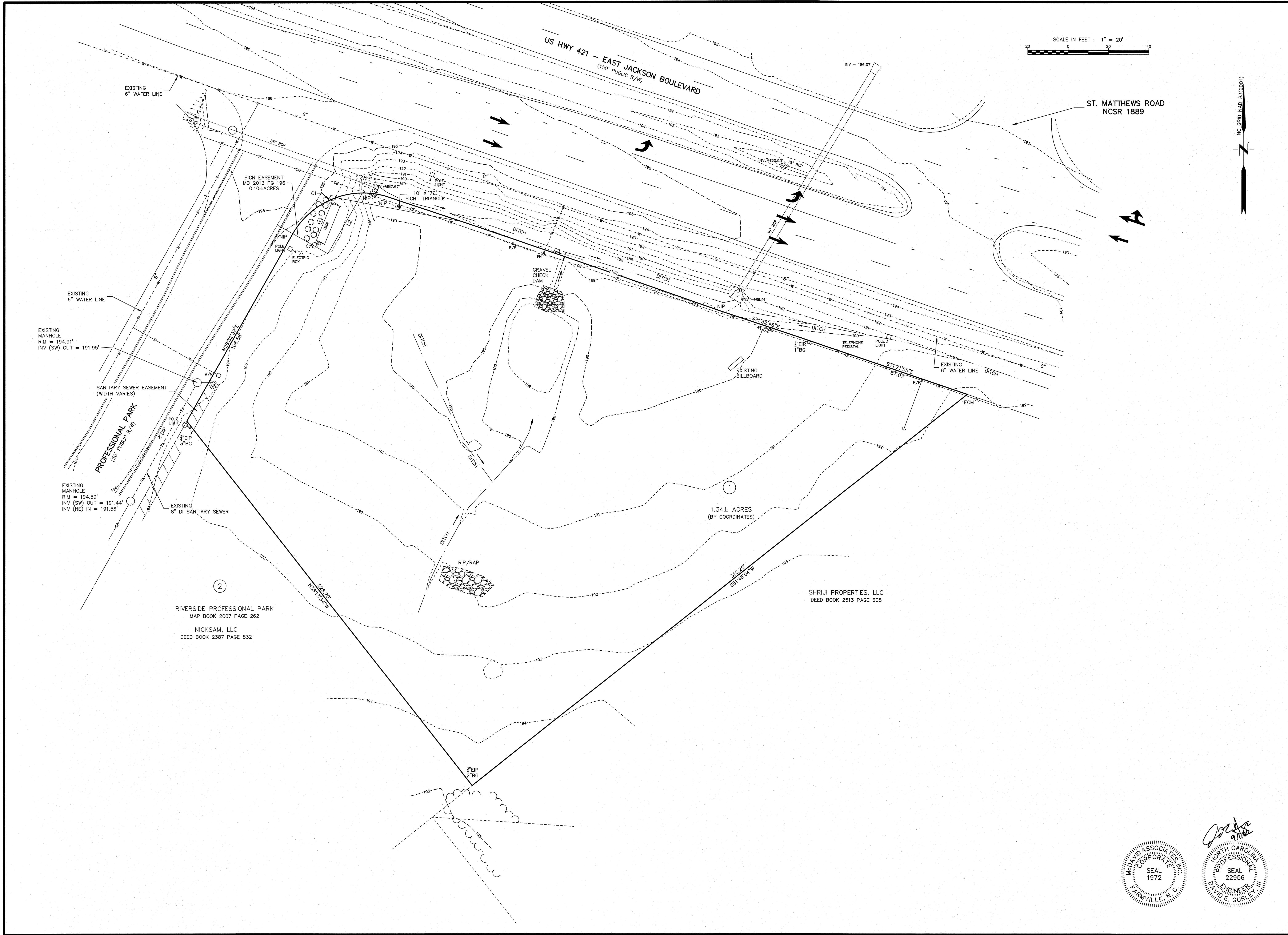
SITE ADDRESS  
 25 PROFESSIONAL PARK  
 ERWIN, NC 28339



<p><b>McDAVID ASSOCIATES, INC.</b>          Corporate License No. C-131          BRANCH OFFICE          Engineers &amp; Planners          109 East Walnut Street          O. Box 77653          Raleigh, NC 27677          Telephone: (919) 756-7930          Facsimile: (919) 756-7951</p>	
<p>CAD FILE DIRECTORY: \\G-6105\DR47\2022-6024-3402.DWG          CAD DWG FILE NAME: 2022-6024-3402-CN2-COVER.DWG          CAD PLOT FILE NAME: 2022-6024-3402-CN2-COVER-1.PDF          MAP FILE REFERENCE:          PROJECT NO.: 2-22-6024-3402          SURVEYED BY:          DRAWING NO.: 1          COMPUTED BY:          SCALE: AS NOTED          DRAWN BY:          DATE: JUNE 10, 2022          APPROVED BY:</p>	<p>COVER SHEET          CONTRACT NO. 2 - RURAL URGENT CARE ERWIN          2022 SITE IMPROVEMENTS          RURAL URGENT CARE, LLC          NORTH CAROLINA          HARNETT COUNTY</p>
<p>SHEET 1 OF 8</p>	

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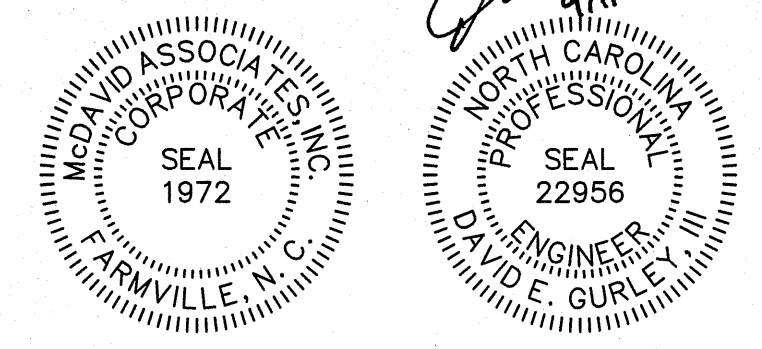
NO.	DATE	DESCRIPTION	REVISIONS

**McDAVID ASSOCIATES, INC.**  
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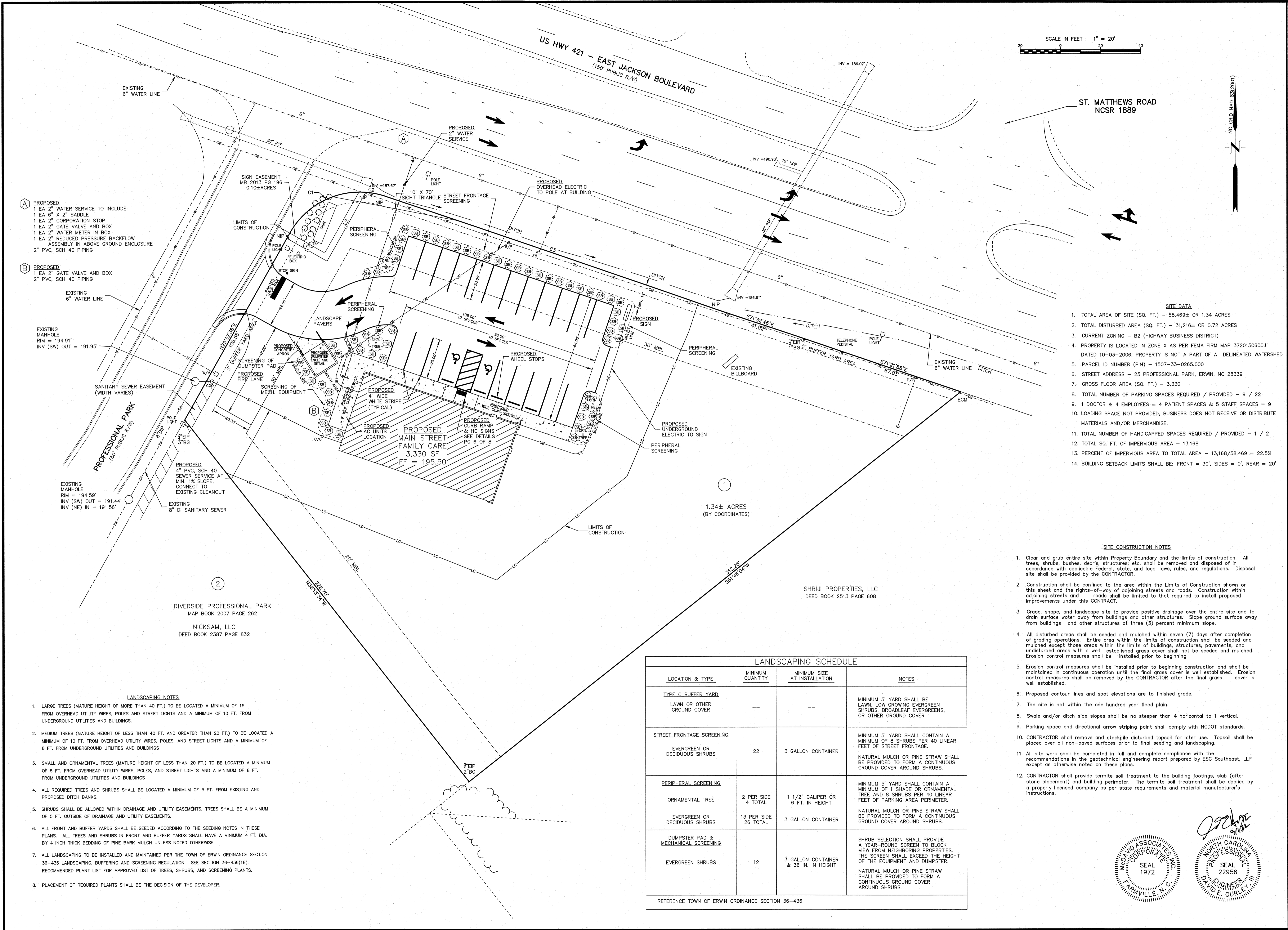
**INC**  
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 3714 Norm Main Street  
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MAP FILE REFERENCE: ---
PROJECT NO.: 2-22-6024-3402
SURVEYED BY: ---
COMPUTED BY: ---
DRAWING NO.: 2
SCALE: 1" = 20'
DATE: JUNE 10, 2022
APPROVED BY: ---

EXISTING SITE PLAN  
 CONTRACT NO. 2 - RURAL URGENT CARE ERWIN  
 2022 SITE IMPROVEMENTS  
 RURAL URGENT CARE, LLC  
 NORTH CAROLINA  
 HARNETT COUNTY



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SCALE IN FEET : 1" = 20'

NC GRID MAP 83(2001)

- PROPOSED**
- 1 EA 2" WATER SERVICE TO INCLUDE:
  - 1 EA 6" X 2" SADDLE
  - 1 EA 2" CORPORATION STOP
  - 1 EA 2" GATE VALVE AND BOX
  - 1 EA 2" WATER METER IN BOX
  - 1 EA 2" REDUCED PRESSURE BACKFLOW ASSEMBLY IN ABOVE GROUND ENCLOSURE
  - 2" PVC, SCH 40 PIPING
- PROPOSED**
- 1 EA 2" GATE VALVE AND BOX
  - 2" PVC, SCH 40 PIPING

- SITE DATA**
1. TOTAL AREA OF SITE (SQ. FT.) - 58,469± OR 1.34 ACRES
  2. TOTAL DISTURBED AREA (SQ. FT.) - 31,216± OR 0.72 ACRES
  3. CURRENT ZONING - B2 (HIGHWAY BUSINESS DISTRICT)
  4. PROPERTY IS LOCATED IN ZONE X AS PER FEMA FIRM MAP 3720150600J DATED 10-03-2006, PROPERTY IS NOT A PART OF A DELINEATED WATERSHED
  5. PARCEL ID NUMBER (PIN) - 1507-33-0265.000
  6. STREET ADDRESS - 25 PROFESSIONAL PARK, ERWIN, NC 28339
  7. GROSS FLOOR AREA (SQ. FT.) - 3,330
  8. TOTAL NUMBER OF PARKING SPACES REQUIRED / PROVIDED - 9 / 22
  9. 1 DOCTOR & 4 EMPLOYEES = 4 PATIENT SPACES & 5 STAFF SPACES = 9
  10. LOADING SPACE NOT PROVIDED, BUSINESS DOES NOT RECEIVE OR DISTRIBUTE MATERIALS AND/OR MERCHANDISE.
  11. TOTAL NUMBER OF HANDICAPPED SPACES REQUIRED / PROVIDED - 1 / 2
  12. TOTAL SQ. FT. OF IMPERVIOUS AREA - 13,168
  13. PERCENT OF IMPERVIOUS AREA TO TOTAL AREA - 13,168/58,469 = 22.5%
  14. BUILDING SETBACK LIMITS SHALL BE: FRONT = 30', SIDES = 0', REAR = 20'

- SITE CONSTRUCTION NOTES**
1. Clear and grub entire site within Property Boundary and the limits of construction. All trees, shrubs, bushes, debris, structures, etc. shall be removed and disposed of in accordance with applicable Federal, state, and local laws, rules, and regulations. Disposal site shall be provided by the CONTRACTOR.
  2. Construction shall be confined to the area within the Limits of Construction shown on this sheet and the rights-of-way of adjoining streets and roads. Construction within adjoining streets and roads shall be limited to that required to install proposed improvements under this CONTRACT.
  3. Grade, shape, and landscape site to provide positive drainage over the entire site and to drain surface water away from buildings and other structures. Slope ground surface away from buildings and other structures at three (3) percent minimum slope.
  4. All disturbed areas shall be seeded and mulched within seven (7) days after completion of grading operations. Entire area within the limits of construction shall be seeded and mulched except those areas within the limits of buildings, structures, pavements, and undisturbed areas with a well established grass cover shall not be seeded and mulched. Erosion control measures shall be installed prior to beginning.
  5. Erosion control measures shall be installed prior to beginning construction and shall be maintained in continuous operation until the final grass cover is well established. Erosion control measures shall be removed by the CONTRACTOR after the final grass cover is well established.
  6. Proposed contour lines and spot elevations are to finished grade.
  7. The site is not within the one hundred year flood plain.
  8. Swale and/or ditch side slopes shall be no steeper than 4 horizontal to 1 vertical.
  9. Parking space and directional arrow striping paint shall comply with NCDOT standards.
  10. CONTRACTOR shall remove and stockpile disturbed topsoil for later use. Topsoil shall be placed over all non-paved surfaces prior to final seeding and landscaping.
  11. All site work shall be completed in full and complete compliance with the recommendations in the geotechnical engineering report prepared by ESC Southeast, LLP except as otherwise noted on these plans.
  12. CONTRACTOR shall provide termite soil treatment to the building footings, slab (after stone placement) and building perimeter. The termite soil treatment shall be applied by a properly licensed company as per state requirements and material manufacturer's instructions.

- LANDSCAPING NOTES**
1. LARGE TREES (MATURE HEIGHT OF MORE THAN 40 FT.) TO BE LOCATED A MINIMUM OF 15 FEET FROM OVERHEAD UTILITY WIRES, POLES AND STREET LIGHTS AND A MINIMUM OF 10 FT. FROM UNDERGROUND UTILITIES AND BUILDINGS.
  2. MEDIUM TREES (MATURE HEIGHT OF LESS THAN 40 FT. AND GREATER THAN 20 FT.) TO BE LOCATED A MINIMUM OF 10 FT. FROM OVERHEAD UTILITY WIRES, POLES, AND STREET LIGHTS AND A MINIMUM OF 8 FT. FROM UNDERGROUND UTILITIES AND BUILDINGS.
  3. SMALL AND ORNAMENTAL TREES (MATURE HEIGHT OF LESS THAN 20 FT.) TO BE LOCATED A MINIMUM OF 5 FT. FROM OVERHEAD UTILITY WIRES, POLES, AND STREET LIGHTS AND A MINIMUM OF 8 FT. FROM UNDERGROUND UTILITIES AND BUILDINGS.
  4. ALL REQUIRED TREES AND SHRUBS SHALL BE LOCATED A MINIMUM OF 5 FT. FROM EXISTING AND PROPOSED DITCH BANKS.
  5. SHRUBS SHALL BE ALLOWED WITHIN DRAINAGE AND UTILITY EASEMENTS. TREES SHALL BE A MINIMUM OF 5 FT. OUTSIDE OF DRAINAGE AND UTILITY EASEMENTS.
  6. ALL FRONT AND BUFFER YARDS SHALL BE SEEDED ACCORDING TO THE SEEDING NOTES IN THESE PLANS. ALL TREES AND SHRUBS IN FRONT AND BUFFER YARDS SHALL HAVE A MINIMUM 4 FT. DIA. BY 4 INCH THICK BEDDING OF PINE BARK MULCH UNLESS NOTED OTHERWISE.
  7. ALL LANDSCAPING TO BE INSTALLED AND MAINTAINED PER THE TOWN OF ERWIN ORDINANCE SECTION 36-436 LANDSCAPING, BUFFERING AND SCREENING REGULATION. SEE SECTION 36-436(18): RECOMMENDED PLANT LIST FOR APPROVED LIST OF TREES, SHRUBS, AND SCREENING PLANTS.
  8. PLACEMENT OF REQUIRED PLANTS SHALL BE THE DECISION OF THE DEVELOPER.

LANDSCAPING SCHEDULE			
LOCATION & TYPE	MINIMUM QUANTITY	MINIMUM SIZE AT INSTALLATION	NOTES
TYPE C BUFFER YARD LAWN OR OTHER GROUND COVER	--	--	MINIMUM 5' YARD SHALL BE LAWN, LOW GROWING EVERGREEN SHRUBS, BROADLEAF EVERGREENS, OR OTHER GROUND COVER.
STREET FRONTAGE SCREENING EVERGREEN OR DECIDUOUS SHRUBS	22	3 GALLON CONTAINER	MINIMUM 5' YARD SHALL CONTAIN A MINIMUM OF 8 SHRUBS PER 40 LINEAR FEET OF STREET FRONTAGE. NATURAL MULCH OR PINE STRAW SHALL BE PROVIDED TO FORM A CONTINUOUS GROUND COVER AROUND SHRUBS.
PERIPHERAL SCREENING ORNAMENTAL TREE	2 PER SIDE 4 TOTAL	1 1/2" CALIPER OR 6 FT. IN HEIGHT	MINIMUM 5' YARD SHALL CONTAIN A MINIMUM OF 1 SHADE OR ORNAMENTAL TREE AND 8 SHRUBS PER 40 LINEAR FEET OF PARKING AREA PERIMETER.
PERIPHERAL SCREENING EVERGREEN OR DECIDUOUS SHRUBS	13 PER SIDE 26 TOTAL	3 GALLON CONTAINER	NATURAL MULCH OR PINE STRAW SHALL BE PROVIDED TO FORM A CONTINUOUS GROUND COVER AROUND SHRUBS.
DUMPSTER PAD & MECHANICAL SCREENING EVERGREEN SHRUBS	12	3 GALLON CONTAINER & 36 IN. IN HEIGHT	SHRUB SELECTION SHALL PROVIDE A YEAR-ROUND SCREEN TO BLOCK VIEW FROM NEIGHBORING PROPERTIES. THE SCREEN SHALL EXCEED THE HEIGHT OF THE EQUIPMENT AND DUMPSTER. NATURAL MULCH OR PINE STRAW SHALL BE PROVIDED TO FORM A CONTINUOUS GROUND COVER AROUND SHRUBS.

REFERENCE TOWN OF ERWIN ORDINANCE SECTION 36-436

**REVISIONS**

NO.	DATE	DESCRIPTION
1	8/10/2022	Added Fire Lane per Fire Marshal

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**MAI REVIEW OFFICER APPROVAL**

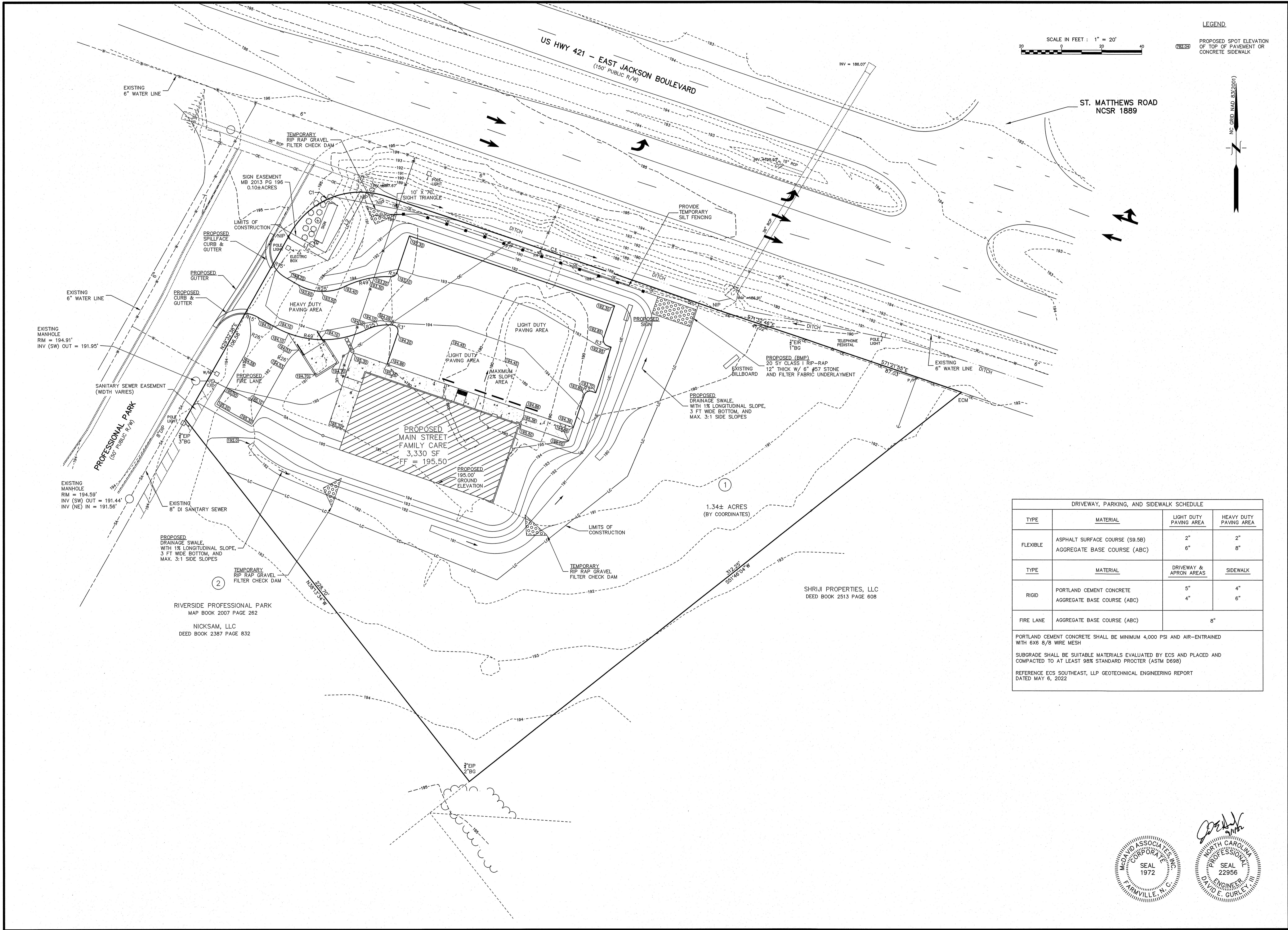
**PROPOSED SITE PLAN**  
 CONTRACT NO. 2 - RURAL URGENT CARE ERWIN  
 2022 SITE IMPROVEMENTS  
 RURAL URGENT CARE, LLC  
 NORTH CAROLINA  
 HARNETT COUNTY

**SEAL 1972**  
 McDAVID ASSOCIATES, INC.  
 ENGINEER  
 D. VITO E. GURLEY

**SEAL 22956**  
 NORTH CAROLINA  
 PROFESSIONAL  
 ENGINEER  
 D. VITO E. GURLEY

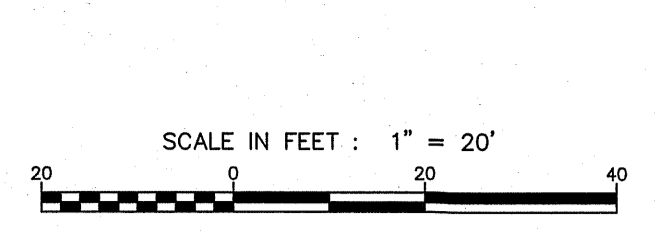
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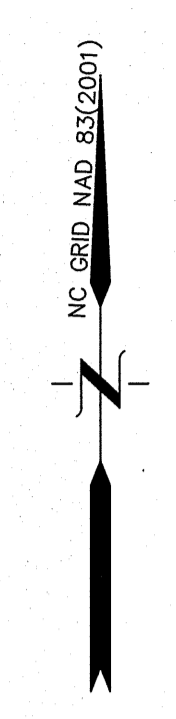


DRIVEWAY, PARKING, AND SIDEWALK SCHEDULE			
TYPE	MATERIAL	LIGHT DUTY PAVING AREA	HEAVY DUTY PAVING AREA
FLEXIBLE	ASPHALT SURFACE COURSE (S9.5B)	2"	2"
	AGGREGATE BASE COURSE (ABC)	6"	8"
TYPE	MATERIAL	DRIVEWAY & APRON AREAS	SIDEWALK
RIGID	PORTLAND CEMENT CONCRETE	5"	4"
	AGGREGATE BASE COURSE (ABC)	4"	6"
FIRE LANE	AGGREGATE BASE COURSE (ABC)		8"

PORTLAND CEMENT CONCRETE SHALL BE MINIMUM 4,000 PSI AND AIR-ENTRAINED WITH 6X8 8/8 WIRE MESH  
 SUBGRADE SHALL BE SUITABLE MATERIALS EVALUATED BY ECS AND PLACED AND COMPACTED TO AT LEAST 98% STANDARD PROCTER (ASTM D698)  
 REFERENCE ECS SOUTHEAST, LLP GEOTECHNICAL ENGINEERING REPORT DATED MAY 6, 2022



**LEGEND**  
 PROPOSED SPOT ELEVATION OF TOP OF PAVEMENT OR CONCRETE SIDEWALK

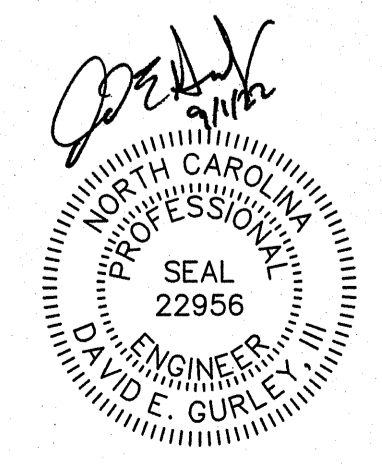
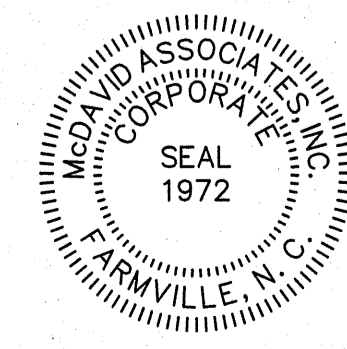


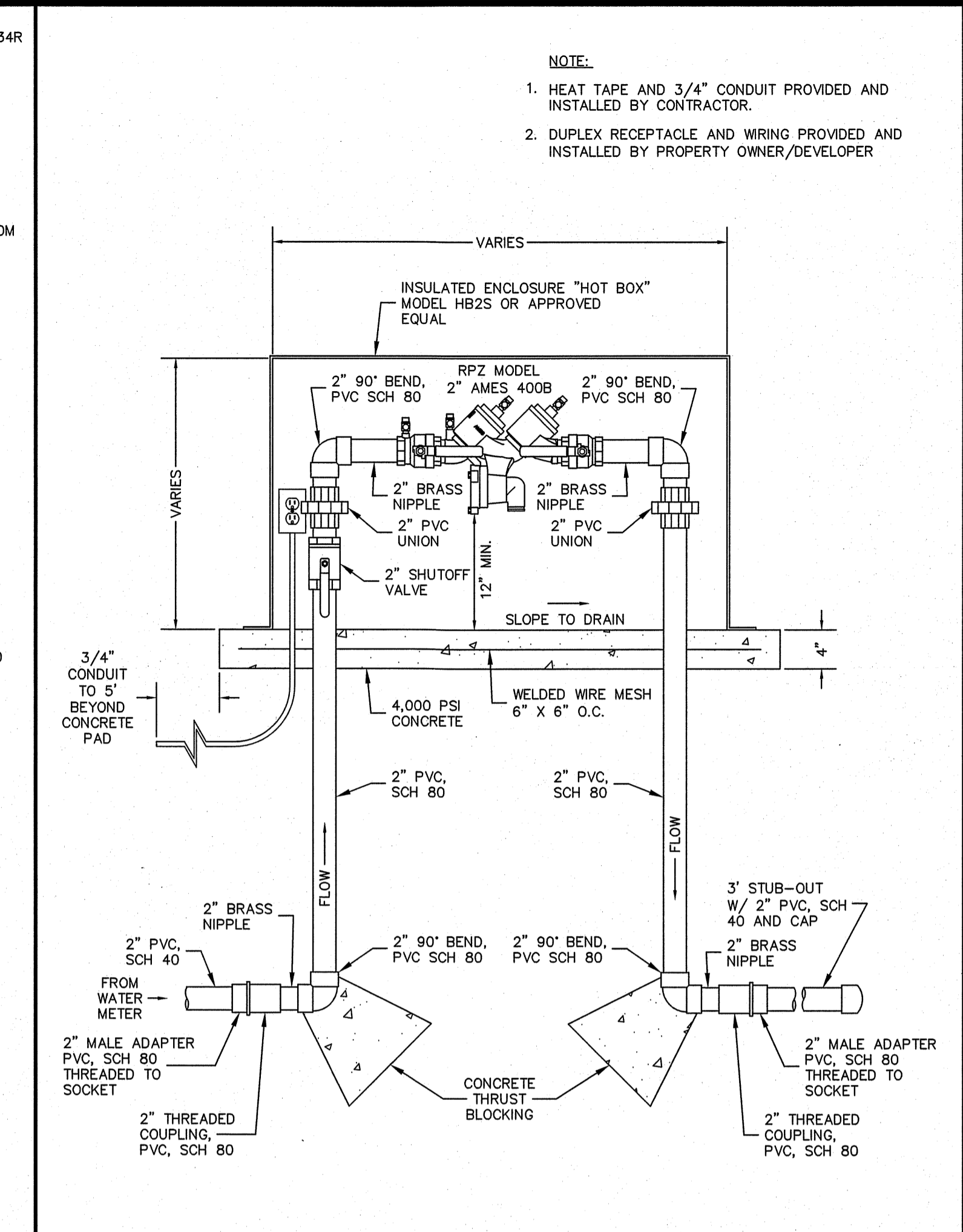
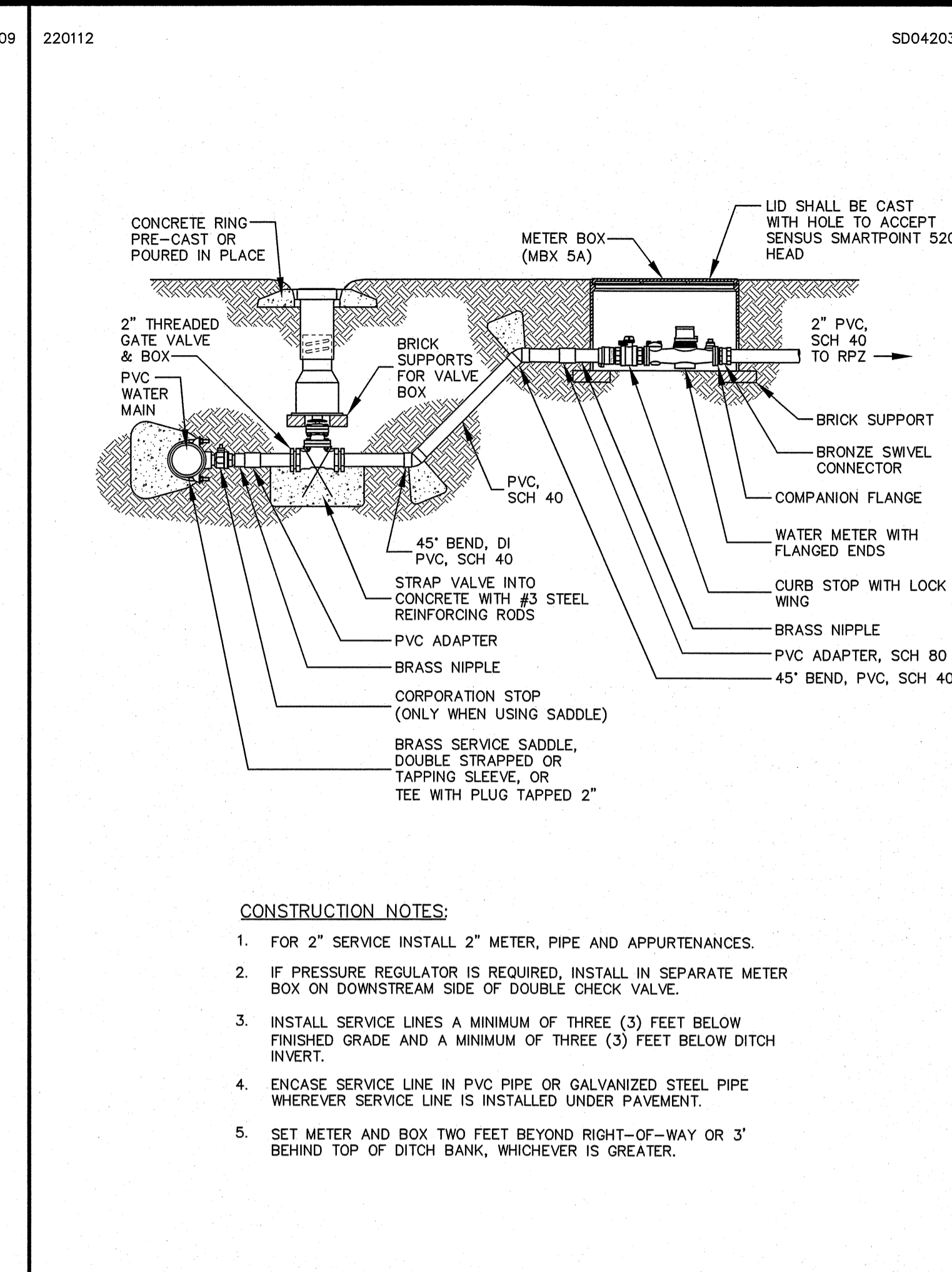
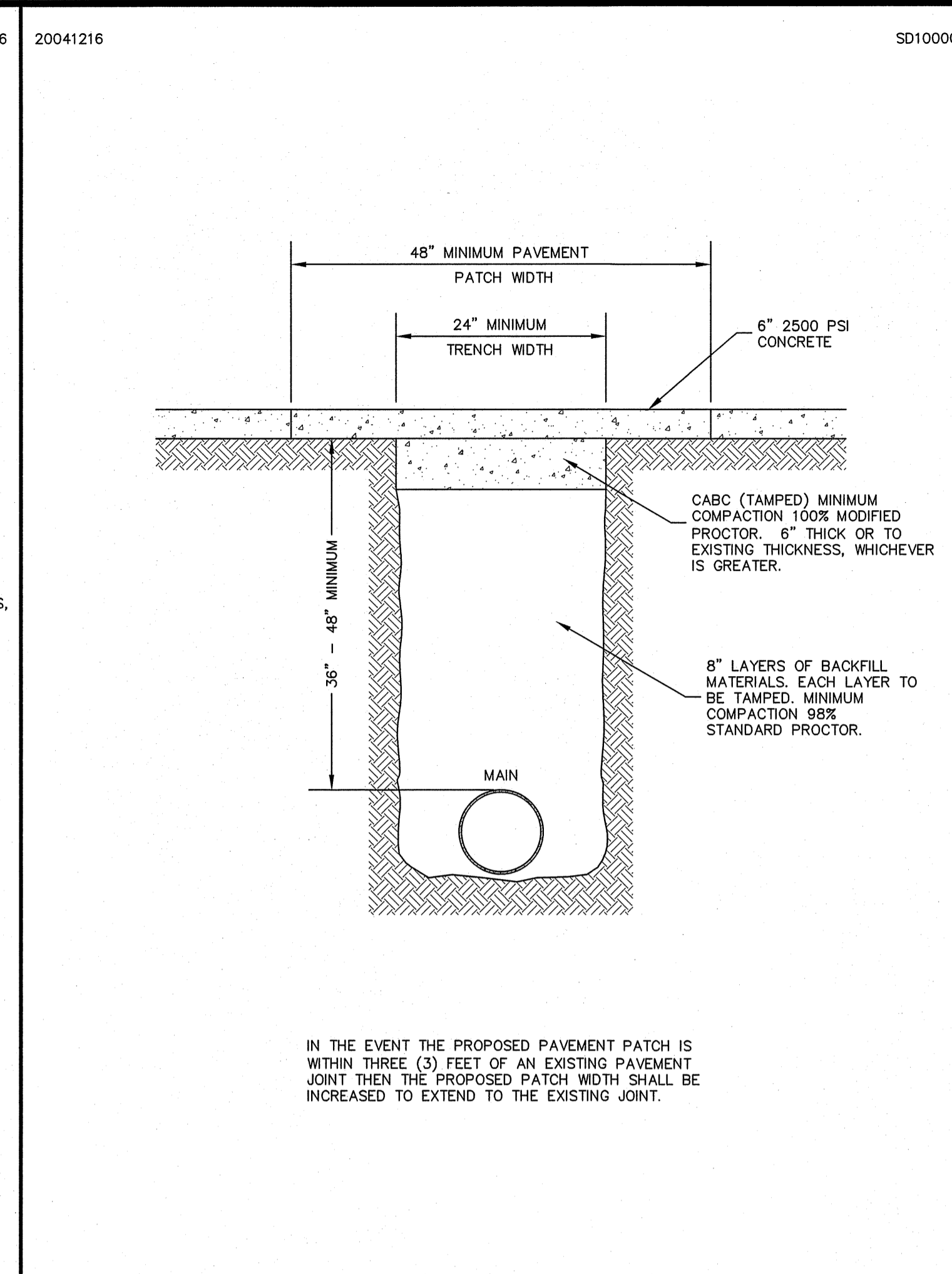
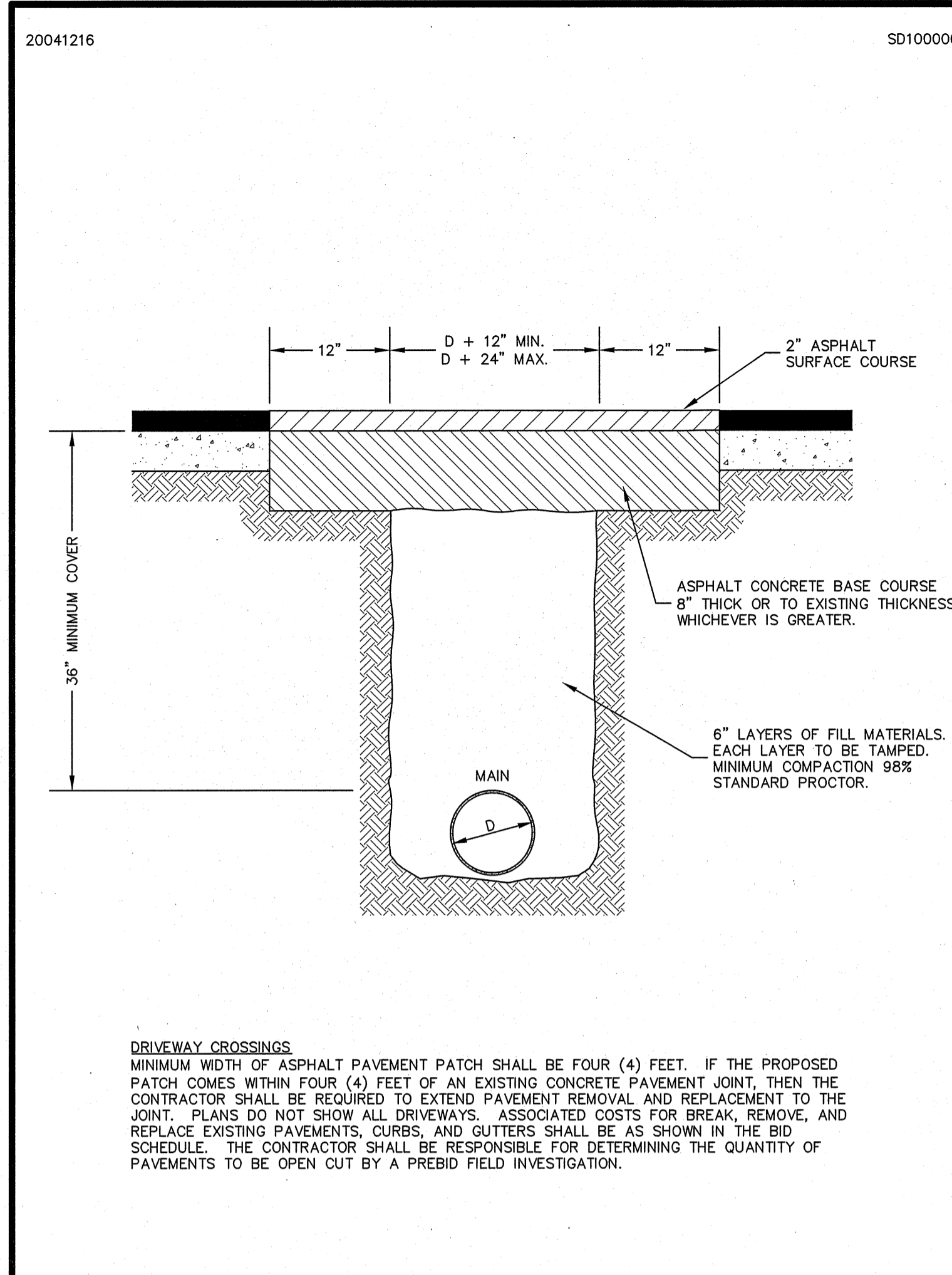
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1	8/10/2022	Added Fire Lane per Fire Marshal	

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 CAD DWG FILE NAME: 2022-6024-3402-CN2-SITE02.DWG  
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 SURVEYED BY: ---  
 COMPUTED BY: ---  
 DRAWING NO.: 4  
 SCALE: 1" = 20'  
 DATE: JUNE 10, 2022  
 APPROVED BY: ---

PROPOSED SITE GRADING PLAN  
 CONTRACT NO. 2 - RURAL URGENT CARE ERWIN  
 2022 SITE IMPROVEMENTS  
**RURAL URGENT CARE, LLC**  
 NORTH CAROLINA  
 HARNETT COUNTY





20080130

TABLE 1 - MINIMUM THRUST BLOCK AREAS AND DIMENSIONS

NOMINAL PIPE SIZE	90° BEND			45° BEND			22½° BEND			11¼° BEND			TEES, PLUGS AND VALVES		
	AREA (sf)	B (in)	H (in)	AREA (sf)	B (in)	H (in)	AREA (sf)	B (in)	H (in)	AREA (sf)	B (in)	H (in)	AREA (sf)	B (in)	H (in)
2"	0.4	10	6	0.2	8	4	0.1	6	3	0.1	6	3	0.3	8	6
3"	0.8	13	9	0.4	10	6	0.2	6	5	0.1	6	4	0.6	11	8
4"	1.5	18	12	0.8	13	9	0.4	10	6	0.2	6	6	1.0	15	10
6"	3.0	24	18	1.6	20	12	0.8	13	9	0.4	8	8	2.1	21	15
8"	5.2	32	24	2.8	24	17	1.4	17	12	0.7	11	11	3.6	26	20
10"	7.7	40	28	4.2	30	20	2.1	22	14	1.1	13	13	5.5	33	24
12"	10.9	50	32	5.9	36	24	3.0	24	18	1.5	15	15	7.7	40	28

BEARING AREAS IN TABLE 1 ABOVE ARE BASED ON BEARING AGAINST SAND. FOR OTHER SOIL CONDITIONS, THE AREAS AND DIMENSIONS IN TABLE 1 ABOVE SHALL BE MULTIPLIED BY THE APPROPRIATE MULTIPLIER FROM TABLE 2 BELOW.

TABLE 2 - SOIL MULTIPLIERS

SOIL TYPE	SOIL BEARING STRENGTH (psf)	AREA MULTIPLIER	DIMENSION MULTIPLIER
SOFT CLAY	1,000	4.00	2.00
SILT	1,500	2.67	1.64
SANDY SILT	3,000	1.33	1.16
SAND	4,000	1.00	1.00
SANDY CLAY	5,000	0.80	0.90
HARD CLAY	9,000	0.45	0.67

18" MIN. - 10" & SMALLER  
24" MIN. - 12" & LARGER

TYPICAL SECTION VIEW

UNDISTURBED SOIL

CONCRETE THRUST BLOCK

THRUST

PLAN VIEW - 90° BEND

UNDISTURBED SOIL

CONCRETE THRUST BLOCK

THRUST

PLAN VIEW - 45°, 22½°, AND 11¼° BENDS

UNDISTURBED SOIL

CONCRETE THRUST BLOCK

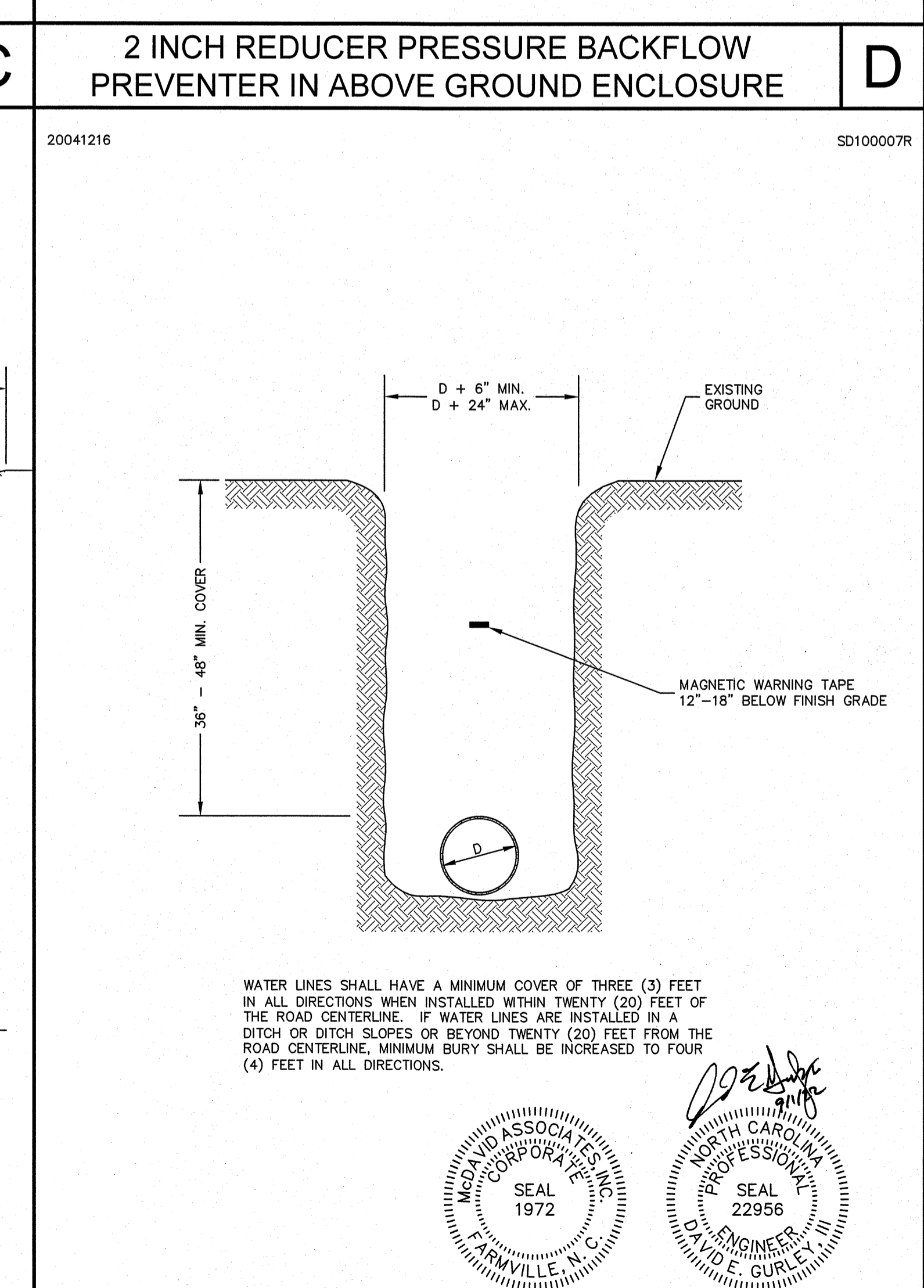
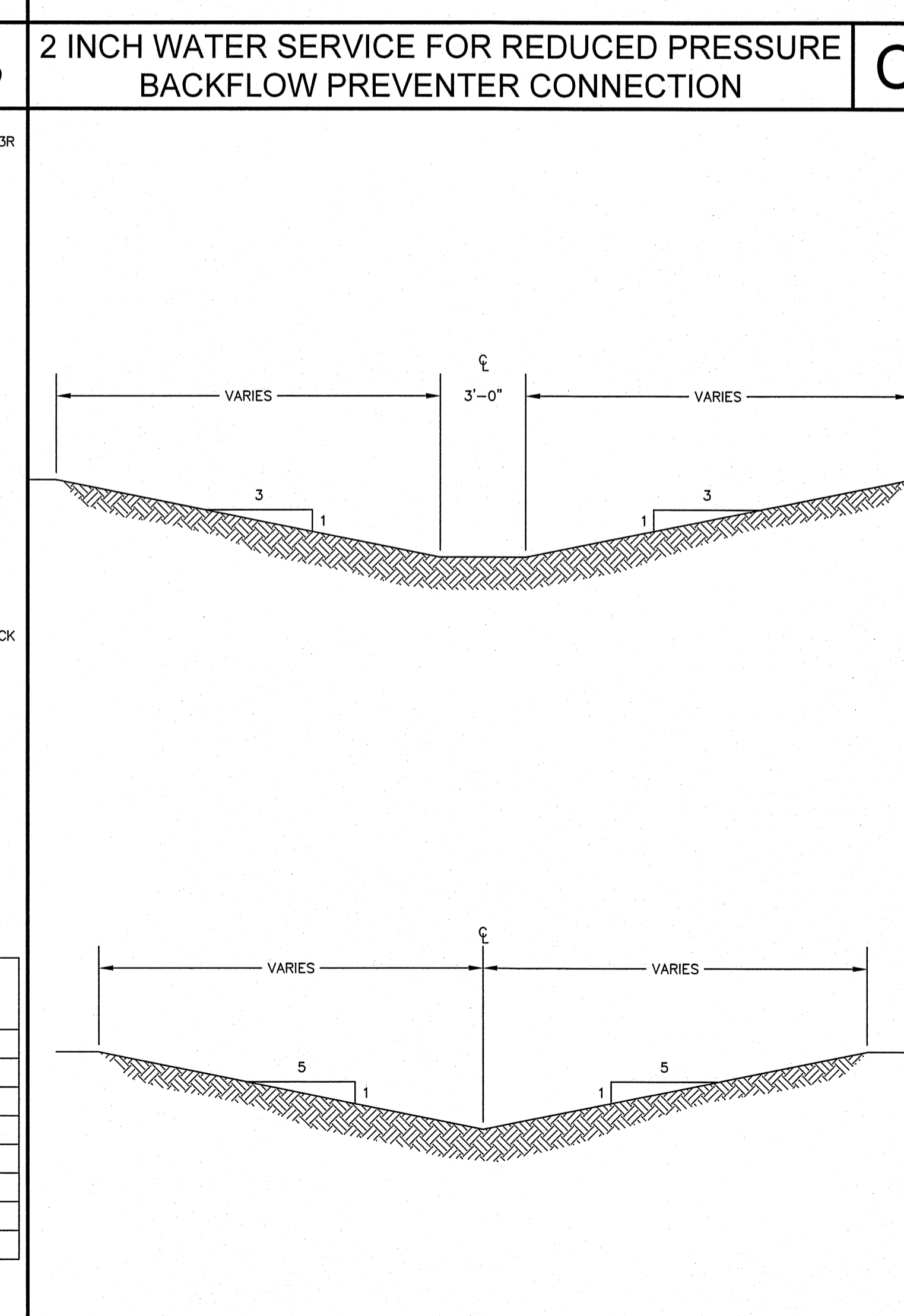
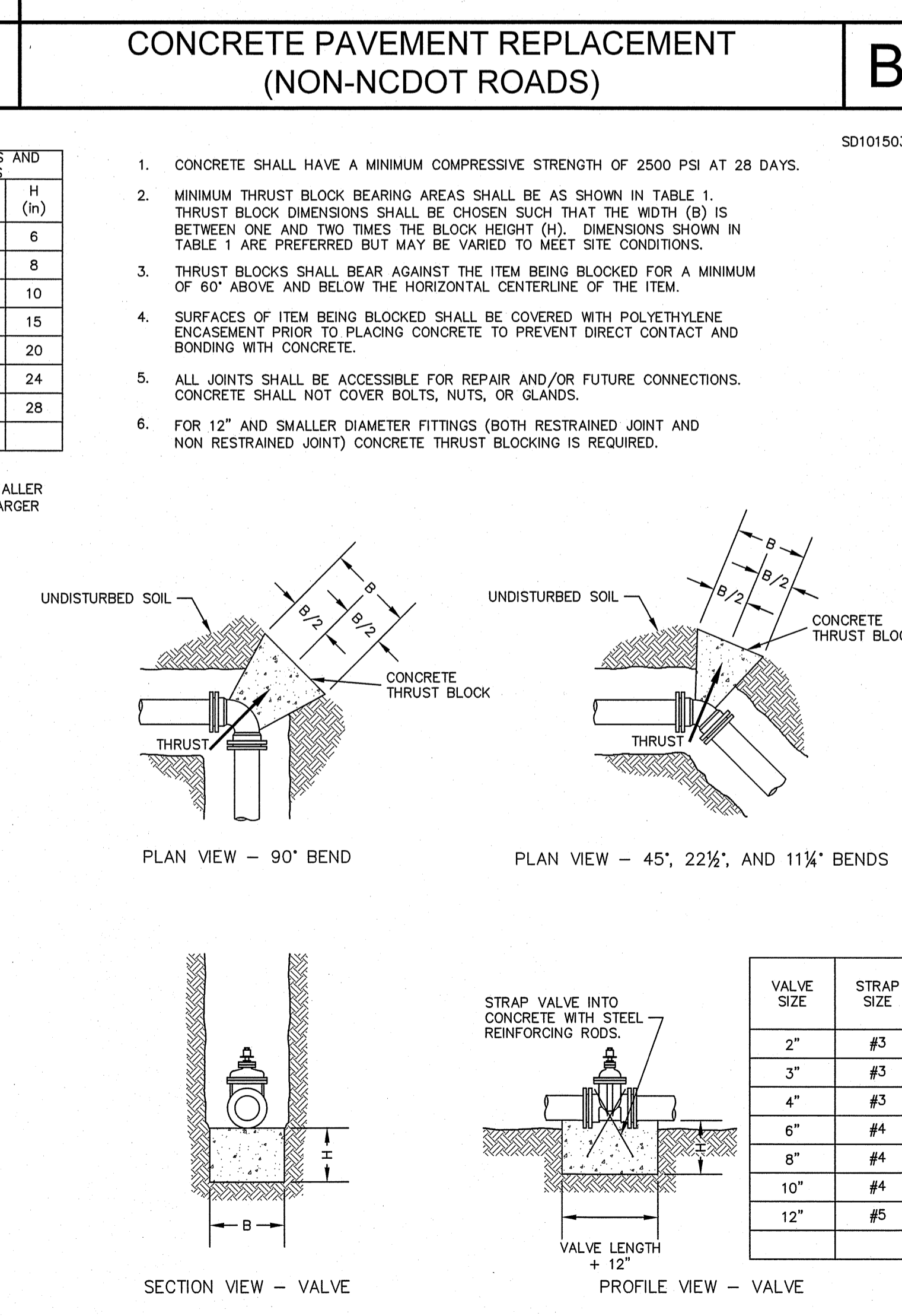
THRUST

SECTION VIEW - VALVE

STRAP VALVE INTO CONCRETE WITH STEEL REINFORCING RODS

VALVE LENGTH + 12"

VALVE SIZE	STRAP SIZE
2"	#3
3"	#3
4"	#3
6"	#4
8"	#4
10"	#4
12"	#5



REVISIONS

NO.	DATE	DESCRIPTION

DATE: \_\_\_\_\_

MAI REVIEW OFFICER APPROVAL

MAI REVIEW OFFICER

DATE: \_\_\_\_\_

MCDAVID ASSOCIATES, INC.

Corporate License No. C-137

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GENERAL CONSTRUCTION DETAILS

CONTRACT NO. 2 - RURAL URGENT CARE ERWIN

2022 SITE IMPROVEMENTS

RURAL URGENT CARE, LLC

NORTH CAROLINA

HARNETT COUNTY

SCALE: AS NOTED

DRAWN BY: \_\_\_\_\_

COMPUTED BY: \_\_\_\_\_

SURVEYED BY: \_\_\_\_\_

PROJECT NO.: 2-22-0024-3402

MAP FILE REFERENCE: \_\_\_\_\_

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DATE: JUNE 10, 2022

APPROVED BY: \_\_\_\_\_

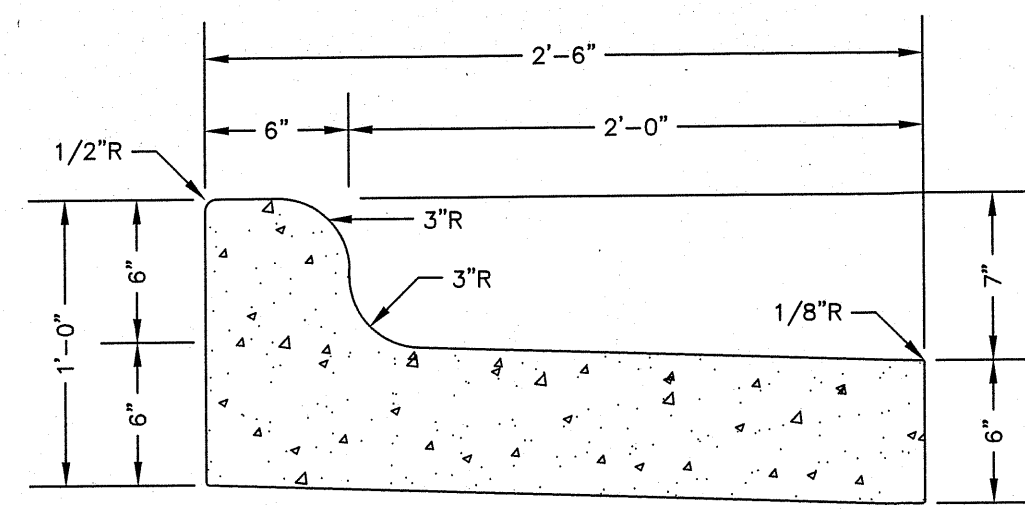
SEAL 22956

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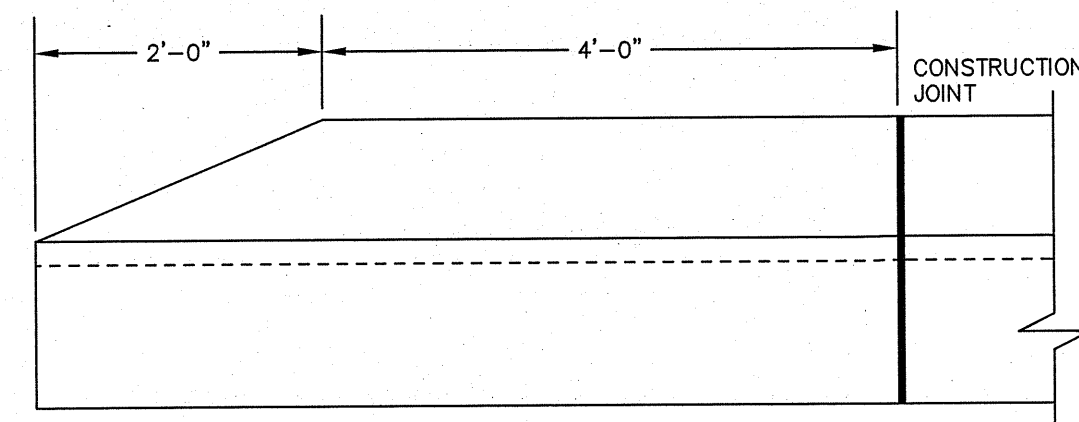
PROFESSIONAL ENGINEER

DAVID E. GURLEY, C.

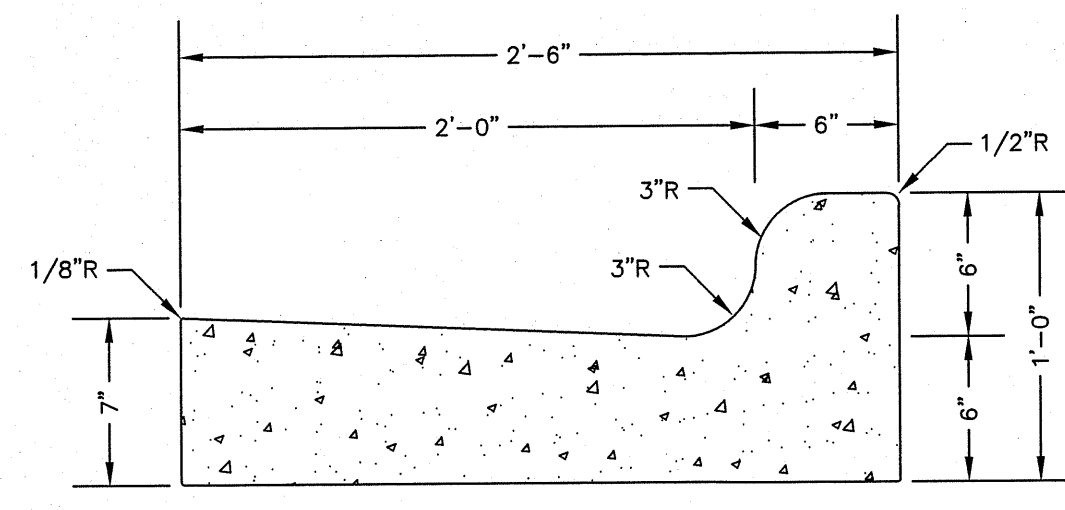
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 Plotted: Tuesday, August 23, 2022, 9:29:54am



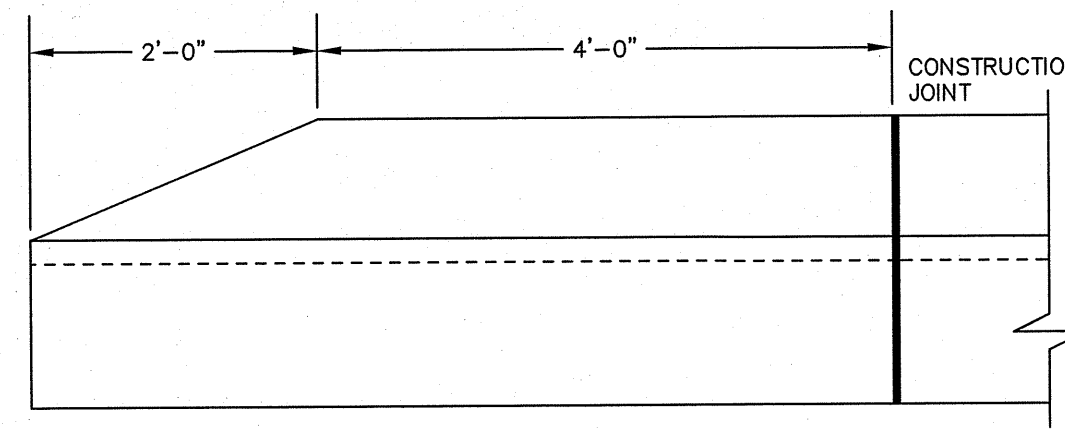
30" SPILLFACE STATE TYPE CURB & GUTTER



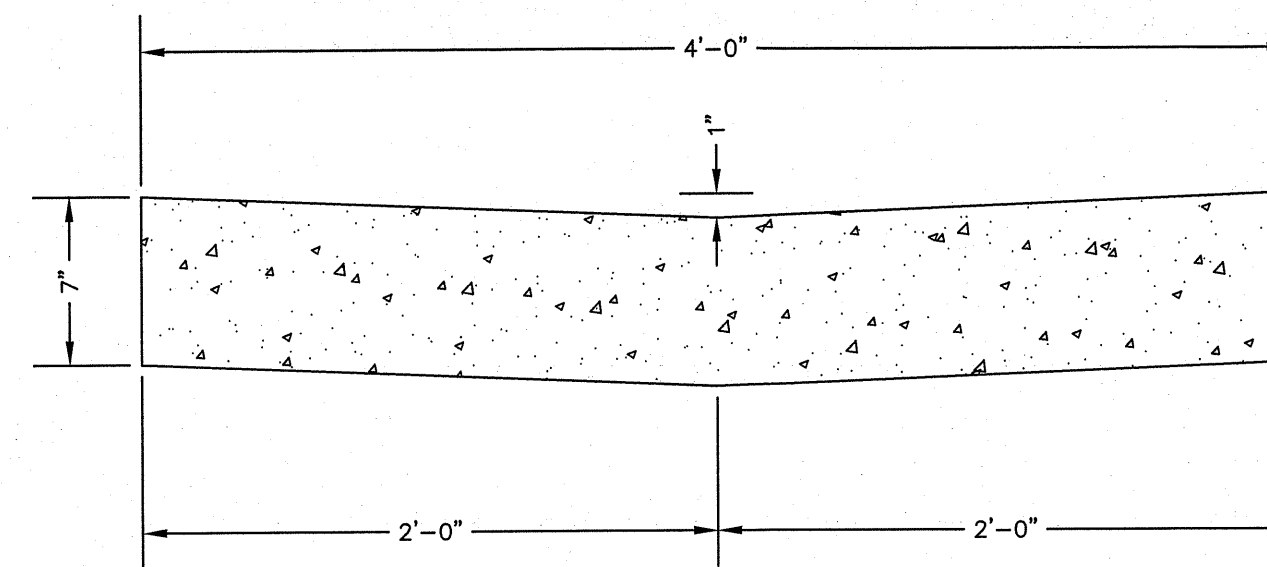
TYPICAL CURB & GUTTER END SECTION



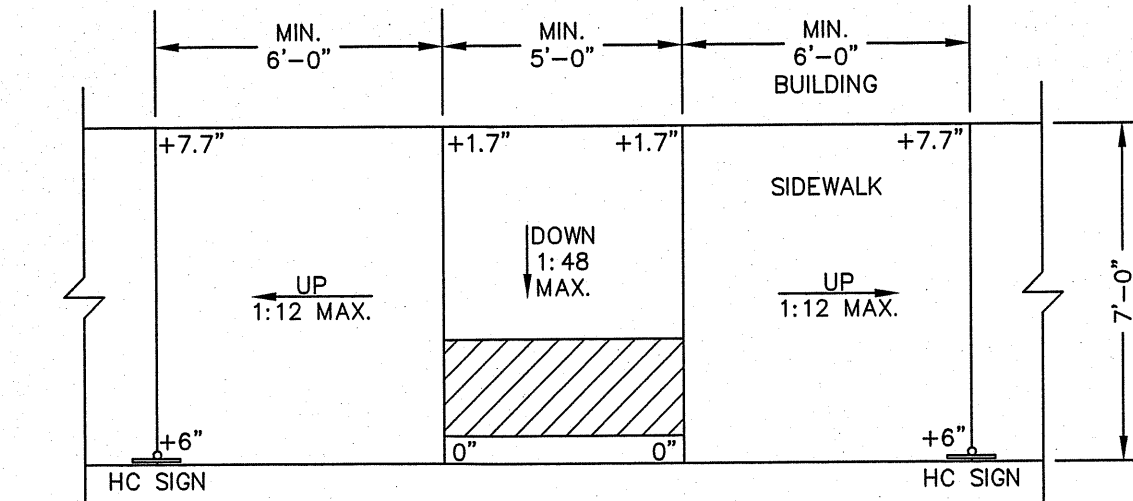
30" STANDARD CURB & GUTTER



TYPICAL CURB & GUTTER END SECTION



GUTTER



PARKING AREA

CURB RAMP WITH FLARED SIDES & DETECTABLE WARNING SYSTEM

SPILLFACE CURB & GUTTER

A

TYPICAL CURB & GUTTER

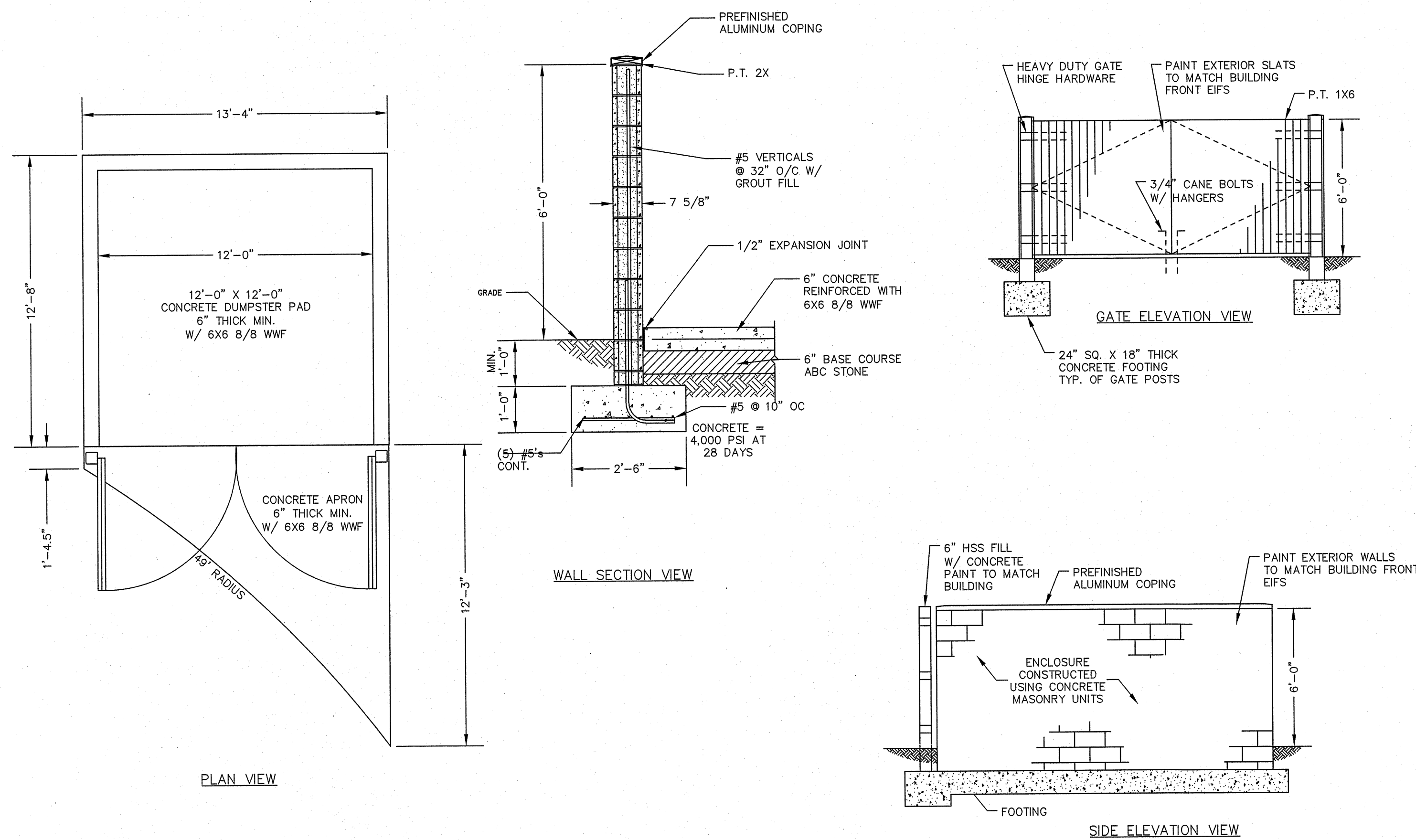
B

GUTTER

C

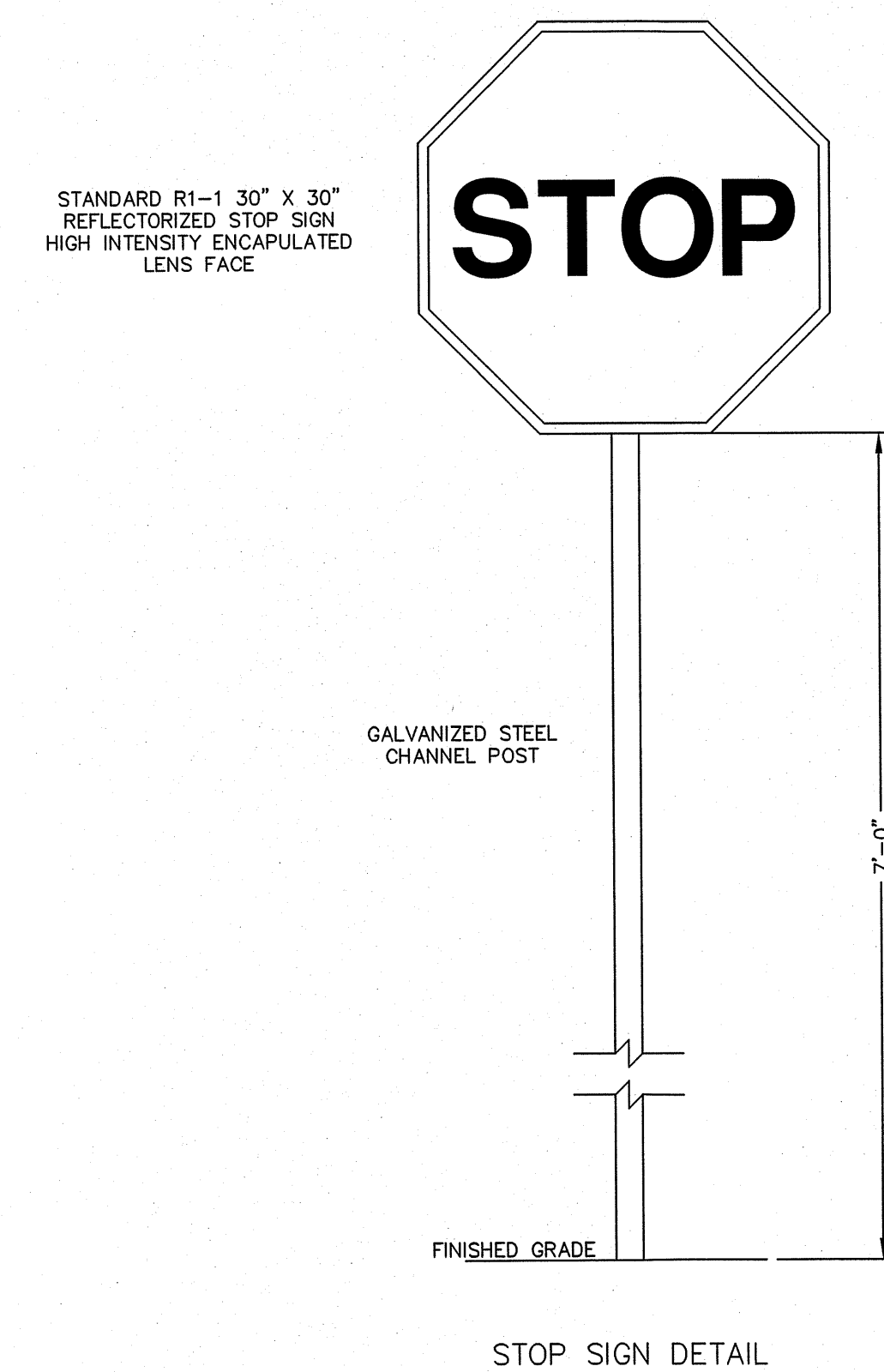
CURB RAMP WITH FLARED SIDES & DETECTABLE WARNING SYSTEM

D



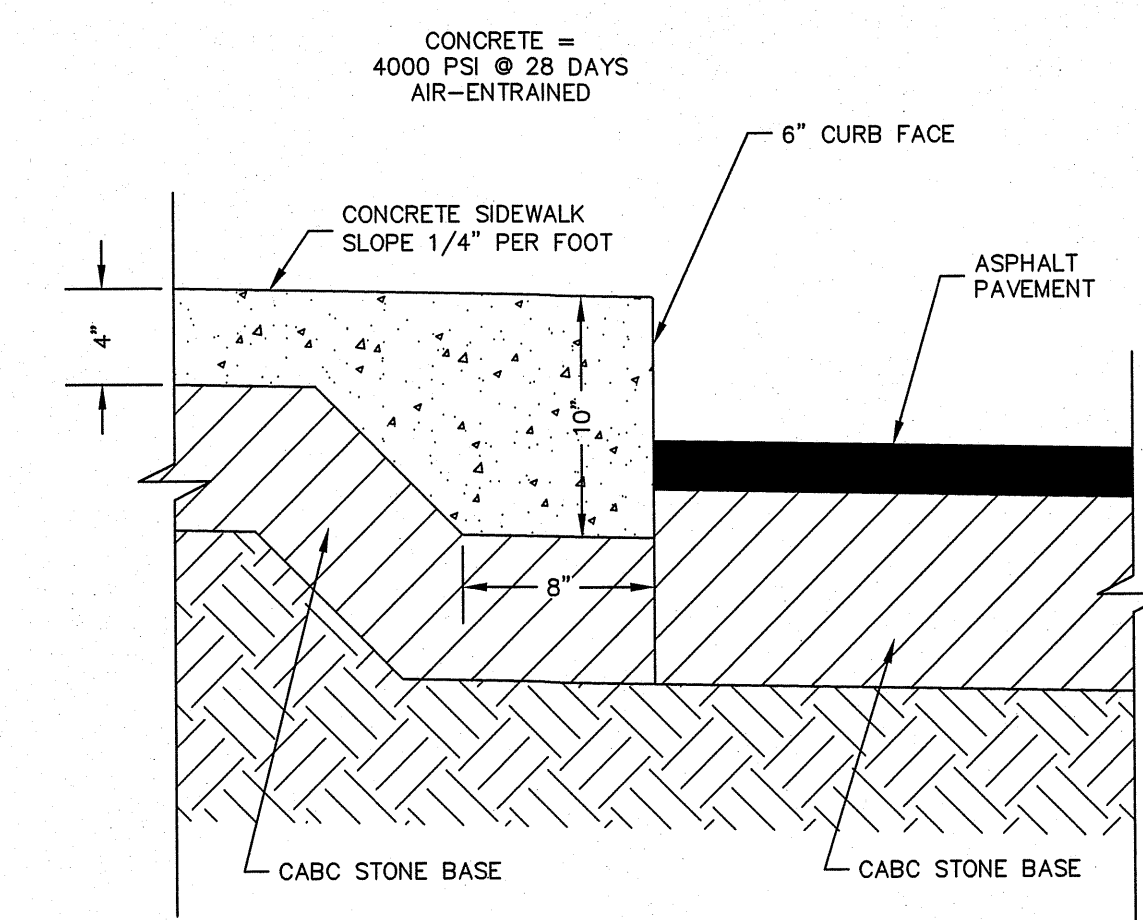
CONCRETE DUMPSTER ENCLOSURE & APRON

F



STOP SIGN

G



TYPICAL SIDEWALK TO PARKING AREA TRANSITION

H

REVISIONS

NO.	DATE	DESCRIPTION

MAI REVIEW OFFICER APPROVAL

DATE

MAI REVIEW OFFICER

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CAD FILE DIRECTORY: \\G-6105\0847\2022-6024-3402\DWG

CAD DWG FILE NAME: 2022-6024-3402-CN2-DETAILS02.DWG

CAD PLOT FILE NAME: 2022-6024-3402-CN2-DETAILS02-1.PDF

MAP FILE REFERENCE: 2022-6024-3402-CN2-DETAILS02-1.PDF

PROJECT NO.: 2-22-6024-3402

DRAWING NO.: 6

SCALE: AS NOTED

DATE: JUNE 10, 2022

SURVEYED BY:

COMPUTED BY:

DRAWN BY:

APPROVED BY:

GENERAL CONSTRUCTION DETAILS

CONTRACT NO. 2 - RURAL URGENT CARE ERWIN

2022 SITE IMPROVEMENTS

RURAL URGENT CARE, LLC

NORTH CAROLINA

HARNETT COUNTY

SEAL 1972

SEAL 22956

DAVID E. CURLY, III  
ENGINEER

Drawing: W:\D84x\_gen\084x\_eng\0847\2022-6024-3402 Rural Urgent Care Erwin\DWG\2022-6024-3402-CN2-Details02.dwg  
 Date: 6/10/2022 9:34:35am  
 Plotted: Tuesday, August 23, 2022, 9:34:35am

<p>20090211</p> <p><b>1. PRODUCTS</b></p> <p>A. Topsoil shall be capable of sustaining vigorous plant growth, not in frozen or muddy condition, containing not less than six (6) percent organic matter, and corrected to pH of 5.9 to 7.0.</p> <p>B. Lime shall be dolomitic agricultural-ground limestone containing not less than ten (10) percent magnesium oxide.</p> <p>C. Fertilizer shall be commercial type 10-20-20 with fifty (50) percent of the elements derived from organic sources.</p> <p>D. Seed.</p> <p>1. Seed shall be certified seed or equivalent based on North Carolina Seed Improvement Association requirements for certification. All seed shall be furnished in sealed standard containers. Seed which has become wet, moldy, or otherwise damaged prior to seeding, will not be acceptable.</p> <p>2. One (1) percent maximum weed seed content permitted.</p> <p>3. Seasonal mixtures for NC DOT right-of-ways:</p> <p>a. From September 1 to February 28:</p> <p>Fifty (50) pounds per acre of Kentucky 31 Fescue, thirty-five (35) pounds per acre of Bermudagrass (unhulled), and five (5) pounds per acre of Centipede.</p> <p>b. From March 1 to August 31:</p> <p>Fifty (50) pounds per acre of Kentucky 31 Fescue, twenty-five (25) pounds per acre of Bermudagrass (hulled), and five (5) pounds per acre of Centipede.</p> <p>4. Alternative seasonal mixtures outside NC DOT right-of-ways:</p> <p>a. From November 16 to February 28:</p> <p>Twenty-five (25) pounds per acre of Rye Grain, seventy-five (75) pounds per acre of Tall Fescue, Kentucky 31 or Alta Tall Fescue and thirty-five (35) pounds per acre of Bermudagrass (unhulled).</p> <p>b. From March 1 to May 15:</p> <p>Seventy-five (75) pounds per acre of Tall Fescue, Kentucky 31 or Alta Tall Fescue and thirty-five (35) pounds per acre of Bermudagrass (hulled).</p> <p>c. From May 16 to September 15:</p> <p>Fifty (50) pounds per acre of Bermudagrass (hulled) and forty (40) pounds per acre of Annual Lespedeza (Kobe or Korean).</p> <p>d. From September 16 to November 15:</p> <p>Seventy-five (75) pounds per acre of Tall Fescue, Kentucky 31 or Alta Tall Fescue and fifty (50) pounds per acre of Bermudagrass (unhulled).</p> <p>E. Mulching material shall be oat or wheat straw, in dry condition, reasonably free from weeds and foreign matter detrimental to plant life.</p> <p><b>2. GENERAL CONDITIONS</b></p> <p>A. When conditions are such by reason of drought, high winds, excessive moisture or other factors where satisfactory results will not be obtained, the WORK shall be stopped, and resumed only when conditions are favorable.</p>	<p><b>3. SEEDBED PREPARATION</b></p> <p>A. Protect existing underground improvements from damage.</p> <p>B. Clear the ground surface of stumps, stones, roots, cables, wire, grade stakes, and other materials that might hinder proper grading, tillage, seeding or subsequent maintenance operations.</p> <p>C. Remove contaminated subsoil.</p> <p>D. Grade to eliminate rough spots and low area where ponding may occur. Maintain smooth, uniform grade.</p> <p>E. Assure positive drainage away from buildings.</p> <p>F. Finish ground level firm and sufficient to prevent sinkage pockets when irrigation is applied.</p> <p>G. Grades on the area to be seeded shall be maintained to a true and even condition. Maintenance shall include any necessary repairs to previously graded areas.</p> <p>H. Uniformly apply lime at a rate of 4000 pounds per acre prior to preparation of seedbed.</p> <p>I. Thoroughly till all graded areas to a depth of at least five (5) inches by plowing, disking, harrowing, or other approved methods until the condition of the soil is acceptable. On sites where soil conditions are such that high clay content and excessive compaction cause difficulty in getting clods and lumps effectively pulverized, use rotary tillage machinery until soil mixture is acceptable and no clods or clumps larger than one-half (1/2) inch in diameter remain.</p> <p>J. Remove from site foreign materials collected during tilling.</p> <p>K. Uniformly apply fertilizer at a rate of 500 pounds per acre of 10-20-20 analysis.</p> <p>L. Incorporate the fertilizer into the upper three (3) or four (4) inches of prepared seedbed just prior to the last tillage operation. However, never apply fertilizer more than (3) days prior to seeding. Use fertilizer immediately after delivery or store it in a manner that will not permit it to harden or destroy its effectiveness.</p> <p>M. The seedbed should be firm and compact. Prior to seeding, grade the seedbed and lightly compact it with a land roller, such as a cultipacker.</p> <p><b>4. SEEDING</b></p> <p>A. Do not sow seed immediately following rain, when ground is too dry, or during windy periods. Do not apply grass seed and fertilizer at the same time in the same machine.</p> <p>B. Apply seed at specified seasonal rate.</p> <p>C. Rake seed in lightly.</p> <p>D. Roll seeded area with roller not exceeding 112 pounds (50 kg).</p> <p>E. Apply water with fine spray immediately after each area has been sown.</p> <p><b>5. MULCHING PRACTICES</b></p> <p>A. Apply one (1) to two (2) tons of mulching material per acre to seeded areas. Apply mulching material with mechanical type equipment and obtain a uniform distribution which permits sunlight to penetrate to the ground surface. Bare areas and areas with thick clumps of straw are not acceptable.</p>	<p><b>B. Anchor mulching material.</b></p> <p>1. In areas with gentle slopes, crimp mulching material into soil.</p> <p>2. On steeper slopes such as the sides of swales, anchor mulch with netting or asphalt tack.</p> <p>3. On road shoulders, anchor mulch with asphalt tack if crimping is unsuccessful.</p> <p>4. Use asphalt tack in lieu of crimping when required by regulatory agencies or if directed by the ENGINEER. Typically, asphalt tack in lieu of crimping will be required in areas with high traffic because of wind generated by the traffic.</p> <p>5. On slopes steeper than 2:1, jute, excelsior, or synthetic matting may be required to protect the slope from erosion. They should be installed before mulch is applied to surrounding areas.</p> <p><b>6. WATERING</b></p> <p>A. Lightly water to aid breakdown of fertilizer and to provide moist soil for seed.</p> <p><b>7. MAINTENANCE PERIOD</b></p> <p>A. Maintenance Period: until final acceptance.</p> <p><b>8. MAINTENANCE</b></p> <p>A. Maintain surfaces and supply additional topsoil where necessary, including areas affected by erosion.</p> <p>B. Water to ensure uniform seed germination and to keep surface of soil damp.</p> <p>C. Apply water slowly so that surface of soil will not puddle and crust.</p> <p>D. Except for rye grain, cut grass first time when it reaches height of two and one-half (2 1/2) inches (60 mm) and maintain to minimum of two (2) inches (50 mm). Do not cut more than 1/3 of blade at any one mowing.</p> <p>E. If rye grain is planted mow to maintain grass height between three (3) and six (6) inches until Fescue matures enough to provide ground cover.</p> <p>F. After first mowing water grass sufficient to moisten soil from three (3) inches to five (5) inches (76 to 127 mm) deep.</p> <p>G. Apply weed killer when weeds start developing, during calm weather when air temperature is above fifty (50) degrees Fahrenheit [ten (10) degrees Celsius].</p> <p>H. Replant damaged grass areas showing root growth failure, deterioration, bare or thin spots, and eroded areas.</p> <p><b>9. RESTORATION</b></p> <p>A. Restore grassed areas until accepted.</p> <p><b>10. ACCEPTANCE</b></p> <p>A. Seeded areas will be accepted at end of maintenance period when seeded areas are properly established and otherwise acceptable.</p>	<p>S0071900</p> <p>20041215</p> <p>S0071000</p> <p>20041217</p> <p><b>CONSTRUCTION SPECIFICATIONS</b></p> <p>STONE SIZE - USE WASHED STONE 2" - 3" SIZE.</p> <p>LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.</p> <p>THICKNESS - NOT LESS THAN SIX (6) INCHES.</p> <p>WIDTH - NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS, MINIMUM 14 FT.</p> <p>WASHING - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS.</p> <p>MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.</p>	<p>S0041003</p> <p>WATER MAINS SHALL BE INSTALLED UNDER STORM DRAINS (MINIMUM 24" COVER) OR BEYOND THE ENDS OF STORM DRAINS (MINIMUM 48" COVER). TYPICALLY WITHIN FIVE (5) FEET OF THE EDGE OF THE RIGHT-OF-WAY.</p> <p>WHERE UNCASED BORES ARE NOT POSSIBLE OR WHERE DURING INSTALLATION THE BEDDING BENEATH THE EXISTING STORM DRAIN IS DISTURBED, THE FOLLOWING ACTION SHALL BE REQUIRED:</p> <p>A. THE EXISTING STORM DRAIN SHALL BE REMOVED AND #57 STONE BEDDING SHALL BE USED BETWEEN THE WATERLINE AND THE CENTERLINE OF THE STORM DRAIN, OR</p> <p>B. THE EXISTING STORM DRAIN SHALL BE SUPPORTED IN PLACE AND FLOWABLE FILL (CEMENT GROUT) SHALL BE USED AS BEDDING BETWEEN THE WATER LINE AND THE CENTERLINE OF THE STORM DRAIN.</p> <p>THE COST OF BEDDING, #57 STONE, FLOWABLE FILL, ETC. SHALL BE INCLUDED IN THE UNIT PRICE OF THE PROPOSED MAIN.</p>
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**SEEDING CONSTRUCTION NOTES**

<p>20180501</p> <p>SD070004</p> <p><b>CONSTRUCTION SPECIFICATIONS</b></p> <p><b>MATERIALS</b></p> <p>1. USE A SYNTHETIC FILTER FABRIC OF AT LEAST 80# BY WEIGHT OF POLYPROPYLENE OR POLYESTER, WHICH IS CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE REQUIREMENTS IN ASTM D 6481. SYNTHETIC FILTER FABRIC SHOULD CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0 TO 120° F.</p> <p>2. ENSURE THAT POSTS FOR SEDIMENT FENCES ARE 1.33 LB/LINEAR FT STEEL WITH A MINIMUM LENGTH OF 5 FEET. MAKE SURE THAT STEEL POSTS HAVE PROJECTIONS TO FACILITATE FASTENING THE FABRIC.</p> <p>3. FOR REINFORCEMENT OF STANDARD STRENGTH FILTER FABRIC, USE WIRE FENCE WITH A MINIMUM 14 GAUGE AND A MAXIMUM MESH SPACING OF 6 INCHES.</p> <p><b>CONSTRUCTION</b></p> <p>1. CONSTRUCT THE SEDIMENT BARRIER OF STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS.</p> <p>2. ENSURE THAT THE HEIGHT OF THE SEDIMENT FENCE DOES NOT EXCEED 24 INCHES ABOVE THE GROUND SURFACE. (HIGHER FENCES MAY INCREASE VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.)</p> <p>3. CONSTRUCT THE FILTER FABRIC FROM A CONTINUOUS ROLL OUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS. WHEN JOINTS ARE NECESSARY, SECURELY FASTEN THE FILTER CLOTH ONLY AT A SUPPORT POST WITHIN 4 FEET MINIMUM OVERLAP TO THE NEXT POST.</p> <p>4. SUPPORT STANDARD STRENGTH FILTER FABRIC BY WIRE MESH OR STAPLED SECURELY TO THE UPSLOPE SIDE OF THE POSTS. EXTEND THE WIRE MESH SUPPORT TO THE BOTTOM OF THE TRENCH. FASTEN THE WIRE REINFORCEMENT, THEN FABRIC ON THE UPSLOPE SIDE OF THE FENCE POST. WIRE OR PLASTIC ZIP TIES SHOULD HAVE MINIMUM 50 POUND TENSILE STRENGTH.</p> <p>5. WHEN A WIRE MESH SUPPORT FENCE IS USED, SPACE POSTS A MAXIMUM OF 8 FEET APART. SUPPORT POSTS SHOULD BE DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 24 INCHES.</p> <p>6. EXTRA STRENGTH FILTER FABRIC WITH 6 FEET POST SPACING DOES NOT REQUIRE WIRE MESH SUPPORT FENCE. SECURELY FASTEN THE FILTER FABRIC DIRECTLY TO POSTS. WIRE OR PLASTIC ZIP TIES SHOULD HAVE MINIMUM 50 POUND TENSILE STRENGTH.</p> <p>7. EXCAVATE A TRENCH APPROXIMATELY 4 INCHES WIDE AND 8 INCHES DEEP ALONG THE PROPOSED LINE OF POSTS AND UPSLOPE FROM THE BARRIER.</p> <p>8. PLACE 12 INCHES OF THE FABRIC ALONG THE BOTTOM AND SIDE OF THE TRENCH.</p> <p>9. BACKFILL THE TRENCH WITH SOIL PLACED OVER THE FILTER FABRIC AND COMPACT THROUGHOUT TO THE COMPACTION OF THE BACKFILL IS CRITICAL TO SILT FENCE PERFORMANCE.</p> <p>10. DO NOT ATTACH FILTER FABRIC TO EXISTING TREES.</p> <p><b>INSTALLATION SPECIFICATIONS</b></p> <p>1. THE BASE OF BOTH END POSTS SHOULD BE AT LEAST ONE FOOT HIGHER THAN THE MIDDLE OF THE FENCE. CHECK WITH A LEVEL IF NECESSARY.</p> <p>2. INSTALL POSTS 4 FEET APART IN CRITICAL AREAS 6 FEET APART ON STANDARD APPLICATIONS.</p> <p>3. INSTALL POSTS 2 FEET DEEP ON THE DOWNSTREAM SIDE OF THE SILT FENCE, AND AS CLOSE AS POSSIBLE TO THE FABRIC, ENABLING POSTS TO SUPPORT THE FABRIC FROM UPSTREAM WATER PRESSURE.</p> <p>4. INSTALL POSTS WITH THE NIPPLES FACING AWAY FROM THE SILT FABRIC.</p> <p>5. ATTACH THE FABRIC TO EACH POST WITH THREE TIES, ALL SPACED WITHIN THE TOP 8 INCHES OF THE FABRIC. ATTACH EACH TIE DIAGONALLY AS DEGREES THROUGH THE FABRIC WITH EACH PUNCTURE AT LEAST 1 INCH VERTICALLY APART. ALSO, EACH TIE SHOULD BE POSITIONED TO HANG ON A POST NIPPLE WHEN TIGHTENED TO PREVENT SNAGGING.</p> <p>6. WRAP APPROXIMATELY 6 INCHES OF FABRIC AROUND THE END POSTS AND SECURE WITH 3 TIES.</p> <p>7. NO MORE THAN 24 INCHES OF A 36 INCH FABRIC IS ALLOWED ABOVE GROUND LEVEL.</p> <p>8. THE INSTALLATION SHOULD BE CHECKED AND CORRECTED FOR ANY DEVIATIONS BEFORE COMPACTION.</p> <p>9. COMPACTION IS VITALLY IMPORTANT FOR EFFECTIVE RESULTS. COMPACT THE SOIL IMMEDIATELY NEXT TO THE SILT FENCE FABRIC WITH THE FRONT WHEEL OF THE TRACTOR. THE ADJACENT EDGES SHOULD BE AT LEAST 60 POUNDS PER SQUARE INCH. COMPACT THE UPSLOPE SIDE FIRST, AND THEN EACH SIDE TWICE FOR A TOTAL OF 4 TRIPS.</p> <p><b>MAINTENANCE</b></p> <p>1. INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.</p> <p>2. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.</p> <p>3. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.</p> <p>4. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.</p> <p><b>INSTALLATION:</b></p> <p>EXCELSIOR MATTING WITH PHOTO DEGRADABLE PLASTIC WEAVING SHALL BE USED AS AUTHORIZED BY THE ENGINEER FOR SLOPE TREATMENT IN AREAS WHERE STEEP GRADES MAY CAUSE EROSION. INSTALLATION INSTRUCTIONS AS FOLLOWS:</p> <p>1. APPLY LIME, FERTILIZER AND SEED BEFORE LAYING THE MAT.</p> <p>2. START LAYING THE MAT FROM TOP OF THE SLOPE AND UNROLL IT DOWN THE GRADE. ALLOW MATTING TO LAY LOOSELY ON THE SOIL OR MULCH WITHOUT WRINKLES, DO NOT STRETCH.</p> <p>3. TO SECURE THE NET, BURY THE UPSLOPE END IN A SLOT OR TRENCH NO LESS THAN 6 INCHES DEEP. COVER WITH SOIL, AND TAMP FIRMLY AS SHOWN. STAPLE THE MAT EVERY 12 INCHES ACROSS THE TOP END AND EVERY 3 FT AROUND THE EDGES AND BOTTOM. WHERE 2 STRIPS OF NET ARE LAID SIDE BY SIDE, THE ADJACENT EDGES SHOULD BE OVERLAPPED 3 INCHES AND STAPLED TOGETHER. EACH STRIP OF NETTING SHOULD ALSO BE STAPLED DOWN THE CENTER, EVERY 3 FT. DO NOT STRETCH THE NET WHEN APPLYING STAPLES.</p> <p>4. TO JOIN TWO STRIPS, CUT A TRENCH TO ANCHOR THE END OF THE NEW NET. OVERLAP THE END OF THE PREVIOUS ROLL 18 INCHES, AS SHOWN, AND STAPLE EVERY 12 INCHES JUST BELOW THE ANCHOR SLOT.</p> <p><b>MAINTENANCE:</b></p> <p>INSPECT ALL MATTING PERIODICALLY, AND AFTER RAINSTORMS TO CHECK FOR RILL EROSION, DISLOCATION OR FAILURE. WHERE EROSION IS OBSERVED, APPLY ADDITIONAL MATTING. IF WASHOUT OCCURS, REPAIR THE SLOPE GRADE, RESEED, AND REINSTALL MATTING. CONTINUE INSPECTIONS UNTIL VEGETATION IS FIRMLY ESTABLISHED.</p>	<p>20130613</p> <p>SD070525R</p> <p><b>CONSTRUCTION NOTES:</b></p> <p>DITCH TREATMENT SHALL BE USED IN AREAS WHERE STEEP GRADES COULD CAUSE DITCH EROSION. USE OF JUTE, MESH, EXCELSIOR MATTING, OR FIBERGLASS ROVING IS ACCEPTABLE. DITCH TREATMENT SHOULD BE INSTALLED BEFORE MULCHING OPERATION.</p> <p><b>ANCHOR NETTING IN A 6-INCH TRENCH</b></p> <p><b>JOIN STRIPS BY ANCHORING AND OVERLAPPING.</b></p>	<p>20180501</p> <p>SD070508</p> <p><b>CONSTRUCTION NOTES:</b></p> <p>1. PLACE STRUCTURAL STONE (CLASS B) ON A FILTER FABRIC FOUNDATION. THE CREST WIDTH OF THE DAM SHOULD BE A MINIMUM OF 2 FEET.</p> <p>2. CONSTRUCT SPILLWAY A MINIMUM OF 12 INCHES BELOW LOWEST BANK.</p> <p>3. PLACE SEDIMENT CONTROL STONE (#57) ON THE UPSLOPE SIDE OF THE DAM A MINIMUM 1 FOOT THICK.</p> <p>4. PROVIDE AN APRON 3 TIMES THE HEIGHT OF THE DAM. THE APRON WIDTH SHALL BE AT LEAST 4 FEET LONG. UNDERCUT THE APRON SO THAT THE TOP OF THE APRON IS FLUSH WITH THE SURROUNDING GRADE.</p> <p>5. EXTEND THE STONE AT LEAST 1.5 FEET BEYOND THE DITCH BANK TO KEEP WATER FROM CUTTING AROUND THE ENDS OF THE CHECK DAM.</p> <p>6. EXCAVATE SEDIMENT STORAGE AREA.</p> <p><b>MAINTENANCE NOTES:</b></p> <p>1. INSPECT AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT AND REPAIR IMMEDIATELY. CLEAN OUT SEDIMENT, STRAW, LIMBS, OR OTHER DEBRIS THAT COULD CLOG THE CHANNEL WHEN NEEDED.</p> <p>2. ANTICIPATE SUBMERGENCE AND DEPOSITION ABOVE THE CHECK DAM AND EROSION FROM HIGH FLOWS AROUND THE EDGES OF THE DAM. CORRECT ALL DAMAGE IMMEDIATELY.</p> <p>3. REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION. ALLOW THE CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM, AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. ADD STONES TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.</p>	<p>990827</p> <p>SD105000</p> <p>OPERATIONS ON SHOULDER WITHIN TWO FEET OF EDGE OF PAVEMENT ON TWO-LANE ROAD</p> <p><b>LEGEND:</b></p> <ul style="list-style-type: none"> <li>CONES/DRUMS</li> <li>FLAGMAN</li> <li>FLASHER</li> <li>SIGN</li> </ul> <p>TRAFFIC CONTROL SHALL AT A MINIMUM COMPLY WITH PART VI OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND ANY SUPPLEMENTS PUBLISHED BY THE NCDOT.</p> <p>IF TRAFFIC ENROACHES INTO OPPOSING LANES, MORE EXTENSIVE SIGNING IS REQUIRED IN BOTH DIRECTIONS, ALONG WITH A FLAGMAN.</p> <p>SEAL 1972</p> <p>SEAL 22956</p>
<p><b>TEMPORARY SILT FENCE</b></p> <p>D</p>	<p><b>EXCELSIOR MATTING</b></p> <p>E</p>	<p><b>RIP-RAP GRAVEL FILTER CHECK DAM</b></p> <p>F</p>	<p><b>TRAFFIC CONTROL</b></p> <p>G</p>

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CAD FILE DIRECTORY: \\p-0105\0847\2022-6024-3402\DWG  
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 CAD PLOT FILE NAME: 2022-6024-3402-CN2-DETAILS03-1.PDF  
 MAP FILE REFERENCE:  
 PROJECT NO.: 2-22-6024-3402  
 SURVEYED BY:  
 DRAWING NO.: 7  
 COMPUTED BY:  
 SCALE: AS NOTED  
 DRAWN BY:  
 DATE: JUNE 10, 2022  
 APPROVED BY:

GENERAL CONSTRUCTION DETAILS  
 CONTRACT NO. 2 - RURAL URGENT CARE ERWIN  
 2022 SITE IMPROVEMENTS  
 RURAL URGENT CARE, LLC  
 NORTH CAROLINA  
 HARNETT COUNTY

Drawing: W:\08xx\_gen\084x\_eng\0847\_1.dwg  
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**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 shown on this sheet shall not apply depending on site conditions and the delegated authority having jurisdiction.

**SECTION E: GROUND STABILIZATION**

**Required Ground Stabilization Timeframes**

Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (H2O) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed.
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and H2O Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and H2O Zones -10 days for Falls Lake Watershed unless there is zero slope

**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
<ul style="list-style-type: none"> <li>Temporary grass seed covered with straw or other mulches and tackifiers</li> <li>Hydroseeding</li> <li>Roller erosion control products with or without temporary grass seed</li> <li>Appropriately applied straw or other mulch</li> <li>Plastic sheeting</li> </ul>	<ul style="list-style-type: none"> <li>Permanent grass seed covered with straw or other mulches and tackifiers</li> <li>Geotextile fabrics such as permanent soil reinforcement matting</li> <li>Hydroseeding</li> <li>Shrubs or other permanent plantings covered with mulch</li> <li>Uniform and evenly distributed ground cover sufficient to restrain erosion</li> <li>Structural methods such as concrete, asphalt or retaining walls</li> <li>Roller erosion control products with grass seed</li> </ul>

**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 inlets to 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 effluent.
- 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 unless there is no alternative 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.
- Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.
- 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, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
- 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.

**CONCRETE WASHOUTS**

- Do not discharge concrete or cement slurry from the site.
- Dispose of, or recycle/settle, 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 lot 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 inlets(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 leavings 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 leavings 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.

**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.

**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 or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (note 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-measuring device approved by the Division.
(2) E&S 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 measures. 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (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 outfalls 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 of 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	1. Visible sedimentation is found outside site limits, then a record of the following shall be made: a. Actions taken to clean up or stabilize the sediment that has left the site limits. 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future offsites.
(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	1. If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: a. Description, evidence and date of corrective actions taken, and b. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (f)(1) of this permit. 2. Documentation that the required ground stabilization measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&S 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 timeframes or an assurance that they will be provided as soon as possible.

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

**PART II, SECTION 6, ITEM (4) DRAIN DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT**

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- The E&S plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&S plan authority has approved these items.
- The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit.
- Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include: properly sited, designed and maintained dewatering tanks, wet tanks, and filtration systems.
- Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above.
- Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
- Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

**PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING**

**SECTION B: RECORDKEEPING**

**1. E&S Plan Documentation**

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

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

**3. Documentation to be Retained for Three Years**

All data used to complete the E&S plan 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. 149-215.85.
- 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 Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none"> <li>Within 24 hours, an oral or electronic notification.</li> <li>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.</li> <li>If the stream is named on the NC 303(d) list as impaired for sediment-related causes, 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.</li> </ul>
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	<ul style="list-style-type: none"> <li>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.</li> <li>Within 24 hours, an oral or electronic notification.</li> <li>Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.</li> </ul>
(c) Anticipated bypasses (40 CFR 122.41(n)(3))	<ul style="list-style-type: none"> <li>Within 24 hours, an oral or electronic notification.</li> <li>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)).</li> <li>Division staff may waive the requirement for a written report on a case-by-case basis.</li> </ul>
(d) Unanticipated bypasses (40 CFR 122.41(n)(3))	<ul style="list-style-type: none"> <li>Within 24 hours, an oral or electronic notification.</li> <li>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)).</li> <li>Division staff may waive the requirement for a written report on a case-by-case basis.</li> </ul>
(e) Noncompliance with the conditions of this permit that may endanger health or the environment (40 CFR 122.41(f)(7))	<ul style="list-style-type: none"> <li>Within 24 hours, an oral or electronic notification.</li> <li>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)).</li> <li>Division staff may waive the requirement for a written report on a case-by-case basis.</li> </ul>

**NCG01 GROUND STABILIZATION AND MATERIALS HANDLING**

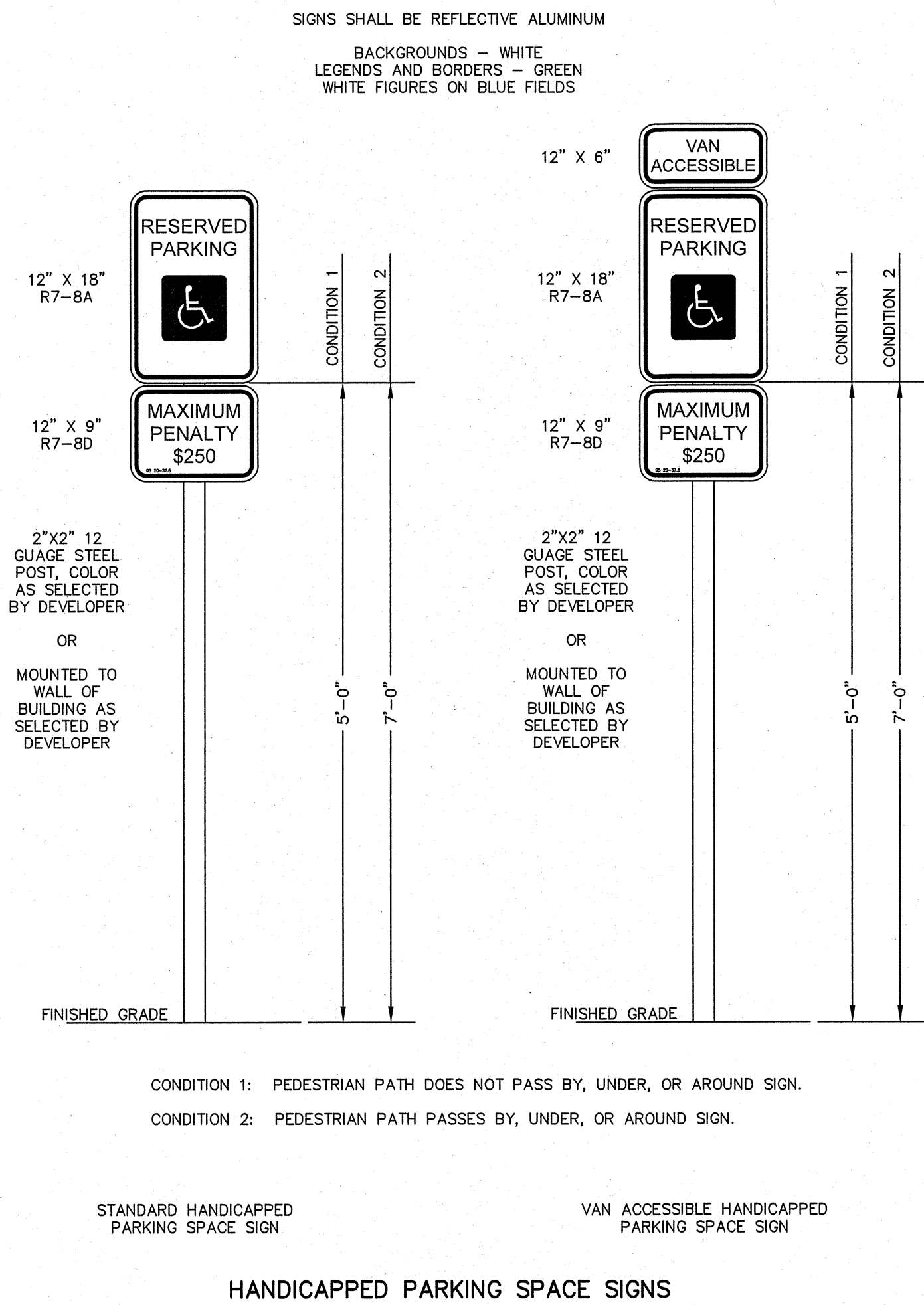
EFFECTIVE: 04/01/19

**NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING**

EFFECTIVE: 04/01/19

**GENERAL PERMIT NCG01 GUIDELINES**

**GENERAL PERMIT NCG01 GUIDELINES**



HANDICAP SIGN

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