LEGAL DESCRIPTION

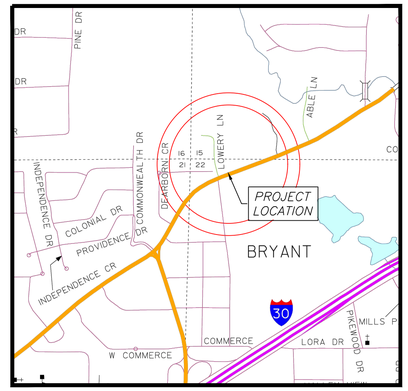
THOSE PORTIONS OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER, SECTION 22, AND THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER, SECTION 15, ALL IN T-1-S, R-14-2, SALINE COUNTY, ARKANSAS, DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHWEST CORNER OF SAID NW ¼ OF NW ¼ OF SECTION 22; THENCE S88°06'16"E, ALONG THE NORTH LINE THEREOF A DISTANCE OF 349.25 FEET A FOUND ½" REBAR (PS #1141)

TO THE **POINT OF BEGINNING** OF HEREIN DESCRIBED TRACT; THENCE LEAVING SAID NORTH LINE, N79°07'03"E, A DISTANCE OF 32.82 FEET TO A FOUND ½" REBAR (PS #1141); THENCE N70°18'03"E, A DISTANCE OF 200.89 FEET TO A FOUND ½" REBAR (PS #1141); THENCE S19°42'53"E, A DISTANCE OF 274.60 FEET TO A FOUND ½" REBAR (PS #1141) ON THE NORTH RIGHT-OF-WAY OF HIGHWAY 5; THENCE ALONG SAID NORTH RIGHT-OF-WAY, S70°15'40"W, A DISTANCE OF 275.04 FEET TO A FOUND ½" REBAR; THENCE S70°18'52"W, A DISTANCE OF 66.65 FEET TO A FOUND ½" REBAR; THENCE LEAVING NORTH RIGHT-OF-WAY LINE, N01°58'40"E, A DISTANCE OF 272.07 FEET TO A PK NAIL IN ASPHALT; THENCE N00°58'25"W, A DISTANCE OF 23.07 FEET TO THE POINT OF BEGINNING. CONTAINING 78,864 SQUARE FEET, OR 1.81 ACRES, MORE OR LESS.

CONSTRUCTION PLANS BRYANT, AR
C-STORE

STANDARD DEVELOPMENT CO, LLC

HIGHWAY 5 NORTH OLD STAGECOACH
CITY OF BRYANT



VICINITY MAP

DRAWING INDEX

SHEET NO.	TITLE
	PLAT
C-1.0	SITE PLAN
C-1.1	N/A
C-1.2	PAVING PLAN
C-2.0	GRADING
C-3.0	UTILITY PLAN
C-3.1	SEWER PLAN & PROFILE
C-3.2	N/A
C-3.3	N/A
C-4.0	TRENCH DETAILS
C-5.0	CIVIL SPECS
C-6.0	DETENTION PLAN
C-6.1	DRAINAGE PLAN
C-6.2	N/A
C-6.3	N/A
C-6.4	N/A
C-6.5	N/A
C-7.0	EROSION CONTROL PLAN
C-8.0	DEMO PLAN
C-8.1	N/A
L-1.0	LANDSCAPE PLAN
C-9.0	LOWERY PROFILE
C-9.2	PARKING LIGHT EXHIBIT

PREPARED BY:

HOPE CONSULTING
ENGINEERS - SURVEYORS

129 N. Main Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

CIVIL ENGINEER
HOPE CONSULTING INC
129 N. MAIN STREET
BENTON, AR 72015
CONTACT: KAZI ISLAM
PHONE: 501.315.2626
EMAIL: kazi@hopeconsulting.com

ARCHITECT
WILLIAMS & DEAN
18 CORPORATE HILL DRIVE #210
LITTLE ROCK, AR 72205
CONTACT: JOHN JOHNSON
PHONE: 501.224.1900
EMAIL: jjohnson@williamsdean.com

GEOTECHNICAL ENGINEER
MATERIALS TESTING OF ARKANSAS
8001 NATIONAL DRIVE
LITTLE ROCK, AR 72209
CONTACT: KELTON PRICE
PHONE: 501.753.2526
EMAIL: keltonp@mtaengineers.com

STRUCTURAL ENGINEER
N/A

ZONING INFORMATION	
CURRENT ZONING	*C-2 (HIGHWAY COMMERCIAL)*
MINIMUM LOT AREA (SF)	*N/A*
MINIMUM LOT WIDTH (FT)	*N/A*
FRONT YARD SETBACK (FT)	*50'*
EXTERIOR SIDE YARD SETBACK (FT)	*NOT REQ UNLESS ABUT ROAD OR RESIDENTIAL LOT LINE THEN 25'*
REAR YARD (NORTH) SETBACK (FT)	*15'*
MAXIMUM HEIGHT (FT)	*45' OR NO MORE THAN3 STORIES*
MAXIMUM LOT COVERAGE	*PRINCIPAL & ACCESSORY BLDG 35% OF THE TOTAL AREA OF THE SITE*

OWNER:
Name: STANDARD DEVELOPMENT CO, LLC
Address: 2917 KAVANAUGH BOULEVARD
LITTLE ROCK, AR 72205

DEVELOPER:
Name: STANDARD DEVELOPMENT CO, LLC
Address: 2917 KAVANAUGH BOULEVARD
LITTLE ROCK, AR 72205

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

FLOODPLAIN CERTIFICATION:

By affixing my seal and signature, I Robert L. Johnston Jr., PLS No. 1626, hereby certify that this drawing correctly depicts a survey compiled under my supervision.

NOTE: This survey was based on legal descriptions and title work furnished by others and does not represent a title search.

According the the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) for Benton County City of Rogers areas, panel # 05125C0240E, dated 06/05/2020, no portion of the property described hereon lies within the 100 year flood hazard boundary.

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www.hopeconsulting.com

FOR USE AND BENEFIT OF:
STANDARD DEVELOPMENT COMPANY, LLC

BRYANT C-STORE
CITY OF BRYANT, SALINE COUNTY, ARKANSAS

DATE:	09-20-2022	C.A.D. BY:		DRAWING NUMBER:				
REVISED:	02/22/2023	CHECKED BY:		21-0275				
SHEET:		SCALE:						
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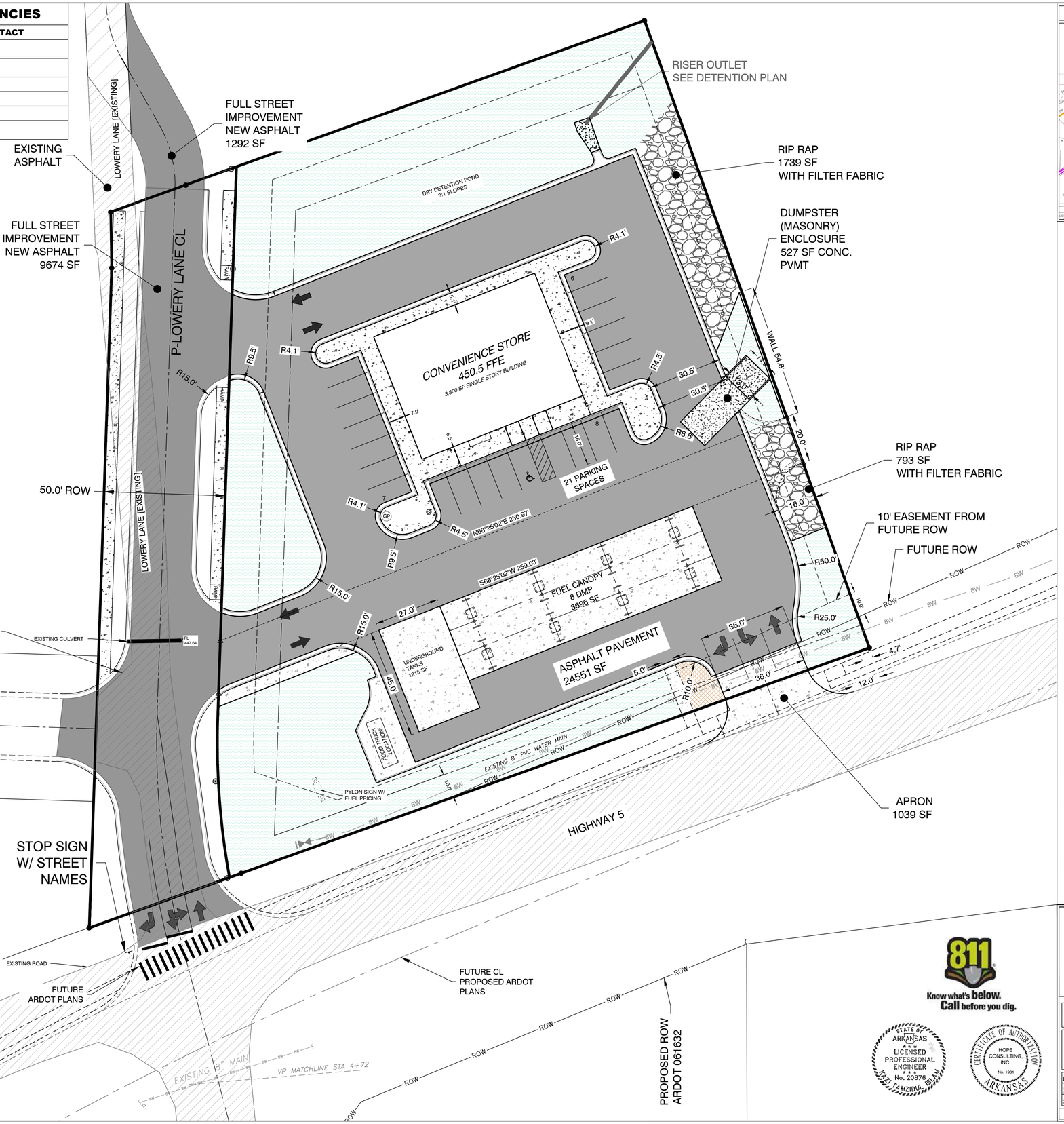
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CONTACTS UTILITIES AND CITY AND STATE AGENCIES

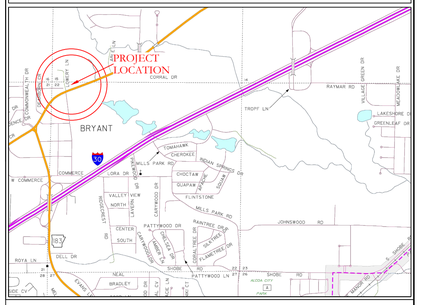
AGENCY	TITLE	NAME	CONTACT
BRYANT PUBLIC WORKS	DIRECTOR	TIM FOURNIER	501-943-0468
BRYANT PUBLIC WORKS	ENGINEER	TED TAYLOR	501-943-0450
BRYANT WATER	INSPECTOR	JOE HENRY	501-246-0516
ENTERGY	CONTACT	JEREMY HENDERSON	800-368-3749
CENTERPOINT (GAS)	CONTACT	ADAM GOBER	501-541-7509
ARDOT	PERMIT OFFICER DISTRICT SIX	CORY SUTTON	501 551-5207

LOWERY LANE IMPROVEMENT NOTES

1. ENTIRE ROW TO BE DEDICATED TO CITY OF BRYANT
2. LOWERY STREET IMPROVEMENT CONSTRUCTION IS A PLANNED PORTION OF THE CONSTRUCTION FOR THIS PROJECT.



VICINITY MAP:



SITE PLAN NOTES

PARKING REQUIREMENTS:

TOTAL: 21 SPACES (16 REQUIRED)
1 HANDICAP (1 REQUIRED)

TOTAL AREA:	78,850	SF
PROPOSED PAVEMENT/ROOF:	55,589	SF
RIP RAP	2,532	SF
PROPOSED GREEN SPACE:	20,729	SF
PROPOSED BUILDING:	3,500	SF

ZONING AND SETBACKS

ZONING:	C2
FRONT	10'
SIDE	NONE (25' FOR RESIDENTIAL NEIGHBORS)
REAR	25' (55 RESIDENTIAL NEIGHBORS)

DISCLAIMER

UTILITIES SHOWN ARE NOTED BY VISIBLE OBSERVATION ONLY. UNDERGROUND UTILITIES ARE APPROXIMATE. NO EXCAVATION HAS TAKEN PLACE AS OF THIS DATE TO DETERMINE THE EXACT LOCATION OF UNDERGROUND UTILITIES SHOWN ON THIS SURVEY

FLOOD STATEMENT

NO PORTION OF THIS PROPERTY IS WITHIN THE 100 YEAR SPECIAL FLOOD HAZARD AREA ACCORDING TO THE FLOOD INSURANCE RATE MAP PANEL #05125C0240E DATED 06-05-2020.

BASIS OF BEARING:
GRID NORTH, ARKANSAS
COORDINATE SYSTEM, SOUTH ZONE BY
GPS OBSERVATION

20' 10' 0 20'

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811 Know what's below. Call before you dig.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 20876
YAZEL JAMZIDUL ISLAM

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

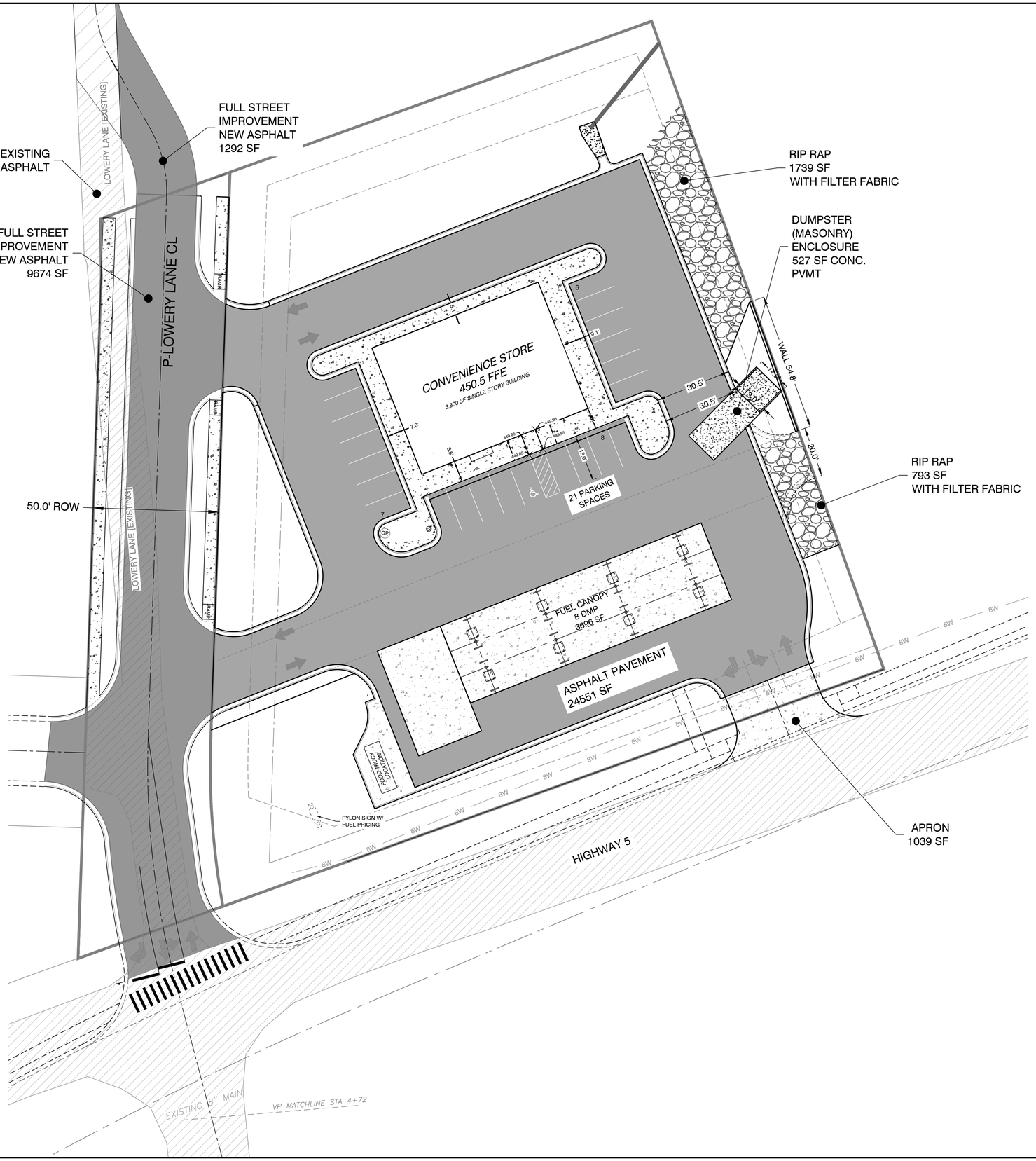
FOR USE AND BENEFIT OF:
STANDARD DEVELOPMENT COMPANY, LLC

BRYANT C-STORE
SITE PLAN
BRYANT, SALINE COUNTY, ARKANSAS

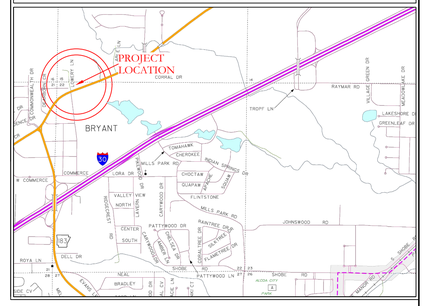
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VICINITY MAP:



PAVEMENT LEGEND

- PROPOSED CONCRETE PAVEMENT
- PROPOSED ASPHALT PAVEMENT
- EXISTING ASPHALT PAVEMENT
- PROPOSED ASPHALT PAVEMENT FUTURE STREET IMPROVEMENTS

Know what's below. Call before you dig.

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 20875 KAZI TAMZIDUL ISLAM

CERTIFICATE OF AUTHORIZATION HOPE CONSULTING, INC. No. 1931 ARKANSAS

DISCLAIMER

UTILITIES SHOWN ARE NOTED BY VISIBLE OBSERVATION ONLY. UNDERGROUND UTILITIES ARE APPROXIMATE. NO EXCAVATION HAS TAKEN PLACE AS OF THIS DATE TO DETERMINE THE EXACT LOCATION OF UNDERGROUND UTILITIES SHOWN ON THIS SURVEY

FLOOD STATEMENT

NO PORTION OF THIS PROPERTY IS WITHIN THE 100 YEAR SPECIAL FLOOD HAZARD AREA ACCORDING TO THE FLOOD INSURANCE RATE MAP PANEL #05125C0240E DATED 06-05-2020.

N

BASIS OF BEARING: GRID NORTH, ARKANSAS COORDINATE SYSTEM, SOUTH ZONE BY GPS OBSERVATION

20' 10' 0 20'

HOPE CONSULTING ENGINEERS - SURVEYORS
129 N. Main Street,
Benton, Arkansas 72015
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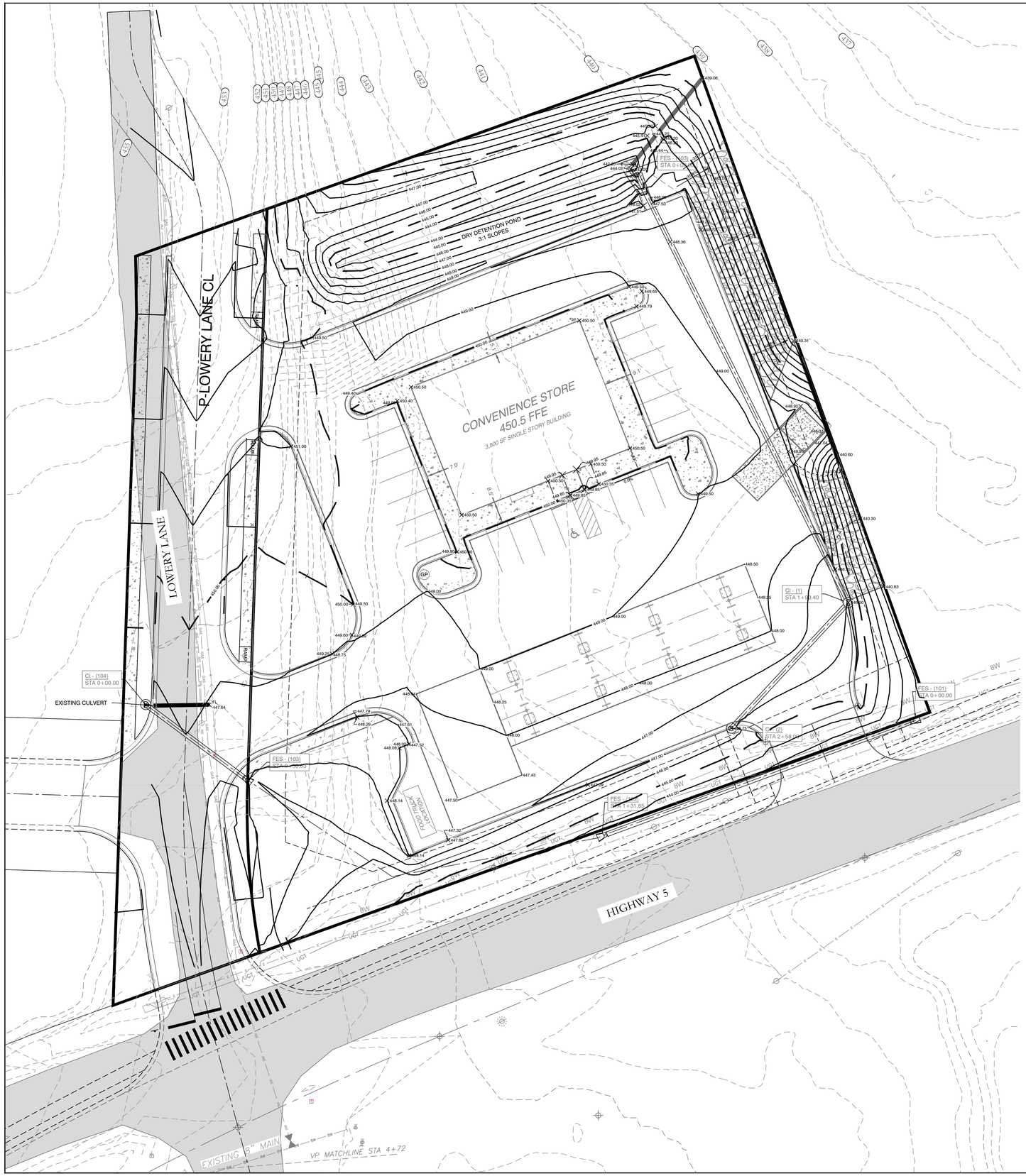
FOR USE AND BENEFIT OF:
STANDARD DEVELOPMENT COMPANY, LLC

BRYANT C-STORE
PAVING PLAN
BRYANT, SALINE COUNTY, ARKANSAS

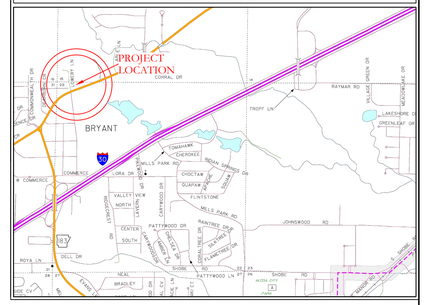
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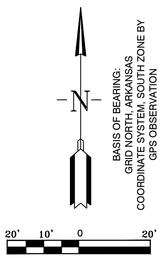


VICINITY MAP:



GRADING PLAN NOTES

1. DESIGN CONTOURS SHOWN ARE FINISHED GRADE.
2. SPOT ELEVATIONS SHOWN ARE FINISHED ASPHALT, GROUND OR CONCRETE ELEVATIONS.
3. CLEAR AND GRUB AREAS OF THE SITE WHERE CUT OR FILL IS TO OCCUR.
4. MAXIMUM SLOPE IN ANY DIRECTION IN ADA PARKING AREA IS 2%. IF SLOPES IN THESE AREAS EXCEED 2%, NOTIFY THE DESIGNER IMMEDIATELY. THE MAXIMUM LONGITUDINAL SLOPE OF SIDEWALKS IS 5% WITH A 2% MAXIMUM CROSS SLOPE.
5. STORM DRAINAGE PIPES ARE TO BE HDPE.
6. FILL SHALL BE COMPACTED TO AT LEAST 98% OF THE MATERIAL'S MAXIMUM STANDARD PROCTOR DRY DENSITY.
7. THE MOISTURE CONTENT OF FILL MATERIAL SHALL BE WITHIN THE RANGE OF 1% BELOW TO 3% ABOVE THE OPTIMUM MOISTURE CONTENT.
8. SUBGRADES SHALL BE PROOF-ROLLED WITH A LOADED DUMP TRUCK TO DETECT ZONES OF UNSUITABLE AND/OR EXCESSIVELY WET SOILS. IF PUMPING BEGINS, COMPACTION SHALL BE STOPPED IMMEDIATELY AND RESUMED ONLY WHEN THE MATERIAL IS SUFFICIENTLY DRY THAT PUMPING DOES NOT OCCUR.
9. ALL UNUSABLE SOILS SHALL BE USED ON SITE FOR FILL PURPOSES OUTSIDE THE AREAS OF BUILDING AND PAVEMENT CONSTRUCTION.
10. PROPER DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE PROJECT SITE TO PREVENT THE INCREASE OF THE IN-SITU SOILS MOISTURE CONTENT.



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FOR USE AND BENEFIT OF:
STANDARD DEVELOPMENT COMPANY, LLC

BRYANT C-STORE
GRADING PLAN
BRYANT, SALINE COUNTY, ARKANSAS

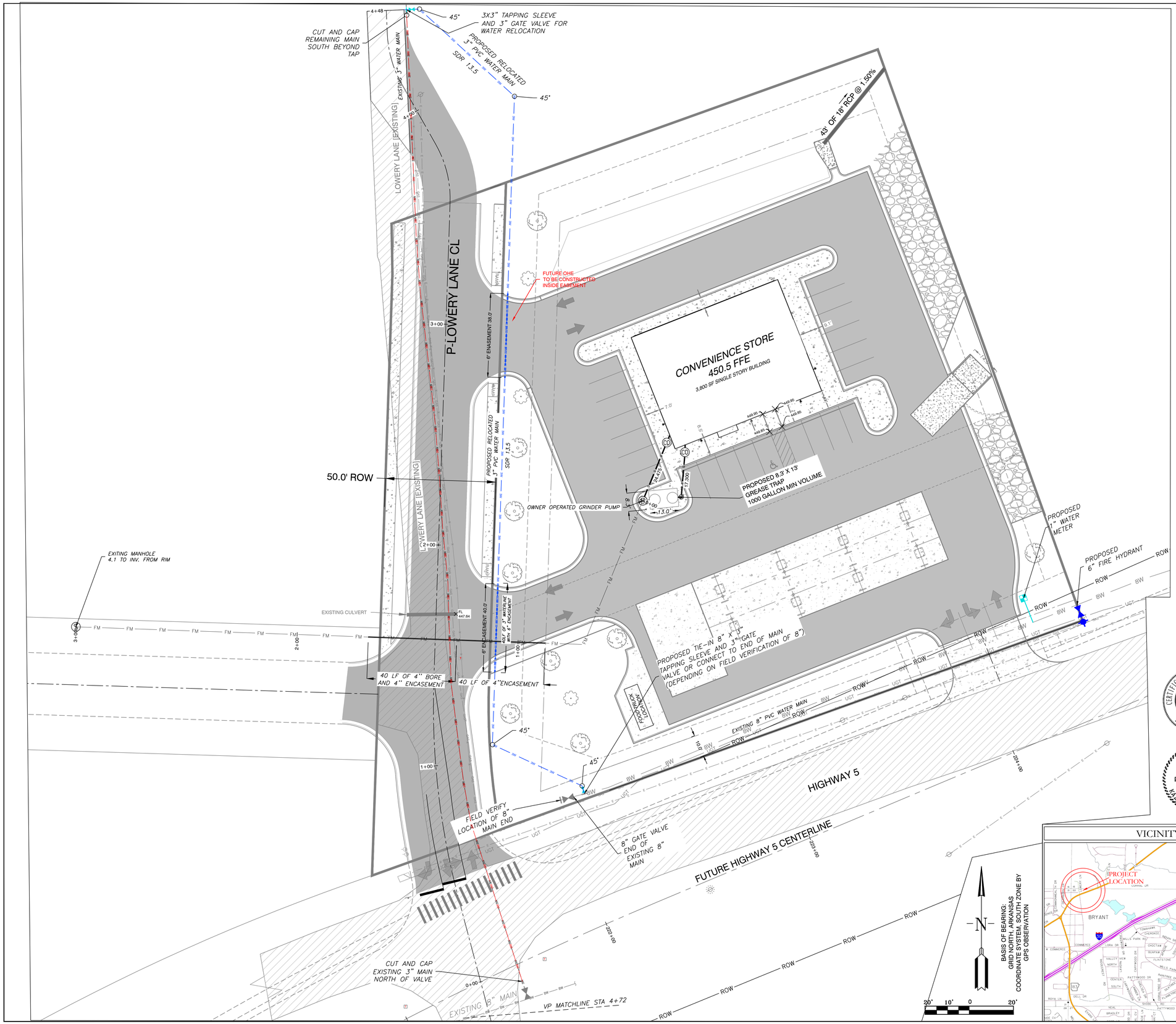
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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 20876
KAZI TAMZIDUL ISLAM

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

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SEWER LEGEND

- SANITARY SEWER MANHOLE PROP.*
- SANITARY SEWER MANHOLE EXIST.
- CLEANOUT
- PROPOSED SEWER SERVICE

SEWER NOTES

1. ALL SEWER INFRASTRUCTURE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF BRYANT "STANDARD SPECIFICATIONS FOR DESIGN AND CONSTRUCTION OF WATER LINES AND SEWER LINES, 2015 EDITION".
2. INFORMATION ON DEPTH OF EXISTING TIE IN MANHOLE AND DOWNSTREAM MH OBTAINED FROM EFS EDGE GIS DATA.
3. 16" BORE AND ENCASEMENT FOR HIGHWAY 5 CROSSING OF 8" MAIN EXTENSION.
4. CASING SPACERS SHALL BE STAINLESS STEEL
5. THERE IS ONE PROPOSED SANITARY SEWER MH

WATER LEGEND

- FIRE HYDRANT
- BLOW OFF
- PROPOSED GATE VALVE
- PROPOSED 1" WATER METER
- PROPOSED WATER MAIN
- 2" PROPOSED WATER SERVICE LINE
- 3" ABANDONED PORTION

WATER NOTES

1. ALL WATER INFRASTRUCTURE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF BRYANT "STANDARD SPECIFICATIONS FOR DESIGN AND CONSTRUCTION OF WATER LINES AND SEWER LINES, 2015 EDITION".
2. CONSTRUCT 3" SDR-13.5 ALONG LOWERY LANE.
3. 6" STEEL ENCASEMENT UNDER DRIVEWAYS ON 3" MAIN
4. CASING SPACERS SHALL BE STAINLESS STEEL.

ELECTRIC/TELECOMMUNICATION NOTES

1. OVERHEAD ELECTRIC UTILITIES AND PHONE/TELECOMMUNICATIONS LINES AFFECTED BY LOWERY LANE CHANGES WILL NEED TO BE RELOCATED IN COOPERATION WITH THE RESPECTIVE UTILITY PROVIDERS.

ONE — PROPOSED OVER HEAD POWER

CERTIFICATE OF AUTHORIZATION ARKANSAS HOPE CONSULTING, INC. No. 1931

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER No. 20876 KAZEM JAMZIDUL ISLAM

VICINITY MAP:

HOPE CONSULTING
ENGINEERS - SURVEYORS
129 N. Main Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
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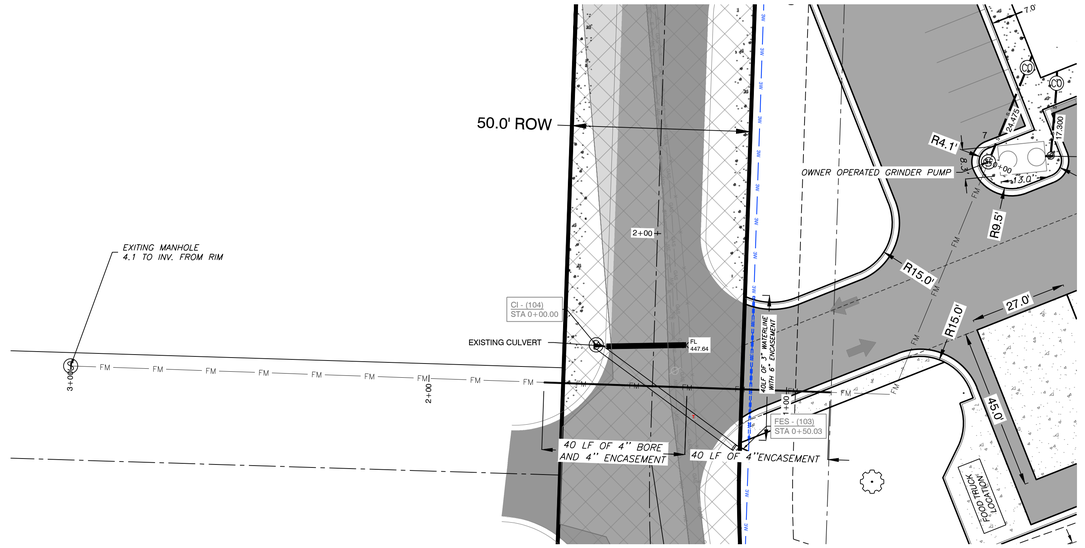
FOR USE AND BENEFIT OF:
STANDARD DEVELOPMENT COMPANY, LLC

BRYANT C-STORE
UTILITY PLAN
BRYANT, SALINE COUNTY, ARKANSAS

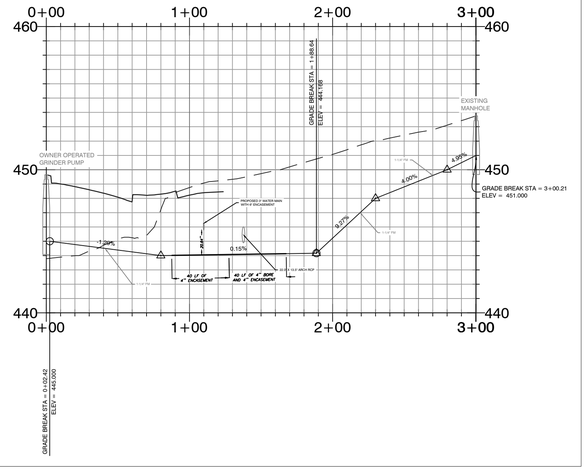
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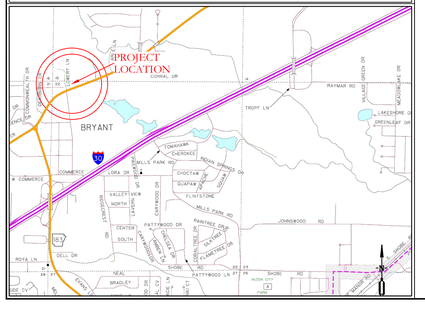
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FORCE MAIN PROFILE



VICINITY MAP:



WATER LEGEND

- FIRE HYDRANT
- BLOW OFF
- PROPOSED GATE VALVE
- PROPOSED WATER METER
- PROPOSED WATER MAIN
- ¾" PROPOSED WATER SERVICE LINE

WATER NOTES

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3. 6" STEEL ENCASEMENT UNDER DRIVEWAYS ON 3" MAIN

SEWER LEGEND

- SANITARY SEWER MANHOLE
- CLEANOUT
- PROPOSED SEWER SERVICE

SEWER NOTES

1. ALL WATER AND SEWER INFRASTRUCTURE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF BRYANT "STANDARD SPECIFICATIONS FOR DESIGN AND CONSTRUCTION OF WATER LINES AND SEWER LINES, 2015 EDITION".
2. INFORMATION ON DEPTH OF EXISTING TIE IN MANHOLE AND DOWNSTREAM MH OBTAINED FROM EFS EDGE GIS DATA.
3. 4" BORE AND ENCASEMENT FOR LOWERY LANE OF 1-1/4" FORCE MAIN.
4. CASING SPACERS SHALL BE STAINLESS STEEL

N

BASIS OF BEARING:
GRID NORTH, ARKANSAS
COORDINATE SYSTEM, SOUTH ZONE BY
GPS OBSERVATION

20' 10' 0 20'

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 20876
KAZI TAMZIDUL ISLAM

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HOPE CONSULTING, INC.
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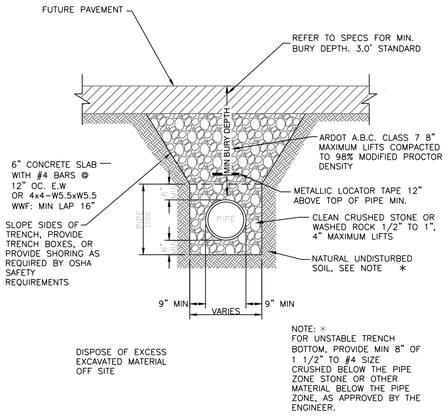
FOR USE AND BENEFIT OF:
STANDARD DEVELOPMENT COMPANY, LLC

BRYANT C-STORE
SEWER UTILITY PLAN
BRYANT, SALINE COUNTY, ARKANSAS

DATE:	9-20-2022	C.A.D. BY:		DRAWING NUMBER:	21-0275
REVISED:	02/23/2023	CHECKED BY:			
SHEET:	C-3.1	SCALE:			

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DISPOSE OF EXCESS EXCAVATED MATERIAL OFF SITE

NOTE: * FOR UNSTABLE TRENCH BOTTOM, PROVIDE MIN 8" OF 1 1/2" TO #4 SIZE CRUSHED BELOW THE PIPE ZONE STONE OR OTHER MATERIAL BELOW THE PIPE ZONE, AS APPROVED BY THE ENGINEER.

PVC SEWER TRENCH UNDER FUTURE ASPHALT STREET

N.T.S.

SOIL STABILIZATION REQUIREMENTS:

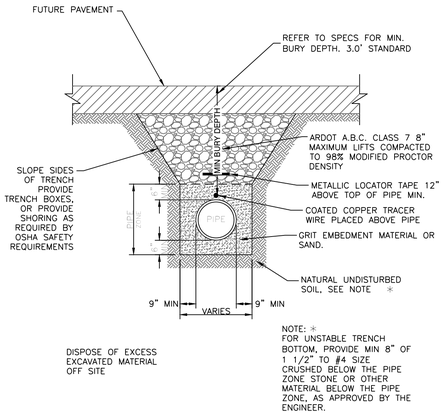
1. IN LAWN AREAS, DISTURBED SOIL SHALL BE STABILIZED BY PLACEMENT OF SOD TO MATCH EXISTING.
2. IN FIELDS OR WOODED AREAS, DISTURBED SOIL SHALL BE STABILIZED BY SEEDING.

DISPOSE OF EXCESS EXCAVATED MATERIAL OFF SITE

NOTE: * FOR UNSTABLE TRENCH BOTTOM, PROVIDE MIN 8" OF 1 1/2" TO #4 SIZE CRUSHED BELOW THE PIPE ZONE STONE OR OTHER MATERIAL BELOW THE PIPE ZONE, AS APPROVED BY THE ENGINEER.

PVC SEWER TRENCH IN UNPAVED AREAS

N.T.S.



DISPOSE OF EXCESS EXCAVATED MATERIAL OFF SITE

NOTE: * FOR UNSTABLE TRENCH BOTTOM, PROVIDE MIN 8" OF 1 1/2" TO #4 SIZE CRUSHED BELOW THE PIPE ZONE STONE OR OTHER MATERIAL BELOW THE PIPE ZONE, AS APPROVED BY THE ENGINEER.

PVC WATER LINE TRENCH UNDER FUTURE ASPHALT STREET

N.T.S.

SOIL STABILIZATION REQUIREMENTS:

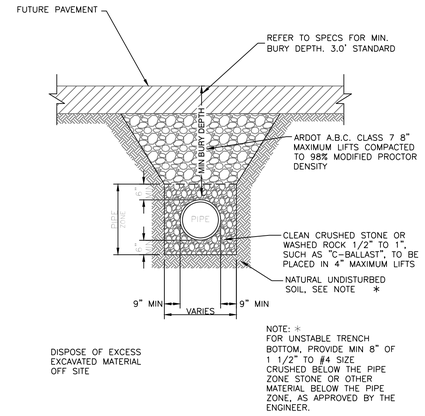
1. IN LAWN AREAS, DISTURBED SOIL SHALL BE STABILIZED BY PLACEMENT OF SOD TO MATCH EXISTING.
2. IN FIELDS OR WOODED AREAS, DISTURBED SOIL SHALL BE STABILIZED BY SEEDING.

DISPOSE OF EXCESS EXCAVATED MATERIAL OFF SITE

NOTE: * FOR UNSTABLE TRENCH BOTTOM, PROVIDE MIN 8" OF 1 1/2" TO #4 SIZE CRUSHED BELOW THE PIPE ZONE STONE OR OTHER MATERIAL BELOW THE PIPE ZONE, AS APPROVED BY THE ENGINEER.

PVC WATER LINE TRENCH IN UNPAVED AREAS

N.T.S.



DISPOSE OF EXCESS EXCAVATED MATERIAL OFF SITE

NOTE: * FOR UNSTABLE TRENCH BOTTOM, PROVIDE MIN 8" OF 1 1/2" TO #4 SIZE CRUSHED BELOW THE PIPE ZONE STONE OR OTHER MATERIAL BELOW THE PIPE ZONE, AS APPROVED BY THE ENGINEER.

DRAINAGE PIPE TRENCH UNDER FUTURE ASPHALT STREET

N.T.S.

SOIL STABILIZATION REQUIREMENTS:

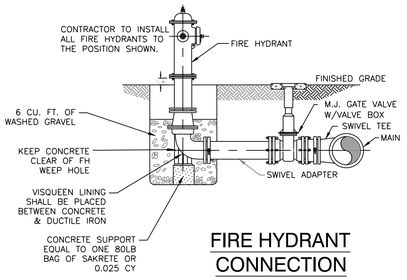
1. IN LAWN AREAS, DISTURBED SOIL SHALL BE STABILIZED BY PLACEMENT OF SOD TO MATCH EXISTING.
2. IN FIELDS OR WOODED AREAS, DISTURBED SOIL SHALL BE STABILIZED BY SEEDING.

DISPOSE OF EXCESS EXCAVATED MATERIAL OFF SITE

NOTE: * FOR UNSTABLE TRENCH BOTTOM, PROVIDE MIN 8" OF 1 1/2" TO #4 SIZE CRUSHED BELOW THE PIPE ZONE STONE OR OTHER MATERIAL BELOW THE PIPE ZONE, AS APPROVED BY THE ENGINEER.

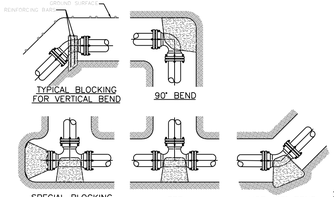
DRAINAGE PIPES IN UNPAVED AREAS

N.T.S.



FIRE HYDRANT CONNECTION

NTS



VOLUME OF THRUST BLOCK IN CUBIC YARDS (VERTICAL BENDS) FOR 150 P.S.I. TEST PRESSURE

FITTING SIZE	BEND ANGLE		
	45°	22 1/2°	11 1/4°
4	0.4	0.2	0.1
6	0.8	0.4	0.2
8	1.4	0.7	0.4
10	2.2	1.1	0.6
12	3.2	1.6	0.8
14	4.4	2.2	1.1
16	5.7	2.9	1.5
18	7.2	3.7	1.8
20	8.9	4.5	2.3
24	12.8	6.5	3.3

THRUST BLOCK NOTES:

1. KEEP CONCRETE CLEAR OF JOINT ACCESSORIES.
2. CONCRETE THRUST BLOCKING SHALL BE POURED AGAINST UNDISTURBED EARTH.
3. REQUIRED VOLUMES OF BEARING AREAS AT FITTINGS SHALL BE AS INDICATED IN THE TABLES PROVIDED AND ADJUSTED, IF NECESSARY, TO CONFORM TO THE TEST PRESSURE(S) STATED IN THE SPECIFICATIONS, AND ALLOWABLE SOIL BEARING STRESS(ES) STATED IN THE SPECIFICATIONS.
4. THRUST BLOCK VOLUMES FOR VERTICAL BENDS HAVING UPWARD RESULTANT THRUSTS ARE BASED ON TEST PRESSURE OF 150 PSIG AND THE WEIGHT OF CONCRETE (4,050 LB/CY). TO COMPUTE VOLUMES FOR DIFFERENT TEST PRESSURES, USE THE FOLLOWING EQUATION: VOLUME = (TEST PRESSURE / 150) X (TABLE VALUE).
5. BEARING AREAS FOR HORIZONTAL BEND THRUST BLOCKS ARE BASED ON TEST PRESSURE OF 150 PSIG AND AN ALLOWABLE SOIL BEARING STRESS OF 2,000 LB/SF. TO COMPUTE BEARING STRESSES, USE THE FOLLOWING EQUATION: BEARING AREA = (TEST PRESSURE / 150) X (2,000 / SOIL BEARING STRESS) X (TABLE VALUE).
6. THRUST BLOCKS FOR VERTICAL BENDS HAVING DOWNWARD RESULTANT THRUST SHALL BE THE SAME AS FOR HORIZONTAL BENDS.
7. BEARING AREAS, VOLUMES, AND SPECIAL BLOCKING DETAILS SHOWN ON PLANS TAKE PRECEDENCE OVER THIS STANDARD.
8. BEARING AREA OF THRUST BLOCK SHALL NOT BE LESS THAN 1.0 SF.
9. VERTICAL BENDS THAT REQUIRE A THRUST BLOCK VOLUME EXCEEDING 5 CY REQUIRE SPECIAL BLOCKING DETAILS. SEE PLANS.

TYPICAL BLOCKING DETAILS

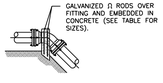
N.T.S.

BEARING AREA OF THRUST BLOCKS IN SQ. FT (HORIZONTAL BENDS) FOR 150 P.S.I. TEST PRESSURE

FITTING SIZE	TEE, WYE, PLUG OR CAP	90° BEND, PLUGGED CROSS	TEE PLUGGED ON RUN		BEND ANGLE		
			A1	A2	45°	22 1/2°	11 1/4
4	1.0	1.4	1.0	1.4	1.0	–	–
6	2.1	3.0	2.1	3.0	1.6	1.0	–
8	3.8	5.3	3.8	5.4	2.9	1.5	1.0
10	5.9	8.4	5.9	8.4	4.6	2.4	1.2
12	8.5	12.0	8.5	12.0	6.6	3.4	1.7
14	11.5	16.3	11.5	16.3	8.9	4.6	2.3
16	15.0	21.3	15.0	21.3	11.6	6.0	3.0
18	19.0	27.0	19.0	27.0	14.6	7.6	3.8
20	23.5	33.3	23.5	33.3	18.1	9.4	4.7
24	34.0	48.0	34.0	48.0	26.2	13.6	6.8

VOLUME OF THRUST BLOCK IN CUBIC YARDS (VERTICAL BENDS) FOR 150 P.S.I. TEST PRESSURE

FITTING SIZE	BEND ANGLE		
	45°	22 1/2°	11 1/4°
4	0.4	0.2	0.1
6	0.8	0.4	0.2
8	1.4	0.7	
10	2.2	1.1	0.6
12	3.2	1.6	0.8
14	4.4	2.2	1.1
16	5.7	2.9	1.5
18	7.2	3.7	1.8
20	8.9	4.5	2.3
24	12.8	6.5	3.3



FITTING SIZES	ROD SIZES	EMBEDMENT
12" AND LESS	#6's	30"
14" – 24"	#8's	36"

WATER MAIN CONNECTION DETAIL

N.T.S.

2" BLOW-OFF RISER

N.T.S.

DETAIL-VALVE BOX

N.T.S.

HOPE CONSULTING
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www.hopeconsulting.com

FOR USE AND BENEFIT OF:
STANDARD DEVELOPMENT COMPANY, LLC

BRYANT C-STORE
TRENCH DETAILS
BRYANT, SALINE COUNTY, ARKANSAS

DATE:	9-20-2022	C.A.D. BY:	DRAWING NUMBER:
REVISED:	01/05/2023	CHECKED BY:	21-0275
SHEET:	C-4.0	SCALE:	

500	01S	14W	0	15/22	304	62	1762

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SUBGRADE MATERIAL

A. Subgrade soils shall be all materials used for subgrade including in-situ materials and fill materials.
B. Subrades for pavement shall be stabilized by mechanical compaction. Stabilization methods such as fabrics and chemical stabilization may be submitted for approval when supported by engineering data and calculations to substantiate the adequacy of the stabilized procedure.
C. Subgrade shall be compacted to 95 percent modified proctor density minimum. Moisture content shall be +/- 3% of optimum moisture unless otherwise supported by the site specific geotechnical data and approved by City.
D. Subgrade shall be prepared in such a manner that the base course shall be placed on a firm foundation that is stable and free from soft spots, pumping, dust pockets, wheel ruts, or other defects.
E. The top 24 inches of the subgrade shall be a material not susceptible to frost action unless modified with cement, lime or another method approved specifically by the City to resist frost action. Soils classified as A-4 and A-5 including sandy silts, fine silty sand or lean clays are highly susceptible to frost action.
F. In-situ soils meeting the requirements outlined in these specifications may be utilized as subgrade material. In-situ soils used as subgrade shall be scarified to a minimum depth of 8-inches below finish subgrade, recompacted and tested as described below. Fill material for subgrade shall be placed in lifts not to exceed 8-inches compacted depth.
G. Methods and procedures for establishing the total depth of soil replacement and/or modification shall be as specified by the design engineer and geotechnical investigations. The adequacy of in-situ soils and fill materials as pavement subgrade shall be evaluated based upon the soils classification, liquid limit, and plasticity index.
H. Soils with a liquid limit greater than 40, or a plasticity index greater than 15 shall be undercut and removed from the street section or improved by a design method of stabilization approved by the City.
I. Quality control testing shall be as specified below.
J. Undercut 24" of soil below finished street base course. Proof roll to verify stability.
K. Backfill the undercut subgrade with Class 7 aggregate or soil meeting the requirements of this section and compact in lifts not exceeding 8".

BASE COURSE

A. Base course material shall be crushed stone meeting the requirements of ArDOT Class 7 aggregate base course as specified in the latest edition of ArDOT Standard Specifications.
B. Base course shall be compacted to 98 percent modified proctor density minimum. Moisture content shall be +/- 3% of optimum moisture.

SURFACE COURSE

A. Surface course for flexible pavement designs shall utilize plant mix bituminous base and binder courses conforming to ArDOT Standard Specifications.

CURB AND GUTTER

A. Curb and gutter shall be Portland Cement Concrete with a minimum 28-day compressive strength of 4,000 psi. Concrete shall be air-entrained with a maximum of 4-inch slump.
B. Compaction requirements under curb and gutter shall conform to the requirements for street subgrade materials. Compaction requirements shall extend to a minimum of 1 foot beyond the back of curb and gutter removing all soft spots and replacing with suitable material.
C. Curb and gutter shall conform to the typical detail within these specifications or ArDOT Standard Roadway Drawing Details for curbing.
D. Expansion joints shall be made with 1/2-inch preformed expansion joint filler of a non-extruding type. Expansion joints shall be placed at intervals not exceeding 195 feet, intersection radii, driveways, stationary structures, and sidewalks.
E. Contraction joints shall be sawed or formed at intervals not greater than 20 feet. Depth of saw-cut hall be 1 1/2-inch and have a width of 1/4-inch. Contraction joints shall be sealed in accordance with ArDOT Standard Specifications.
F. Forms shall be made of metal or wood and shall be properly braced. The minimum length of each section of form used shall be 10 feet. Each section of form shall be uniform and free from undesirable bends or warps. Forms shall be of such cross section and strength and so secured as to resist the pressure of the impact and vibration on any equipment which they support without springing or settlement.
G. Curb and gutter placed with slip form or extruding equipment will be acceptable providing it complies with all of the above requirements.
H. After curing, the curb shall be immediately backfilled to within 4 inches of the top curb to eliminate the possibility of washing beneath the curb. The remaining 4 inches shall be topsoil.
I. Cold weather protection shall meet the requirements of the latest edition of ArDOT Standard Specifications.

SIDEWALKS

General

A. Sidewalks shall be Portland Cement Concrete with a minimum 28-day compressive strength of 4,000 psi.
B. Sidewalks shall be on both sides of streets in line with sidewalks on opposite corners of roads.
C. All sidewalks including ramps shall meet all current Federal Americans with Disabilities (ADA) design guidelines or requirements.
D. Traverse slopes shall not exceed 2 percent.
E. Subgrade under sidewalks shall be compacted to 90 percent modified proctor density minimum.
F. Sidewalks shall not be placed upon grassy or organic materials.
G. Sidewalks which extend or link existing sidewalks shall adjoin the existing sidewalks to form a continuous, even pathway.
H. Utility poles, utility boxes, mailboxes, fire hydrants, and other similar obstructions shall not be located in sidewalks Sidewalk location may vary at the discretion of the City to avoid such obstacles.

Minimum thickness and reinforcement

A. Sidewalks shall have a minimum thickness of 4 inches.
B. Sidewalks shall be reinforced, at a minimum, with woven wire fabric reinforcement.

Contraction and expansion joints

A. Contraction joints shall be provided perpendicular to the sidewalk at intervals equal to the sidewalk width.
B. Expansion joints shall be constructed perpendicular to the sidewalk at intervals equal to five times the sidewalk width. Expansion joints shall be made with 1/2-inch preformed expansion joint filler of a non-extruding type. Expansion joints shall be placed at driveways, drop inlets, and curbs.

Quality control testing and inspection by the City

A. Subgrade and formwork for sidewalks shall be inspected by the City prior to pouring of the sidewalk.
B. All testing of materials and construction shall be provided and paid for by the Developer/Owner.
C. All field tests required for a project shall be witnessed by the City, contractor, or their authorized representatives.
D. All testing shall be accomplished by a testing firm approved by the City and shall be performed under the supervision of a licensed Professional Engineer.
E. Sampling and testing locations shall be subject to approval by the City.
F. Density tests on subgrades shall be taken every 300 feet or portion thereof.
G. The City shall be notified at least one day in advance of the need to inspect subgrade and formwork of sidewalks.

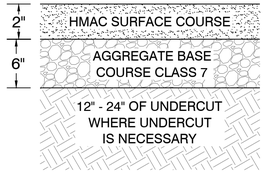
Subgrade

A. Subgrade soils shall be all materials used for subgrade including in-situ materials and fill materials.
B. Subgrade shall be compacted to 90 percent modified proctor density minimum. Moisture content shall be +/- 3% of optimum moisture unless otherwise supported by the site specific geotechnical data and approved by City.
C. Subgrade shall be prepared in such a manner that the base course shall be placed on a firm foundation that is stable and free from soft spots, pumping, dust pockets, wheel ruts, or other defects.
D. The top 24 inches of the subgrade shall be a material not susceptible to frost action unless modified with cement, lime or another method approved specifically by the City to resist frost action. Soils classified as A-4 and A-5 including sandy silts, fine silty sand or lean clays are highly susceptible to frost action.

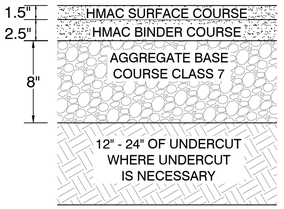
QUALITY CONTROL TESTING AND INSPECTIONS

General

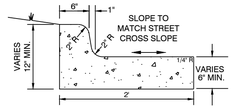
A. Materials and construction employed in street improvements shall be subject to inspection and quality control testing. All testing of materials and construction shall be provided and paid for by the Developer/Owner.
B. The Developer/Owner shall provide for inspections of street improvements during construction. The inspections shall be accomplished under the supervision of the Engineer of Record. The Engineer of Record shall provide certification that all materials and construction conform to the approved plans and specifications and with these minimum street standards.
C. The Engineer of Record shall furnish inspection whenever a critical construction activity is taking place. This means that a representative of the Engineer of Record must be on-site whenever a critical construction activity is taking place.
D. All field tests required for a project shall be witnessed by the City, Engineer of Record, contractor, or other authorized representatives.
E. The City shall be notified at least one day in advance of any test(s). It is the responsibility of the contractor to coordinated the scheduling of all tests with the City.



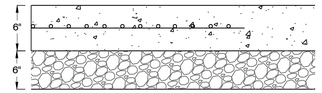
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NOT TO SCALE



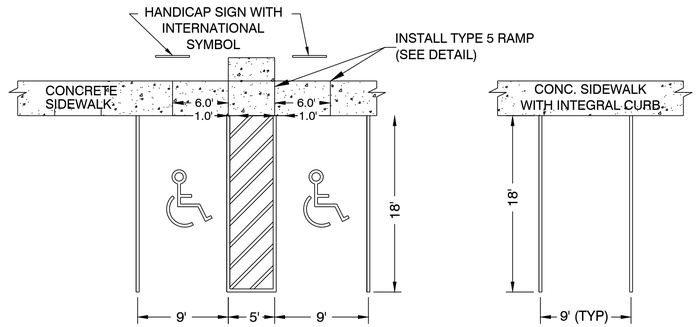
HEAVY PAVEMENT SECTION
NOT TO SCALE



TYPICAL CURB AND GUTTER DETAILS
4,000 PSI CONCRETE
NOT TO SCALE



CONCRETE PAVEMENT SECTION DETAIL
4,000 PSI
NOT TO SCALE



USE DIMENSIONS ABOVE UNLESS OTHERWISE NOTED

10' FOR END STALLS

PARKING STALL & SIDEWALK DETAIL
NOT TO SCALE

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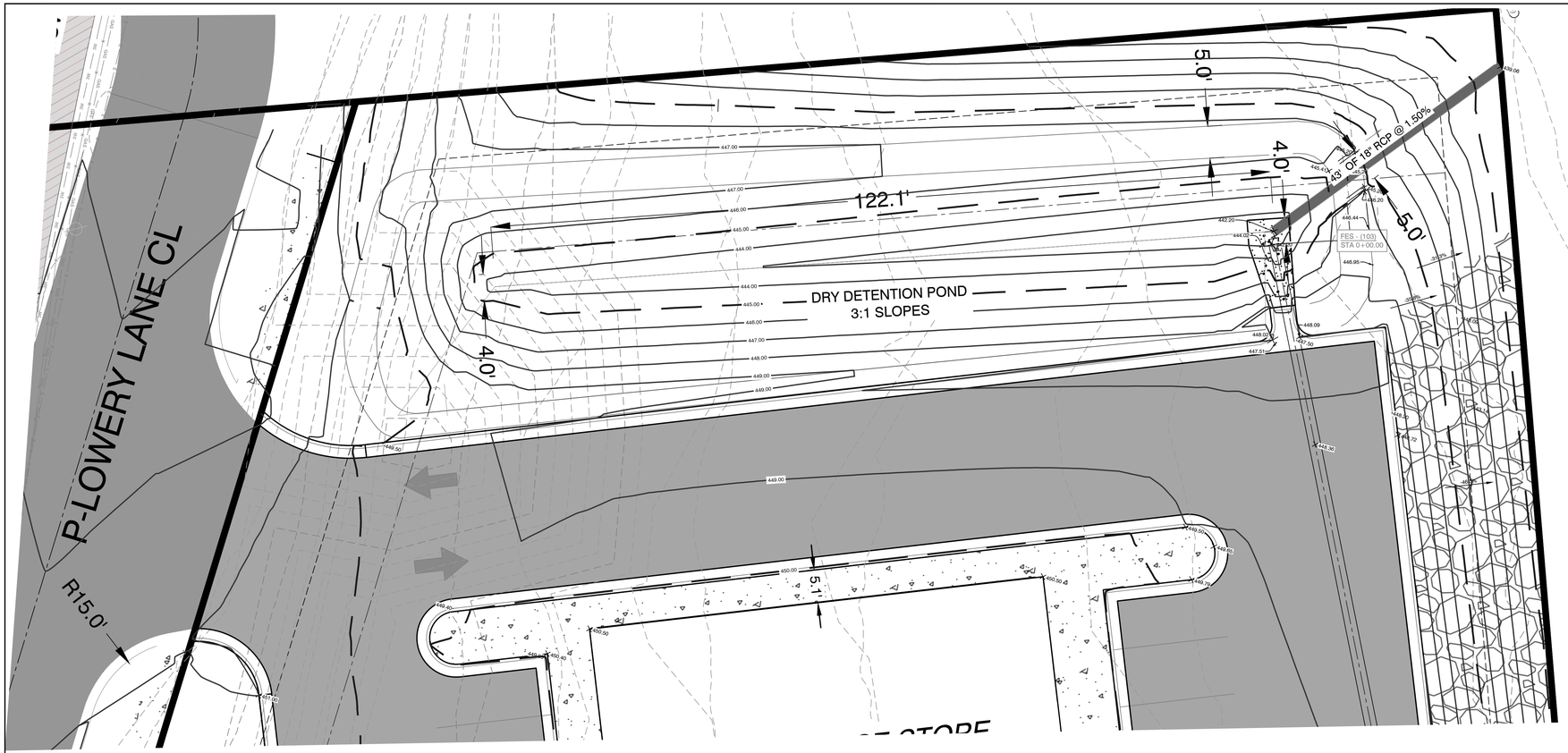
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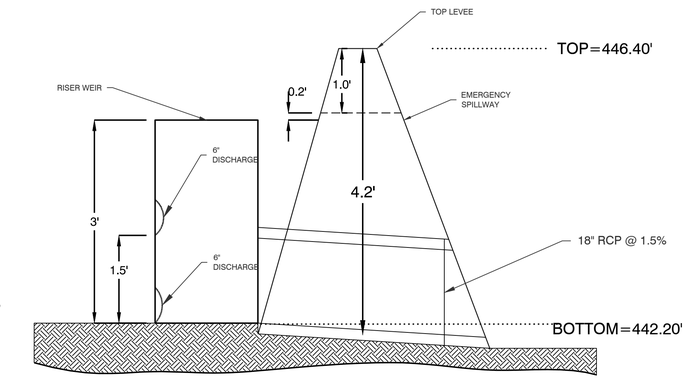
BRYANT C-STORE
CIVIL SPECS
BRYANT, SALINE COUNTY, ARKANSAS

DATE:	9-20-2022	C.A.D. BY:	DRAWING NUMBER:
REVISED:	01/05/2022	CHECKED BY:	21-0275
SHEET:	C-5.0	SCALE:	

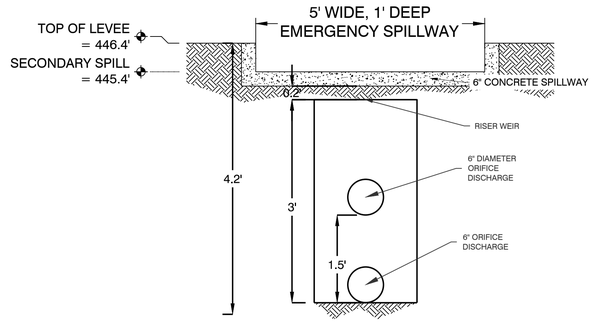
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SPILLWAY PROFILE VIEW
NTS



SPILLWAY END VIEW
NTS

DETENTION POND MAINTENANCE PLAN

Background
The detention pond is located along the north boundary of the property. The modifications are designed to temporarily detain stormwater to meet the City of Bryant's water quantity criteria before discharging from the pond.

Routine Maintenance
Routine maintenance will include but not be limited to:
-The primary discharge (1 HDPE Pipe) from the pond and other areas will be inspected monthly for debris which could inhibit the proper flow of discharge. Any debris will be removed immediately and disposed of or placed in a location to prevent future maintenance and to not cause impact up or downstream of the structure.
-Trash will be removed from around the pond to prevent entering the pond. Generally, the site should be kept free of loose trash which could be carried off site by wind or rain.
-Inspect the pond and discharge weir for non-routine maintenance need.

Periodic or Non-Routine Maintenance
The routine inspection of the pond area and discharge weir will identify needed repairs and non-routine maintenance. These items may include but not be limited to:
-Bottom of pond will be sodded (except where trickle channel is located).
-Embankments sloped 2:1 will be concrete stabilized, 3:1 slopes shall be sodded
-Re-growth of trees on or around the pond bank shall be cut and removed from the pond area.
-Stabilization of slopes may be required periodically or after excessive rain events. Any disturbance of slopes should be reseeded or may require installation of erosion control materials until seeding can reestablish adequate grasses to prevent future erosion.
-Any other maintenance or repairs which would minimize other maintenance to the pond or outfall structures.

For questions or concerns about the pond, contact ___ at 501-___-____.

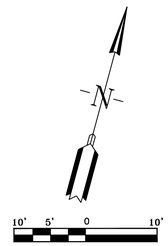
EARTHEN SLOPE NOTE:
ALL EARTHEN DETENTION POND SLOPES ON BOTH THE INTERIOR AND EXTERIOR OF THE POND SHALL HAVE A MAXIMUM SLOPE OF 3:1.

NOTE:
1. DETENTION POND WILL BE REQUIRED TO BE STABILIZED WITH SOLID SOD STABILIZATION PER THE STORM WATER MANAGEMENT MANUAL.

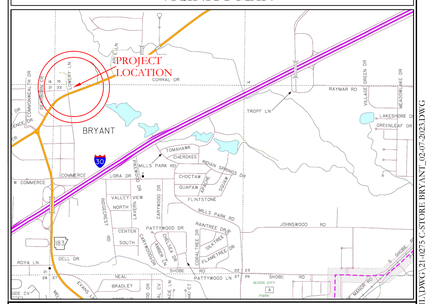
2. DETENTION POND WILL HAVE A 5' WIDE LEVEE.

3. DRAINAGE DITCH LEADING TO NEW DETENTION POND WILL REQUIRE SOLID SOD STABILIZATION PER THE STORM WATER MANAGEMENT MANUAL.

4. DETENTION POND WILL REQUIRE CONCRETE TRICKLE CHANNELS.



VICINITY MAP:



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BRYANT C-STORE
DETENTION PLAN
BRYANT, SALINE COUNTY, ARKANSAS

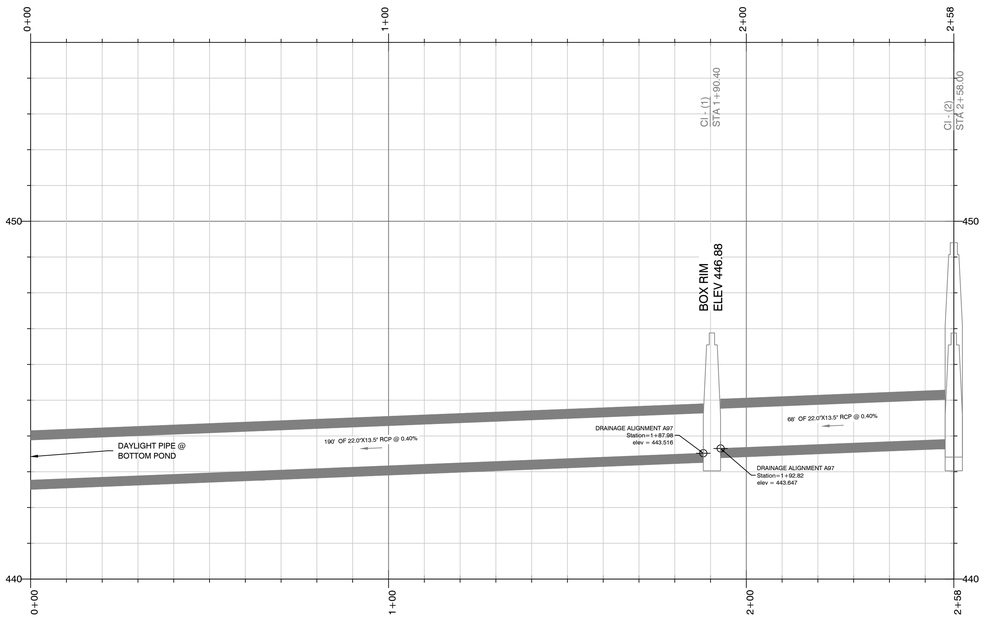
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REVISED:	02/23/2023	CHECKED BY:			
SHEET:	C-6.0	SCALE:			

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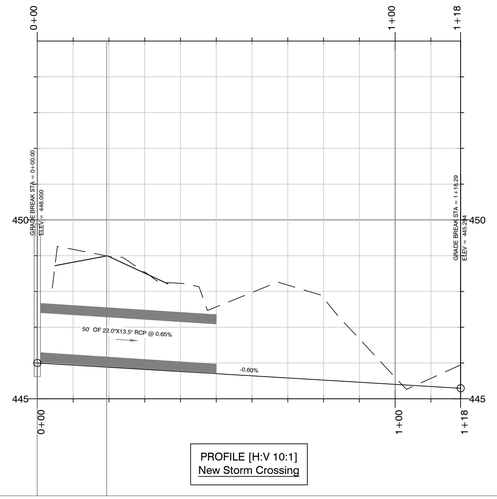
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 20876
KAZI TAMZIDUL ISLAM

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

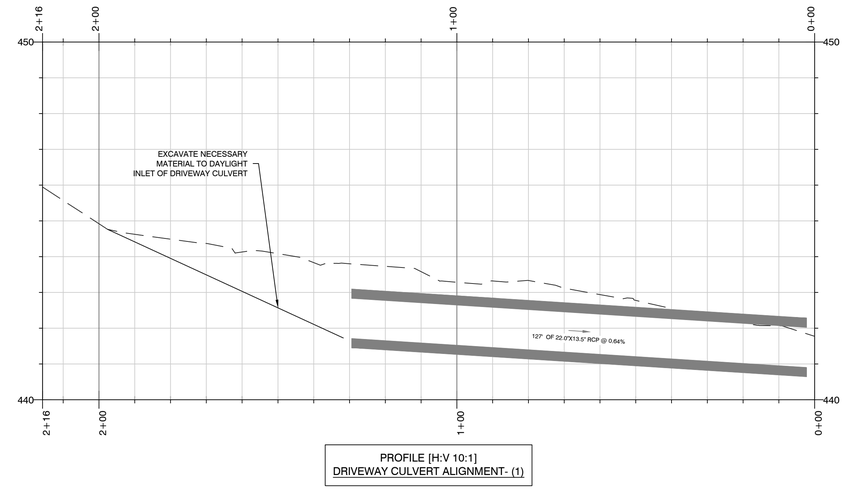
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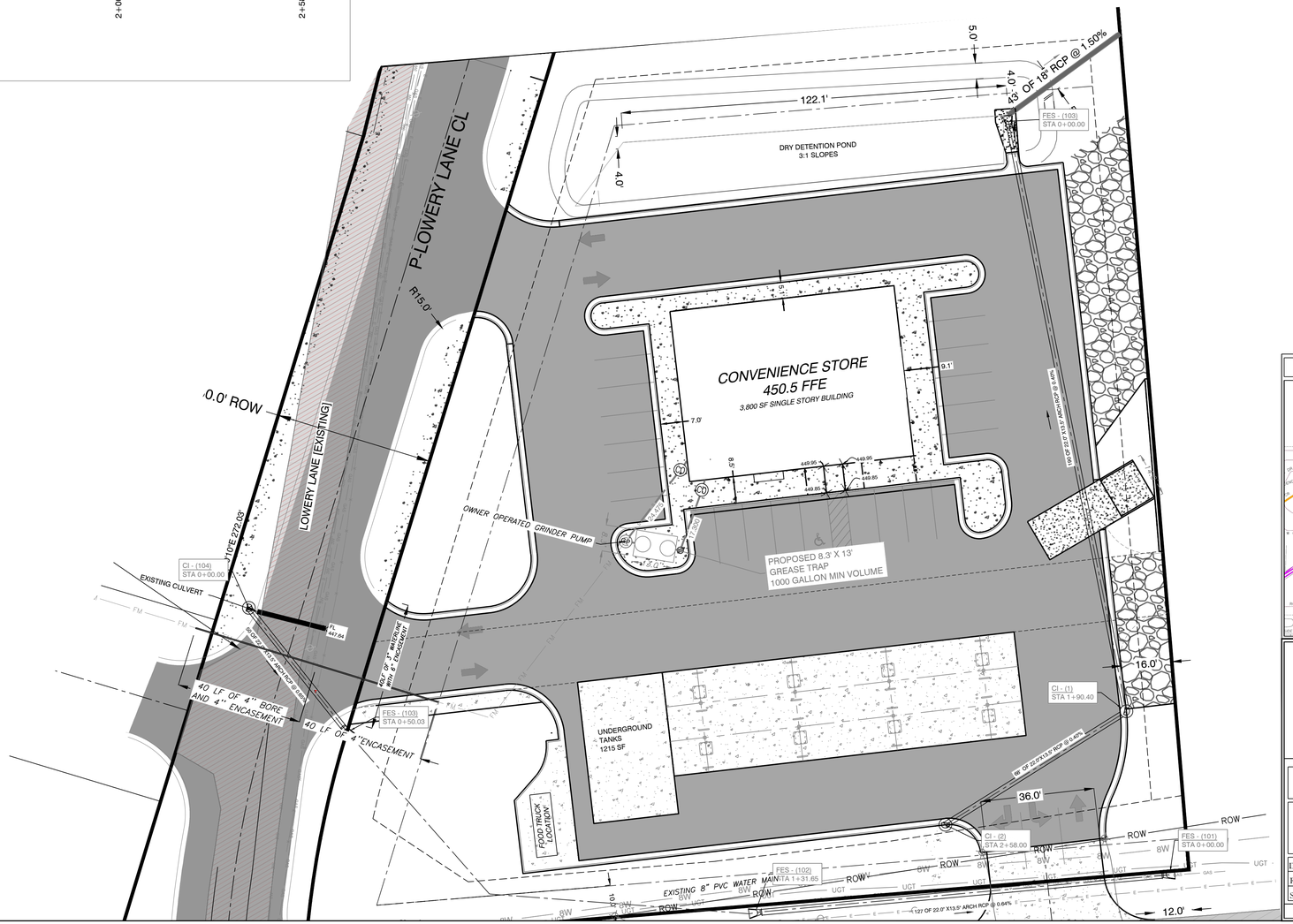
PROFILE [H:V 10:1]
DRAINAGE ALIGNMENT A (1)

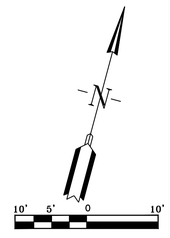


PROFILE [H:V 10:1]
New Storm Crossing

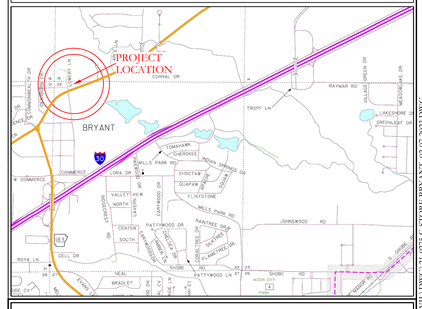


PROFILE [H:V 10:1]
DRIVEWAY CULVERT ALIGNMENT- (1)





VICINITY MAP:



HOPE CONSULTING
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129 N. Main Street,
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FOR USE AND BENEFIT OF:
STANDARD DEVELOPMENT COMPANY, LLC

BRYANT C-STORE
DRAINAGE PLAN
BRYANT, SALINE COUNTY, ARKANSAS

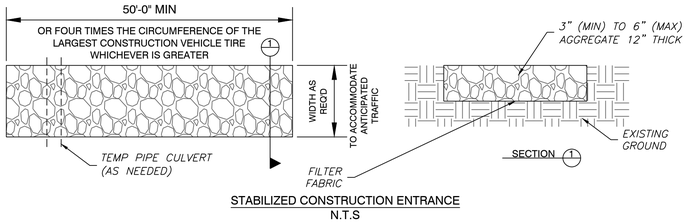
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REVISED:	02/23/2023	CHECKED BY:			
SHEET:	C-6.1	SCALE:			

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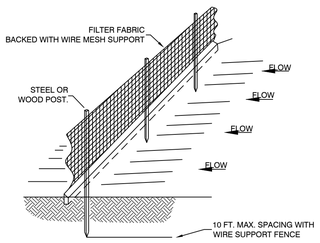
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 20876
KAZI TAMZIDUL ISLAM

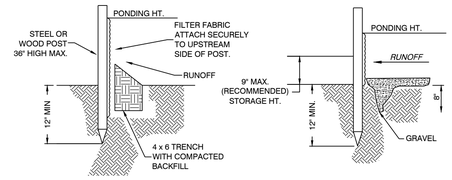
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HOPE CONSULTING, INC.
No. 1931
ARKANSAS

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STABILIZED CONSTRUCTION ENTRANCE
N.T.S



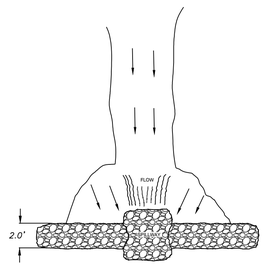


NOTE:
1.) INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.

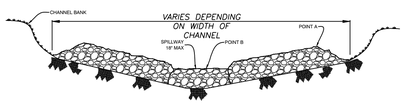
2.) REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

3.) SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

SILT FENCE



PLAN



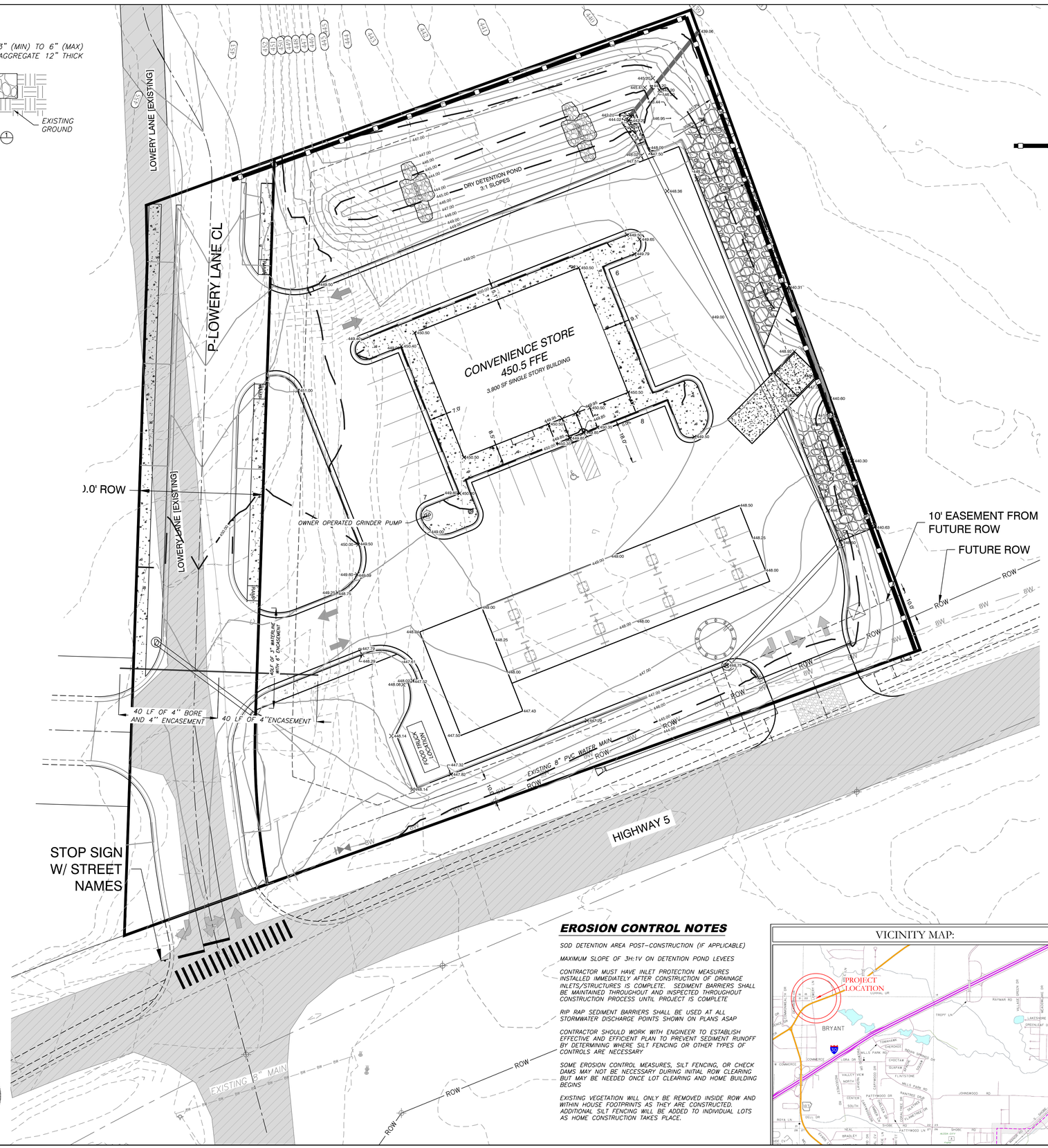
VIEW LOOKING UPSTREAM

NOTES:
1.) POINT 'A' MUST BE HIGHER THAN POINT 'B' (SPILLWAY HEIGHT)
2.) PLACE RIP-RAP BARRIER PERPENDICULAR TO THE FLOW WITH TIGHT GROUPING.
3.) PLACE RIP-RAP TO THE TOP OF BANK WITH NO ANY GAPS AND TAMP SIDE FILL MATERIAL TO PREVENT EROSION ON FLOW AROUND THE DAM.
3.) SPILLWAY HEIGHT SHALL NOT EXCEED 18"-24"
4.) INSPECT AFTER EACH SIGNIFICANT STORM, MAINTAIN AND REPAIR PROMPTLY.

RIP-RAP
CHECK DAM





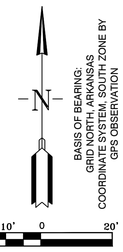


ERC LEGEND

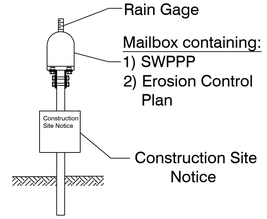
- SITE POSTING/ RAIN GUAGE
- CONC. WASHOUT DETENTION AREA
- SILT FENCE
- RIP RAP CHECK DAM
- CONSTRUCTION ENTRANCE
- DISTURBED AREA
- TRASH CONTAINER
- PORTABLE TOILET

ORDINANCE NO. 2019-32 ARTICLE IV. (2)(J):

DEADLINES FOR STABILIZATION AFTER CONSTRUCTION ACTIVITY TEMPORARILY CEASES.
STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY CEASED.
DEADLINE FOR STABILIZATION AFTER CONSTRUCTION ACTIVITY PERMANENTLY CEASES.
STABILIZATION MEASURES SHALL BE INITIATED IMMEDIATELY IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED



TYPICAL SITE POSTING:



FRONT VIEW

EROSION CONTROL NOTES

SOD DETENTION AREA POST-CONSTRUCTION (IF APPLICABLE)

MAXIMUM SLOPE OF 3H:1V ON DETENTION POND LEVEES

CONTRACTOR MUST HAVE INLET PROTECTION MEASURES INSTALLED IMMEDIATELY AFTER CONSTRUCTION OF DRAINAGE INLETS/STRUCTURES IS COMPLETE. SEDIMENT BARRIERS SHALL BE MAINTAINED THROUGHOUT AND INSPECTED THROUGHOUT CONSTRUCTION PROCESS UNTIL PROJECT IS COMPLETE

RIP RAP SEDIMENT BARRIERS SHALL BE USED AT ALL STORMWATER DISCHARGE POINTS SHOWN ON PLANS ASAP

CONTRACTOR SHOULD WORK WITH ENGINEER TO ESTABLISH EFFECTIVE AND EFFICIENT PLAN TO PREVENT SEDIMENT RUNOFF BY DETERMINING WHERE SILT FENCING OR OTHER TYPES OF CONTROLS ARE NECESSARY.

SOME EROSION CONTROL MEASURES, SILT FENCING, OR CHECK DAMS MAY NOT BE NECESSARY DURING INITIAL ROW CLEARING BUT MAY BE NEEDED ONCE LOT CLEARING AND HOME BUILDING BEGINS

EXISTING VEGETATION WILL ONLY BE REMOVED INSIDE ROW AND WITHIN HOUSE FOOTPRINTS AS THEY ARE CONSTRUCTED. ADDITIONAL SILT FENCING WILL BE ADDED TO INDIVIDUAL LOTS AS HOME CONSTRUCTION TAKES PLACE.

VICINITY MAP:

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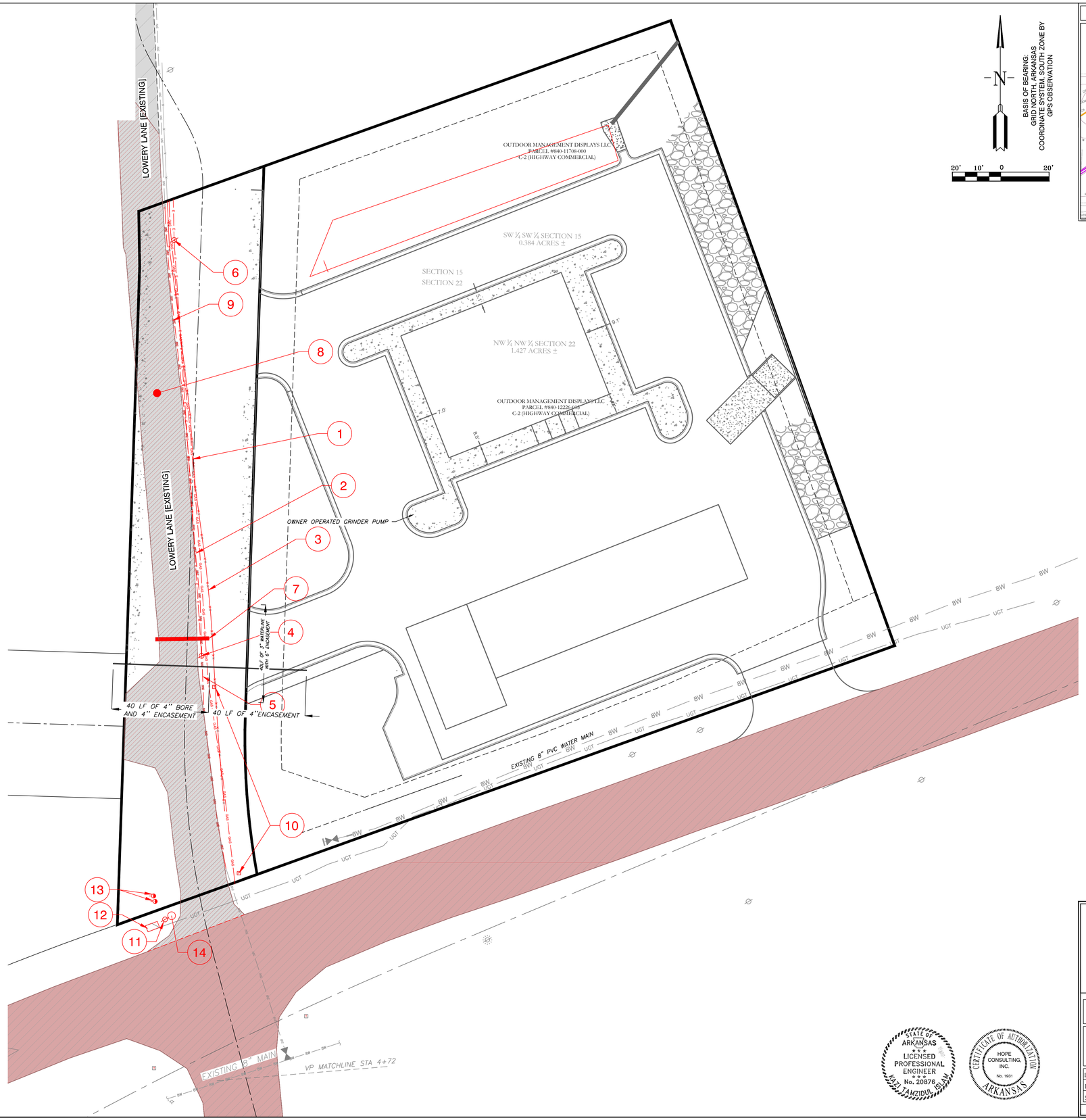
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STANDARD DEVELOPMENT COMPANY, LLC

BRYANT C-STORE
EROSION CONTROL PLAN
BRYANT, SALINE COUNTY, ARKANSAS

DATE:	9-20-2022	C.A.D. BY:	DRAWING NUMBER:
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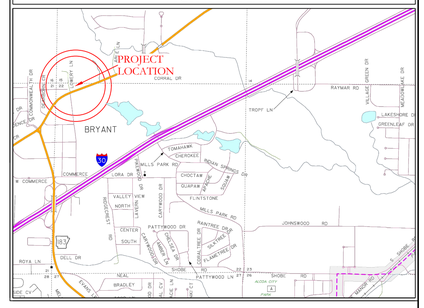
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BASIS OF BEARING:
GRID NORTH, ARKANSAS
COORDINATE SYSTEM, SOUTH ZONE BY
GPS OBSERVATION

VICINITY MAP:



DEMOLITION KEY NOTES

1. GAS MAIN REMOVAL: COORDINATE WITH GAS MAIN
2. REMOVE EXISTING 3" WATER MAIN
3. REMOVE EXISTING FENCE
4. REMOVE POWER POLE
5. REMOVE 3" WATER MAIN
6. REMOVE POWER POLE
7. REMOVE EXISTING 18" CULVERT
8. OVERLAY EXISTING ASPHALT OR DEMO AND REMOVE WHERE NECESSARY
9. HWY 5 PAVEMENT WILL BE DEMOLISHED AND REPLACED BY ARDOT IN UPCOMING IMPROVEMENT PROJECT
10. REMOVE EXISTING TELEPHONE BOX
11. REMOVE POWER POLE – COORDINATE LOCATION
12. REMOVE GUY WIRER ANCHORS
13. REMOVE COMMUNICATION PULL BOX & FIBER RISER – COORDINATE LOCATION
14. REMOVE & RELOCATE STOP STOP SIGN

GENERAL UTILITY LEGEND

- OVERHEAD POWER
- WATER MAIN
- EXISTING SEWER
- POWER POLE REMOVE
- EXISTING LIGHT POLE
- EXISTING SEWER
- REMOVE FENCE
- WATER LINE TO BE REMOVED/REPLACED
- OVERHEAD POWER REMOVE GAS
- TELEPHONE/COMMUNICATIONS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 20876
KAZI TAMZIDUL ISLAM

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No. 1931
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BRYANT C-STORE
DEMO PLAN
BRYANT, SALINE COUNTY, ARKANSAS

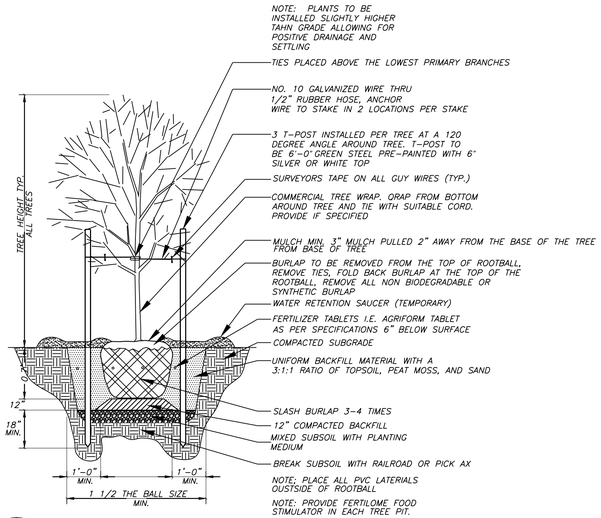
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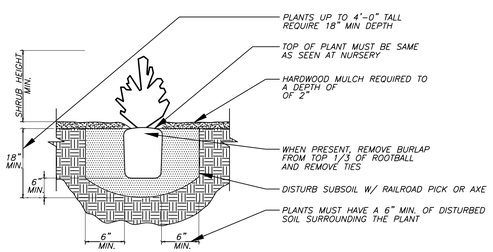
LANDSCAPE LEGEND

	COMMON NAME:	SCIENTIFIC NAME:	HEIGHT AT MATURITY:	QTY.: (REQUIRED)
	1 EVERGREEN/ 2000SF	CHOOSE FROM LIST OF SPECIES INCLUDED IN CITY OF BRYANT LANDSCAPING CODE	–	3
	SHURBS COMPACTA HOLLY – 6' O.C. – 5 GAL.	ILEX CRENATA	6'–0"	0
	CANOPY TREE	CHOOSE FROM LIST OF SPECIES INCLUDED IN CITY OF BRYANT LANDSCAPING CODE		9
	SOD	BERMUDA		21360.0 SF
	PLANTERS	N/A		247 SF (150)



1 TREE PLANTING DETAIL

NO SCALE



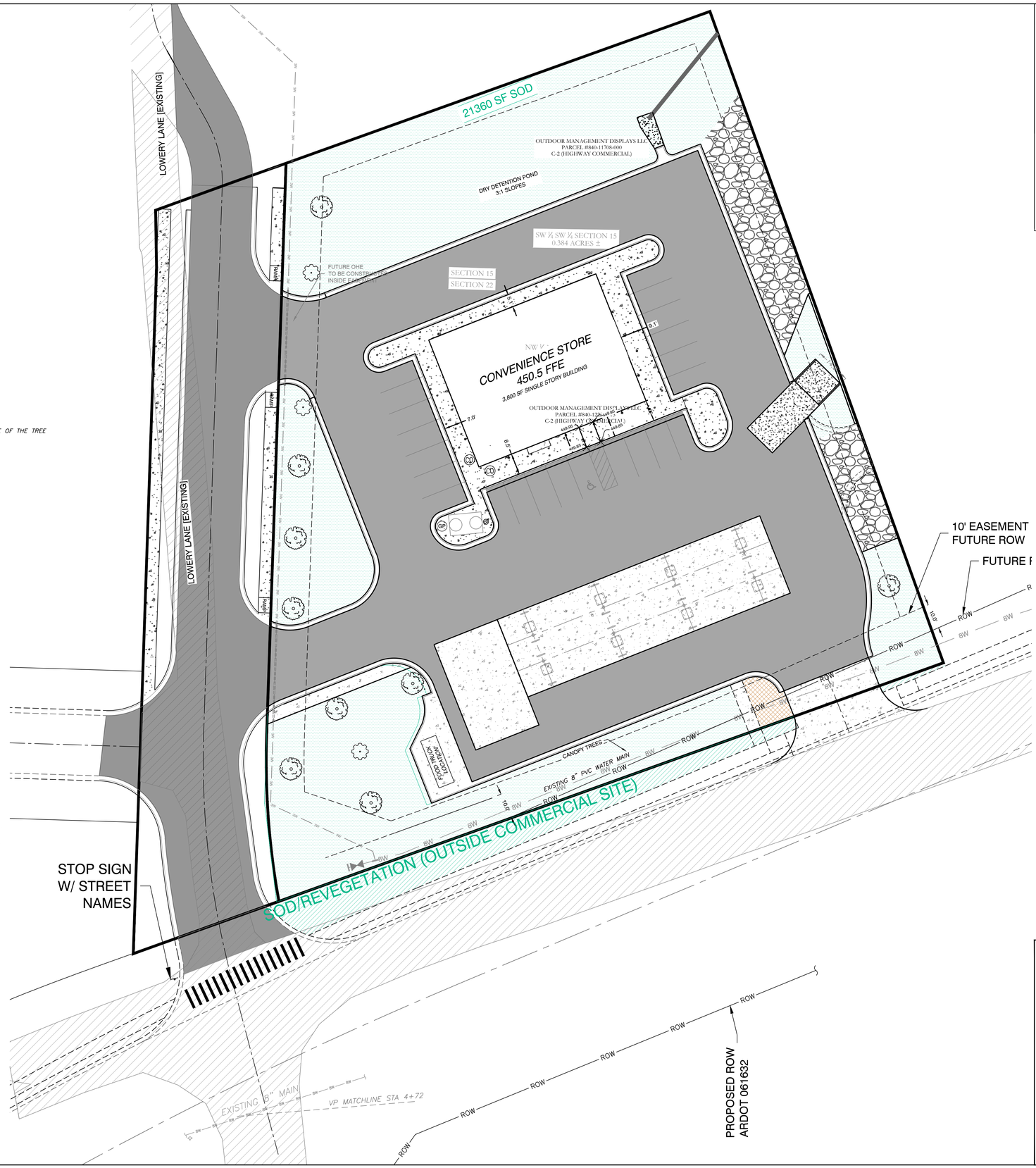
NOTES:
1. PROVIDE WEED CONTROL AND/OR FERTILIZER AS SPECIFIED BELOW.
2. WEED CONTROL AND FERTILIZER MAY BE APPLIED AT A LATER DATE TO COMPLY WITH SEASONAL CONDITIONS AND THE GROWING PERIOD.
3. PROVIDE AGRIFORM TABLETS AS PER MANUFACTURER'S RECOMMENDATIONS.
4. PROVIDE HOMOGENOUS BACKFILL PLANTING MIXTURE OF 3:1 RATIO TOPSOIL TO PEATMOSS AND/OR OTHER APPROVED SOIL ADMENDMENTS.
5. PROVIDE FERTILOME ROOT STIMULATOR OR APPROVED EQUAL IN PITS.
6. APPLY BALAN PREEMERGENT WEED CONTROL OR APPROVED EQUAL TREATMENT ON ALL SHRUB AND GROUNDCOVER BEDS.

2 SHRUB PLANTING DETAIL

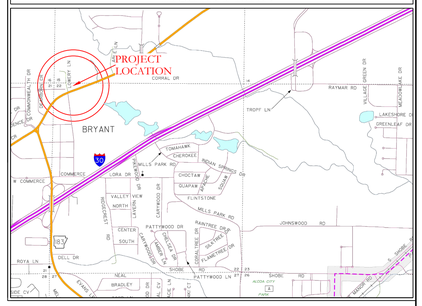
NTS

MAINTENANCE OF LANDSCAPING

THE OWNER, TENANT, OR AGENT, IF ANY SHALL BE RESPONSIBLE FOR PROVIDING, PROTECTING AND MAINTAING ALL LANDSCAPING IN HEALTHY GROWING CONDITIONS, REPLACING IT WHEN NECESSARY TO ENSURE CONTINUOUS CONFORMANCE WITH THESE GUIDELINES AND KEEPING IT FREE FROM REFUSE AND DEBRIS. MAINTENANCE SHALL INCLUDE THE REPLACEMENT OF ALL DEAD PLANT MATERIAL WITHIN THE GUARANTEED CONTRACT PERIOD.



VICINITY MAP:



PLANTING REQUIREMENTS/CALCS(APPLICABLE)

PLANTING MINIMUM
TOTAL TREES 1 / 1/2 ACRE (PROPERTY) 3.0 ACRES
EVERGREENS 1 / 2000 SF BUILDING FOOTPRINT

PLANTER/GROUND COVERAGE
150 SF CONTAINED BEDS OR GROUND COVER

LS BUFFER
10' WIDE BUFFER BETWEEN PARKING AND ADJ. LOTS

TOTAL PROPERTY SIZE OF 1.5 ACRES USED FOR CALCULATIONS

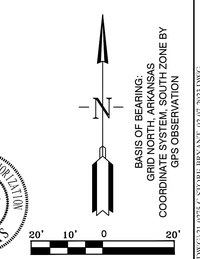
PLANTING NOTES

1. *QUANTITIES SHOWN ARE FOR CONVENIENCE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THEIR OWN COUNT.*
2. *ALL SHRUBS AND TREES SHALL RECEIVE PLANTING BACKFILL OF 2/3 TOPSOIL AND 1/3 COMPOST BY VOLUME AND 2 LBS OF 14-14-14 TIMED-RELEASE FERTILIZER PER CUBIC YARD OF BACKFILL.*
3. *ALL BEDS INSIDE LAWN AREAS TO BE EDGED WITH 4" PAINTED STEEL EDGING.*
4. *TOPSOIL SHALL BE ADDED AS NEEDED TO CREATE A SMOOTH FINISH GRADE ON PLANTING AND SODDED AREAS.*
5. *ALL TREES AND SHRUBS SHALL BE THOROUGHLY WATERED IMMEDIATELY AFTER PLANTING.*
6. *ALL NON-PAVED AREAS NOT SHOWN AS PLANTING BEDS SHALL BE SODDED WITH SOLID TIFWAY 419 BERMUDA SOD. CONTRACTOR SHALL CALCULATE ALL SODDED AREAS.*
7. *NO TREES MAY BE PLANTED WITHIN 5' OF PUBLIC UTILITIES. MAINTAIN 5' SEPARATION BETWEEN TREES AND ANY EXISTING / PROPOSED UTILITY MAINS.*

NO PORTION OF THIS PROPERTY IS WITHIN THE 100 YEAR SPECIAL FLOOD HAZARD AREA ACCORDING TO THE FLOOD INSURANCE RATE MAP PANEL #05125C0240E DATED 06-05-2020.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 20876
KAZI TAMZIDUL ISLAM

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS



BASIS OF BEARING:
GRID NORTH, ARKANSAS
COORDINATE SYSTEM, SOUTH ZONE BY
GPS OBSERVATION

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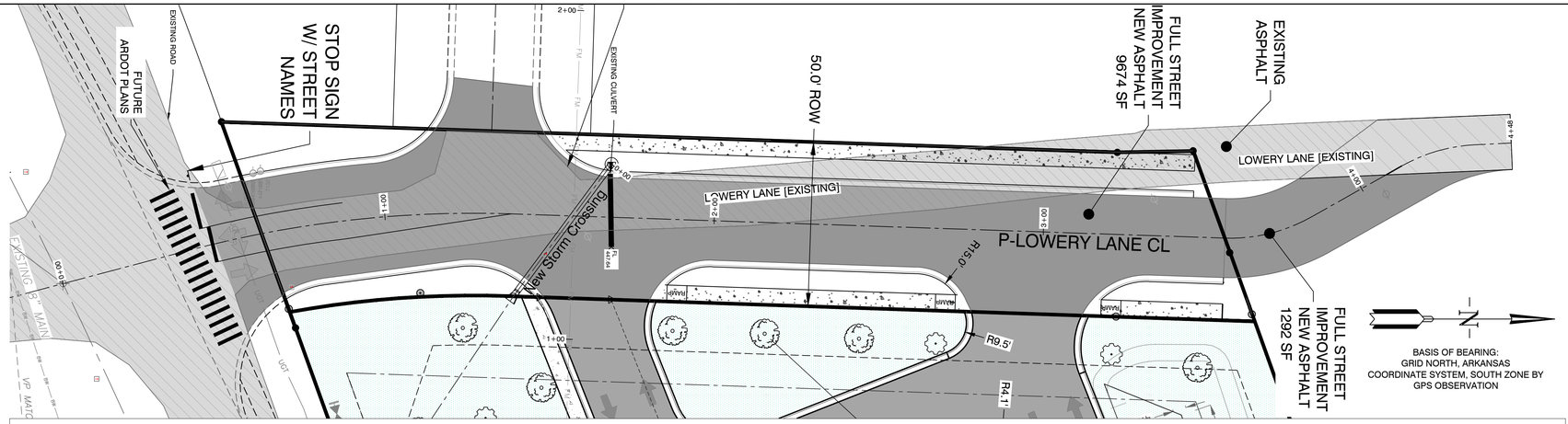
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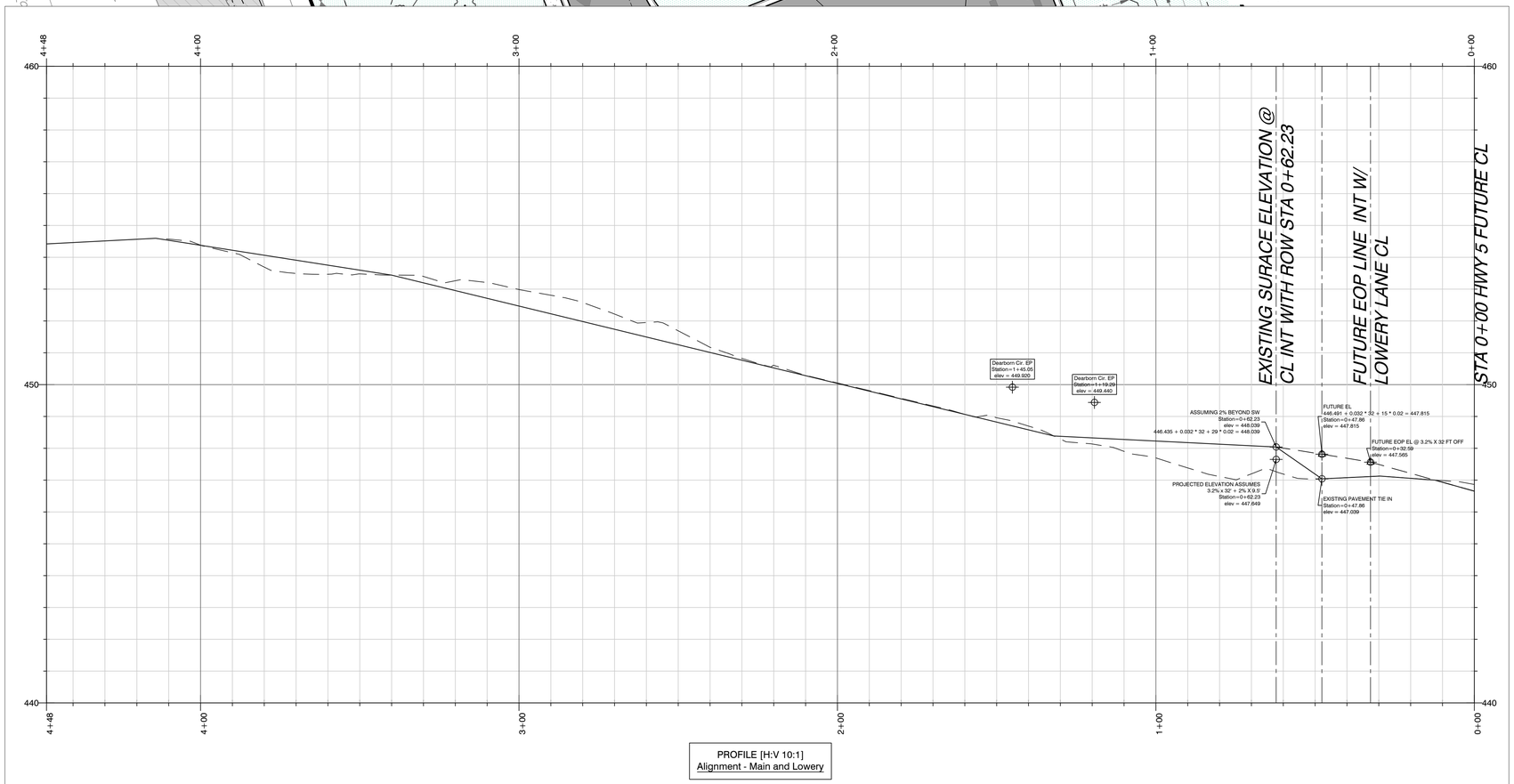
BRYANT C-STORE
LANDSCAPE PLAN
BRYANT, SALINE COUNTY, ARKANSAS

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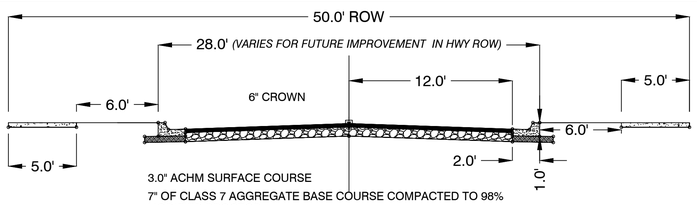
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CITY OF BRYANT TYPICAL CROSSECTION FOR LOWERY LANE IMPROVEMENTS



3.0" ACHM SURFACE COURSE

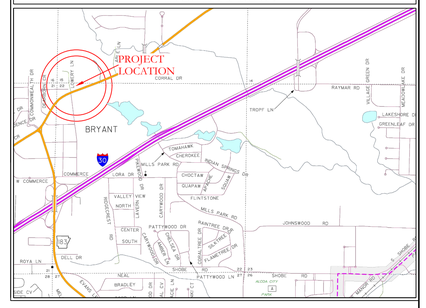
7" OF CLASS 7 AGGREGATE BASE COURSE COMPACTED TO 98% MODIFIED PROCTOR

SUBGRADE COMPACTED TO 95% MODIFIED PROCTOR TO A DEPTH OF 18"

UNDERCUT 2' DEPTH WHERE NEEDED

*VARIED SECTION WIDTH APPLIES TO FUTURE PLANS NOT PART OF THIS PROJECT

VICINITY MAP:



Know what's below. Call before you dig.

DISCLAIMER

UTILITIES SHOWN ARE NOTED BY VISIBLE OBSERVATION ONLY. UNDERGROUND UTILITIES ARE APPROXIMATE. NO EXCAVATION HAS TAKEN PLACE AS OF THIS DATE TO DETERMINE THE EXACT LOCATION OF UNDERGROUND UTILITIES SHOWN ON THIS SURVEY

FLOOD STATEMENT

NO PORTION OF THIS PROPERTY IS WITHIN THE 100 YEAR SPECIAL FLOOD HAZARD AREA ACCORDING TO THE FLOOD INSURANCE RATE MAP PANEL #05125C0240E DATED 06-05-2020.

BASIS OF BEARING:
GRID NORTH, ARKANSAS
COORDINATE SYSTEM, SOUTH ZONE BY
GPS OBSERVATION

20' 10' 0 20'

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FOR USE AND BENEFIT OF:
STANDARD DEVELOPMENT COMPANY, LLC

BRYANT C-STORE
LOWERY PROFILE - EXISTING EDGE OF PAVEMENT
BRYANT, SALINE COUNTY, ARKANSAS

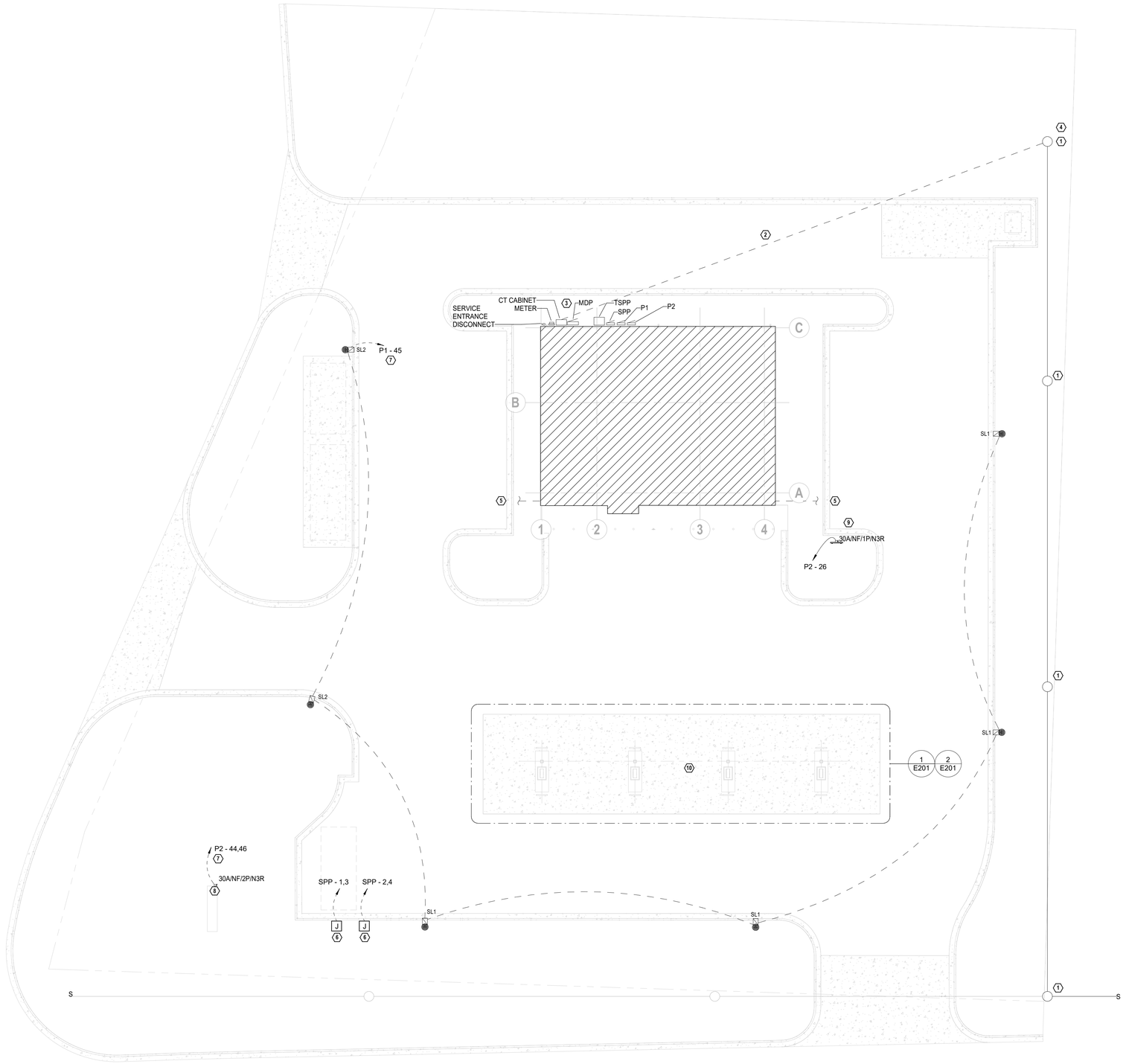
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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
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CERTIFICATE OF AUTHORIZATION
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No. 1001
ARKANSAS

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1 SITE PLAN - ELECTRICAL
1/16" = 1'-0"

GENERAL NOTES

1. COORDINATE WITH ALL OTHER DISCIPLINES FOR NEW AND EXISTING UNDERGROUND CONDITIONS PRIOR TO EXCAVATION. RE: CIVIL PLANS
2. CONTRACTOR SHALL PROVIDE BY FORMAL SUBMITTAL A CONDUIT ROUTING PLAN FOR ALL UNDERGROUND CONDUIT INDICATED ON SITE PLAN. INCLUDE IDENTIFICATION OF UTILITY CROSSINGS. SUBMITTAL SHALL BE FOLLOWED IN FIELD AND SUBMITTED WITH PROJECT CLOSEOUT DOCUMENTS.

KEYED NOTES

1. PROPOSED LOCATION OF NEW ELECTRIC UTILITY POLE PROVIDED AND INSTALLED BY ENTERGY ELECTRIC UTILITY. COORDINATE WITH ENTERGY FOR FINAL PRIMARY UTILITY LINE, POLES AND GUY WIRE LOCATIONS. RE: ELECTRIC RISER DIAGRAM
2. PROVIDE NEW UNDERGROUND ELECTRIC SERVICE LATERAL FROM NEW UTILITY TRANSFORMER TO BUILDING ELECTRIC SERVICE ENTRANCE. ELECTRIC SERVICE ENTRANCE SHALL BE A MINIMUM OF 24" UNDERGROUND AND HAVE A MINIMUM OF 24" SEPARATION FROM ALL OTHER UTILITIES. COORDINATE WITH ALL OTHER DISCIPLINES PRIOR TO INSTALLATION.
3. PROVIDE SERVICE ENTRANCE CT CAN, METER AND DISCONNECT AT THE INDICATED LOCATION. COORDINATE WITH ENTERGY ELECTRIC UTILITY AND BUILDING OWNER PRIOR TO ROUGH-IN. RE: ELECTRICAL RISER DIAGRAM
4. PROPOSED LOCATION OF NEW ELECTRIC UTILITY POLE MOUNTED TRANSFORMERS. PROVIDED AND INSTALLED BY ENTERGY ELECTRIC UTILITY COMPANY. COORDINATE WITH ENTERGY FOR FINAL LOCATION AND SIZE. RE: ELECTRIC ONE-LINE DIAGRAM.
5. PROVIDE (2) 2" C WITH NYLON PULL STRING IN EACH CONDUIT. ROUTE CONDUIT FROM MAIN DISTRIBUTION PANEL "MDP" TO INDICATED LOCATION. CAP CONDUIT, PROVIDE FLAG MARKER AND CLEARLY INDICATE ON CONDUIT "FUTURE EV".
6. SHORE POWER ELECTRIC ENCLOSURE WITH (1) NEMA 14-50R, (1) NEMA TT-30R, AND (1) NEMA 5-20R2GFI RECEPTACLES, EATON #CHU1N9N4NP. FED FROM NEW SHORE POWER PANEL "SPP". PEDESTAL MOUNTED AT END OF LOW WALL.
7. ROUTE EXTERIOR SITE AND MONUMENT LIGHTING THROUGH LIGHTING RELAY PANEL. RE: LIGHTING RELAY SCHEDULE ON ELECTRICAL SCHEDULE SHEET.
8. PROVIDE (1) 1" C FOR POWER AND (1) 1" FOR DATA FROM SIGN CONTROL STATION IN ELECTRICAL/STORAGE ROOM TO MONUMENT SIGN.
9. PROVIDE ELECTRICAL CONNECTION TO AIR/VACUUM MACHINE. REFER TO ELECTRIC DETAILS FOR DISCONNECT MOUNTED TO CONCRETE SUPPORTED UNISTRUT. COORDINATE WITH ARCHITECT/OWNER FOR FINAL LOCATION.
10. REFER TO ELECTRICAL ENLARGED PLANS SHEET FOR ALL ELECTRICAL INFORMATION ASSOCIATED WITH FUELING CANOPY.

WILLIAMS & DEAN
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A NEW CONVENIENCE STORE FOR
STANDARD
BRYANT, ARKANSAS

:STAMP
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 18900
J. HILTON HOOVER
11/1/2021

CONSTRUCTION DOCUMENTS

:SHEET TITLE
SITE PLAN - ELECTRICAL

:REVISIONS

NO.	DESCRIPTION	DATE
1	Revision 2	10/29/21

11/1/2021 :ISSUE DATE

21-028 :PROJECT NUMBER

1 :SHEET NUMBER
E002

CERTIFICATE OF AUTHORIZATION
INSIGHT ENGINEERING, PLLC
No. 3523
ARKANSAS

11/1/2021 4:11:12 PM
BIM 360://21-028 C-Store Gas Station Bryant/21-028 C-Store Bryant MEP Model Rvt 21.rvt

Branch Panel: SPP

Panel Location: EXTERIOR
Supply From: TSPP
Mounting: SURFACE
Enclosure: NEMA 3R

Volts: 120/240 Single Phase
Phases: 1
Wires: 3

A.I.C. Rating: 22KAIC
Bus Rating: 225 A
MCB Rating: 125 A

Notes:

CKT	Circuit Description	Trip (A)	Poles	"A"		"B"		Poles	Trip (A)	Circuit Description	CKT
1	SHORE POWER OUTLET BOX "SP1"	50	2	4800	4800			2	50	SHORE POWER OUTLET BOX "SP2"	2
3	--	--	--			4800	4800	--	--	--	4
5	R FROZEN DRINK MACHINE	20	2	3450	3450			2	35	AUTOMATIC ESPRESSO MACHINE	6
7	--	--	--			3450	3450	--	--	--	8
9	ICE BAGGING SYSTEM	20	2	250	--			1	--	PREPARED SPACE	10
11	--	--	--			250	--	1	--	PREPARED SPACE	12
		Total Load:		16750 VA		16750 VA					
		Total Amps:		140 A		140 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	26600 VA	100.00%	26600 VA		
RECEPTACLES	6900 VA	100.00%	6900 VA	**Total Conn. Load:**	33500 VA
				Total Est. Demand:	33500 VA
				Total Conn. Current:	93 A
				Total Est. Demand Current:	140 A

Branch Panel: MDP

Panel Location: EXTERIOR
Supply From: UTILITY
Mounting: SURFACE
Enclosure: NEMA 3R

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 35KAIC
Bus Rating: 800 A
MCB Rating: 800A/800AT

Notes:

CKT	Circuit Description	Trip (A)	Poles	A		B		C		Poles	Trip (A)	Circuit Description	CKT
1	100A/3P FD FRAME PREPARED SPACE	--	3	--	0					3	30	SURGE PROTECTION DEVICE	2
3	--	--	--			--	0			--	--	--	4
5	--	--	--					--	0	--	--	--	6
7	PANEL P1	225	3	16048	21327					3	225	PANEL P2	8
9	--	--	--			13030	23708			--	--	--	10
11	--	--	--					14711	24459	--	--	--	12
13	PANEL FP	150	3	14411	--					3	--	PD-2 FRAME PREPARED SPACE	14
15	--	--	--			14411	--			--	--	--	16
17	--	--	--					14411	--	--	--	--	18
19	PD-2 FRAME 3P SPACE W/ BUS	--	3	--	--					3	--	PD-2 FRAME PREPARED SPACE	20
21	--	--	--			--	--			--	--	--	22
23	--	--	--					--	--	--	--	--	24
25	PD-2 FRAME 3P SPACE W/ BUS	--	3	--	--					3	--	PD-2 FRAME PREPARED SPACE	26
27	--	--	--			--	--			--	--	--	28
29	--	--	--					--	--	--	--	--	30
31	PD-2 FRAME 1P SPACE W/ BUS	--	1	--	4992					2	60	FUTURE EV CHARGING STATION	32
33	FUTURE EV CHARGING STATION	60	2			4992	4992			--	--	--	34
35	--	--	--					4992	--	1	--	PD-2 FRAME PREPARED SPACE	36
37	TRANSFORMER TSPP	150	2	16750	--					3	--	PD-2 FRAME PREPARED SPACE	38
39	--	--	--			16750	--			--	--	--	40
41	PD-2 FRAME 1P SPACE W/ BUS	--	1					--	--	--	--	--	42
		Total Load:		73528 VA		77883 VA		58572 VA					
		Total Amps:		632 A		668 A		488 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	16199 VA	100.00%	16199 VA		
Motor	16457 VA	100.00%	16457 VA	**Total Conn. Load:**	209983 VA
Power	63236 VA	100.00%	63236 VA	**Total Est. Demand:**	192988 VA
RECEPTACLES	6900 VA	100.00%	6900 VA	**Total Conn. Current:**	596 A
Receptacle	43990 VA	61.37%	26995 VA	**Total Est. Demand Current:**	536 A
Spare	63201 VA	100.00%	63201 VA		

LIGHTING FIXTURE SCHEDULE

MARK	VOLTAGE	POWER	LAMP	MOUNTING					MANUFACTURER	CATALOG #	REMARKS
				CEILING	PENDANT	RECESS	SURFACE	POLE			
A2	UNV	10W	LED	X	X				AXIS	PRLED-1000-89-35-S-8-UNV-DP-1	8' ARCHITECTURAL SLIMLINE AIRCRAFT CABLE HUNG
B2	UNV	49W	LED			X			CREE	C-TR-B-FP24-50L-WH-DGA24-WHT	2X4 FLAT PANEL WITH CEILING GRID ADAPTER
C	UNV	59W	LED	X	X				CREE	LS4-50L-35K-10V	3' STRIP
D	UNV	20W	LED	X	X				ELITE	4BLRD-S-22-DMT1-35K-90-LHW-RWD-120 (HOUSING), SR4-F-1428-2000L-WD-35K-89-W-WH (TRIM)	4" DOWNLIGHT
DE	UNV	20W	LED	X	X				ELITE	4BLRD-S-22-DMT1-35K-90-LHW-RWD-120-EMG-LED-20W (HOUSING), SR4-F-1428-2000L-WD-35K-90-W-WH (TRIM)	4" DOWNLIGHT WITH /EM
E	UNV	32W	LED				X		BASELIGHT	W616X-73-E5-CBC 3/4"-73-LED45W-4K	GOOSE NECK RLM FIXTURE
F	UNV	42W	LED				X		WILLIAMS	WPTZ-L38/750-DIM-UNV	EXTERIOR WALL SCONCE
G	UNV		LED								SPECIFIED BY CANOPY VENDOR
H	UNV	48W	LED	X	X				WILLIAMS	96-4-L62/835-HIAFR-*-DRV-UNV (VERIFY HUB REQUIREMENTS)	FULLY ENCLOSED FIXTURE
J	UNV		LED								SPECIFIED BY CANOPY VENDOR
L	UNV	20W	LED				X		ANDLIGHT	VIN-CW-120	DECORATIVE WALL FIXTURE
M	UNV	4.5W	LED	X					TECH LIGHTING	700LDY-19-LED930	DECORATIVE CEILING FIXTURE
N	UNV	31W	LED	X	X				ASD	ASD-LVP2SM-4N314GHE	LED VAPOR TIGHT
P	UNV	59.4W	LED		X				TECH LIGHTING	700LDY-19-LED930	19 LIGHT CHANDELIER
SL1	UNV	230W	LED					X	CREE	NTA-A-NM-T3-35L-40K-UL-CTBS-4	AREA LIGHT
SL2	UNV	239W	LED					X	CREE	NTA-A-NM-T4-35L-40K-UL-CTBS	AREA LIGHT
EM	UNV	5.4W	LED	X			X		LIGHT ALARMS	LCA-2RHL-ID	2 HEAD SELF EM WALL MOUNT
EMX	UNV	2W	LED	X			X		LIGHT ALARMS	UQLXN500-RN-2LED	COMBO EXIT/2HEAD EM
EMR	UNV	2W	LED	X			X		LIGHT ALARMS	ELF652D/LED-WP	2-HEAD OUTDOOR REMOTE HEADS

LIGHTING CONTROL SCHEDULE

ZONE	RELAY #	CIRCUIT	PROGRAMMING	DESCRIPTION
A	1	"P1" - 39	MANUAL ON AUTOMATIC OFF	SALES AREA
B	2	"P1" - 36	MANUAL ON PHOTOCELL OFF	EXTERIOR BUILDING MOUNTED
C	3, 4	"P1" - 49, 51	MANUAL ON PHOTOCELL OFF	DIESEL FUELING CANOPY
D	5, 6	"P1" - 52, 54	MANUAL ON PHOTOCELL OFF	DIESEL FUELING CANOPY SIGNAGE
E	7	"P1" -45	MANUAL ON PHOTOCELL OFF	SITE LIGHTING
F	8, 9	"P1" - 48, 50	MANUAL ON PHOTOCELL OFF	PYLON SIGN
G	10	"P1" - 13	MANUAL ON AUTOMATIC OFF	RECEPTICALS - FRONT WINDOW DISPLAYS
	11			SPACE
	12			SPACE

NOTES:

1. COORDINATE WITH BUILDING OWNER FOR ALL AUTOMATIC TIME OF DAY CONTROLS PRIOR TO PROGRAMMING.

TRANSFORMER SCHEDULE

MARK	PRIMARY VOLTAGE	SECONDARY VOLTAGE	KVA RATING	TEMP. RISE °C	MOUNTING	SERVES	REMARKS
TSPP	208V, 1Φ	120/240V, 1Φ, 3W	25	150	EXTERIOR CONCRETE PAD MOUNTED	SHORE POWER PANEL "FTP"	NEMA 3R

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