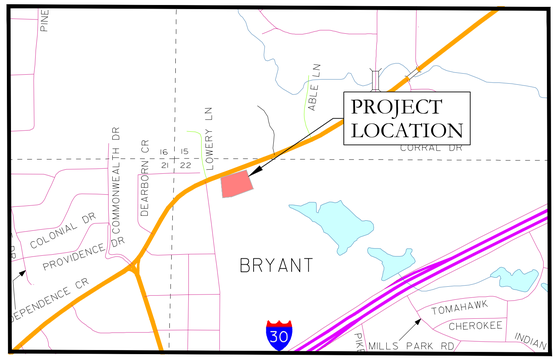
CONSTRUCTION PLANS
MARKET PLACE II
6128 HIGHWAY 5, BRYANT, SALINE COUNTY, AR



VICINITY MAP

N

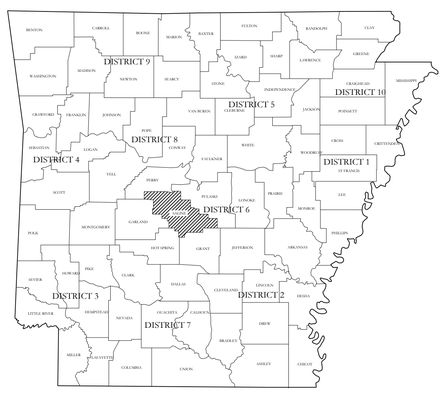
PREPARED BY:

HOPE CONSULTING
ENGINEERS - SURVEYORS

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

DRAWING INDEX

SHEET NO.	TITLE
C-1.0	SITE PLAN
C-2.0	GRADING PLAN
C-3.0	UTILITY PLAN
C-3.1-3.6	SEWER DETAILS
C-3.7-3.11	WATER DETAILS
C-4.1-4.2	PRE & POST DEV. CALCULATION
C-4.3-4.4	DRAINAGE CALCULATION
C-4.5	DRAINAGE PATH
C-5.1-5.3	EROSION CONTROL PLAN
C-6.0	LANDSCAPE PLAN



CIVIL ENGINEER

HOPE CONSULTING INC
129 N. MAIN STREET
BENTON, AR 72015

ARCHITECH

N/A

STRUCTURAL ENGINEER

N/A

GEOTECHNICAL ENGINEER

N/A

REVISION	SUBMISSION DATE
1. AS PER CITY COMMENT ON 09/18/25	11/19/2025
1. AS PER CITY COMMENT ON 11/20/25	11/25/2025

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FOR USE AND BENEFIT OF:
RYE GENERAL CONTRACTORS

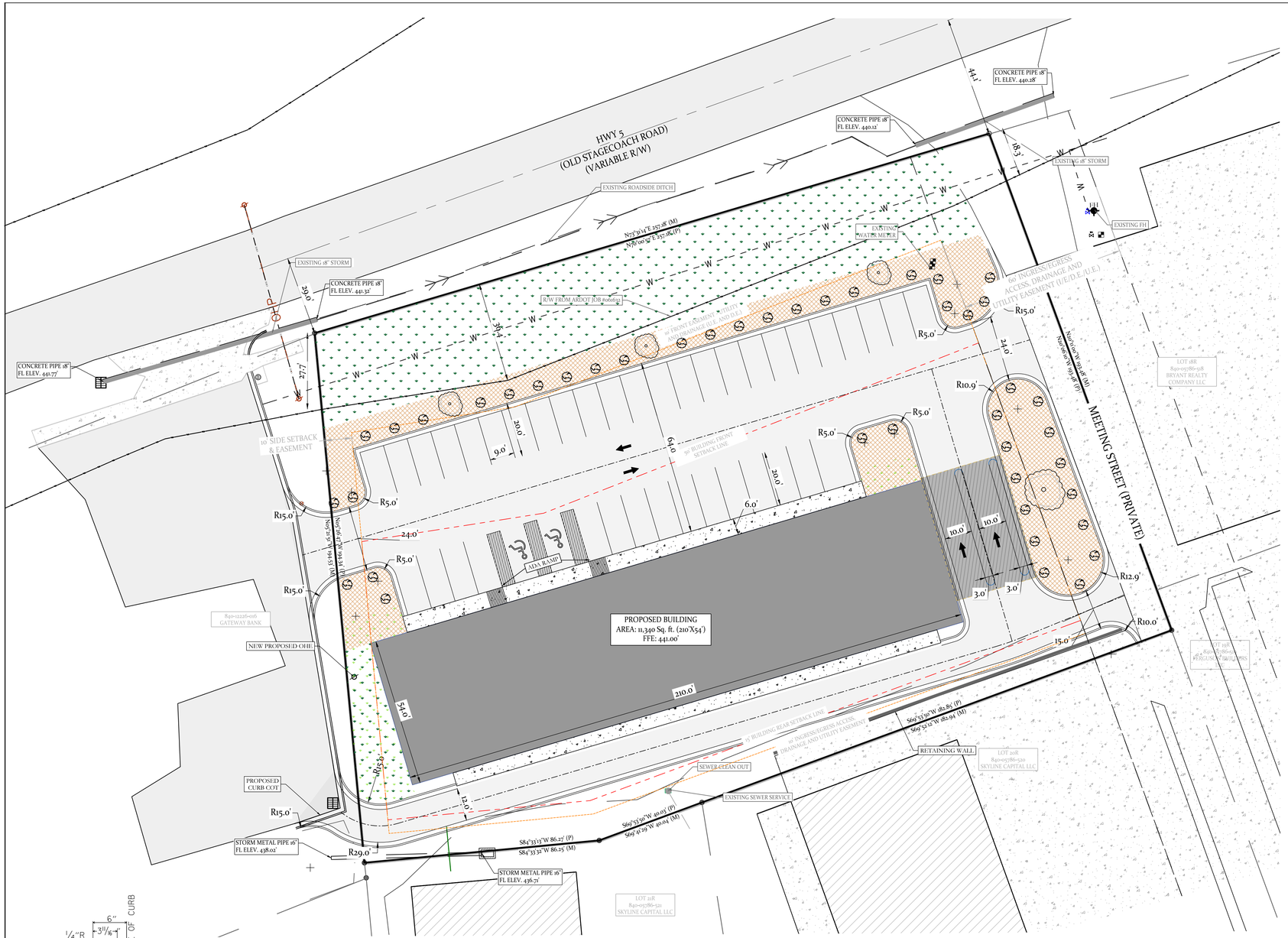
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COVER SHEET

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REVISED:	date	CHECKED BY:				25-0608	
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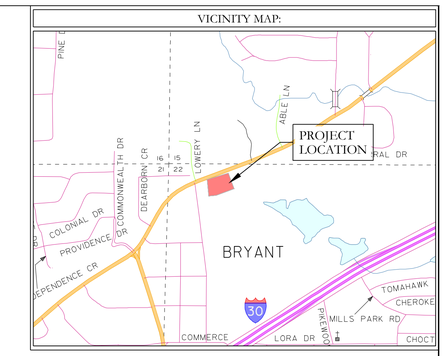
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LICENSED PROFESSIONAL ENGINEER
No. 20075
TAMZIDUL ISLAM
11-25-2025

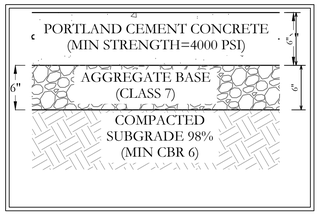
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HOPE CONSULTING, INC.
No. 1931
ARKANSAS

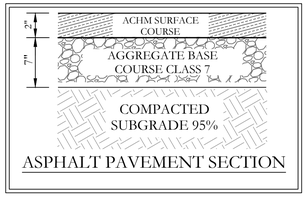
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CURB DETAILS

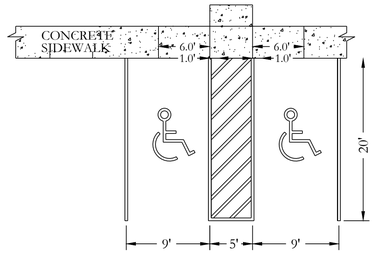


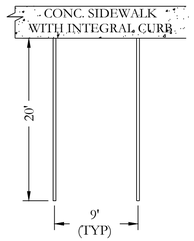




ASPHALT PAVEMENT SECTION

HEAVY DUTY CONCRETE PAVEMENT SECTION



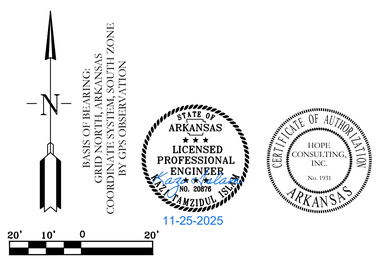


USE DIMENSIONS ABOVE UNLESS OTHERWISE NOTED

PARKING STALL & SIDEWALK DETAIL

10' FOR END STALLS

NOT TO SCALE



OWNER:		DEVELOPER:	
Name:	PHILLIP RYE	Name:	RYE GENERAL CONTRACTORS
Address:	7416 PALM BEACH, BENTON AR 72019	Address:	6128 HIGHWAY 5 NORTH AR 72022
Phone:	501-317-9883	Phone:	
Email:	philliprye@phillipprye.com	Email:	

SITE DATA	
TOTAL SITE AREA	1.30 ACRES
TOTAL DEVELOPMENT AREA	1.30 ACRES
GROSS BUILDING AREA	BUILDING 11340 SQ. FT.
BUILDING SETBACKS	FRONT SETBACK LINE: 50' RIGHT SIDE SETBACK LINE: AS SHOWN REAR SETBACK LINE: 15' LEFT SIDE SETBACK LINE: 10'
BUILDING HEIGHTS	1 STORY
BUSINESS TYPE	RETAIL
PARKING CALCULATION (PROVIDED)	PROVIDED PARKING SPACES 41 (2 ADA SPACES)

ZONING INFORMATION	
CURRENT ZONING	C 2 HIGHWAY COMMERCIAL

LEGEND

- PLSS Aliquot Corner
- Fnd. Corner Monument
- Set 1/2" Rebar/Cap (1664)
- Computed Point
(M)- As Measured
(P) - Per Deed or Plat Records
ESMT - Easement
B.S.L. - Building Setback Lines
- Clean Out
- Water Meter
- Power Pole
- Sewer Manhole
- Light Pole
- Telephone Pedestal
- Drainage Manhole
- Gas Meter
- Fence
- Overhead Power
- Sewer Line
- Water Line
- Telephone Line
- Electric Line
- Gas Line
- Existing Access Agreement
- Public Right-of-Way Dedication

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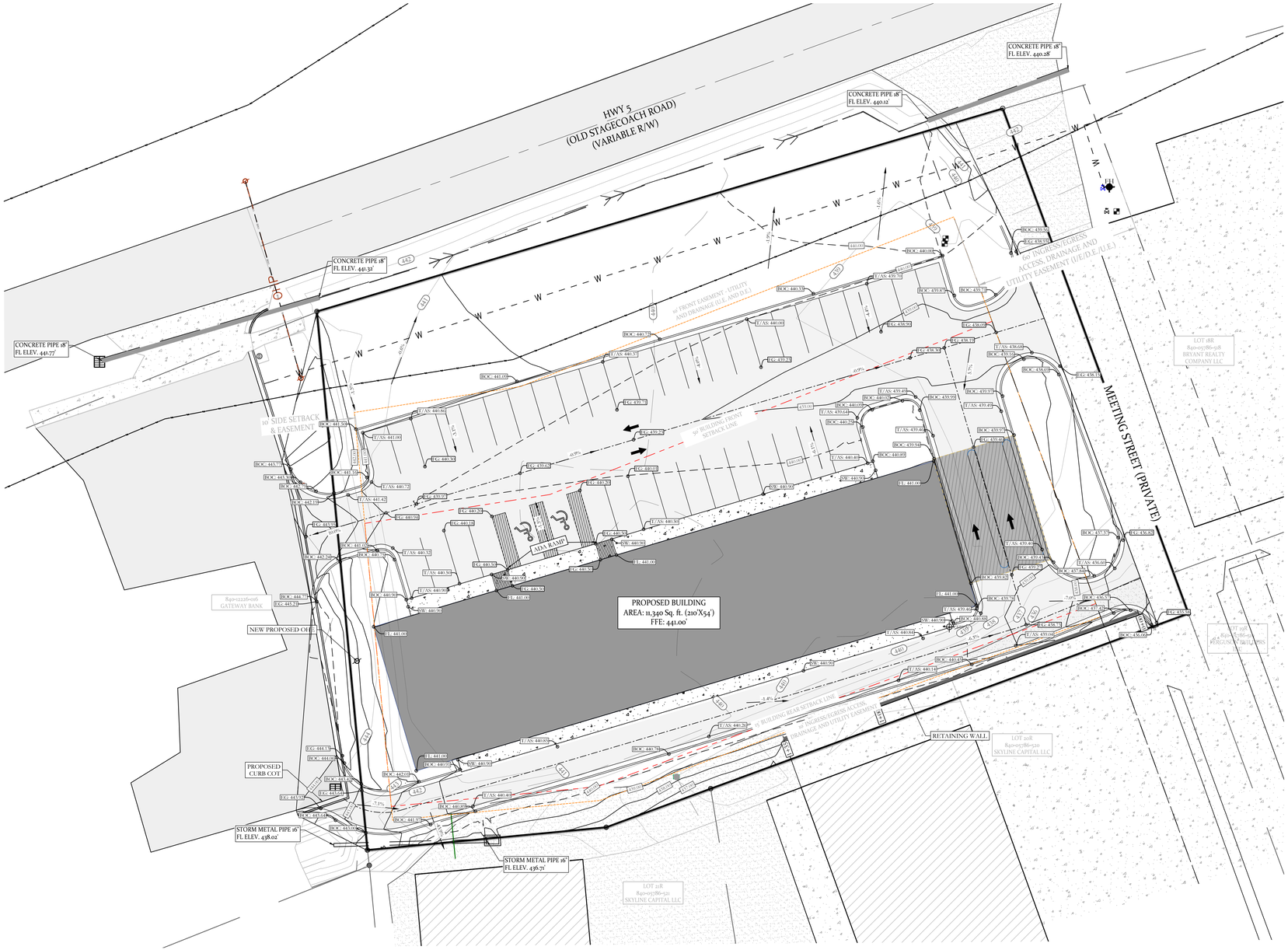
FOR USE AND BENEFIT OF:
RYE GENERAL CONTRACTORS

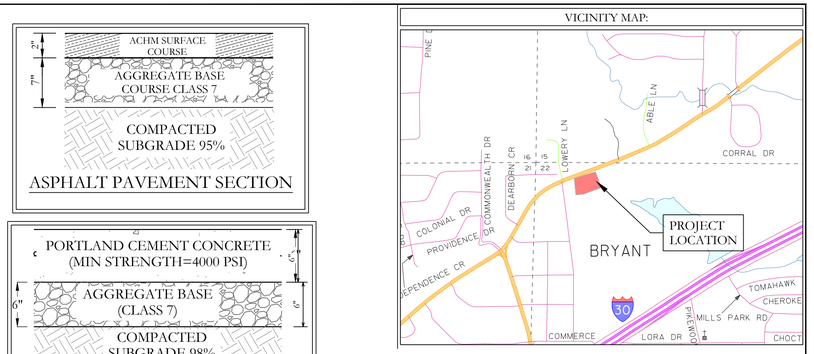
MARKET PLACE II
PRELIMINARY SITE PLAN
6128 HIGHWAY 5, BRYANT, SALINE COUNTY, ARKANSAS

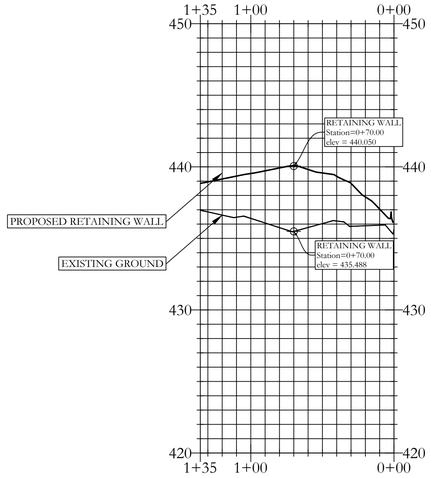
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SHEET:	C-1.0	SCALE:		

500	01S	14W	0	22	440	62	1762

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MARKET PLACE-II PHASE 3

PRELIMINARY SITE PLAN

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. FILL SHALL BE COMPACTED AT LEAST 98% OF THE MATERIALS MAXIMUM STANDARD PROCTOR DRY DENSITY.
5. THE MOISTURE CONTENT OF 1% BELOW TO 3% ABOVE THE OPTIMUM MOISTURE CONTENT.
6. SUB-GRADES 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.
7. ALL UNUSABLE SOILS SHALL BE USED ON SITE FOR FILL PURPOSES OUTSIDE THE AREAS OF BUILDING AND PAVEMENT CONSTRUCTION.
8. PROPER DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE PROJECT SITE TO PREVENT THE INCREASE OF THE IN-SITU SOILS MOISTURE CONTENT.

BASIS OF BEARING:
GRID NORTH AS DERIVED BY GPS OBSERVATIONS
COORDINATE SYSTEM: NAD83 SOUTH ZONE

20' 10' 0 20'

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
JAMES M. HOPE
NO. 20876
11-25-2025

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

LEGEND
BOC = TOP OF BACK OF CURB
FG = FINISHED GRADE
EG = EXISTING GRADE
SW = TOP OF SIDEWALK
T/AS = TOP OF ASPHALT

SITE DATA	
TOTAL SITE AREA	1.30 ACRES
TOTAL DEVELOPMENT AREA	1.30 ACRES
GROSS BUILDING AREA	BUILDING 10476 SQ. FT.
BUILDING SETBACKS	FRONT SETBACK LINE: 50' RIGHT SIDE SETBACK LINE: AS SHOWN REAR SETBACK LINE: 15' LEFT SIDE SETBACK LINE: 15'
BUILDING HEIGHTS	1 STORY
BUSINESS TYPE	RETAIL
PARKING CALCULATION (PROVIDED)	PROVIDED PARKING SPACES 51 (3 ADA SPACES)

OWNER:
Name: PHILLIP RYE
Address: 7416 PALM BEACH, BENTON
AR 72019
Phone: 501-317-9883
Email: philliprye@phillipryc.com

DEVELOPER:
Name: RYE GENERAL CONTRACTORS
Address: 6128 HIGHWAY 5 NORTH
AR 72022
Phone:
Email:

LEGEND
- PLSS Aliquot Corner
- End. Corner Monument
- Set 1/2" Rebar/Cap (1664)
- Computed Point
(M)- As Measured
(P)- Per Deed or Plat Records
ESMT - Easement
B.S.L. - Building Setback Lines
- Clean Out
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- Power Pole
- Sewer Manhole
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- Drainage Manhole
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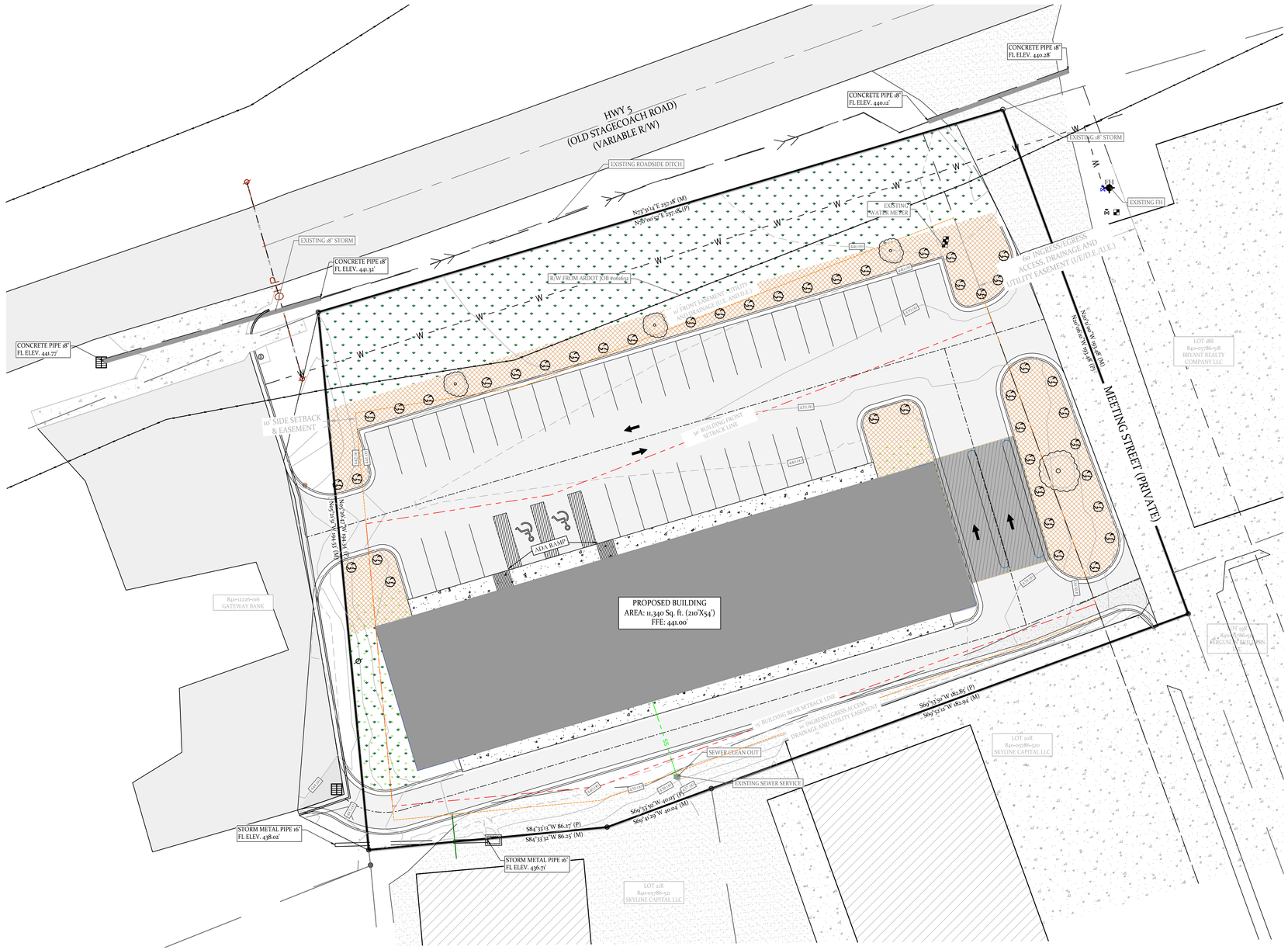
FOR USE AND BENEFIT OF:
RYE GENERAL CONTRACTORS

MARKET PLACE II
GRADING PLAN
6128 HIGHWAY 5, BRYANT, SALINE COUNTY, ARKANSAS

DATE:	11.25.25	C.A.D. BY:	DRAWING NUMBER: 25-0608
REVISED:		CHECKED BY:	
SHEET:	C-2.0	SCALE:	

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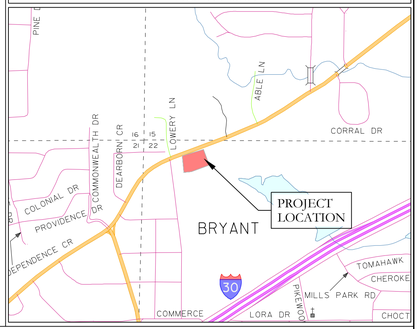
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MARKET PLACE-II PHASE 3

UTILITY PLAN

VICINITY MAP:



SEWER CONSTRUCTION NOTES:

1. ALL SEWER CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH CITY OF BRYANT "STANDARD SPECIFICATIONS FOR DESIGN AND CONSTRUCTION FOR WATER LINES AND SEWER LINES" 2015 EDITION.

WATER CONSTRUCTION NOTES:

1. ALL WATER INSTALLATION SHALL BE DONE IN ACCORDANCE WITH CITY OF BRYANT "STANDARD SPECIFICATIONS FOR DESIGN AND CONSTRUCTION FOR WATER LINES AND SEWER LINES" 2015 EDITION.

ADH NOTES:

ADH RULES PERTAINING TO PUBLIC WATER SYSTEMS, SECTION XIV . DISTRIBUTION SYSTEM, PART A SANITARY AND SAFETY HAZARDS. A MINIMUM HORIZONTAL DISTANCE OF TEN FEET SHOULD BE MAINTAINED BETWEEN WATER LINES AND SEWER LINES OR OTHER SOURCES OF CONTAMINATION. WATER LINES AND SEWERS SHALL NOT BE LAID IN THE SAME TRENCH EXCEPT ON THE WRITTEN APPROVAL OF THE ARKANSAS DEPARTMENT OF HEALTH. WATER MAINS NECESSARILY IN CLOSE PROXIMITY TO SEWERS MUST BE PLACED SO THAT THE BOTTOM OF THE WATER LINE WILL BE AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER LINE AT ITS HIGHEST POINT. IF THIS DISTANCE MUST UNAVOIDABLY BE REDUCED, THE WATER LINE OR THE SEWER LINE MUST BE ENCASED IN WATERTIGHT PIPE WITH SEALED WATERTIGHT ENDS.

EXTENDING AT LEAST TEN FEET EITHER SIDE OF THE CROSSING, ANY JOINT IN THE ENCASEMENT PIPE IS TO BE MECHANICALLY RESTRAINED. THE ENCASEMENT PIPE MAY BE VENTED TO THE SURFACE IF CARRYING WATER OR SEWER UNDER PRESSURE. WHERE A WATER LINE MUST UNAVOIDABLY PASS BENEATH THE SEWER LINE, AT LEAST 18 INCHES OF SEPARATION MUST BE MAINTAINED BETWEEN THE OUTSIDE OF THE TWO PIPES IN ADDITION TO THE PRECEDING ENCASEMENT REQUIREMENT.

A MINIMUM HORIZONTAL DISTANCE OF THREE FEET SHALL BE MAINTAINED BETWEEN WATER LINES AND OTHER UNDERGROUND UTILITIES OF A NON SANITARY NATURE (GAS, ELECTRIC, ETC.).

SEWER LEGEND:	WATER LEGEND:
SEWER SERVICE; SEWER MAIN — S — S — (S) SEWER MANHOLE	DUAL WATER METERS
	SINGLE WATER METER
	GATE VALVE
	45° FITTING
	90° FITTING
	TEE FITTING
	CROSS FITTING
	FH FIRE HYDRANT

NOTE:
USE SDR-26 PVC SEWER PIPE EXCEPT WHERE DUCTILE IRON PIPE REQUIRED FOR COVER. USE DUCTILE IRON PIPE WHERE 3' MINIMUM COVE CANNOT BE MAINTAINED.

CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL BURIED UTILITIES PRIOR TO CONSTRUCTION.

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

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
JAMZIDUL ISLAM
NO. 20870
11-25-2025

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

20' 10' 0 20'

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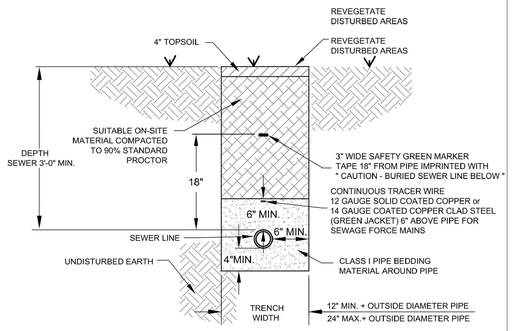
FOR USE AND BENEFIT OF:
RYE GENERAL CONTRACTORS

MARKET PLACE II
UTILITY PLAN
6128 HIGHWAY 5, BRYANT, SALINE COUNTY, ARKANSAS

DATE:	11.25.25	C.A.D. BY:	DRAWING NUMBER: 25-0608
REVISED:		CHECKED BY:	
SHEET:	C-3.0	SCALE:	

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NOTES:

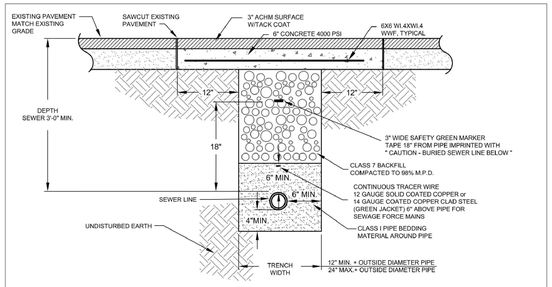
1. THE CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY TO CONNECT WITH ANY PART OF THE EXISTING SEWER SYSTEM THAT WILL REMAIN IN ORDER TO ESTABLISH A SATISFACTORY AND ACCEPTABLE SEWER SYSTEM.
2. CONTRACTOR TO CONSTRUCT ALL TRENCH EXCAVATION IN ACCORDANCE WITH ALL OSHA REGULATIONS (29 CFR CH.XVII, SUBPART B)
3. TRENCH SHALL BE EXCAVATED BELOW GRADE REQUIRED TO PROVIDE A MINIMUM 36" OF PIPE COVER.

SEWER TRENCH

(NON-PAVED AREA)

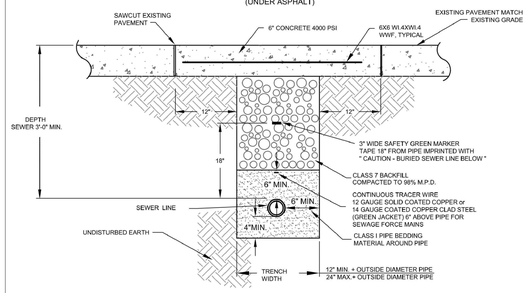
CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE: **SEWER DETAILS**	DATE: APRIL 2015 REVISED ----- ----- ----- -----	SHEET: **S1**
	DESCRIPTION: **SEWER TRENCH (NON-PAVED AREA)**		
	DRAWN BY: / CHECKED BY: / FILE: S1-Sewer Trench (Non-Paved Area).dwg		

4/16/2015 10:56:09 AM



SEWER TRENCH

(UNDER ASPHALT)



SEWER TRENCH

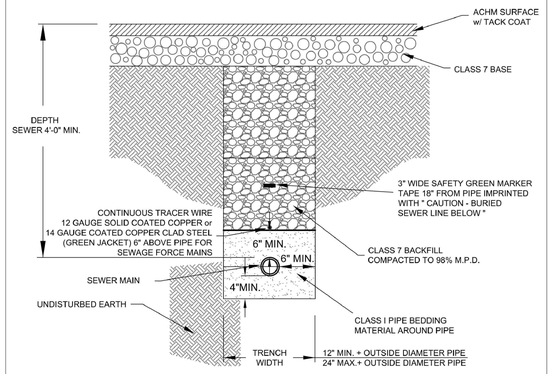
(UNDER CONCRETE)

NOTES:

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CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE: **SEWER DETAILS**	DATE: APRIL 2015 REVISED ----- ----- ----- -----	SHEET: **S2**
	DESCRIPTION: **SEWER TRENCH (UNDER PAVEMENT)**		
	DRAWN BY: / CHECKED BY: / FILE: S2-Sewer Trench (Under Pavement).dwg		

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SEWER MAIN INSTALLATION
PRIOR TO ROADWAY CONSTRUCTION

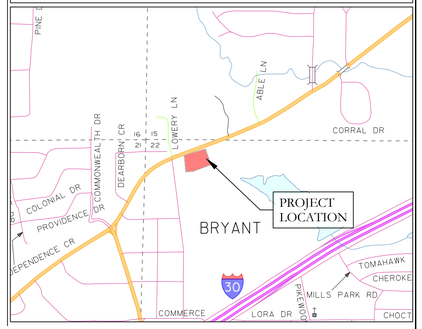
NOTES:

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CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE: **SEWER DETAILS**	DATE: APRIL 2015 REVISED ----- ----- ----- -----	SHEET: **S3**
	DESCRIPTION: **SEWER MAIN INSTALLATION PRIOR TO ROADWAY CONSTRUCTION**		
	DRAWN BY: / CHECKED BY: / FILE: S3-Sewer Main Installation Prior to Roadway Const.dwg		

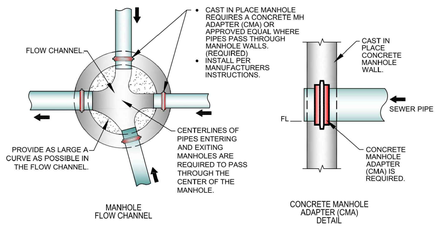
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VICINITY MAP:



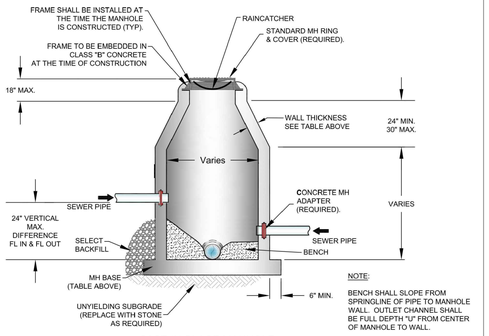
Inside Diameter of Manhole	Minimum Wall Thickness	Base Thickness	Minimum Ring & Cover Size
4' DIA	6"	6"	24" (< or Equal to 24" Pipes)
5' DIA	8"	8"	
6' DIA	8"	12"	36" (> 24" Pipes)

MANHOLE INFORMATION TABLE



MANHOLE FLOW CHANNEL

CONCRETE MANHOLE ADAPTER (CMA) DETAIL



NOTE:

BENCH SHALL SLOPE FROM SPRINGLINE OF PIPE TO MANHOLE WALL. OUTLET CHANNEL SHALL BE FULL DEPTH "U" FROM CENTER OF MANHOLE TO WALL.

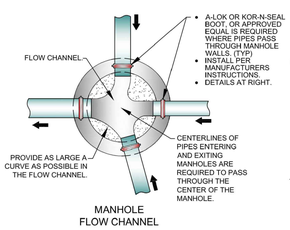
CAST-IN-PLACE MANHOLE

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE: **SEWER DETAILS**	DATE: APRIL 2015 REVISED ----- ----- ----- -----	SHEET: **S4**
	DESCRIPTION: **CAST-IN-PLACE MANHOLE**		
	DRAWN BY: / CHECKED BY: / FILE: S4-Cast In Place Manhole.dwg		

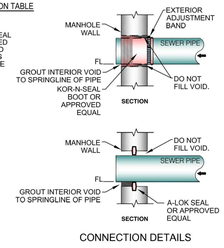
4/16/2015 10:56:22 AM

Inside Diameter of Manhole	Minimum Wall Thickness	Base Thickness	Minimum Ring & Cover Size
4' DIA	5"	6"	24" (< or Equal to 24' Pipes)
5' DIA	7"	8"	
6' DIA	7"	8"	36" (> 24" Pipes)

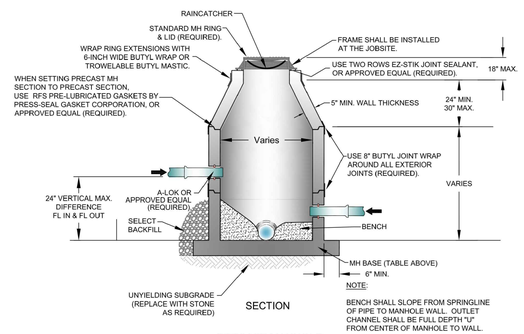
MANHOLE INFORMATION TABLE



MANHOLE FLOW CHANNEL



CONNECTION DETAILS



NOTE:

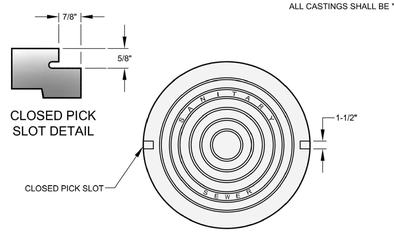
BENCH SHALL SLOPE FROM SPRINGLINE OF PIPE TO MANHOLE WALL. OUTLET CHANNEL SHALL BE FULL DEPTH "U" FROM CENTER OF MANHOLE TO WALL.

PRECAST MANHOLE

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE: **SEWER DETAILS**	DATE: APRIL 2015 REVISED ----- ----- ----- -----	SHEET: **S5**
	DESCRIPTION: **PRECAST MANHOLE**		
	DRAWN BY: / CHECKED BY: / FILE: S5-Precast Manhole.dwg		

4/16/2015 10:56:31 AM

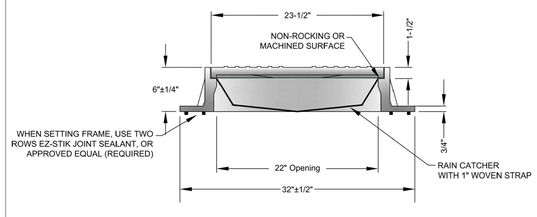
ALL CASTINGS SHALL BE "MADE IN USA"



COVER DETAIL

1. MINIMUM WEIGHT OF RING: 100 POUNDS
2. MINIMUM WEIGHT OF COVER: 110 POUNDS
3. COVERS ARE FURNISHED WITH TWO CLOSED PICK SLOTS.
4. CASTINGS SHALL BE "MADE IN USA"

* DIMENSIONAL TOLERANCES SHALL NOT EXCEED 1/16 INCH PER FOOT



FRAME AND COVER DETAIL

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE: **SEWER DETAILS**	DATE: APRIL 2015 REVISED ----- ----- ----- -----	SHEET: **S6**
	DESCRIPTION: **MANHOLE FRAME AND COVER**		
	DRAWN BY: / CHECKED BY: / FILE: S6-Manhole Frame and Cover.dwg		

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
NO. 20876
JAMES D. HOPE
11-25-2015

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

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

FOR USE AND BENEFIT OF:
RYE GENERAL CONTRACTORS

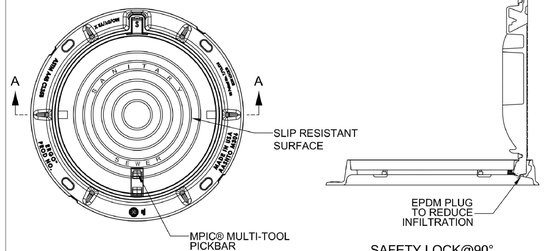
MARKET PLACE II
SEWER DETAILS 1

6128 HIGHWAY 5, BRYANT, SALINE COUNTY, ARKANSAS

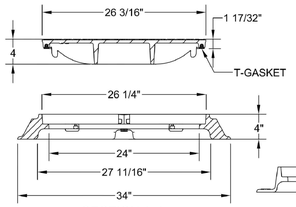
DATE:	11.25.25	C.A.D. BY:		DRAWING NUMBER: 25-0608
REVISED:		CHECKED BY:		
SHEET:	C-3.1	SCALE:		

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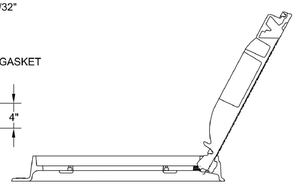
E:\2. HOPE CONSULTING\1. PROJECTS FILES\25-0608 LOT 22R MARKET PLACE II PH1\CIVIL\DWG\25-0608 LOT 22R MARKET PLACE II PH1 11.20.25.DWG



SAFETY LOCK@90°



SECTION A-A

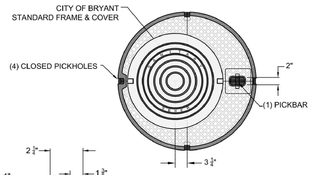


FULLY OPENED@120°

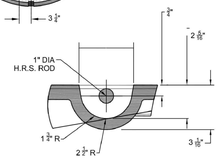
HINGED FRAME AND COVER DETAIL

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE:	DATE: APRIL 2015 REVISED	SHEET:
	DESCRIPTION: **HINGED MANHOLE FRAME AND COVER**		**S7**
	DRAWN BY: CHECKED BY: FILE: S7-Hinged Manhole Frame and Cover-OLD.dwg		

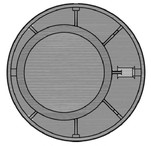
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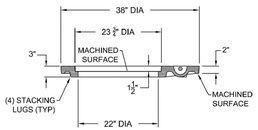
PICKHOLE DETAIL



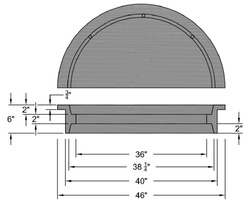
PICKBAR DETAIL



COVER BACK



COVER SECTION



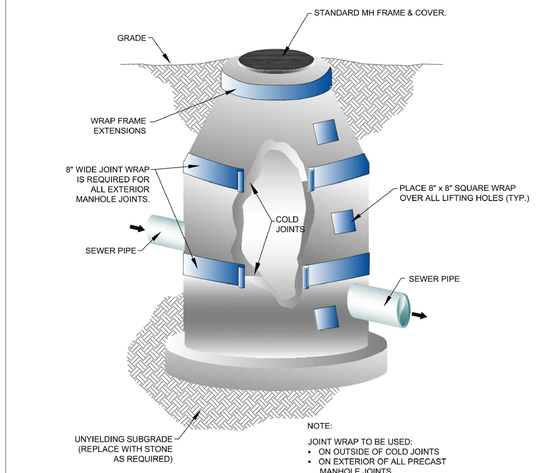
REVERSIBLE FRAME
EST. WEIGHT 360 POUNDS

NOTE:

ALL CASTINGS SHALL BE "MADE IN USA"

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE: **SEWER DETAILS**	DATE: APRIL 2015 REVISED	SHEET:
	DESCRIPTION: **36-INCH MANHOLE FRAME AND COVER**		**S8**
	DRAWN BY: CHECKED BY: FILE: S8-36 Inch Manhole Frame and Cover.dwg		

4/24/2015 10:57:04 AM



NOTE:

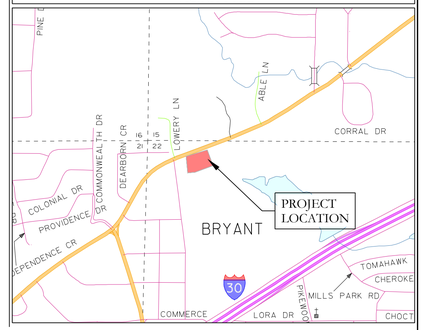
JOINT WRAP TO BE USED:
- ON OUTSIDE OF COLD JOINTS
- ON EXTERIOR OF ALL PRECAST MANHOLE JOINTS
- ON LIFT HOLES / SOCKETS

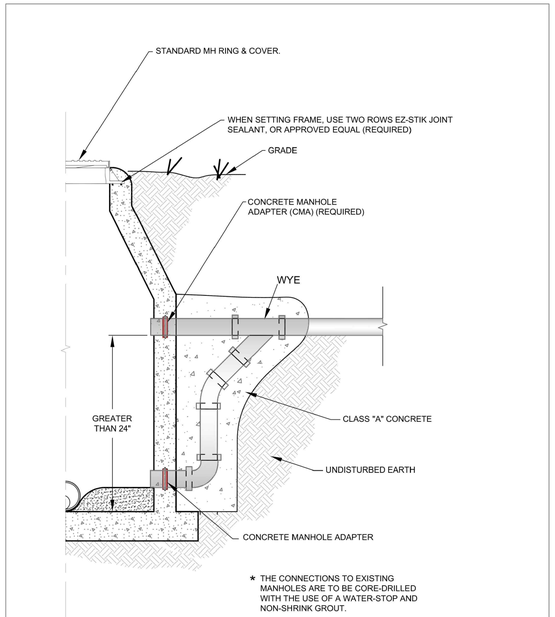
MANHOLE JOINT WRAP

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE: **SEWER DETAILS**	DATE: APRIL 2015 REVISED	SHEET:
	DESCRIPTION: **MANHOLE JOINT WRAP**		**S9**
	DRAWN BY: CHECKED BY: FILE: S9-Manhole Joint Wrap.dwg		

4/24/2015 10:57:09 AM

VICINITY MAP:





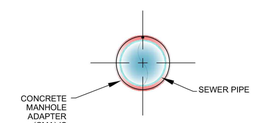
★ THE CONNECTIONS TO EXISTING MANHOLES ARE TO BE CORE-DRILLED WITH THE USE OF A WATER-STOP AND NON-SHRINK GROUT.

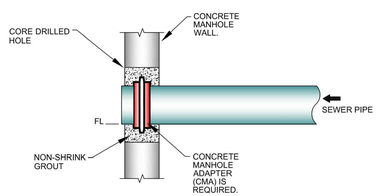
DROP MANHOLE

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE: **SEWER DETAILS**	DATE: APRIL 2015 REVISED	SHEET:
	DESCRIPTION: **DROP MANHOLE**		**S10**
	DRAWN BY: CHECKED BY: FILE: S10-Drop Manhole.dwg		

4/24/2015 10:57:34 AM

THE INSTALLATION SHALL BE DYE TESTED FOR ACCEPTANCE.

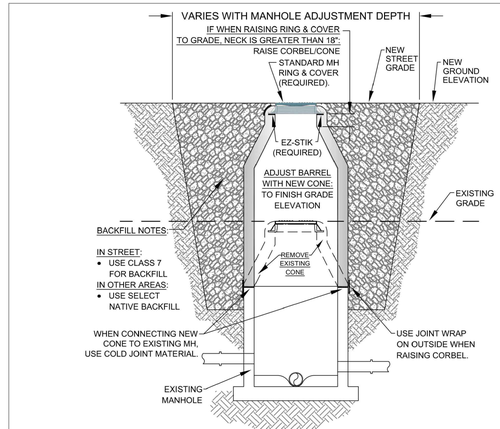


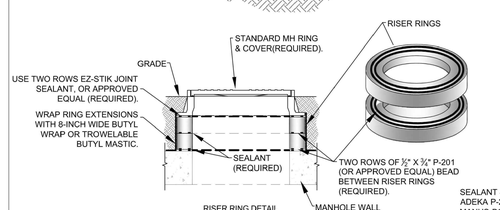


MANHOLE CORING DETAILS

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE: **SEWER DETAILS**	DATE: APRIL 2015 REVISED	SHEET:
	DESCRIPTION: **MANHOLE CORING**		**S11**
	DRAWN BY: CHECKED BY: FILE: S11-Manhole Coring.dwg		

4/24/2015 10:57:43 AM





SEALANT SHALL BE ADEKA P-201 or MANUS-BOND 75AM

TYPICAL MANHOLE ADJUST TO GRADE DETAIL

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE: **SEWER DETAILS**	DATE: APRIL 2015 REVISED	SHEET:
	DESCRIPTION: **MANHOLE ADJUST TO GRADE**		**S12**
	DRAWN BY: CHECKED BY: FILE: S12-Manhole Adjust to Grade.dwg		

STATE OF ARKANSAS ★★★ LICENSED PROFESSIONAL ENGINEER ★★★ NO. 20876 JAMZIDUL ISLAM

11-25-2025

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

HOPE CONSULTING
ENGINEERS - SURVEYORS

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

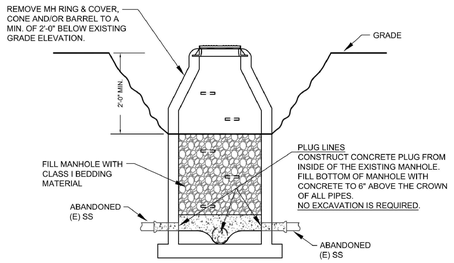
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RYE GENERAL CONTRACTORS

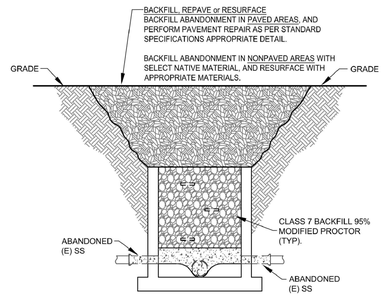
MARKET PLACE II
SEWER DETAILS 2
6128 HIGHWAY 5, BRYANT, SALINE COUNTY, ARKANSAS

DATE:	11.25.25	C.A.D. BY:	DRAWING NUMBER:
REVISED:		CHECKED BY:	25-0608
SHEET:	C-3.2	SCALE:	

500	01S	14W	0	22	440	62	1762

E:\2_HOPE CONSULTING\1_PROJECTS\25-0608 LOT 22R MARKET PLACE-II PH2\CIVIL\DWGS\25-0608 LOT 22R MARKET PLACE-II PH2 11.20.25.DWG

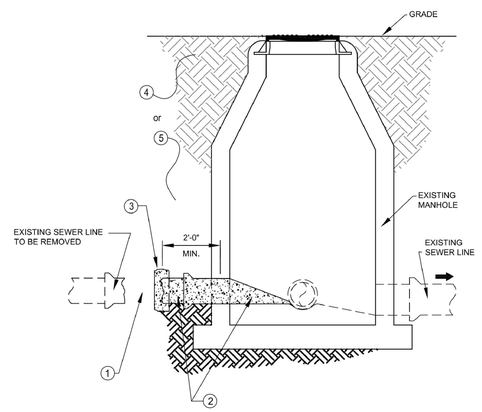




EXISTING MANHOLE ABANDONMENT DETAIL

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0488	TITLE: **SEWER DETAILS**		DATE: APRIL 2015 REVISED	SHEET: **S13**
	DESCRIPTION: **MANHOLE ABANDONMENT**			
	DRAWN BY:	CHECKED BY:	FILE: S13-Manhole Abandonment.dwg	

4/16/2015 10:57:53 AM



1. EXPOSE EXISTING LINE AND PHYSICALLY DISCONNECT THE LINE SEGMENT TO BE REMOVED. (REQUIRED)
2. FILL REMAINING SEWER PIPE TO BE SEALED WITH CONCRETE AND REINFORCEMENT. (REQUIRED)
3. CONSTRUCT A CONCRETE CAP AROUND PIPE CONNECTED TO EXISTING MANHOLE. (REQUIRED)
4. IF THE MANHOLE IS LOCATED IN A PAVED AREA, BACKFILL THE EXCAVATED AREA AND PERFORM PAVEMENT REPAIR. (REQUIRED)
5. IF THE MANHOLE IS LOCATED IN A NON-PAVED AREA, BACKFILL THE EXCAVATED AREA WITH SELECT NATIVE MATERIAL, AND RESURFACE WITH THE APPROPRIATE MATERIALS. (REQUIRED)

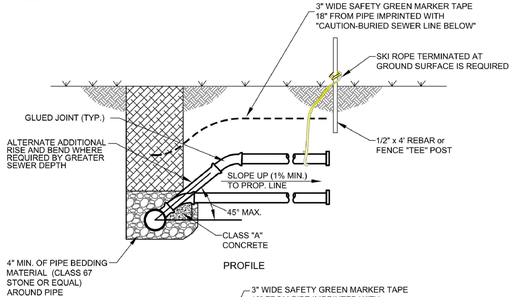
SEWER LINE DISCONNECT & SEAL DETAIL

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0488	TITLE: **SEWER DETAILS**		DATE: APRIL 2015 REVISED	SHEET: **S14**
	DESCRIPTION: **SEWER LINE DISCONNECT AND SEAL**			
	DRAWN BY:	CHECKED BY:	FILE: S14-Sewer Line Disconnect and Seal.dwg	

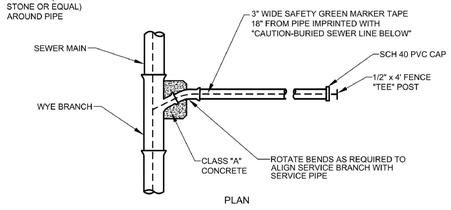
4/16/2015 10:58:03 AM

NOTES:

1. MODIFIED RISER LATERAL SHALL BE USED WHEN DEPTH OF COVER EXCEEDS 7'-0"
2. PLACE CLASS "A" CONCRETE UNDER EACH WYE BRANCH TO PREVENT CRACKING OR TWISTING UNDER EARTH LOADS.
3. SERVICE LATERAL STUBS SHALL TERMINATE AT LEAST 2 FEET INSIDE THE PROPERTY LINE BUT IN NO CASE SHALL THE SERVICE LATERAL STUB TERMINATE AT A DISTANCE LESS THAN 8 FEET FROM THE SANITARY SEWER MAIN.
4. BURY A 1/2" x 4' STEEL TEE FENCE POST AT END OF SERVICE LATERAL STUB AND BACKFILL TO FINISHED GRADE OF PROPERTY.
5. 4" DUCTILE IRON PIPE, LINED FOR SANITARY SEWER AND 4" DUCTILE IRON M.J. FITTINGS, LINED FOR SANITARY SEWER, SHALL BE INSTALLED FOR SERVICES BURIED AT DEPTHS OF 14 FEET AND GREATER.



PROFILE



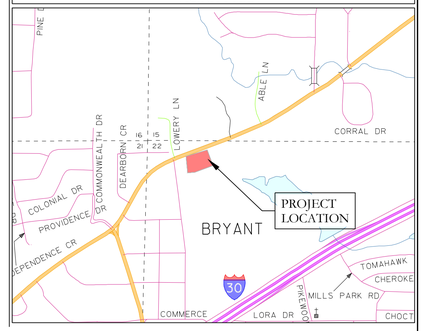
PLAN

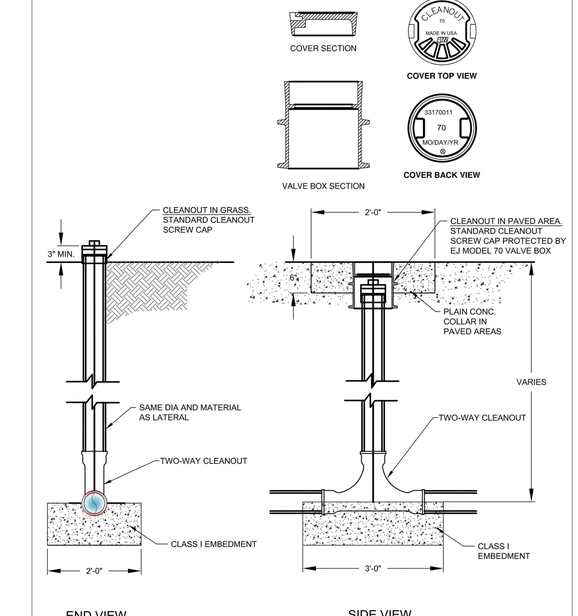
SEWER SERVICE LATERAL

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0488	TITLE: **SEWER DETAILS**		DATE: APRIL 2015 REVISED	SHEET: **S15**
	DESCRIPTION: **SEWER SERVICE LATERAL**			
	DRAWN BY:	CHECKED BY:	FILE: S15-Sewer Service Lateral.dwg	

4/16/2015 10:58:13 AM

VICINITY MAP:



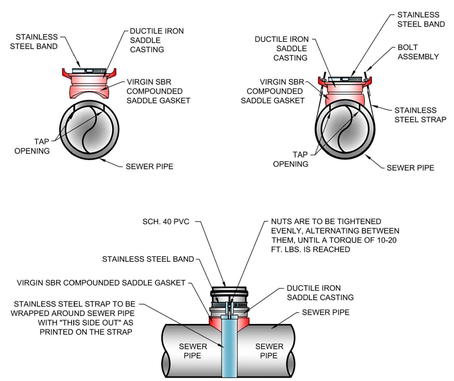


END VIEW SIDE VIEW

TYPICAL CLEANOUT

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0488	TITLE: **SEWER DETAILS**		DATE: APRIL 2015 REVISED	SHEET: **S16**
	DESCRIPTION: **SEWER SERVICE CLEANOUT**			
	DRAWN BY:	CHECKED BY:	FILE: S16-Sewer Service Cleanout.dwg	

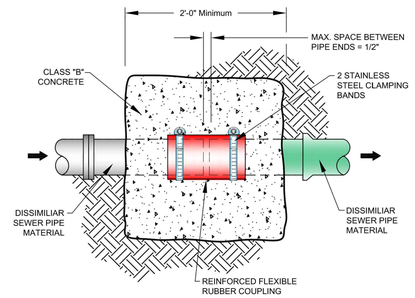
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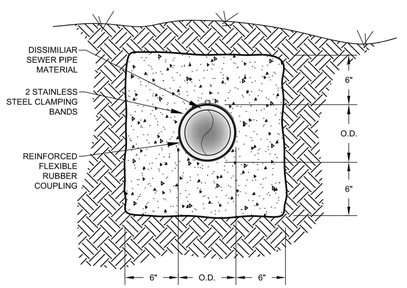


SEWER SERVICE SADDLE

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0488	TITLE: **SEWER DETAILS**		DATE: APRIL 2015 REVISED	SHEET: **S17**
	DESCRIPTION: **SEWER SERVICE SADDLE**			
	DRAWN BY:	CHECKED BY:	FILE: S17-Sewer Service Saddle.dwg	

4/16/2015 10:58:20 AM





REINFORCE FLEXIBLE COUPLING

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0488	TITLE: **SEWER DETAILS**		DATE: APRIL 2015 REVISED	SHEET: **S18**
	DESCRIPTION: **REINFORCED FLEXIBLE COUPLING**			
	DRAWN BY:	CHECKED BY:	FILE: S18-Reinforced Flexible Coupling.dwg	

4/16/2015 10:58:30 AM

STATE OF ARKANSAS LICENSED PROFESSIONAL ENGINEER NO. 026076 ALI TAMZIDUL

11-25-2025

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

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

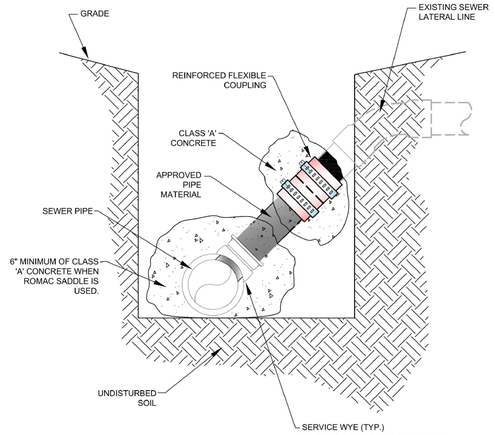
FOR USE AND BENEFIT OF:
RYE GENERAL CONTRACTORS

MARKET PLACE II
SEWER DETAILS 3
6128 HIGHWAY 5, BRYANT, SALINE COUNTY, ARKANSAS

DATE:	11.25.25	C.A.D. BY:	DRAWING NUMBER: 25-0608
REVISED:		CHECKED BY:	
SHEET:	C-3.3	SCALE:	

500	01S	14W	0	22	440	62	1762

E:\2_HOPE CONSULTING\1_PROJECTS FILES\7-25-0608 LOT 22R MARKET PLACE-II PH3\CIVIL\DWG\25-0608 LOT 22R MARKET PLACE-II PH3 11.20.25.DWG



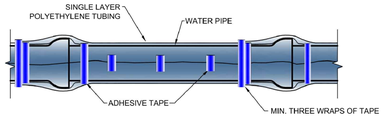
CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE: **SEWER DETAILS**
DESCRIPTION: **CONNECT TO EXISTING SEWER SERVICE**
DRAWN BY: | CHECKED BY: | FILE: S19-Connect to Existing Sewer Service.dwg

DATE: APRIL 2015 | REVISED: ----- ----- ----- -----

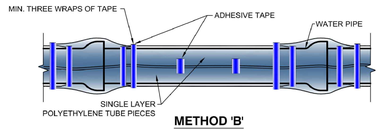
SHEET: **S19**

4/16/2015 10:38:38 AM



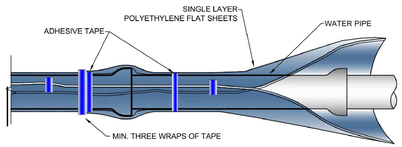
METHOD 'A'

METHOD 'A' USES ONE LENGTH OF POLYETHYLENE TUBE, OVERLAPPED AT THE JOINTS A MINIMUM OF 2 FEET.



METHOD 'B'

METHOD 'B' USES SEPARATE PIECES OF POLYETHYLENE TUBE FOR THE BARREL OF THE PIPE AND THE JOINTS. SHORT PIECES SHALL BE APPROXIMATELY 6' LONG AND OVERLAP BARREL SECTION BY A MINIMUM OF 2 FEET.



METHOD 'C'

METHOD 'C' - USED FOR PIPE-SHAPED AND ODD- SHAPED APPURTENANCES SUCH AS BENDS, REDUCERS, OFFSETS, VALVES, TEES, ETC.

ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE POLY WRAPPED.

THE ANSI/AWWA C105/A21.5 STANDARD OUTLINES THREE METHODS OF INSTALLING POLYETHYLENE ENCASEMENT/ SLEEVING.

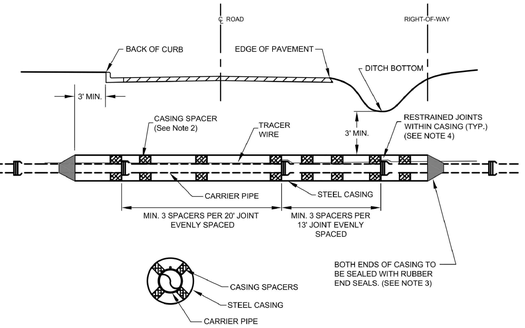
CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE: **SEWER DETAILS**
DESCRIPTION: **POLYETHYLENE PROTECTION MATERIAL**
DRAWN BY: | CHECKED BY: | FILE: S20-Poly Wrap.dwg

DATE: APRIL 2015 | REVISED: ----- ----- ----- -----

SHEET: **S20**

4/16/2015 10:38:46 AM



NOTES:

1. STEEL CASING SHALL BE CONSTRUCTED OF SPIRAL OR STRAIGHT WELDED STEEL WITH A MINIMUM DIAMETER AND THICKNESS AS SHOWN BELOW (SEE TABLE).
2. PROVIDE CASING SPACERS BY CASCADE MODEL CCS AS MANUFACTURED BY CASCADE WATERWORKS MFG. CO., OR APPROVED EQUAL, MINIMUM 12-INCHES WIDE.
3. PROVIDE END SEALS BY CASCADE MODEL CCES AS MANUFACTURED BY CASCADE WATERWORKS MFG. CO., OR APPROVED EQUAL.
4. ONE CASING SPACER SHALL BE PLACED AT THE INSERTION STOP LINE TO RESIST OVER INSERTION.
5. ALL FORCE MAINS SHALL BE FULLY RESTRAINED WHERE ENCASEMENTS ARE GREATER THAN 25 FEET IN LENGTH, SELF-RESTRAINING GASKETS OR BELL RESTRAINTS SHALL BE USED FOR ALL JOINTS INSIDE THE ENCASEMENT PIPE AND FOR THE FIRST JOINT IN EACH DIRECTION OUTSIDE THE ENCASEMENT PIPE.
6. DIRECT BURY STEEL ENCASEMENT SHALL BE POLY WRAPPED.

CARRIER AND CASING SIZES

CARRIER (ID)	2"	3"	4"	6"	8	10"	12"
CASING (ID)	5"	6"	8"	12"	16"	20"	24"
CASING WALL THICKNESS	0.250	0.250	0.250	0.250	0.250	0.250	0.375
CARRIER (ID)	14" - 16"	18" - 20"	24"	30"	36"	42"	48"
CASING (ID)	30"	36"	42"	48"	54"	60"	72"
CASING WALL THICKNESS	0.375	0.500	0.625	0.625	0.625	0.625	0.750

STEEL ENCASEMENT

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

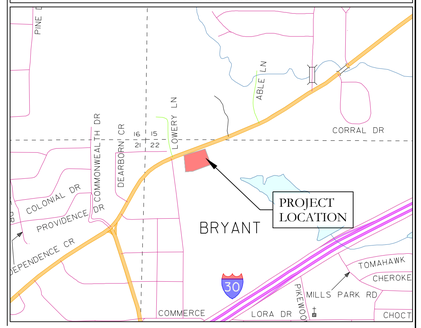
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DESCRIPTION: **STEEL ENCASEMENT**
DRAWN BY: | CHECKED BY: | FILE: S21-Steel Encasement.dwg

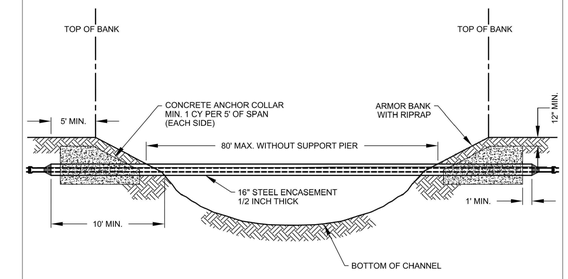
DATE: APRIL 2015 | REVISED: ----- ----- ----- -----

SHEET: **S21**

4/16/2015 10:39:14 AM

VICINITY MAP:





NOTES:

1. DETAIL SHOWN IS FOR 16" ENCASEMENT WITH 8" SEWER PIPE AT 0.50% GRADE. OTHER SIZES WILL REQUIRE A DETAILED DESIGN WITH A MAXIMUM DEFLECTION OF L/360.
2. REFER TO STEEL ENCASEMENT DETAIL FOR ADDITIONAL INSTALLATION REQUIREMENTS.
3. STEEL CASING SHALL BE CONSTRUCTED OF SPIRAL OR STRAIGHT WELDED STEEL.
4. PROVIDE CASING SPACERS BY CASCADE MODEL CCS AS MANUFACTURED BY CASCADE WATERWORKS MFG. CO., OR APPROVED EQUAL, MINIMUM 12-INCHES WIDE.
5. PROVIDE END SEALS BY CASCADE MODEL CCES AS MANUFACTURED BY CASCADE WATERWORKS MFG. CO., OR APPROVED EQUAL.
6. ONE CASING SPACER SHALL BE PLACED AT THE INSERTION STOP LINE TO RESIST OVER INSERTION.
7. ALL FORCE MAINS SHALL BE FULLY RESTRAINED WHERE ENCASEMENTS ARE GREATER THAN 25 FEET IN LENGTH, SELF-RESTRAINING GASKETS OR BELL RESTRAINTS SHALL BE USED FOR ALL JOINTS INSIDE THE ENCASEMENT PIPE AND FOR THE FIRST JOINT IN EACH DIRECTION OUTSIDE THE ENCASEMENT PIPE.
8. BELL RESTRAINTS FOR PVC SHALL BE SERIES1900 RESTRAINT HARNESS AND BELL RESTRAINTS FOR DIP SHALL BE SERIES 1700 RESTRAINT HARNESS BY EBAA IRON INC., OR APPROVED EQUAL.
9. DIRECT BURY STEEL ENCASEMENT SHALL BE POLY WRAPPED.

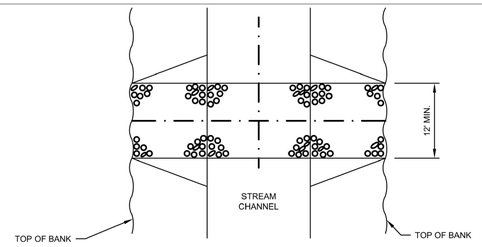
CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE: **SEWER DETAILS**
DESCRIPTION: **STEEL ENCASEMENT AERIAL CROSSING**
DRAWN BY: | CHECKED BY: | FILE: S22-Steel Encasement-Aerial Crossing.dwg

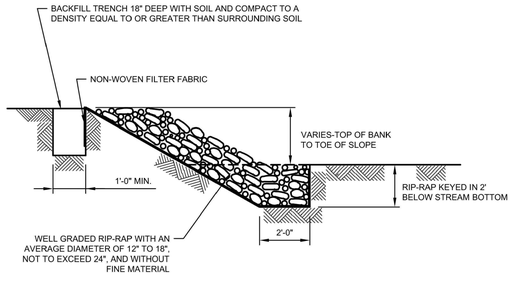
DATE: APRIL 2015 | REVISED: ----- ----- ----- -----

SHEET: **S22**

4/16/2015 10:39:20 AM



PLAN VIEW



SECTION

NOTE:

1. ALL DISTURBED STREAMBANKS SHALL BE STABILIZED AS SHOWN AND RESTORED TO PRE-CONSTRUCTION GRADES.
2. MINIMUM WIDTH OF RESTORATION SHALL BE 12 FEET.

BANK STABILIZATION

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE: **SEWER DETAILS**
DESCRIPTION: **BANK STABILIZATION**
DRAWN BY: | CHECKED BY: | FILE: S23-Bank Stabilization.dwg

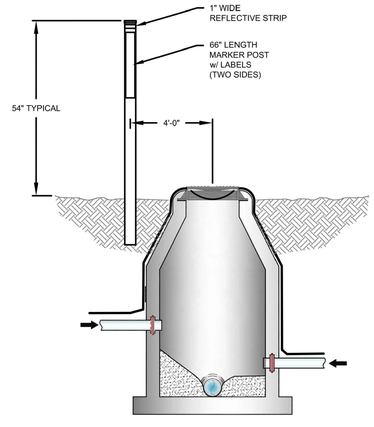
DATE: APRIL 2015 | REVISED: ----- ----- ----- -----

SHEET: **S23**

4/16/2015 10:39:26 AM

NOTES:

1. SEWER LINE MARKERS SHALL BE TRI-VIEW MARKING SYSTEM BY RHINO MARKING AND PROTECTION SYSTEMS OR CARSONITE INTERNATIONAL DUAL-SIDED UTILITY MARKER (CIB-380).
2. THE UPPERMOST PORTION OF THE CARSONITE MARKER SHALL BE MADE OF VISIBILITY ENHANCER (CVE-360).
3. TRI-VIEW MARKERS DO NOT REQUIRE VISIBILITY ENHANCERS.
4. AN ADDITIONAL WHITE 1" WIDE REFLECTIVE TAPE (3M OR EQUAL) SHALL BE PLACED AROUND THE FULL CIRCUMFERENCE OF THE TOP OF THE MARKER.



SEWER MARKER

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE: **SEWER DETAILS**
DESCRIPTION: **SEWER MARKER**
DRAWN BY: | CHECKED BY: | FILE: S24-Sewer Marker.dwg

DATE: APRIL 2015 | REVISED: ----- ----- ----- -----

SHEET: **S24**

4/16/2015 10:39:31 AM

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
NO. 20876
11-25-2025

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

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

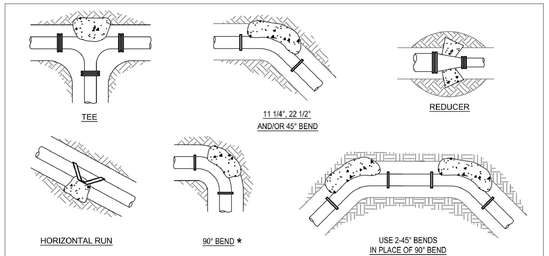
FOR USE AND BENEFIT OF:
RYE GENERAL CONTRACTORS

MARKET PLACE II
SEWER DETAILS 4
6128 HIGHWAY 5, BRYANT, SALINE COUNTY, ARKANSAS

DATE:	11.25.25	C.A.D. BY:	DRAWING NUMBER:
REVISED:		CHECKED BY:	25-0608
SHEET:	C-3.4	SCALE:	

500	01S	14W	0	22	440	62	1762

E:\2. HOPE CONSULTING\1. PROJECTS FILES\25-0608 LOT 22R MARKET PLACE-II PHS\CIVIL\DWG\25-0608 LOT 22R MARKET PLACE-II PHS 11.20.25.DWG



THRUST BLOCK SCHEDULE

(2000 PSF SOIL, 200 PSI WATER PRESSURE, 100 PSI WATER HAMMER)

BEARING AREA OF THRUST BLOCKS IN SQ. FT. (HORIZONTAL BENDS)						VOLUME OF THRUST BLOCK IN CU. FEET (VERTICAL BENDS)							
FITTING SIZE	PLUG TEE OR CAP	BEND ANGLE 90°	45°	22 1/2°	11 1/4°	FITTING SIZE	BEND ANGLE 90°	45°	22 1/2°	11 1/4°	ROD DIAM.	EMBED MIN.*
2, 3, & 4	1.9	2.7	1.4	0.7	0.4	2, 3, & 4	33.5	19.2	9.8	4.9	.625"	30"
6	5.6	7.9	4.3	2.2	1.1	6	105.8	57.2	29.2	14.7	.75"	30"
8	9.6	13.8	7.4	3.8	1.9	8	181.9	98.5	50.2	25.2	.75"	30"
12	20.5	29.6	15.7	8.0	4.0	12	387.1	209.8	106.8	53.7	1.0"	33"
16	35.7	50.4	27.3	13.9	7.0	16	672.6	364.3	185.5	93.2	1.0"	36"
18	44.8	63.4	34.3	17.5	8.8	18	844.7	457.2	233.1	117.1	1.0"	36"
24	78.4	110.9	60.0	30.6	15.4	24	1478.7	800.3	408.0	205.0	1.25"	36"

* 90 DEGREE BENDS SHALL ONLY BE USED ON A BY-EXCEPTION BASIS, AND MUST EACH BE SPECIFICALLY APPROVED BY CITY.

THRUST BLOCK NOTES:

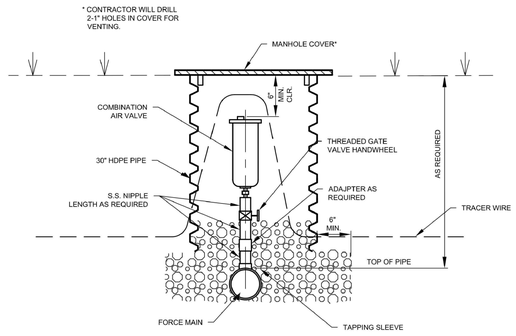
1. CONCRETE FOR THRUST BLOCKS - CLASS A CONCRETE SHALL DEVELOP NOT LESS THAN 3000 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS AND BE PLACED AGAINST UNDISTURBED SOIL.
2. ALL BENDS, BOTH HORIZONTAL AND VERTICAL, SHALL BE BACKED WITH CONCRETE. VERTICAL BENDS SHALL BE PLACED ON CONCRETE PADS WHERE BENDS TURN UP, OR LOADED WHERE BENDS TURN DOWN.
3. WRAP PIPE JOINTS IN 8 MIL "POLYETHLENE" BEFORE PLACING CONCRETE.
4. BEARING AREA SHOWN IN TABLE, IS BASED UPON A 2000 LB/SF. SOIL BEARING, AND UPON A PIPELINE PRESSURE OF 200 psi. PLUS 100 psi. WATER HAMMER. AREAS SHOWN SHALL BE ADJUSTED, SHOULD FIELD CONDITIONS VARY.
5. MJ RESTRAINTS ARE REQUIRED FOR ALL FITTINGS.
6. USE LONG-RADIUS FITTINGS WHEREVER POSSIBLE.
7. ALL BOLTS FOR FITTINGS SHALL BE 316 STAINLESS STEEL.
8. ALL DUCTILE IRON FITTINGS SHALL BE FUSION-BONDED EPOXY COATED INSIDE AND OUTSIDE IN ACCORDANCE WITH ANSI/AWWA C116/A21.16.
9. UNIT WEIGHT OF CONCRETE FOR VERTICAL THRUST BLOCKS IS 150 LBS/CU. FT.

THRUST BLOCKING

4/16/2015 3:01:58 AM

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0488

TITLE: **SEWER DETAILS**
DESCRIPTION: **FORCE MAIN THRUST BLOCKING**
DRAWN BY: CHECKED BY: FILE: S25--Thrust Blocking.dwg
DATE: APRIL 2015 REVISED
SHEET: **S25**

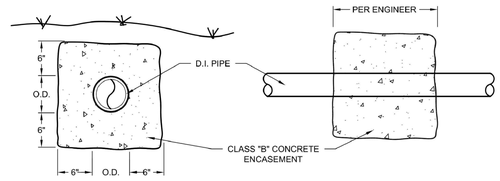


AIR RELEASE VALVE

4/16/2015 3:01:59 AM

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0488

TITLE: **SEWER DETAILS**
DESCRIPTION: **AIR RELEASE VALVE**
DRAWN BY: CHECKED BY: FILE: S26--Air Release Valve.dwg
DATE: APRIL 2015 REVISED
SHEET: **S26**



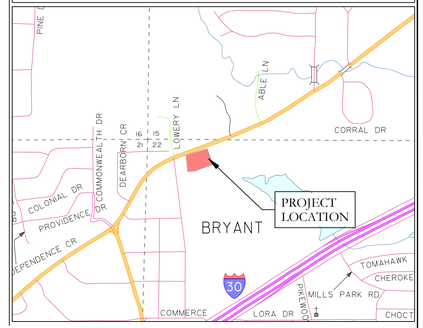
CONCRETE ENCASEMENT

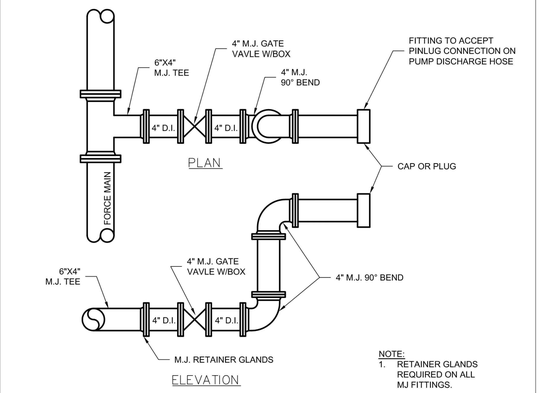
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CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0488

TITLE: **SEWER DETAILS**
DESCRIPTION: **CONCRETE ENCASEMENT DETAIL**
DRAWN BY: CHECKED BY: FILE: S27--Concrete Encasement.dwg
DATE: APRIL 2015 REVISED
SHEET: **S27**

VICINITY MAP:





NOTE:
1. RETAINER GLANDS REQUIRED ON ALL MJ FITTINGS.

EMERGENCY PUMP CONNECTION DETAILS

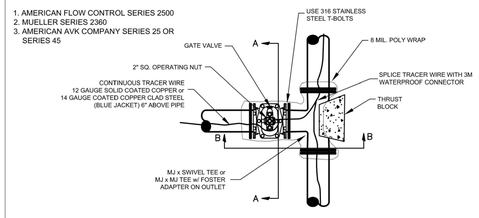
4/16/2015 3:02:00 AM

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0488

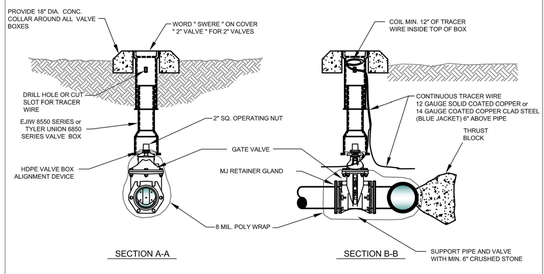
TITLE: **SEWER DETAILS**
DESCRIPTION: **EMERGENCY PUMP CONNECTION**
DRAWN BY: CHECKED BY: FILE: S28--EMERGENCY PUMP CONNECTION.dwg
DATE: APRIL 2015 REVISED
SHEET: **S28**

PERMITTED VALVES

1. AMERICAN FLOW CONTROL SERIES 2500
2. MUELLER SERIES 2360
3. AMERICAN AVK COMPANY SERIES 25 OR SERIES 45



PLAN



SECTION A-A SECTION B-B

NOTES:

1. ALL VALVES SHALL BE SECURELY ANCHORED TO THE TEE.
2. ALL HARDWARE SHALL BE 316 STAINLESS STEEL.
3. IF DEPTH OF BURY EXCEEDS 4 FT., A VALVE STEM EXTENSION SHALL BE REQUIRED. THE VALVE STEM EXTENSION NUT SHALL BE WITHIN 24-INCHES TO 12-INCHES OF THE FINISHED SURFACE.

GATE VALVE DETAIL

2" - 12"

4/16/2015 3:02:00 AM

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0488

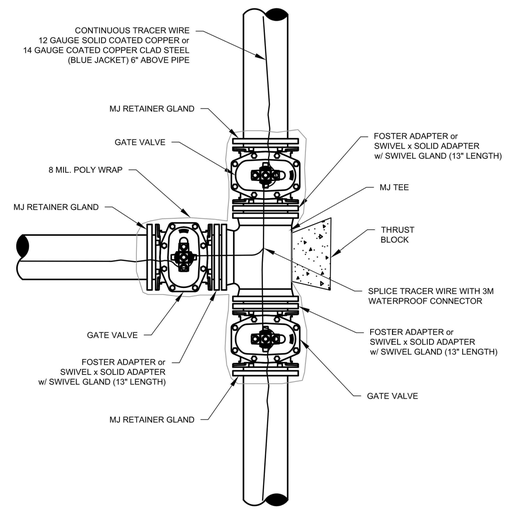
TITLE: **SEWER DETAILS**
DESCRIPTION: **GATE VALVE**
DRAWN BY: CHECKED BY: FILE: S29--Gate Valve.dwg
DATE: APRIL 2015 REVISED
SHEET: **S29**

PERMITTED VALVES

1. AMERICAN FLOW CONTROL SERIES 2500
2. MUELLER SERIES 2360
3. AMERICAN AVK COMPANY SERIES 25 OR SERIES 45

NOTES:

1. ALL VALVES SHALL BE SECURELY ANCHORED TO THE TEE.
2. ALL HARDWARE SHALL BE 316 STAINLESS STEEL.
3. IF DEPTH OF BURY EXCEEDS 4 FT., A VALVE STEM EXTENSION SHALL BE REQUIRED. THE VALVE STEM EXTENSION NUT SHALL BE WITHIN 24-INCHES TO 12-INCHES OF THE FINISHED SURFACE.
4. A FLEX T-3 AS MANUFACTURED BY INFACT CORPORATION MAY BE USED IN LIEU OF MJ TEE W/ FOSTER ADAPTERS.



3-WAY GATE VALVE DETAIL

4/16/2015 3:02:01 AM

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0488

TITLE: **SEWER DETAILS**
DESCRIPTION: **3-WAY GATE VALVES**
DRAWN BY: CHECKED BY: FILE: S30--3-Way Gate Valves.dwg
DATE: APRIL 2015 REVISED
SHEET: **S30**

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 20876
ZANE TIMOTHY DUDUL
11-25-2025

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

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

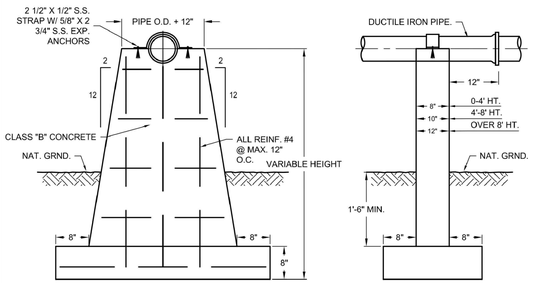
FOR USE AND BENEFIT OF:
RYE GENERAL CONTRACTORS

MARKET PLACE II
SEWER DETAILS 5
6128 HIGHWAY 5, BRYANT, SALINE COUNTY, ARKANSAS

DATE:	11.25.25	C.A.D. BY:	DRAWING NUMBER: 25-0608
REVISED:		CHECKED BY:	
SHEET:	C-3.5	SCALE:	

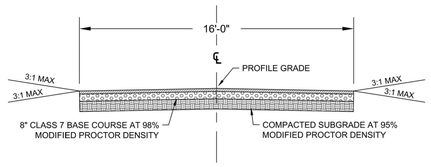
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E:\2_HOPE CONSULTING\1_PROJECTS FILES\25-0608 LOT 22R MARKET PLACE II PHES\CIVIL\DWG\25-0608 LOT 22R MARKET PLACE II PHES 11.20.25.DWG



CONCRETE PIER

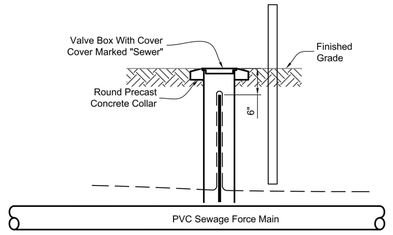
CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE: **SEWER DETAILS**		DATE: APRIL 2015 REVISED ----- ----- ----- ----- -----	SHEET: **S31**
	DESCRIPTION: **CONCRETE PIER**			
	DRAWN BY:	CHECKED BY:	FILE: S31-Concrete Pier.dwg	



GRAVEL DRIVE FOR SEWAGE PUMP STATION

GENERAL NOTES
1. CRUSHED STONE - MATERIAL IN EACH COURSE SHALL BE COMPACTED TO A DENSITY OF 98% MAXIMUM MODIFIED DENSITY.

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE: **SEWER DETAILS**		DATE: APRIL 2015 REVISED ----- ----- ----- ----- -----	SHEET: **S32**
	DESCRIPTION: **GRAVEL DRIVE FOR SEWAGE PUMP STATION**			
	DRAWN BY:	CHECKED BY:	FILE: S32-Gravel Drive For Sewage Pump Station.dwg	

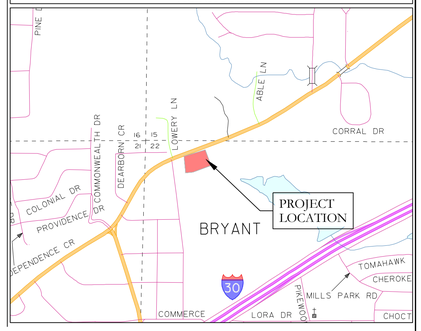


Notes:
1. Tracer Wire Test Station Shall Be Installed Every 1,000 Ft. Minimum And At Every Fiberglass Post Utility Marker.
2. Do Not Install Test Stations At Posts Located At Valves, Clean-out Stations Or Air Release Valves That Have Ground Rod Inside Access Vault

TRACER WIRE TEST STATION

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE: **SEWER DETAILS**		DATE: APRIL 2015 REVISED ----- ----- ----- ----- -----	SHEET: **S33**
	DESCRIPTION: **TRACER WIRE TEST STATION**			
	DRAWN BY:	CHECKED BY:	FILE: S33-Tracer Wire Test Station.dwg	

VICINITY MAP:



STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 20876
JAZZ TAWZIDUL HOQUE
11-25-2025

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

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

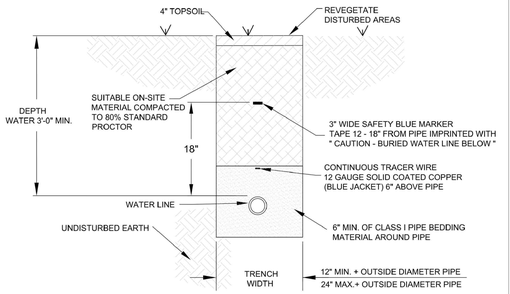
FOR USE AND BENEFIT OF:
RYE GENERAL CONTRACTORS

MARKET PLACE II
SEWER DETAILS 6
6128 HIGHWAY 5, BRYANT, SALINE COUNTY, ARKANSAS

DATE:	11.25.25	C.A.D. BY:		DRAWING NUMBER:	25-0608
REVISED:		CHECKED BY:			
SHEET:	C-3.6	SCALE:			

500	01S	14W	0	22	440	62	1762

E:\2-HOPE CONSULTING\1-PROJECTS FILES\9-25-0608 LOT 22R MARKET PLACE-II PH3\CIVIL\DWG\25-0608 LOT 22R MARKET PLACE-II PH3 11.20.25.DWG



NOTES:

1. ALL VALVES, BENDS, ETC. SHALL BE RESTRAINED.
2. THE CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY TO CONNECT WITH ANY PART OF THE EXISTING WATER SYSTEM THAT WILL REMAIN IN ORDER TO ESTABLISH A SATISFACTORY AND ACCEPTABLE WATER SYSTEM.
3. CONTRACTOR TO CONSTRUCT ALL TRENCH EXCAVATION IN ACCORDANCE WITH ALL OSHA REGULATIONS (29 CFR CH.XVII, SUBPART B)
4. TRENCH SHALL BE EXCAVATED BELOW GRADE REQUIRED TO PROVIDE A MINIMUM 36" OF PIPE COVER.
5. MAXIMUM PIPE COVER SHALL BE 60" UNDER NORMAL CONDITIONS. COVER GREATER THAN 60" MAY BE ALLOWED FOR SHORT DISTANCES WHERE REQUIRED BY FIELD CONDITIONS. NO HYDRANT SHALL BE ALLOWED WHERE LINES ARE GREATER THAN 60" DEEP.

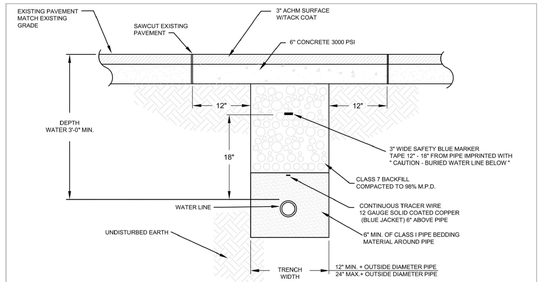
WATER MAIN TRENCH

(NON-PAVED AREA)

4/25/2025 11:07:03 AM

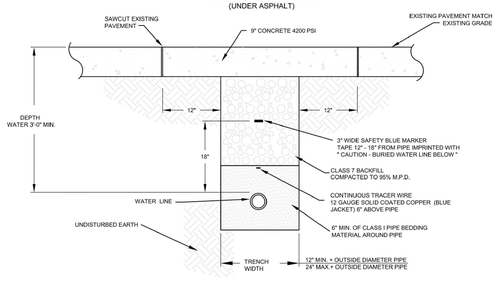
CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE:	WATER DETAILS	DATE: APRIL 2015	SHEET:
DESCRIPTION:	WATER MAIN TRENCH (NON-PAVED AREA)	REVISED ---- ---- ---- ----	W1
DRAWN BY:	CHECKED BY:	FILE: W1-Water Trench (Non-Paved Area).dwg	----



WATER MAIN TRENCH

(UNDER ASPHALT)



WATER MAIN TRENCH

(UNDER CONCRETE)

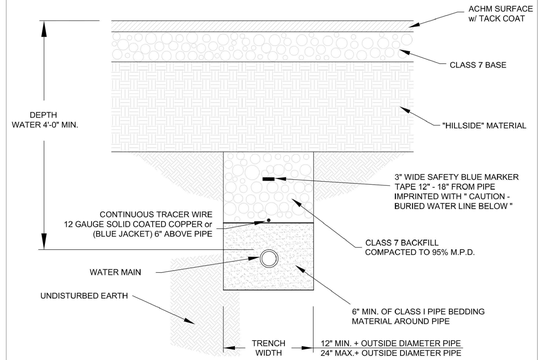
NOTES:

1. ALL VALVES, BENDS, ETC. SHALL BE RESTRAINED.
2. THE CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY TO CONNECT WITH ANY PART OF THE EXISTING WATER SYSTEM THAT WILL REMAIN IN ORDER TO ESTABLISH A SATISFACTORY AND ACCEPTABLE WATER SYSTEM.
3. CONTRACTOR TO CONSTRUCT ALL TRENCH EXCAVATION IN ACCORDANCE WITH ALL OSHA REGULATIONS (29 CFR CH.XVII, SUBPART B)
4. TRENCH SHALL BE EXCAVATED BELOW GRADE REQUIRED TO PROVIDE A MINIMUM 36" OF PIPE COVER.
5. MAXIMUM PIPE COVER SHALL BE 60" UNDER NORMAL CONDITIONS. COVER GREATER THAN 60" MAY BE ALLOWED FOR SHORT DISTANCES WHERE REQUIRED BY FIELD CONDITIONS. NO HYDRANT SHALL BE ALLOWED WHERE LINES ARE GREATER THAN 60" DEEP.

4/25/2025 11:45:29 AM

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE:	WATER DETAILS	DATE: APRIL 2015	SHEET:
DESCRIPTION:	WATER MAIN TRENCH (UNDER PAVEMENT)	REVISED ---- ---- ---- ----	W2
DRAWN BY:	CHECKED BY:	FILE: W2-Water Trench (Under Pavement).dwg	----



WATER MAIN INSTALLATION
PRIOR TO ROADWAY CONSTRUCTION

NOTES:

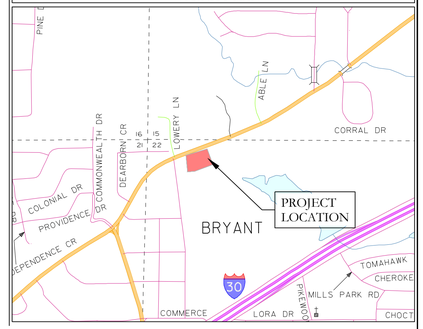
1. ALL VALVES, BENDS, ETC. SHALL BE RESTRAINED.
2. THE CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY TO CONNECT WITH ANY PART OF THE EXISTING WATER SYSTEM THAT WILL REMAIN IN ORDER TO ESTABLISH A SATISFACTORY AND ACCEPTABLE WATER SYSTEM.
3. CONTRACTOR TO CONSTRUCT ALL TRENCH EXCAVATION IN ACCORDANCE WITH ALL OSHA REGULATIONS (29 CFR CH.XVII, SUBPART B)
4. TRENCH SHALL BE EXCAVATED BELOW GRADE REQUIRED TO PROVIDE A MINIMUM 36" OF PIPE COVER.
5. MAXIMUM PIPE COVER SHALL BE 60" UNDER NORMAL CONDITIONS. COVER GREATER THAN 60" MAY BE ALLOWED FOR SHORT DISTANCES WHERE REQUIRED BY FIELD CONDITIONS. NO HYDRANT SHALL BE ALLOWED WHERE LINES ARE GREATER THAN 60" DEEP.

4/25/2025 11:45:36 AM

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

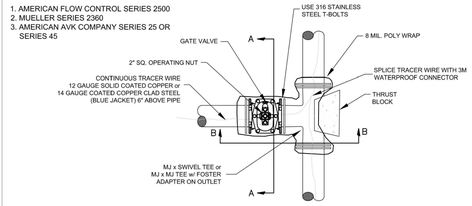
TITLE:	WATER DETAILS	DATE: APRIL 2015	SHEET:
DESCRIPTION:	WATER MAIN INSTALLATION PRIOR TO ROADWAY CONSTRUCTION	REVISED ---- ---- ---- ----	W3
DRAWN BY:	CHECKED BY:	FILE: W3-Water Main Installation Prior to Roadway Const.dwg	----

VICINITY MAP:

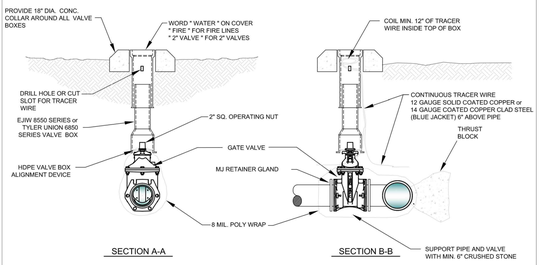


PERMITTED VALVES

1. AMERICAN FLOW CONTROL SERIES 2500
2. MUELLER SERIES 2360
3. AMERICAN AVK COMPANY SERIES 25 OR SERIES 45



PLAN



NOTES:

1. ALL VALVES SHALL BE SECURELY ANCHORED TO THE TEE.
2. ALL HARDWARE SHALL BE 316 STAINLESS STEEL.
3. IF DEPTH OF BURY EXCEEDS 4 FT., A VALVE STEM EXTENSION SHALL BE REQUIRED. THE VALVE STEM EXTENSION NUT SHALL BE WITHIN 24-INCHES TO 12-INCHES OF THE FINISHED SURFACE.

GATE VALVE DETAIL

2" - 12"

4/25/2025 11:45:53 AM

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

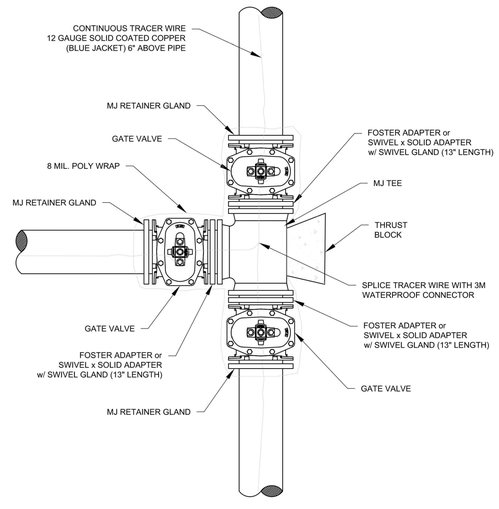
TITLE:	WATER DETAILS	DATE: APRIL 2015	SHEET:
DESCRIPTION:	GATE VALVE	REVISED ---- ---- ---- ----	W4
DRAWN BY:	CHECKED BY:	FILE: W4-Gate Valve.dwg	----

PERMITTED VALVES

1. AMERICAN FLOW CONTROL SERIES 2500
2. MUELLER SERIES 2360
3. AMERICAN AVK COMPANY SERIES 25 OR SERIES 45

NOTES:

1. ALL VALVES SHALL BE SECURELY ANCHORED TO THE TEE.
2. ALL HARDWARE SHALL BE 316 STAINLESS STEEL.
3. IF DEPTH OF BURY EXCEEDS 4 FT., A VALVE STEM EXTENSION SHALL BE REQUIRED. THE VALVE STEM EXTENSION NUT SHALL BE WITHIN 24-INCHES TO 12-INCHES OF THE FINISHED SURFACE.



3-WAY GATE VALVE DETAIL

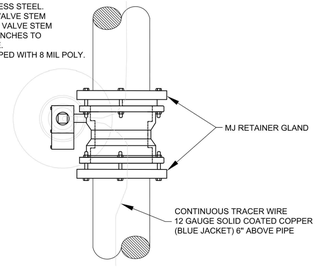
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CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

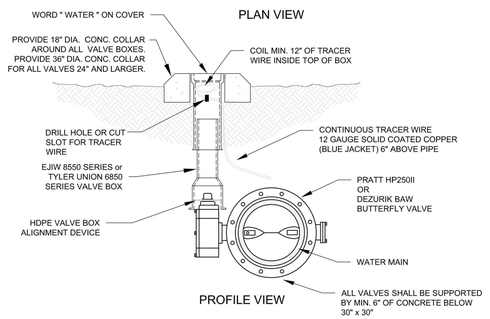
TITLE:	WATER DETAILS	DATE: APRIL 2015	SHEET:
DESCRIPTION:	3-WAY GATE VALVES	REVISED ---- ---- ---- ----	W5
DRAWN BY:	CHECKED BY:	FILE: W5-3-Way Gate Valves.dwg	----

NOTES:

1. ALL HARDWARE SHALL BE 316 STAINLESS STEEL.
2. IF DEPTH OF BURY EXCEEDS 4 FT., A VALVE STEM EXTENSION SHALL BE REQUIRED. THE VALVE STEM EXTENSION NUT SHALL BE WITHIN 24-INCHES TO 12-INCHES OF THE FINISHED SURFACE.
3. ALL VALVES SHALL BE DOUBLE WRAPPED WITH 8 MIL POLY.



PLAN VIEW



PROFILE VIEW

BUTTERFLY VALVE DETAIL

14-INCH WATER MAINS AND LARGER

4/25/2025 11:45:43 AM

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE:	WATER DETAILS	DATE: APRIL 2015	SHEET:
DESCRIPTION:	BUTTERFLY VALVE	REVISED ---- ---- ---- ----	W6
DRAWN BY:	CHECKED BY:	FILE: W6-Butterfly Valve.dwg	----

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 20075
11-25-2025

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

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

FOR USE AND BENEFIT OF:
RYE GENERAL CONTRACTORS

MARKET PLACE II
WATER DETAILS 1

6128 HIGHWAY 5, BRYANT, SALINE COUNTY, ARKANSAS

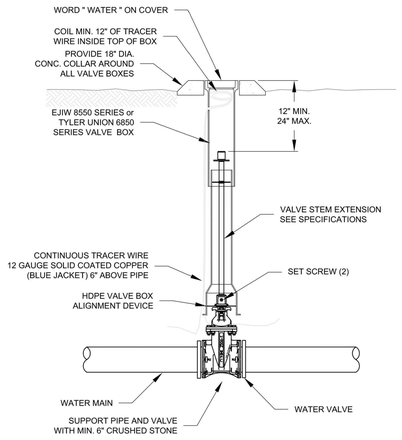
DATE:	11.25.25	C.A.D. BY:	DRAWING NUMBER: 25-0608
REVISED:		CHECKED BY:	
SHEET:	C-3.7	SCALE:	

500	01S	14W	0	22	440	62	1762

E:\2. HOPE CONSULTING\1. PROJECTS FILES\25-0608 LOT 22R MARKET PLACE II PHES\CIVIL\DWG\25-0608 LOT 22R MARKET PLACE II PHES 11.20.25.DWG

NOTES:

1. OPERATING NUT EXTENSIONS SHALL BE USED WHEN THE TOP OF THE OPERATING NUT IS GREATER THAN 4 FEET FROM THE TOP OF FINISHED SURFACE.
2. THE STEM EXTENSION SHALL BE OF ADEQUATE LENGTH TO REACH FROM THE VALVE OPERATING NUT TO A POINT WITHIN 24-INCHES TO 12-INCHES OF THE FINISHED SURFACE.

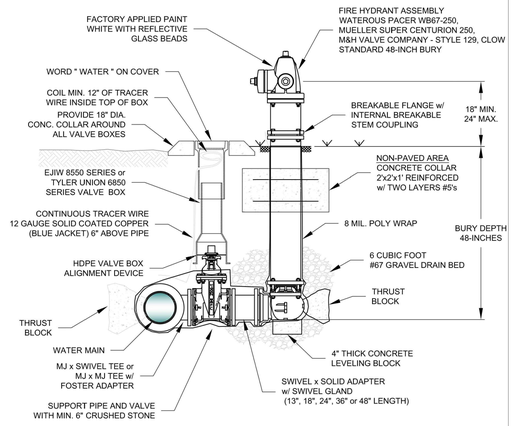


VALVE WITH STEM EXTENSION

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE: **WATER DETAILS** DESCRIPTION: **VALVE STEM EXTENSION** DRAWN BY: CHECKED BY: FILE: W7-Valve Stem Extension.dwg	DATE: APRIL 2015 REVISED --- --- --- ---	SHEET: **W7**

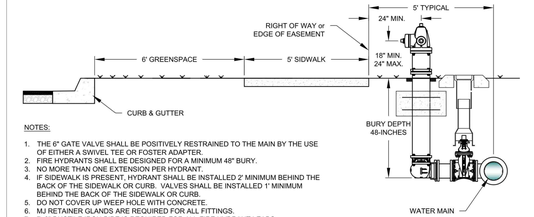
NOTES:

1. THE 6" GATE VALVE SHALL BE POSITIVELY RESTRAINED TO THE MAIN BY THE USE OF EITHER A SWIVEL TEE OR FOSTER ADAPTER.
2. FIRE HYDRANTS SHALL BE DESIGNED FOR A MINIMUM 48" BURY.
3. BURY LINE OF HYDRANT SHALL BE NO LESS THAN THE PROPOSED FINISHED ELEVATION OF BACK OF CURB, OR SIDEWALK, WHICHEVER IS GREATER.
4. NO MORE THAN ONE EXTENSION PER HYDRANT.
5. IF SIDEWALK IS PRESENT, HYDRANT SHALL BE INSTALLED 2' MINIMUM BEHIND THE BACK OF THE SIDEWALK OR CURB. VALVES SHALL BE INSTALLED 1' MINIMUM BEHIND THE BACK OF THE SIDEWALK OR CURB.
6. DO NOT COVER UP WEEP HOLE WITH CONCRETE.
7. MJ RETAINER GLANDS ARE REQUIRED FOR ALL FITTINGS.
8. 7. 6" DUCTILE IRON PIPE IS REQUIRED FOR ALL FIRE HYDRANT LEADS GREATER THAN 48-INCHES FROM THE MAIN VALVE.
9. AN ADDITIONAL GUARDIAN VALVE IS REQUIRED FOR ALL FIRE HYDRANT LEADS GREATER THAN 30 FEET IN LENGTH.



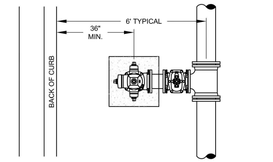
FIRE HYDRANT & VALVE CONNECTION

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE: **WATER DETAILS** DESCRIPTION: **FIRE HYDRANT AND VALVE CONNECTION** DRAWN BY: CHECKED BY: FILE: W8-Fire Hydrant and Valve.dwg	DATE: APRIL 2015 REVISED --- --- --- ---	SHEET: **W8**

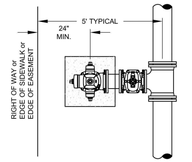


NOTES:

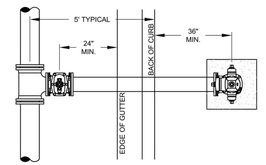
1. THE 6" GATE VALVE SHALL BE POSITIVELY RESTRAINED TO THE MAIN BY THE USE OF EITHER A SWIVEL TEE OR FOSTER ADAPTER.
2. FIRE HYDRANTS SHALL BE DESIGNED FOR A MINIMUM 48" BURY.
3. NO MORE THAN ONE EXTENSION PER HYDRANT.
4. IF SIDEWALK IS PRESENT, HYDRANT SHALL BE INSTALLED 2' MINIMUM BEHIND THE BACK OF THE SIDEWALK OR CURB. VALVES SHALL BE INSTALLED 1' MINIMUM BEHIND THE BACK OF THE SIDEWALK OR CURB.
5. DO NOT COVER UP WEEP HOLE WITH CONCRETE.
6. MJ RETAINER GLANDS ARE REQUIRED FOR ALL FITTINGS.
7. 7. 6" DUCTILE IRON PIPE IS REQUIRED FOR ALL FIRE HYDRANT LEADS GREATER THAN 48-INCHES FROM THE MAIN VALVE.
8. AN ADDITIONAL GUARDIAN VALVE IS REQUIRED FOR ALL FIRE HYDRANT LEADS GREATER THAN 30 FEET IN LENGTH.



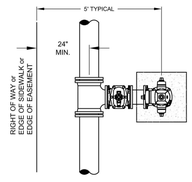
WATER LINE BEHIND CURB
INSIDE ROW



WATER LINE IN EASEMENT
OUTSIDE ROW



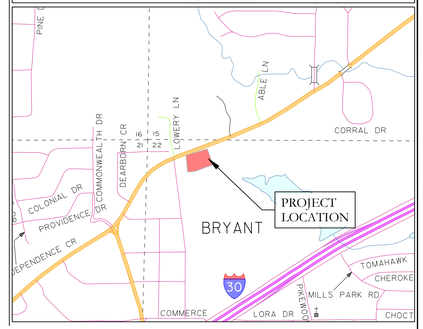
WATER LINE IN STREET
INSIDE ROW



WATER LINE IN EASEMENT
OUTSIDE ROW

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE: **WATER DETAILS** DESCRIPTION: **FIRE HYDRANT PLACEMENT** DRAWN BY: CHECKED BY: FILE: W9-Fire Hydrant Placement.dwg	DATE: APRIL 2015 REVISED --- --- --- ---	SHEET: **W9**

VICINITY MAP:

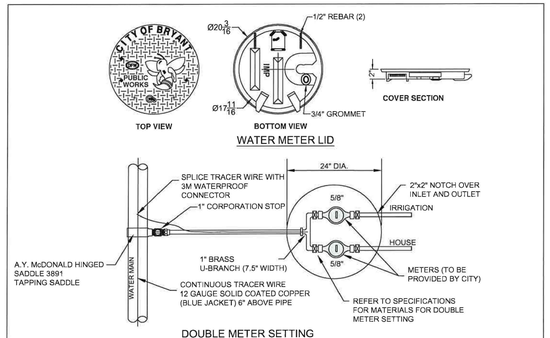


NOTES:

1. ALL WATER & SANITARY SEWER TRENCHES WHICH ARE UNDER THE PROPOSED STREETS MUST BE BACKFILLED AS SHOWN ON THE TRENCHING, BEDDING, AND BACKFILL STANDARD DETAIL.
2. WATER AND SEWER LINES SHALL MAINTAIN A MINIMUM OF HORIZONTAL SEPARATION OF 10 FEET, EDGE TO EDGE, ALL WAYS.
3. WATER AND SEWER LINES SHALL MAINTAIN A MINIMUM VERTICAL SEPARATION OF 18 INCHES WITH THE WATER LINE CROSSING ABOVE THE SEWER LINE.
4. ALL SEWER LINES SHALL MAINTAIN 10 FEET MINIMUM HORIZONTAL SEPARATION FROM ALL WATER MAIN.
5. A MINIMUM OF 24-INCHES OF SEPARATION IS REQUIRED BETWEEN SERVICE TAPS.
6. ALL METER BOXES SHALL BE INSTALLED IN NON-PAVED AREAS. ANY METER BOX THAT GETS PLACED IN A PAVED AREA SHALL BE RELOCATED AT THE OWNERS EXPENSE BEFORE A WATER METER WILL BE INSTALLED.

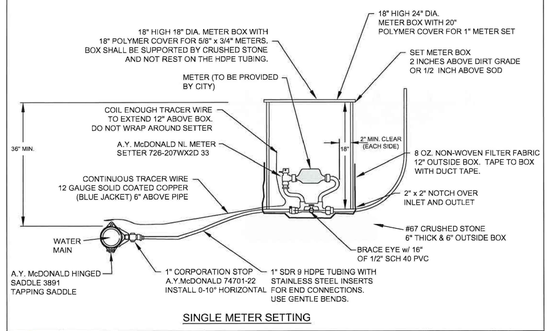
SERVICE METER WITH WATER MAIN UNDER PAVEMENT

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE: **WATER DETAILS** DESCRIPTION: **METER SERVICE LINE UNDER PAVEMENT** DRAWN BY: CHECKED BY: FILE: W11-Water Service Line Under Pavement.dwg	DATE: APRIL 2015 REVISED --- --- --- ---	SHEET: **W11**



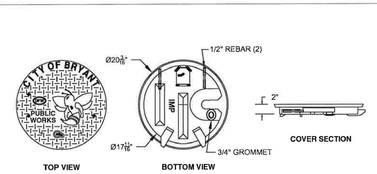
WATER METER LID

DOUBLE METER SETTING
ONLY FOR 1 LOT

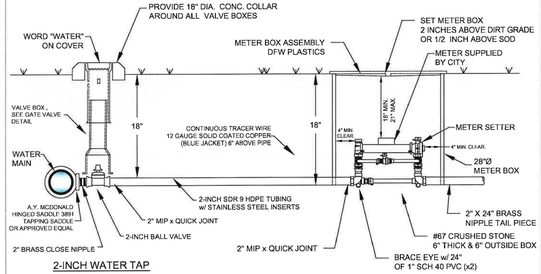


SINGLE METER SETTING

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE: **WATER DETAILS** DESCRIPTION: **METER SETTINGS** DRAWN BY: CHECKED BY: FILE: W10-Water Settings.dwg	DATE: APRIL 2015 REVISED --- --- --- ---	SHEET: **W10**



WATER METER LID



2-INCH WATER TAP

2-INCH METER SETTER

NOTES:

1. COORDINATE INSTALLATION AND CONFIGURATIONOF ALL 1-1/2" AND LARGER METER SETTINGS WITH THE CITY.
2. ALL METER BOXES SHALL BE INSTALLED IN NON-PAVED AREAS. ANY METER BOX THAT GETS PLACED IN A PAVED AREA SHALL BE RELOCATED AT THE OWNER'S EXPENSE BEFORE A WATER METER WILL BE INSTALLED.
3. SUPPORT METER INSTALLATION WITH 1"x24" SCH40 PVC THROUGH EACH BRACE EYE.

2" WATER SERVICE AND WATER METER

CITY OF BRYANT, AR WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	TITLE: **WATER DETAILS** DESCRIPTION: **2" WATER METER** DRAWN BY: CHECKED BY: FILE: W12-2 Inch Water Meter.dwg	DATE: APRIL 2015 REVISED --- --- --- ---	SHEET: **W12**

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
JAMES ALLEN HOPE
NO. 20676
11-25-2025

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

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ENGINEERS - SURVEYORS
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Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

FOR USE AND BENEFIT OF:
RYE GENERAL CONTRACTORS

MARKET PLACE II
WATER DETAILS 2
6128 HIGHWAY 5, BRYANT, SALINE COUNTY, ARKANSAS

DATE:	11.25.25	C.A.D. BY:	DRAWING NUMBER: 25-0608
REVISED:		CHECKED BY:	
SHEET:	C-3.8	SCALE:	

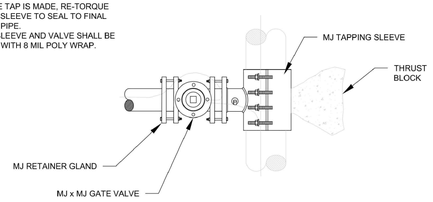
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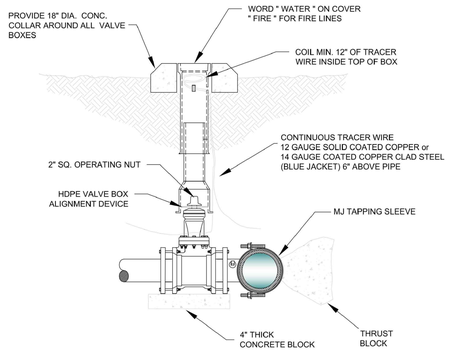
E:\2- HOPE CONSULTING\1- PROJECTS FILES\25-0608 LOT 22R MARKET PLACE-II PHS\CIVIL\DWG\25-0608 LOT 22R MARKET PLACE-II PHS CIVIL 11.20.25.DWG

NOTES:

1. TAPPING SLEEVE SHALL BE SMITH-BLAIR 662 OR FORD FAST.
2. AFTER THE TAP IS MADE, RE-TORQUE BOLTS ON SLEEVE TO SEAL TO FINAL SHAPE OF PIPE.
3. TAPPING SLEEVE AND VALVE SHALL BE WRAPPED WITH 8 MIL POLY WRAP.



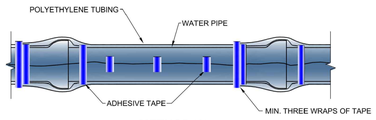
PLAN VIEW



PROFILE VIEW

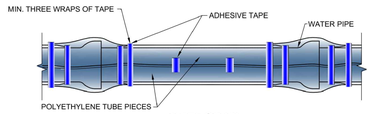
CITY OF BRYANT, AR	TITLE:	WATER DETAILS	DATE: APRIL 2015	SHEET:
WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	DESCRIPTION:	TAPPING SLEEVE AND VALVE	REVISED	W13
	DRAWN BY:	CHECKED BY:	FILE: W13-Tapping Sleeve and Valve.dwg	

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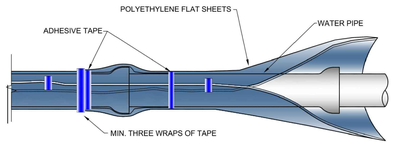
METHOD 'A'

METHOD 'A' USES ONE LENGTH OF POLYETHYLENE TUBE, OVERLAPPED AT THE JOINTS A MINIMUM OF 2 FEET.



METHOD 'B'

METHOD 'B' USES SEPARATE PIECES OF POLYETHYLENE TUBE FOR THE BARREL OF THE PIPE AND THE JOINTS. SHORT PIECES SHALL BE APPROXIMATELY 6" LONG AND OVERLAP BARREL SECTION BY A MINIMUM OF 2 FEET.



METHOD 'C'

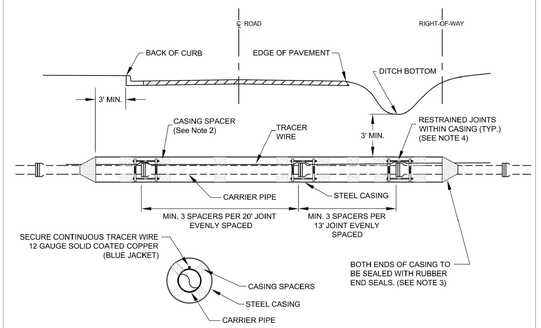
METHOD 'C' - USED FOR PIPE-SHAPED AND ODD- SHAPED APPURTENANCES SUCH AS BENDS, REDUCERS, OFFSETS, VALVES, TEES, ETC.

ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE POLY WRAPPED.

THE ANSI/AWWA C105/A21.5 STANDARD OUTLINES THREE METHODS OF INSTALLING POLYETHYLENE ENCASEMENT/ SLEEVING.

CITY OF BRYANT, AR	TITLE:	WATER DETAILS	DATE: APRIL 2015	SHEET:
WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	DESCRIPTION:	POLYETHYLENE PROTECTION MATERIAL	REVISED	W14
	DRAWN BY:	CHECKED BY:	FILE: W14-Poly Wrap.dwg	

4/16/2015 11:46:29 AM



NOTES:

1. STEEL CASING SHALL BE CONSTRUCTED OF SPIRAL OR STRAIGHT WELDED STEEL WITH A MINIMUM DIAMETER AND THICKNESS AS SHOWN BELOW (SEE TABLE).
2. PROVIDE CASING SPACERS BY CASCADE MODEL CCS AS MANUFACTURED BY CASCADE WATERWORKS MFG. CO., OR APPROVED EQUAL.
3. PROVIDE END SEALS BY CASCADE MODEL CCES AS MANUFACTURED BY CASCADE WATERWORKS MFG. CO., OR APPROVED EQUAL.
4. WHERE ENCASEMENTS ARE GREATER THAN 25 FEET IN LENGTH, SELF-RESTRAINING GASKETS OR BELL RESTRAINTS SHALL BE USED FOR ALL JOINTS INSIDE THE ENCASEMENT PIPE AND FOR THE FIRST JOINT IN EACH DIRECTION OUTSIDE THE ENCASEMENT PIPE.
5. BELL RESTRAINTS FOR PVC SHALL BE SERIES1900 RESTRAINT HARNESS AND BELL RESTRAINTS FOR DIP SHALL BE SERIES 1700 RESTRAINT HARNESS BY EBAA IRON INC., OR APPROVED EQUAL.
6. DIRECT BURY STEEL ENCASEMENT SHALL BE POLY WRAPPED.
7. JACK AND BORE STEEL ENCASEMENT SHALL HAVE 17# HP MAGNESIUM ANODES CAD WELDED TO THE END OF THE ENCASEMENT PIPE.

CARRIER AND CASING SIZES

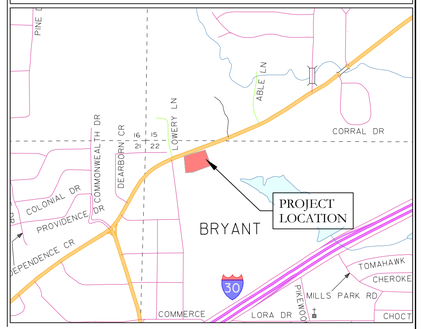
CARRIER (ID)	2"	3"	4"	6"	8	10"	12"
CASING (ID)	5"	6"	8"	12"	16"	20"	24"
CASING WALL THICKNESS	0.250	0.250	0.250	0.250	0.250	0.250	0.375
CARRIER (ID)	14" - 16"	18" - 20"	24"	30"	36"	42"	48"
CASING (ID)	30"	36"	42"	48"	54"	60"	72"
CASING WALL THICKNESS	0.375	0.500	0.625	0.625	0.625	0.625	0.750

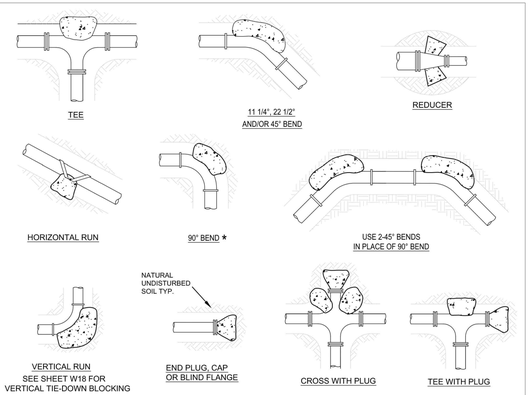
STEEL ENCASEMENT

CITY OF BRYANT, AR	TITLE:	WATER DETAILS	DATE: APRIL 2015	SHEET:
WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	DESCRIPTION:	STEEL ENCASEMENT	REVISED	W15
	DRAWN BY:	CHECKED BY:	FILE: W15-Steel Encasement.dwg	

4/16/2015 11:46:31 AM

VICINITY MAP:





THRUST BLOCK SCHEDULE

(2000 PSF SOIL, 200 PSI WATER PRESSURE, 100 PSI WATER HAMMER)

FITTING SIZE	BEARING AREA OF THRUST BLOCKS IN SQ. FT. (HORIZONTAL BENDS) PLUG TEE OR CAP	BEND ANGLE 90° ★	45°	22 1/2°	11 1/4°	FITTING SIZE	VOLUME OF THRUST BLOCK IN CU. FEET (VERTICAL BENDS) BEND ANGLE 90° ★	45°	22 1/2°	11 1/4°	ROD DIAM.	EMBED-MENT
2, 3 & 4	1.9	2.7	1.4	0.7	0.4	2, 3 & 4	35.5	19.2	9.8	4.9	.50"	30"
6	5.6	7.9	4.3	2.2	1.1	6	105.8	57.2	29.2	14.7	.75"	30"
8	9.6	13.8	7.4	3.8	1.9	8	181.9	98.5	50.2	25.2	.75"	30"
12	20.5	29.0	15.7	8.0	4.0	12	387.1	209.5	106.8	53.7	1.0"	30"
16	35.7	50.4	27.3	13.9	7.0	16	672.6	364.0	185.6	93.2	1.0"	36"
18	44.8	63.4	34.3	17.5	18.8	18	844.7	457.2	233.1	117.1	1.0"	36"
24	78.4	110.9	60.0	30.6	15.4	24	1478.7	800.3	408.0	205.0	1.5"	36"

★ 90 DEGREE BENDS SHALL ONLY BE USED ON A BY-EXCEPTION BASIS, AND MUST EACH BE SPECIFICALLY APPROVED BY CITY.

THRUST BLOCK NOTES:

1. CONCRETE FOR THRUST BLOCKS - CLASS A CONCRETE SHALL DEVELOP NOT LESS THAN 3000 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS AND BE PLACED AGAINST UNDISTURBED SOIL.
2. ALL BENDS, BOTH HORIZONTAL AND VERTICAL, SHALL BE BACKED WITH CONCRETE. VERTICAL BENDS SHALL BE PLACED ON CONCRETE PADS WHERE BENDS TURN UP, OR LOADED WHERE BENDS TURN DOWN.
3. WRAP PIPE JOINTS IN 8 MIL "POLYETHLENE" BEFORE PLACING CONCRETE.
4. BEARING AREA SHOWN IN TABLE, IS BASED UPON A 2000 LB/SF. SOIL BEARING, AND UPON A PIPELINE PRESSURE OF 200 psi. PLUS 100 psi. WATER HAMMER. AREAS SHOWN SHALL BE ADJUSTED, SHOULD FIELD CONDITIONS VARY.
5. MJ RESTRAINTS ARE REQUIRED FOR ALL FITTINGS.
6. USE LONG-RADIUS FITTINGS WHEREVER POSSIBLE.
7. ALL BOLTS FOR FITTINGS SHALL BE 316 STAINLESS STEEL.
8. ALL DUCTILE IRON FITTINGS SHALL BE FUSION-BONDED EPOXY COATED INSIDE AND OUTSIDE IN ACCORDANCE WITH ANSI/AWWA C116/A21.16.
9. UNIT WEIGHT OF CONCRETE FOR VERTICAL THRUST BLOCKS IS 150 LBS/CU. FT.

THRUST BLOCKING

CITY OF BRYANT, AR	TITLE:	WATER DETAILS	DATE: APRIL 2015	SHEET:
WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	DESCRIPTION:	THRUST BLOCKING	REVISED	W16
	DRAWN BY:	CHECKED BY:	FILE: W16-Thrust Blocking.dwg	

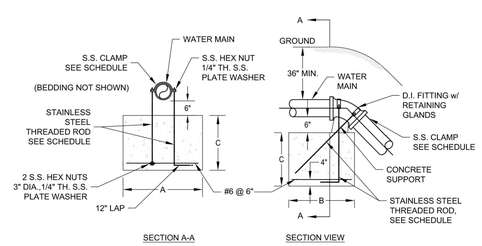
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BLOCKING SCHEDULE

PIPE SIZE	BENDS	45°	22 1/2°	11 1/4°	ROD DIA.
8"	VOLUME REQ'D (CU. FT.)	98.5	50.2	25.2	3/4 IN.
	A (FT.)	5.00'	4.00'	3.00'	
	B (FT.)	4.00'	3.20'	2.80'	
	C (FT.)	5.00'	4.00'	3.00'	
	MIN. CLAMP (2 EA.)	3/8 IN. x 2 IN.			
12"	VOLUME REQ'D (CU. FT.)	209.5	106.8	53.7	3/4 IN.
	A (FT.)	6.00'	5.00'	4.00'	
	B (FT.)	6.00'	4.25'	3.50'	
	C (FT.)	6.00'	5.00'	4.00'	
	MIN. CLAMP (2 EA.)	1/2 IN. x 2 IN.			
18"	VOLUME REQ'D (CU. FT.)	457.2	233.1	117.1	1 IN.
	A (FT.)	8.00'	6.50'	5.00'	
	B (FT.)	7.25'	5.50'	4.75'	
	C (FT.)	8.00'	6.50'	5.00'	
	MIN. CLAMP (2 EA.)	5/8 IN. x 3 IN.			
24"	VOLUME REQ'D (CU. FT.)	800.3	408.0	205.0	1 1/4 IN.
	A (FT.)	9.50'	7.50'	6.00'	
	B (FT.)	9.00'	7.25'	5.75'	
	C (FT.)	9.50'	7.50'	6.00'	
	MIN. CLAMP (2 EA.)	5/8 IN. x 3 IN.			

VOLUME CALCULATED ON THE BASIS OF CONCRETE REACTING THRUST ON THE RESPECTIVE BENDS UNDER AN INTERNAL PRESSURE OF 250 PSI, 50 PSI SURGE AND THE WEIGHT OF CONCRETE IS 150 POUNDS PER CU. FT.

ALL FITTINGS SHALL BE MECHANICAL JOINTS WITH RETAINING GLANDS. BEDDING NOT SHOWN



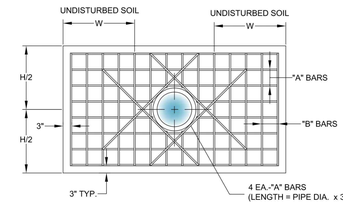
VERTICAL TIE-DOWN BLOCKING

CITY OF BRYANT, AR	TITLE:	WATER DETAILS	DATE: APRIL 2015	SHEET:
WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	DESCRIPTION:	VERTICAL TIE-DOWN BLOCKING	REVISED	W17
	DRAWN BY:	CHECKED BY:	FILE: W17-Vertical Tie-Down Blocking.dwg	

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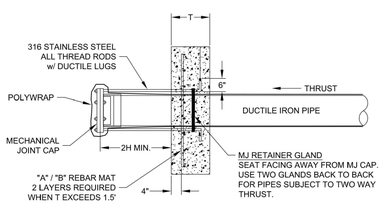
ANCHOR COLLAR SCHEDULE

PIPE SIZE	★ MINIMUM DIMENSIONS ★ W	H	T	REINFORCING BARS "A" BARS	"B" BARS
6"	1.5'	2.0'	1.0'	#6 @ 6"	#6 @ 6"
8"	2.0'	2.5'	1.0'	#6 @ 6"	#6 @ 6"
12"	2.5'	4.0'	1.5'	#6 @ 6"	#6 @ 6"
16"	3.5'	5.0'	1.5'	#6 @ 6"	#6 @ 6"
20"	5.0'	5.5'	2.0'	#6 @ 6"	#6 @ 6"
24"	6.5'	6.0'	2.0'	#7 @ 6"	#7 @ 10"



NOTES:

1. DESIGN PRESSURE IS 200 PSI PLUS 100 PSI SURGE AND 2,000 PSI SOIL BEARING.
2. ALL DIMENSIONS ARE MINIMUM REQUIREMENTS. ACTUAL FIELD CONDITIONS MAY REQUIRE LARGER DIMENSIONS.
3. ALL RETAINER GLANDS SHALL BE MEGA-LUG BY EBAA IRON.



CITY OF BRYANT, AR	TITLE:	WATER DETAILS	DATE: APRIL 2015	SHEET:
WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	DESCRIPTION:	ANCHOR COLLAR	REVISED	W18
	DRAWN BY:	CHECKED BY:	FILE: W18-Anchor Collar.dwg	

4/16/2015 11:47:09 AM

STATE OF ARKANSAS ★★★ LICENSED PROFESSIONAL ENGINEER Jazz K. Nolan NO. 20876 11-25-2025

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

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

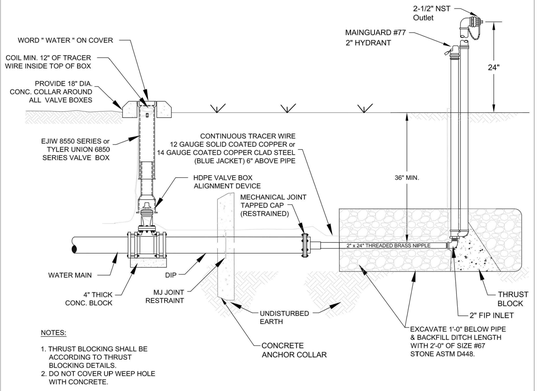
FOR USE AND BENEFIT OF:
RYE GENERAL CONTRACTORS

MARKET PLACE II
WATER DETAILS 3
6128 HIGHWAY 5, BRYANT, SALINE COUNTY, ARKANSAS

DATE:	11.25.25	C.A.D. BY:	DRAWING NUMBER: 25-0608
REVISED:		CHECKED BY:	
SHEET:	C-3.9	SCALE:	

500	01S	14W	0	22	440	62	1762

E:\2-HOPE CONSULTING\1-PROJECTS FILES\25-0608 LOT 22R MARKET PLACE-II PH1\CIVIL\DWGS\25-0608 LOT 22R MARKET PLACE-II PH1 11.20.25.DWG



NOTES:

1. THRUST BLOCKING SHALL BE ACCORDING TO THRUST BLOCKING DETAILS.
2. DO NOT COVER UP WEEP HOLE WITH CONCRETE.

BLOW-OFF ASSEMBLY

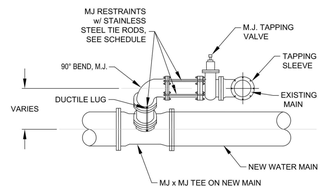
CITY OF BRYANT, AR	TITLE:	WATER DETAILS	DATE: APRIL 2015	SHEET:
WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	DESCRIPTION:	BLOW-OFF ASSEMBLY	REVISED	W19
	DRAWN BY:	CHECKED BY:	FILE: W19-Blow-off Assembly.dwg	

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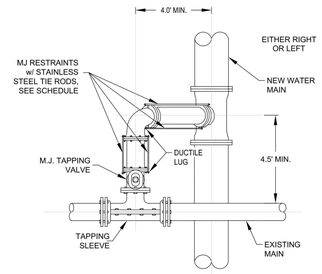
NOTES:

1. SWING CONNECTIONS USING 90° BENDS SHALL BE PERMITTED BY THE CITY ON A CASE BY CASE BASIS.
2. CONTRACTOR SHALL LOCATE EXISTING MAIN IN ADVANCE OF LAYING NEW LINE IN ORDER TO ASSURE ADEQUATE LENGTH TO ADJUST DEPTH OF NEW MAIN.
3. DIMENSIONS SHOWN ARE RECOMMENDED MINIMUMS TO PROVIDE ADEQUATE ROOM FOR TIGHTENING BOLTS ON JOINTS (OTHER DIMENSIONS MAY BE USED).
4. PROVIDE ALL THREAD STAINLESS STEEL TIE RODS WITH DUCTILE LUGS FOR ANCHORING ALL JOINTS.
5. ROTATE TEE UP & ELBOW DOWN AS REQUIRED TO MATCH.
6. TRACER WIRE SHALL BE INSTALLED ON ALL NEW WATER LINES.
7. ALL FITTINGS, VALVES, AND DIP SHALL BE POLY WRAPPED.

SCHEDULE OF TIE RODS		
SIZE	NUMBER OF ROD PER FITTING	DIAMETER OF S.S. RODS
8"	4	3/4"
12"	4	3/4"



SECTION VIEW



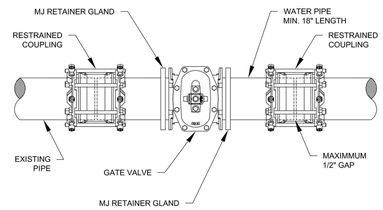
PLAN VIEW

CITY OF BRYANT, AR	TITLE:	WATER DETAILS	DATE: APRIL 2015	SHEET:
WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	DESCRIPTION:	SWING CONNECTION - NEW MAIN TO EXISTING MAIN	REVISED	W20
	DRAWN BY:	CHECKED BY:	FILE: W20-Swing Connection.dwg	

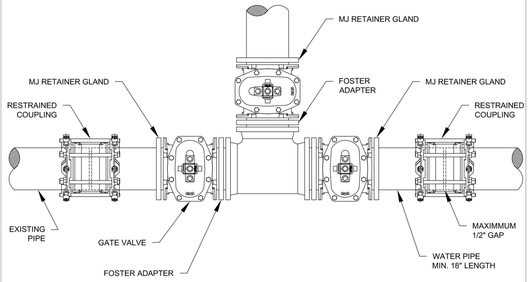
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NOTES:

1. ALL VALVES SHALL BE SECURELY ANCHORED.
2. ALL HARDWARE SHALL BE 316 STAINLESS STEEL.
3. IF DEPTH OF BURY EXCEEDS 4 FT., A VALVE STEM EXTENSION SHALL BE REQUIRED. THE VALVE STEM EXTENSION NUT SHALL BE WITHIN 24-INCHES TO 12-INCHES OF THE FINISHED SURFACE.



VALVE CUT-IN

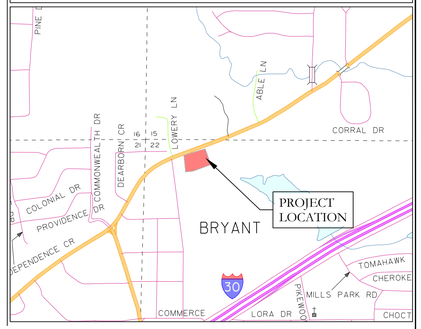


TEE AND VALVES CUT-IN

CITY OF BRYANT, AR	TITLE:	WATER DETAILS	DATE: APRIL 2015	SHEET:
WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	DESCRIPTION:	VALVE CUT-IN	REVISED	W21
	DRAWN BY:	CHECKED BY:	FILE: W21-Valve Cut In.dwg	

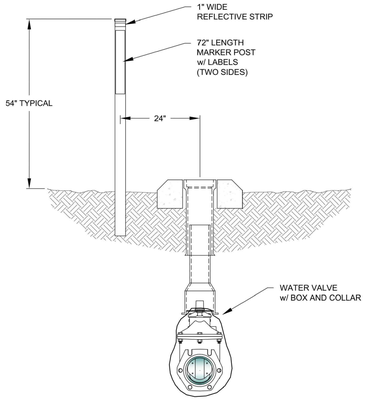
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VICINITY MAP:



NOTES:

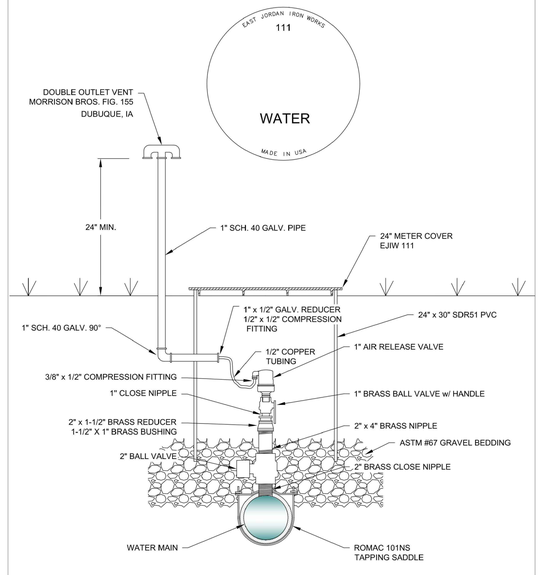
1. WATER LINE MARKERS SHALL BE TRI-VIEW MARKING SYSTEM BY RHINO MARKING AND PROTECTION SYSTEMS OR CARSONITE INTERNATIONAL DUAL-SIDED UTILITY MARKER (CIB-380).
2. THE UPPERMOST PORTION OF THE CARSONITE MARKER SHALL BE MADE OF VISIBILITY ENHANCER (CVE-360).
3. TRI-VIEW MARKERS DO NOT REQUIRE VISIBILITY ENHANCERS.
4. AN ADDITIONAL WHITE 1" WIDE REFLECTIVE TAPE (3M OR EQUAL) SHALL BE PLACED AROUND THE FULL CIRCUMFERENCE OF THE TOP OF THE MARKER.



VALVE MARKER

CITY OF BRYANT, AR	TITLE:	WATER DETAILS	DATE: APRIL 2015	SHEET:
WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	DESCRIPTION:	VALVE MARKER	REVISED	W22
	DRAWN BY:	CHECKED BY:	FILE: W22-Valve Marker.dwg	

4/16/2015 11:47:34 AM

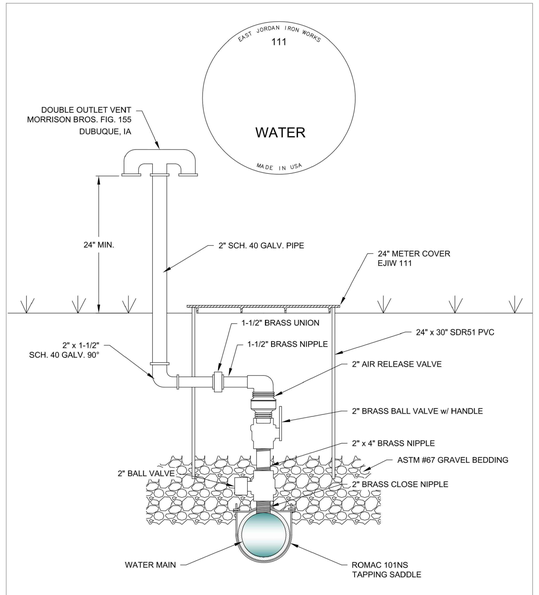


NOTES:

1. AIR VALVES SHALL HAVE NPT INLET AND OUTLETS.
2. TOP OF AIR VALVE SHALL BE MIN. 12" BELOW GROUND.
3. SEAL WALL PENETRATIONS WITH BUTYL SEALANT..

CITY OF BRYANT, AR	TITLE:	WATER DETAILS	DATE: APRIL 2015	SHEET:
WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	DESCRIPTION:	1" COMBINATION AIR VALVE	REVISED	W23
	DRAWN BY:	CHECKED BY:	FILE: W23-1inch Air Release.dwg	

4/16/2015 11:47:37 AM



NOTES:

1. AIR VALVES SHALL HAVE NPT INLET AND OUTLETS.
2. TOP OF AIR VALVE SHALL BE MIN. 12" BELOW GROUND.
3. SEAL WALL PENETRATIONS WITH BUTYL SEALANT..

CITY OF BRYANT, AR	TITLE:	WATER DETAILS	DATE: APRIL 2015	SHEET:
WATER UTILITIES 210 S.W. 3rd. STREET BRYANT, AR PHONE: (501) 943-0468	DESCRIPTION:	2" COMBINATION AIR VALVE	REVISED	W24
	DRAWN BY:	CHECKED BY:	FILE: W24-2inch Air Release.dwg	

4/16/2015 11:47:43 AM

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
JEFFREY TAMZIDUL HOPE
NO. 20876
11-25-2025

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

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

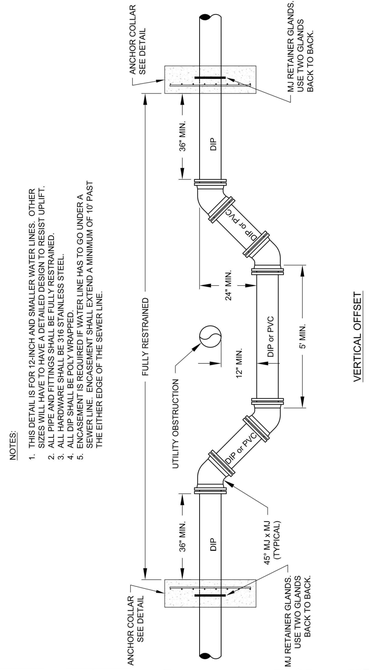
FOR USE AND BENEFIT OF:
RYE GENERAL CONTRACTORS

MARKET PLACE II
WATER DETAILS 4
6128 HIGHWAY 5, BRYANT, SALINE COUNTY, ARKANSAS

DATE:	11.25.25	C.A.D. BY:	DRAWING NUMBER:
REVISED:		CHECKED BY:	25-0608
SHEET:	C-3.10	SCALE:	

500	01S	14W	0	22	440	62	1762

E:\2. HOPE CONSULTING\1. PROJECTS FILES\2. 25-0608 LOT 22R MARKET PLACE-II PHES\CIVIL\DWG\25-0608 LOT 22R MARKET PLACE-II PHES 11.20.25.DWG



NOTES:

1. THIS DETAIL IS FOR 12-INCH (AND SMALLER WATER LINES. OTHER SPECIAL INSTALLATIONS SHALL BE MADE AS DIRECTED BY ENGINEER.
2. ALL PIPE AND FITTINGS SHALL BE FULLY RESTRAINED.
3. ALL HARDWARE SHALL BE 316 STAINLESS STEEL.
4. ALL DUCTILE IRON PIPE SHALL BE POLYWRAPPED.
5. ENCASEMENT IS REQUIRED IF WATER LINE HAS TO GO UNDER A SEWER LINE. ENCASEMENT SHALL EXTEND A MINIMUM OF 10' PAST THE EITHER EDGE OF THE SEWER LINE.

VERTICAL OFFSET

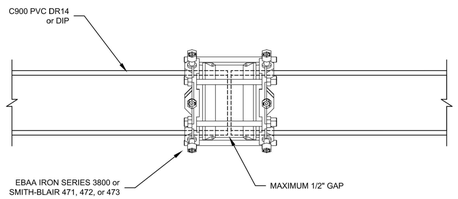
CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE:	WATER DETAILS	DATE: APRIL 2015	SHEET:
DESCRIPTION:	VERTICAL OFFSET	REVISED ---- ---- ---- ----	W25
DRAWN BY:	CHECKED BY:	FILE: W25-Vertical Offset.dwg	

4/16/2015 11:47:58 AM

NOTE:

RESTRAINED COUPLINGS SHALL BE USED WHEN JOINING TWO CUT PIECES OF PIPE, GENERALLY WHEN CUTTING IN VALVES AND TEES.

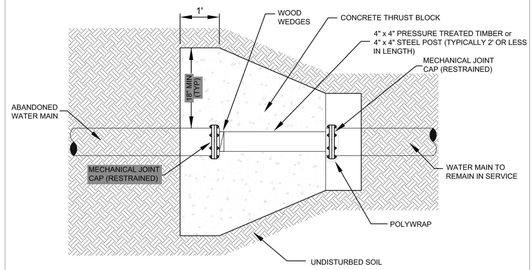


RESTRAINED COUPLING

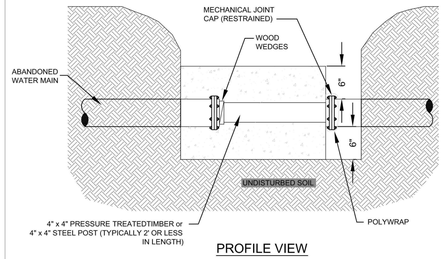
CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE:	WATER DETAILS	DATE: APRIL 2015	SHEET:
DESCRIPTION:	RESTRAINED COUPLING	REVISED ---- ---- ---- ----	W26
DRAWN BY:	CHECKED BY:	FILE: W26-Restrained Coupling.dwg	

4/16/2015 11:47:53 AM



PLAN VIEW



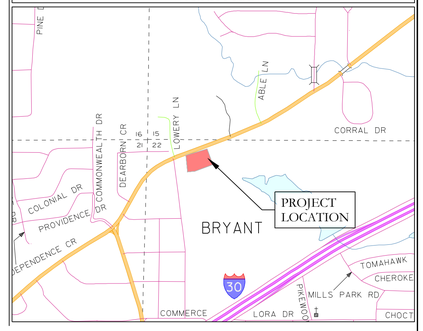
PROFILE VIEW

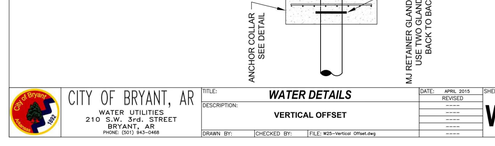
CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE:	WATER DETAILS	DATE: APRIL 2015	SHEET:
DESCRIPTION:	CUT AND CAP WATER LINE	REVISED ---- ---- ---- ----	W27
DRAWN BY:	CHECKED BY:	FILE: W27-Cut and Cap.dwg	

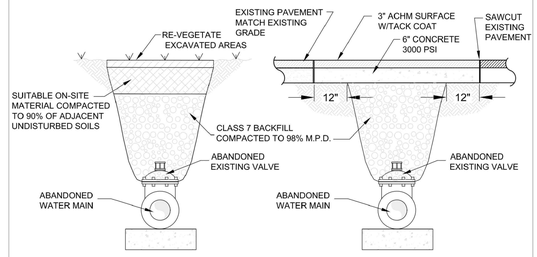
4/16/2015 11:47:58 AM

VICINITY MAP:





ABANDON WATER VALVE



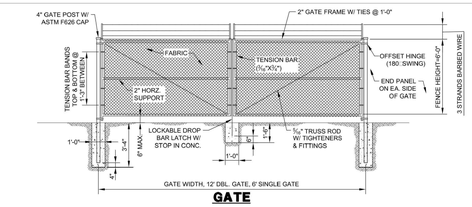
TRENCH AFTER VALVE BOX REMOVED (NON-PAVED AREA)

TRENCH AFTER VALVE BOX REMOVED (UNDER ASPHALT)

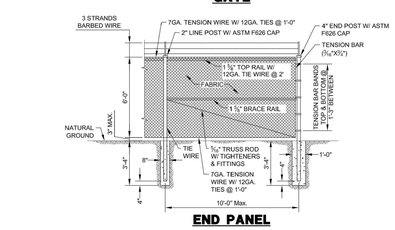
CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE:	WATER DETAILS	DATE: APRIL 2015	SHEET:
DESCRIPTION:	ABANDON WATER VALVE	REVISED ---- ---- ---- ----	W28
DRAWN BY:	CHECKED BY:	FILE: W28-Abandon Water Valve.dwg	

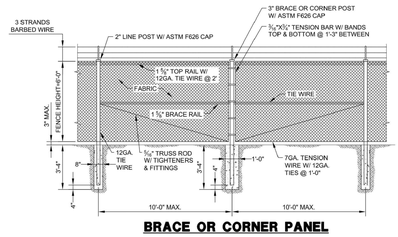
4/21/2015 11:48:03 AM



GATE



END PANEL

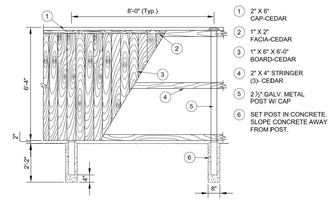


BRACE OR CORNER PANEL

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE:	WATER DETAILS	DATE: Sept. 10, 2014	SHEET:
DESCRIPTION:	CHAIN LINK FENCE DETAILS	REVISED ---- ---- ---- ----	W29
DRAWN BY: ???	CHECKED BY: ???	FILE: W29-Chain Link Fence Details.dwg	

4/21/2015 11:55:08 AM



BOARD & BATT CEDAR FENCE

CITY OF BRYANT, AR
WATER UTILITIES
210 S.W. 3rd. STREET
BRYANT, AR
PHONE: (501) 943-0468

TITLE:	WATER DETAILS	DATE: APRIL 2015	SHEET:
DESCRIPTION:	WOOD FENCE DETAIL	REVISED ---- ---- ---- ----	W30
DRAWN BY:	CHECKED BY:	FILE: W29_W30-Fence Details.dwg	

4/16/2015 11:57:32 AM

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
NO. 20876
ZAMZIDUL ISLAM
11-25-2025

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No. 1931
ARKANSAS

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RYE GENERAL CONTRACTORS

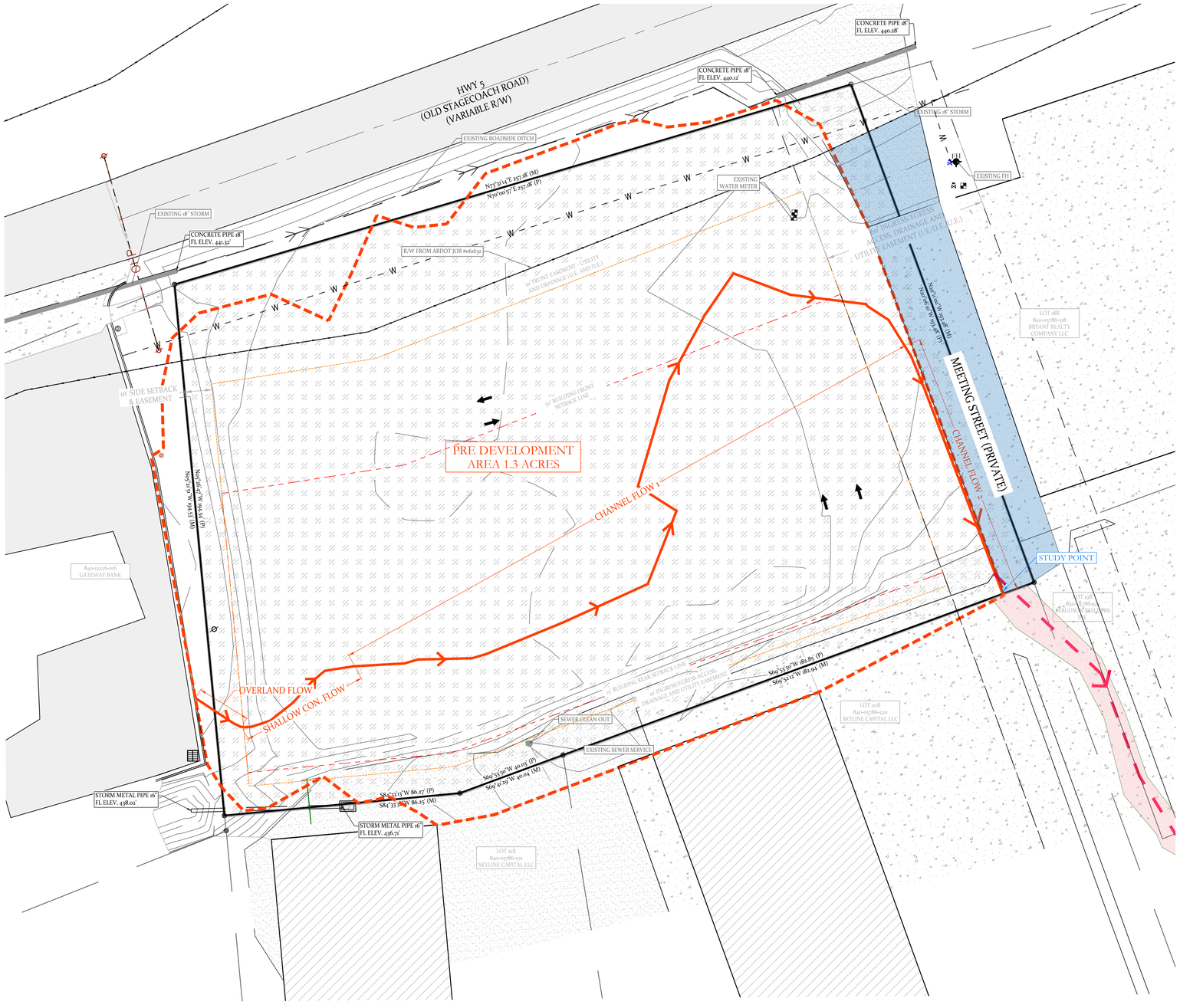
MARKET PLACE II
WATER DETAILS 5

6128 HIGHWAY 5, BRYANT, SALINE COUNTY, ARKANSAS

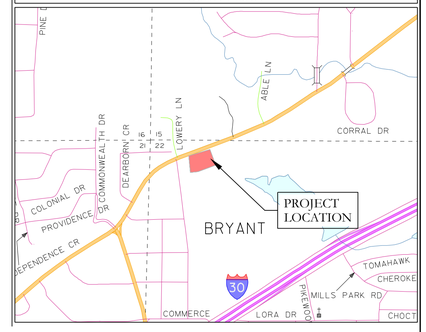
DATE:	11.25.25	C.A.D. BY:	DRAWING NUMBER:
REVISED:		CHECKED BY:	25-0608
SHEET:	C-3.11	SCALE:	

500	01S	14W	0	22	440	62	1762

E:\J. HOPE CONSULTING\1. PROJECTS\ FILES \7-25-0608 LOT 22R MARKET PLACE-II PHS\CIVIL\DWG\ 7-25-0608 LOT 22R MARKET PLACE-II PHS 11.20.25.DWG



VICINITY MAP:



PRE DEVELOPMENT AREA TOC:

Area A

Time of Concentration, tc (min)								
Area (ft2)	56814.3							
Area (Acre)	*1.30*							
Total Length, L (ft)	***480.0***							
Change in Elevation (ft)	9.2							
Slope, S (ft/ft)	*0.019*							
N (Coeff. Of roughness, Table 400-3)	0.100							
L_i (overland/sheet flow, ft)	10.0							
L_{scs}(shallow concentrated, ft)	60.0	Velocity, V (ft/sec)	Length, L (ft)	Height, h (ft)	Slope, S (ft/ft)	Mannings, n	Hydraulic Radius, R
L_{cs} (channel , ft)	310.0						
$t_i = 0.83 \frac{(N L_i)^{0.467}}{S^{0.5}}$, (min)	*2.93*		10.0	0.8	*0.080*		
$t_{scs} = \frac{L_{scs}}{60\,V}$, (min) , unpaved							
V=16.1345(S^0.5)	*0.29*	*3.42*	60.0	2.7	*0.045*		
$t_{cs} = \frac{L_{cs}}{60\,V}$, (min)							
$V = \frac{1.49}{n} R^{\frac{2}{3}} S^{\frac{1}{2}}$ Ch1	*4.49*	*1.15*	310.0	2.0	*0.006*	0.050	*0.333*
$V = \frac{1.49}{n} R^{\frac{2}{3}} S^{\frac{1}{2}}$ Ch2	*0.16*	*10.66*	100.0	3.7	*0.037*	0.011	*0.262*
Total time of concentration, tc (min)	**7.87**						
USE	**7.50**	**min**					

MARKET PLACE-II PHASE 3

PRE DEVELOPMENT DRAINAGE AREA

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

20' 10' 0 20'

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
SHAMZIDUL ISLAM
No. 20876
11-25-2025

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

OWNER:
Name: PHILLIP RYE
Address: 7416 PALM BEACH, BENTON
AR 72019
Phone: 501-317-9883
Email: philliprye@philliprye.com

DEVELOPER:
Name: RYE GENERAL CONTRACTORS
Address: 6128 HIGHWAY 5 NORTH
AR 72022
Phone:
Email:

SITE DATA	
TOTAL SITE AREA	*1.30 ACRES*
TOTAL DEVELOPMENT AREA	*1.30 ACRES*
GROSS BUILDING AREA	*BUILDING 111340 SQ. FT.*
BUILDING SETBACKS	*FRONT SETBACK LINE: 30' RIGHT SIDE SETBACK LINE: AS SHOWN REAR SETBACK LINE: 15' LEFT SIDE SETBACK LINE: 10'*
BUILDING HEIGHTS	*1 STORY*
BUSINESS TYPE	*RETAIL*
PARKING CALCULATION (PROVIDED)	*PROVIDED PARKING SPACES 41 (2 ADA SPACES)*

LEGEND

- PLSS Aliquot Corner
- Fnd. Corner Monument
- Set 1/2" Rebar/Cap (#664)
- Computed Point
(M)- As Measured
(P) - Per Deed or Plat Records
ESMT - Easement
B.S.L. - Building Setback Lines
- Clean Out
- Water Meter
- Power Pole
- Sewer Manhole
- Light Pole
- Telephone Pedestal
- Drainage Manhole
- Gas Meter
- Fence
- Overhead Power
- Sewer Line
- Water Line
- Telephone Line
- Electric Line
- Gas Line
- Existing Access Agreement
- Public Right-of-Way Dedication

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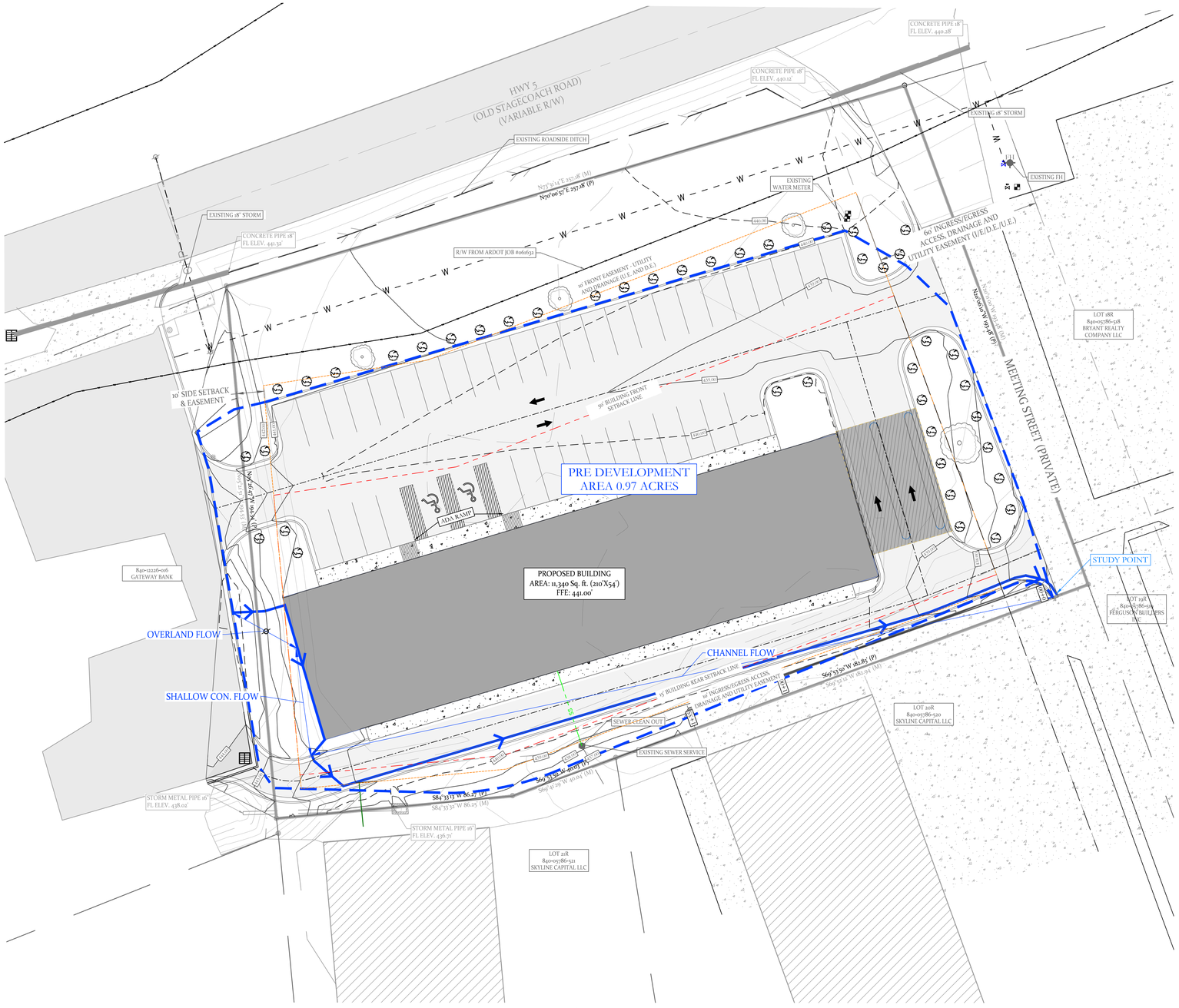
FOR USE AND BENEFIT OF:
RYE GENERAL CONTRACTORS

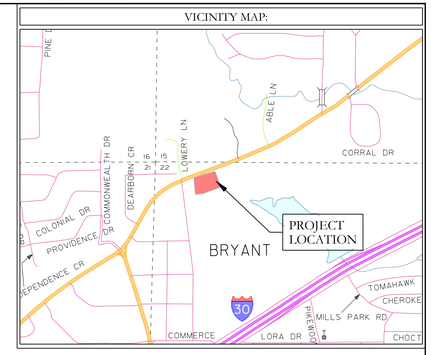
MARKET PLACE II
PRE DEVELOPMENT AREA TOC CALULATION
6128 HIGHWAY 5, BRYANT, SALINE COUNTY, ARKANSAS

DATE:	11.25.25	C.A.D. BY:	DRAWING NUMBER:
REVISED:		CHECKED BY:	25-0608
SHEET:	C-4.1	SCALE:	

500	01S	14W	0	22	440	62	1762

E:\2-HOPE CONSULTING\2025 PROJECTS\SEPTEMBER\25-0608 MARKET PLACE II PHASE III\CAD\25-0608 MARKET PLACE II PHASE III.DWG, 11/25/2025 1:07:29 PM, MARKET PLACE II PHASE III, 36"X24"DWG





POST DEVELOPMENT AREA TOC:

Time of Concentration, tc (min)

Area (ft2)	42090.7						
Area (Acre)	*0.97*						
Total Length, L (ft)	***370.0***						
Change in Elevation (ft)	10.8						
Slope, S (ft/ft)	*0.029*						
N (Coeff. Of roughness, Table 400-3)	0.400						
L_i (overland/sheet flow, ft)	*30.0*						
L_{scs}(shallow concentrated, ft)	*40.0*	Velocity, V (ft/sec)	Length, L (ft)	Height, h (ft)	Slope, S (ft/ft)	Mannings, n	Hydraulic Radius, R
L_{cs} (channel , ft)	300.0						
$t_i = 0.42\frac{(N\,L_i)^{0.8}}{P^{0.5}\,S^{0.4}}$, (min)	*3.72*		30.0	3.6	*0.120*		
$t_{scs} = \frac{L_{scs}}{60\,V}$, (min) , unpaved							
V=16.1345(S^0.5)	*0.83*	*0.81*	40.0	0.1	*0.003*		
$t_{cs} = \frac{L_{cs}}{60\,V}$, (min) $V = \frac{1.49}{n} R^{\frac{2}{3}} S^{\frac{1}{2}}$ Ch1	*0.54*	*9.35*	300.0	7.1	*0.024*	0.011	*0.300*
Total time of concentration, tc (min)	**5.08**						
USE	**5.00**	**min**					

MARKET PLACE-II PHASE 3

POST DEVELOPMENT AREA

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
11-25-2025

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

SITE DATA	
TOTAL SITE AREA	*1.30 ACRES*
TOTAL DEVELOPMENT AREA	*1.30 ACRES*
GROSS BUILDING AREA	*BUILDING 111340 SQ. FT.*
BUILDING SETBACKS	*FRONT SETBACK LINE: 50' RIGHT SIDE SETBACK LINE: AS SHOWN REAR SETBACK LINE: 15' LEFT SIDE SETBACK LINE: 10'*
BUILDING HEIGHTS	*1 STORY*
BUSINESS TYPE	*RETAIL*
PARKING CALCULATION (PROVIDED)	*PROVIDED PARKING SPACES 41 (2 ADA SPACES)*

LEGEND

- PLSS Aliquot Corner
- Fnd. Corner Monument
- Set 1/2" Rebar/Cap (1664)
- Computed Point
- (M)- As Measured
- (P)- Per Deed or Plat Records
- ESMT - Easement
- B.S.L. - Building Setback Lines
- Clean Out
- Water Meter
- Power Pole
- Sewer Manhole
- Light Pole
- Telephone Pedestal
- Drainage Manhole
- Gas Meter
- Fence
- Overhead Power
- Sewer Line
- Water Line
- Telephone Line
- Electric Line
- Gas Line
- Existing Access Agreement
- Public Right-of-Way Dedication

OWNER:
Name: PHILLIP RYE
Address: 7416 PALM BEACH, BENTON
AR 72019
Phone: 501-317-9883
Email: philliprye@philliprye.com

DEVELOPER:
Name: RYE GENERAL CONTRACTORS
Address: 6128 HIGHWAY 5 NORTH
AR 72022
Phone:
Email:

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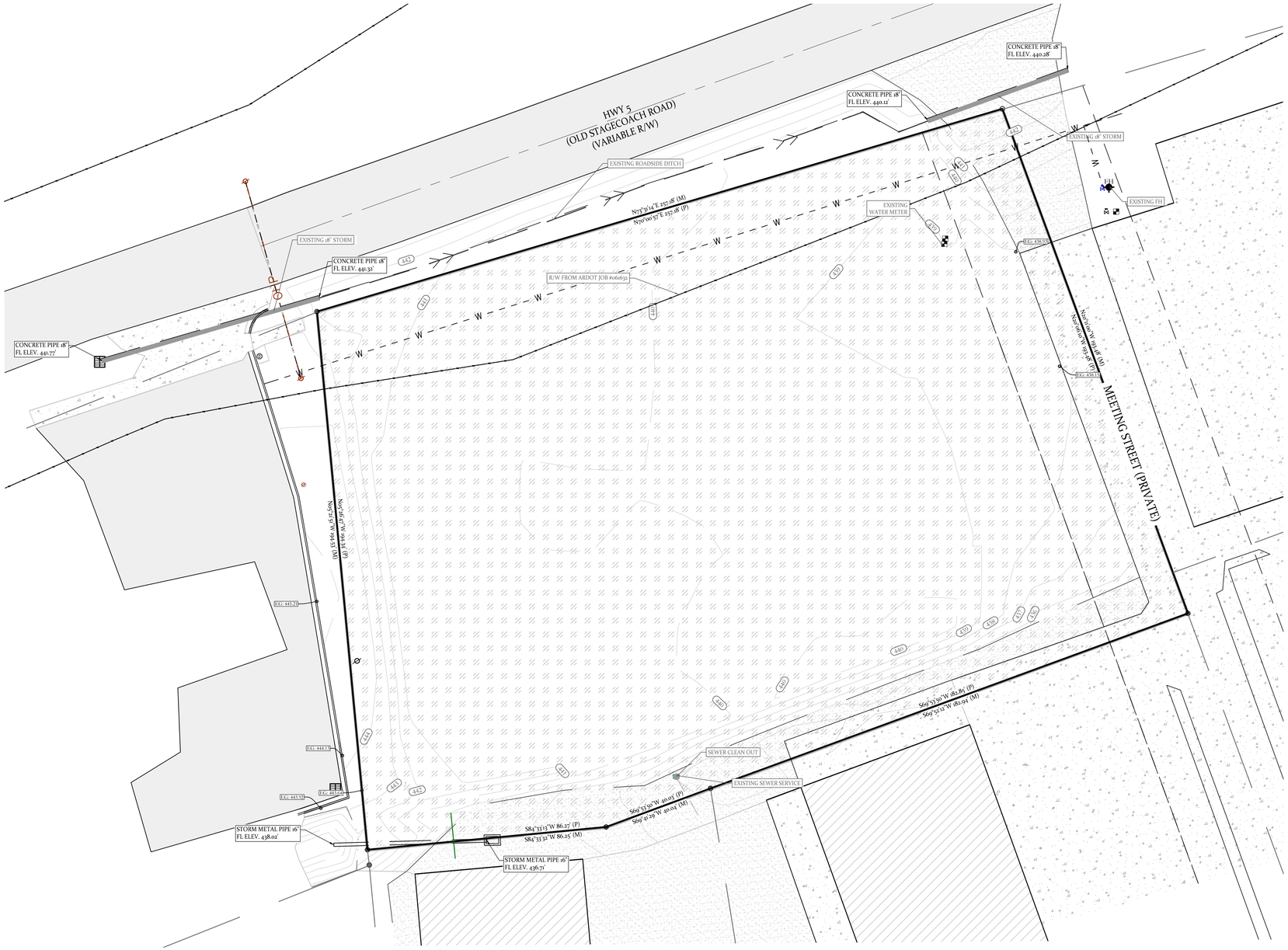
FOR USE AND BENEFIT OF:
RYE GENERAL CONTRACTORS

MARKET PLACE II
POST DEVELOPMET AREA TOC CALCULATION
6128 HIGHWAY 5, BRYANT, SALINE COUNTY, ARKANSAS

DATE:	11.25.25	C.A.D. BY:	DRAWING NUMBER:
REVISED:		CHECKED BY:	25-0608
SHEET:	C-4.2	SCALE:	

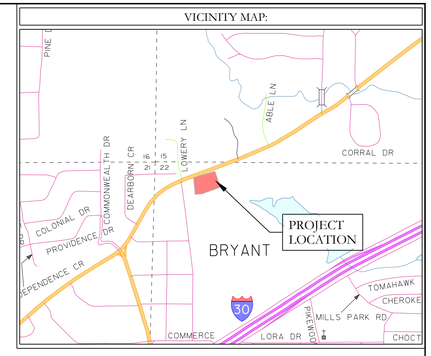
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P:\25 HOPE CONSULTING\25-0608 PROJECTS\25-0608 FILES\25-0608 FILE\798 MARKET PL AT C-II PHT\798 MARKET PL AT C-II PHT 11-25-25.DWG



MARKET PLACE-II PHASE 3

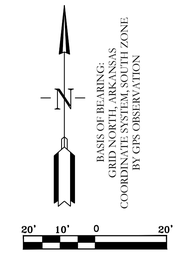
PRE DEVELOPMENT



RUNOFF CO-EFFICIENT FOR SURFACE TYPE		
HATCH TYPE	SURFACE TYPE	RUNOFF CO-EFFICIENT (100- yr)
	POOR CONDITION, AVERAGE SLOPE	0.53

DRAINAGE CALCULATION(PRE DEVELOPMENT)

				RAINFALL INTENSITY (inches/hr) (5 min Duration Rain)			
SURFACE TYPE	**RUNOFF CO-EFFICIENT (100-yr.)**	**AREA (ha)**	**TOTAL AREA (ha), A**	**5 YEAR**	**10 YEAR**	**25 YEAR**	**100 YEAR**
POOR CONDITION, AVERAGE SLOPE	0.53	1.3	1.3	7.28	8.21	9.43	11.2
PEAK DISCHARGE,Q = CIA				5.02 cfs	5.66 cfs	6.50 cfs	7.72 cfs



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NO. 20876
11-25-2025

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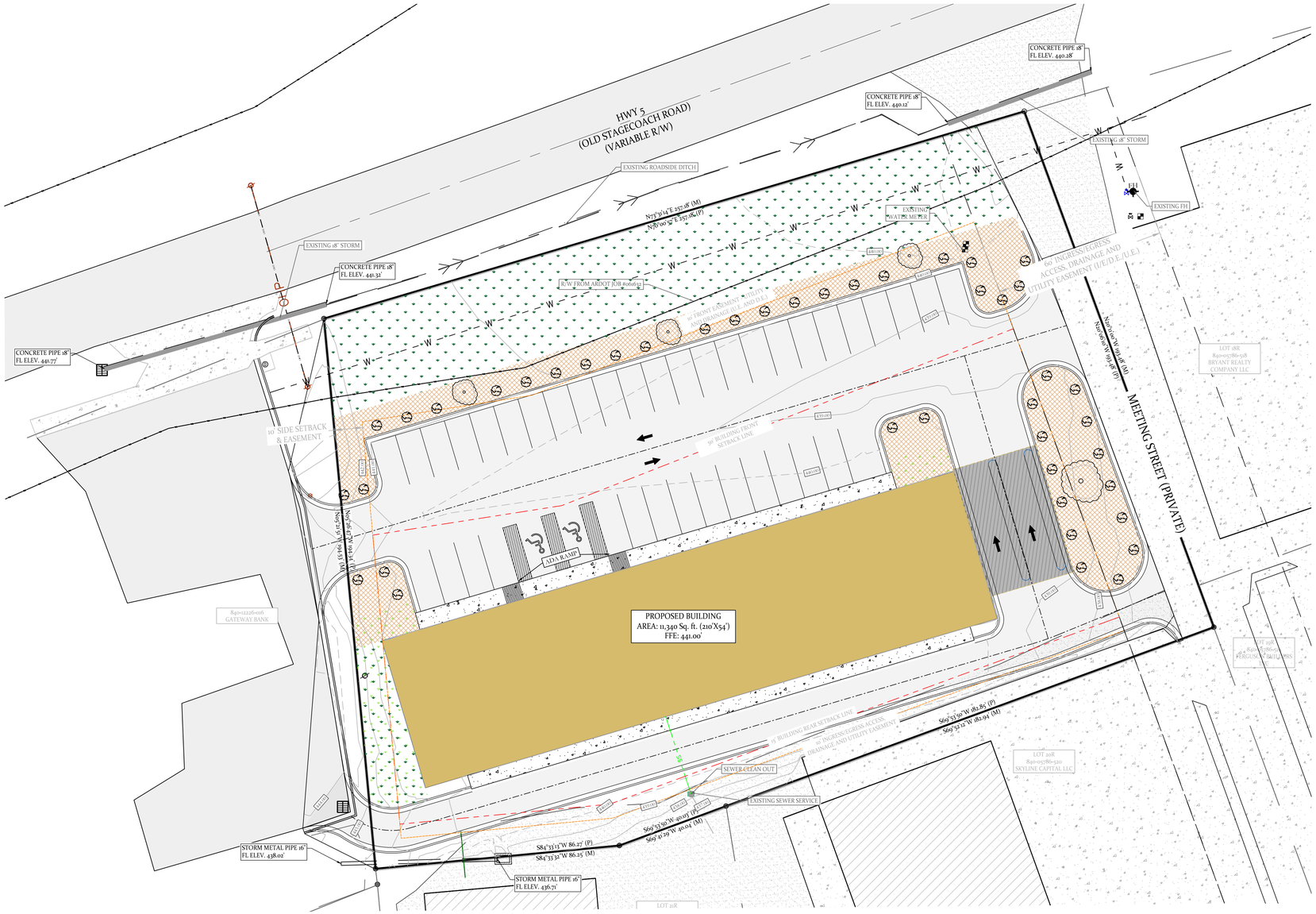
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FOR USE AND BENEFIT OF:
RYE GENERAL CONTRACTORS

MARKET PLACE II
DRAINAGE CALCULATION (PRE DEVELOPMENT)
6128 HIGHWAY 5, BRYANT, SALINE COUNTY, ARKANSAS

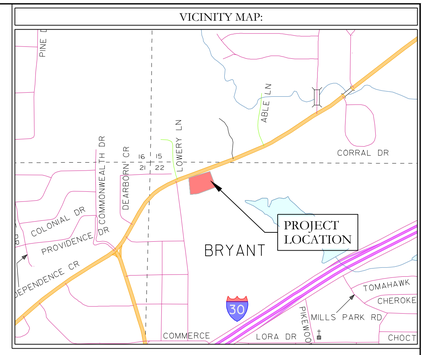
DATE:	11.25.25	C.A.D. BY:		DRAWING NUMBER:			
REVISED:		CHECKED BY:		25-0608			
SHEET:	C-4.3	SCALE:					
500	01S	14W	0	22	440	62	1762

I:\2025 HOPE CONSULTING\25-0608 MPII PHASE 3\25-0608 LOT 79R MARKET PLACE II PHASE II 79 N.DWG



MARKET PLACE-II PHASE 3

POST DEVELOPMENT



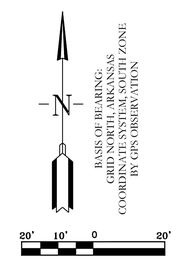
RUNOFF CO-EFFICIENT FOR SURFACE TYPE

HATCH TYPE	SURFACE TYPE	RUNOFF CO-EFFICIENTS
	ASPHALTIC	0.95
	GREEN AREA	0.33
	MULCH BED	0.13
	ROOF	0.97
	CONCRETE	0.97

DRAINAGE CALCULATION (POST DEVELOPMENT)

SURFACE TYPE	RUNOFF CO-EFFICIENT (100-yr.)	AREA (ha)	TOTAL AREA (ha), A	AVG. RUNOFF CO-EFFICIENT, C	RAINFALL INTENSITY (inches/hr) (5 min Duration Rain) 5 YEAR	10 YEAR	25 YEAR	100 YEAR
ASPHALTIC	0.95	0.6	0.99	0.88	7.28	8.21	9.43	11.2
MULCH BED	0.46	0.13						
GREEN AREA*	0.46	0.02						
ROOF	0.97	0.2						
CONCRETE	0.97	0.04						
PEAK DISCHARGE,Q = CIA					6.35 cfs	7.16 cfs	8.22 cfs	9.76 cfs

NOTE: **THE NORTHERN PORTION OF THE GREEN AREA WILL NOT BE INCLUDED IN THE DRAINAGE CALCULATION, AS IT DOES NOT CONTRIBUTE TO THE PROJECT'S SURFACE RUNOFF.*



STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
NO. 20676
11-25-2025

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

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

FOR USE AND BENEFIT OF:
RYE GENERAL CONTRACTORS

MARKET PLACE II
DRAINAGE CALCULATION (POST DEVELOPMENT)
6128 HIGHWAY 5, BRYANT, SALINE COUNTY, ARKANSAS

DATE:	11.25.25	C.A.D. BY:	DRAWING NUMBER: 25-0608
REVISED:		CHECKED BY:	
SHEET:	C-4.4	SCALE:	

500	01S	14W	0	22	440	62	1762

I:\2-5 HOPE\CONSULTING\2 PROJECTS\SHEETS\2-5sheet OTT 798 MARKET PL #2 C-4.4 PHASE III OTT 798 MARKET PL #2 C-4.4 PHASE III 798.DWG



Meeting Street Drainage Capacity		
Path length	$L_{(path)}$	175.00 ft
Elevation	E	3.00 ft
Slope	S	0.017 ft/ft
Path width	W	6.00 ft
Avg depth	D	0.50 ft
Flow Area	A	3.00 ft^2
Wetted Perimeter	P	12.04 ft
Hydraulic Radious	R	0.249 ft
Manning's Coefficient	n	0.01
Peak Discharge, $Q = \frac{1.49}{n} * A * R^{2/3} * S^{1/2}$ =		**20.97 cfs**

Alley Path Drainage Capacity		
Path length	$L_{(path)}$	630.00 ft
Elevation	E	8.50 ft
Slope	S	0.013 ft/ft
Path width (Avg.)	W	11.00 ft
Avg depth	D	0.42 ft
Flow Area	A	4.58 ft^2
Wetted Perimeter	P	22.02 ft
Hydraulic Radious	R	0.208 ft
Manning's Coefficient	n	0.01
Peak Discharge, $Q = \frac{1.49}{n} * A * R^{2/3} * S^{1/2}$ =		**25.20 cfs**

MARKET PLACE-II PHASE 3

DRAINAGE FLOW PATH

MEETING STREET

ALLEY PATH

CERTIFICATE OF AUTHORIZATION
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ARKANSAS

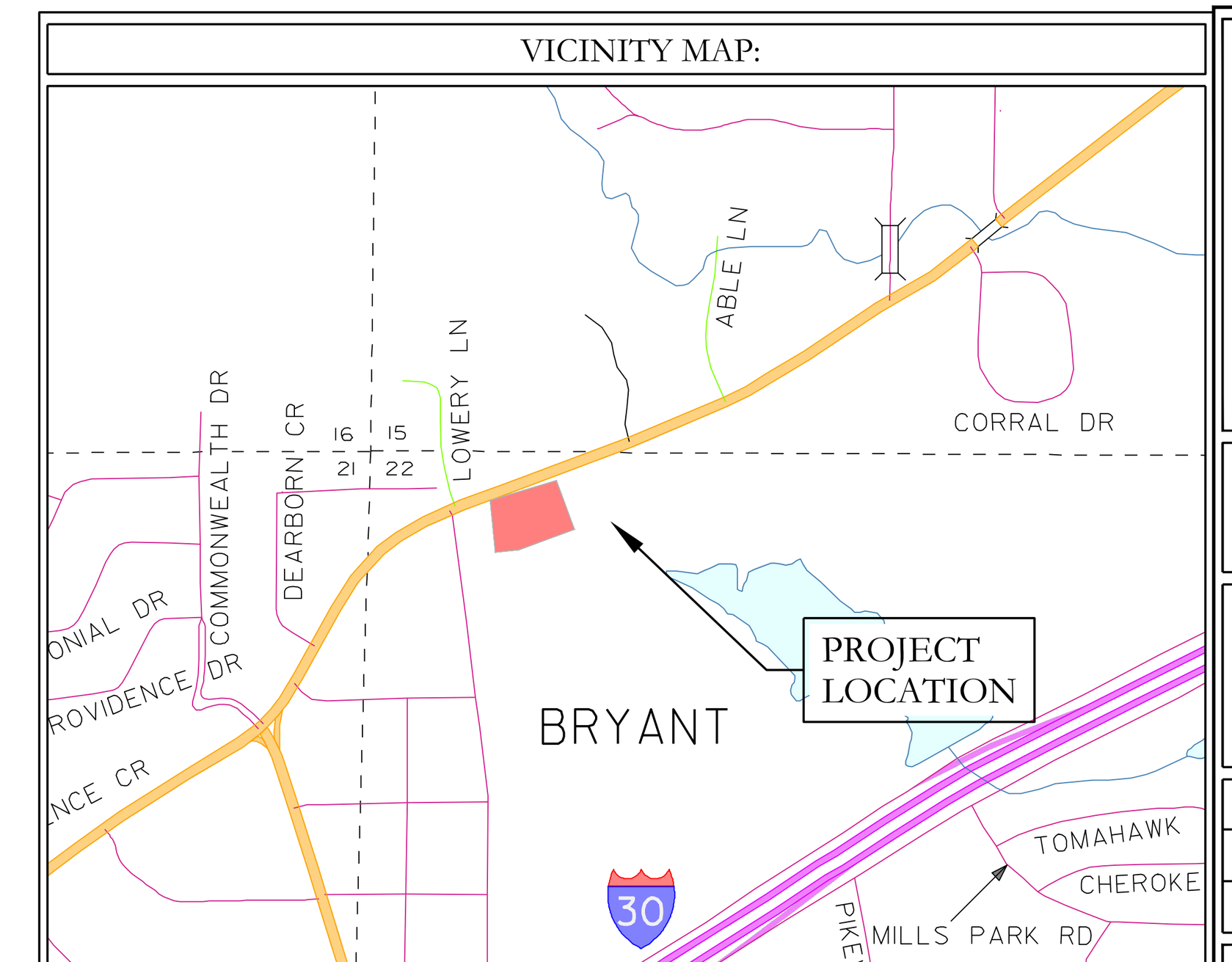
STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
NO. 20876
KAZI TAMZIDUL ISLAM
11-25-2025

N

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

50' 25' 0 50'

VICINITY MAP:



HOPE CONSULTING
ENGINEERS - SURVEYORS

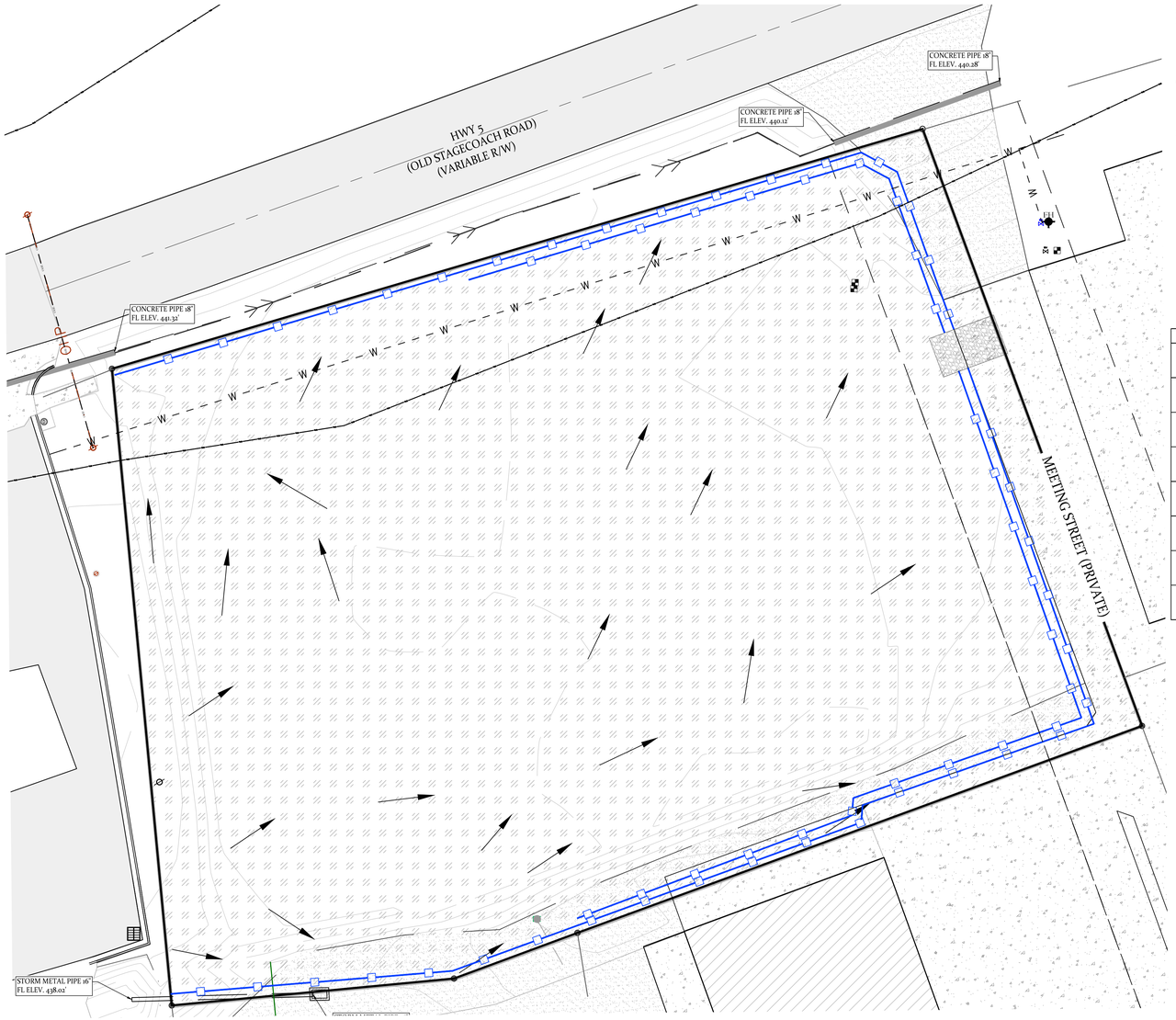
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FOR USE AND BENEFIT OF:
RYE GENERAL CONTRACTORS

MARKET PLACE II
DRAINAGE FLOW PATH
6128 HIGHWAY 5, BRYANT, SALINE COUNTY, ARKANSAS

DATE:	11.25.25	C.A.D. BY:			DRAWING NUMBER:		
REVISED:		CHECKED BY:			25-0608		
SHEET:	C-4.5	SCALE:					
500	01S	14W	0	22	440	62	1762

F:\2. HOPE CONSULTING\1. PROJECTS FILES\9. 25-0608 LOT 22B MARKET PLACE-II PH3\CIVIL\DWG\25-0608 LOT 22B MARKET PLACE-II PH3 11.2025.DWG



MARKET PLACE-II PHASE 3

PRE-CONSTRUCTION PHASE OR
INITIAL PHASE

ERC LEGEND

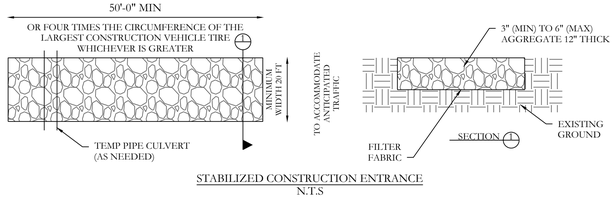
SITE POSTING

CONC. WASHOUT

SILT FENCE

RIP RAP CHECK DAM

CONSTRUCTION ENTRANCE



STABILIZED CONSTRUCTION ENTRANCE
N.T.S

EROSION CONTROL CONSTRUCTION PHASES

PRE-CONSTRUCTION:

1. INSTALL SILT FENCES AROUND THE PROJECT SITE.
2. ESTABLISH A CONSTRUCTION ENTRANCE TO CONTROL SITE ACCESS AND MINIMIZE DISTURBANCE.
3. MAINTAIN EXISTING DRAINAGE SWALES.

CONSTRUCTION:

1. INSTALL CONCRETE WASHOUT AREAS.
2. CONSTRUCT RIP-RAP CHECK DAMS FOR EROSION CONTROL.
3. MAINTAIN SILT FENCES THROUGHOUT CONSTRUCTION.

POST-CONSTRUCTION:

1. SEED OR SOD AND MULCH DISTURBED AREAS TO STABILIZE SOIL.
2. MAINTAIN SILT FENCES UNTIL VEGETATION IS FULLY ESTABLISHED.
3. REPAIR OR REPLACE DAMAGED BMPS WITHIN 3 BUSINESS DAYS OR BEFORE THE NEXT RAIN EVENT.

SWPPP SPECIFIC NOTES

1. ALL DEVELOPMENT SHALL COMPLY WITH CITY OF BRYANT AND ADEQ ARR150000 STORMWATER PERMIT REQUIREMENTS.

2. INSTALL SILT FENCE AS SHOWN ON THE PLANS; ADD ADDITIONAL FENCING WHERE HEAVY RUNOFF MAY OCCUR. CONTRACTOR SHALL INSPECT AND INSTALL SUPPLEMENTAL MEASURES AS NEEDED TO CONTAIN RUNOFF.

3. CONSTRUCT RIP-RAP CHECK DAMS PER ADEQ REQUIREMENTS. LOCATIONS SHOWN ARE APPROXIMATE; ADD ADDITIONAL CHECK DAMS AS SITE CONDITIONS REQUIRE.

4. MAINTAIN CONSTRUCTION ENTRANCES/EXITS TO PREVENT TRACKING OF MUD ONTO PUBLIC RIGHTS-OF-WAY.

5. IMPLEMENT ADDITIONAL EROSION-CONTROL MEASURES AS NECESSARY BASED ON SITE CONDITIONS.

6. CONTRACTOR SHALL UTILIZE ACCEPTED BEST MANAGEMENT PRACTICES (BMPS) FOR ALL SEDIMENT AND RUNOFF CONTROL MEASURES.

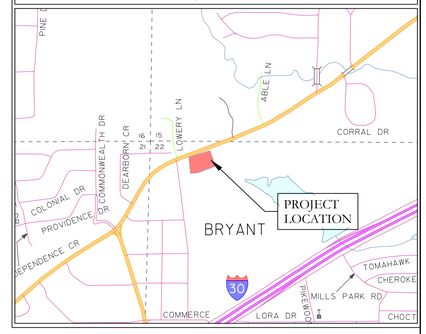
INSPECTION AND MAINTENANCE PLAN

QUALIFIED PERSONNEL MUST INSPECT ALL DISTURBED AREAS AT LEAST ONCE EVERY 7 DAYS, AND ALSO WITHIN 24 HOURS AFTER ANY STORM OF ≥ 0.5 IN.

DESCRIBE PROCEDURES TO KEEP THE FOLLOWING IN GOOD AND EFFECTIVE OPERATING CONDITION:

- VEGETATION
- EROSION & SEDIMENT CONTROL MEASURES
- ANY OTHER PROTECTIVE MEASURES LISTED IN THE SITE PLAN

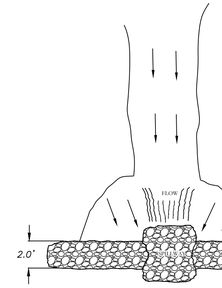
VICINITY MAP:



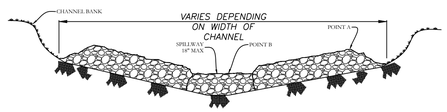
SEQUENCE OF CONSTRUCTION PLAN

Step	Activity	ESC/Control Measures	Notes
1	Install temporary ESC	Silt fence, construction entrance, riprap	Must be installed before any land disturbing activity
2	Site Clearing	Maintain temporary ESC, protect sensitive areas	Limit disturbance to only necessary areas
3	Final Grading / Slope Stabilization	Temporary ESC still in place	Install permanent measures where needed
4	Permanent Control Installation	Permanent pond structures, spillway, riprap, ditches	Remove temporary ESC only after permanent controls installed and stabilized
5	Vegetation / Stabilization	Permanent seeding / sod	Stabilize slopes and disturbed areas as soon as possible
6	Monitoring & Maintenance	Weekly inspections, repair damaged ESC measures	Follow SWPPP inspection schedule (every 7 days or after rain ≥0.5")
7	Site Final Stabilization	Confirm 80% vegetative cover or equivalent permanent measures	Required before filing Notice of Termination (NOT)
8	Project Completion / Termination	Remove temporary measures, submit NOT	Only after full stabilization

(Reference: Bryant Stormwater Management Manual,Sections 1104.4.1-1104.4.7)



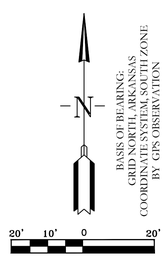
PLAN CHECK DAM



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. USE LOOSE ROCK OR AGGREGATE PLACED OVER SOIL SURFACES, BROKEN CONCRETE IS NOT ACCEPTABLE STRAW, ROCKS, OR FILTER FABRIC TO FILL ANY GAPS AND TAMP BACKFILL MATERIAL TO PREVENT EROSION OR FLOW AROUND THE DAM.
3.) USE CLEAN CRUSHED STONE OR COBBLE IN A SMALLER GRADATION IN CHECK DAM.
4.) SPILLWAY HEIGHT SHALL NOT EXCEED 18"-24".
5.) INSPECT AFTER EACH SIGNIFICANT STORM, MAINTAIN AND REPAIR PROMPTLY.



SILT FENCE MATERIAL: IT SHALL BE GEOTEXTILE FABRIC (ASTM D4632), MINIMUM 3 FT HEIGHT, HAVING 10 FT MAXIMUM SPACING WITH STEEL WIRE SUPPORT FENCE.

SILT FENCE 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.

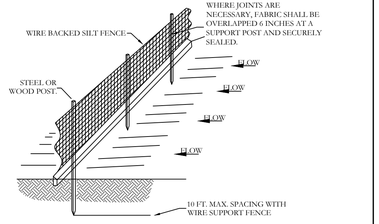
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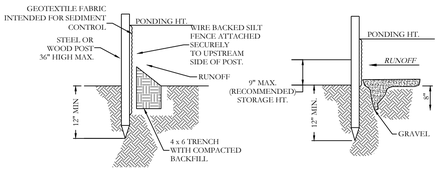
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6.) ALL SILT FENCES SHALL BE PLACED AS CLOSE TO THE EXISTING CONTOUR AS POSSIBLE TO PREVENT CONCENTRATED FLOWS.

7.) SILT FENCES SHALL BE REMOVED AFTER THEY HAVE SERVED THEIR PURPOSE, AND ONLY AFTER ALL UPSLOPE DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.



SILT FENCE



STANDARD DETAIL
TRENCH WITH NATIVE BACKFILL

ALTERNATE DETAIL
TRENCH WITH GRAVEL

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

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

THE ECP IS SUBJECT TO CHANGE BASED ON CURRENT SITE CONDITIONS. ADDITIONAL MEASURES MAY BE NEEDED TO MITIGATE ILLICIT DISCHARGES OF SEDIMENT AND/OR DEBRIS FROM THE SITE.

ALL STORMWATER INLETS ON AND ADJACENT TO THE SITE WILL BE PROTECTED FROM SEDIMENT INTRUSION.

STORMWATER CONTROLS WILL BE INSPECTED AT LEAST ONCE EVERY SEVEN DAYS.

ALL EROSION CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING CONDITION THROUGHOUT THE PROJECT AND UNTIL PERMANENT VEGETATION IS ESTABLISHED, AND SEDIMENT TRAPS WILL BE CLEANED AS REQUIRED.

ADDITIONAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AS REQUIRED, BASED ON SITE-SPECIFIC CONDITIONS.

EXISTING VEGETATION SHALL BE PRESERVED WHEREVER FEASIBLE.

ALL DISTURBED AREAS LEFT IDLE FOR 14 DAYS OR LONGER SHALL BE TREATED WITH TEMPORARY VEGETATION AND MULCHING.

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
TAMZIDUL ISLAM
NO. 20876
11-25-2025

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

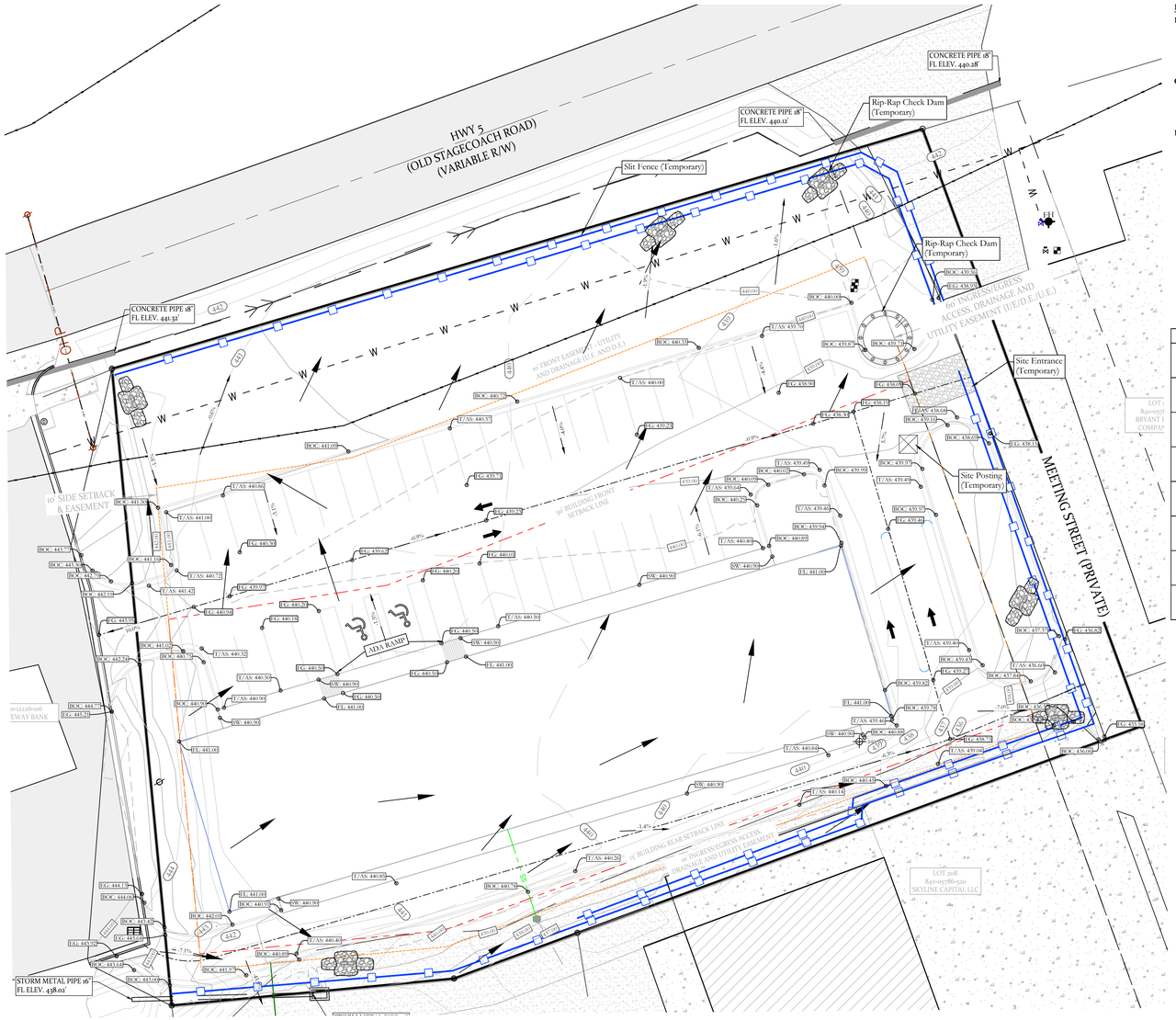
HOPE CONSULTING
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PH. (501)315-2626
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FOR USE AND BENEFIT OF:
RYE GENERAL CONTRACTORS

MARKET PLACE II
ECP_PRE CONSTRUCTION PHASE
6128 HIGHWAY 5, BRYANT, SALINE COUNTY, ARKANSAS

DATE:	11.25.25	C.A.D. BY:				DRAWING NUMBER:	
REVISED:		CHECKED BY:				25-0608	
SHEET:	C-5.1	SCALE:					
500	01S	14W	0	22	440	62	1762

E:\2025 HOPE CONSULTING\11 PROJECTS\RYE GENERAL CONTRACTORS\25-0608 MARKET PLACE II\ACAD FILES\PLOT\PLOT STYLES\25-0608 MARKET PLACE II ECP_PRE CONSTRUCTION.CTB, 11/25/2025 11:38:51 AM, TAMZIDUL ISLAM



MARKET PLACE-II PHASE 3

CONSTRUCTION PHASE

EROSION CONTROL CONSTRUCTION PHASES

PRE-CONSTRUCTION:

1. INSTALL SILT FENCES AROUND THE PROJECT SITE.
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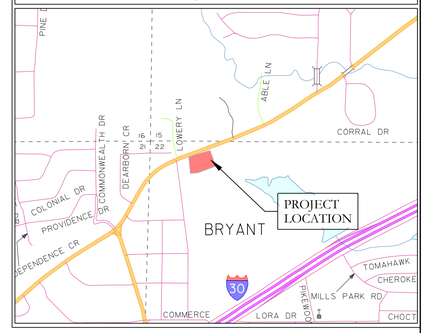
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- ANY OTHER PROTECTIVE MEASURES LISTED IN THE SITE PLAN

VICINITY MAP:



SEQUENCE OF CONSTRUCTION PLAN

Step	Activity	ESC/Control Measures	Notes
1	Install temporary ESC	Silt fence, construction entrance, riprap	Must be installed before any land disturbing activity
2	Site Clearing	Maintain temporary ESC, protect sensitive areas	Limit disturbance to only necessary areas
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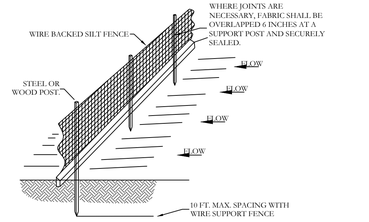
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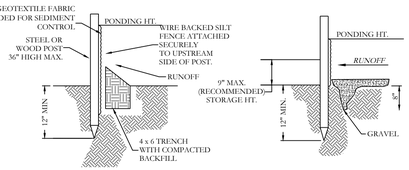
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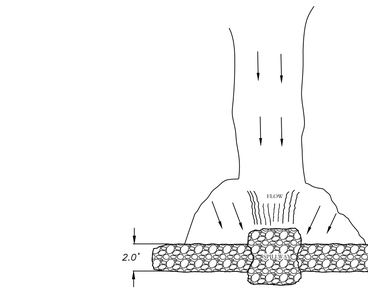


SILT FENCE

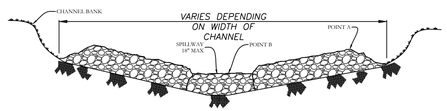


STANDARD DETAIL
TRENCH WITH NATIVE BACKFILL

ALTERNATE DETAIL
TRENCH WITH GRAVEL



PLAN CHECK DAM



VIEW LOOKING UPSTREAM

NOTES:

1.) POINT 'A' MUST BE HIGHER THAN POINT 'B' (SPILLWAY HEIGHT)
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ADDITIONAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AS REQUIRED, BASED ON SITE-SPECIFIC CONDITIONS.

EXISTING VEGETATION SHALL BE PRESERVED WHEREVER FEASIBLE.

ALL DISTURBED AREAS LEFT IDLE FOR 14 DAYS OR LONGER SHALL BE TREATED WITH TEMPORARY VEGETATION AND MULCHING.

ERC LEGEND

SITE POSTING

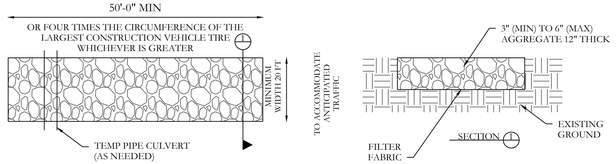
CONC. WASHOUT

SILT FENCE

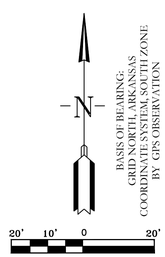
RIP RAP CHECK DAM

CONSTRUCTION ENTRANCE

LEGEND
BOC = TOP OF BACK OF CURB
FG = FINISHED GRADE
EG = EXISTING GRADE
SW = TOP OF SIDEWALK
T/AS = TOP OF ASPHALT



STABILIZED CONSTRUCTION ENTRANCE
N.T.S







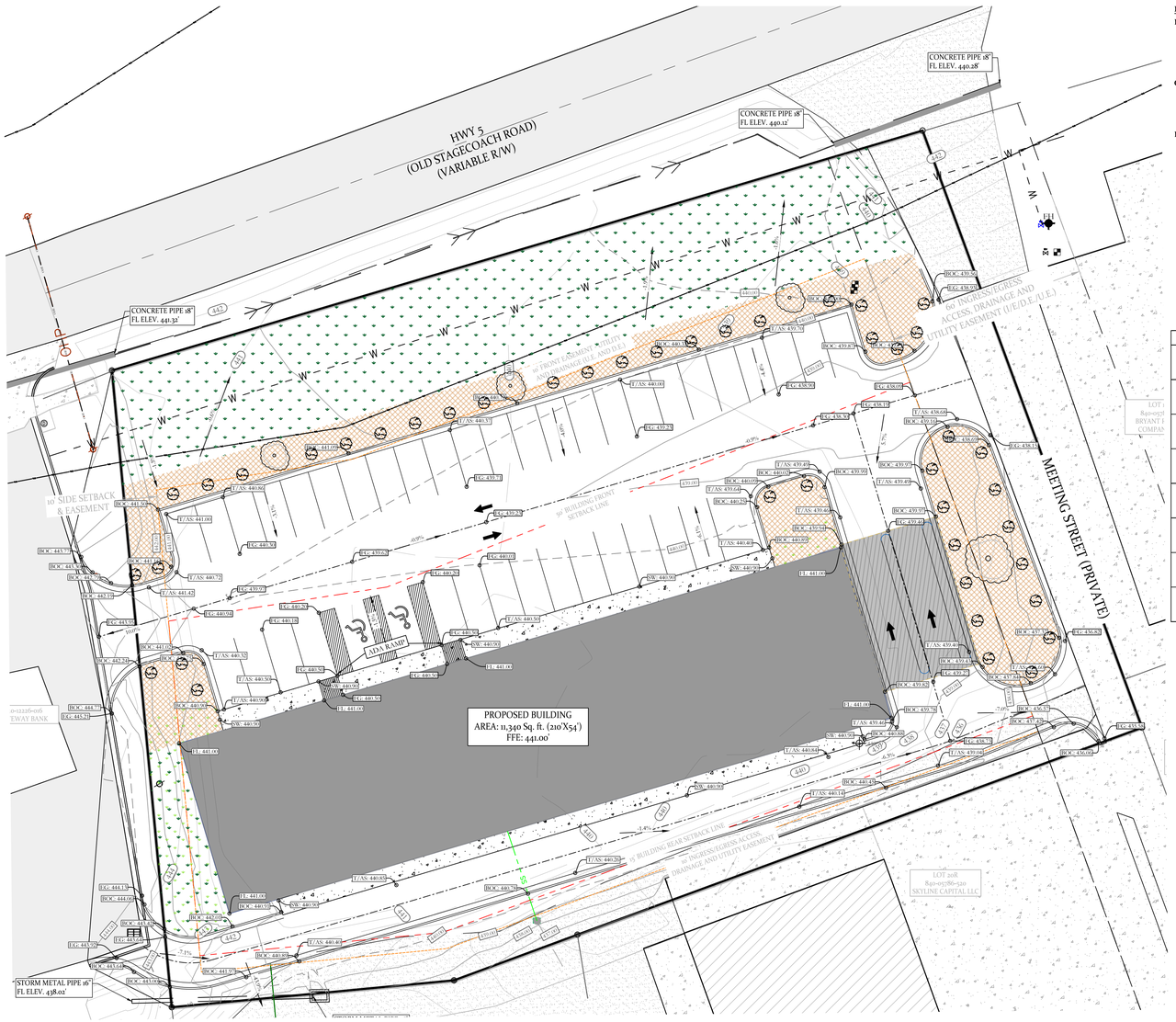
HOPE CONSULTING
ENGINEERS - SURVEYORS
129 N. Main Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

FOR USE AND BENEFIT OF:
RYE GENERAL CONTRACTORS

MARKET PLACE II
ECP CONSTRUCTION PHASE
6128 HIGHWAY 5, BRYANT, SALINE COUNTY, ARKANSAS

DATE:	11.25.25	C.A.D. BY:				DRAWING NUMBER:	
REVISED:		CHECKED BY:				25-0608	
SHEET:	C-5.2	SCALE:					
500	01S	14W	0	22	440	62	1762

E:\2-HOPE CONSULTING\1-PROJECTS\RYE PROPS\25-0608 PLAT 798 MARKET PL II ECP-II PHASE\PLOT FILES\C-5.2 ECP-II PHASE.DWG



MARKET PLACE-II PHASE 3

POST-CONSTRUCTION PHASE

ERC LEGEND

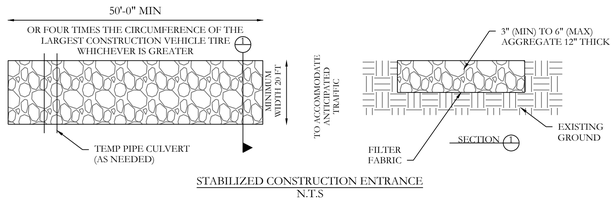
SITE POSTING

CONC. WASHOUT

SILT FENCE

RIP RAP CHECK DAM

CONSTRUCTION ENTRANCE



STABILIZED CONSTRUCTION ENTRANCE
N.T.S

EROSION CONTROL CONSTRUCTION PHASES

PRE-CONSTRUCTION:

1. INSTALL SILT FENCES AROUND THE PROJECT SITE.
2. ESTABLISH A CONSTRUCTION ENTRANCE TO CONTROL SITE ACCESS AND MINIMIZE DISTURBANCE.
3. MAINTAIN EXISTING DRAINAGE SWALES.

CONSTRUCTION:

1. INSTALL CONCRETE WASHOUT AREAS.
2. CONSTRUCT RIP-RAP CHECK DAMS FOR EROSION CONTROL.
3. MAINTAIN SILT FENCES THROUGHOUT CONSTRUCTION.

POST-CONSTRUCTION:

1. SEED OR SOD AND MULCH DISTURBED AREAS TO STABILIZE SOIL.
2. MAINTAIN SILT FENCES UNTIL VEGETATION IS FULLY ESTABLISHED.
3. REPAIR OR REPLACE DAMAGED BMPS WITHIN 3 BUSINESS DAYS OR BEFORE THE NEXT RAIN EVENT.

SWPPP SPECIFIC NOTES

1. ALL DEVELOPMENT SHALL COMPLY WITH CITY OF BRYANT AND ADEQ ARR150000 STORMWATER PERMIT REQUIREMENTS.

2. INSTALL SILT FENCE AS SHOWN ON THE PLANS; ADD ADDITIONAL FENCING WHERE HEAVY RUNOFF MAY OCCUR. CONTRACTOR SHALL INSPECT AND INSTALL SUPPLEMENTAL MEASURES AS NEEDED TO CONTAIN RUNOFF.

3. CONSTRUCT RIP-RAP CHECK DAMS PER ADEQ REQUIREMENTS. LOCATIONS SHOWN ARE APPROXIMATE; ADD ADDITIONAL CHECK DAMS AS SITE CONDITIONS REQUIRE.

4. MAINTAIN CONSTRUCTION ENTRANCES/EXITS TO PREVENT TRACKING OF MUD ONTO PUBLIC RIGHTS-OF-WAY.

5. IMPLEMENT ADDITIONAL EROSION-CONTROL MEASURES AS NECESSARY BASED ON SITE CONDITIONS.

6. CONTRACTOR SHALL UTILIZE ACCEPTED BEST MANAGEMENT PRACTICES (BMPS) FOR ALL SEDIMENT AND RUNOFF CONTROL MEASURES.

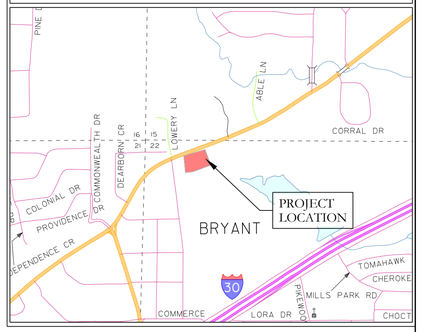
INSPECTION AND MAINTENANCE PLAN

QUALIFIED PERSONNEL MUST INSPECT ALL DISTURBED AREAS AT LEAST ONCE EVERY 7 DAYS, AND ALSO WITHIN 24 HOURS AFTER ANY STORM OF ≥ 0.5 IN.

DESCRIBE PROCEDURES TO KEEP THE FOLLOWING IN GOOD AND EFFECTIVE OPERATING CONDITION:

- VEGETATION
- EROSION & SEDIMENT CONTROL MEASURES
- ANY OTHER PROTECTIVE MEASURES LISTED IN THE SITE PLAN

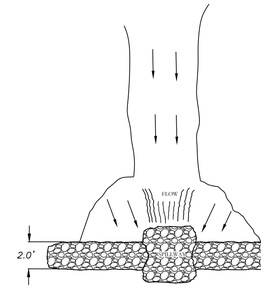
VICINITY MAP:



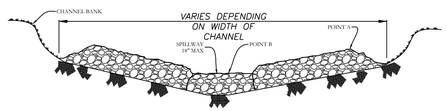
SEQUENCE OF CONSTRUCTION PLAN

Step	Activity	ESC/Control Measures	Notes
1	Install temporary ESC	Silt fence, construction entrance, riprap	Must be installed before any land disturbing activity
2	Site Clearing	Maintain temporary ESC, protect sensitive areas	Limit disturbance to only necessary areas
3	Final Grading / Slope Stabilization	Temporary ESC still in place	Install permanent measures where needed
4	Permanent Control Installation	Permanent pond structures, spillway, riprap, ditches	Remove temporary ESC only after permanent controls installed and stabilized
5	Vegetation / Stabilization	Permanent seeding / sod	Stabilize slopes and disturbed areas as soon as possible
6	Monitoring & Maintenance	Weekly inspections, repair damaged ESC measures	Follow SWPPP inspection schedule (every 7 days or after rain ≥0.5")
7	Site Final Stabilization	Confirm 80% vegetative cover or equivalent permanent measures	Required before filing Notice of Termination (NOT)
8	Project Completion / Termination	Remove temporary measures, submit NOT	Only after full stabilization

(Reference: Bryant Stormwater Management Manual,Sections 1104.4.1-1104.4.7)



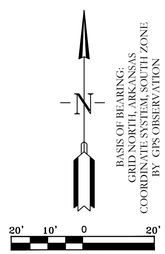
PLAN CHECK DAM



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.
USE LOOSE ROCK OR AGGREGATE PLACED OVER SOIL SURFACES, BROKEN CONCRETE IS NOT ACCEPTABLE STRAW, ROCKS, OR FILTER FABRIC TO FILL ANY GAPS AND TAMP BACKFILL MATERIAL TO PREVENT EROSION OR FLOW AROUND THE DAM.
3.) USE CLEAN CRUSHED STONE OR COBBLE IN A SMALLER GRADATION IN CHECK DAM.
4.) SPILLWAY HEIGHT SHALL NOT EXCEED 18"-24".
5.) INSPECT AFTER EACH SIGNIFICANT STORM, MAINTAIN AND REPAIR PROMPTLY.



STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
JAMZIDUV ISLAM
NO. 20876
11-25-2025

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

SILT FENCE MATERIAL: IT SHALL BE GEOTEXTILE FABRIC (ASTM D4632), MINIMUM 3 FT HEIGHT, HAVING 10 FT MAXIMUM SPACING WITH STEEL WIRE SUPPORT FENCE.

SILT FENCE 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.

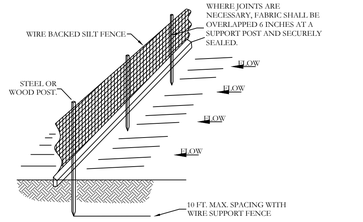
3.) SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

4.) USE ONLY WIRE BACKED SILT FENCE.

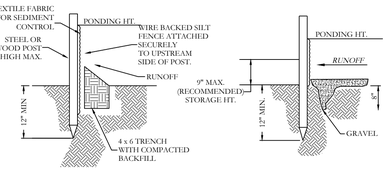
5.) IF THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER SHALL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

6.) ALL SILT FENCES SHALL BE PLACED AS CLOSE TO THE EXISTING CONTOUR AS POSSIBLE TO PREVENT CONCENTRATED FLOWS.

7.) SILT FENCES SHALL BE REMOVED AFTER THEY HAVE SERVED THEIR PURPOSE, AND ONLY AFTER ALL UPSLOPE DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.



SILT FENCE



STANDARD DETAIL
TRENCH WITH NATIVE BACKFILL

ALTERNATE DETAIL
TRENCH WITH GRAVEL

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 INITAL 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 WIRE-BACKED SILT FENCING WILL BE ADDED TO INDIVIDUAL LOTS AS HOME CONSTRUCTION TAKES PLACE.

THE ECP IS SUBJECT TO CHANGE BASED ON CURRENT SITE CONDITIONS. ADDITIONAL MEASURES MAY BE NEEDED TO MITIGATE ILLICIT DISCHARGES OF SEDIMENT AND/OR DEBRIS FROM THE SITE.

ALL STORMWATER INLETS ON AND ADJACENT TO THE SITE WILL BE PROTECTED FROM SEDIMENT INTRUSION.

STORMWATER CONTROLS WILL BE INSPECTED AT LEAST ONCE EVERY SEVEN DAYS.

ALL EROSION CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING CONDITION THROUGHOUT THE PROJECT AND UNTIL PERMANENT VEGETATION IS ESTABLISHED, AND SEDIMENT TRAPS WILL BE CLEANED AS REQUIRED.

ADDITIONAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AS REQUIRED, BASED ON SITE-SPECIFIC CONDITIONS.

EXISTING VEGETATION SHALL BE PRESERVED WHEREVER FEASIBLE.

ALL DISTURBED AREAS LEFT IDLE FOR 14 DAYS OR LONGER SHALL BE TREATED WITH TEMPORARY VEGETATION AND MULCHING.

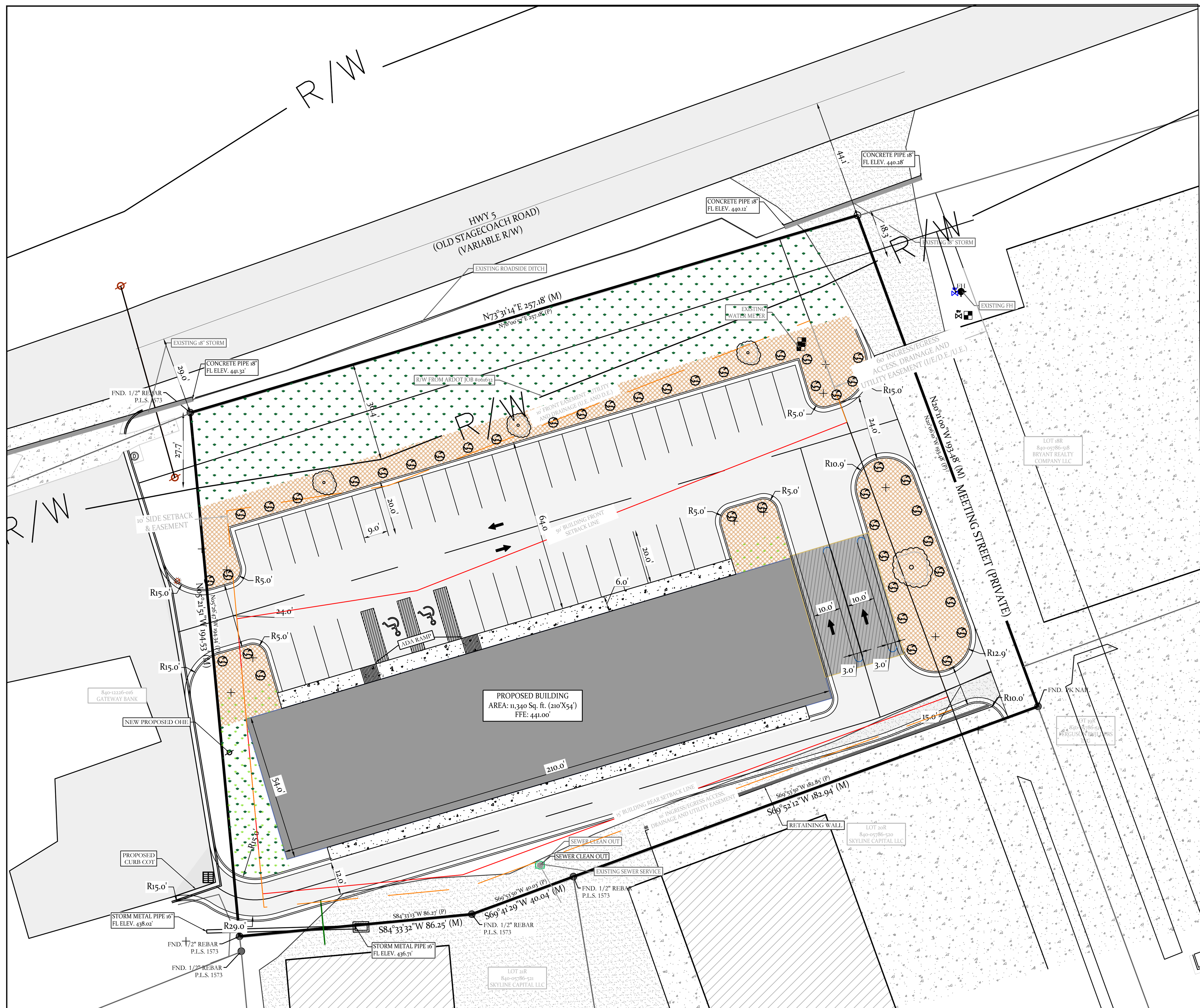
HOPE CONSULTING
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PH. (501)315-2626
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www.hopeconsulting.com

FOR USE AND BENEFIT OF:
RYE GENERAL CONTRACTORS

MARKET PLACE II
ECP_POST CONSTRUCTIONSTAGE
6128 HIGHWAY 5, BRYANT, SALINE COUNTY, ARKANSAS

DATE:	11.25.25	C.A.D. BY:				DRAWING NUMBER:	
REVISED:		CHECKED BY:				25-0608	
SHEET:	C-5.3	SCALE:					
500	01S	14W	0	22	440	62	1762

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GENERAL NOTES:

NO PLANTING WITHIN 5 FEET OF A FIRE HYDRANT.

SPACING WILL BE 40' BETWEEN TREES.

TREE MUST BE A MINIMUM 3" IN DIAMETER @ THE BASE AND 12'+ TALL.

EXISTING TREES MEETING THE MINIMUM SIZE CAN BE COUNTED TO MEET THE CRITERIA.

NO TREES CAN BE PLANTED WITHIN THIRTY-FOOT (30') OF A PROPERTY COMER OR DRIVEWAY.

SHRUBS ALONG STREET FIGHT-OF-WAY LINES CANNOT EXCEED THIRTY INCHES (30") IN HEIGHT.

SEPARATIONS NOTED IN THE ZONING REGULATIONS MUST BE BERMED OR SCREENED WITH LANDSCAPING AND GROUND COVER OR GRASS.

MAINTENANCE:

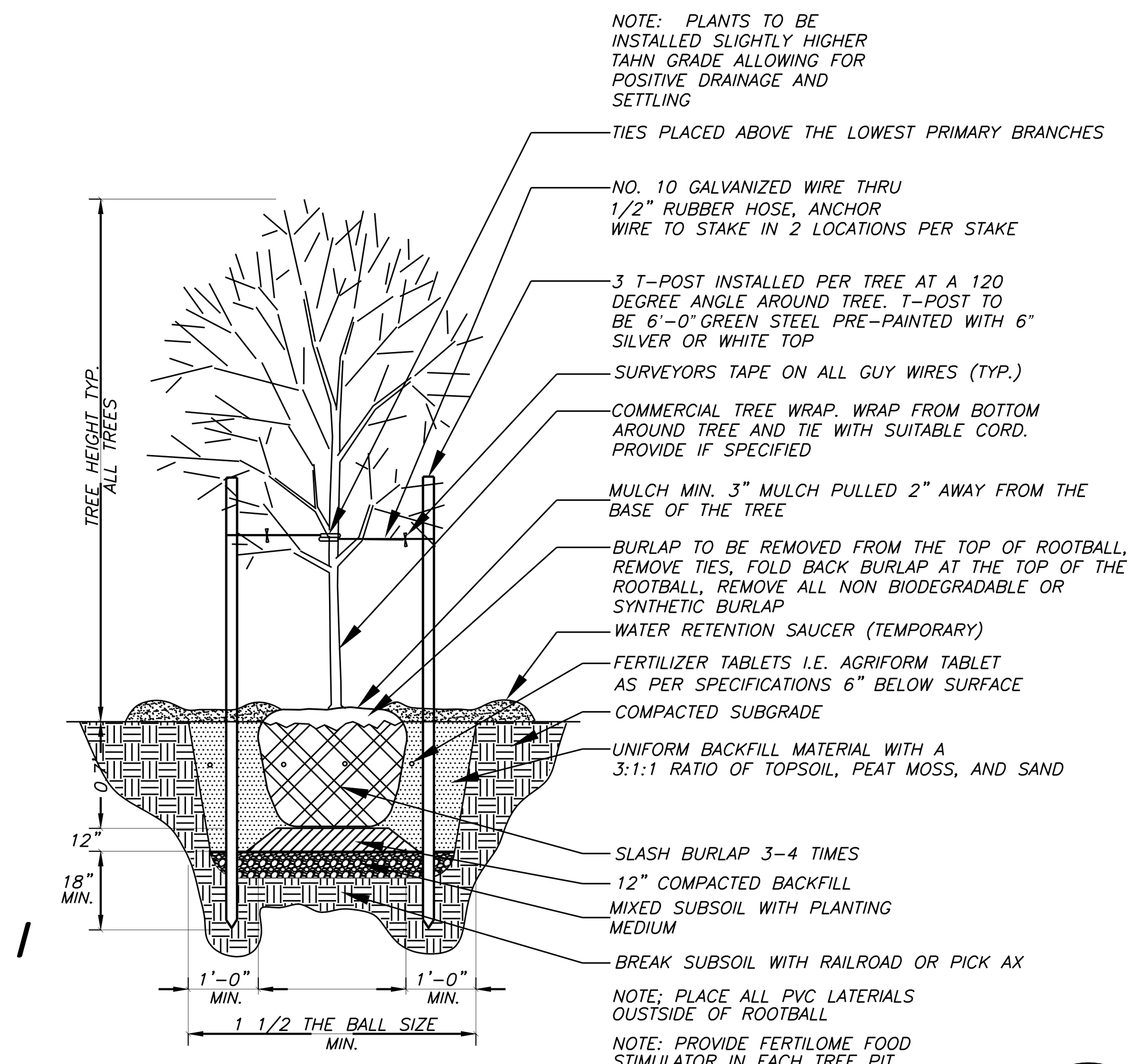
THE DEVELOPER, HIS SUCCESSOR AND THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR REGULAR WEEDING, IRRIGATING, FERTILIZING, PRUNING AND OTHER MAINTENANCE OF ALL PLANTING ON PRIVATE PROPERTY OF A DEVELOPMENT. PLANT MATERIALS WHICH ARE INSTALLED FOR COMPLIANCE WITH THIS ORDINANCE, BOTH ON PRIVATE PROPERTY AND THE PUBLIC RIGHT-OF-WAY, WHICH EXHIBIT EVIDENCE OF INSECT PESTS, DISEASE AND/OR DAMAGE, SHALL BE APPROPRIATELY TREATED AND DEAD PLANT MATERIALS SHALL BEREPLACED.

THE OWNER OF LAND ABUTTING A CONSTRUCTED PUBLIC RIGHT-OF-WAY SHALL BE RESPONSIBLE FOR THE TREE PLANTING STRIP LYING BETWEEN THE PRIVATE PROPERTY LINE AND THE CURBLINE OR BACKSLOPE LINE AND SHALL BE REQUIRED TO REGULARLY
WEED, MOW, PRUNE AND MAINTAIN PLANTINGS IN COMPLIANCE WITH GOOD HORTICULTURAL PRACTICES.

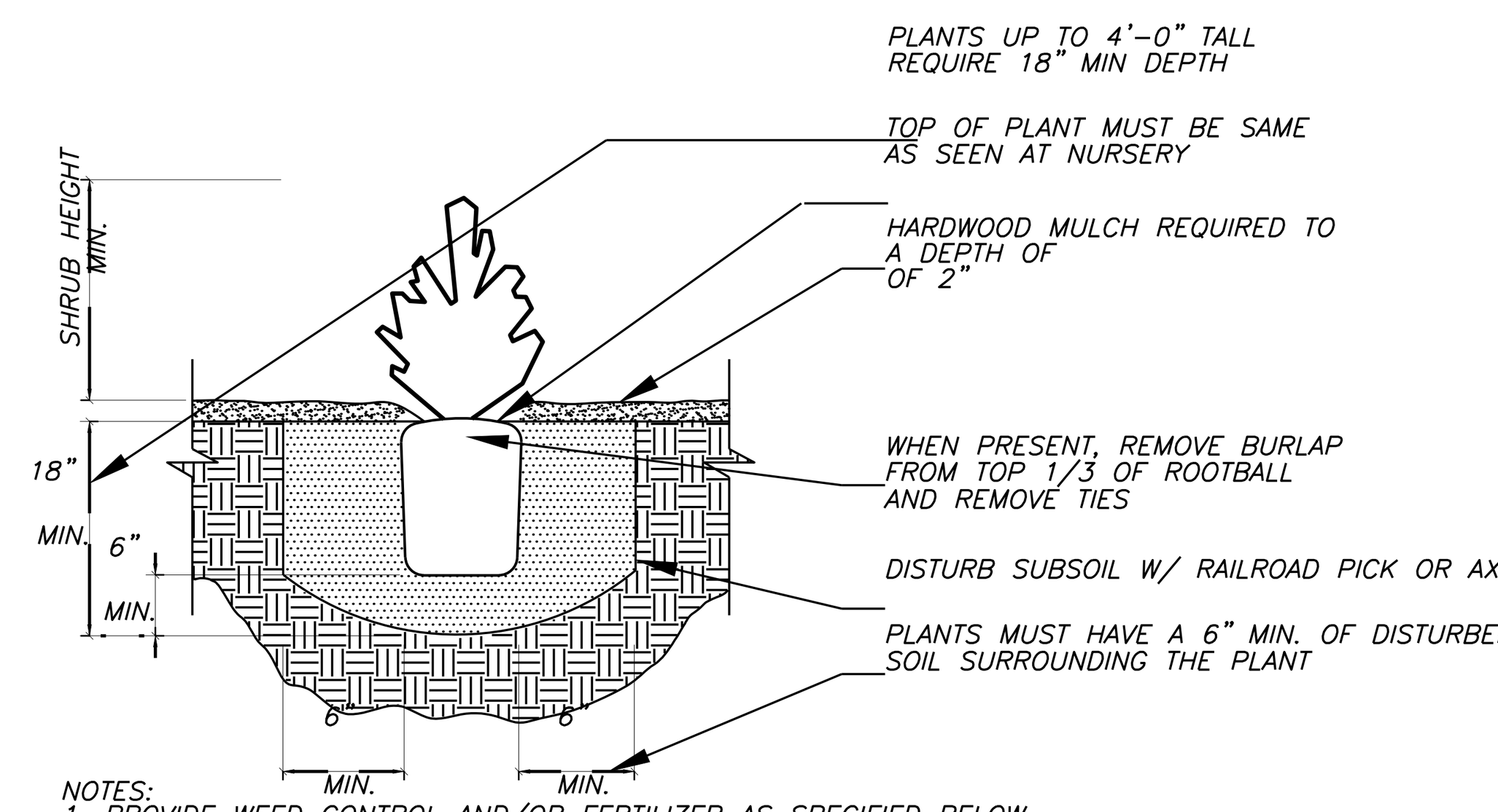
IF THE OWNER OF LAND THUS SITUATED AS IN ABOVE, NEGLECTS OR REFUSES TO MAINTAIN THE AREAS AS PROSCRIBED, AFTER HAVING BEEN GIVEN TEN (10) DAYS NOTICE IN WRITING TO MAINTAIN BY THE CITY, THE OWNER SHALL BE GUILTY OF A MISDEMEANOR.

THE CITY OF BRYANT PLANNING COMMISSION WILL REVIEW AND ACT ON ALL LANDSCAPING PROPOSALS AT THE TIME BUILDING PLANS ARE SUBMITTED AND IN THE CASE OF SUBDIVISION AT THE PRELIMINARY PLAT SUBMITTAL.

A CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED FOR A COMMERCIAL ESTABLISHMENT NOR WILL THE FINAL SUBDIVISION PLAT BE APPROVED UNTIL LANDSCAPING REQUIREMENTS ARE SATISFIED.



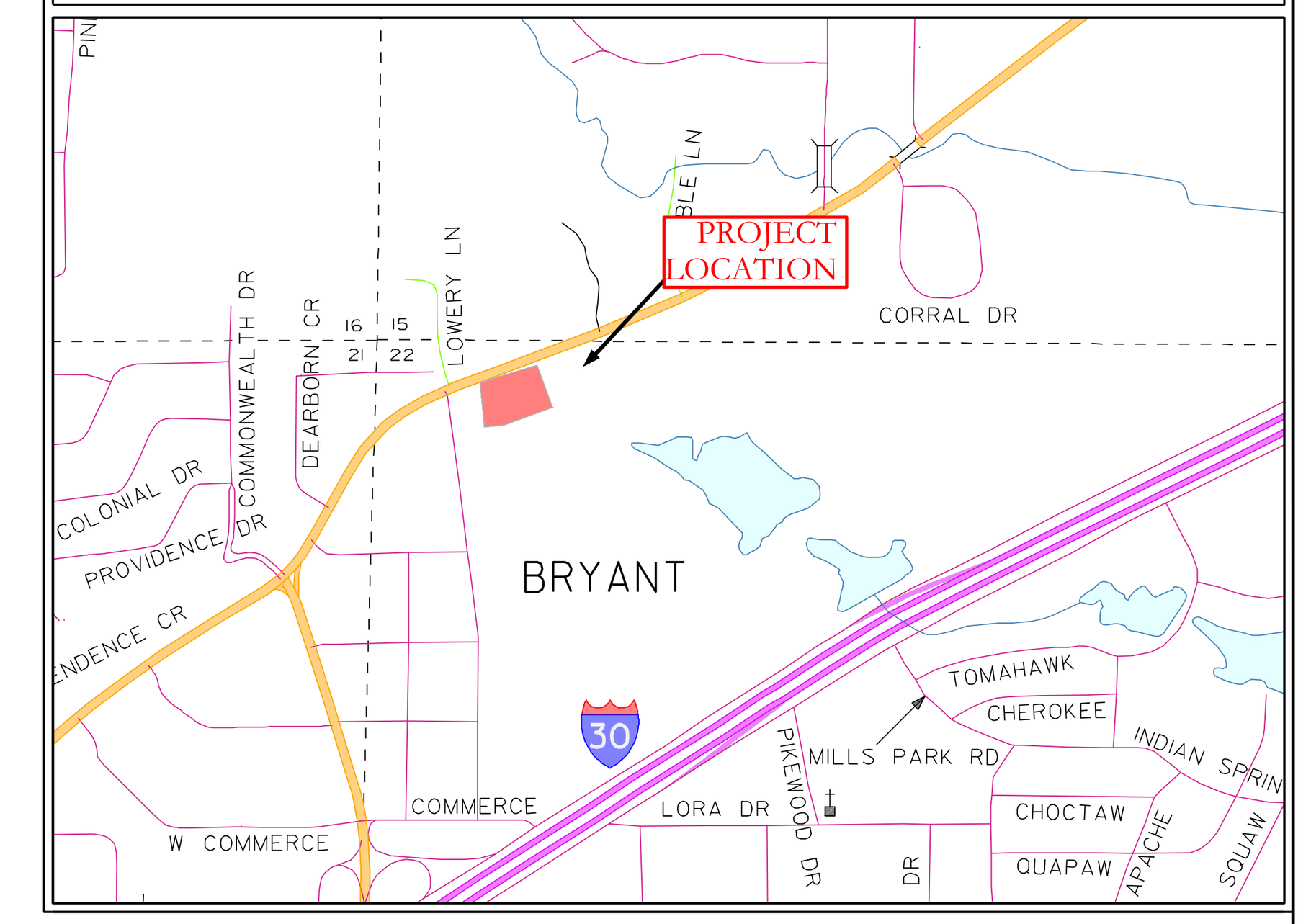
1 TREE PLANTING DETAIL
No Scale



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 MANUFACTURERS 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

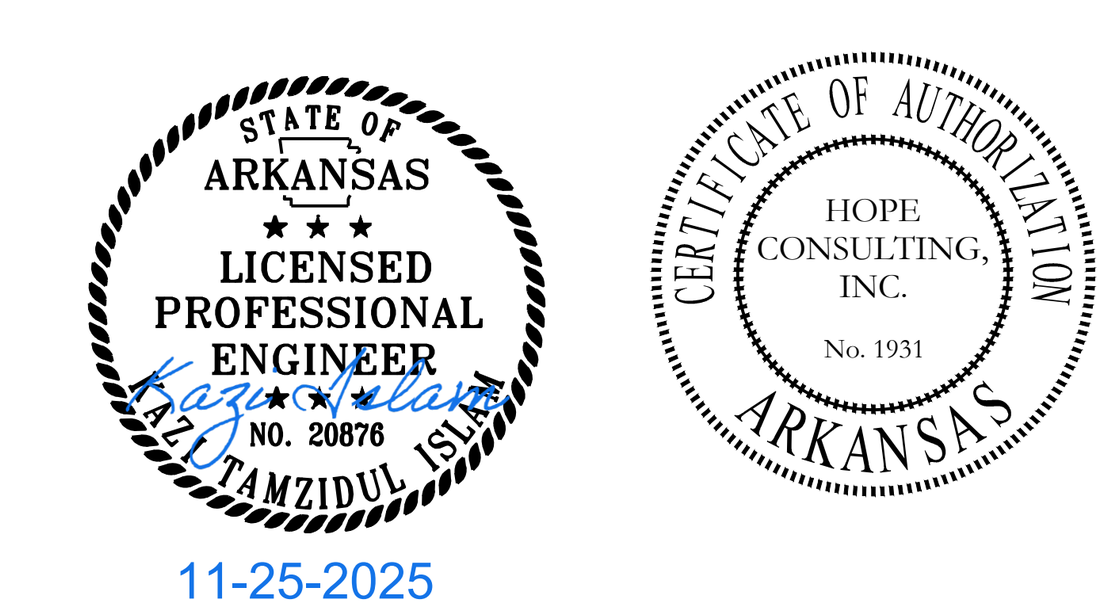
VICINITY MAP:

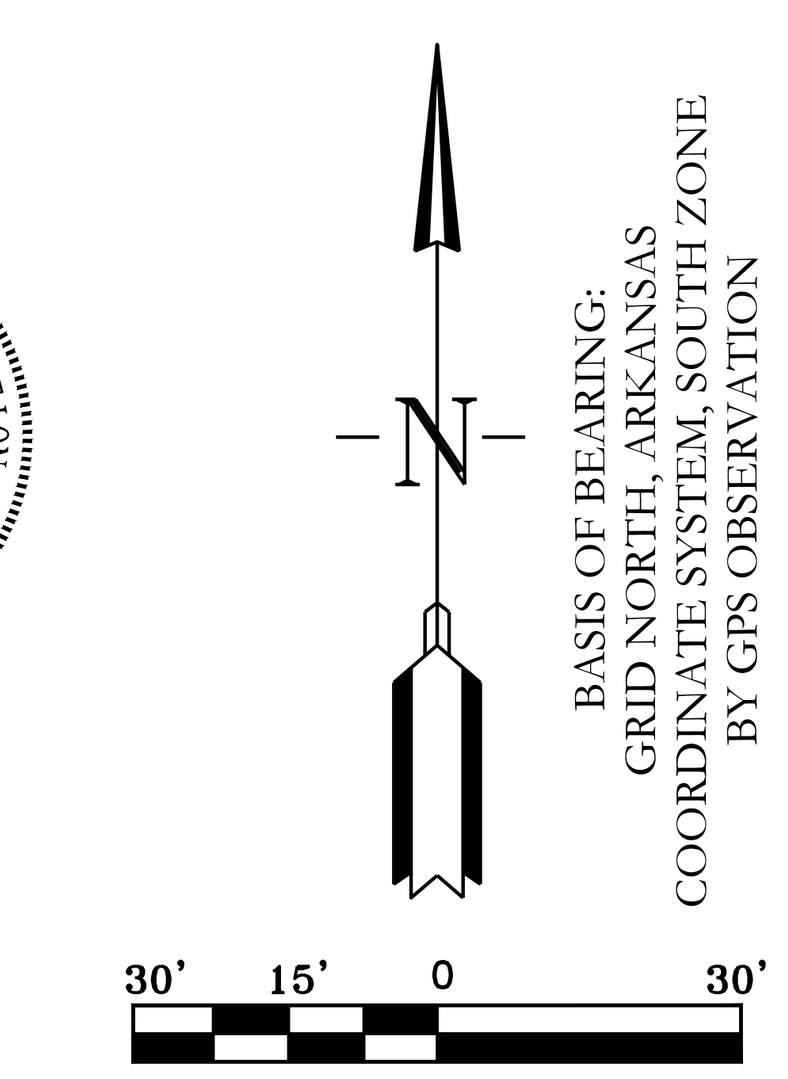


LANDSCAPE CALCULATION:	
GREEN SPACE	TOTAL DEVELOPMENT AREA: 56621.2 SF OR 1.3 AC GREEN SPACE: 15995.3 SF (15995.3 / 56621.2 = 0.282=28.2%)
LANDSCAPE (REQUIRED)	TREE REQUIRED FOR EACH ½ ACRE (56621.2 SF OR 1.3 AC/0.5 = 2.6=3 NOS OF TREES) SHRUB REQUIRED FOR EACH 2,000 SF OF TOTAL LAND AREA FOR DEVELOPMENT (56621.2 SF /2000 SF =48.64 =28)
LANDSCAPE (PROVIDED)	TREE PROVIDED = 5 TREES. SHRUB PROVIDED = 34

TREE LEGENDS

COMMON NAME:	BOTANICAL NAME:	HEIGHT OF PLANTING	QTY.:
SHURBS GLOSSY ABELIA	ABELIA GRANIFLORA		38
TREE AMERICAN HOLLY	ILEX OPACA	12'-0"	4
SOD (INCLUDES MULCH BEDS)	BERMUDA		
MULCH BEDS (OPTIONAL) PLANTER/FLOWER BED			





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

HOPE CONSULTING
ENGINEERS - SURVEYORS

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FOR USE AND BENEFIT OF:
RYE GENERAL CONTRACTORS

MARKET PLACE II
LANDSCAPE PLAN
6128 HIGHWAY 5, BRYANT, SALINE COUNTY, ARKANSAS

DATE:	11.25.25	C.A.D. BY:		DRAWING NUMBER:
REVISED:		CHECKED BY:		25-0608
SHEET:	C-6.0	SCALE:	1' = 30"	

500	01S	14W	0	22	440	62	1762

E:\2. HOPE CONSULTING\1. PROJECTS FILES\9. 25-0608 LOT 22R MARKET PLACE-II PH3\CIVIL\DWG\25-0608 LOT 22R MARKET PLACE-II PH3 11.20.25.DWG