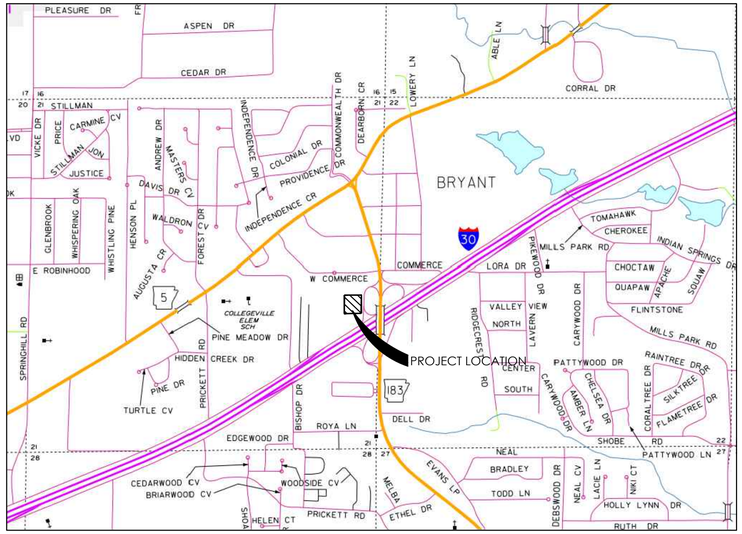
PANERA BREAD

BRYANT, ARKANSAS



VICINITY MAP

BASIS OF BEARING: GRID NORTH, ARKANSAS STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (0302), DETERMINED BY GPS OBSERVATIONS. APPROXIMATE CONVERGENCE ANGLE IS , -00° 16'47.15220". DISTANCES ARE STATE PLANE GRID DISTANCES. COMBINED ADJUSTMENT FACTOR = 0.999970446.

LEGEND (EXISTING SYMBOLS)

SYMBOLS	LINEWORK
FOUND IRON PIN	EASEMENT
LIGHT POLE	CURB
POWER POLE	INTERMEDIATE CONTOUR
TELEPHONE PEDESTAL	INDEX CONTOUR
TV PEDESTAL	SANITARY SEWER LINE
MANHOLE	GAS LINE
SANITARY SEWER CLEANOUT	WATER LINE (SPECIFY SIZE & TYPE)
GAS METER	UNDERGROUND TELEPHONE
GAS VALVE	UNDERGROUND ELECTRIC
STORM SEWER PIPE	OVERHEAD ELECTRIC
DOWN GUY	UNDERGROUND TELEVISION
WATER VALVE	OVERHEAD TELEVISION
FIRE HYDRANT ASSEMBLY	CHAIN LINK FENCE
AIR RELEASE VALVE	WOOD FENCE
FIRE DEPARTMENT CONNECTION	BARBED WIRE FENCE
WATER METER	FIBER OPTIC
SPRINKLER HEAD	RIGHT OF WAY
ELECTRIC PEDESTAL	ROAD CENTERLINE
GRATED INLET	
DROP INLET	
TREE	
TREE TO BE REMOVED	

LEGEND (CONSTRUCT)

SYMBOLS	LINEWORK
SET IRON PIN	EASEMENT
LIGHT POLE	CURB
POWER POLE	INTERMEDIATE CONTOUR
TELEPHONE PEDESTAL	INDEX CONTOUR
TV PEDESTAL	SANITARY SEWER LINE
MANHOLE	GAS LINE
SANITARY SEWER CLEANOUT	WATER LINE
GAS METER	UNDERGROUND TELEPHONE
GAS VALVE	UNDERGROUND ELECTRIC
STORM SEWER PIPE	OVERHEAD ELECTRIC
STRUCTURE NUMBER	FIBER OPTIC
WATER VALVE	UNDERGROUND TELEVISION
FIRE HYDRANT ASSEMBLY	OVERHEAD TELEVISION
AIR RELEASE VALVE	CHAIN LINK FENCE
FIRE DEPARTMENT CONNECTION	WOOD FENCE
WATER METER	BARBED WIRE FENCE
BACK FLOW PREVENTER	BUILDING SET BACK
REDUCER	RIGHT OF WAY
RECTANGULAR DROP INLET, GRATED INLET OR JUNCTION BOX (SPECIFY ON PLAN SHEET)	PROPERTY LINE
CIRCULAR DROP INLET, GRATED INLET OR JUNCTION BOX (SPECIFY ON PLAN SHEET)	ROAD CENTERLINE

GENERAL NOTES

1. THE DESIGN, INSPECTION, AND CERTIFICATION OF ANY RETAINING WALL SHOWN OR REFERENCED HEREIN, INCLUDING BUT NOT LIMITED TO, SEGMENTAL RETAINING WALLS, MASS GRAVITY WALLS, GABION WALLS, ETC., GREATER THAN FORTY-EIGHT INCHES IN HEIGHT, SHALL BE BY OTHERS. ANY RETAINING WALL DATA SHOWN OR REFERENCED HEREIN SHALL BE ONLY FOR COORDINATION OF THE WALL LOCATION AND ELEVATIONS.
2. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE DRAWINGS IS BASED ON A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE DRAWINGS. CRAFTON TULL ASSUMES NO RESPONSIBILITY REGARDING THE ACCURACY OF THE DEPICTED LOCATION(S) OF THE UNDERGROUND FACILITIES ON THESE DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ANY OTHER FACILITIES NOT SHOWN ON THESE DRAWINGS. CONTRACTOR SHALL VERIFY LOCATION OF ALL FACILITIES BEFORE BEGINNING WORK.
3. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN OR NEAR THE CONSTRUCTION SITE.
4. THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICES, IS THE PROPERTY OF CRAFTON, TULL & ASSOCIATES, INC. AND IS NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CRAFTON, TULL & ASSOCIATES, INC.
5. CONTRACTOR SHALL NOT CAUSE ANY LONG-TERM INCONVENIENCE TO THE PUBLIC, ADJACENT PROPERTY OWNERS, PEDESTRIANS, ETC. DURING CONSTRUCTION OF THIS PROJECT. CONTRACTOR SHALL PROVIDE ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES DURING CONSTRUCTION.
6. CONTRACTOR SHALL CONTACT THE ENGINEER FOR CLARIFICATION IF A DISCREPANCY OR INCONSISTENCY IS IDENTIFIED IN THE PLANS OR SPECIFICATIONS.
7. CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL SHEETING, SHORING, AND SPECIAL EXCAVATION MEASURES REQUIRED ON THE PROJECT WHICH ARE NECESSARY TO CONFORM TO OSHA, FEDERAL, STATE AND LOCAL REGULATIONS.
8. ENGINEER OF RECORD SHALL OBSERVE THE INSTALLATION OF THE WATER & SEWER MAINS. BEYOND THAT SCOPE, CRAFTON TULL & ASSOCIATES, INC. (CTA) HAS NOT BEEN RETAINED BY THE OWNER FOR CONSTRUCTION ADMINISTRATION OR OBSERVATION SERVICES FOR THE WORK INDICATED ON THESE DRAWINGS. THEREFORE, CTA HEREBY NOTIFIES ALL PARTIES INVOLVED THAT CRAFTON, TULL & ASSOCIATES, INC. ASSUMES NO RESPONSIBILITY FOR THE INTERPRETATION, COORDINATION, OR ADMINISTRATION OF THESE DOCUMENTS AND/OR DEVIATIONS THEREOF. FURTHERMORE, CRAFTON, TULL & ASSOCIATES, INC. WILL NOT BE RESPONSIBLE FOR ANY EFFECTS THAT ANY CHANGES TO THESE DOCUMENTS MAY HAVE ON ANY RELATED TRADES, CONSTRUCTION SEQUENCES, OR OPERATION OF THE COMPLETED PROJECT EXCEPT AS SPECIFICALLY NOTED IN THE AGREEMENT BETWEEN CRAFTON, TULL & ASSOCIATES AND THE OWNER.
9. ENERGIZED ELECTRICAL LINE SAFETY, WARNINGS, AND ADVANCED NOTICES: ALL OWNERS, GENERAL CONTRACTORS, AND SUBCONTRACTORS ASSOCIATED WITH THIS PROJECT SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH, COMPLYING WITH, AND THE ENFORCEMENT OF ARKANSAS CODES AR ST § 11-5-307 AND § AR ST 11-5-308 AND ANY OTHER CURRENT STATE CODES PERTAINING TO ADVANCE NOTICE REQUIREMENTS AND FOR SAFETY OF ALL PERSONNEL, INCLUDING THE GENERAL PUBLIC, PERTAINING TO ANY WORK, MOVEMENT, AND ACTIVITY IN CLOSE PROXIMITY TO ANY ENERGIZED ELECTRICAL LINE.

UTILITY CONTACTS

WATER/WASTEWATER
BRYANT WATER DEPARTMENT
210 SW 3RD ST.
BRYANT, AR 72022
(501) 943-0441

GAS
SUMMIT UTILITIES
2205 EAST ROOSEVELT ROAD
LITTLE ROCK, AR 72201
PHONE: (800) 992-7552

ELECTRIC
ENTERGY
425 W. CAPITAL AVE.
LITTLE ROCK, AR 72201
(877) 387-2499

TELEPHONE
AT&T
(800) 288-2020

CABLE TELEVISION
COMCAST CABLE
(800) 934-6489

SITE STABILIZATION AND CERTIFICATION

CRAFTON TULL CANNOT CERTIFY THE SITE AS COMPLETE IN ORDER TO OBTAIN THE CERTIFICATE OF OCCUPANCY UNTIL ALL DISTURBED AREAS RELATED TO THE CONSTRUCTION OF THE PROJECT, BOTH ONSITE AND OFFSITE, HAVE BEEN STABILIZED PER THE PLANS AND SPECIFICATIONS AND ALL REQUIREMENTS SPELLED OUT IN PERMITS ISSUED BY THE STATE AND LOCAL AUTHORITIES HAVE BEEN MET.

PROJECT INFORMATION

ZONING:	C-3
MAXIMUM LOT COVERAGE:	35% ALLOWED 6% PROVIDED
MAX ALLOWABLE HEIGHT:	5 STORY/60 FEET
BUILDING SETBACKS:	FRONT: 50' SIDE: 25' REAR: 25'
SITE AREA:	1.57 ACRES ±
BUILDING SIZE:	2,480 SF
BUILDING USAGE:	RESTAURANT WITH DRIVE THRU
FINISHED FLOOR ELEVATION:	SEE GRADING PLAN
PROPERTY USAGE:	GENERAL COMMERCIAL
PROPERTY OWNER:	ANCHOR REALTY INVESTMENTS, LLC 102 COUNTY CLUB PKWY. MAUMELLE, AR 72113 501-256-9187
DEVELOPER:	TERRA EQUITIES, LLC 2530 WATKINS RD BIRMINGHAM, AL 35223 206-862-4398
SITE ENGINEER/SURVEYOR:	CRAFTON, TULL & ASSOCIATES 10825 FINANCIAL CENTER PARKWAY, SUITE 300 LITTLE ROCK, AR 72211 PHONE: 501.664.3245 FAX: 501.664.6704
REQUIRED PARKING:	RETAIL COMMERCIAL 1 SPACE / 300 SF 2,480 SF / 300 SF = 8.3 SPACES
PROVIDED PARKING:	67 SPACES

FLOOD PLAIN STATEMENT
NO PORTION OF THE PROPERTY SHOWN HEREON IS LOCATED WITHIN THE 100-YEAR FLOOD PLAIN AS DESIGNATED BY THE FLOOD INSURANCE RATE MAP, PANEL NO. 05125C0380E, PUBLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY DATED JUNE 5, 2020.

PROPERTY DESCRIPTION:

LANDS LYING IN PART OF THE NORTHEAST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 21, TOWNSHIP 1 SOUTH, RANGE 14 WEST, SALINE COUNTY, ARKANSAS. MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHEAST CORNER OF LOT 1, SULLIVAN PLACE SUBDIVISION, BRYANT, SALINE COUNTY, ARKANSAS, FILED FOR RECORD AS INSTRUMENT NUMBER 1999-54493, RECORDS OF SALINE COUNTY, ARKANSAS, THENCE SOUTH 88 DEGREES 19 MINUTES 06 SECONDS EAST 63.73 FEET, THENCE SOUTH 00 DEGREES 39 MINUTES 52 SECONDS EAST 109.60 FEET, WHICH IS THE POINT OF BEGINNING, THENCE CONTINUE SOUTH 00 DEGREES 39 MINUTES 52 SECONDS EAST 200.97 FEET, THENCE NORTH 87 DEGREES 07 MINUTES 25 SECONDS WEST 5.01 FEET, THENCE SOUTH 00 DEGREES 39 MINUTES 52 SECONDS EAST 43.66 FEET, THENCE SOUTH 19 DEGREES 22 MINUTES 47 SECONDS WEST, 61.38 FEET, THENCE NORTH 70 DEGREES 37 MINUTES 13 SECONDS WEST, 22.95 FEET, THENCE NORTH 04 DEGREES 42 MINUTES 54 SECONDS EAST 53.18 FEET, THENCE NORTH 85 DEGREES 17 MINUTES 06 SECONDS WEST, 250.10 FEET, THENCE NORTH 04 DEGREES 42 MINUTES 54 SECONDS EAST 229.80 FEET, THENCE SOUTH 88 DEGREES 19 MINUTES 06 SECONDS EAST 270.29 FEET TO THE POINT OF BEGINNING.

TOGETHER WITH A NON-EXCLUSIVE EASEMENT FOR INGRESS AND EGRESS MORE PARTICULARLY DESCRIBED IN ACCESS EASEMENT FILED FOR RECORD JULY 10, 2013, AS INSTRUMENT NUMBER 2013065418, RECORDS OF SALINE COUNTY, ARKANSAS.

Sheet List Table

SHEET NUMBER	SHEET TITLE
C-001	COVER SHEET
C-002	PROJECT CONTROL
C-003	DEMO PLAN
C-101	SITE PLAN
C-102	UTILITY PLAN
C-103	GRADING PLAN
C-104	PAVING PLAN
C-105	EROSION CONTROL PH. I
C-106	EROSION CONTROL PH. II
C-107	EROSION CONTROL NOTES
C-501	EROSION CONTROL DETAILS
C-502	ADA DETAILS
C-503	SITE DETAILS
L-101	PLANTING PLAN
L-501	PLANTING DETAILS
LI-501	IRRIGATION DETAILS SHT. 1
LI-502	IRRIGATION DETAILS SHT. 2

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CERTIFICATE OF AUTHORIZATION:
CERTIFICATE OF AUTHORIZATION
CRAFTON, TULL & ASSOCIATES, INC.
No. 109
ARKANSAS ENGINEER

PANERA BREAD
BRYANT, AR

Key Plan

No.	Description	Date

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PROJECT NO: 24304000
ISSUE DATE: 01/6/25
CONTACT: T.TOLLEY
QC by:
QC Date:

PRELIMINARY PLANS

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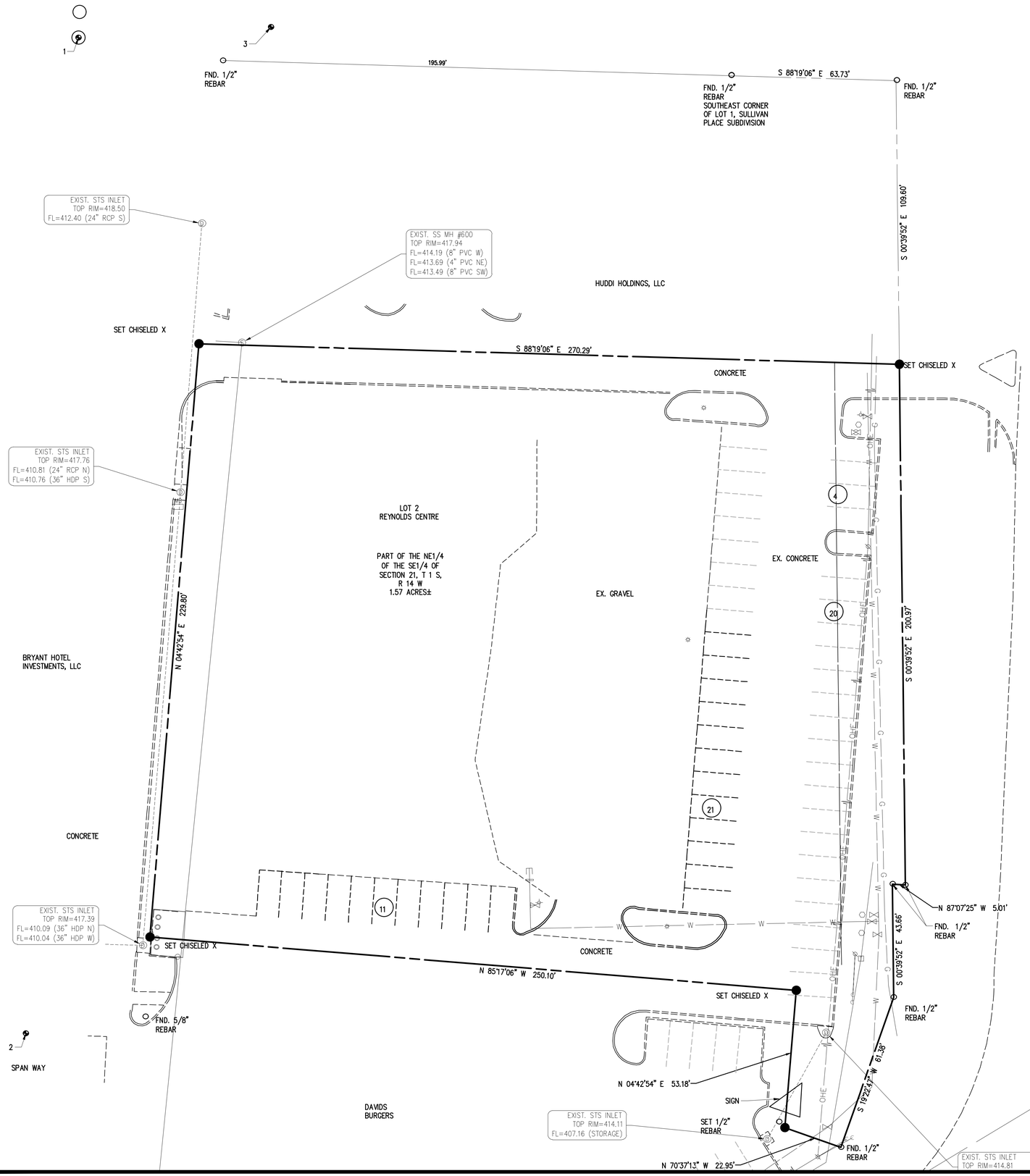
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COVER SHEET

C-001

DRAWING: Z:\24304000_PANERA\BRYANT\ARCHITECTURE\CIVIL\DWG\COVER.DWG
LAST PLOTTED BY: AUSTIN BROWN, 1/7/2025 8:23:01 AM



LEGEND (EXISTING)

SYMBOLS	LINEWORK
CONTROL POINT	PROPERTY LINE
	RIGHT-OF-WAY
	CENTERLINE
	CURB

NOTE

ONLY THE CONTROL POINTS, COORDINATE VALUES, AND ELEVATIONS SHOWN ON THIS SHEET SHALL BE USED ON THIS PROJECT. CRAFTON, TULL & ASSOCIATES SHALL NOT BE RESPONSIBLE FOR ANY CONSEQUENCES OF USING CONTROL POINTS, COORDINATE VALUES OR ELEVATIONS ESTABLISHED OR DERIVED FROM OTHER SOURCES. CRAFTON, TULL & ASSOCIATES, AT ITS SOLE DISCRETION, MAY ALLOW THE USE OF ALTERNATIVE OR ADDITIONAL CONTROL, BY A WRITTEN AMENDMENT TO THIS SHEET SEALED BY THE RESPONSIBLE SURVEYOR. USERS OF THESE CONTROL POINTS SHALL EXERCISE DUE CARE AND GOOD SURVEYING PRACTICE AND IMMEDIATELY NOTIFY THE CRAFTON, TULL & ASSOCIATES PROJECT ENGINEER OF ANY INCONSISTENCIES IN THE OBSERVED COORDINATE VALUES, ELEVATIONS AND DESCRIPTIONS FOR CONTROL POINTS SHOWN ON THIS SHEET.

CONTROL POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	2023482.37	1161796.55	422.47	CTL ALUMCAP
2	2023097.95	1161776.29	414.58	CTL PKNAIL
3	2023486.40	1161870.80	423.60	CTL PKNAIL

VICINITY MAP NTS

BASIS OF BEARING: GRID NORTH, ARKANSAS STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (0302), DETERMINED BY GPS OBSERVATIONS. APPROXIMATE CONVERGENCE ANGLE IS , -00° 16'47.15220". DISTANCES ARE STATE PLANE GRID DISTANCES. COMBINED ADJUSTMENT FACTOR = 0.999970446.

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CERTIFICATE OF AUTHORIZATION — CRAFTON, TULL & ASSOCIATES, INC. No. 109 — ARKANSAS ENGINEER

GRAPHIC SCALE IN FEET
20' 0 20'

Key Plan

No.	Description	Date

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PROJECT NO: 24304000
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CONTACT: T.TOLLEY
QC By:
QC Date:

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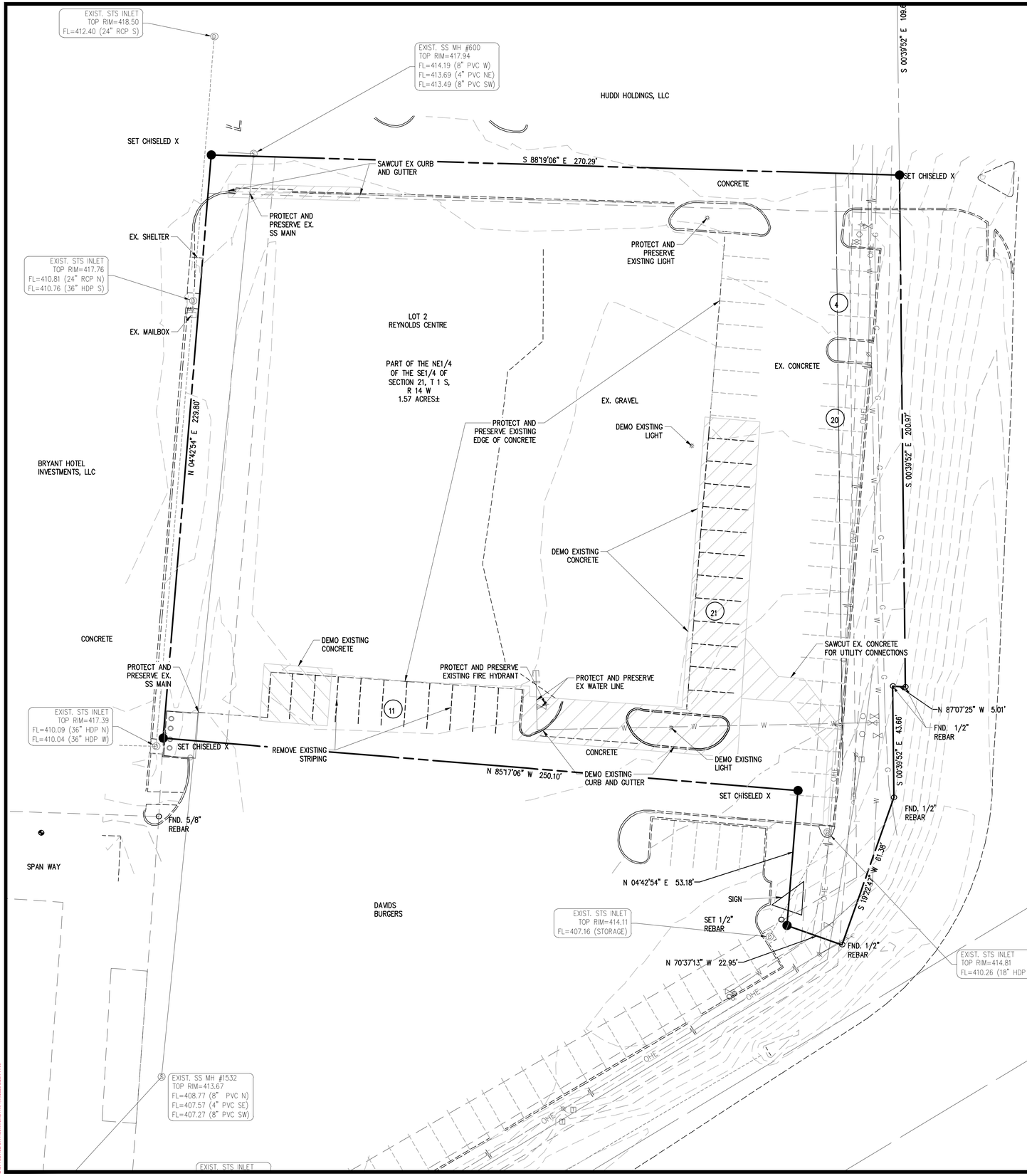
PANERA BREAD

BRYANT, AR

PROJECT CONTROL

C-002

DRAWING: Z:\24304000 PANERA\MISC\VIVERA\DISTRICT\DISTCAD\S1\DWG\PROJECT CONTROL.DWG
LAST PLOTTED: 2025-02-06 08:57:37 AM
LAST PLOTTED BY: JUSTIN BROWN, I:\2022\22-0237 AM



LEGEND (EXISTING SYMBOLS)

SYMBOLS		LINEWORK	
	BENCHMARK		EASEMENT
	FOUND IRON PIPE/REBAR		CURB
	PRIMARY CONTROL/SET MONUMENT	1206	INTERMEDIATE CONTOUR
	FOUND MONUMENT/ROW	1205	INDEX CONTOUR
AC	AIR CONDITIONER	SS	SANITARY SEWER LINE (SPECIFY SIZE & TYPE)
ARV	AIR RELEASE VALVE	G	GAS LINE
	ELECTRIC BOX/PEDESTAL	W	WATER LINE (SPECIFY SIZE & TYPE)
EB	ELECTRIC JUNCTION BOX	UGT	UNDERGROUND TELEPHONE
E	ELECTRIC METER	UGE	UNDERGROUND ELECTRIC
	ELECTRIC TRANSFORMER	OHE	OVERHEAD ELECTRIC
FDC	FIRE DEPARTMENT CONNECTION	UGTV	UNDERGROUND TELEVISION
FH	FIRE HYDRANT	OHTV	OVERHEAD TELEVISION
GM	GAS METER		CHAIN LINK FENCE
GV	GAS VALVE		WOOD FENCE
	GUARD POST		BARBED WIRE FENCE
LP	LIGHT POLE	FO	FIBER OPTIC
PP	POWER POLE		RIGHT OF WAY
S	SANITARY MANHOLE		ROAD CENTERLINE
CO	SANITARY SEWER CLEANOUT		
	SIGN		
	SPRINKLER HEAD		
T	TELEPHONE PEDESTAL		
	TV PEDESTAL		
	WATER FAUCET		
WM	WATER METER		
WV	WATER VALVE		
	DOWN GUY		
D	STORM SEWER MANHOLE		
	STORM SEWER PIPE		
D	DROP/CURB INLET		GRATED INLET
	TREE		TREE TO BE REMOVED
			LIMITS OF DEMOLITION

DEMOLITION NOTES

1. CONTRACTOR SHALL ABIDE BY ALL FEDERAL, STATE, AND LOCAL CODES FOR THE DEMOLITION AND DISPOSAL OF ALL MATERIALS.
2. CRAFTON, TULL AND ASSOCIATES, INC. SHALL NOT BE LIABLE FOR ANY DEMOLITION PROCEDURES, SCHEDULING, AND DISPOSAL OF ANY MATERIALS.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE SURE THAT ADJACENT PROPERTY IS NOT DAMAGED AND IS ACCESSIBLE AT ALL TIMES, AND THAT CONSTRUCTION DOES NOT CREATE ANY HARDSHIP TO LAND OWNERS ADJACENT TO THE CONSTRUCTION SITE.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSING IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES, OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE, STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE SPECIFICATIONS.
5. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE DISCONNECTION, REMOVAL AND RELOCATION OF ALL UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
6. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING EXISTING IRRIGATION SYSTEM IN THE AREAS OF SITE IMPROVEMENTS. THE CONTRACTOR SHALL CAP THE EXISTING IRRIGATION SYSTEM TO REMAIN SUCH THAT THE REMAINING SYSTEM SHALL CONTINUE TO FUNCTION PROPERLY.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE DISCONNECTION OF UTILITY SERVICES TO THE EXISTING BUILDINGS PRIOR TO DEMOLITION OF THE BUILDINGS.
8. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ONSITE LOCATIONS OF EXISTING UTILITIES.
9. ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH WORK. UTILITIES DETERMINED TO BE ABANDONED AND LEFT IN PLACE SHALL BE GROUTED IF UNDER BUILDINGS.
10. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE.
11. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC.
12. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED PRIOR TO DEMOLITION.
13. CONTRACTOR MAY LIMIT SAW-CUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
14. CONTRACTOR SHALL MAINTAIN ALL EXISTING PARKING, SIDEWALKS, DRIVES, ETC. CLEAR AND FREE FROM ANY CONSTRUCTION ACTIVITY AND/OR MATERIAL TO ENSURE EASY AND SAFE PEDESTRIAN AND VEHICULAR TRAFFIC TO AND FROM THE SITE.
15. THE CONTRACTOR SHALL COORDINATE WATERMAIN WORK WITH THE FIRE DEPARTMENT AND THE CITY/COUNTY UTILITY DEPARTMENT TO PLAN WATERMAIN IMPROVEMENTS AND TO ENSURE ADEQUATE FIRE PROTECTION IS CONSTANTLY AVAILABLE TO THE SITE THROUGHOUT THIS SPECIFIC WORK AND THROUGH ALL PHASES OF CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR ARRANGING/PROVIDING ANY REQUIRED WATERMAIN SHUT-OFFS WITH THE CITY/COUNTY DURING CONSTRUCTION. ANY COSTS ASSOCIATED WITH WATERMAIN SHUT-OFFS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION WILL BE PROVIDED.
16. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE. REPAIRS SHALL RESTORE DAMAGED ITEMS TO EQUAL OR BETTER THAN, EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING ALL EXISTING DAMAGE AND NOTIFYING CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION START.
17. ALL TRENCHES AND/OR EXCAVATED AREAS SHALL BE FILLED/TESTED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING REPORT.
18. IF SEPTIC TANKS ARE FOUND PRESENT WITHIN THE LIMITS OF DISTURBANCE THEY SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL LAWS.
19. IF THE CONTRACTOR FINDS ANY UNDERGROUND TANKS ON SITE THEY SHALL CONTACT THE ENGINEER IMMEDIATELY.
20. ALL WELLS SHALL BE CAPPED AND CLOSED IN ACCORDANCE WITH APPLICABLE STATE AND FEDERAL LAW.

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No. 109
ARKANSAS ENGINEER

GRAPHIC SCALE IN FEET
20' 0 20'

PANERA BREAD
BRYANT, AR

Key Plan

No.	Description	Date

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PROJECT NO: 24304000
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CONTACT: T.TOLLEY
QC By:
QC Date:

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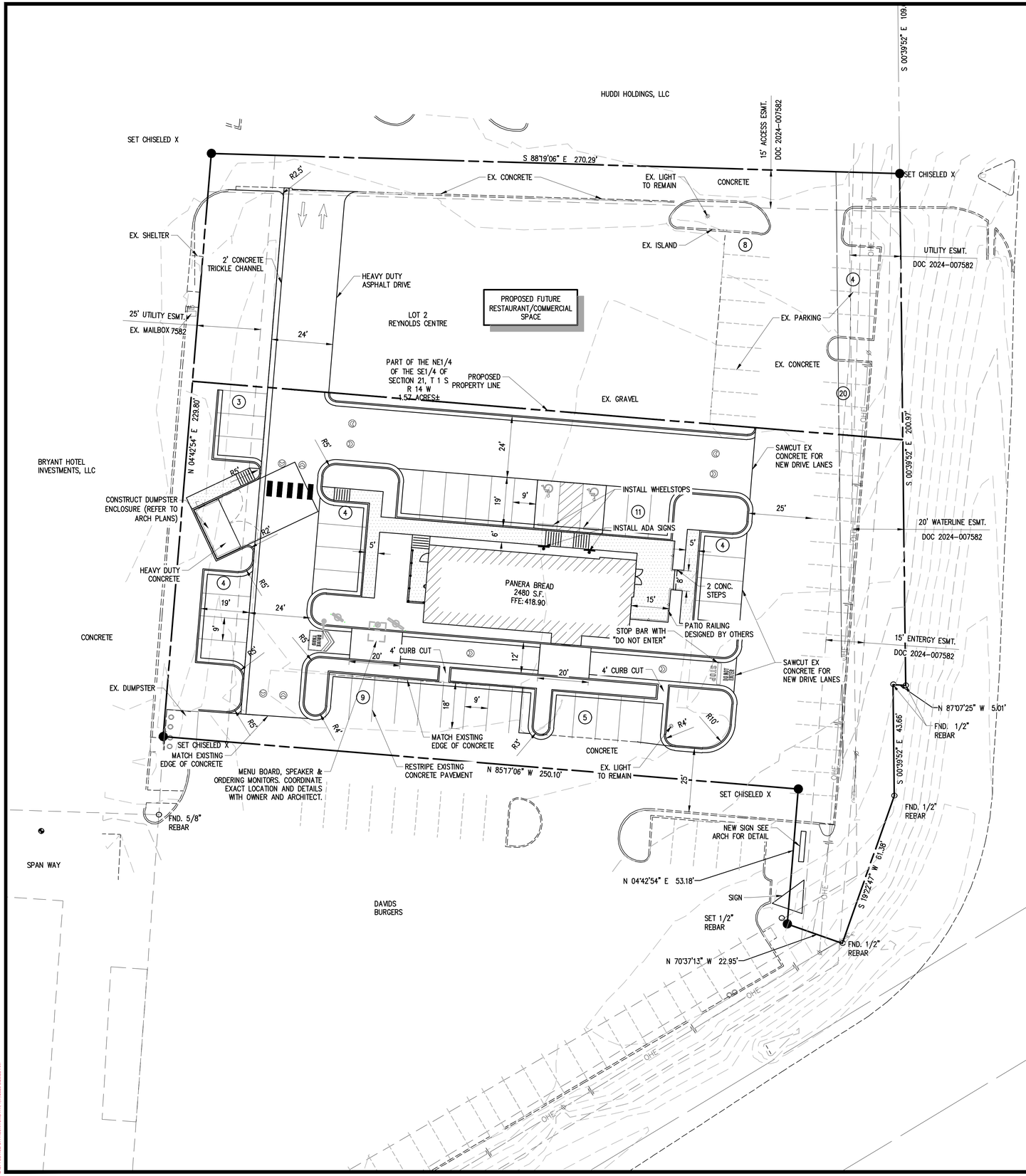
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DEMO PLAN

C-003

DRAWING: Z:\24304000_PANERA\CAD\ARKANSTRUCT\SHEETS\DWG\DEMO PLAN.DWG
LAST MODIFIED BY: ALEXIS BROWN, 1/7/2025 8:25:14 AM
LAST PLOTTED BY: ALEXIS BROWN, 1/7/2025 8:25:14 AM



SITE NOTES

1. THE DESIGN, INSPECTION, AND CERTIFICATION OF ANY RETAINING WALL SHOWN OR REFERENCED HEREIN, INCLUDING BUT NOT LIMITED TO, SEGMENTAL RETAINING WALLS, MASS GRAVITY WALLS, GABION WALLS, ETC., GREATER THAN FORTY-EIGHT INCHES IN HEIGHT, SHALL BE BY OTHERS. ANY RETAINING WALL DATA SHOWN OR REFERENCED HEREIN SHALL BE FOR COORDINATION OF THE WALL LOCATION AND ELEVATIONS ONLY.
2. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY/STATE/FEDERAL REGULATIONS AND CODES AND OSHA STANDARDS.
3. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULES, SLOPE PAVING, SIDEWALKS, EXIT PORCHES, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT UTILITY ENTRANCE LOCATIONS.
4. ALL CURB DIMENSIONS AND RADII ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
5. ALL PAVEMENT MARKINGS DIMENSIONS BACK OF CURB UNLESS OTHERWISE NOTED.
6. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
7. ALL CURB/SIDEWALK/HANDICAP RAMP DESIGNS SHALL CONFORM TO ADA STANDARDS OR LOCAL RESTRICTIVE CODES, WHICHEVER IS MORE RESTRICTIVE.
8. CONTRACTOR SHALL ENSURE ALL NECESSARY PERMITS ARE OBTAINED PRIOR TO CONSTRUCTION START.
9. CONTRACTOR SHALL MATCH NEW CURB AND GUTTER, CONCRETE, AND PAVEMENT TO EXISTING IN GRADE AND ALIGNMENT.
10. CONTRACTOR SHALL MAINTAIN ALL EXISTING PARKING, SIDEWALKS, DRIVES, ETC. CLEAR AND FREE FROM ANY CONSTRUCTION ACTIVITY AND/OR MATERIAL TO ENSURE EASY AND SAFE PEDESTRIAN AND VEHICULAR TRAFFIC TO AND FROM THE SITE.

LEGEND (EXISTING SYMBOLS)

SYMBOLS		LINEWORK	
	BENCHMARK		EASEMENT
	FOUND IRON PIPE/REBAR		CURB
	PRIMARY CONTROL/SET MONUMENT	1206	INTERMEDIATE CONTOUR
	FOUND MONUMENT/ROW	1205	INDEX CONTOUR
AC	AIR CONDITIONER	SS	SANITARY SEWER LINE (SPECIFY SIZE & TYPE)
ARV	AIR RELEASE VALVE	G	GAS LINE
	ELECTRIC BOX/PEDESTAL	W	WATER LINE (SPECIFY SIZE & TYPE)
EJ	ELECTRIC JUNCTION BOX	UGT	UNDERGROUND TELEPHONE
EM	ELECTRIC METER	UGE	UNDERGROUND ELECTRIC
ET	ELECTRIC TRANSFORMER	OHE	OVERHEAD ELECTRIC
FDC	FIRE DEPARTMENT CONNECTION	UGTV	UNDERGROUND TELEVISION
FH	FIRE HYDRANT	OHTV	OVERHEAD TELEVISION
GM	GAS METER		CHAIN LINK FENCE
GV	GAS VALVE		WOOD FENCE
	GUARD POST	X	BARBED WIRE FENCE
LP	LIGHT POLE	FO	FIBER OPTIC
PP	POWER POLE		RIGHT OF WAY
S	SANITARY MANHOLE		ROAD CENTERLINE
CO	SANITARY SEWER CLEANOUT		
	SIGN		
	SPRINKLER HEAD		
T	TELEPHONE PEDESTAL		
	TV PEDESTAL		
	WATER FAUCET		
WM	WATER METER		
WV	WATER VALVE		
	DOWN GUY		
D	STORM SEWER MANHOLE		
	STORM SEWER PIPE		
	DROP/CURB INLET		GRATED INLET
	TREE		TREE TO BE REMOVED

LEGEND (CONSTRUCT)

SYMBOLS		LINEWORK	
	SET IRON PIN		EASEMENT
	LIGHT POLE		CURB
	POWER POLE	1206	INTERMEDIATE CONTOUR
	TELEPHONE PEDESTAL	1205	INDEX CONTOUR
	TV PEDESTAL		SANITARY SEWER LINE
	MANHOLE		GAS LINE
	SANITARY SEWER CLEANOUT		WATER LINE
	GAS METER		UNDERGROUND TELEPHONE
	GAS VALVE		UNDERGROUND ELECTRIC
	STORM SEWER PIPE		OVERHEAD ELECTRIC
X-X	STRUCTURE NUMBER		FIBER OPTIC
	WATER VALVE		UNDERGROUND TELEVISION
	FIRE HYDRANT ASSEMBLY		CHAIN LINK FENCE
	AIR RELEASE VALVE		WOOD FENCE
	FIRE DEPARTMENT CONNECTION		BARBED WIRE FENCE
	WATER METER		BUILDING SET BACK
	BACK FLOW PREVENTER		RIGHT OF WAY
	REDUCER		PROPERTY LINE
	RECTANGULAR DROP INLET, GRATED INLET OR JUNCTION BOX (SPECIFY ON PLAN SHEET)		ROAD CENTERLINE
	CIRCULAR DROP INLET, GRATED INLET OR JUNCTION BOX (SPECIFY ON PLAN SHEET)		

PARKING

STANDARD PARKING SPACES	38
ACCESSIBLE PARKING SPACES	2
TOTAL PARKING SPACES	40

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GRAPHIC SCALE IN FEET
20' 0 20'

PANERA BREAD
BRYANT, AR

Key Plan

No.	Description	Date

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PROJECT NO: 24304000
ISSUE DATE: 01/6/25
CONTACT: T.TOLLEY
QC By:
QC Date:

PRELIMINARY PLANS

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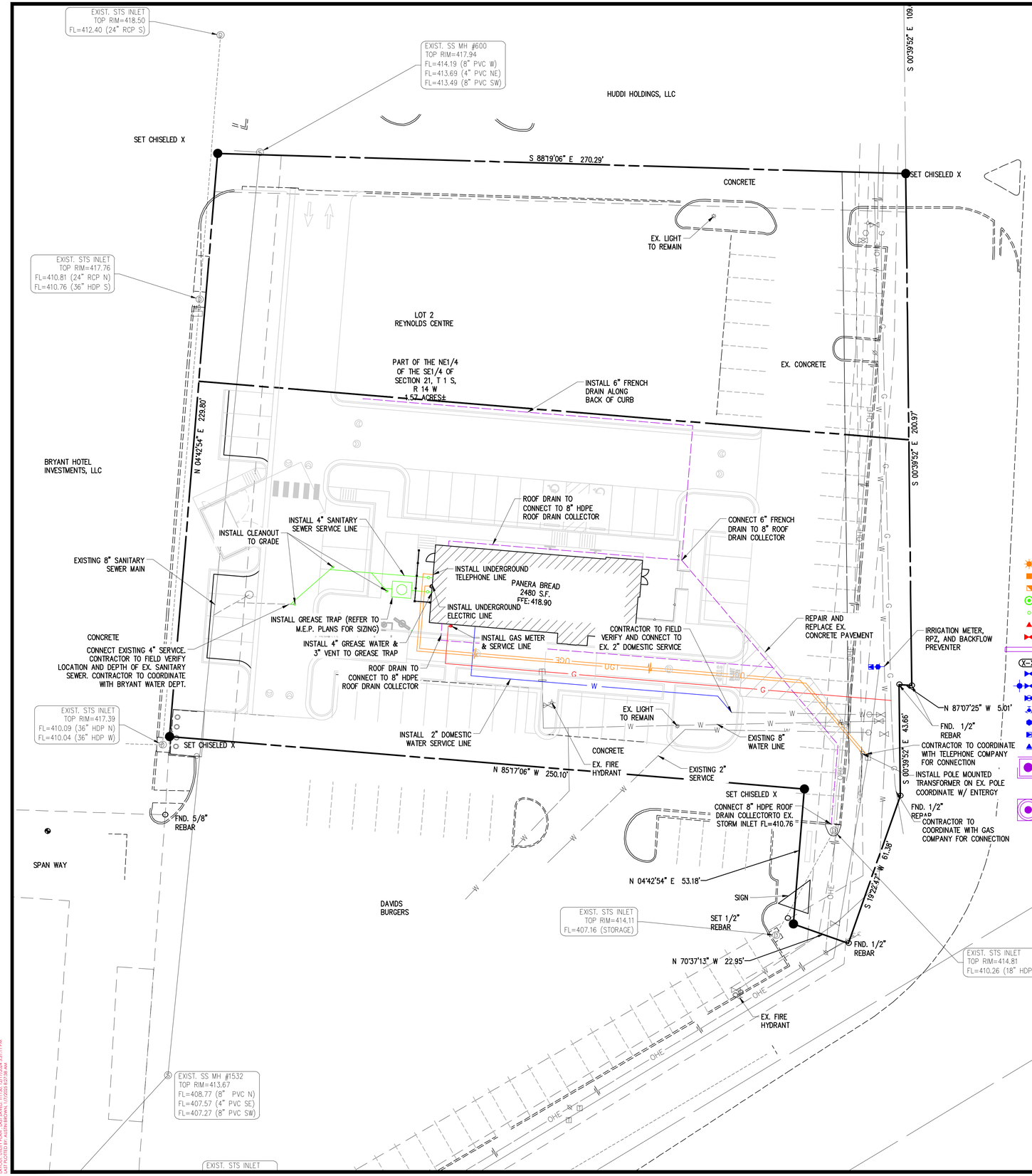
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SITE PLAN

C-101

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LEGEND (EXISTING SYMBOLS)

SYMBOLS	LINEWORK
BENCHMARK	EASEMENT
FOUND IRON PIPE/REBAR	CURB
PRIMARY CONTROL/SET MONUMENT	INTERMEDIATE CONTOUR
FOUND MONUMENT/ROW	INDEX CONTOUR
AIR CONDITIONER	SANITARY SEWER LINE (SPECIFY SIZE & TYPE)
ARV AIR RELEASE VALVE	GAS LINE
ELECTRIC BOX/PEDESTAL	WATER LINE (SPECIFY SIZE & TYPE)
ELECTRIC JUNCTION BOX	UNDERGROUND TELEPHONE
ELECTRIC METER	UNDERGROUND ELECTRIC
ELECTRIC TRANSFORMER	OVERHEAD ELECTRIC
FDC FIRE DEPARTMENT CONNECTION	UNDERGROUND TELEVISION
FH FIRE HYDRANT	OVERHEAD TELEVISION
GM GAS METER	CHAIN LINK FENCE
GV GAS VALVE	WOOD FENCE
GUARD POST	BARBED WIRE FENCE
LP LIGHT POLE	FIBER OPTIC
PP POWER POLE	RIGHT OF WAY
SANITARY MANHOLE	ROAD CENTERLINE
SANITARY SEWER CLEANOUT	
SIGN	
SPRINKLER HEAD	
TELEPHONE PEDESTAL	
TV PEDESTAL	
WATER FAUCET	
WM WATER METER	
WV WATER VALVE	
DOWN GUY	
STORM SEWER MANHOLE	
STORM SEWER PIPE	
DROP/CURB INLET	GRATED INLET
TREE	TREE TO BE REMOVED

LEGEND (CONSTRUCT)

SYMBOLS	LINEWORK
LIGHT POLE	EASEMENT
TELEPHONE PEDESTAL	CURB
TV PEDESTAL	SANITARY SEWER LINE
MANHOLE	GAS LINE
SANITARY SEWER CLEANOUT	WATER LINE
GAS METER	UNDERGROUND TELEPHONE
GAS VALVE	UNDERGROUND ELECTRIC
STORM SEWER PIPE	OVERHEAD ELECTRIC
STRUCTURE NUMBER	FIBER OPTIC
WATER VALVE	UNDERGROUND TELEVISION
FIRE HYDRANT ASSEMBLY	RIGHT OF WAY
AIR RELEASE VALVE	PROPERTY LINE
FIRE DEPARTMENT CONNECTION	
WATER METER	
BACK FLOW PREVENTER	
REDUCER	
RECTANGULAR DROP INLET, GRATED INLET OR JUNCTION BOX (SPECIFY ON PLAN SHEET)	
CIRCULAR DROP INLET, GRATED INLET OR JUNCTION BOX (SPECIFY ON PLAN SHEET)	

UTILITY CONTACTS

WATER/WASTEWATER
BRYANT WATER DEPARTMENT
210 SW 3RD ST.
BRYANT, AR 72022
(501) 943-0441

GAS
SUMMIT UTILITIES
2205 EAST ROOSEVELT ROAD
LITTLE ROCK, AR 72201
PHONE: (800) 992-7552

ELECTRIC
ENTERGY
425 W. CAPITAL AVE.
LITTLE ROCK, AR 72201
(877) 387-2499

TELEPHONE
AT&T
(800) 288-2020

CABLE TELEVISION
COMCAST CABLE
(800) 934-6489

UTILITY NOTES

1. THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF EXISTING UTILITIES WITHIN THE WORK ZONE.
2. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES' INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING FACILITIES. CONTRACTOR SHALL COORDINATE AND SCHEDULE TIE-INS/CONNECTIONS WITH ALL UTILITY COMPANIES.
3. ALL UNDERGROUND LINES SHALL BE INSTALLED, INSPECTED, AND APPROVED PRIOR TO BACKFILLING.
4. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICE.
5. GENERAL CONTRACTOR IS TO COORDINATE WITH APPROPRIATE UTILITY COMPANIES PRIOR TO CONSTRUCTION, ADJUSTMENT, OR RELOCATION OF EXISTING UTILITIES.
6. THRUST BLOCKING SHALL BE PROVIDED AT ALL BENDS, TEES, AND FIRE HYDRANTS.
7. DIMENSIONS SHOWN ARE TO CENTERLINE OF PIPE OR FITTING.
8. MINIMUM HORIZONTAL SEPARATION BETWEEN THE OUTSIDE WALL OF THE WATERLINE AND THE OUTSIDE WALL OF THE SANITARY SEWER LINE OR SANITARY SEWER MANHOLE SHALL BE AT LEAST TEN FEET. WHERE WATERLINES CROSS SANITARY SEWERS THE WATERLINE SHALL BE PLACED ABOVE THE SEWER WITH A MINIMUM VERTICAL SEPARATION, OUTSIDE-TO-OUTSIDE, OF 18". IF IT IS NOT POSSIBLE TO CONFORM TO THESE DIMENSIONS OR DEFINED PLACEMENT, THE WATERLINE SHALL BE ENCASED IN WATERTIGHT PIPE WITH SEALED WATERTIGHT ENDS EXTENDING AT LEAST TEN FEET EITHER SIDE OF THE CROSSING.
9. THE CONTRACTOR SHALL INCLUDE IN THE BID PRICE ALL MATERIAL AND LABOR ASSOCIATED WITH THE TESTING OF THE WATER AND SEWER LINES REQUIRED BY THE LOCAL AND/OR STATE AGENCIES.
10. TOPS OF EXISTING MANHOLES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH FINISHED PAVEMENT ELEVATIONS, AND MANHOLES IN UNPAVED AREAS TO BE 1" ABOVE FINISHED GROUND ELEVATIONS WITH WATER TIGHT LIDS.
11. ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL REGULATIONS.
12. REFER TO BUILDING PLANS FOR SITE LIGHTING AND ELECTRICAL PLAN.
13. ALL MATERIALS, CONSTRUCTION, AND INSPECTION FOR WATER AND SANITARY SEWER LINES SHALL BE PER THE SPECIFICATIONS OF THE APPROPRIATE AGENCY.
14. THE CONTRACTOR SHALL COORDINATE WITH THE FIRE DEPARTMENT AND THE WATER COMPANY TO PLAN THE IMPROVEMENTS TO THE WATER MAINS AND TO ENSURE ADEQUATE FIRE PROTECTION IS CONSTANTLY AVAILABLE TO THE SITE THROUGHOUT THE PROJECT. CONTRACTOR WILL BE RESPONSIBLE FOR ARRANGING ANY REQUIRED WATER MAIN SHUT-OFFS WITH THE WATER COMPANY DURING CONSTRUCTION. ALL COSTS ASSOCIATED WITH WATERMAIN SHUT-OFFS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR; NO ADDITIONAL COMPENSATION WILL BE PROVIDED.
15. DAMAGE TO ALL EXISTING FACILITIES DESIGNATED TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.
16. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULES, SLOPE PAVING, SIDEWALKS, EXIT PORCHES, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS, AND EXACT UTILITY ENTRANCE LOCATIONS.
17. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TAP AND TIE ON FEES REQUIRED AS WELL AS COSTS OF UNDERGROUND SERVICE CONNECTIONS TO THE BUILDING.
18. GENERAL CONTRACTOR SHALL PROVIDE ALL CONDUITS AS SHOWN ON THE PLANS, VERIFY LOCATION OF UTILITY TIE-INS, AND PROVIDE NYLON PULL CORDS INSIDE THE CONDUIT.
19. THE CONTRACTOR SHALL INCLUDE IN BID PRICE THE DAILY RECORD KEEPING OF THE RECORD CONDITION OF ALL OF THE UNDERGROUND UTILITIES, CONSTRUCTION STAKE-OUT, PREPARATION OF THE NECESSARY/REQUIRED WATER AND SEWER RECORD DRAWINGS TO BE SUBMITTED, AND ALL OTHER INFORMATION REQUIRED FOR OBTAINING PERMITS AND RELEASE OF BONDS.
20. ENERGIZED ELECTRICAL LINE SAFETY, WARNINGS, AND ADVANCED NOTICES: ALL OWNERS, GENERAL CONTRACTORS, AND SUBCONTRACTORS ASSOCIATED WITH THIS PROJECT SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH, COMPLYING WITH, AND THE ENFORCEMENT OF ARKANSAS CODES AR ST § 11-5-307 AND § AR ST 11-5-308 AND ANY OTHER CURRENT STATE CODES PERTAINING TO ADVANCE NOTICE REQUIREMENTS AND FOR SAFETY OF ALL PERSONNEL, INCLUDING THE GENERAL PUBLIC, PERTAINING TO ANY WORK, MOVEMENT, AND ACTIVITY IN CLOSE PROXIMITY TO ANY ENERGIZED ELECTRICAL LINE.

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GRAPHIC SCALE IN FEET
20' 0 20'

PANERA BREAD
BRYANT, AR

Key Plan

No.	Description	Date

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PROJECT NO: 24304000
ISSUE DATE: 01/6/25
CONTACT: T.TOLLEY
QC By:
QC Date:
PRELIMINARY PLANS

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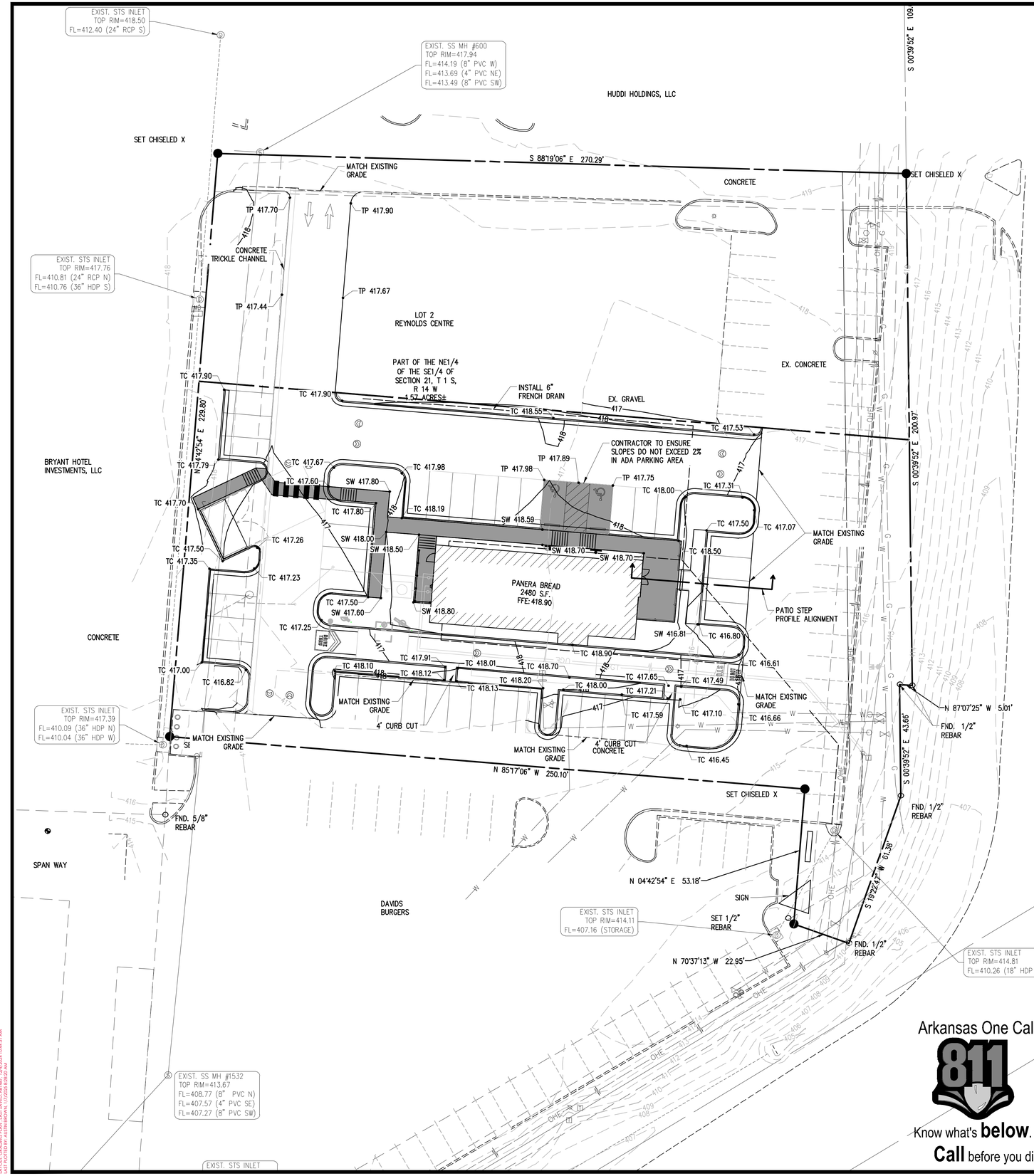
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UTILITY PLAN

C-102

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LAST PLOTTED BY: ALEXIS BROWN, 1/7/2025 8:27:39 AM



LEGEND (EXISTING SYMBOLS)

SYMBOLS	LINEWORK
BENCHMARK	EASEMENT
FOUND IRON PIPE/REBAR	CURB
PRIMARY CONTROL/SET MONUMENT	INTERMEDIATE CONTOUR
FOUND MONUMENT/ROW	INDEX CONTOUR
AIR CONDITIONER	SANITARY SEWER LINE (SPECIFY SIZE & TYPE)
AIR RELEASE VALVE	GAS LINE
ELECTRIC BOX/PEDESTAL	WATER LINE (SPECIFY SIZE & TYPE)
ELECTRIC JUNCTION BOX	UNDERGROUND TELEPHONE
ELECTRIC METER	UNDERGROUND ELECTRIC
ELECTRIC TRANSFORMER	OVERHEAD ELECTRIC
FIRE DEPARTMENT CONNECTION	OVERHEAD TELEVISION
FIRE HYDRANT	CHAIN LINK FENCE
GAS METER	WOOD FENCE
GAS VALVE	BARBED WIRE FENCE
GUARD POST	FIBER OPTIC
LIGHT POLE	RIGHT OF WAY
POWER POLE	ROAD CENTERLINE
SANITARY MANHOLE	
SANITARY SEWER CLEANOUT	
SIGN	
SPRINKLER HEAD	
TELEPHONE PEDESTAL	
TV PEDESTAL	
WATER FAUCET	
WATER METER	
WATER VALVE	
DOWN GUY	
STORM SEWER MANHOLE	
STORM SEWER PIPE	
DROP/CURB INLET	GRATED INLET
TREE	TREE TO BE REMOVED

LEGEND (CONSTRUCT)

SYMBOLS	LINEWORK
SET IRON PIN	EASEMENT
LIGHT POLE	CURB
POWER POLE	INTERMEDIATE CONTOUR
TELEPHONE PEDESTAL	INDEX CONTOUR
TV PEDESTAL	SANITARY SEWER LINE
MANHOLE	GAS LINE
SANITARY SEWER CLEANOUT	WATER LINE
GAS METER	UNDERGROUND TELEPHONE
GAS VALVE	UNDERGROUND ELECTRIC
STORM SEWER PIPE	OVERHEAD ELECTRIC
STRUCTURE NUMBER	FIBER OPTIC
WATER VALVE	UNDERGROUND TELEVISION
FIRE HYDRANT ASSEMBLY	CHAIN LINK FENCE
AIR RELEASE VALVE	WOOD FENCE
FIRE DEPARTMENT CONNECTION	BARBED WIRE FENCE
WATER METER	BUILDING SET BACK
BACK FLOW PREVENTER	RIGHT OF WAY
REDUCER	PROPERTY LINE
RECTANGULAR DROP INLET, GRATED INLET OR JUNCTION BOX (SPECIFY ON PLAN SHEET)	ROAD CENTERLINE
CIRCULAR DROP INLET, GRATED INLET OR JUNCTION BOX (SPECIFY ON PLAN SHEET)	

GRADING PLAN SPOT ELEVATIONS

FG	FINISHED GRADE
TW	TOP WALL
BW	BOTTOM WALL
FL	FLOW LINE
TC	TOP CURB
G	GUTTER
SW	SIDEWALK
TP	TOP PAVEMENT
×^{EG}	EXISTING GRADE
LP	LOW POINT

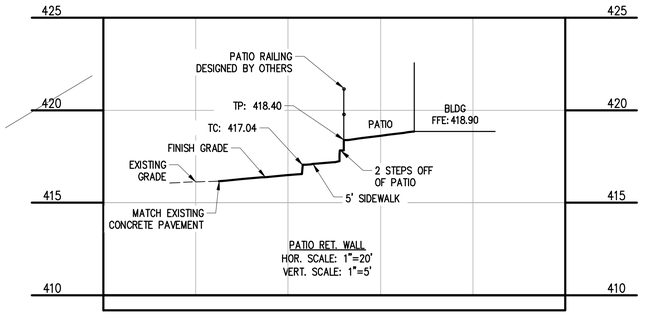
GRADING AND DRAINAGE NOTES

1. THE DESIGN, INSPECTION, AND CERTIFICATION OF ANY RETAINING WALL SHOWN OR REFERENCED HEREIN, INCLUDING BUT NOT LIMITED TO, SEGMENTAL RETAINING WALLS, MASS GRAVITY WALLS, GABION WALLS, ETC., GREATER THAN FORTY-EIGHT INCHES IN HEIGHT, SHALL BE BY OTHERS. ANY RETAINING WALL DATA SHOWN OR REFERENCED HEREIN SHALL BE FOR COORDINATION OF THE WALL LOCATION AND ELEVATIONS ONLY.
2. THE OWNER/CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR OBTAINING AND PROVIDING SEPARATE AND INDEPENDENT RETAINING WALL DESIGNS, INSPECTIONS, AND CERTIFICATIONS BY A REGISTERED PROFESSIONAL ENGINEER OTHER THAN CRAFTON TULL. THIS SHALL ALSO APPLY TO ANY ASSOCIATED AND NECESSARY PUBLIC SAFETY DEVICES INCLUDING, BUT NOT LIMITED TO, PEDESTRIAN SAFETY RAILS.
3. THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF EXISTING UTILITIES ON SITE OR IN RIGHT-OF-WAY. ALL UTILITIES MUST BE LOCATED PRIOR TO GRADING START.
4. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
5. ALL CUT OR FILL SLOPES SHALL BE A MAX 3:1 SLOPE OR FLATTER UNLESS OTHERWISE NOTED.
6. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITION OR BETTER.
7. ALL STORM SEWER PIPE CONNECTIONS TO STRUCTURES SHALL BE GROUTED TO ENSURE CONNECTION AT STRUCTURE IS WATERTIGHT. ALL STORM SEWER STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR INVERT FROM INVERT IN TO INVERT OUT.
8. ALL DRAINAGE STRUCTURES AND STORM SEWER PIPES SHALL MEET HEAVY DUTY TRAFFIC (H20) LOADING AND BE INSTALLED ACCORDINGLY WHEN IN PAVED AND TRAFFIC AREAS.
9. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH THE PAVEMENT AND SHALL HAVE TRAFFIC BEARING RINGS AND COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 1" ABOVE FINISH GRADE. LIDS SHALL BE LABELED PER JURISDICTIONAL SPECIFICATIONS.
10. SITE GRADING SHALL NOT PROCEED UNTIL APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED. THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS AS OUTLINED IN THE GENERAL NPDES PERMIT AND THE SWPPP FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
11. ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL TO FINAL GRADE. REFER TO THE LANDSCAPE PLAN.
12. TOPOGRAPHIC INFORMATION TAKEN FROM A TOPOGRAPHIC SURVEY BY LAND SURVEYORS. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON PLANS, CONTACT ENGINEER IMMEDIATELY.
13. THE CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS THROUGHOUT ALL PHASES OF CONSTRUCTION.
14. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULES, SLOPE PAVING, SIDEWALKS, EXIT PORCHES, TRUCK DOCKS, PRECISE BUILDING DIMENSIONS AND EXACT UTILITY ENTRANCE LOCATIONS.
15. THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL BUILDING PLANS AND SPECIFICATIONS.
16. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
17. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ENSURE A SMOOTH FIT AND CONTINUOUS GRADE.
18. CONTRACTOR SHALL MAINTAIN ALL EXISTING PARKING, SIDEWALKS, DRIVES, ETC. CLEAR AND FREE FROM ANY CONSTRUCTION ACTIVITY AND/OR MATERIAL TO ENSURE EASY AND SAFE PEDESTRIAN AND VEHICULAR TRAFFIC TO AND FROM THE SITE.
19. IF WET AREAS ARE ENCOUNTERED ON-SITE THE CONTRACTOR SHALL COORDINATE WITH THE GEOTECHNICAL ENGINEER FOR THE DESIGN AND PLACEMENT OF A FRENCH DRAIN SYSTEM.

ACCESSIBILITY NOTES

INDICATES ACCESSIBLE ROUTE.

1. THE AREAS ON THIS SHEET INDICATED BY THIS HATCH PATTERN ARE CONSIDERED AN ACCESSIBLE ROUTE AND SHALL MEET THE LATEST EDITIONS AND GUIDELINES PROVIDED BY THE FAIR HOUSING ACT (FHA) AND/OR THE AMERICANS WITH DISABILITIES ACT (ADA).
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT THE ACCESSIBLE ROUTES PER THESE PLANS AND THE FHA/ADA GUIDELINES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCY IN THE DETAILS AND GRADES PROVIDED ON THE GRADING PLAN PRIOR TO PLACING ANY CONCRETE.
3. THE MAXIMUM CROSS SLOPE SHALL NOT EXCEED 2% FOR ANY ACCESSIBLE ROUTE.
4. THE MAXIMUM RUNNING SLOPE SHALL NOT EXCEED 5% FOR AN ACCESSIBLE ROUTE UNLESS A RAMP IS PROVIDED THAT MEETS THE REQUIREMENTS OF AN ACCESSIBLE ROUTE (SEE DETAILS).
5. THE MAXIMUM SLOPE OF AN ACCESSIBLE PARKING STALL NOT EXCEED 2% IN ANY DIRECTION.
6. ACCESSIBLE ROUTE DETAILS FOR SIDEWALKS, CROSSWALKS, RAMPS, HANDRAILS, AND HANDICAP PARKING STALLS ARE PROVIDED ON SHEETS C-502.
7. NEITHER THE OWNER NOR THE ENGINEER WILL MAKE EXHAUSTIVE CHECKS OF THE CONTRACTOR'S WORK ON THE ACCESSIBLE ROUTES. RATHER, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT THE ACCESSIBLE ROUTES PER THE PLANS AND DETAILS TO ENSURE COMPLIANCE WITH THE FHA/ADA.
8. AT HIS OWN EXPENSE, THE CONTRACTOR SHALL REMOVE AND REPLACE ANY SECTIONS OF AN ACCESSIBLE ROUTE THAT EXCEED THE MAXIMUM GRADES. THIS SHALL BE STRICTLY ENFORCED.



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CRAFTON, TULL & ASSOCIATES, INC. No. 109

CERTIFICATE OF AUTHORIZATION — ARKANSAS ENGINEER

GRAPHIC SCALE IN FEET
20' 0 20'

PANERA BREAD
BRYANT, AR

Key Plan

No.	Description	Date

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PROJECT NO: 24304000
ISSUE DATE: 01/6/25
CONTACT: T.TOLLEY
QC by:
QC Date:

PRELIMINARY PLANS

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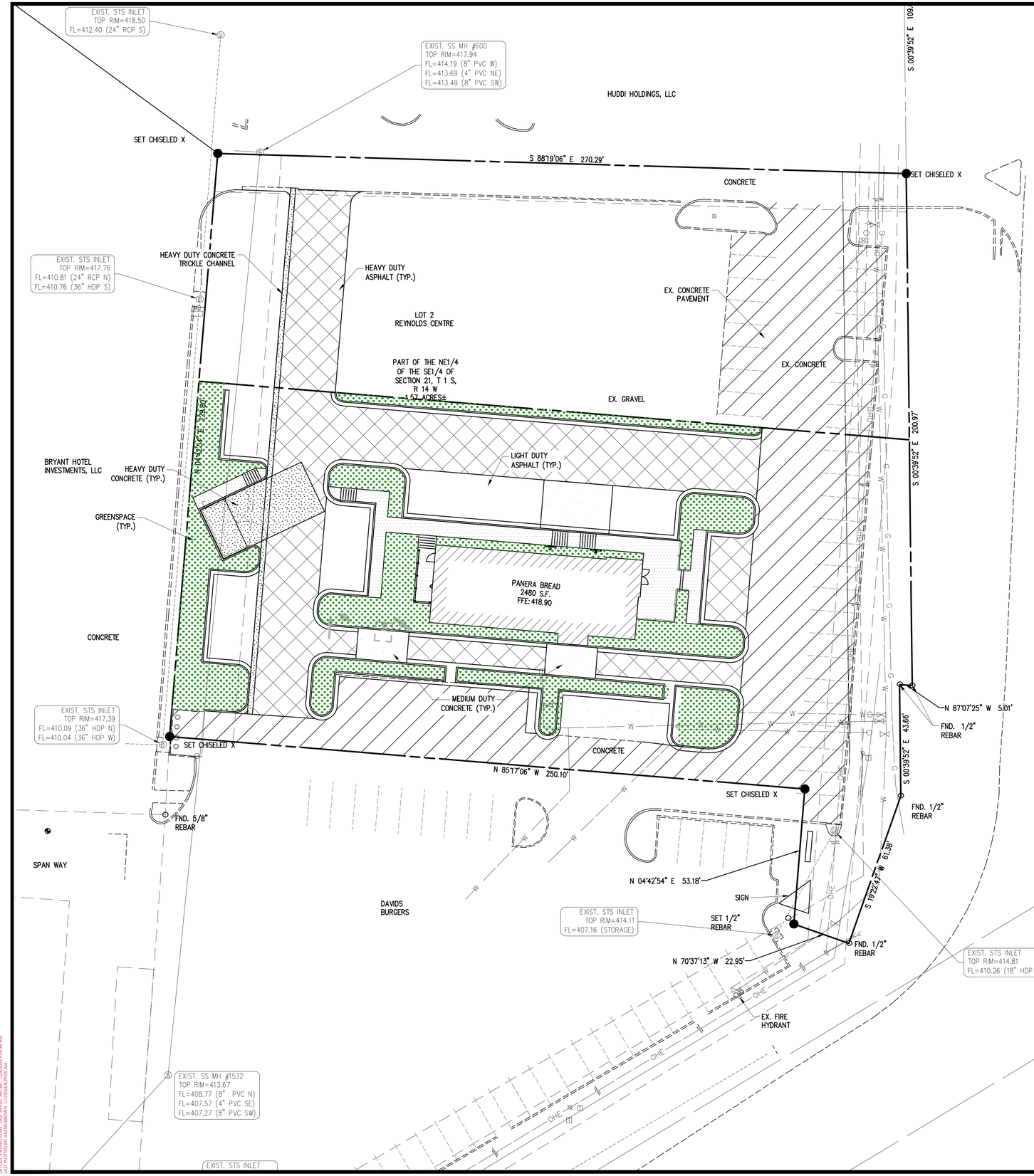
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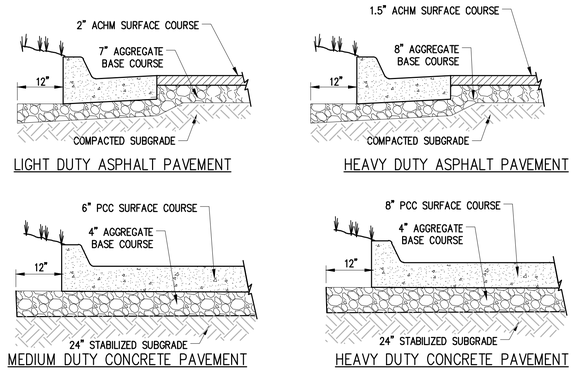
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GRADING PLAN

C-103

DRAWING: J:\24304000 - PANERA\PATCH\PANERA\SHEETS\CIVIL\DWG\GRADING PLAN.DWG
LAST SAVED BY: AUSTIN BROWN, 1/7/2025 8:35:29 AM
LAST PLOTTED BY: AUSTIN BROWN, 1/7/2025 8:35:29 AM





NOTES:

1. THE SUBGRADE UNDER PAVEMENTS SHALL BE PREPARED IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS.
2. AFTER PROOF ROLLING WITH A LOADED TANDEM AXLE DUMP TRUCK AND PREPARING DEEP SUBGRADE DEFICIENCIES, THE ENTIRE SUBGRADE SHOULD BE SCARIFIED TO A DEPTH OF 8" AND UNIFORMLY COMPACTED TO AT LEAST 95% OF MODIFIED PROCTOR.
3. AGGREGATE BASE COURSE MIXTURES SHALL CONFORM WITH THE GRADATION, COMPACTION AND OTHER REQUIREMENTS SHOWN IN THE CONTRACT SPECIFICATIONS OR WITH THE LOCAL STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
4. ASPHALTIC SURFACE AND BINDER COURSES SHALL CONFORM WITH THE GRADATION, COMPACTION AND OTHER REQUIREMENTS SHOWN IN THE CONTRACT SPECIFICATIONS OR WITH THE LOCAL STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
5. PORTLAND CEMENT CONCRETE PAVEMENT SHALL CONFORM WITH THE REQUIREMENTS SHOWN IN THE CONTRACT SPECIFICATIONS OR WITH THE LOCAL STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
6. THE CONTRACTOR SHALL APPLY A TACK COAT TO THE FACE OF THE CONCRETE GUTTER WHERE THE GUTTER CONTACTS ASPHALT.

PAVEMENT SECTIONS

NTS AUG. 25, 2020

LEGEND (EXISTING)

LINEWORK

CURB

RIGHT OF WAY

LEGEND (CONSTRUCT)

LINEWORK

CURB

RIGHT OF WAY

PROPERTY LINE

PAVING LEGEND

- NEW CONCRETE SIDEWALK
- NEW HEAVY DUTY CONCRETE
- NEW MEDIUM DUTY CONCRETE
- NEW HEAVY DUTY ASPHALT
- NEW LIGHT DUTY ASPHALT
- NEW GREEN SPACE
- EX. CONCRETE PAVEMENT TO REMAIN

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GRAPHIC SCALE IN FEET
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PANERA BREAD
BRYANT, AR

Key Plan

No.	Description	Date

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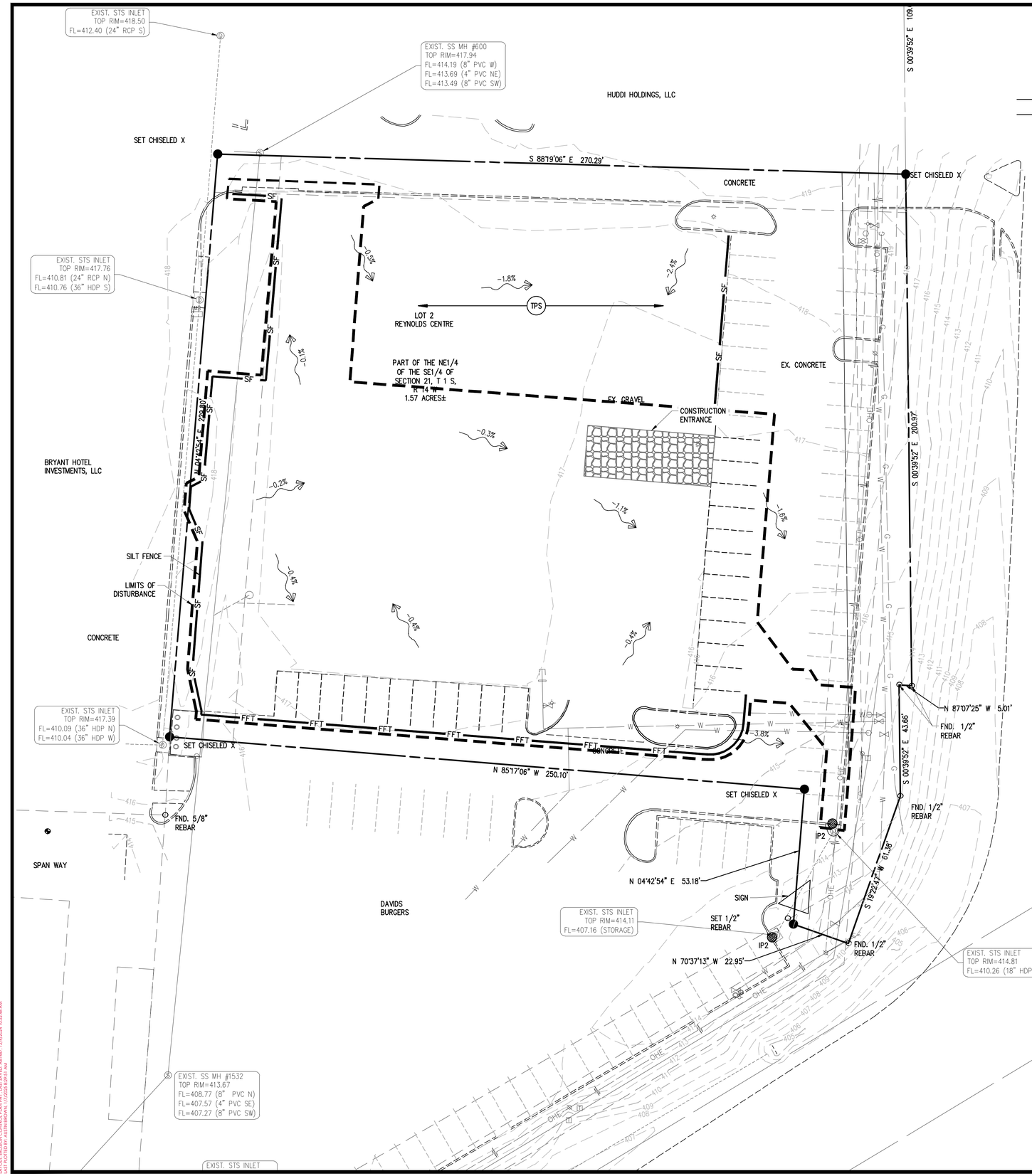
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PAVING PLAN

C-104

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LAST PLOTTED BY: KEITH BROWN, 11/7/2023 8:29:03 AM



EROSION CONTROL LEGEND

- PS — PERMANENT SEEDING
- TPS — TEMPORARY PARKING AND STORAGE
- BOUNDARY LINE
- RIGHT OF WAY LINE
- LIMITS OF DISTURBANCE
- GRADE BREAK
- CONTOUR ELEVATIONS
- STORM DRAIN
- XX.X% — DIRECTION OF OVERLAND FLOW W/ GRADE
- LIMITS OF DRAINAGE SUB-BASIN
- CD — ROCK CHECK DAM
- CE — STABILIZED CONSTRUCTION EXIT (ENTRANCE)
- DD — CHANNELED DIVERSIONS
- DS — DEWATERING SYSTEM / STRUCTURE
- SF — SILT FENCE
- ST — SEDIMENT BASIN WITH STONE OUTLET
- IP1 — BLOCK AND AGGREGATE INLET SEDIMENT DEVICE
- IP2 — CURB INLET FILTER SOCK
- IP3 — GRATED INLET GRAVEL SEDIMENT FILTER
- IP4 — SILT FENCE INLET PROTECTION
- RIP RAP SLOPE PROTECTION (SEE SIZE THIS SHEET)
- ECL — PERMANENT EROSION CONTROL LINING
- SB — TEMPORARY SEDIMENT BASIN
- FFT — FIBER FLOCCULENT TUBE

NOTE: SEE SITE PLAN FOR EXISTING LEGEND SYMBOLS

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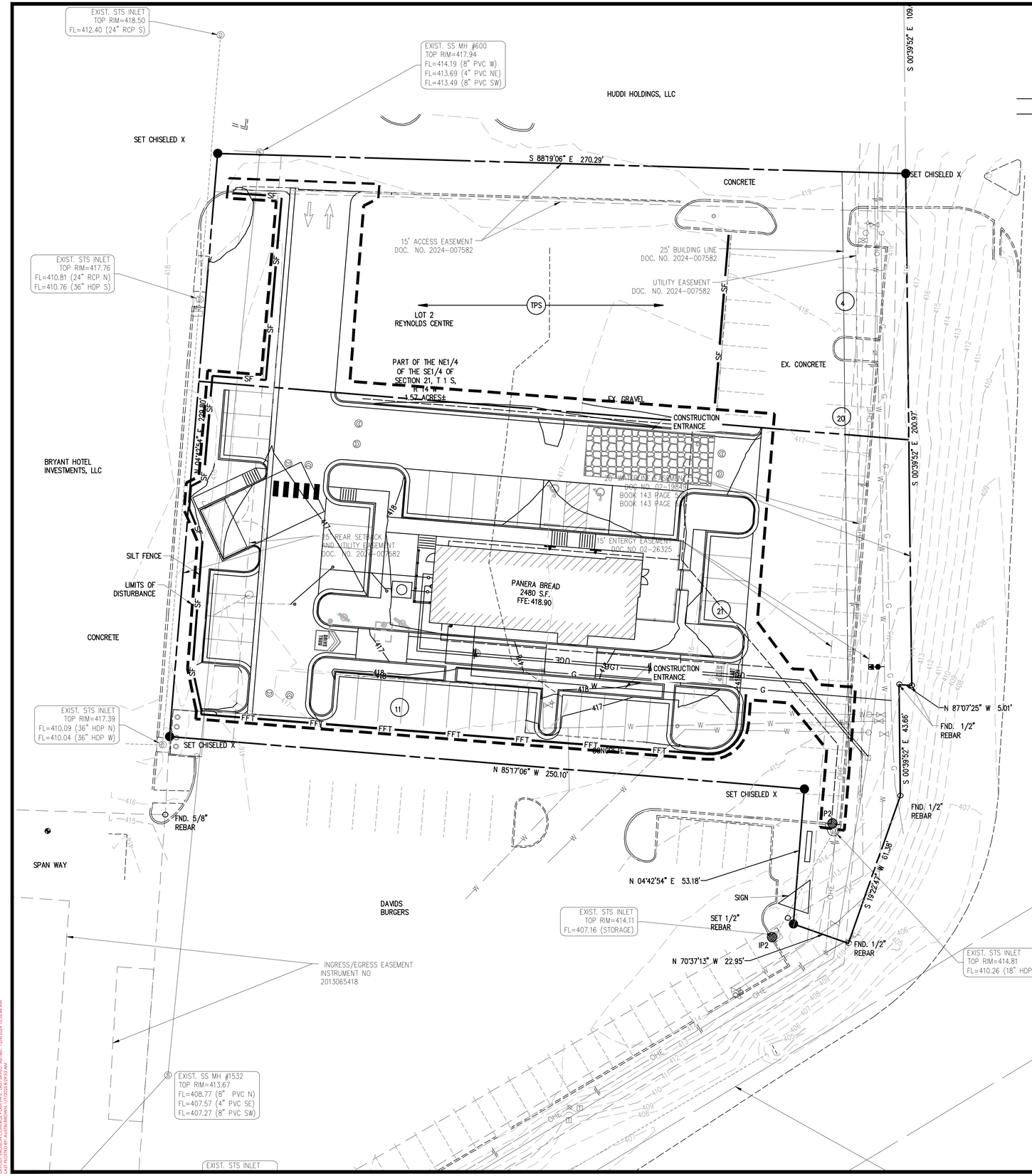
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EROSION CONTROL PH. I

C-105

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LAYOUT: C-105 EROSION CONTROL PH. I | XREF: | PLOTTED: 1/7/2025 9:27:21 AM
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EROSION CONTROL LEGEND

PS	PERMANENT SEEDING	SF	SILT FENCE
TPS	TEMPORARY PARKING AND STORAGE	ST	SEDIMENT BASIN WITH STONE OUTLET
	BOUNDARY LINE	IP1	BLOCK AND AGGREGATE INLET SEDIMENT DEVICE
	RIGHT OF WAY LINE	IP2	CURB INLET FILTER SOCK
	LIMITS OF DISTURBANCE	IP3	GRATED INLET GRAVEL SEDIMENT FILTER
	GRADE BREAK	IP4	SILT FENCE INLET PROTECTION
XXX	CONTOUR ELEVATIONS	OP1	RIP RAP SLOPE PROTECTION (SEE SIZE THIS SHEET)
	STORM DRAIN	ECL	PERMANENT EROSION CONTROL LINING
XX.X%	DIRECTION OF OVERLAND FLOW W/ GRADE	SB	TEMPORARY SEDIMENT BASIN
	LIMITS OF DRAINAGE SUB-BASIN	FFT	FIBER FLOCCULENT TUBE
CD	ROCK CHECK DAM		
CE	STABILIZED CONSTRUCTION EXIT (ENTRANCE)		
DD	CHANNELED DIVERSIONS		
DS	DEWATERING SYSTEM / STRUCTURE		

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PANERA BREAD
BRYANT, AR

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EROSION CONTROL PH. II

C-106

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LAST PLOTTED BY: JUSTIN BROWN, 1772025 3:29:53 AM

PHASE I

1. INSTALL STABILIZED CONSTRUCTION ENTRANCES/EXITS.
2. PREPARE TEMPORARY PARKING AND STORAGE AREAS. UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING: TRAILER, PARKING, LAY DOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASH-OUT, MASON'S AREA, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., DENOTE THEM ON THE SITE MAPS IMMEDIATELY AND NOTE ANY CHANGES IN THE LOCATIONS AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.
3. CONSTRUCT THE SILT FENCES ON THE SITE.
4. CONSTRUCT THE SEDIMENTATION AND SEDIMENT TRAP BASINS.
5. CLEAR AND GRUB THE SITE.
6. START CONSTRUCTION OF THE BUILDING PAD AND STRUCTURES.
7. BEGIN GRADING THE SITE.

PHASE II

1. TEMPORARILY SEED DENUDED AREAS.
2. INSTALL UTILITIES, UNDERDRAINS, STORM SEWERS, CURBS AND GUTTERS.
3. INSTALL RIP-RAP AROUND OUT STRUCTURES.
4. INSTALL INLET PROTECTION AROUND ALL STORM SEWER STRUCTURES.
5. PREPARE SITE FOR PAVING.
6. PAVE SITE.
7. INSTALL INLET PROTECTION DEVICES.
8. COMPLETE GRADING AND INSTALL PERMANENT SEEDING AND PLANTING.
9. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES IF SITE IS STABILIZED.

GENERAL EROSION NOTES:

A. THE STORMWATER POLLUTION PREVENTION PLAN IS COMPRISED OF THIS DRAWING (SITE MAP), THE STANDARD DETAILS, THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN THE SPECIFICATIONS SECTION 312800 (EROSION AND SEDIMENTATION CONTROL), PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.

B. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND THE STATE OF ARKANSAS NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.

C. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST OF OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.

D. BEST MANAGEMENT PRACTICES (BMP) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AND APPLICABLE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER.

E. SITE MAP MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON THE SITE AT ALL TIMES.

F. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.

G. GENERAL CONTRACTOR SHALL DENOTE THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, AND AREA FOR PORTABLE FACILITIES, OFFICE TRAILERS AND TOILET FACILITIES.

H. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE AND EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.

I. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN UP FUEL OR CHEMICAL SPILLS AND LEAKS.

J. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM-BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

K. RUBBISH, TRASH, GARBAGE, LITTER OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM BEING BLOWN OR WASHED OFF-SITE.

L. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN AND SWPPP SHALL BE INITIATED AS SOON AS POSSIBLE.

M. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS STOPPED FOR AT LEAST 14 DAYS SHALL BE TEMPORARY SEEDED.

N. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN.

O. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCE/EXIT IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES EXIT ONTO THE PUBLIC ROADS. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF-SITE.

P. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

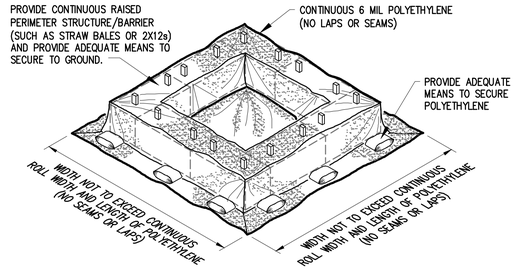
Q. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.

R. ON-SITE AND OFF-SITE STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH THE GENERAL PERMIT.

S. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.

T. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, STRAW BALES, ETC.) TO PREVENT EROSION.

U. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.



CONCRETE WASH-OUT BASIN

NTS

SOIL EROSION/SEDIMENTATION CONTROL OPERATION TIME SCHEDULE

NOTE: GENERAL CONTRACTOR TO COMPLETE TABLE WITH THEIR SPECIFIC PROJECT SCHEDULE

CONSTRUCTION SEQUENCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
ROUGH GRADE / SEDIMENT CONTROL																		
TEMPORARY CONTROL MEASURES																		
STRIP & STOCKPILE TOPSOIL																		
STORM FACILITIES																		
TEMPORARY CONSTRUCTION ROADS																		
FOUNDATION / BUILDING CONSTRUCTION																		
SITE CONSTRUCTION																		
PERMANENT CONTROL STRUCTURES																		
FINISH GRADING																		
LANDSCAPING/SEED/FINAL STABILIZATION																		

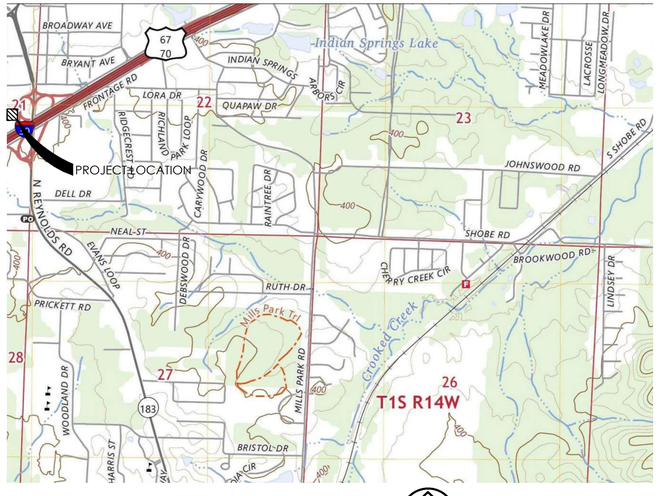
ACREAGE SUMMARY	
IMPERVIOUS AREA	0.6
SEEDED AREA	0.2
TOTAL DISTURBED	0.8

DEVELOPER/OWNER:
TERRA EQUITIES, LLC
2530 WATKINS RD.
BIRMINGHAM, AL 35223

SITE OPERATOR/GENERAL CONTRACTOR:
TBD

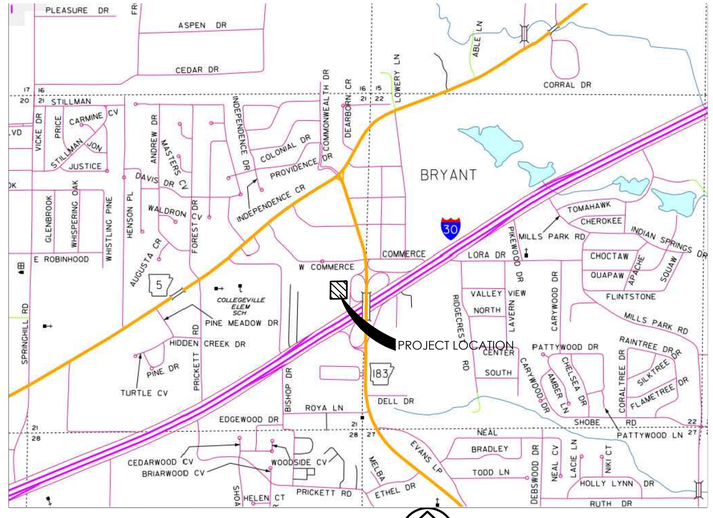
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T.B.M.
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USGS QUADRANGLE MAP

NTS



VICINITY MAP

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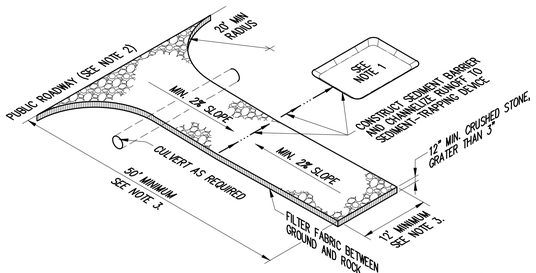
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EROSION CONTROL NOTES

C-107

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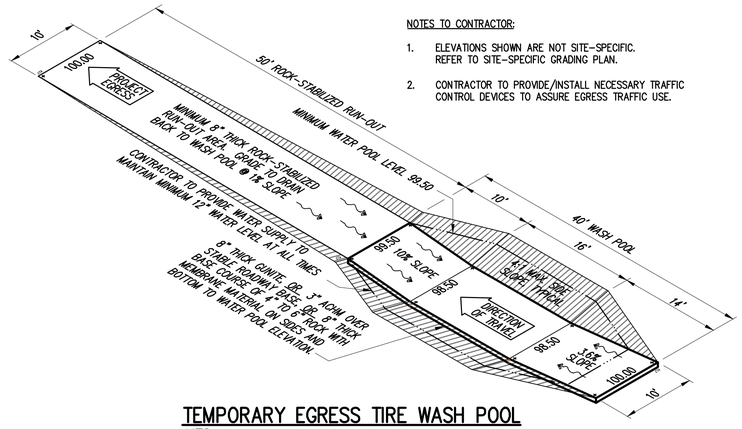


STABILIZED CONSTRUCTION EXIT (ENTRANCE)
NTS

1. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCE/EXIT IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES EXIT ONTO THE PUBLIC ROADS. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF SITE.

2. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

3. LENGTH AND WIDTH TO SUIT SITE, CONSTRUCTION TRAFFIC AND EFFECTIVENESS.

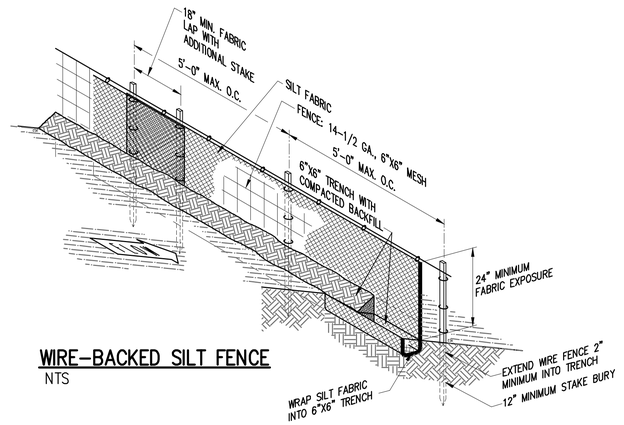


NOTES TO CONTRACTOR:

1. ELEVATIONS SHOWN ARE NOT SITE-SPECIFIC. REFER TO SITE-SPECIFIC GRADING PLAN.

2. CONTRACTOR TO PROVIDE/INSTALL NECESSARY TRAFFIC CONTROL DEVICES TO ASSURE EGRESS TRAFFIC USE.

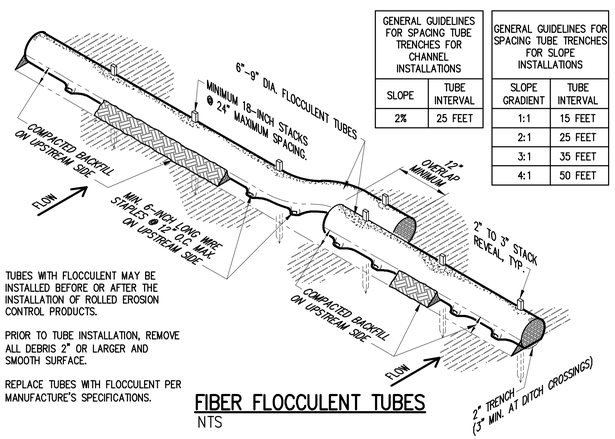
TEMPORARY EGRESS TIRE WASH POOL
NTS



WIRE-BACKED SILT FENCE
NTS

GENERAL GUIDELINES FOR SPACING TUBE TRENCHES FOR CHANNEL INSTALLATIONS	
SLOPE	TUBE INTERVAL
2%	25 FEET

GENERAL GUIDELINES FOR SPACING TUBE TRENCHES FOR SLOPE INSTALLATIONS	
SLOPE GRADIENT	TUBE INTERVAL
1:1	15 FEET
2:1	25 FEET
3:1	35 FEET
4:1	50 FEET

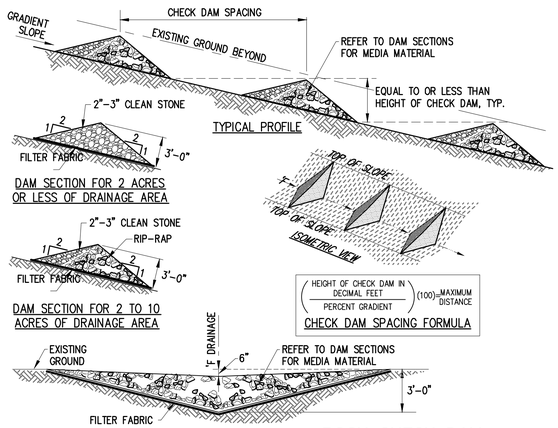


TUBES WITH FLOCCULENT MAY BE INSTALLED BEFORE OR AFTER THE INSTALLATION OF ROLLED EROSION CONTROL PRODUCTS.

PRIOR TO TUBE INSTALLATION, REMOVE ALL DEBRIS 2" OR LARGER AND SMOOTH SURFACE.

REPLACE TUBES WITH FLOCCULENT PER MANUFACTURE'S SPECIFICATIONS.

FIBER FLOCCULENT TUBES
NTS



ROCK CHECK DAM
NTS

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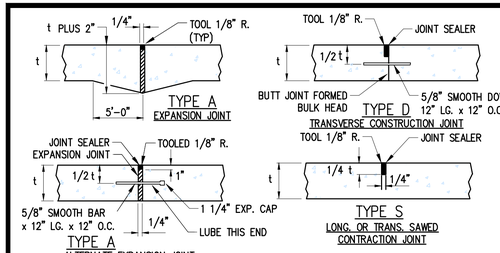
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EROSION CONTROL DETAILS

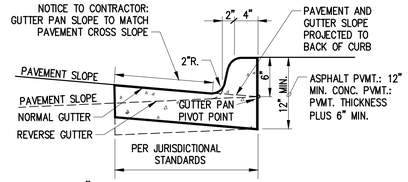
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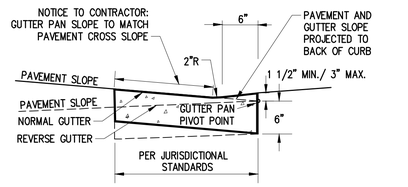


NOTES:
1. ALL JOINTS SPACING NOT TO EXCEED 15'-0" INTERVALS.
2. SAWED JOINTS SHALL BE CUT AS SOON AS POSSIBLE AFTER FINISH WORK IS COMPLETE & CONCRETE HAS CURED TO ACCEPT TYPE OF SAW EQUIPMENT.
3. ASSURE SAW JOINTS ARE CLEAN AND DRY PRIOR TO THE APPLICATION OF THE JOINT SEALANT.
4. SPECIFIED JOINT SEALANT APPLIED IN ACCORDANCE WITH SEALANT MANUFACTURER'S REQUIREMENTS SEALANT TOOLED 1/8" BELOW PAVEMENT SURFACE.
5. DRILLING BY HAND OR PUSHING DOWEL BARS INTO GREEN CONCRETE IS NOT ACCEPTABLE.
6. COMPLETELY FILL HOLE WITH EPOXY GROUT AND INSERT DOWEL WITH EXPANSION CAPS.
7. DOWELS SHALL BE ALIGNED PERPENDICULAR TO THE JOINT.

CONCRETE PAVEMENT JOINTING DETAIL
NTS

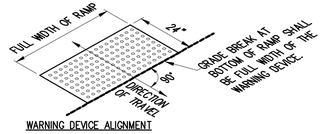


TYPICAL 6" BARRIER CURB AND GUTTER SECTION



TYPICAL MOUNTABLE CURB SECTION AT DRIVEWAYS

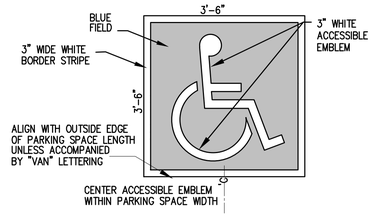
TYPICAL CURB AND GUTTER SECTIONS
NTS



WARNING DEVICE ALIGNMENT

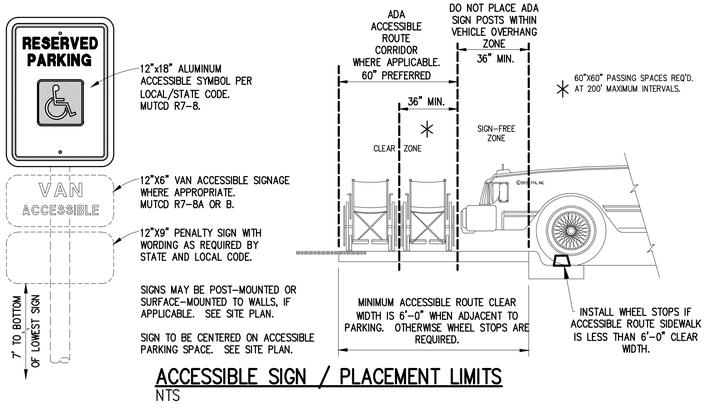
1. DETECTABLE WARNING SURFACES SHALL CONSIST OF TRUNCATED DOMES ALIGNED IN A SQUARE OR RADIAL GRID PATTERN AND SHALL COMPLY WITH ADA 705 GUIDELINES.
2. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT GUTTER, STREET OR HIGHWAY, OR PEDESTRIAN ACCESS ROUTE SURFACE, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT.

DETECTABLE WARNING DEVICE
NTS

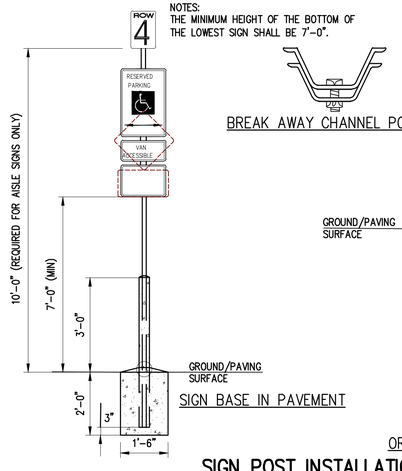


NOTE: LOCAL CODE MAY REQUIRE A WHITE FIELD WITH BLUE EMBLEM OR ANOTHER COLOR ARRANGEMENT.
THE CONTRACTOR SHALL VERIFY THE REQUIRED PAINT COLOR WITH LOCAL OFFICIAL PRIOR TO PAINTING PAVEMENT MARKINGS.

ACCESSIBLE PAVEMENT EMBLEM
NTS



ACCESSIBLE SIGN / PLACEMENT LIMITS
NTS



SIGN POST INSTALLATION
NTS

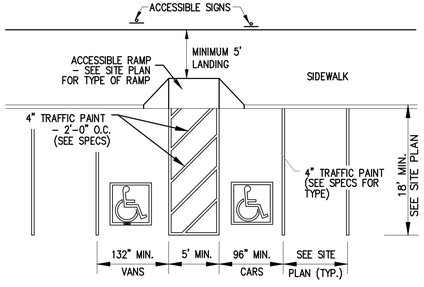
MINIMUM ACCESSIBLE PARKING SPACE REQUIREMENTS

ON-SITE (PRIVATE) ACCESSIBLE PARKING SCHEDULE		
TOTAL NUMBER OF PARKING SPACES REQUIRED PROVIDED (PER LOT)	TOTAL MINIMUM NUMBER OF ACCESSIBLE PARKING SPACES (60" & 96" AISLES) COLUMN "A"	VAN-ACCESSIBLE PARKING SPACES WITH MIN. 96" WIDE ACCESS AISLE
1 TO 25	1	1
26 TO 50	2	1
51 TO 75	3	1
76 TO 100	4	1
101 TO 150	5	1
151 TO 200	6	1
201 TO 300	7	2
301 TO 400	8	2
401 TO 500	9	2
501 TO 1000	2% OF TOTAL PARKING PROVIDED IN EACH LOT	1/6 OF COLUMN "A"
1001 & OVER	20 PLUS 1 FOR EACH 100 OVER 1000	1/6 OF COLUMN "A"

ON-STREET (PUBLIC) ACCESSIBLE PARKING SCHEDULE	
TOTAL NUMBER OF MARKED OR METERED PARKING SPACES ON THE BLOCK PERIMETER	TOTAL REQUIRED NUMBER OF ACCESSIBLE PARKING SPACES
1 TO 25	1
26 TO 50	2
51 TO 75	3
76 TO 100	4
101 TO 150	5
151 TO 200	6
201 AND OVER	4 PERCENT OF TOTAL

CARPORT AND GARAGE PARKING SPACES:
AT LEAST ONE CARPORT OR GARAGE SPACE SHALL BE ADA ACCESSIBLE IF EITHER ARE FEATURED AS SITE AMENITIES.

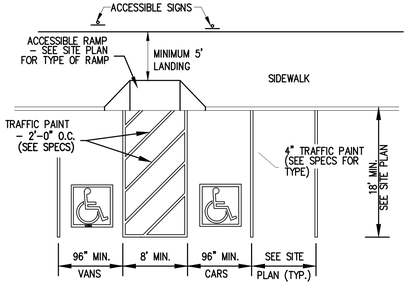
208.2.4 VAN PARKING SPACES:
FOR EVERY SIX OR FRACTIONAL OF SIX PARKING SPACES REQUIRED BY 208.2 TO COMPLY WITH 502, AT LEAST ONE SHALL BE A VAN PARKING SPACE COMPLYING WITH 502.



ALTERNATE "A"

ALL DIMENSIONS ARE TO CENTERLINE OF STRIPE UNLESS OTHERWISE NOTED. COLOR OF ALL ACCESSIBLE TRAFFIC PAINT SHALL BE PER LOCAL CODE (WHITE, YELLOW, ETC.)

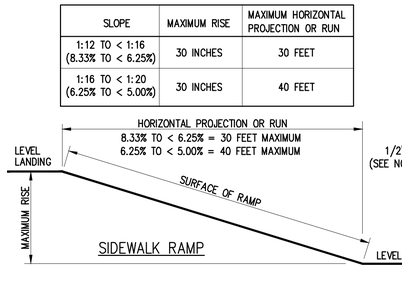
208.2.4 VAN PARKING SPACES:
FOR EVERY SIX OR FRACTIONAL OF SIX PARKING SPACES REQUIRED BY 208.2 TO COMPLY WITH 502, AT LEAST ONE SHALL BE A VAN PARKING SPACE COMPLYING WITH 502.

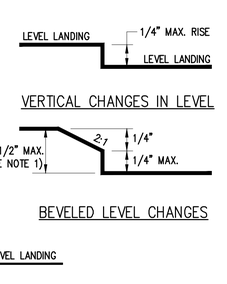


ALTERNATE "B"

VAN ACCESSIBLE PARKING STRIPING
NTS

SLOPE	MAXIMUM RISE	MAXIMUM HORIZONTAL PROJECTION OR RUN
1:12 TO < 1:16 (8.33% TO < 6.25%)	30 INCHES	30 FEET
1:16 TO < 1:20 (6.25% TO < 5.00%)	30 INCHES	40 FEET





NOTES:
1. CHANGES IN LEVEL GREATER THAN 1/2 INCH SHALL BE ACCOMPLISHED BY MEANS OF A RAMP.
2. RAMP RUNS GREATER THAN SIX INCHES OF RISE OR GREATER SIX FEET IN HORIZONTAL PROJECTION SHALL HAVE HANDRAILS ON BOTH SIDES, EXCEPT CURB RAMPS.
3. HANDRAILS SHALL BE 34" TO 38" HIGH AND A MINIMUM OR 36" APART AND MUST EXTEND 12" BEYOND TOP AND BOTTOM OF THE RAMP SEGMENT. SEE HANDRAIL DETAILS.

IN-LINE ACCESSIBLE ROUTE / SIDEWALK RAMP - CHANGES IN LEVEL
NTS

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CERTIFICATE OF AUTHORIZATION
REGISTERED ENGINEERS

PANERA BREAD
BRYANT, AR

Key Plan

No.	Description	Date

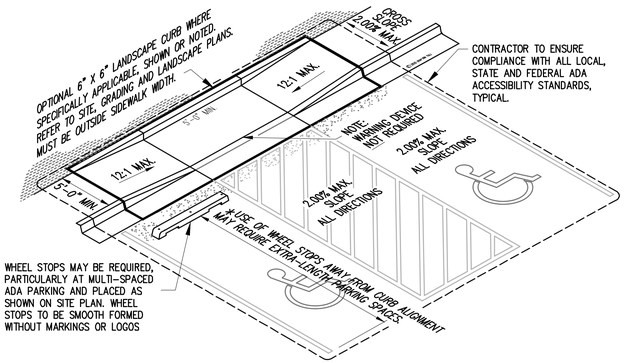
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QC by:
QC Date:
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ADA DETAILS

C-502

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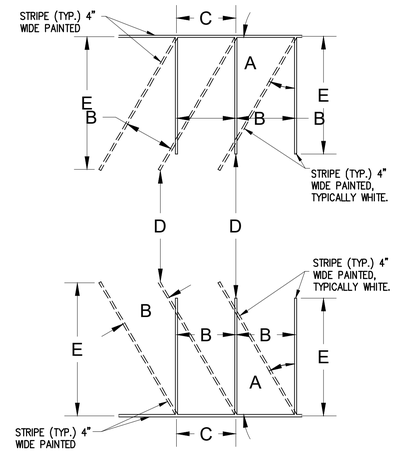


DEPRESSED SIDEWALK AND CURB ACCESSIBLE RAMP
NTS WITH ADA PARKING

STRIPING DIMENSIONS						
ANGLE (A)	TYPE	WIDTH (IN FT.) (B)	CURB LENGTH (IN FT.) (C)	ONE-WAY AISLE WIDTH (IN FT.) (D)	TWO-WAY AISLE WIDTH (IN FT.) (D)	STALL DEPTH (IN FT.) (E)
0°	STANDARD	8	22.5	12	24	8
PARALLEL	COMPACT	7.5	19.5	12	24	7.5
30°	STANDARD	9	18	12	24	17
	COMPACT	7.5	15	12	24	14
45°	STANDARD	9	12.5	12	24	19
	COMPACT	7.5	10.5	12	24	16
60°	STANDARD	9	10.5	18	24	20
	COMPACT	7.5	8.5	15	24	16.5
90°	STANDARD	9	9	24	24	19
	COMPACT	7.5	7.5	22	24	15

NOTES:

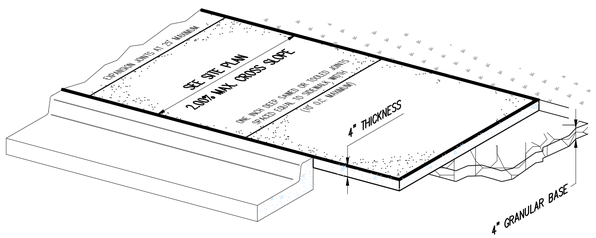
1. LETTERS, NUMBERS AND ARROWS FOR DRIVEWAYS, PARKING LOTS AND STREETS SHALL BE APPLIED ACCORDING TO REQUIREMENTS AS OUTLINED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
2. PAVEMENT MARKINGS ARE TO BE PAINTED REFLECTIVE WHITE. MARKINGS SHALL BE THERMOPLASTIC IF CALLED FOR IN THE PLANS OR SPECIFICATIONS.



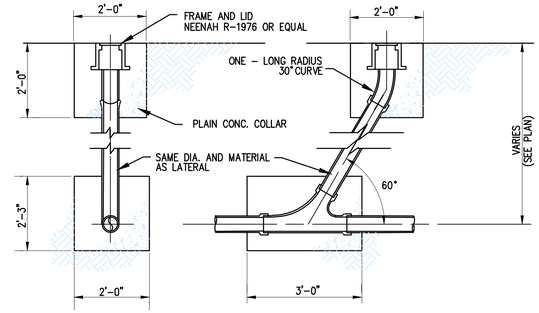
PARKING STRIPES
NTS

* NOTE: DIMENSIONS SHOWN ON PLAN SHALL GOVERN.

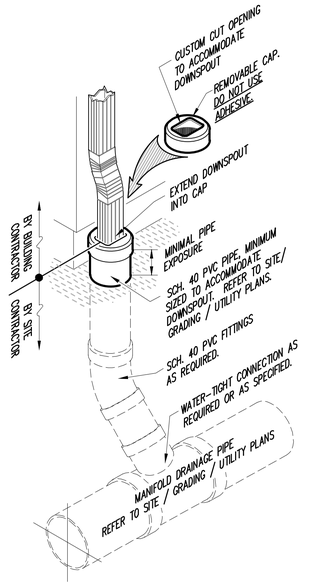
NOTES:
1. PROVIDE 1/2" EXPANSION JOINT BETWEEN SIDEWALK AND ALL FIXED OBJECTS.
2. PROVIDE 1/2" TOOLED RADIUS ON ALL EDGES.
3. CONCRETE TO BE MINIMUM 3500#, AE.



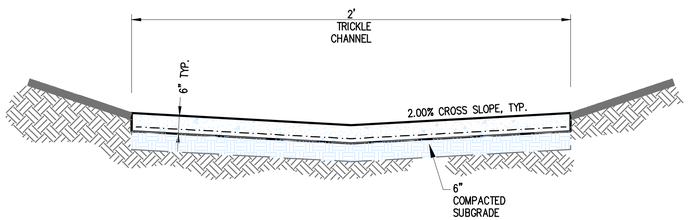
SIDEWALK WITH CURB
NTS



TYPICAL CLEANOUT
NTS

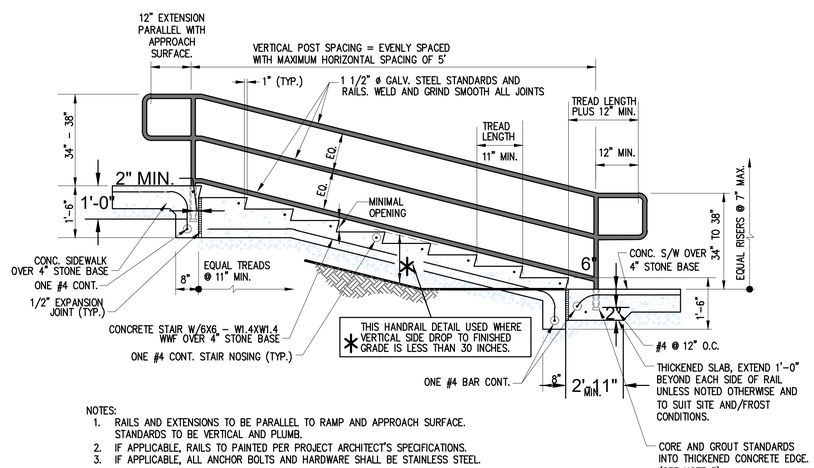


EXTERIOR DOWNSPOUT COLLECTOR
NTS



1. COMPACT SUBGRADE TO 95% MAXIMUM DRY DENSITY AS DETERMINED BY A.S.T.M. D-698 (STANDARD PROCTOR) AT ±2% OF PROCTOR OPTIMUM MOISTURE VALUE.
2. CONCRETE COMPRESSION STRENGTH; 3,500 P.S.I. AT 28 DAYS.
3. REINFORCEMENT: WELDED WIRE FABRIC - 6"X6" - W2.1XW2.1, PLACED 1-1/2" FROM BOTTOM.
4. JOINTS: SAWED LATERAL AT 12' MAXIMUM. LATERAL EXPANSION JOINTS AT 84' MAXIMUM.

TYPICAL CONCRETE CHANNEL SECTION
NTS



NOTES:
1. RAILS AND EXTENSIONS TO BE PARALLEL TO RAMP AND APPROACH SURFACE. STANDARDS TO BE VERTICAL AND PLUMB.
2. IF APPLICABLE, RAILS TO PAINTED PER PROJECT ARCHITECT'S SPECIFICATIONS.
3. IF APPLICABLE, ALL ANCHOR BOLTS AND HARDWARE SHALL BE STAINLESS STEEL.

CONCRETE STAIR AND RAIL WITH NO GRADE DROP AT EITHER SIDE OF STAIR *
NTS NOTE: REFER TO SITE AND GRADING PLANS FOR STAIR LENGTH, RISE AND LOCATION

REVISED 08/25/14

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ARKANSAS ENGINEER

PANERA BREAD
BRYANT, AR

Key Plan

No.	Description	Date

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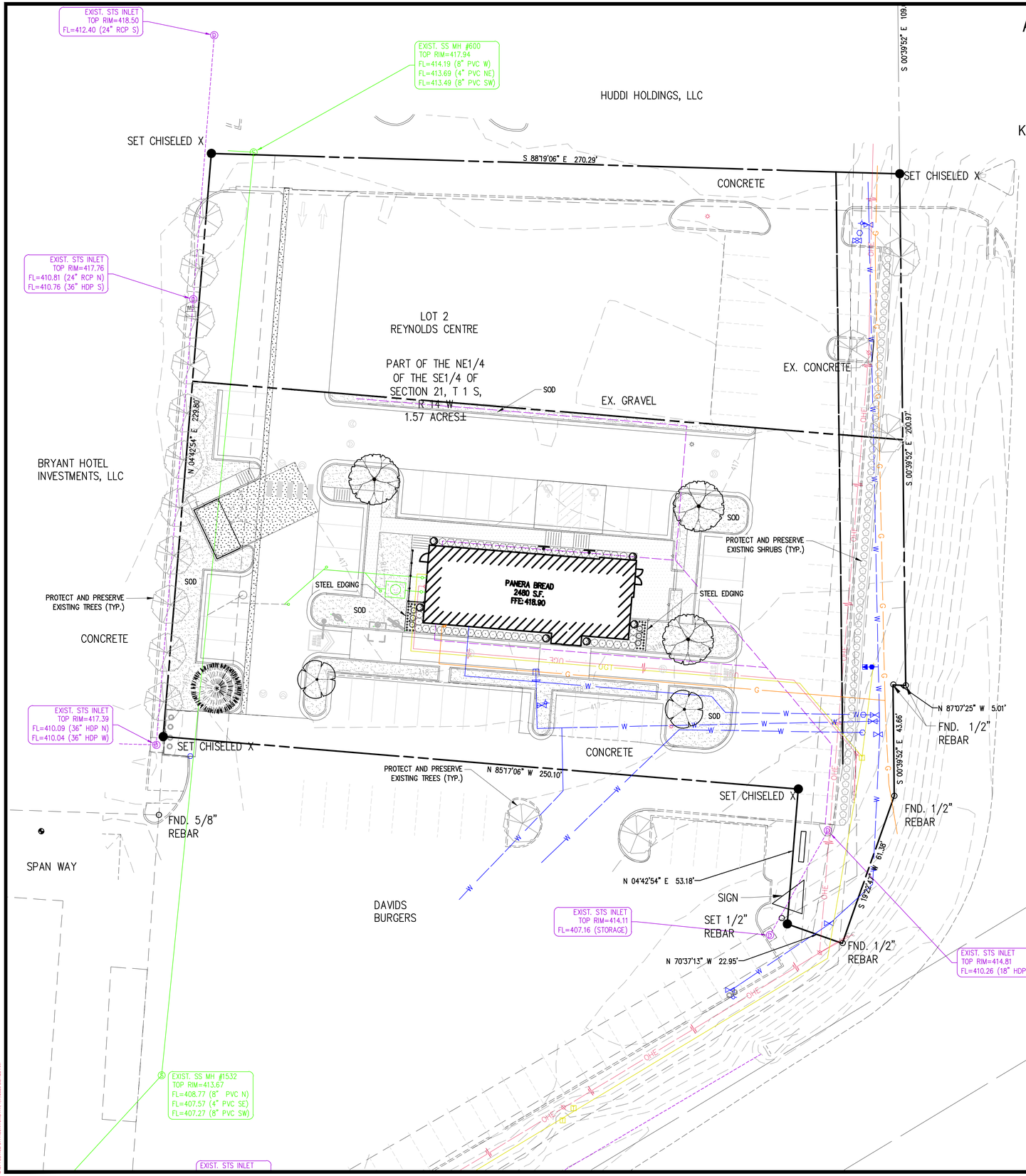
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SITE DETAILS

C-503

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LAYOUT: C-503 DETAILS PLOTTED: 8/25/2025 8:53:53 AM
LAST PLOTTED BY: AUDRA BROWN



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LANDSCAPE NOTES

1. CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL UTILITIES PRIOR TO STARTING ANY WORK BY CONTACTING THE ONE-CALL SYSTEM. ALL UTILITY LOCATIONS SHOWN ON THIS PLAN ARE APPROXIMATE AND ARE BASED ON SURVEY INFORMATION, SITE DEVELOPMENT PLANS, UTILITY RECORDS, ETC.
2. CONTRACTOR SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF WORK. ANY DAMAGES TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCUR AS A RESULT OF LANDSCAPE CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED AT NO COST TO OWNER.
3. ALL PLANT MATERIALS SHALL BE NURSERY GROWN (CONTAINER OR BALLED & BURLAPPED) AND SHALL MEET OR EXCEED THE SIZE AND GRADING REQUIREMENTS ESTABLISHED BY THE LATEST EDITION OF "AMERICAN STANDARDS FOR NURSERY STOCK" PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION.
4. ALL PLANT MATERIALS MUST BE HEALTHY, VIGOROUS, AND FREE OF PESTS AND/OR DISEASE.
5. ALL PLANT MATERIALS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING, AND AFTER CONSTRUCTION.
6. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS PRIOR TO PRICING THE WORK.
7. NOTIFY LANDSCAPE ARCHITECT OR DESIGNATED REPRESENTATIVE OF ANY LAYOUT OR QUANTITY DISCREPANCIES PRIOR TO BEGINNING CONSTRUCTION.
8. NO CHANGES TO THE PLANT SCHEDULE ARE ALLOWED WITHOUT APPROVAL OF THE OWNER, LANDSCAPE ARCHITECT, AND CITY. APPROVED ALTERNATE MATERIALS SHALL MEET THE SAME CRITERIA FOR TYPE, SIZE, AND FUNCTION AS THOSE SHOWN ON LANDSCAPE PLAN.
9. PLANTINGS IN EXCESS OF MINIMUM REQUIREMENTS MAY NOT BE REDUCED ONCE APPROVED BY THE PLANNING COMMISSION.
10. ALL PLANT MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS PROVIDED.
11. ALL LAWN AREAS SHALL RECEIVE 4" OF TOPSOIL TO MEET FINAL GRADE IN ACCORDANCE WITH GRADING PLAN.
12. ALL PLANTING BED AREAS SHALL BE PREPARED BY REMOVING EXISTING SOD AND WEEDS. PLANTING BED AREAS SHALL RECEIVE 6" OF TOPSOIL AMENDED TO ENHANCE FAVORABLE GROWING CONDITIONS. SOIL MIX SHALL BE TILLED INTO BED AREA TO A MINIMUM DEPTH OF 12"
13. PLANTING BEDS SHALL RECEIVE A MINIMUM OF 3" SHREDDED HARDWOOD MULCH. ALL TREES NOT LOCATED IN PLANTING BEDS SHALL RECEIVE A MULCH SAUCER PER DETAIL.
14. CONTRACTOR TO FIELD VERIFY THE LIMITS OF DISTURBANCE. ALL DISTURBED AREAS MUST BE STABILIZED PER CITY CODE PRIOR TO PROJECT CLOSE-OUT.
15. TURF AREAS SHALL BE SODDED PER PLANTING PLAN. REFER TO PLANT SCHEDULE AND LANDSCAPE NOTES FOR SPECIES AND INSTALLATION REQUIREMENTS.
16. ALL SLOPES 3:1 AND GREATER SHALL RECEIVE SOD. ON SLOPES OF 4:1 OR GREATER, SOD SHALL BE STAPLED IN PLACE.
17. ALL ENTRANCE/EXIT PLANTINGS SHALL BE INSTALLED AND MAINTAINED TO PROVIDE CLEAR SIGHT DISTANCE FROM THE STREETS AND ALL SITE ENTRANCES/EXITS PER CITY CODE.
18. IF A LANDSCAPE IRRIGATION SYSTEM IS TO BE CONSTRUCTED, LANDSCAPE CONTRACTOR SHALL CONFIRM LOCATION OF PLANNED IRRIGATION LINE WITH THE IRRIGATION CONTRACTOR PRIOR TO PLANTING BED CONSTRUCTION AND PLANT INSTALLATION.
19. CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING MATERIAL. (INCLUDING BUT NOT LIMITED TO WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) IN ALL PLANTING AREAS AND LAWN AREAS UNTIL THE WORK IS APPROVED AND ACCEPTED IN TOTAL BY OWNER.

UTILITIES AND PLANT MATERIALS

1. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF UTILITIES PRIOR TO LANDSCAPE INSTALLATION AND NOTIFY LANDSCAPE ARCHITECT OF ANY CONFLICTS.
2. TREES AND LANDSCAPING SHALL NOT BE PLACED WHERE THEY INTERFERE WITH SITE DRAINAGE CHANNELS, LINES, OR STRUCTURES, NOR WHERE THEY IMPEDE DETENTION/RETENION FUNCTIONS.
3. TREES WITH A MATURE HEIGHT GREATER THAN 20' SHALL NOT BE PLANTED WITHIN 20' OF OVERHEAD UTILITIES.
4. TREES SHALL NOT BE PLACED WITHIN 5' OF UNDERGROUND UTILITIES.
5. TREES SHALL NOT BE PLACED WITHIN 3' OF ANY ABOVEGROUND ELECTRICAL EQUIPMENT, NOR WITHIN 5' FROM DOORS OF ABOVEGROUND ELECTRIC EQUIPMENT.
6. TREES AND LANDSCAPING THAT OBSCURE VISIBILITY SHALL NOT BE PLACED WITHIN 3' OF A FIRE HYDRANT. ALL OTHER LANDSCAPING MUST BE MAINTAINED TO ENSURE VISIBILITY OF FIRE HYDRANT.
7. CITY RESERVES THE RIGHT TO REMOVE LANDSCAPING THAT BLOCKS ACCESS TO UTILITIES OR FAILS TO MEET THE REQUIREMENTS SET FORTH HEREIN.

MAINTENANCE NOTES

1. CONTRACTOR SHALL PROVIDE A WARRANTY ON ALL PLANT MATERIALS FOR A MINIMUM OF ONE YEAR FROM PROJECT COMPLETION AND ACCEPTANCE BY OWNER. ANY PLANT MATERIAL THAT DIES, TURNS BROWN, OR DEFOLIATES PRIOR TO WARRANTY EXPIRATION SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.
2. AFTER THE REQUIRED WARRANTY PERIOD, LANDSCAPING SHALL BE MAINTAINED IN HEALTHY LIVING CONDITION BY THE OWNER OF THE PROPERTY. ALL PLANTS THAT DIE SHALL BE REPLACED BY THE OWNER OF THE PROPERTY.
3. HEALTHY TREES SHALL NOT BE REMOVED AT ANY TIME.
4. TREES SHALL NOT BE TOPPED AT ANY TIME.
5. WHEN PRUNING IS NECESSARY TO MAINTAIN THE HEALTH OF THE TREE OR FOR PUBLIC SAFETY, PROPER PRUNING TECHNIQUES AS ESTABLISHED BY THE LATEST EDITION OF ANSI A300 "STANDARDS FOR TREE CARE OPERATIONS" SHALL BE UTILIZED.

PLANT SCHEDULE

SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT	CAL	HEIGHT
TREES					
	2	CERCIS CANADENSIS 'FOREST PANSY' / FOREST PANSY EASTERN REDBUD	B & B	2"CAL	8'-10' HT.
	3	QUERCUS SHUMARDII / SHUMARD OAK	B & B	2.5"CAL	10'-12' HT.
	1	TAXODIUM DISTICHUM / BALD CYPRESS	B & B	2.5"CAL	10'-12' HT.
	6	THUJA OCCIDENTALIS 'EMERALD' / EMERALD ARBORVITAE	15 GAL	2"CAL	6'-8' HT.

SYMBOL	QTY	BOTANICAL / COMMON NAME	SIZE	HEIGHT	SPREAD
SHRUBS					
	46	BUXUS MICROPHYLLA 'WINTERGREEN' / BOXWOOD	3 GAL. 18" MIN. HT		
	34	LIRIOPE MUSCARI 'BIG BLUE' / BIG BLUE LILYTURF	2 GAL. 6" HT. MIN		
	6	MUHLENBERGIA CAPILLARIS / PINK MUHLY	5 GAL. 18" HT. MIN.		
	6	ROSA X 'DOUBLE KNOCKOUT' / KNOCKOUT ROSE	5 GAL. 18" HT. MIN.		

SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT
GROUND COVERS			
	5,724 SF	CYNODON DACTYLON / BERMUDA GRASS	SOLID SOD

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GRAPHIC SCALE IN FEET
20' 0 20'

PANERA BREAD
BRYANT, AR

Key Plan

No.	Description	Date

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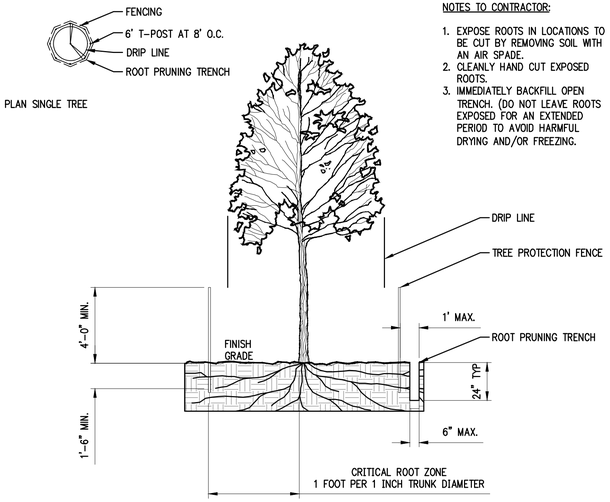
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PLANTING PLAN

L-101

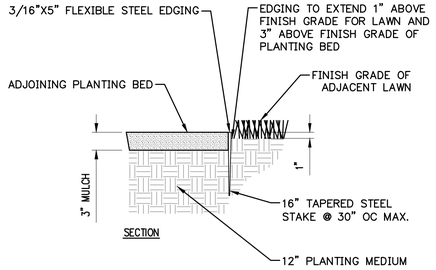
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NOTES TO CONTRACTOR:

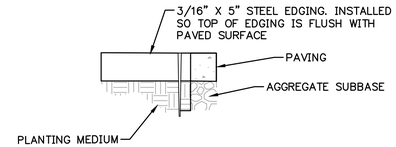
1. EXPOSE ROOTS IN LOCATIONS TO BE CUT BY REMOVING SOIL WITH AN AIR SPADE.
2. CLEANLY HAND CUT EXPOSED ROOTS.
3. IMMEDIATELY BACKFILL OPEN TRENCH. (DO NOT LEAVE ROOTS EXPOSED FOR AN EXTENDED PERIOD TO AVOID HARMFUL DRYING AND/OR FREEZING.

ROOT PRUNING DETAIL
NTS



NOTES TO CONTRACTOR:

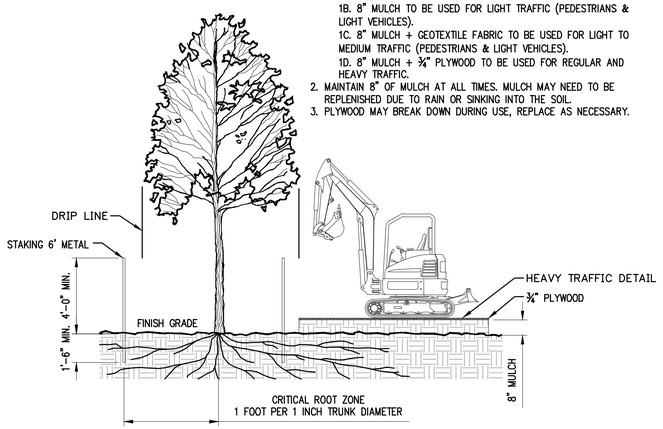
1. AREAS WHERE GROUNDCOVER OR SHRUB MASS PLANTINGS BORDER CURB WILL NOT HAVE EDGING.
2. CHAMFER EDGING TO BE FLUSH WITH FINISHED GRADE OF ADJACENT PAVING OR CURBS.
3. STAKE AS PER MANUFACTURER'S RECOMMENDATIONS.
4. IF EDGING EXTENDS ABOVE PAVING DUE TO SITE CONDITIONS, CHAMFER EDGE ABUTTING PAVEMENT.



STEEL EDGING DETAIL
NTS

NOTES TO CONTRACTOR:

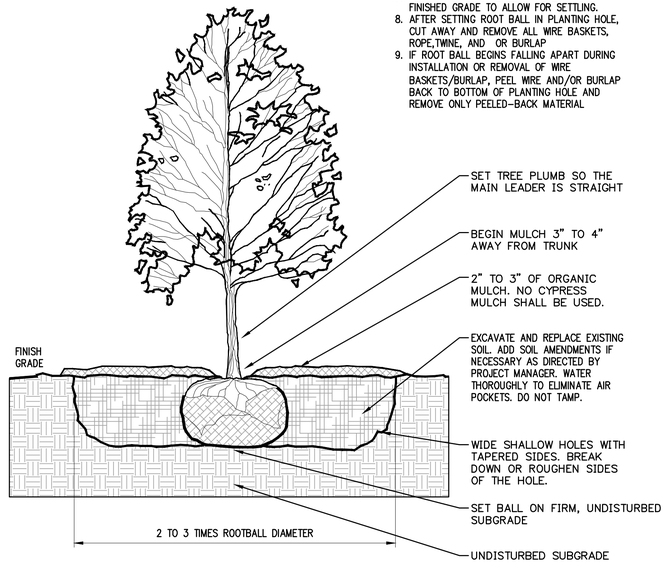
1. TECHNIQUES TO BE SPECIFIED BY URBAN FORESTRY (EXAMPLES 1A–1D).
   1A. ¾" PLYWOOD TO BE USED FOR LIGHT FOOT TRAFFIC AND SINGLE VEHICLE CROSSING.
   1B. 8" MULCH TO BE USED FOR LIGHT TRAFFIC (PEDESTRIANS & LIGHT VEHICLES).
   1C. 8" MULCH + GEOTEXTILE FABRIC TO BE USED FOR LIGHT TO MEDIUM TRAFFIC (PEDESTRIANS & LIGHT VEHICLES).
   1D. 8" MULCH + ¾" PLYWOOD TO BE USED FOR REGULAR AND HEAVY TRAFFIC.
2. MAINTAIN 8" OF MULCH AT ALL TIMES. MULCH MAY NEED TO BE REPLENISHED DUE TO RAIN OR SINKING INTO THE SOIL.
3. PLYWOOD MAY BREAK DOWN DURING USE, REPLACE AS NECESSARY.



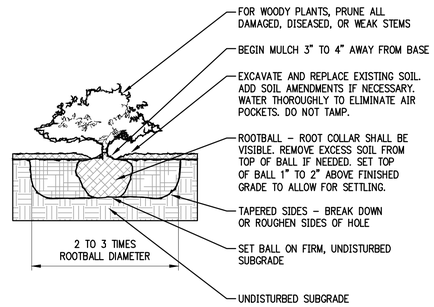
SOIL COMPACTION PREVENTION DETAIL
NTS

NOTES TO CONTRACTOR:

1. TREES SHALL MATCH CALIPER & MIN. HEIGHT SPECIFIED IN PLANT SCHEDULE
2. THE HOLE FOR THE TREE SHALL BE EXCAVATED 2–3 TIMES THE SIZE OF THE ROOT BALL.
3. STAKE ONLY IF NECESSARY AND AS DIRECTED BY THE PROJECT MANAGER.
4. REMOVE ANY TWINE, ROPE, FLAGGING, WRAPPING, OR GUARDS FROM TREE.
5. PRUNE ONLY DEAD/BROKEN BRANCHES OR DOUBLE LEADERS AT TIME OF PLANTING.
6. ROOTBALL COLLAR SHALL BE VISIBLE. REMOVE EXCESS SOIL FROM TOP OF BALL IF NEEDED.
7. SET TOP OF ROOT BALL 1" TO 2" ABOVE FINISHED GRADE TO ALLOW FOR SETTLING.
8. AFTER SETTING ROOT BALL IN PLANTING HOLE, CUT AWAY AND REMOVE ALL WIRE BASKETS, ROPE,TWINE, AND OR BURLAP
9. IF ROOT BALL BEGINS FALLING APART DURING INSTALLATION OR REMOVAL OF WIRE BASKETS/BURLAP, PEEL WIRE AND/OR BURLAP BACK TO BOTTOM OF PLANTING HOLE AND REMOVE ONLY PEELED-BACK MATERIAL



TREE PLANTING DETAIL
NTS



SHRUB PLANTING DETAIL
NTS

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CERTIFICATE OF AUTHORIZATION ARKANSAS ENGINEER

PANERA BREAD
BRYANT, AR

Key Plan

No.	Description	Date

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PROJECT NO: 24304000
ISSUE DATE: 01/6/25
CONTACT: T.TOLLEY
QC By:
QC Date:

PRELIMINARY PLANS

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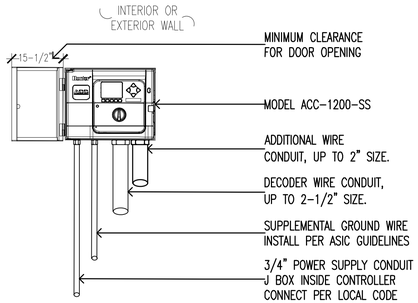
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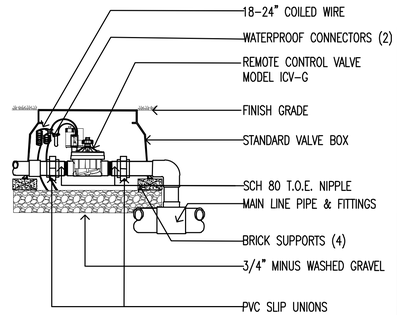
PLANTING DETAILS

L-501

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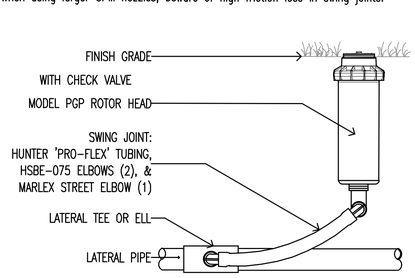


ACC-1200 CONTROLLER
01 WALL MOUNT
SCALE: 1" = 1'-0" Hunter IRRIGATION DETAIL

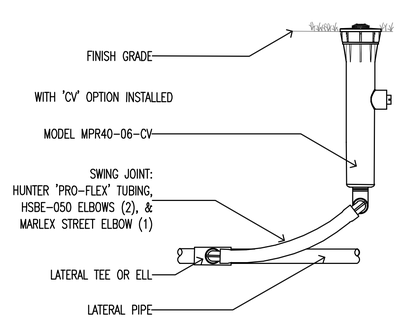


02 ICV GLOBE VALVE
SCALE: 1" = 1'-0" Hunter IRRIGATION DETAIL

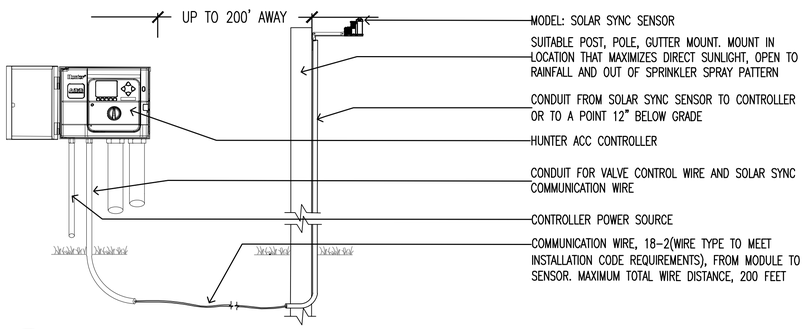
*When using larger GPM nozzles, beware of high friction loss in swing joints.



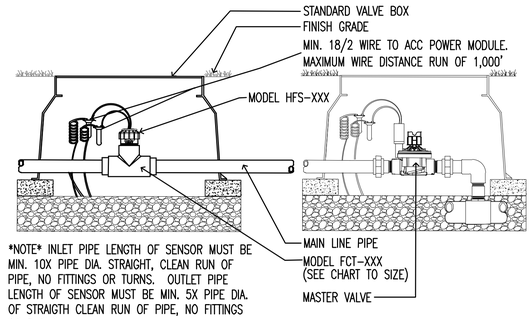
03 PGP ROTOR HEAD
SCALE: 3" = 1'-0" Hunter IRRIGATION DETAIL



MPR40-06-CV
04 MP ROTATOR SPRINKLER
SCALE: 3" = 1'-0" Hunter IRRIGATION DETAIL



07 SOLAR SYNC SYSTEM
SCALE: 1" = 1'-0" Hunter IRRIGATION DETAIL



NOTE INLET PIPE LENGTH OF SENSOR MUST BE MIN. 10X PIPE DIA. STRAIGHT, CLEAN RUN OF PIPE, NO FITTINGS OR TURNS. OUTLET PIPE LENGTH OF SENSOR MUST BE MIN. 5X PIPE DIA. OF STRAIGTH CLEAN RUN OF PIPE, NO FITTINGS OR TURNS.

FCT FITTING SELECTION

FCT100	1 INCH	SCH. 40
FCT150	1.5 INCH	SCH. 40
FCT158	1.5 INCH	SCH. 80
FCT200	2 INCH	SCH. 40
FCT208	2 INCH	SCH. 80
FCT300	3 INCH	SCH. 40
FCT308	3 INCH	SCH. 80
FCT400	4 INCH	SCH. 40

08 HFS FLOW SENSOR
SCALE: 1.5" = 1'-0" Hunter IRRIGATION DETAIL

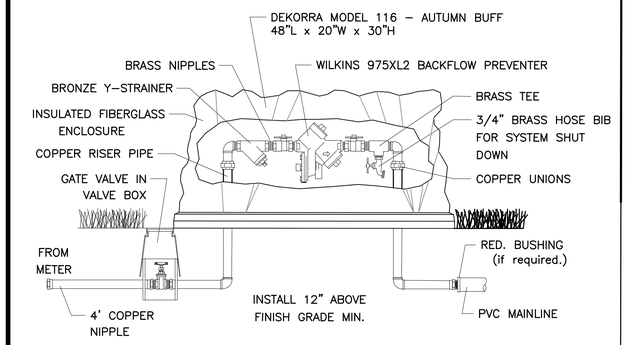
IRRIGATION NOTES

1. CONTRACTOR SHALL CAREFULLY VERIFY A MINIMUM DYNAMIC WATER PRESSURE OF 85psi WITH A FLOW RATE OF 75gpm AT THE WATER METER LOCATION PRIOR TO INSTALLATION. CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IF WATER PRESSURE IS LESS THAN OR SIGNIFICANTLY HIGHER THAN NOTED.
2. PLEASE NOTE: IF PRESSURE IS NOT SATISFACTORY THERE MAY BE A NEED FOR A BOOSTER PUMP TO ENHANCE PERFORMANCE OF THE SYSTEM. THE LANDSCAPE CONTRACTOR SHALL REPORT PRESSURE FINDINGS TO THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF THE SYSTEM FOR DETERMINATION OF ANY BOOSTER NEEDS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL UTILITIES DURING THE INSTALLATION. CONTRACTOR SHALL SEEK ASSISTANCE FROM THE LOCAL UTILITIES IN THE LOCATION OF THE UTILITIES PRIOR TO EXCAVATION.
4. CONTRACTOR SHALL OBTAIN ANY REQUIRED PERMITS, ADHERE TO ALL MUNICIPAL CODES AND FOLLOW STANDARD AND ACCEPTED LOCAL PRACTICES.
5. A DRAIN VALVE SHALL BE INSTALLED AT THE LOWEST PORTION OF EACH ZONE AND AT 100' INTERVALS ON THE MAINLINE FOR WINTERIZATION.
6. VALVE WIRING SHALL BE 12 GAUGE SINGLE STRAND COPPER DIRECT BURIAL DECODER SYSTEM IRRIGATION WIRE. PROVIDE ALL SPLICES SHALL BE WATERPROOF AND PLACED AT VALVE LOCATIONS ONLY.
7. ALL LATERAL LINE PIPING SHALL BE CLASS 200 SDR 21 PVC. ALL MAINLINE PIPING SHALL BE SCHEDULE 40 PVC. ALL FITTINGS SHALL BE SCH. 40 TYPE 1. USE A PVC SOLVENT AND PRIMER AS RECOMMENDED/APPROVED BY THE PIPE MANUFACTURER. ALL MATERIAL AND EQUIPMENT SHALL BE OF DOMESTIC MANUFACTURER PROCEEDING WITH RELATED WORK.
8. PLACE ALL PIPING ON THE PERIMETER OF LANDSCAPE AREAS WHERE POSSIBLE. PLACE VALVES IN PLANTING AREAS WHERE POSSIBLE. LIMIT TRENCHING AROUND EXISTING TREES AS MUCH AS POSSIBLE. BE AWARE OF THE LOCATION OF NEW TREES AND SHRUBS AND PLACE PIPING AWAY FROM THE ROOT BALLS.
9. THERE SHALL BE A CLOSED LOOP MAINLINE AROUND THE PERIMETER OF THE PROPERTY TO AID IN BALANCE OF FLOWS AND PRESSURE, AND ALLOW FOR FUTURE EXPANSION OF THE SYSTEM..
10. PROVIDE FOR WINTERIZATION BY THE BLOW OUT METHOD.
11. COORDINATE LOCATION OF THE CONTROL BOX AND RAIN SENSOR WITH THE OWNER.
12. PROVIDE 100% COVERAGE FOR ALL LANDSCAPE AREAS AND MAKE FINAL ADJUSTMENTS TO OBTAIN OPTIMAL PERFORMANCE. ALL PLANT BEDS SHALL BE DRIP IRRIGATION PLACED ON SEPARATE ZONES FROM THE TURF AREAS.
13. CONTRACTOR TO PROVIDE SERVICE TAPS, LINES AND METER FOR IRRIGATION SYSTEM SERVICE
14. COMPACT BACK FILL IN ALL TRENCHES TO STANDARD SUB GRADE COMPACTION REQUIREMENTS GIVEN IN SITE GRADING SPECIFICATIONS.
15. CONTRACTOR IS RESPONSIBLE FOR SIZING ALL WIRING TO CONTROL VALVES. DIRECT BURIAL QUALITY WIRE WITH SEALED WATERPROOF CONNECTORS REQUIRED.
16. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS DETAILS AND SPECIFICATIONS.
17. WHEN TRENCHING UNDER THE DRIPLINE OF EXISTING TREES EXTREME CARE MUST BE GIVEN TO AVOID ROOT DAMAGE. IF AT ALL POSSIBLE AVOID TRENCHING INSIDE THE DRIPLINE BY GOING AROUND THE TREE RATHER THAN UNDER IT. IF TRENCHING MUST OCCUR UNDER THE DRIPLINE, USE EITHER TUNNELING OR HAND-DIGGING METHODS RATHER THAN A MECHANICAL TRENCHER. MINIMIZE THE IMPACTS OF ROOT SEVERING BY AVOIDING CONSTRUCTION DURING HOT, DRY WEATHER, KEEPING TREES WELL WATERED BEFORE AND AFTER DIGGING AND COVERING ROOTS WITH SOIL OR MULCH AS SOON AS POSSIBLE.

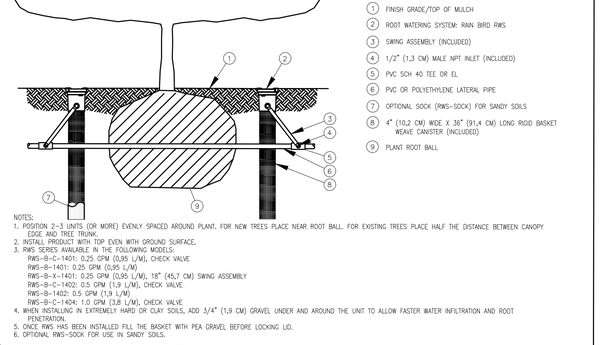
USE EQUIPMENT SPECIFIED AND STANDARDS SHOWN IN THE IRRIGATION DETAILS OF THIS SET

*** TREE WATERING NOTE ***:

1. CONTRACTOR SHALL PLUMB THE RAIN BIRD-RWS-B-C-SOCK 1401 INTO ZONES ACCORDING TO THE FLOWS AND PRESSURES ALLOWED. THESE ZONES SHALL BE ON SEPARATE CONTROL CIRCUITS TO PROVIDE AN ALTERNATE WATERING SOURCE FOR THE TREES DURING ESTABLISHMENT.



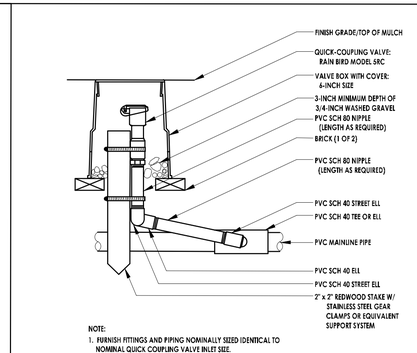
09 WILKINS 975XL2 BACKFLOW PREVENTER
NOT TO SCALE REDUCED PRESSURE PRINCIPLE ASSEMBLY WITH DEKORRA COVER



NOTES:
1. POSITION 2–3 UNITS (OR MORE) EVENLY SPACED AROUND PLANT. FOR NEW TREES PLACE NEAR ROOT BALL. FOR EXISTING TREES PLACE HALF THE DISTANCE BETWEEN CANOPY EDGE AND TREE TRUNK.
2. INSTALL PRODUCT WITH TOP EVEN WITH GROUND SURFACE.
3. RWS SERIES AVAILABLE IN THE FOLLOWING MODELS:
   RWS-B-C-1401: 0.25 GPM (0,95 L/M), CHECK VALVE
   RWS-B-1401: 0.25 GPM (0,95 L/M)
   RWS-B-X-1401: 0.25 GPM (0,95 L/M), 18" (45,7 CM) SWING ASSEMBLY
   RWS-B-C-1402: 0.5 GPM (1,9 L/M), CHECK VALVE
   RWS-B-1402: 0.5 GPM (1,9 L/M)
   RWS-B-C-1404: 1.0 GPM (3,8 L/M), CHECK VALVE
4. WHEN INSTALLING IN EXTREMELY HARD OR CLAY SOILS, ADD 3/4" (1,9 CM) GRAVEL UNDER AND AROUND THE UNIT TO ALLOW FASTER WATER INFILTRATION AND ROOT PENETRATION.
5. ONCE RWS HAS BEEN INSTALLED FILL THE BASKET WITH PEA GRAVEL BEFORE LOCKING LID.
6. OPTIONAL RWS-SOCK FOR USE IN SANDY SOILS.

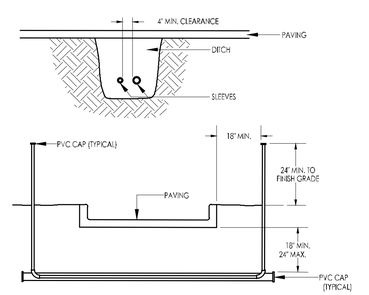
10 ROOT WATERING SYSTEM RWS
N.T.S. INSTALLATION FOR TREES
07-19-2013

PLANTING PLAN



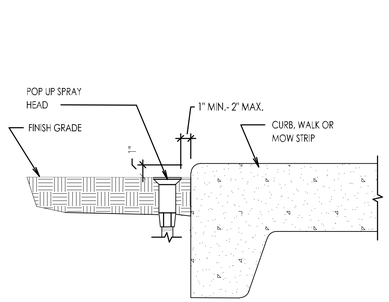
NOTE:
1. FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.
2. PROVIDE (2) 55-K-1 KEYS AND (1) 5H-1 SWIVEL PER QUICK COUPLING VALVE

11 QUICK-COUPLING VALVE

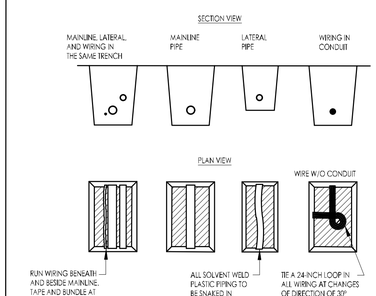


NOTES:
1. ALL PVC IRRIGATION SLEEVES TO BE SCHEDULE 40 PIPE.
2. ALL JOINTS TO BE SOLVENT WELDED AND WATERTIGHT.
3. WHERE THERE IS MORE THAN ONE SLEEVE, EXTEND THE SMALLER SLEEVE TO 24-INCHES MINIMUM ABOVE FINISH GRADE.

12 SLEEVING

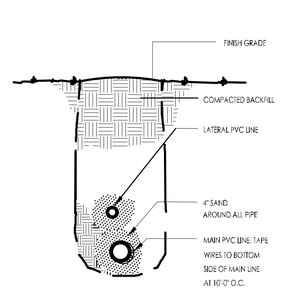


13 SPRAY HEAD NEXT TO CURB OR WALL



NOTES:
1. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH CLASS 200 PVC TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN.
2. FOR PIPE AND WIRE BURIAL DEPTHS SEE SPECIFICATIONS.

14 PIPE & WIRE TRENCHING



15 TRENCH SECTION

10825 Financial Centre Parkway, Suite 300
Little Rock, Arkansas 72211
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501.664.3245 t 501.664.6704 f
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CERTIFICATE OF AUTHORIZATION — CRAFTON, TULL & ASSOCIATES, INC. No. 109 — ARKANSAS ENGINEER

PANERA BREAD
BRYANT, AR

Key Plan

No.	Description	Date

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PROJECT NO: 24304000
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CONTACT: T.TOLLEY
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PRELIMINARY PLANS

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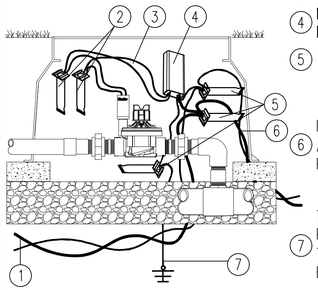
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IRRIGATION DETAILS SHT. 1

LI-501

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NOTE: All ICD 100 DECODERS SHALL HAVE THE FOLLOWING ADDRESS AND CORRESPONDING COLOR
ADDRESS 1 = Black

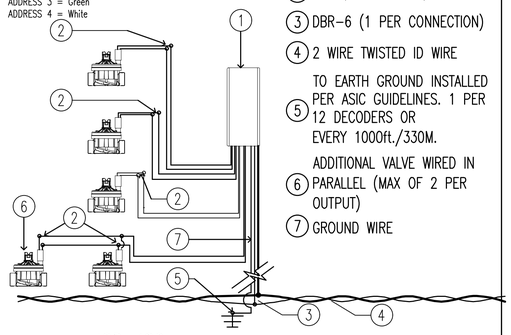


1. ID WIRE PATH TWISTED TO NEXT DECODER
2. DBY (2)
3. TWO BLACK WIRES TO VALVE SOLENOID
4. MODEL ICD-100 DECODER
5. DBR-6 (3)
6. ID WIRE PATH FROM CONTROLLER ALLOW 5 ft/1.5M SLACK PER DECODER
7. TO EARTH GROUND INSTALLED PER ASIC GUIDELINES. 1 PER 12 DECODERS OR EVERY 1000ft./330M.

01 ICD 100 DECODER

SCALE: 1.5" = 1'-0" Hunter IRRIGATION DETAIL

NOTE: All ICD 400 DECODERS SHALL HAVE THE FOLLOWING ADDRESS AND CORRESPONDING COLOR
ADDRESS 1 = Black
ADDRESS 2 = Yellow
ADDRESS 3 = Green
ADDRESS 4 = White

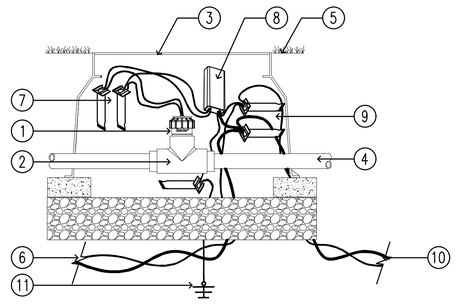


1. ICD-400 DECODER
2. DBY (2 PER VALVE)
3. DBR-6 (1 PER CONNECTION)
4. 2 WIRE TWISTED ID WIRE
5. TO EARTH GROUND INSTALLED PER ASIC GUIDELINES. 1 PER 12 DECODERS OR EVERY 1000ft./330M.
6. ADDITIONAL VALVE WIRED IN PARALLEL (MAX OF 2 PER OUTPUT)
7. GROUND WIRE

ICD 400

02 DECODER SCHEMATIC

SCALE: 3" = 1'-0" Hunter IRRIGATION DETAIL



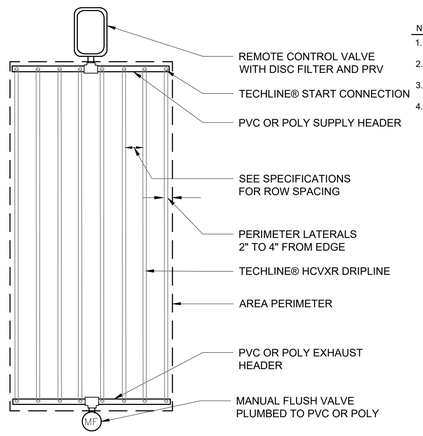
NOTE
1.) REFER TO THE FLOW SENSOR DETAIL FOR CORRECT INSTALLATION.
2.) ALL WIRE SHALL BE 12 OR 14 AWG TWISTED ID-WIRE FROM HUNTER INDUSTRIES..

1. MODEL HFS-XXX. SEE FLOW SENSOR DETAIL.
2. MODEL FCT-XXX. SEE FLOW SENSOR DETAIL.
3. STANDARD VALVE BOX
4. MAIN LINE PIPE
5. FINISHED GRADE
6. ID WIRE PATH TO NEXT DECODER AS NEEDED
7. DBY (2)
8. MODEL ICD-SEN - SENSOR DECODER
9. DBR-6 (3)
10. ID WIRE PATH FROM CONTROLLER ALLOW 5 ft/1.5M SLACK PER DECODER
11. TO EARTH GROUND INSTALLED PER ASIC GUIDELINES. 1 PER 12 DECODERS OR EVERY 1000ft./330M.

03 SENSOR DECODER DETAIL

SCALE: 1.5" = 1'-0" Hunter IRRIGATION DETAIL

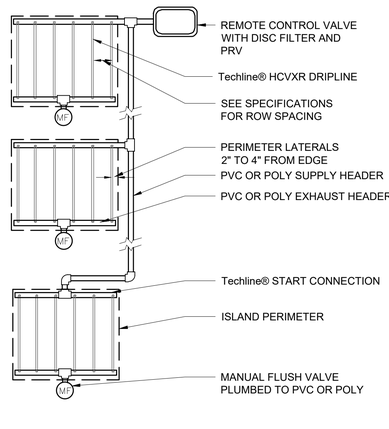
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NOTE:
1. RECOMMENDED MINIMUM FILTRATION: 120 MESH
2. PRESSURE AT FLUSH VALVE SHALL BE MIN 21.8 PSI
3. HIGH CHECK VALVE (MAX 8.5' OF WATER (ELEVATION CHANGE))
4. REFER TO MAXIMUM LENGTH OF A SINGLE LATERAL CHART

04 Techline® HCVXR END FEED LAYOUT

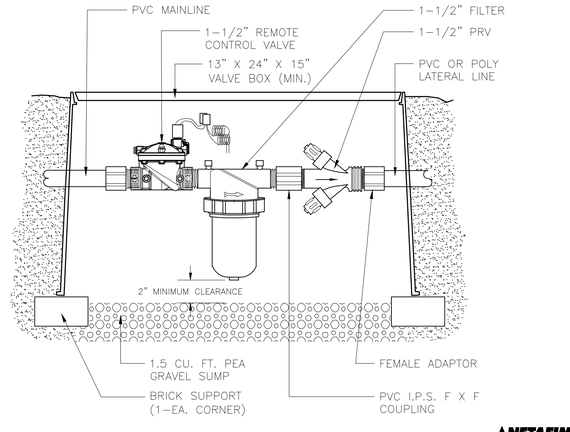
NOT TO SCALE — DETAIL – H101



NOTE:
1. RECOMMENDED MINIMUM FILTRATION: 120 MESH
2. PRESSURE AT FLUSH VALVE SHALL BE MIN 21.8 PSI
3. HIGH CHECK VALVE (MAX 8.5' OF WATER (ELEVATION CHANGE))
4. REFER TO MAXIMUM LENGTH OF A SINGLE LATERAL CHART

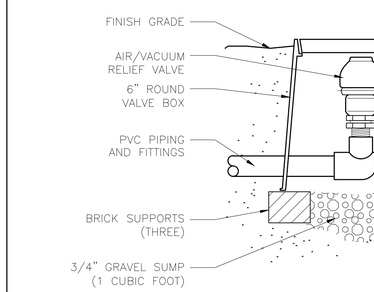
05 Techline® HCVXR ISLAND LAYOUT

NOT TO SCALE — DETAIL – H103



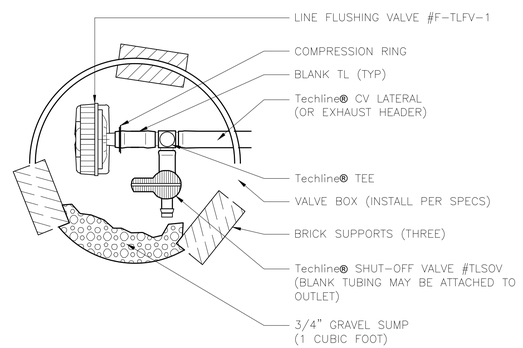
06 COMMERCIAL CONTROL ZONE ASSEMBLY: P/N LVCZ-150 11 - 35 GPM

NOT TO SCALE — DETAIL – L223



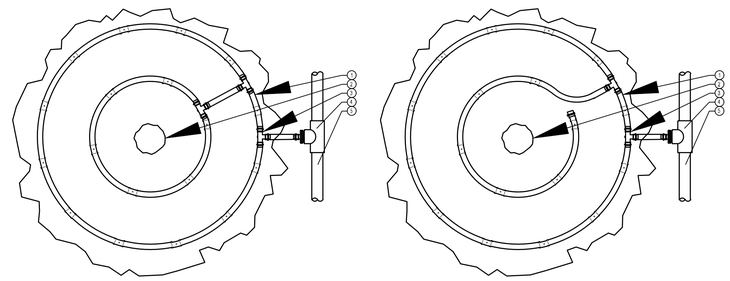
07 GUARDIAN 1" AIR/VACUUM RELIEF VALVE (PLUMBED TO PVC)

NOT TO SCALE — DETAIL – D281



08 Techline® LINE FLUSHING VALVE WITH SHUT-OFF VALVE

NOT TO SCALE — DETAIL – D121



LEGEND:
1. PROFESSIONAL LANDSCAPE DRIPLINE PER PLAN
2. TREE (SEE PLANTING PLAN)
3. ELBOW OR PLUG FITTING TYP.
4. PVC TO DRIP LINE TUBING CONNECTION (TYP.)
5. PVC LATERAL LINE

NOTES
AIR RELIEF VALVE INSTALLED IN VALVE BOX AT OPTIMAL HIGHEST POINT FROM CONTROL ZONE KIT MULTIPLE AIR RELIEF VALVES MAY BE NEEDED TO ACCOMMODATE DIFFERENCES IN GRADE.

ECOINDICATOR TO BE INSTALLED AT OPTIMAL FURTHEST POINT FROM CONTROL ZONE KIT IN CLEAR VIEW WHEN POPPED UP.

FLUSH POINT TO BE INSTALLED AT OPTIMAL FURTHEST POINT FROM CONTROL ZONE KIT TO ALLOW FOR MAXIMUM DEBRIS FLUSH IN SYSTEM.

09 LANDSCAPE DRIPLINE – TREE RING LARGE SPECIMEN

SCALE: NOT TO SCALE

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PANERA BREAD
BRYANT, AR

Key Plan

No.	Description	Date

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PROJECT NO: 24304000
ISSUE DATE: 01/6/25
CONTACT: T.TOLLEY
QC by:
QC Date:
PRELIMINARY PLANS

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IRRIGATION DETAILS SHT. 2

LI-502

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