WENDY'S 2018 CIVIL /SITE PROTOTYPE

4204 E. JOHNSON AVE. JONESBORO, AR 72401

UTILITY RESPONSIBILITIES

1. REVIEW DOCUMENTS AND VERIFY DIMENSIONS AND FIELD CONDITIONS AND CONFIRM THAT WORK IS CONSTRUCTIBLE AS SHOWN. CONFLICTS OR DIMENSIONS, ETC. SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER FOR CLARIFICATION PRIOR TO THE PERFORMANCE OF WORK IN QUESTION.
2. CONTRACTOR IS REQUIRED TO SCHEDULE A PRE–CONSTRUCTION MEETING WITH THE OWNER'S REPRESENTATIVE TO REVIEW SPECIFIC REQUIREMENTS. CONTRACTOR IS RESPONSIBLE TO FOLLOW ALL LOCAL RULES AND REGULATIONS.
3. KEEP THE APPROVED AND/OR MOST CURRENT SET OF PROJECT DRAWINGS ON SITE AT ALL TIMES. CONTRACTOR TO CONFIRM THEY ARE IN POSSESSION OF THE MOST CURRENT DRAWING FILES.
4. DURING ALL PHASES OF WORK, DO NOT DISTURB THE DELIVERIES AND FUNCTIONS OF ADJACENT AND NEIGHBORING TENANTS.
5. 'TYP' MEANS THAT THE CONDITION IS REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT, UNLESS OTHERWISE NOTED.
6. BIDDERS REFER TO WENDY'S APPROVED SUPPLIER LIST TO OBTAIN NATIONAL ACCOUNT PHONE NUMBERS AND CONTACTS.
7. CONTRACTOR IS RESPONSIBLE FOR FINDING AND LOCATING ALL UNDERGROUND UTILITIES IN AREAS OF EXCAVATION PRIOR TO DIGGING. ACCIDENTAL INTERRUPTION OF THESE SERVICES DURING CONSTRUCTION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. PRIOR TO DIGGING, CONTRACTOR TO CALL LOCAL UTILITY LOCATION SERVICE.
8. CONDUCT SITE CLEARING OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM AUTHORITIES HAVING JURISDICTION. STREETS AND ROADWAYS SHALL BE THOROUGHLY CLEANED AND/OR SWEPT ON A DAILY BASIS OR MORE FREQUENTLY AS REQUIRED BY THE GOVERNING AUTHORITY. RESTORE DAMAGED IMPROVEMENTS TO ORIGINAL CONDITION AS ACCEPTABLE TO PARTIES HAVING JURISDICTION.
9. PROVIDE DUST CONTROL MEASURES IN ACCORDANCE WITH LOCAL AUTHORITY REQUIREMENTS.
10. ALL STREET SURFACES, DRIVEWAYS, CULVERTS, ROADSIDE DRAINAGE DITCHES AND OTHER STRUCTURES THAT ARE DISTURBED OR DAMAGED IN ANY MANNER AS A RESULT OF CONSTRUCTION SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS, AT NO ADDITIONAL COST TO THE OWNER.
11. UNLESS SPECIFIED OTHERWISE, ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH WENDY'S SPECIFICATIONS, THE STATE DEPARTMENT OF ENVIRONMENTAL QUALITY STANDARDS, DEPARTMENT OF TRANSPORTATION SPECIFICATIONS AND/OR THE APPROPRIATE LOCAL AUTHORITY HAVING JURISDICTION.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, PERMIT FEES, LICENSES, LICENSE FEES, UNLESS NOTED OTHERWISE.
13. RELOCATION OF ANY UTILITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE PROVISIONS OF THE APPROPRIATE UTILITY COMPANY AND OR REGULATORY AGENCY. OBTAIN WRITTEN APPROVAL FROM THE ENGINEER BEFORE ANY UTILITY RELOCATION.
14. ELECTRONIC FILES IN DWG FORMAT WILL BE SUPPLIED TO THE CONSTRUCTION MANAGER FOR LAYOUT AND GRADING.
15. ELECTRONIC FILE USE TERMS AND CONDITIONS:
    - 15.1. DRAWINGS AND DESIGN ARE THE INTELLECTUAL PROPERTY OF THE DESIGNER. CONTRACTOR, AND THEIR SUBCONTRACTORS ON THE REFERENCED PROJECT, SHALL BE AUTHORIZED TO USE THIS INFORMATION ONLY IN CONNECTION WITH THE REFERENCED PROJECT. ANY USE OR REUSE FOR ANY OTHER PURPOSE WHATSOEVER SHALL NOT BE ALLOWED, AND WILL BE AT CONTRACTOR'S RISK AND FULL LEGAL RESPONSIBILITY, WITHOUT LIABILITY TO THE DESIGNER. CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD HARMLESS THE DESIGNER FROM ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF UNAUTHORIZED USE OF THIS INFORMATION.
    - 15.2. COPIES OF DRAWINGS FURNISHED BY THE DESIGNER THAT MAY BE RELIED UPON BY CONTRACTOR ARE LIMITED TO THE PRINTED DRAWINGS (ALSO KNOWN AS HARD COPIES) TITLED "PROJECT TITLE" DATED MONTH DAY, YEAR, OR AS REVISED BY WRITTEN CHANGE ORDER THAT ARE THE BASIS OF THE CONTRACTOR'S BID AND CONTRACT. ALL COMPUTER FILES ON ELECTRONIC MEDIA THAT ARE FURNISHED BY THE DESIGNER TO CONTRACTOR ARE ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. ANY CONCLUSIONS OR INFORMATION OBTAINED OR DERIVED FROM SUCH ELECTRONIC FILES WILL BE AT THE USER'S SOLE RISK. THE DESIGNER CANNOT GUARANTEE THE LONGEVITY OF ANY MATERIAL TRANSMITTED ELECTRONICALLY NOR CAN THE DESIGNER GUARANTEE THE ABILITY OF THE RECIPIENT TO OPEN AND USE THE DIGITAL VERSIONS OF THE DOCUMENTS.
    - 15.3. ANY CONTRACTOR OR SUBCONTRACTOR USING THIS INFORMATION ASSUMES RESPONSIBILITY TO UTILIZE THE CORRECT HORIZONTAL AND VERTICAL CONTROL AND BENCHMARK INFORMATION AS SHOWN ON THE DRAWINGS AND TO DOUBLE CHECK CONTROL AGAINST ACTUAL FIELD CONDITIONS BEFORE DOING ANY STAKING OR CONSTRUCTION.
    - 15.4. UPON ACCEPTANCE OF THE ELECTRONIC DATA TRANSMISSION, RECIPENT HEREBY AGREES TO THE FOREGOING TERMS AND CONDITIONS. IF RECIPIENT DOES NOT AGREE TO THE FOREGOING TERMS AND CONDITIONS, WENDY'S AND ITS CONSULTANTS DO NOT AUTHORIZE THE USE OF THE TRANSMITTED DATA, AND RECIPIENT SHALL DESTROY THE TRANSMITTED DATA AND NOTIFY WENDY'S OR ITS CONSULTANTS OF THE SAME BY PROVIDING WRITTEN NOTICE WITHIN ONE DAY OF TRANSMISSION. FAILURE TO PROVIDE SUCH NOTICE SHALL ACT AS WAIVER AND RECIPIENT SHALL BE BOUND TO THE FOREGOING TERMS AND CONDITIONS.

ABBREVIATIONS

ABBREV.	MEANING	ABBREV.	MEANING
ABAN.	ABANDON	MFGR	MANUFACTURER
ADJ.	ADJACENT	MGD	MILLION GALLONS PER DAY
AGG.	AGGREGATE	MH.	MANHOLE
ALT.	ALTERNATE	MIN.	MINIMUM
APPD.	APPROVED	MISC.	MISCELLANEOUS
APPROX.	APPROXIMATE	MJ	MECHANICAL JOINT
B/B	BACK TO BACK	MON.	MONUMENT
BIT.	BITUMINOUS	NA	NOT APPLICABLE
BLDG.	BUILDING	NIC	NOT IN CONTRACT
BLVD.	BOULEVARD	NRCP	NON–REINFORCED CONCRETE PIPE
BM	BENCH MARK	NTS	NOT TO SCALE
BNDY.	BOUNDARY	OC	ON CENTER
BOT.	BOTTOM	OD	OUTSIDE DIAMETER
BSMT.	BASEMENT	OE	OVERHEAD ELECTRIC
C & G	CURB AND GUTTER	OP	FIBER OPTICS
C/C	CENTER TO CENTER	ORIG.	ORIGINAL
CATV	CABLE TELEVISION	OT	OVERHEAD TELEPHONE
CB	CATCH BASIN	PC	POINT OF CURVE
CF	CUBIC FEET	PCC	POINT OF COMPOUND CURVATURE
CFS	CUBIC FEET PER SECOND	PE	POLYETHYLENE
CL	CENTERLINE	PE PERF.	POLYETHYLENE PIPE PERFORATED
CMP	CORRUGATED METAL PIPE	PERF.	PERFORATED
CO.	CLEAN OUT	PI	POINT OF INTERSECTION
CONC	CONCRETE	PIV	POST INDICATOR VALVE
CONST.	CONSTRUCTION	PL	PROPERTY LINE
COORD.	COORDINATE	POB	POINT OF BEGINNING
CP	COPPER PIPE	POE	POINT OF ENDING
CSP	CORRUGATED STEEL PIPE	PRC	POINT OF REVERSE CURVE
CSPA	CORRUGATED STEEL PIPE ARCH	PROP.	PROPOSED
CULV.	CULVERT	PSF	POUNDS PER SQUARE FOOT
CY	CUBIC YARD	PSI	POUNDS PER SQUARE INCH
DEG (°)	DEGREE	PT	POINT OF TANGENCY
DEMO.	DEMOLISH	PVC	POLYVINAL CHLORIDE
DIP	DUCTILE IRON	PVC	POINT OF VERTICAL CURVE
DIA.	DIAMETER	PVI	POINT OF VERTICAL INTERSECTION
DIM.	DIMENSION	PVMT.	PAVEMENT
DIST.	DISTANCE	PVT	POINT OF VERTICAL TANGENCY
ELEC	ELECTRIC CONDUIT	QTY.	QUANTITY
EL.	ELEVATION	R.	RADIUS
ENGR.	ENGINEER	RCP	REINFORCED CONCRETE PIPE
EOM	EDGE OF METAL	RED.	REDUCER
EQUIP.	EQUIPMENT	REF.	REFERENCE
ESMT.	EASEMENT	REQD.	REQUIRED
EXIST. EX.	EXISTING	REV.	REVISION
EXT.	EXTERIOR	RJ	RESTRAINED JOINT
F/F	FACE TO FACE	ROW	RIGHT OF WAY
FDN.	FOUNDATION	SAN	SANITARY SEWER
FIG.	FIGURE	SF	SQUARE FOOT
FF	FINISH FLOOR	SPEC.	SPECIFICATION
FIN. GR.	FINISH GRADE	SS	SIDE SLOPE
FM	FORCE MAIN	STA.	STATION
FTG.	FOOTING	STD.	STANDARD
GEN.	GENERATOR	STL.	STEEL
GND.	GROUND	STM	STORM SEWER
GPD	GALLONS PER DAY	SYD	SQUARE YARD
GPM	GALLONS PER MINUTE	TC	TOP OF CURB
HDPE	HIGH DENSITY POLYETHELENE	TAN.	TANGENT
HDWL.	HEADWALL	TEL	TELEPHONE LINE
H.	HEIGHT	TEMP.	TEMPORARY
HORIZ.	HORIZONTAL	TOC	TOP OF CASTING
HP	HIGH POINT	T/W	TOP OF WALL
HWL	HIGH WATER LEVEL	TRPT	TRAVERSE POINT
HWY.	HIGHWAY	TYP.	TYPICAL
HYD.	HYDRANT	UD	UNDER DRAIN
ID	INSIDE DIAMETER	UTIL.	UTILITY
INV	INVERT ELEVATION	VB	VALVE BOX
INCL.	INCLUDE	VCP	VITRIFIED CLAY PIPE
LAT.	LATERAL	VERT.	VERTICAL
LF	LINEAL FEET	W/	WITH
L.	LENGTH	W/O	WITHOUT
LP	LOW POINT	WL	WATER LEVEL
LS	LUMP SUM	WTR	WATER MAIN
LWL	LOW WATER LEVEL	WWF	WELDED WIRE FABRIC
M/L	MORE OR LESS	XFMR.	TRANSFORMER
MAINT.	MAINTENANCE		
MATL.	MATERIAL		
MAX.	MAXIMUM		
MB.	MAILBOX		

AGENCIES

ZONING
CITY OF JONESBORO
PLANNING AND ZONING DEPARTMENT
300 SOUTH CHURCH
P.O. BOX 1845
JONESBORO, AR 72403–1845
(870) 932–0406 EXT: 4130
DARREL.SMITH@JONESBORO.ORG

UTILITIES

WATER
CITY WATER AND LIGHT
BRAD TIMMS
400 EAST MONROE
P.O. BOX 1289
JONESBORO, AR 72403–1289
(870) 935–5581
BTIMMS@JONESBOROCWL.ORG

SANITARY SEWER
CITY WATER AND LIGHT
BRAD TIMMS
400 EAST MONROE
P.O. BOX 1289
JONESBORO, AR 72403–1289
(870) 935–5581
BTIMMS@JONESBOROCWL.ORG

ELECTRIC
CITY WATER AND LIGHT
ROB KINKADE
400 EAST MONROE
P.O. BOX 1289
JONESBORO, AR 72403–1289
(870) 935–5581
RKINKADE@JONESBOROCWL.ORG

GAS
CENTERPOINT ENERGY
GRACE GRUBB
3013 OLE FEED HOUSE ROAD
JONESBORO, AR 72404
(501) 377–4851
GRACE.GRUBB@CENTERPOINTENERGY.COM

TELEPHONE
SUDDEN LINK
LORETTA PERIN
1520 SOUTH CARAWAY ROAD
JONESBORO, AR 72401
(417) 559–2815
LORETTA.PERIN@SUDDENLINK.COM

BUILDING PERMITS
TIM RENSHAW
CHEIF BUILDING OFFICIAL
300 SOUTH CHURCH STREET
JONESBORO, AR 72401
(870) 336–7194
TRENSHAW@JONESBORO.ORG

FIRE
CITY OF JONESBORO FIRE DEPARTMENT
KEVIN MILLER
3215 E. JOHNSON AVENUE
JONESBORO, AR 72401
(870) 932–2428
KMILLER@JONESBORO.ORG

SHEET INDEX

SHEET #	SHEET NAME	REVISION / DATE
G1.0	COVER SHEET	
C1.0	SURVEY	
C2.0	SITE LAYOUT PLAN	
C3.0	GRADING PLAN	
C3.1	EROSION CONTROL PLAN – PHASE I	
C3.2	EROSION CONTROL PLAN – PHASE II	
C3.3	EROSION CONTROL DETAILS	
C3.4	EROSION CONTROL DETAILS	
C4.0	UTILITY PLAN	
C5.0	SITE PAVING & UTILITY DETAILS	
C5.1	COMPOSITE TRASH ENCLOSURE DETAILS	
C5.2	STANDARD DRIVE–THRU EQUIPMENT DETAILS	
C5.3	MISCELLANEOUS DETAILS	
C5.4	MISCELLANEOUS DETAILS	
C5.5	MISCELLANEOUS DETAILS	
C6.0	SITE LIGHTING PHOTOMETRIC PLAN	
L1.0	LANDSCAPE PLAN	
L1.1	LANDSCAPE DETAILS	
L2.0	IRRIGATION PLAN	
L2.1	IRRIGATION DETAILS	
L2.2	IRRIGATION DETAILS	
L2.3	IRRIGATION DETAILS	
CSP1	CIVIL SPECIFICATIONS	

PROJECT TEAM DIRECTORY

CIVIL ENGINEER	CARLSON CONSULTING ENGINEERS, INC.
	7068 LEDGESTONE COMMONS
	BARTLETT, TN 38133
	CONTACT: JOSEPH PARSLEY
	TEL: (901) 384–0404 (EXT 114)
	CELL: –
	EMAIL: JOSEPHPARSLEY@ CARLSONCONSULTING.NET
ARCHITECT	DESIGN +, INC.
	1449 BARDSTOWN ROAD, STE 200
	–LOUISVILLE, KY 40204
	CONTACT: KEN BROWN
	TEL: (502) 454–5011 (EXT 113)
	CELL: –
	EMAIL: KENB@DESIGNPLUSINC.COM
LANDSCAPE DESIGNER	CARLSON CONSULTING ENGINEERS, INC.
	7068 LEDGESTONE COMMONS
	BARTLETT, TN 38133
	CONTACT: CHUCK WALKER
	TEL: (901) 384–0404 (EXT 112)
	CELL: –
	EMAIL: CHUCKWALKER@ CARLSONCONSULTING.NET
MEP ENGINEER	M ENGINEERING
	750 BROOKSEDGE BLVD.
	WESTERVILLE, OH 43081
	CONTACT: BRAD SHAFFER
	TEL: (614) 839–4639
	CELL: –
	EMAIL: –
STRUCTURAL ENGINEER	RICHARD BARRIOS, PE
	10212 WORTHINGTON DRIVE
	PROSPECT, KY 40059
	CONTACT: RICHARD BARRIOS
	TEL: (502) 873–5741
	CELL: –
	EMAIL: –
GENERAL CONTRACTOR	–
	–
	–
	CONTACT: –
	TEL: –
	CELL: –
	EMAIL: –

LOCAL UTILITY LOCATING AGENCY

CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AND GOVERNMENT AGENCIES IN WRITING OF THE INTENT TO EXCAVATE NO LESS THAN 72 HOURS PRIOR TO SUCH EXCAVATION (EXCLUSIVE OF SATURDAYS, SUNDAYS, AND HOLIDAYS) AND CALL LOCAL UTILITY LOCATING AGENCY AT 811.

EXISTING UTILITY LOCATIONS SHOWN SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. LOCATIONS OF UNDERGROUND UTILITIES ON THESE DRAWINGS ARE APPROXIMATE ONLY AND BASED ON ACTUAL FIELD LOCATIONS OF VISIBLE STRUCTURES AND PLAN

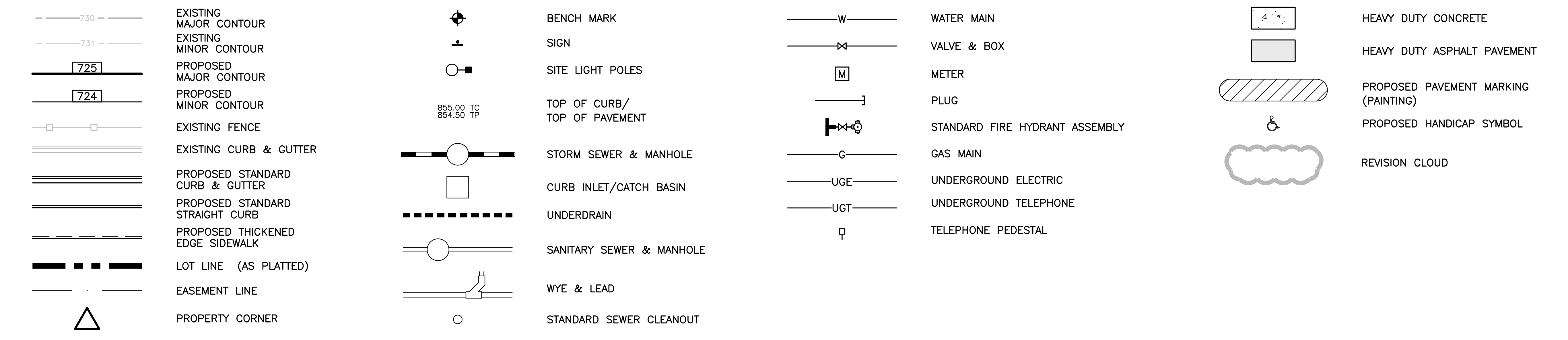
SURVEY

EXISTING TOPOGRAHPY IS BASED ON AN ACTUAL FIELD SURVEY PERFORMED BY CARLSON CONSULTING ENGINEERS, INC., BARTLETT, TN ON DECEMBER 5, 2018.

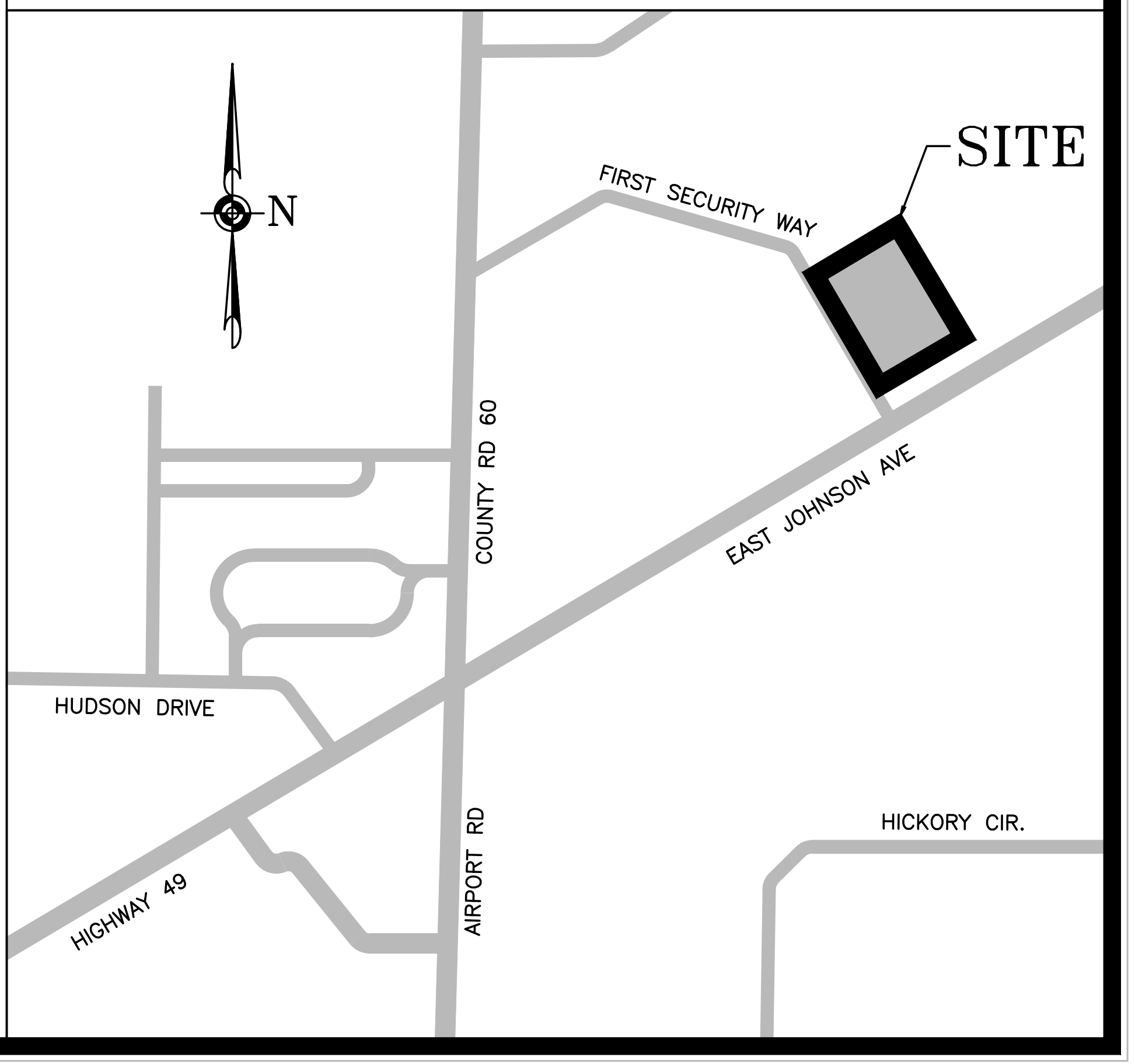
GEOTECHNICAL

REFER TO SOIL BORINGS AND GEOTECHNICAL REPORT PERFORMED AND PREPARED BY INTERTEK – PSI DATED NOVEMBER 26, 2018.

SYMBOL LEGEND



VICINITY MAP



SITE NUMBER:	13006
BASE MODEL:	2018 PROTOTYPE
ASSET TYPE:	COMPANY
CLASSIFICATION:	NEW
OWNER:	COMPANY
BASE VERSION:	2018
UPGRADE CLASSIFICATION:	COMPANY NEW BUILD
PROJECT YEAR:	2018
FURNITURE PACKAGE:	XXX
DESIGN BULLETINS:	–

CARLSON
CONSULTING
ENGINEERS, INC.
7068 LEDGESTONE COMMONS
BARTLETT, TENNESSEE 38133
PH. (901) 384-0404 • FX. (901) 384-0710
AR CORPORATION #397

811
Know what's **below.**
Call before you dig.
3 business days prior to excavation:

PROJECT TYPE:	2018 CIVIL PROTOTYPE

4204 E. JOHNSON AVE.
JONESBORO, AR 72401

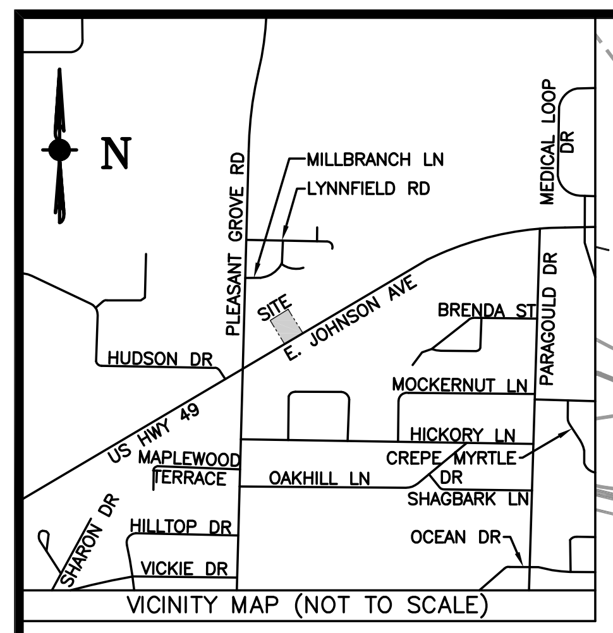
REV.	DATE	DESCRIPTION

ISSUE DATE:	3/1/19
PROJECT NUMBER:	N/A
DRAWN BY:	TGH
CHECKED BY:	DLC

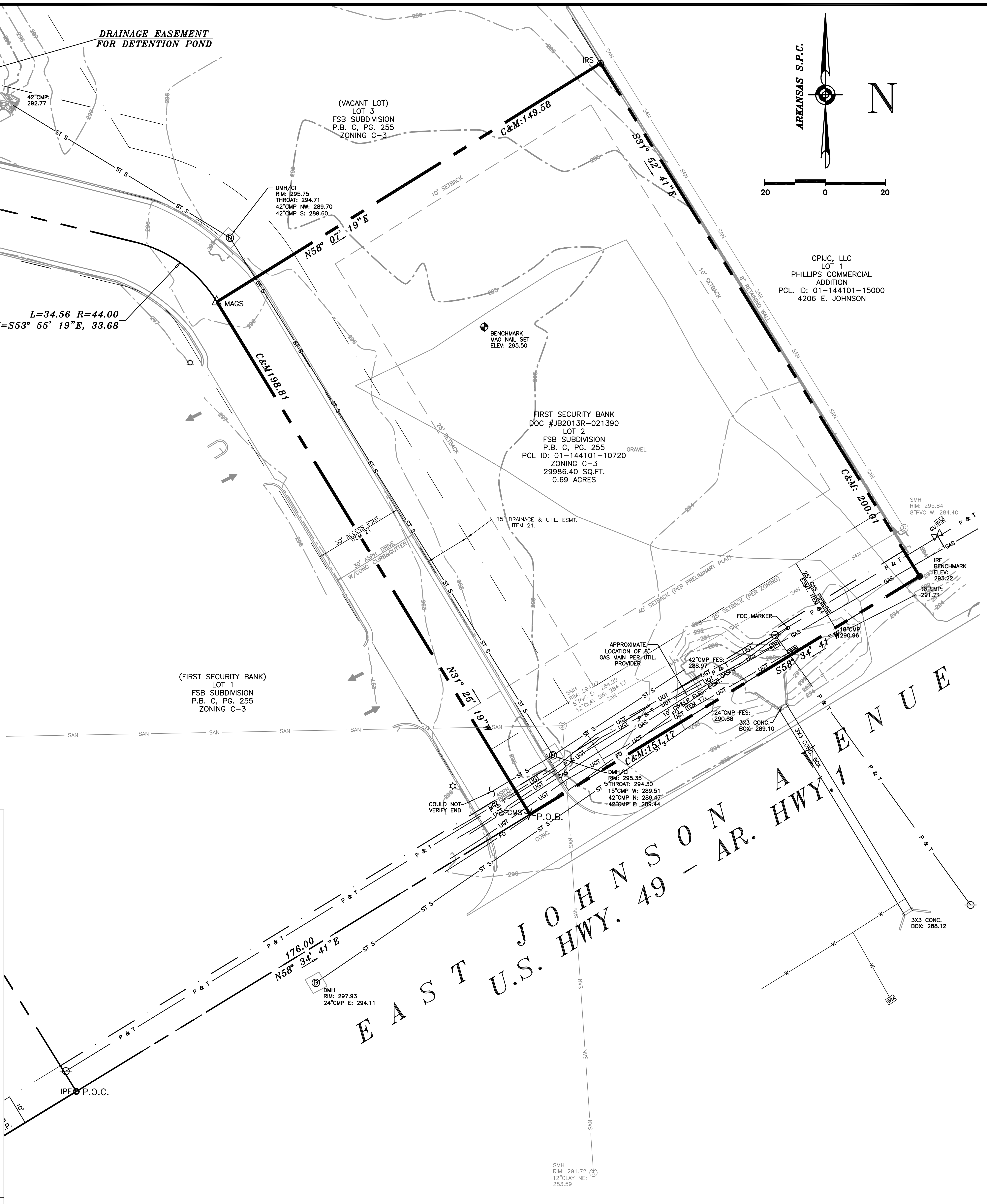
No. 13316
JOSEPH PARSLEY
3/12/19

SHEET NAME
COVER SHEET

SHEET NUMBER
G1.0



VICINITY MAP (NOT TO SCALE)



NOTES:

1. THE STREET ADDRESS OF THE PROPERTY SHOWN ON THIS SURVEY IS 4200 E JOHNSON AVE JONESBORO, AR 72401.

2. THE TAX PARCEL NUMBER FOR THIS PROPERTY IS 01–144101–10720. THE RECORD OWNER OF LOT SHOWN HEREON IS: FIRST SECURITY BANK

3. THE AREA OF THE PROPERTY SURVEYED CONTAINING 29,986.40 SQ.FT. OR 0.69 ACRES, MORE OR LESS.

4. THE PROPERTY AREA WAS DETERMINED BY THE COORDINATE COMPUTATION METHOD.

5. DISTANCES SHOWN HEREON ARE HORIZONTAL GROUND DISTANCES UNLESS OTHERWISE NOTED.

6. THE CURRENT ZONING OF THIS PROPERTY IS C–3 (GENERAL COMMERCIAL) THE MINIMUM BUILDING SETBACK DISTANCES ARE AS FOLLOWS: FRONT YARD= 25 FEET; SIDE YARD= 10 FEET; REAR YARD= 20 FEET; ZONING INFORMATION PROVIDED BY JONESBORO PLANNING AND ZONING DEPARTMENT.

7. ANY UNDERGROUND UTILITIES SHOWN HEREON HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. ALTHOUGH HE DOES STATE THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. BEFORE BEGINNING ANY CONSTRUCTION OR BORINGS CONTACT THE UTILITIES PROTECTION SERVICE CENTER AT ARKANSAS 1–CALL: 811/1–800–482–8998.

8. THE SUBJECT PROPERTY IS LOCATED IN SPECIAL FLOOD HAZARD AREA ZONE "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS PER FLOOD LINES ESTABLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY AS SHOWN ON FLOOD INSURANCE RATE MAP NUMBER 05031c0044 C, DATED: SEPTEMBER 27, 1991.

9. ALL CORNERS NOT LABELED ARE TO BE CONSIDERED POINTS.

10. THIS IS A SURVEY OF THE PROPERTY REFERENCED IN PLAT BOOK C, PAGE 255 IN THE CRAIGHEAD COUNTY CIRCUIT CLERK'S OFFICE.

11. THE REFERENCE BEARING FOR THIS DRAWING IS BASED ON ARKANSAS SPC. PROVIDED BY OPUS OBSERVATION BY GLOBAL POSITIONING SYSTEM. NAD 83 ARKANSAS STATE PLANE, NORTH ZONE (0301 AR N), US FOOT.
COMBINED FACTOR=0.99993790
CONVERGENCE ANGLE=0.78685278
ELEVATIONS FOR THIS DRAWING ARE BASED ON NAVD88
HORIZONTAL AND VERTICAL CONTROL POINTS USED:
–DH8992 ARBT BATESVILLE CORS ARP
–DO9379 ARJB JONESBORO CORS ARP
–DH7109 ARPG PARAGOULD CORS ARP

12. THERE ARE NO VISIBLE AND/OR APPARENT ENCROACHMENTS OR PROJECTIONS OTHER THAN THOSE SHOWN ON THIS PLAT OF SURVEY.

13. AT THE TIME OF THE SURVEY, THE SURVEYOR NOTICED OBSERVABLE EVIDENCE OF THE FOLLOWING UTILITIES: SANITARY SEWER, STORM SEWER, WATER, ELECTRIC, TELEPHONE, GAS, FIBER OPTICS, CATV.

14. NO LOCAL ROADWAY MILE MARKERS APPARENT.

15. ALL ACTIVE DRAINAGE PIPES, STRUCTURES AND SANITARY MANHOLES ARE PRECAST AND IN FAIR CONDITION.

16. NO OBSERVED EVIDENCE OF EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS.

17. NO EVIDENCE OF SITE USE AS A SOLID WASTE DUMP, SUMP OR SANITARY LANDFILL.

18. DATE OF THE FIELD SURVEY: 12/3/2018–12/6/2018

19. PROPERTY CORNERS SET ––––.

The Land referred to herein below is situated in the County of Craighead, State of Arkansas, and is described as follows:

LOT 2, FSB SUBDIVISION TO THE CITY OF JONESBORO, CRAIGHEAD COUNTY, ARKANSAS.

SURVEY LEGAL DESCRIPTION

SITUATED IN THE CITY OF JONESBORO, COUNTY OF CRAIGHEAD AND STATE OF ARKANSAS AND KNOWN AS BEING LOT 2 IN THE FSB SUBDIVISION AS SHOWN BY PLAT RECORDED IN PLAT BOOK C, PAGE 255 IN THE CRAIGHEAD COUNTY CIRCUIT CLERK'S OFFICE, SAID SUBDIVISION LYING IN NW 1/4, NE 1/4 OF SECTION 10, TOWNSHIP 14 NORTH, RANGE 4 EAST.

COMMENCING AT A 1" IRON PIPE FOUND AT THE SOUTHWEST CORNER OF SAID FSB SUBDIVISION SAID CORNER LYING IN THE NORTHWESTERLY RIGHT–OF–WAY LINE OF EAST JOHNSON AVENUE, THENCE ALONG SAID RIGHT–OF–WAY LINE NORTH 58°34'41" EAST A DISTANCE OF 176.00 FEET TO A CHISELED MARK SET AT A SOUTHEASTERLY CORNER OF LOT 1 IN SAID SUBDIVISION AT THE PLACE OF BEGINNING OF THE PREMISES HEREIN INTENDED TO BE DESCRIBED;

THENCE ALONG THE EASTERLY LINE OF SAID LOT 1 NORTH 31°25'19" WEST A DISTANCE OF 188.81 FEET TO A MAG NAIL SET AT A SOUTHWESTERLY CORNER OF LOT 3 IN SAID SUBDIVISION;

THENCE ALONG A SOUTHERLY LINE OF SAID LOT 3 NORTH 58°07'19" EAST A DISTANCE OF 149.58 FEET TO A CAPPED 5/8" IRON REBAR SET IN A WESTERLY LINE OF THE PHILLIPS COMMERCIAL ADDITION;

THENCE ALONG SAID WESTERLY LINE SOUTH 31°52'41" EAST A DISTANCE OF 200.01 TO A CAPPED REBAR (ID: HANCOCK) FOUND AT THE SOUTHWESTERLY CORNER THEREOF LYING IN SAID RIGHT–OF–WAY LINE;

THENCE ALONG SAID RIGHT–OF–WAY LINE SOUTH 58°34'41" WEST A DISTANCE OF 151.17 FEET TO THE PLACE OF BEGINNING CONTAINING 29,986 SQUARE FEET OR 0.69 ACRES OF LAND.

First American Title Insurance Company
SCHEDULE B, PART II
Exceptions

COMMITMENT No. 6–4452
COMMITMENT DATE: January 22, 2019 at 8:00 AM
FILE No. NCS–944263–MICH

THIS COMMITMENT DOES NOT REPUBLISH ANY COVENANT, CONDmON, RESTRICTION, OR LIMITATION CONTAINED IN ANY DOCUMENT REFERRED TO IN THIS COMMITMENT TO THE EXTENT THAT THE SPECIFIC COVENANT, CONDmON, RESTRICTION, OR LIMITATION VIOLATES STATE OR FEDERAL LAW BASED ON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, GENDER IDENTITY, HANDICAP, FAMILIAL STATUS, OR NATIONAL ORIGIN.

The Policy will not insure against loss or damage resulting from the terms and provisions of any lease or easement identified in Schedule A, and will include the following Exceptions unless cleared to the satisfaction of the Company:

1. Defects, liens, encumbrances, adverse claims, or other matters, if any, created, first appearing in the public records or attaching subsequent to the effective date hereof but prior to the date the proposed insured acquires for value of record the estate or interest or mortgage thereon covered by this Commitment. ***Apparent Encroachments: 1.) Sanitary sewer main and service connection to Lot 1 (Bank Building): 2.) 42" Storm sewer main: 3.) Gas line, Note; Item 14 is a gas pipeline easement: 4.) Underground Telephone cable, as located by provider, exits 10' Electric easement in Item 17 to City Water & Light Plant of Jonesboro, communications lines are permitted by this easement. However buried cables are not specifically included. This easement is apparently intended for aerial lines " over and across" subject parcel..***

2. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records. ***Not a survey related item.***

3. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land. ***None Apparent.***

4. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records. ***Apparent Encroachments: 1.) Sanitary sewer main and service connection to Lot 1 (Bank Building): 2.) 42" Storm sewer main: 3.) Gas line, Note; Item 14 is a gas pipeline easement: 4.) Underground Telephone cable, as located by provider, exits 10' Electric easement in Item 17 to City Water & Light Plant of Jonesboro, communications lines are permitted by this easement. However buried cables are not specifically included. This easement is apparently intended for aerial lines " over and across" subject parcel..***

5. Any lien, or right to a lien, for services, labor, or material heretofore or hereafter furnished, imposed by law and not shown by the public records. ***Not a survey related item.***

6. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records. ***None Apparent.***

7. Any claim to (a) ownership of or rights to minerals and similar substances, including but not limited to ores, metals, coal, lignite, oil, gas, uranium, limestone, clay, rock, sand, and gravel located in, on, or under the Land or produced from the Land, whether such ownership or rights arise by lease, grant, exception, conveyance, reservation, or otherwise, and (b) any rights, privileges, immunities, rights of way, and easements associated therewith or appurtenant thereto, whether or not the interests or rights excepted in (a) or (b) appear in the Public Records are shown in Schedule B. ***Not a survey related item.***

8. Taxes and assessments not yet due and payable at Commitment Date. ***Not a survey related item.***

9. Any title or rights asserted by anyone including but not limited to person, corporation, governments or other entities, to tidelands, or lands comprising the shores of bottoms of navigable rivers, lakes, bays, oceans or gulf, of lands beyond the line of the harbor or bulkhead lines as established or changed by the United States Government or water rights, if any. ***Does not affect subject parcel.***

10. Reservations contained in Patent from the United State of America or State where land described in Exhibit A is located. ***Not a survey related item.***

11. Any claim, which arises out of the transaction vesting in the insured, the estate or interest insured by this policy, by reason of the operation of federal bankruptcy, state insolvency or similar creditor's right laws. ***Not a survey related item.***

12. Any prior mineral reservation of conveyance, together with rights, privileges and immunities relating thereto and release of damages of minerals of every kind and character, including, but not limited to oil, gas, sand and gravel in or on and under subject property. ***Not a survey related item.***

13. The policy will not insure acreage. Any mention of acreage is for the descriptive purposes only. ***Subject Parcel acreage is shown as surveyed.***

14. That certain easement in favor of Arkansas Louisiana Gas Company filed 10/15/65 in Book 162 at Page 613 in the records of Craighead County, Arkansas. ***Affects Subject Parcel and is shown hereon.***

15. That certain easement in favor of Arkansas Louisiana Gas Company filed 7/12/79 in Book 271 at Page 376 in the records of Craighead County, Arkansas. ***Does not affect Subject Parcel.***

16. That certain Easement – Electric Lines filed 2/12/85 in Book 316 at Page 547 in the records of Craighead County, Arkansas. ***Does not affect Subject Parcel.***

17. That certain Easement – Electric Lines filed 2/12/85 in Book 316 at Page 549 in the records of Craighead County, Arkansas. ***Affects Subject Parcel and is shown hereon.***

18. That certain Drainage Easement filed 10/5/00 in Book 597 at Page 132 in the records of Craighead County, Arkansas. ***Does not affect Subject Parcel.***

19. That certain Drainage Easement filed 10/5/00 in Book 597 at Page 134 in the records of Craighead County, Arkansas. ***Does not affect Subject Parcel.***

20. That certain Maintenance Assurance for Stormwater Management Facilities filed 6/18/15 as document #JB2015R– 009446 in the records of Craighead County, Arkansas. ***Maintenance assurance affects subject parcel but is not a survey related item.***

21. Reservations, restrictions, dedications, easements, right–of–way and setback lines as may be shown on the plat of said FSB Subdivision, recorded in plat Book C at Page 255. ***Affects Subject Parcel and is shown hereon***

NOTE: The Arkansas Insurance Department address and contact information is: Arkansas Insurance Department, Consumers Services Division, 1200 W. 3rd Street, Little Rock, AR 72201–1940. (800) 852–5494 or (501) 371–2640.

SYMBOLS LEGEND

⊠	CONC. MONUMENT
● IRF	IRON REBAR FOUND
◉ IRS	5/8" CAPPED IRON REBAR SET
+ CMF	CHISELED MARK FOUND
○ 1"IPF	IRON PIPE FOUND
▲ PKF	PK NAIL FOUND
△ MAGS	MAG NAIL SET
Ⓢ SMH	SANITARY MANHOLE
◎ SCO	SANITARY CLEANOUT
GT	GREASE TRAP
Ⓓ DMH	DRAINAGE MANHOLE
CI	CURB INLET
●	CATCH BASIN
⊗	SURFACE DOWN SPOUT
▢	UNDERGROUND DOWN SPOUT
☼	HYDRANT
WM	WATER METER
WV ⋈	WATER VALVE
ICV ⋈	IRRIGATION CONTROL VALVE
WS	WATER SPIGGOT
MB	MAILBOX
GM	GAS METER
GV ⋈	GAS VALVE
☼ LIGHT	AREA LIGHT
☼ LIGHT	CONCRETE BASE LIGHT POLE
☼	WALL MOUNTED FLOOD LIGHT
Ⓔ	ELECTRIC MANHOLE
EM	ELECTRIC METER
EPB	ELECTRIC PULLBOX
EV	ELECTRIC VAULT
Ⓣ	TELEPHONE MANHOLE
TP	TELEPHONE PEDESTAL
TPB	TELEPHONE PULLBOX
CP	CABLE T.V. PEDESTAL
⊖ PP	POWER POLE
⊕ TBM	TEMPORARY BENCHMARK
⍿	SIGN

TRAFFIC CONTROL LEGEND

♿	HANDICAP PARKING
———	PAINTED SOLID WHITE LINE
———	PAINTED SOLID YELLOW LINE
— — —	PAINTED DASHED WHITE LINE
— — —	PAINTED DASHED YELLOW LINE
→	TRAFFIC FLOW
↰	LEFT TURN ONLY LANE
↱	RIGHT TURN ONLY LANE
↰→	STRAIGHT OR LEFT TURN LANE
↱→	STRAIGHT OR RIGHT TURN LANE
▨	NO PARKING HATCH

LINE LEGEND

——OHT——	OVERHEAD TELEPHONE
——ST S——	DRAIN. SEWER LINE TYPE AND SIZE
——W——	WATER LINE AND SIZE OF PIPE
—— SAN ——	SANITARY SEWER LINE AND SIZE
—P&T——P&T—	OVERHEAD POWER & TELEPHONE CABLE
—UGE——UGE—	UNDERGROUND ELECTRIC CABLE
——UGT——	UNDERGROUND TELEPHONE CABLE
——FO——	UNDERGROUND FIBER OPTIC CABLE
—— GAS ——	GAS LINE AND SIZE
—□—□—□—	FENCE
——P&CATV——	OVERHEAD POWER AND CATV

CERTIFICATION

TO: Wen Tennessee, LLC; First American Title Insurance Company

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2016 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established by ALTA and NSPS, and includes Items 1 through 6, 7(a), 7(b)(1), 7(c), 8, 9, 10(a), 11, 13, 14, 15 through 20 of Table A thereof. The fieldwork was completed on ___________, 2019. Pursuant to the Accuracy Standards as adopted by ALTA and NSPS and in effect on the date of this certification, undersigned further certifies that in my professional opinion, as a land surveyor registered in the State of Arkansas, the Relative Positional Accuracy of this survey does not exceed that which is specified therein.

I HEREBY CERTIFY THAT THIS IS A "CLASS A" SURVEY AND THE UNADJUSTED SURVEY IS 1:10,000+ AS SHOWN HEREON.

2/27/2019
Date

Earl T Beckwith
Earl T Beckwith, PLS No. 1589

1589
EARL T. BECKWITH

REVISIONS

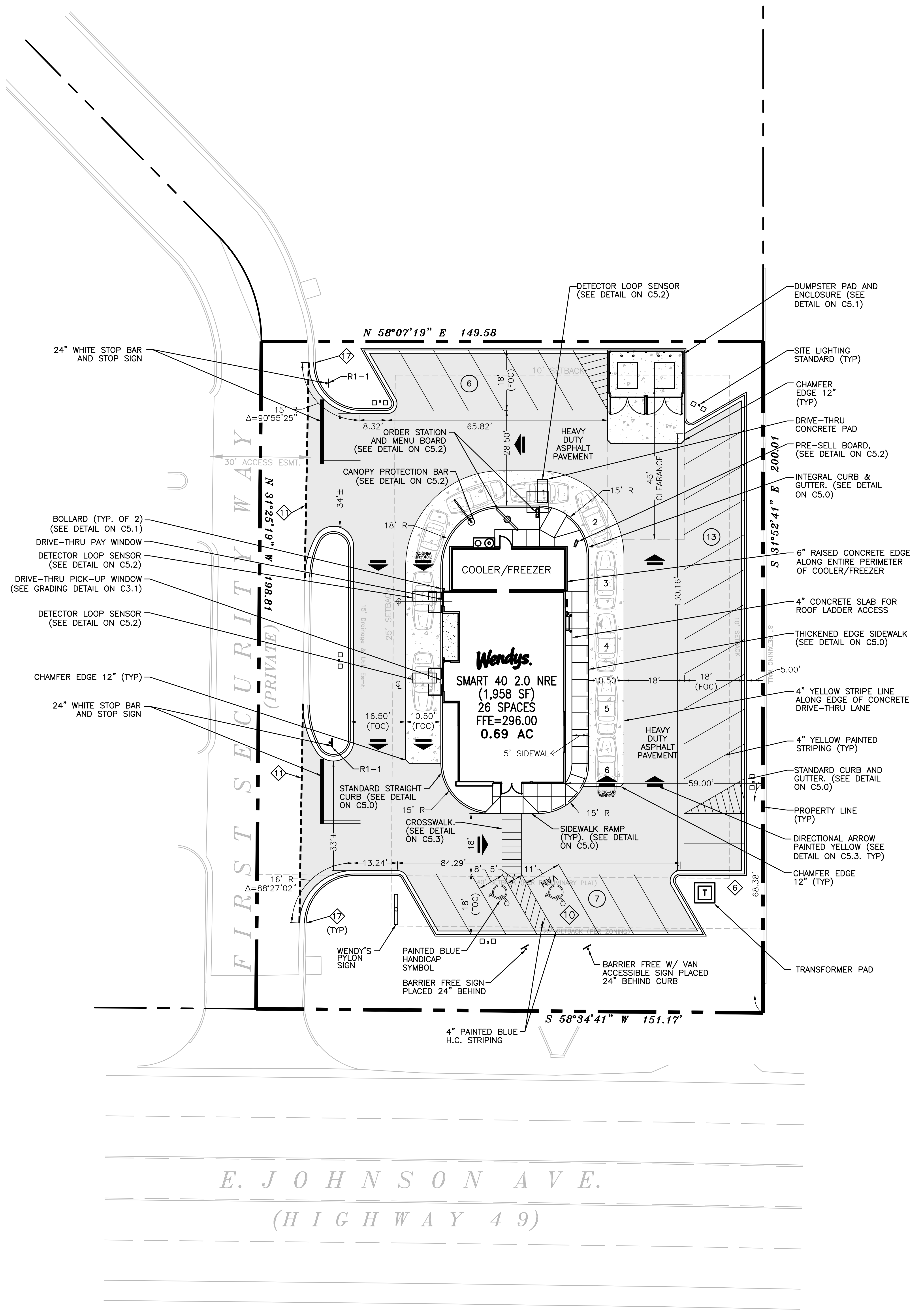
NO.	DATE	DESCRIPTION

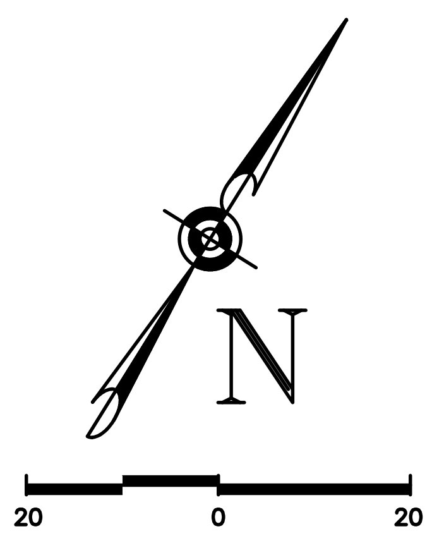
ALTA/NSPS LAND TITLE SURVEY
FOR
WEN TENNESSEE, LLC

IN THE CITY OF JONESBORO, CRAIGHEAD COUNTY, ARKANSAS

CARLSON
CONSULTING
ENGINEERS, INC.
7068 LEDGESTONE COMMONS
BARTLETT, TENNESSEE 38133
PH. (901) 384–0404 • FX. (901) 384–0710

SCALE: 1" = 20'	DRAWING FILE: WENDY'S	JOB No. JONESBORO
DATE: 2/27/2019	DRAWN BY: ETB/JSL	SHEET 1 OF 1





SITE ZONING

PARCEL #01-144101-10720

PARCEL SIZE: 0.69 ACRES
29,986 SQ. FT.

PARCEL ADDRESS: NOT YET ASSIGNED

ZONING DISTRICT: C-3 LUO

BUILDING SETBACKS:
FRONT: 25'/40 BACK: 10' SIDE: 10'

PARKING SETBACKS: (VARIANCE REQ'D)
FRONT: 25' BACK: 10' SIDE: 10'

SIGN SETBACKS:
FRONT: 10' BACK: 10' SIDE: 10'

SYMBOL LEGEND

▨	– HEAVY DUTY ASPHALT PAVEMENT
▨	– CONCRETE PAVEMENT
▨	– CONCRETE SIDEWALK
═	– PROPOSED STANDARD CURB & GUTTER
═	– PROPOSED STANDARD STRAIGHT CURB
═ ═ ═	– PROPOSED THICKENED EDGE SIDEWALK
▥	– PROPOSED CROSSWALK (PAINTED)
▨	– PROPOSED PAVEMENT MARKING (PAINTED)
- - - -	– SAWCUT LIMITS
▲	– PROPOSED PAVEMENT MARKING DIRECTION ARROWS (PAINTED)
(XX)	– PARKING SPACE COUNT
┴	– SIGN
□▪□	– LIGHT POLE

PARKING QUANTITIES

RECOMMENDED PARKING (VARIES):
1 SPACE FOR EVERY 3 SEATS.
1 SPACE FOR EVERY 2 EMPLOYEES.

RESTAURANT	40/3 =	14 SPACES
EMPLOYEES	12/2 =	6 SPACES
TOTAL		20 SPACES

PROVIDED PARKING:

24	STANDARD SPACES
2	ADA ACCESSIBLE SPACES
26	TOTAL SPACES

GENERAL NOTES

1. DIMENSIONS ARE TO FACE OF CURB, OUTSIDE FACE OF BUILDING, AND EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.
2. CONTRACTORS SHALL NOTIFY UTILITY COMPANIES AND GOVERNMENTAL AGENCIES IN WRITING AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION TO CONFIRM THE LOCATIONS OF ANY EXISTING BURIED UTILITIES.
3. SUBMIT SHOP DRAWINGS FOR ALL MATERIALS TO BE INCORPORATED INTO THE WORK A MINIMUM OF THREE WEEKS PRIOR TO PLACEMENT OR INSTALLATION.
4. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH APPLICABLE LOCAL AND STATE CODES, RULES AND REGULATIONS. OBTAIN ALL NECESSARY STATE AND LOCAL PERMITS FOR THE WORK.
5. MATCH THE EDGE OF NEW BITUMINOUS PAVEMENT TO THE EXISTING EDGE OF THE BITUMINOUS PAVEMENT. SLOPE NEW BITUMINOUS PAVEMENT TO MATCH EXISTING FLOW LINE.
6. CLEANUP AND DISPOSE OF ALL EXCESS MATERIALS OFF SITE.
7. NO PARKING OR STORAGE OF MATERIAL OR EQUIPMENT WILL BE ALLOWED WITHIN THE PUBLIC RIGHT-OF-WAY AT ANY TIME DURING CONSTRUCTION.
8. A SAFE AND ADEQUATE TRAVEL ROUTE FOR PEDESTRIANS SHALL BE MAINTAINED AT ALL TIMES. PEDESTRIANS SHALL NOT BE DETOURED INTO THE EXISTING ROADWAY OR THROUGH ACTIVE CONSTRUCTION.
9. FURNISH THE OWNER WITH A SET OF AS-BUILT DRAWINGS FOLLOWING COMPLETION OF CONSTRUCTION.

◇ NOTES:

1. DIMENSIONS ARE SHOWN TO THE EDGE OF PAVEMENT U.N.O.
2. ALL CURBS SHALL BE CONCRETE CURB & GUTTER U.N.O. SEE DETAIL SHEET FOR ADDITIONAL INFORMATION.
3. SEE THE UTILITY PLAN FOR PARKING LOT LIGHTING INFORMATION.
4. TRAFFIC SIGN NUMBERS REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
5. ALL RADII TO BE 3' U.N.O.
6. BUILDING TIES SHOWN FROM THE CORNER OF BUILDING TO A POINT PERPENDICULAR TO THE PROPERTY LINE.
7. ALL NECESSARY INSPECTIONS, APPROVALS, AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR AUTHORITIES SHALL BE COMPLETED PRIOR TO THE ANNOUNCED BUILDING POSSESSION AND THE FINAL CERTIFICATION OF SERVICES.
8. ALL DELTA ANGLES ARE 90° U.N.O.
9. ALL PAINTED PAVEMENT MARKINGS SUCH AS ACCESSIBLE SYMBOLS AND LETTERING SHALL BE PAINTED USING TEMPLATES.
10. SLOPE ON ALL ADA ACCESSIBLE ROUTES SHALL NOT EXCEED 4.5% IN THE DIRECTION OF TRAVEL AND 1.8% CROSS SLOPE. THE SLOPE WITHIN ALL ADA ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 1.8% IN ALL DIRECTIONS.
11. SAW CUT EXISTING PAVEMENT AT ENTRANCE LOCATIONS.
12. REFER TO THE ARCHITECTURAL PLANS FOR PIPE BOLLARD PLACEMENT AROUND THE BUILDING.
13. THE SUBJECT PROPERTY IS LOCATED IN SPECIAL FLOOD HAZARD AREA ZONE "X" OTHER AREAS (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS PER FLOOD LINES ESTABLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY AS SHOWN ON FLOOD INSURANCE RATE MAP NUMBER 05031C0044 C, DATED: SEPTEMBER 27, 1991.
14. COORDINATE FIRE LANE STRIPING AND SIGN REQUIREMENTS WITH LOCAL FIRE DEPARTMENT. PROVIDE ALL REQUIRED SIGNS AND STRIPING AS A PART OF THE CONTRACT.
15. CONTRACTOR SHALL SAWCUT EXISTING PAVEMENT AS SHOWN TO ALLOW FOR A CLEAN, STRAIGHT JOINT BETWEEN OLD AND NEW SURFACES. CONTRACTOR SHALL REMOVE ALL PAVEMENT, BASE MATERIALS, CURBING, ETC. WITHIN SAWCUT LIMITS OF CONSTRUCTION.
16. SEE DETAIL SHEET FOR CONCRETE PAVEMENT JOINT REQUIREMENTS.
17. CONNECT TO EXISTING CURB AND GUTTER. TRANSITION FROM STREET GUTTER WIDTH TO SITE GUTTER WIDTH THROUGH RADIUS.

SITE NUMBER:	13006
BASE MODEL:	2018 PROTOTYPE
ASSET TYPE:	COMPANY
CLASSIFICATION:	NEW
OWNER:	COMPANY
BASE VERSION:	2018
UPGRADE CLASSIFICATION:	COMPANY NEW BUILD
PROJECT YEAR:	2018
FURNITURE PACKAGE:	XXX
DESIGN BULLETINS:	–

CARLSON CONSULTING ENGINEERS, INC.
7068 LEDGESTONE COMMONS
BARTLETT, TENNESSEE 38133
PH. (901) 384-0404 • FX. (901) 384-0710
AR CORPORATION #397

811
Know what's **below.**
Call before you dig.
3 business days prior to excavation:

PROJECT TYPE:	2018 CIVIL PROTOTYPE

Wendy's

4204 E. JOHNSON AVE.
JONESBORO, AR 72401

REV.	DATE	DESCRIPTION

ISSUE DATE:	3/1/19
PROJECT NUMBER:	N/A
DRAWN BY:	TGH
CHECKED BY:	DLC

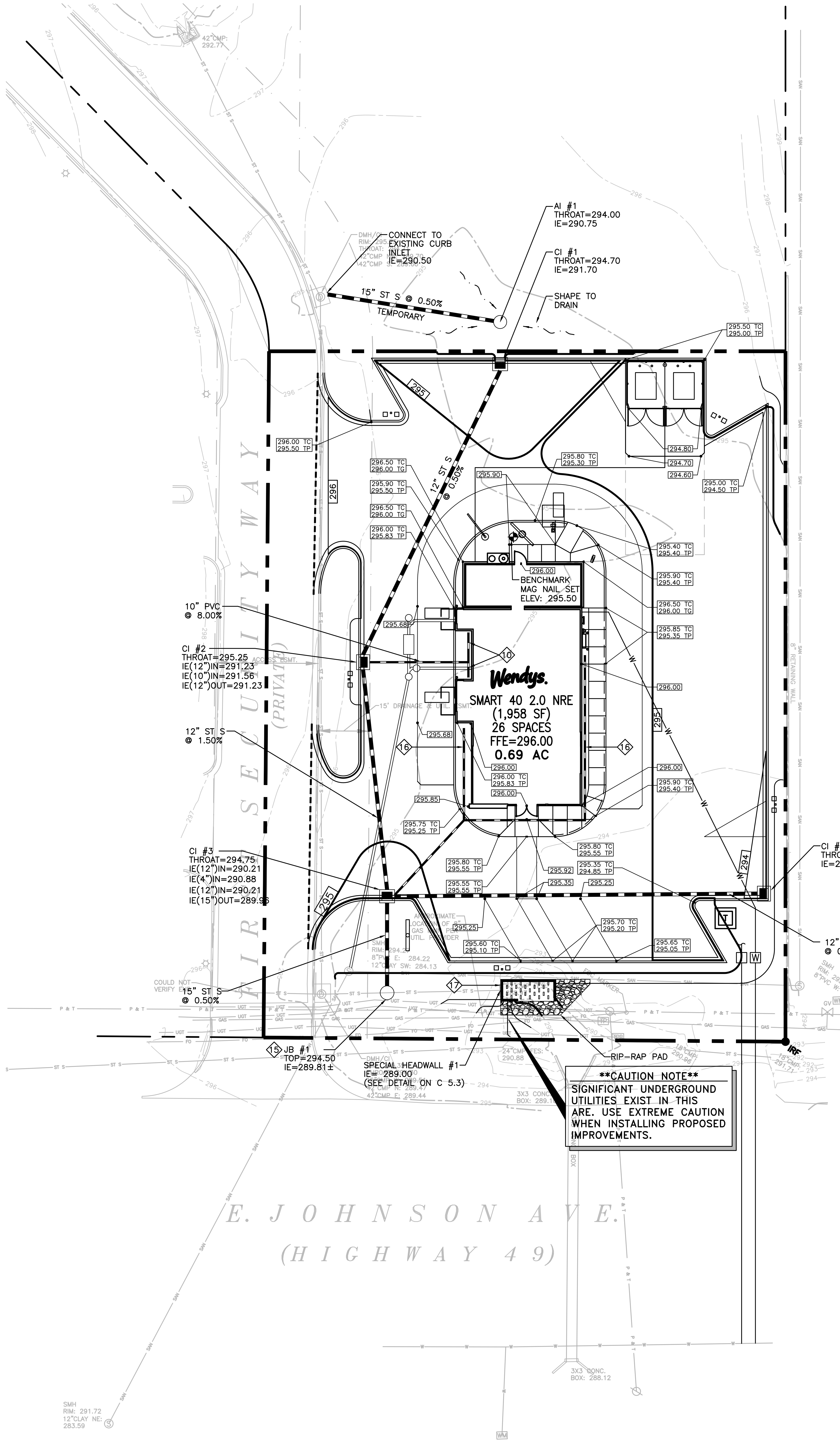
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 13316
JOSEPH PARSLEY
3/12/19

SHEET NAME

SITE LAYOUT PLAN

SHEET NUMBER

C2.0



CAUTION NOTE

SIGNIFICANT UNDERGROUND UTILITIES EXIST IN THIS ARE. USE EXTREME CAUTION WHEN INSTALLING PROPOSED IMPROVEMENTS.

BENCHMARKS

BENCHMARK – MAG NAIL SET
ELEV: 295.50

SYMBOL LEGEND

335	CONTOUR MAJOR
334	CONTOUR MINOR
335	PROPOSED CONTOUR MAJOR
334	PROPOSED CONTOUR MINER

SPOT ELEVATION LEGEND

332.50 TC	SPOT ELEVATION
TP	TOP OF PAVEMENT
TC	TOP OF CURB
TS	TOP OF SIDEWALK

GRADING NOTES

1. FINISH GRADE OF SOIL EDGES ALONG PAVEMENT TO BE 1/2" BELOW EDGE OF PAVEMENT.
2. IMPORT TOPSOIL AS NECESSARY FOR SURFACE RESTORATION.
3. GRADES SHOWN ARE FINAL SURFACE GRADES AFTER COMPLETION OF SURFACE IMPROVEMENTS AND PLACEMENT OF TOPSOIL.
4. GRADE AREAS AT SITE PERIMETER TO MATCH GRADES OF ADJACENT PARCELS.
5. REMOVE EXCESS SOIL FROM SITE AND DISPOSE OF PROPERLY IN ACCORDANCE WITH APPLICABLE REGULATIONS.
6. PROVIDE TEMPORARY GRADING FEATURES SUCH AS BERMS, SWALES, SUMPS AND BASINS TO MANAGE INTERIM STORM WATER RUNOFF DURING CONSTRUCTION PROCESS. STORM WATER RUNOFF LEAVING THE SITE SHALL MEET ALL FEDERAL, STATE AND LOCAL QUALITY REQUIREMENTS.

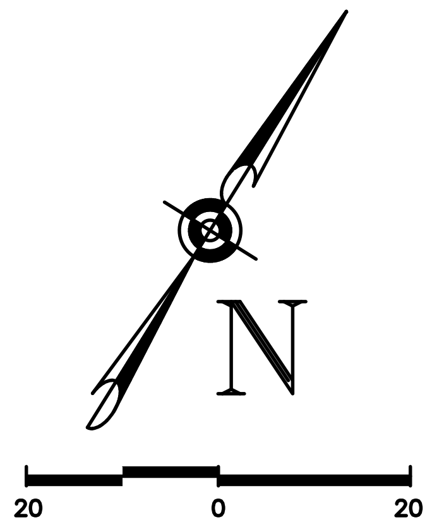
GROUNDWATER NOTICE

THE CONTRACTOR IS SPECIFICALLY CAUTIONED REGARDING THE PRESENCE OF GROUNDWATER ON THIS SITE. THE CONTRACTOR'S BASE BID SHALL INCLUDE PROVISIONS FOR ADDRESSING THIS CONDITION.

UNDERCUTTING NOTICE

THE CONTRACTOR IS SPECIFICALLY CAUTIONED REGARDING THE PRESENCE OF POTENTIALLY UNSTABLE SOILS ON THIS SITE AND THE NEED FOR UNDERCUTTING AND/OR STABILIZATION. THE SITE WILL BE PROOFROLLED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT. AREAS NOT PASSING THE PROOFROLL WILL BE UNDERCUT OR STABILIZED AS NEEDED. ALL BUILDING FOUNDATION SUBGRADE AREAS WILL BE PROBED AS OUTLINED IN THE GEOTECHNICAL REPORT. AREAS FOUND TO BE BE INSUFFICIENT OF PROVIDING FOUNDATION SUPPORT SHALL BE UNDERCUT AND REPLACED WITH COMPETENT MATERIAL. THE CONTRACTOR'S BASE BID SHALL INCLUDE PROVISIONS FOR ADDRESSING THESE REQUIREMENTS.

FROM NODE	INVERT	TO NODE	INVERT	LENGTH (FT)	DIAMETER (IN)	SLOPE (%)	Q10 (CFS)	QCAP (CFS)	VELOCITY (FPS)
AI #1	290.75	EXIST. CI	290.50	51	15	0.50	2.98	4.57	2.43
CI #1	291.70	CI #2	291.23	95	12	0.50	0.95	2.52	2.18
DOWNSPOUT	294.00	CI #2	291.56	31	10	8.00	0.27	4.44	7.03
CI #2	291.23	CI #3	290.21	68	12	1.50	1.63	4.36	2.09
CI #4	290.75	CI #3	290.21	109	12	0.50	1.77	2.52	2.27
CI #3	289.96	JB #1	289.81±	28	15	0.50	4.22	4.57	3.44



◇ NOTES:

1. ALL UNSURFACED AREAS SHALL RECEIVE 2" TOPSOIL AND SOD. WATER UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
2. ALL SLOPES 3:1 OR STEEPER SHALL HAVE SOD PEGGED IN PLACE.
3. ACCEPTABLE STORM SEWER MATERIALS:
1) REINFORCED CONCRETE PIPE
2) SPIRAL RIB METAL PIPE
3) CORRUGATED POLYETHYLENE (N–12) SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
4. THERE WILL BE NO SUBSTITUTIONS ALLOWED FOR PIPES SHOWN TO BE RCP.
5. SLOPE ON ALL ADA ACCESSIBLE ROUTES SHALL NOT EXCEED 1.50% IN THE DIRECTION OF TRAVEL AND 1.50% CROSS SLOPE. THE SLOPE WITHIN ALL ADA PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 1:50 IN ALL DIRECTIONS.
6. THE CONTRACTOR SHALL HAVE ANY RIGHT–OF–WAY MONUMENTS LOCATED BY A LICENSED SURVEYOR PRIOR TO COMMENCEMENT OF GRADING ACTIVITIES WITHIN THE RIGHT–OF–WAY. ANY MONUMENTS WHICH ARE DESTROYED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED.
7. PRIOR TO THE START OF CONSTRUCTION OF, OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OF THE DRY UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM THE ENGINEER OF RECORD AND THE OWNER/DEVELOPER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. NOTIFICATION MADE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. THE ENGINEER OF RECORD AND HIS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.
8. ALL EXISTING STRUCTURES ON–SITE INCLUDING BUT NOT LIMITED TO: BUILDING, CANOPIES, CONCRETE WALKS, ASPHALT DRIVES AND PARKING AREAS, CURBS, UTILITIES, SIGNS, CONCRETE PADS, ETC TO BE DEMOLISHED AND DISPOSED OF PROPERLY BY CONTRACTOR. ALL APPURTENANCES, FOOTINGS, UTILITIES, ETC ASSOCIATED WITH THE EXISTING BUILDINGS SHALL BE REMOVED. ALL DEMOLITION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS. ALL DISPOSAL OF ITEMS THAT ARE BEING REMOVED SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, OR FEDERAL REQUIREMENTS. THIS PLAN WAS PREPARED FROM THE PROJECT SURVEY AND SHOWS ITEMS REPRESENTED ON THE SURVEY. IT DOES NOT HOWEVER, NECESSARILY REPRESENT ALL ITEMS PRESENT IN THE FIELD. REFER TO THE DEMOLITION AND UTILITY PLANS FOR THE LIMITS OF EXISTING UTILITY REMOVAL AND RELOCATION. THE INTENT OF THESE PLANS IS TO REMOVE ALL ITEMS WHICH CONFLICT WITH THE IMPROVEMENTS. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE TO THE LEVEL NECESSARY TO INCLUDE THIS WORK IN THE BID.
9. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF UTILITIES PRIOR TO CONSTRUCTION.
10. DOWNSPOUT COLLECTION SYSTEM. ALL DOWNSPOUT LEADERS TO BE 6" UNLESS NOTED OTHERWISE ON THIS PLAN AND SHALL MAINTAIN A MINIMUM OF 1.00% SLOPE. SEE ARCH PLANS FOR ADDITIONAL DETAILS.
11. TRANSITION FROM FLUSH CURB TO 6" CURB WITHIN 2' OF CURBCUT.
12. CONTRACTOR SHALL ADJUST TOPS OF MANHOLES, CLEANOUTS, VALVES, ETC. TO MATCH FINAL GRADE.
13. CONTRACTOR SHALL SAWCUT EXISTING PAVEMENT AS SHOWN TO ALLOW FOR A CLEAN, STRAIGHT JOINT BETWEEN OLD AND NEW SURFACES. CONTRACTOR TO REMOVE ALL PAVEMENT, BASE MATERIALS, CURBING, ETC. WITHIN SAWCUT LIMITS OF CONSTRUCTION.
14. CONNECT TO EXISTING CURB AND GUTTER AND/OR SIDEWALK. MATCH EXISTING IN GRADE, TYPE & ALIGNMENT.
15. CONSTRUCT NEW STORM DRAIN MANHOLE OVER TOP OF EXISTING 42" CMP AND CONNECT NEW STORM SEWER LINE.
16. 4" PLANTER DRAIN @ 1.00% (MIN) SLOPE. SEE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION ON 4" PLANTER DRAINS.
17. REMOVE EXISTING FLARED END SECTION (FES) AND CONSTRUCT NEW SPECIAL HEADWALL ON END OF EXISTING 42" CMP. SEE DETAILS FOR ADDITIONAL INFORMATION.

CAUTION – NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT 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 CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES, APPURTENANCES AND IMPROVEMENTS WHICH CONFLICT WITH THE IMPROVEMENTS SHOWN BY THESE PLANS.

SITE NUMBER:	13006
BASE MODEL:	2018 PROTOTYPE
ASSET TYPE:	COMPANY
CLASSIFICATION:	NEW
OWNER:	COMPANY
BASE VERSION:	2018
UPGRADE CLASSIFICATION:	COMPANY NEW BUILD
PROJECT YEAR:	2018
FURNITURE PACKAGE:	XXX
DESIGN BULLETINS:	–

CARLSON
CONSULTING
ENGINEERS, INC.
7068 LEDGESTONE COMMONS
BARTLETT, TENNESSEE 38133
PH. (901) 384-0404 • FX. (901) 384-0710
AR CORPORATION #397

811
Know what's **below.**
Call before you dig.
3 business days prior to excavation:

PROJECT TYPE: 2018 CIVIL PROTOTYPE

Wendy's
4204 E. JOHNSON AVE.
JONESBORO, AR 72401

REV.	DATE	DESCRIPTION

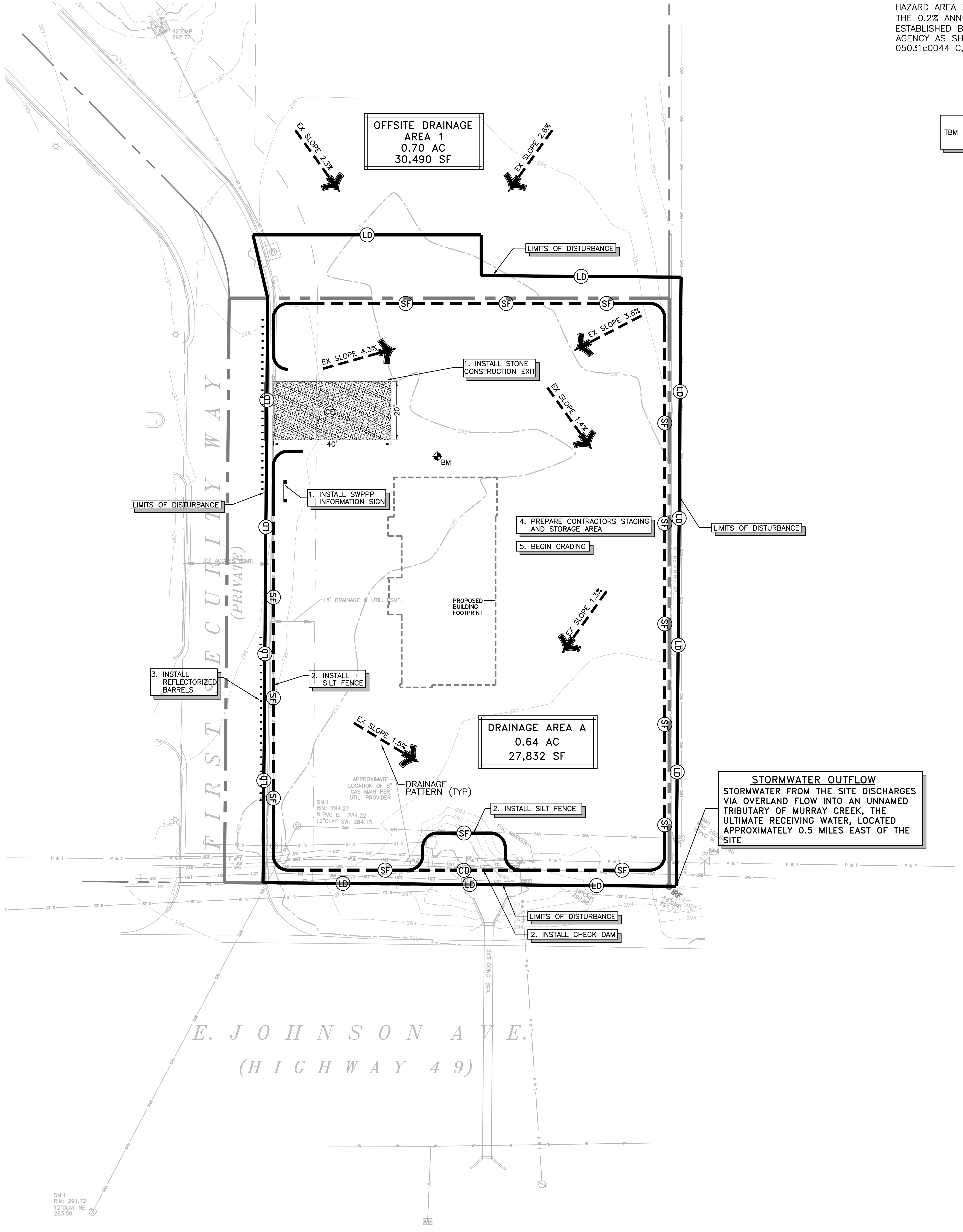
ISSUE DATE:	3/1/19
PROJECT NUMBER:	N/A
DRAWN BY:	TGH
CHECKED BY:	DLC

REGISTERED PROFESSIONAL ENGINEER No. 13316 JOSEPH PARSLEY
3/12/19

SHEET NAME
GRADING PLAN

SHEET NUMBER
C3.0

EROSION & SEDIMENTATION CONTROL PLAN/SITE MAP, SHEET 1 OF 4, MUST BE LOCATED ON-SITE.



STORMWATER OUTFLOW

STORMWATER FROM THE SITE DISCHARGES VIA OVERLAND FLOW INTO AN UNNAMED TRIBUTARY OF MURRAY CREEK, THE ULTIMATE RECEIVING WATER, LOCATED APPROXIMATELY 0.5 MILES EAST OF THE SITE

THE SUBJECT PROPERTY IS LOCATED IN SPECIAL FLOOD HAZARD AREA ZONE "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS PER FLOOD LINES ESTABLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY AS SHOWN ON FLOOD INSURANCE RATE MAP NUMBER 05031c0044 C, DATED: SEPTEMBER 27, 1991.

PROJECT BENCHMARKS

TBM #1 – MAG NAIL SET
ELEV: 295.50

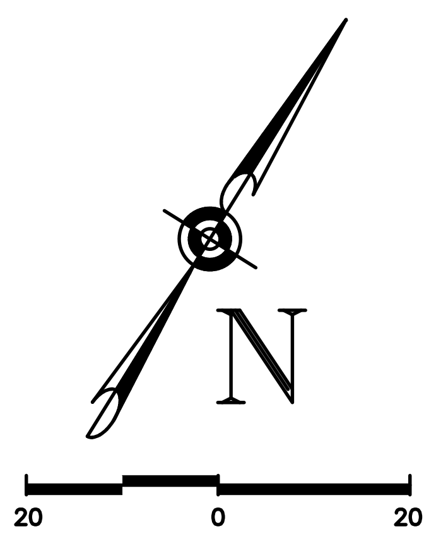
DEVELOPER:
MERITAGE HOSPITALITY GROUP, INC
45 OTTAWA AVE SW, SUITE 600
GRAND RAPIDS, MI 49503
(616) 591-9271

SITE OPERATOR/GENERAL CONTRACTOR: ____________

SUPERINTENDENT: ____________

ACREAGE SUMMARY

TOTAL PROJECT AREA	0.70 ACRES
ON-SITE DISTURBED AREA	0.64 ACRES
OFF-SITE DISTURBED AREA	0.06 ACRES
TOTAL DISTURBED AREA	0.70 ACRES



LEGEND

- (LD) – LIMITS OF DISTURBANCE
- (SF) – SILT FENCE
- (CD) – STONE CHECK DAM
- ▨ (CE) – STONE CONSTRUCTION EXIT
- – – → – DRAINAGE PATTERN
- ⊓ – SWPPP INFORMATION SIGN

TEMPORARY SEEDING:

- SEED: MIXTURE 70% RYEGRASS/30% WINTER WHEAT – 4 LB / 1,000 SQ FT

PERMANENT STABILIZATION:

- REFER TO PLANTING PLAN, THIS SET.

–CAUTION NOTICE TO CONTRACTOR–

IF PROPERLY IMPLEMENTED, THIS PLAN WILL PROVIDE AN EFFECTIVE MEANS FOR CONTROLLING EROSION. HOWEVER, IT IS ACKNOWLEDGED THAT NO ONE PLAN CAN BE PREPARED THAT WILL DEPICT ALL POSSIBLE CONTROL MEASURES NECESSARY FOR VARIOUS STAGES OF CONSTRUCTION. THE CONTRACTOR SHALL INCLUDE IN THE BASE BID ADEQUATE FUNDS TO PROVIDE ALL EROSION CONTROL MEASURES NECESSARY TO COMPLY WITH CODES FOR THE DURATION OF THE CONSTRUCTION PROJECT. ALL ITEMS AND WORK SHOWN ON THESE PLANS AND ALL MAINTENANCE THROUGHOUT THE DURATION OF CONSTRUCTION SHALL BE INCLUDED IN THE BASE BID.

SPECIFICATIONS REQUIREMENTS

THE REQUIREMENTS SHOWN ON THIS PLAN ARE SUPPLEMENTED BY THE SWPPP CONTAINED WITHIN THE PROJECT SPECIFICATIONS. IN CASE OF CONFLICTS BETWEEN THE PLANS, SWPPP SPECIFICATIONS AND THE ACTUAL GENERAL PERMIT, THE MOST STRINGENT REQUIREMENTS SHALL APPLY.

LIMITS OF DISTURBANCE

CONTRACTOR TO LIMIT DISTURBANCE OF SITE IN STRICT ACCORDANCE WITH THE EROSION CONTROL SEQUENCING SHOWN ON THIS PLAN. NO UNNECESSARY OR IMPROPERLY SEQUENCED CLEARING AND/OR GRADING SHALL BE PERMITTED.

SILT FENCE LOCATION

SILT FENCE LOCATION SHOWN ON PLAN HAS BEEN OFFSET FOR CLARITY. WHERE SILT FENCE IS SHOWN ADJACENT TO LIMITS OF DISTURBANCE IT IS THE INTENTION THAT SILT FENCE BE INSTALLED ALONG LIMITS OF DISTURBANCE (NO DISTURBANCE BEYOND SILT FENCE). SILT FENCE FENCE SHALL FOLLOW CONTOURS.

BMP NOTICE

THE CONTRACTOR MUST CONTINUALLY INSPECT BMP'S TO ENSURE ANY PONDING DOES NOT PRESENT HAZARDS TO THE PUBLIC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MODIFY BMP'S AS NEEDED TO PROTECT THE PUBLIC AT ALL TIMES AND PROVIDE PROTECTION FROM SEDIMENT RELEASE.

CONTRACTOR INSPECTION REQUIREMENTS

CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING TWICE-WEEKLY INSPECTIONS AS REQUIRED BY THE STATE GENERAL PERMIT. PERSONNEL PERFORMING THE INSPECTIONS SHALL BE PROPERLY QUAILIFIED. REFER TO THE STATE GENERAL PERMIT AND 02370 SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

BEST MANAGEMENT PRACTICES SEQUENCE

NOTE: UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAY DOWN, PORTA-POTTY, CONCRETE WASHOUT, MASON'S AREA, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC, IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS. IN ADDITION, NOTE ALL AREAS WHERE FILL IS IMPORTED FROM OR SOIL IS EXPORTED TO ON THE SITE MAPS.

PHASE I – EROSION CONTROL SEQUENCING

1. *INSTALL STONE CONSTRUCTION EXIT AND SWPPP INFORMATION SIGN.*
2. *INSTALL SILT FENCE AND CHECK DAMWHERE SHOWN. BMPS MUST BE IN* PLACE PRIOR TO SUBGRADE DISTURBING ACTIVITIES.
3. INSTALL REFLECTORIZED BARRELS AS NEEDED TO CONTROL SITE ACCESS.
4. PREPARE CONTRACTOR TEMPORARY STAGING AND STORAGE AREA.
5. BEGIN GRADING ACTIVITIES.
6. SEQUENCE GRADING ACTIVITIES TO MINIMIZE EXPOSED AREAS.

PHASE II – EROSION CONTROL SEQUENCING

1. TEMPORARILY STABILIZE, THROUGHOUT CONSTRUCTION, DENUDED AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE. ALL AREAS AT FINAL GRADE MUST BE PAVED OR STABILIZED WITH SPECIFIED GROUNDCOVER PER LANDSCAPE PLAN WITHIN 14 DAYS AFTER COMPLETION OF WORK IN THESE AREAS.
2. PREPARE/MAINTAIN TEMPORARY STAGING AND STORAGE AREA AS NEEDED.
3. *BEGIN INSTALLATION OF STORMWATER PIPES WITH INLET PROTECTION AS SOON AS POSSIBLE FOR USE AS SEDIMENT TRAPS.*
4. INSTALL OFF-SITE PIPE AND INLET TO MINIMIZE OFF-SITE RUN-ON.
5. BEGIN BUILDING CONSTRUCTION AND UTILITY INSTALLATION.
6. COMPLETE ALL OTHER GRADING ACTIVITIES AT THIS TIME.
7. BEGIN PAVING THE SITE.
8. *IMMEDIATELY INSTALL PERMANENT GROUNDCOVER, FERTILIZE, MULCH, AND WATER AREAS IN ACCORDANCE WITH THE PLANTING PLAN AND SITEWORK SPECIFICATIONS.*

NOTE: THE GENERAL CONTRACTOR MAY COMPLETE CONSTRUCTION-RELATED ACTIVITIES CONCURRENTLY ONLY IF ALL PRECEDING BMPS HAVE BEEN COMPLETELY INSTALLED. BMP-RELATED STEPS IN THE ABOVE SEQUENCE ARE ITALICIZED FOR CLARITY.

CAUTION – NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT 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 CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE IMPROVEMENTS SHOWN BY THESE PLANS.

SITE NUMBER:	13006
BASE MODEL:	2018 PROTOTYPE
ASSET TYPE:	COMPANY
CLASSIFICATION:	NEW
OWNER:	COMPANY
BASE VERSION:	2018
UPGRADE CLASSIFICATION:	COMPANY NEW BUILD
PROJECT YEAR:	2018
FURNITURE PACKAGE:	XXX
DESIGN BULLETINS:	–

CARLSON
CONSULTING
ENGINEERS, INC.
7068 LEDGESTONE COMMONS
BARTLETT, TENNESSEE 38133
PH. (901) 384-0404 • FX. (901) 384-0710
AR CORPORATION #397

811
Know what's **below.**
Call before you dig.
3 business days prior to excavation:

PROJECT TYPE:	2018 CIVIL PROTOTYPE

4204 E. JOHNSON AVE.
JONESBORO, AR 72401

REV.	DATE	DESCRIPTION

ISSUE DATE:	3/1/19
PROJECT NUMBER:	N/A
DRAWN BY:	TGH
CHECKED BY:	DLC

No. 13316
JOSEPH PARSLEY
3/12/19

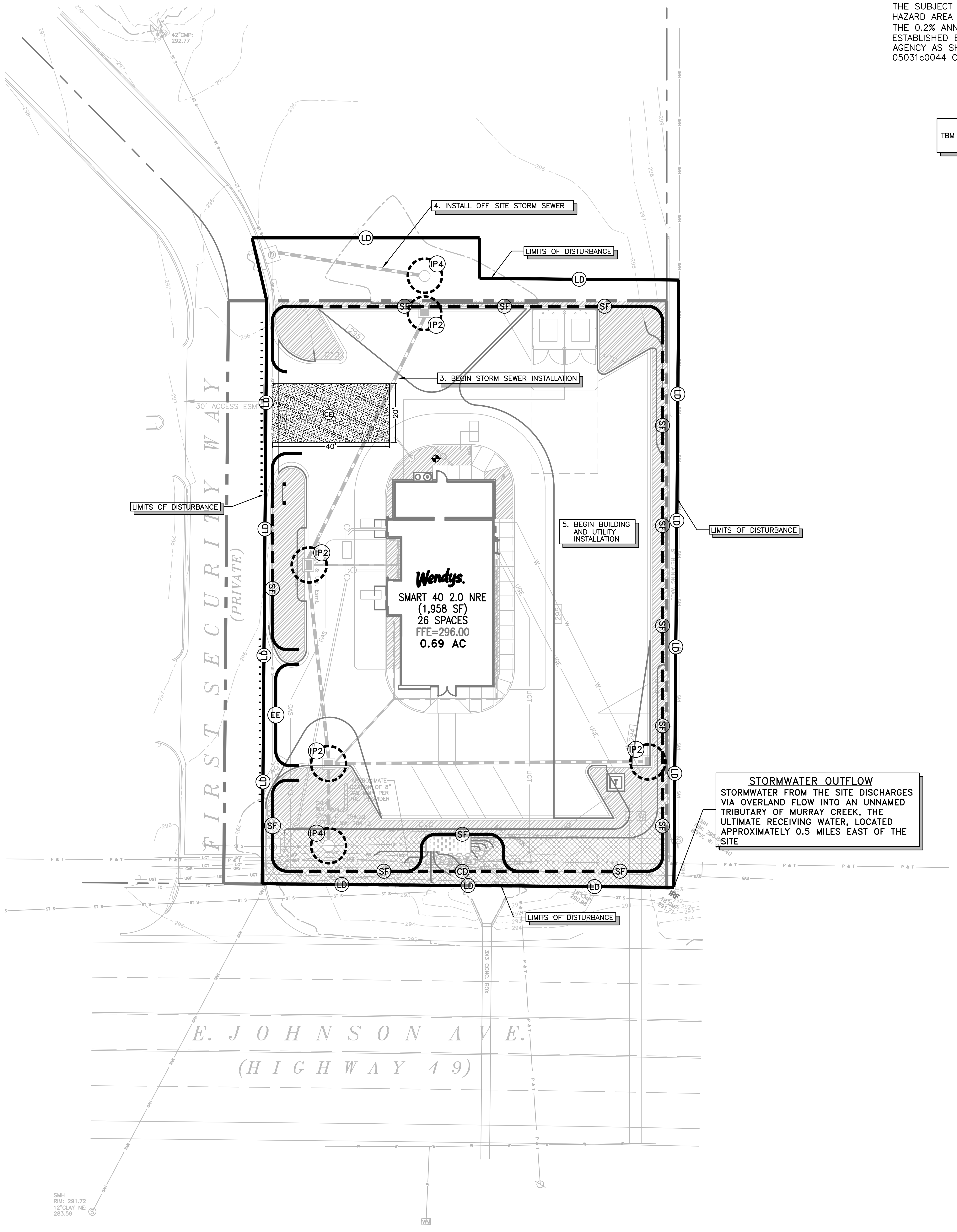
SHEET NAME

EROSION CONTROL PLAN - PHASE I

SHEET NUMBER

C3.1

EROSION & SEDIMENTATION CONTROL PLAN/SITE MAP, SHEET 2 OF 4, MUST BE LOCATED ON-SITE.



STORMWATER OUTFLOW

STORMWATER FROM THE SITE DISCHARGES VIA OVERLAND FLOW INTO AN UNNAMED TRIBUTARY OF MURRAY CREEK, THE ULTIMATE RECEIVING WATER, LOCATED APPROXIMATELY 0.5 MILES EAST OF THE SITE

THE SUBJECT PROPERTY IS LOCATED IN SPECIAL FLOOD HAZARD AREA ZONE "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS PER FLOOD LINES ESTABLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY AS SHOWN ON FLOOD INSURANCE RATE MAP NUMBER 05031c0044 C, DATED: SEPTEMBER 27, 1991.

PROJECT BENCHMARKS

TBM #1 – MAG NAIL SET
ELEV: 295.50

DEVELOPER:
MERITAGE HOSPITALITY GROUP, INC
45 OTTAWA AVE SW, SUITE 600
GRAND RAPIDS, MI 49503
(616) 591–9271

SITE OPERATOR/GENERAL CONTRACTOR: ____________________

SUPERINTENDENT: ____________________

ACREAGE SUMMARY

TOTAL PROJECT AREA	0.70 ACRES
ON–SITE DISTURBED AREA	0.64 ACRES
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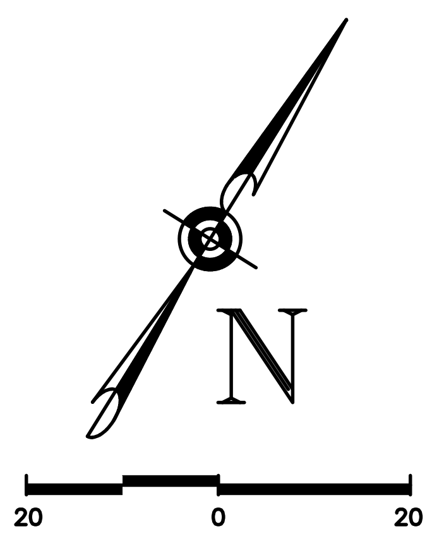

LEGEND

SF	– SEDIMENTATION/SILT FENCE
EE	– EROSION EELS
LD	– LIMITS OF DISTURBANCE
CD	– STONE CHECK DAM
CE	– STONE CONSTRUCTION EXIT
▨	– PLANTING BED
▩	– SODDED AREA
IP4	– SILT FENCE INLET PROTECTION
IP2	– CURB INLET PROTECTION
– – – →	– DRAINAGE PATTERN
· · · · · ·	– REFLECTORIZED BARRELS
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TEMPORARY SEEDING:
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SITE NUMBER:	13006
BASE MODEL:	2018 PROTOTYPE
ASSET TYPE:	COMPANY
CLASSIFICATION:	NEW
OWNER:	COMPANY
BASE VERSION:	2018
UPGRADE CLASSIFICATION:	COMPANY NEW BUILD
PROJECT YEAR:	2018
FURNITURE PACKAGE:	XXX
DESIGN BULLETINS:	–

CARLSON
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ENGINEERS, INC.

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3 business days prior to excavation:

PROJECT TYPE:	2018 CIVIL PROTOTYPE

4204 E. JOHNSON AVE.
JONESBORO, AR 72401

REV.	DATE	DESCRIPTION

ISSUE DATE:	3/1/19
PROJECT NUMBER:	N/A
DRAWN BY:	TGH
CHECKED BY:	DLC

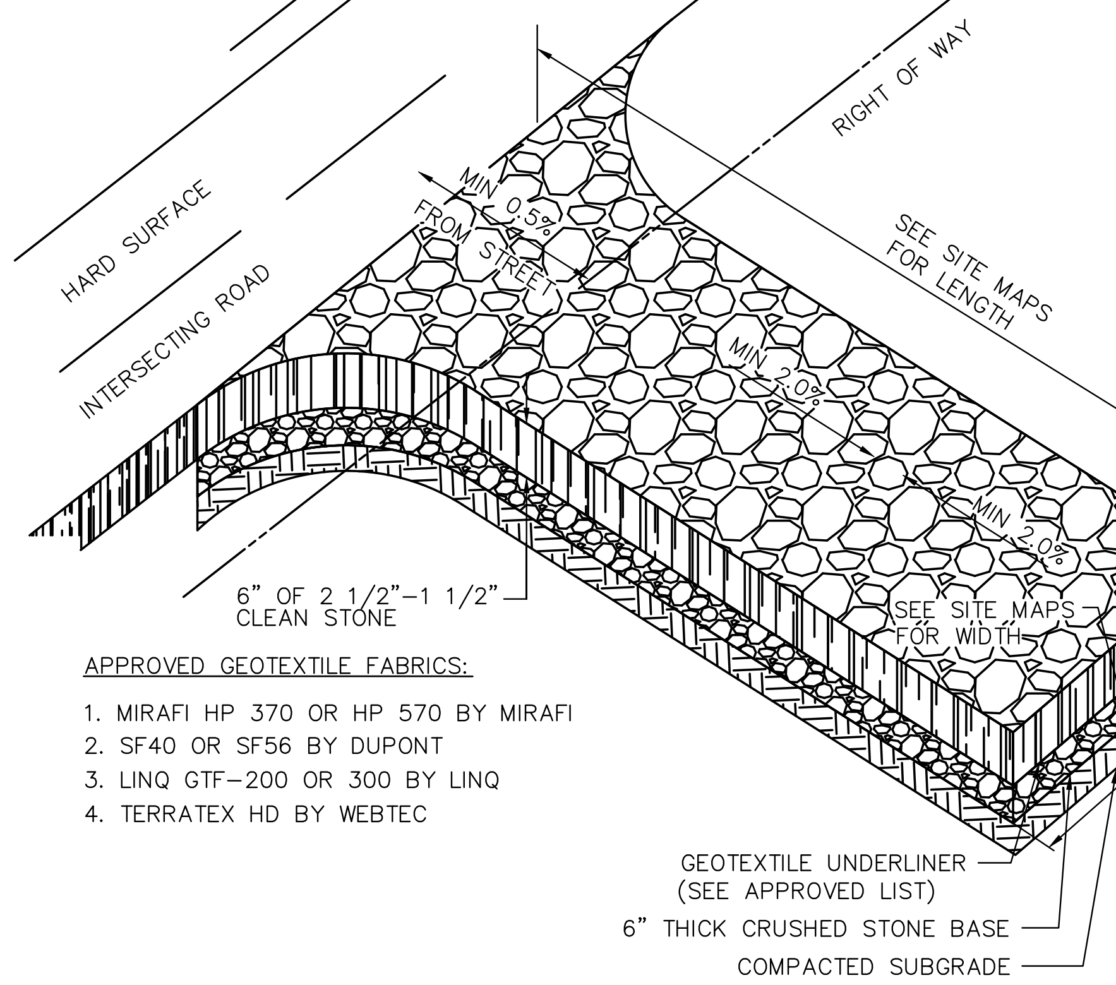
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 13316
JOSEPH PARSLEY
3/12/19

SHEET NAME

EROSION CONTROL PLAN - PHASE II

SHEET NUMBER

C3.2



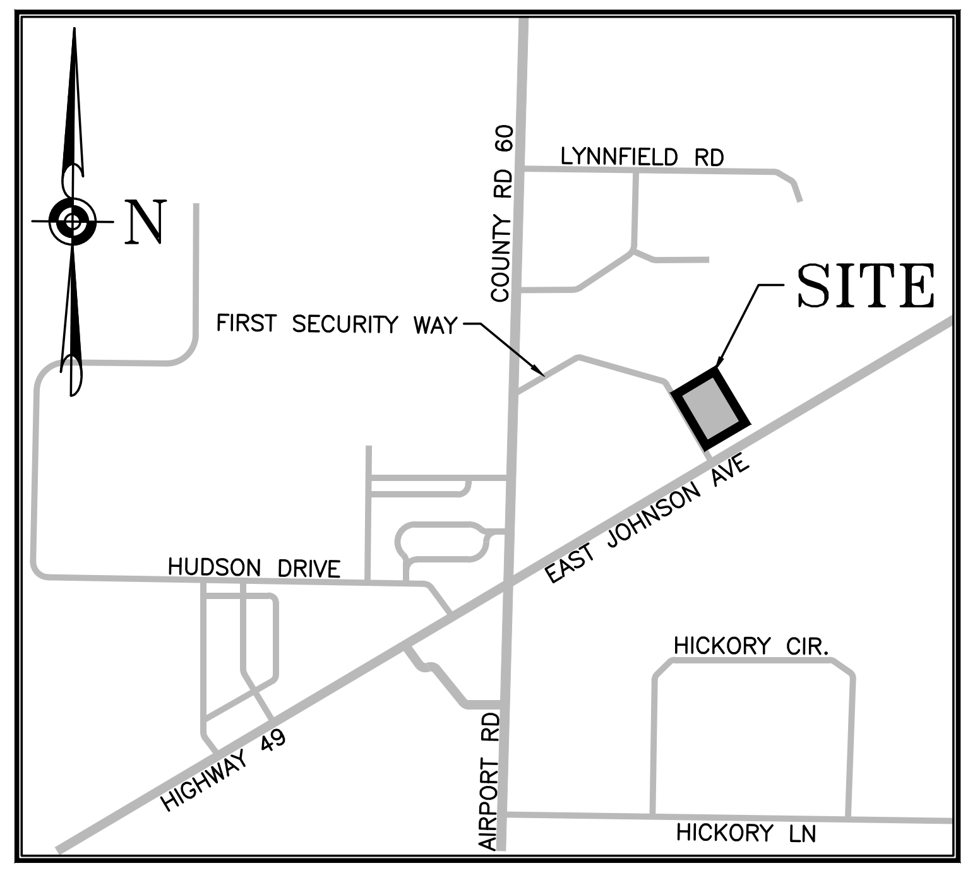
APPROVED GEOTEXTILE FABRICS:

1. MIRAFI HP 370 OR HP 570 BY MIRAFI
2. SF40 OR SF56 BY DUPONT
3. LINQ GTF–200 OR 300 BY LINQ
4. TERRATEX HD BY WEBTEC

PLAN

CONSTRUCTION EXIT (CE)
N.T.S.

CONSTRUCTION EXIT



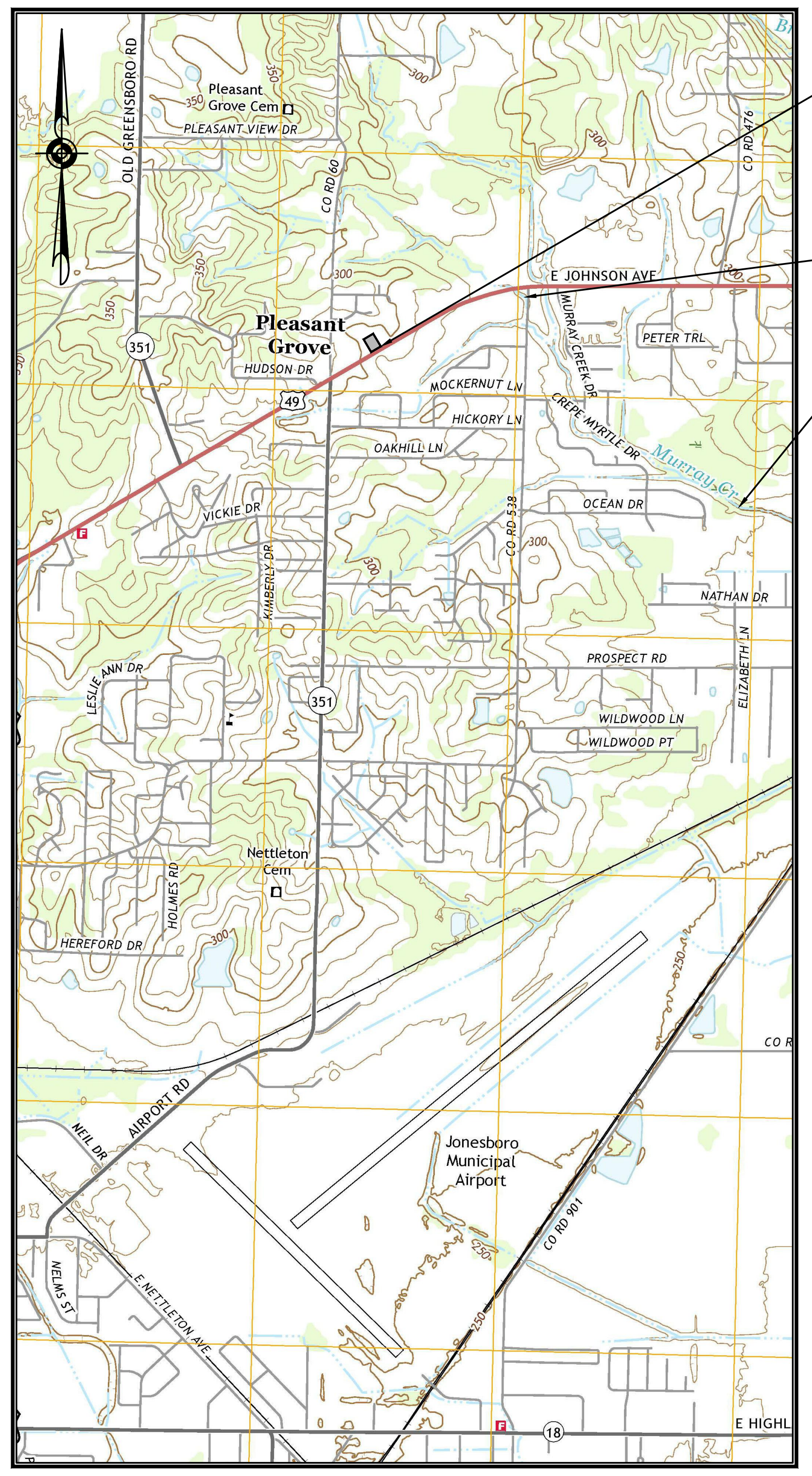
VICINITY MAP
SCALE=NTS

VICINITY MAP

EROSION CONTROL DETAILS, SHEET 3 OF 4, MUST BE LOCATED ON-SITE.

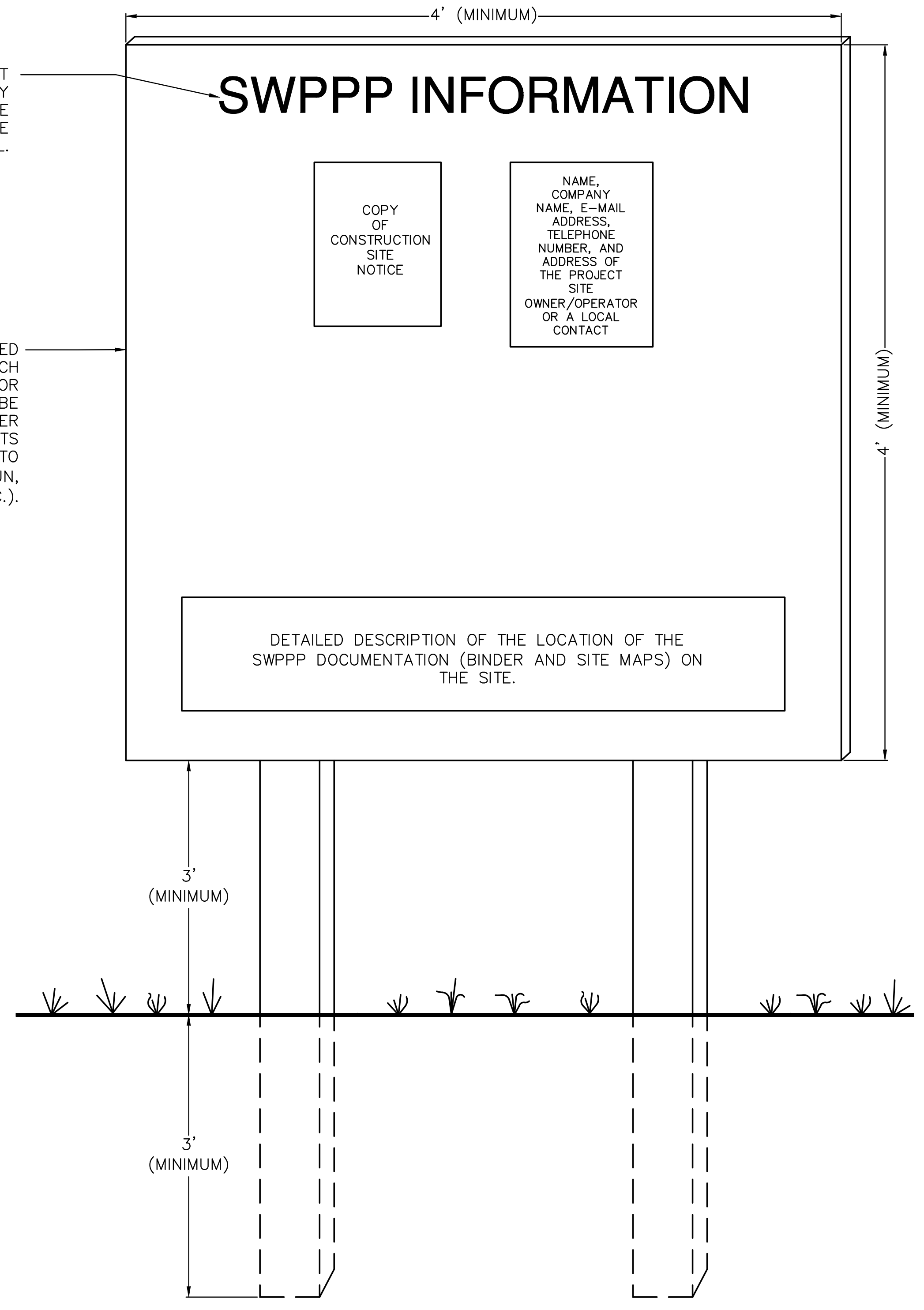
STORMWATER OUTFLOW

STORMWATER FROM THE SITE DISCHARGES VIA OVERLAND FLOW INTO AN UNNAMED TRIBUTARY OF MURRAY CREEK, THE ULTIMATE RECEIVING WATER, LOCATED APPROXIMATELY 0.5 MILES EAST OF THE SITE



USGS QUADRANGLE MAP
SCALE=1"=2,000 FEET

QUADRANGLE MAP



"SWPPP INFORMATION" MUST BE DISPLAYED PROMINENTLY ACROSS THE TOP OF THE SIGN, AS SHOWN IN THE DETAIL.

SIGN TO BE CONSTRUCTED OF A RIGID MATERIAL, SUCH AS PLYWOOD OR OUTDOOR SIGN BOARD. SIGN MUST BE CONSTRUCTED IN A MANNER TO PROTECT DOCUMENTS FROM DAMAGE DUE TO WEATHER (WIND, SUN, MOISTURE, ETC.).

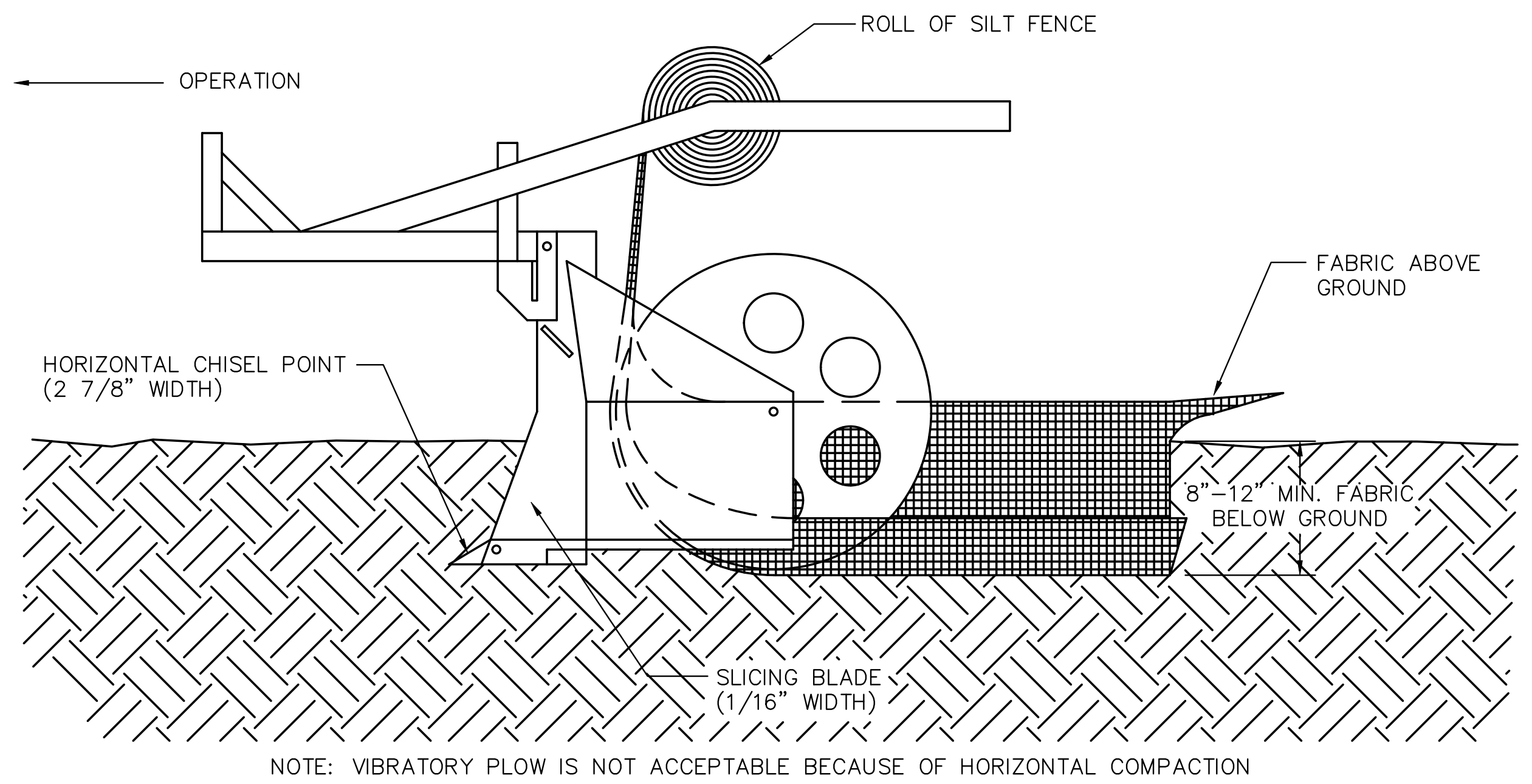
SWPPP INFORMATION SIGN (SS)
N.T.S.

NOTES:

1) THE SWPPP INFORMATION SIGN MUST BE LOCATED NEAR THE CONSTRUCTION EXIT OF THE SITE, SUCH THAT IT IS ACCESSIBLE AND VIEWABLE BY THE GENERAL PUBLIC, BUT NOT OBSTRUCTING VIEWS AS TO CAUSE A SAFETY HAZARD.
2) ALL POSTED DOCUMENTS MUST BE MAINTAINED IN A CLEARLY READABLE CONDITION AT ALL TIMES THROUGHOUT CONSTRUCTION.
3) CONTRACTOR SHALL POST OTHER STORM WATER AND/OR EROSION AND SEDIMENT CONTROL RELATED PERMITS ON THE SIGN AS REQUIRED BY THE GOVERNING AGENCY.
4) SIGN SHALL BE LOCATED OUTSIDE OF PUBLIC RIGHT–OF–WAY AND EASEMENTS UNLESS APPROVED BY THE GOVERNING AGENCY.
5) CONTRACTOR IS RESPONSIBLE FOR ENSURING STABILITY OF THE SWPPP INFORMATION SIGN.

SWPPP INFORMATION SIGN (SS)
N.T.S.

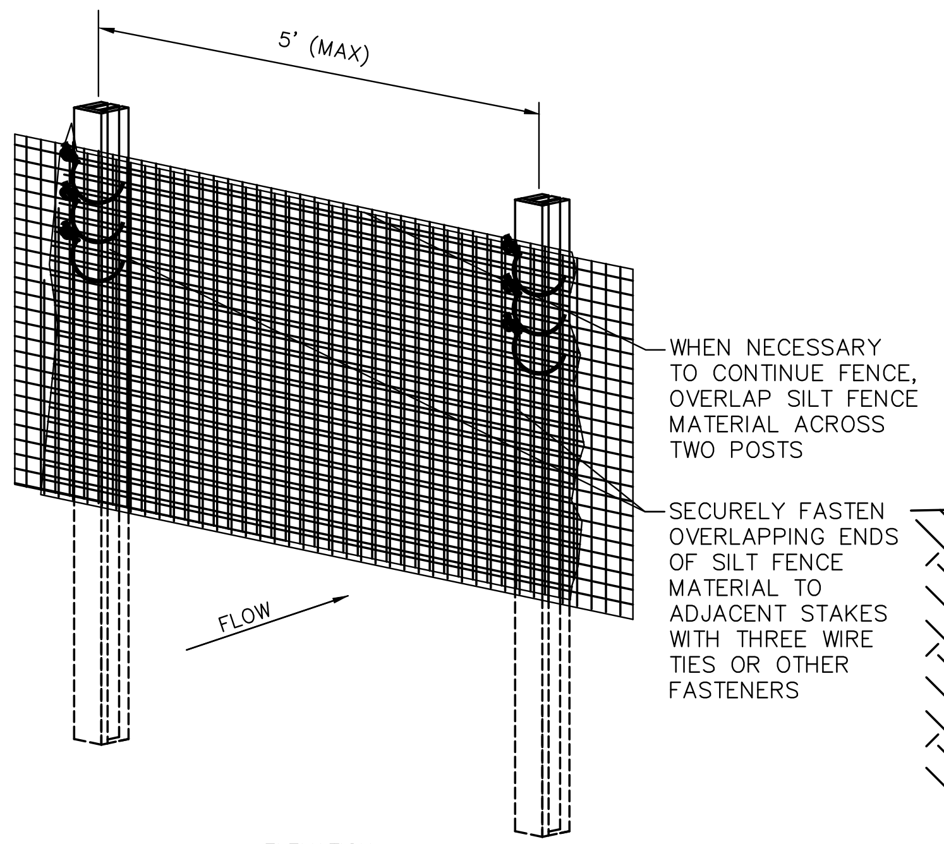
SWPPP INFORMATION SIGN



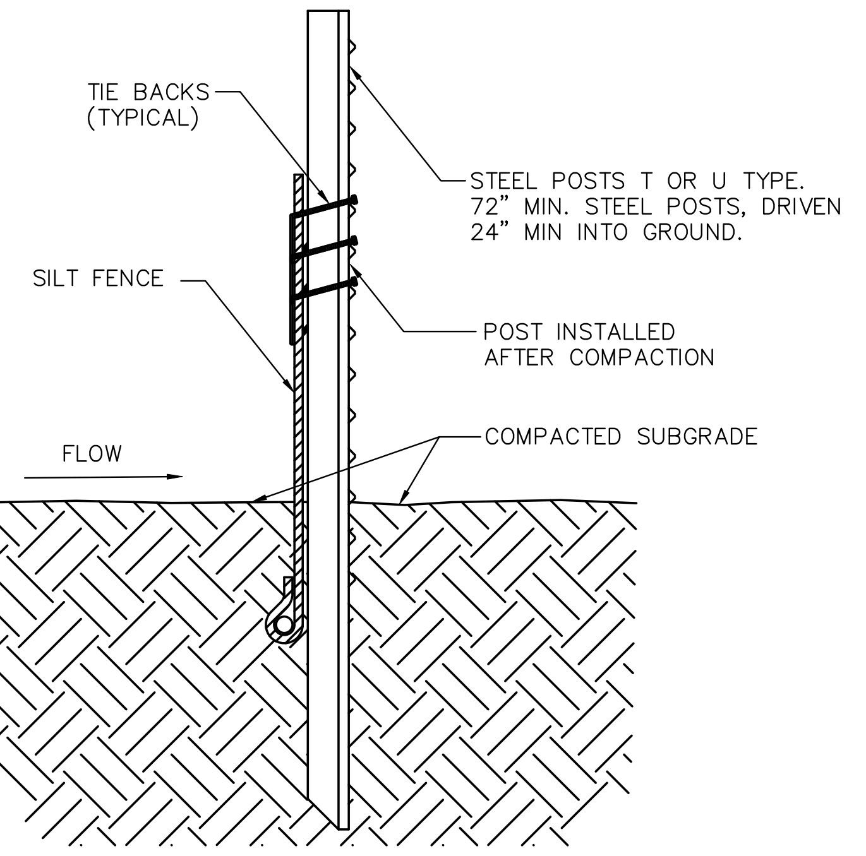
NOTE: VIBRATORY PLOW IS NOT ACCEPTABLE BECAUSE OF HORIZONTAL COMPACTION

POSTS: STEEL T OR U TYPE.

FABRIC: IN ACCORDANCE WITH ASTM D 6461 LATEST EDITION.



ELEVATION



COMPLETED INSTALLATION

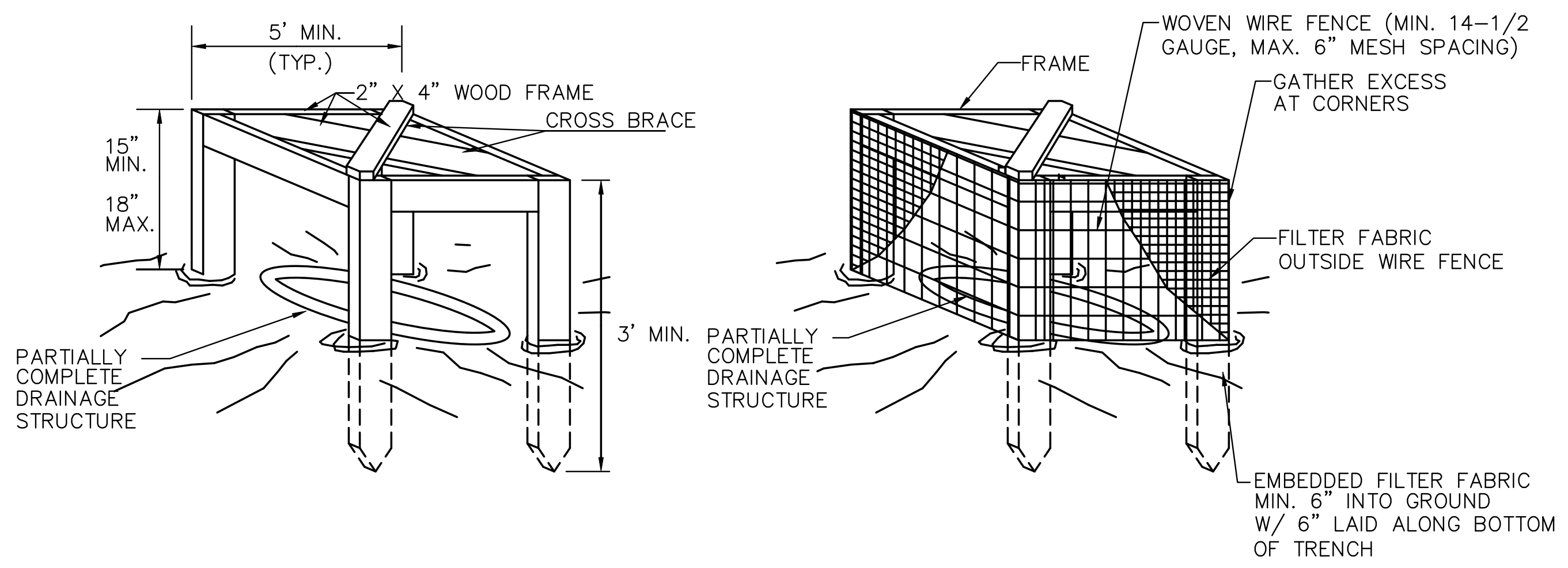
SPECIFICATIONS FOR STATIC SLICING METHOD FOR SILT FENCE INSTALLATION

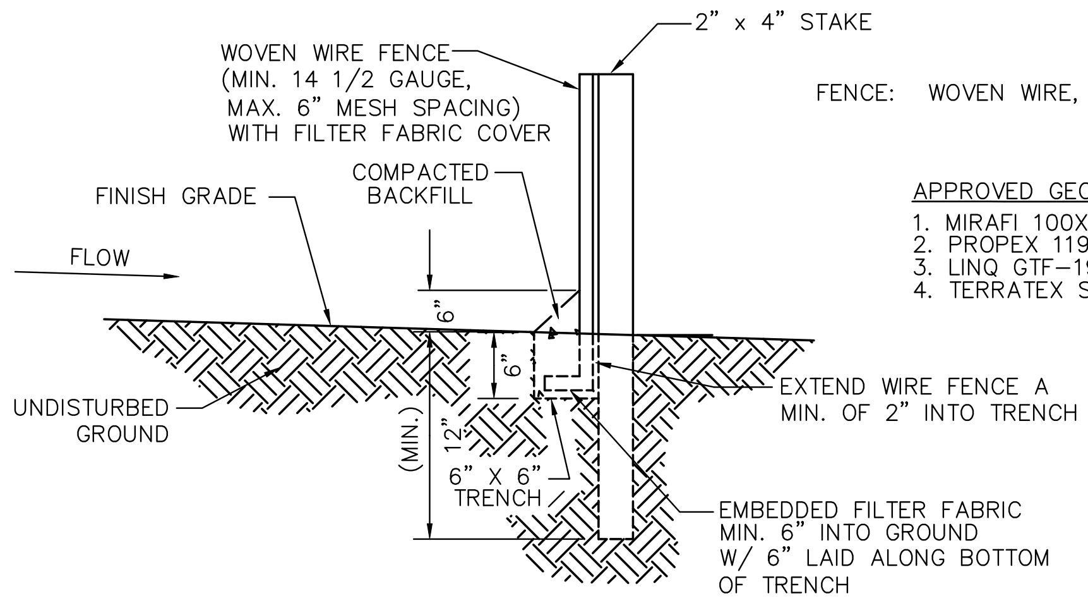
STATIC SLICING SHALL BE USED TO ANCHOR SILT FENCE FABRIC IN ORDER TO NOT USE THE WIRE BACKING.

1. SILT FENCE SHALL BE INSTALLED PER ASTM D–6462–03 LATEST EDITION.
2. INSTALL POSTS AT A MAXIMUM OF 5'–0" APART.
3. INSTALL POSTS AT A MINIMUM DEPTH OF 24" ON THE DOWNSTREAM SIDE OF THE SILT FENCE, AND AS CLOSE AS POSSIBLE TO THE FABRIC, ENABLING POSTS TO SUPPORT UPSTREAM WATER PRESSURE ON THE FABRIC.
4. INSTALL POSTS WITH THE NIPPLES FACING AWAY FROM THE SILT FENCE FABRIC.
5. ATTACH THE FABRIC TO EACH POST WITH THREE TIES, ALL SPACED WITHIN THE TOP 8" OF THE FABRIC. ATTACH EACH TIE DIAGONALLY 45 DEGREES THROUGH THE FABRIC, WITH EACH PUNCTURE AT LEAST 1" VERTICALLY APART. ALSO, EACH TIE SHOULD BE POSITIONED TO HANG ON A POST NIPPLE WHEN TIGHTENED TO PREVENT SAGGING.
6. WRAP APPROXIMATELY 6" OF FABRIC AROUND THE END POSTS AND SECURE WITH 3 TIES.
7. WHEN NECESSARY TO CONTINUE FENCE, OVERLAP SILT FENCE MATERIAL ACROSS TWO POSTS.
8. NO MORE THAN 24" OF A 36" FABRIC IS ALLOWED ABOVE GROUND LEVEL.
9. DRIVE POST A MINIMUM OF 24" INTO THE GROUND.
10. THE INSTALLATION SHOULD BE CHECKED AND CORRECTED FOR ANY DEVIATIONS BEFORE COMPACTION. USE A FLAT–BLADED SHOVEL TO TUCK FABRIC DEEPER INTO THE SLIT IF NECESSARY.
11. COMPACT THE SOIL IMMEDIATELY NEXT TO THE SILT FENCE FABRIC WITH THE FRONT WHEEL OF THE TRACTOR, SKID STEER, OR ROLLER EXERTING AT LEAST 60 POUNDS PER SQ. INCH. COMPACT THE UPSTREAM SIDE FIRST. COMPACT EACH SIDE TWICE FOR A TOTAL OF FOUR TRIPS.
12. MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE SWPPP. DEPTH OF ACCUMULATED SEDIMENTS MAY NOT EXCEED ONE–HALF THE HEIGHT OF THE FENCE. MAINTENANCE CLEANOUT MUST BE CONDUCTED REGULARLY TO PREVENT ACCUMULATED SEDIMENTS FROM REACHING ONE–HALF THE HEIGHT OF THE FENCE FABRIC ABOVE GRADE.
13. WHEN TWO SECTIONS OF SILT FENCE MATERIAL ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED A MINIMUM OF 60"ACROSS TWO POSTS, AS SHOWN.
14. ADD POST CAPS AS NEEDED BASED ON SITE CONDITIONS AND APPLICABLE AGENCY REQUIREMENTS.

NON–WIRE BACKED SLICING METHOD FOR SILT FENCE INSTALLATION (SF)
N.T.S.

SEDIMENTATION/SILT FENCE





FENCE: WOVEN WIRE, 14–1/2 GA. 6" MAX. MESH OPENING

APPROVED GEOTEXTILE FABRICS:

1. MIRAFI 100X BY MIRAFI
2. PROPEX 1198
3. LINQ GTF–190 BY LINQ
4. TERRATEX SC BY WEBTEC

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO 2" X 4" WOOD STAKES WITH STAPLES.
2. FILTER FABRIC TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 12" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE EROSION CONTROL PLAN. COLLECTED MATERIAL SHALL BE REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
5. ALL SILT FENCE SHALL INCLUDE WIRE SUPPORT UNLESS INDICATED OTHERWISE
6. THIS INLET PROTECTION IS TO BE USED AROUND ALL INLETS AND JUNCTION BOXES DURING THE INTERMEDIATE PHASES OF CONSTRUCTION WHERE FINAL INLET PROTECTION DETAILS ARE NOT APPLICABLE DUE TO THE PARTIAL COMPLETENESS OF THE STRUCTURES.

SILT FENCE INLET PROTECTION (IP4)
N.T.S.

SILT FENCE INLET PROTECTION

SITE NUMBER: 13006
BASE MODEL: 2018 PROTOTYPE
ASSET TYPE: COMPANY
CLASSIFICATION: NEW
OWNER: COMPANY
BASE VERSION: 2018
UPGRADE CLASSIFICATION: COMPANY NEW BUILD
PROJECT YEAR: 2018
FURNITURE PACKAGE: XXX
DESIGN BULLETINS: –

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ENGINEERS, INC.
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AR CORPORATION #397

811
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3 business days prior to excavation:

PROJECT TYPE: 2018 CIVIL PROTOTYPE

Wendy's
4204 E. JOHNSON AVE.
JONESBORO, AR 72401

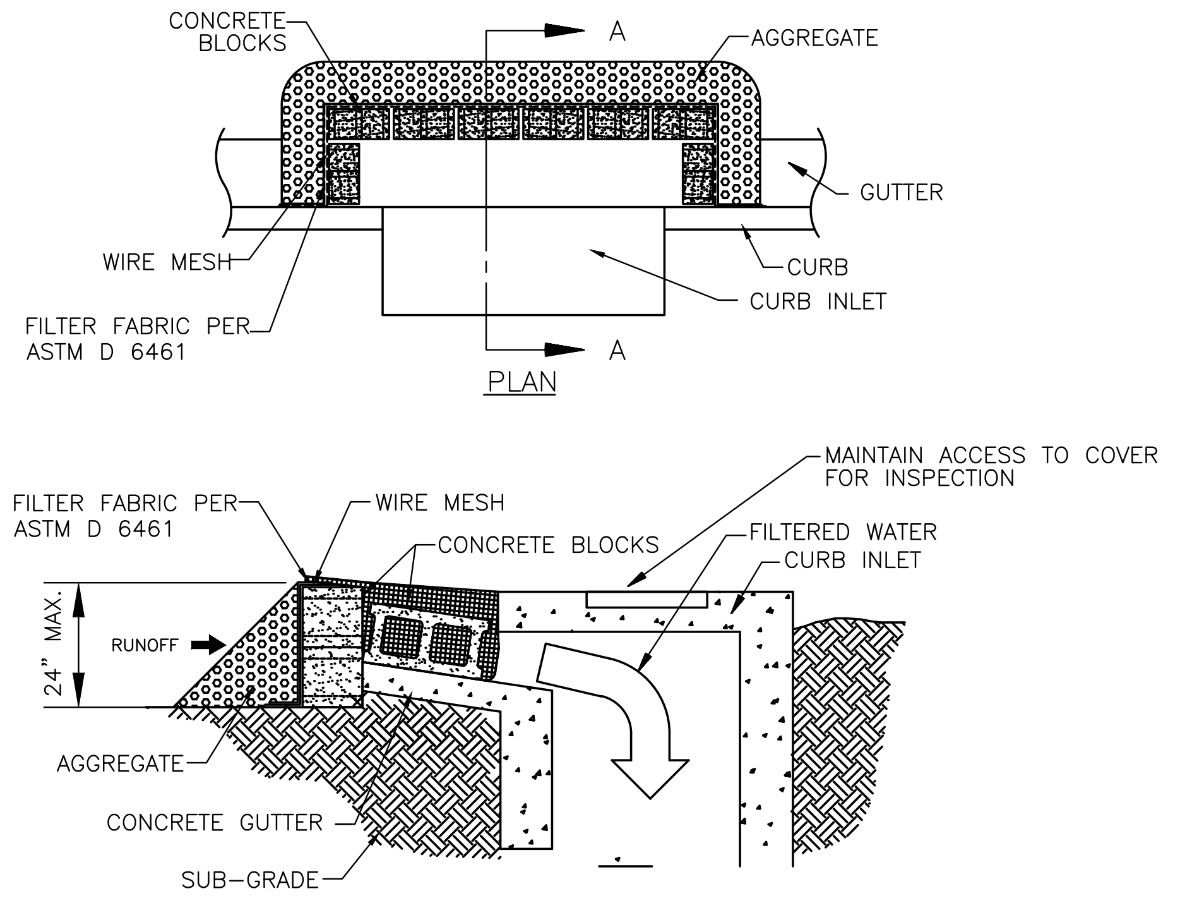
REV.	DATE	DESCRIPTION

ISSUE DATE: 3/1/19
PROJECT NUMBER: N/A
DRAWN BY: TGH
CHECKED BY: DLC

No. 13316
JOSEPH PARSLEY
3/12/19

SHEET NAME
EROSION CONTROL DETAILS

SHEET NUMBER
C3.3



(IP2) BLOCK AND AGGREGATE CURB INLET PROTECTION

N.T.S.

NOTES:

SECTION A–A

1. PLACE CONCRETE BLOCKS IN A SINGLE ROW AROUND PERIMETER OF CURB INLET ON THEIR SIDES, WITH ENDS OF ADJACENT BLOCKS ABUTTING.
2. HEIGHT OF BARRIER VARIES. USE STACKS OF 4", 8", OR 12" BLOCKS. TOP OF BARRIER MUST BE LOWER THAN TOP OF CURB ELEVATIONS ADJACENT TO INLET. MAX. HEIGHT SHALL BE 24".
3. PLACE HARDWARE CLOTH/WIRE MESH W/ MAX. 1/2" OPENINGS OVER VERTICAL FACE OF CONCRETE BLOCKS.
4. THE AGGREGATE SHALL BE 3/4" – 2" ANGULAR CLEAN STONE WHICH WILL SLOW THE FLOW OF WATER AND ALLOW IT TO FILTER THROUGH AND OVER THE MATERIAL BEFORE ENTERING THE INLET.
5. IF ROAD OR PARKING AREA IS OPEN TO PUBLIC, VERIFY SUITABILITY OF BMP WITH AGENCIES HAVING JURISDICTION AND WITH CEC.

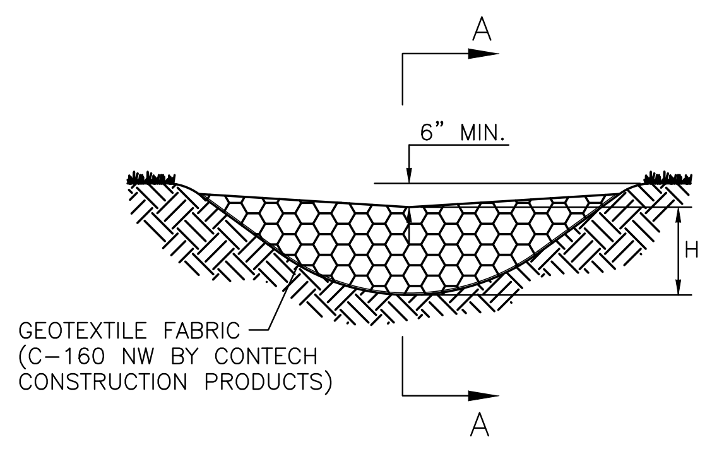
MAINTENANCE NOTES:

1. INLET PROTECTION DEVICES MUST BE INSPECTED FOR SEDIMENT ACCUMULATION WITHIN THE CATCH BASIN (IF USING INSERT–TYPE DEVICE) OR UPGRADIENT OF THE INLET.
2. REMOVAL OF SEDIMENT ACCUMULATED IN OR ADJACENT TO A STORM DRAIN INLET MUST BEGIN IMMEDIATELY UPON DISCOVERY, WITH COMPLETION OF THE ACTIVITY OCCURRING NO LATER THAN THE END OF THE FOLLOWING BUSINESS DAY.
3. INLET PROTECTION DEVICES SHALL BE INSPECTED FOR UNINTENDED BYPASS OR IMPROPER FLOW–RATES THAT MAY CAUSE DOWNSTREAM FLOODING.
4. CONTACT THE CEC FOR ALTERNATE INLET PROTECTION IF THE DESIGNED PROTECTION MAY IMPACT DOWNSTREAM BMPS, ADJACENT SLOPES, ETC., DUE TO PONDING ISSUES. ENSURE THAT NO UNDERMINING OF INLET PROTECTION DEVICES HAS OCCURRED.
5. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.

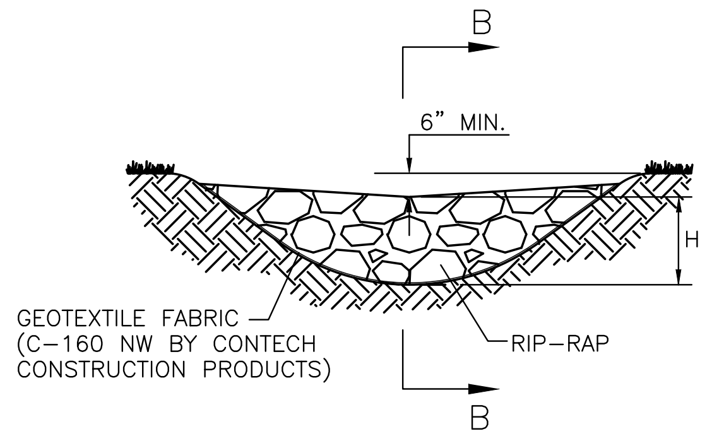
SOURCE BOX

LAST REVISED: OCTOBER 2012	CEC STANDARD DETAIL

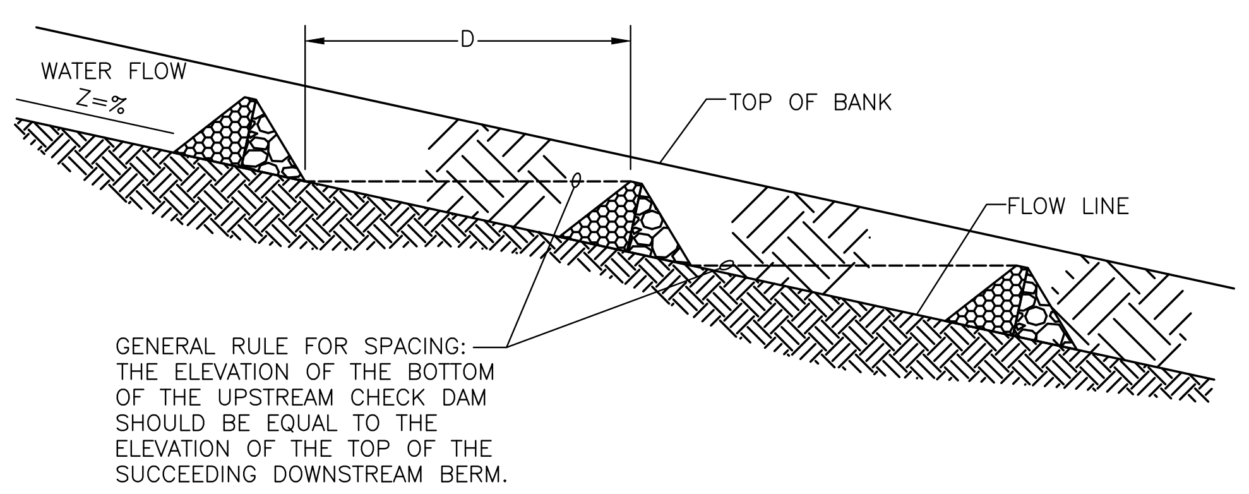
NOTE:
1. SEE SITE MAP(S) FOR LOCATION OF CHECK DAM(S).
2. IF WATER REMAINS IMPOUNDED ON UPSTREAM SIDE OF ROCK CHECK DAMS FOR MORE THAN 48 HOURS THE WATER SHALL BE PUMPED OUT THROUGH A FILTER BAG TO PROVIDE SUITABLE CONDITIONS FOR GERMINATION OF SEEDS OR TO SUSTAIN VEGETATION IN THE DITCH BOTTOM.



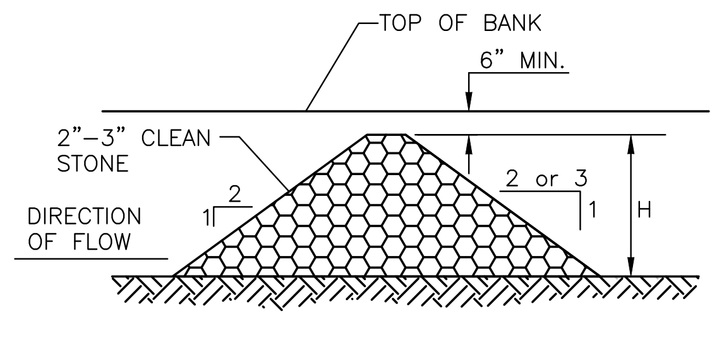
2 ACRES OR LESS OF DRAINAGE AREA
(DOWNSTREAM VIEW)



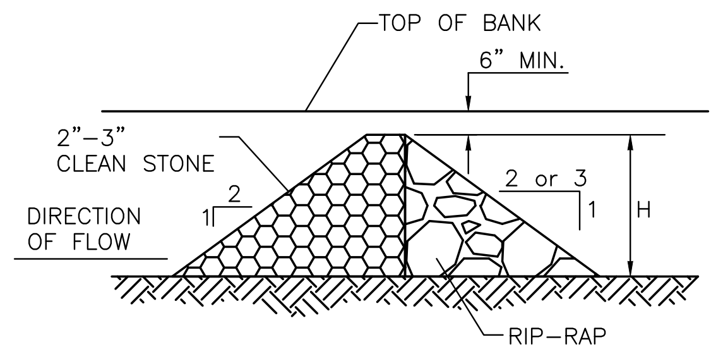
2–10 ACRES OF DRAINAGE AREA
(DOWNSTREAM VIEW)



CHECK DAMS IN SWALE



ELEVATION A



ELEVATION B

CHECK DAMS				
CHECK DAM NAME	CHECK DAM HEIGHT (IN.)	CHECK DAM SPACING (FT.)	AVERAGE CHANNEL SLOPE	MAXIMUM CHANNEL SLOPE
CD1	?	?	?%	?%
CD2	?	?	?%	?%
CD3	?	?	?%	?%

SOURCE BOX

LAST REVISED: JUNE 2012	CEC STANDARD DETAIL

(CD) ROCK CHECK DAM

N.T.S.

EROSION & SEDIMENTATION CONTROL PLAN/SITE MAP, SHEET 4 OF 4, MUST BE LOCATED ON–SITE.

GENERAL EROSION NOTES

A. THE STORMWATER POLLUTION PREVENTION PLAN IS COMPRISED OF THIS DRAWING ("SITE MAP"), THE STANDARD DETAILS, SPECIFICATIONS SECTION 02370 ("SWPPP"), 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 AND THE STATE 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 TO OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.

D. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY 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 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 ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES. CONTRACTOR SHALL CONSTRUCT TEMPORARY BERM ON DOWN STREAM SIDES IN COMPLIANCE WITH 02370 SPECIFICATION.

H. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, 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 BY SPRAYING WATER OR OTHER APPROVED DUST SUPPRESSION MATERIAL. 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 LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.

L. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS SITE MAP, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.

M. ALL DENUDED AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE, MUST BE STABILIZED TEMPORARILY WITH THE USE OF FAST–GERMINATING ANNUAL GRASS/GRAIN VARIETIES, STRAW/HAY MULCH, WOOD CELLULOSE FIBERS, TACKIFIERS, NETTING OR BLANKETS AS SHOWN ON SITE MAP.

N. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY STABILIZED AS SHOWN ON THE PLANS. THESE AREAS SHALL BE SEEDED, SODDED, AND/OR VEGETATED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRED IN THESE AREAS. REFER TO THE PHASE II EROSION CONTROL PLAN.

O. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION EXIT IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE. ONLY USE INGRESS/EGRESS LOCATIONS AS PROVIDED.

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 & OFFSITE SOIL 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 GENERAL PERMIT REQUIREMENTS.

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 AND SEDIMENT CONTROL MEASURES (SILT FENCE, ETC.) TO PREVENT EROSION AND POLLUTANT DISCHARGE.

U. SEE SITE PLAN FOR PERMANENT AND TEMPORARY SIGNAGE.

V. GENERAL CONTRACTOR IS TO DESIGNATE/IDENTIFY AREAS ON THE SITE MAPS, INSIDE OF THE LIMITS OF DISTURBANCE, FOR WASTE DISPOSAL AND DELIVERY AND MATERIAL STORAGE.

W. REFER TO THE SWPPP FOR REPORTABLE SPILL QUANTITIES OF PETROLEUM PRODUCTS AND/OR HAZARDOUS WASTES.

X. CONTRACTOR TO LIMIT DISTURBANCE OF SITE IN STRICT ACCORDANCE WITH EROSION CONTROL SEQUENCING SHOWN ON THIS PLAN. NO UNNECESSARY OR IMPROPERLY SEQUENCED CLEARING AND/OR GRADING SHALL BE PERMITTED.

MAINTENANCE REQUIREMENTS:

ALL MEASURES STATED ON THIS SITE MAP, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.

2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NEEDED.

3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE–HALF THE HEIGHT OF THE SILT FENCE.

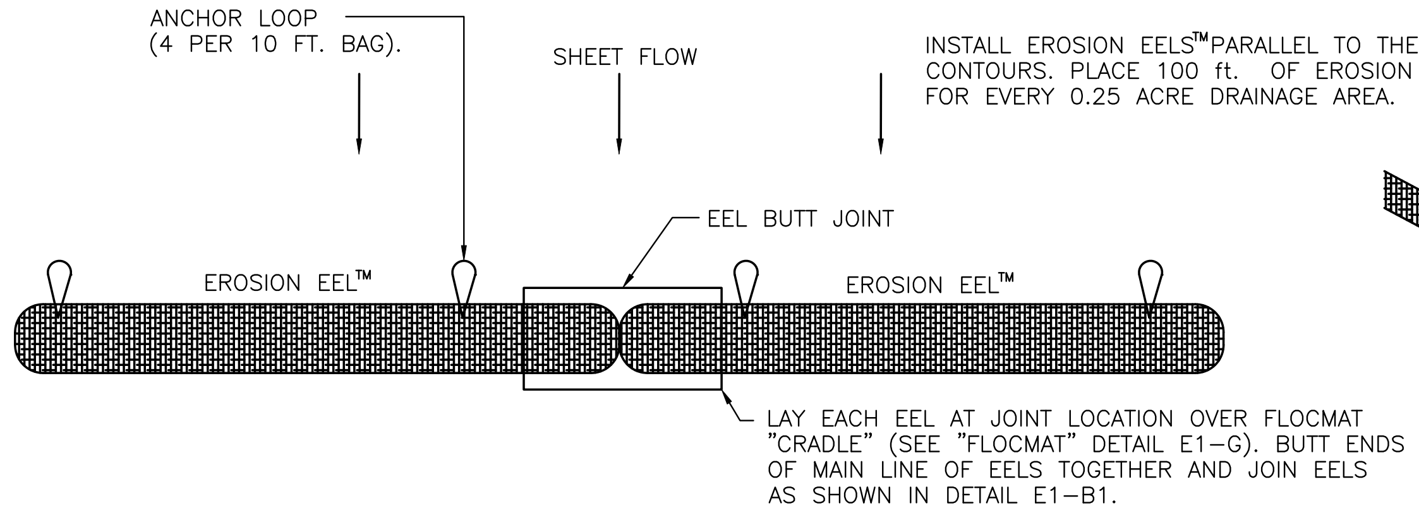
4. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS–OF–WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION EXIT AS CONDITIONS DEMAND.

5. THE TEMPORARY PARKING AND STORAGE AREAS SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AREA AS CONDITIONS DEMAND.

6. PRIOR TO LEAVING THE SITE, ALL VEHICLES SHALL BE CLEANED OF DEBRIS. DEBRIS AND/OR SEDIMENT REACHING THE PUBLIC STREET SHALL BE CLEANED IMMEDIATELY BY A METHOD OTHER THAN FLUSHING.

CAUTION – NOTICE TO CONTRACTOR

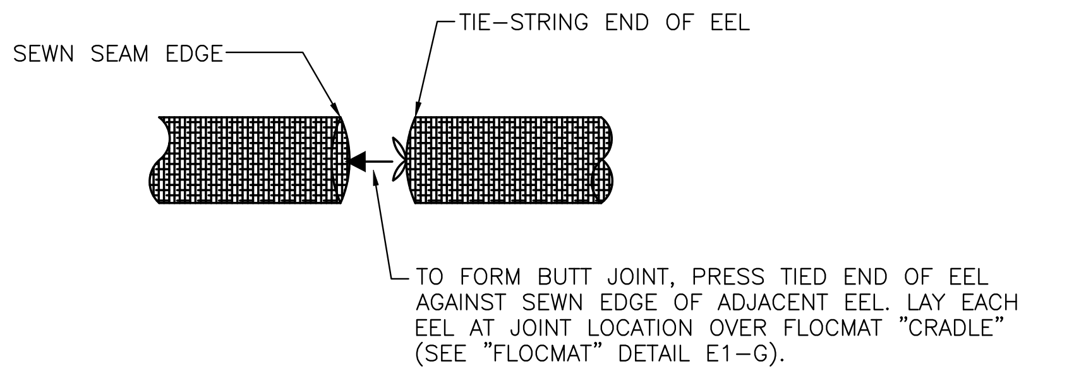
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE IMPROVEMENTS SHOWN BY THESE PLANS.



INSTALL EROSION EELS™ PARALLEL TO THE SLOPE CONTOURS. PLACE 100 ft. OF EROSION EELS™ FOR EVERY 0.25 ACRE DRAINAGE AREA.

DETAIL E1–B: INTERCEPTING SHEET FLOW PERPENDICULAR TO FLOW PATH – PLAN VIEW

N.T.S.



BUTT JOINT DETAIL E1–B1

N.T.S.

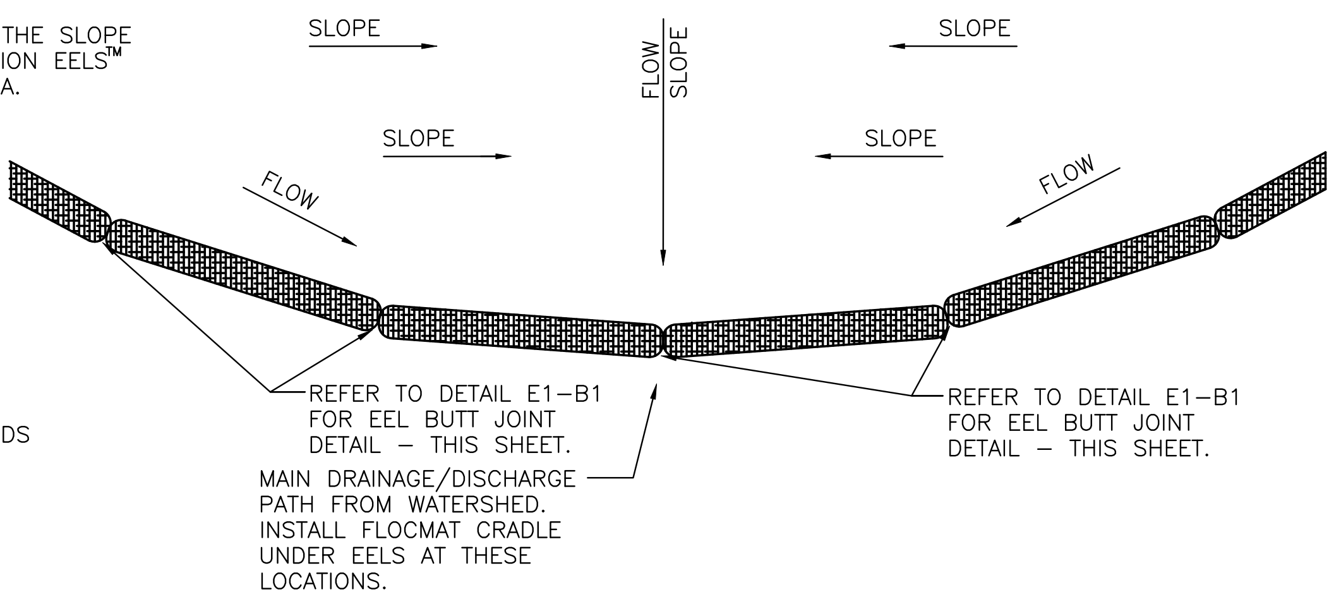
SPACING RECOMMENDATIONS FOR THE EROSION EEL™ FOR PERIMETER CONTROLS AND INTERCEPTING SHEET FLOW ON SLOPES

SLOPE(%)	SINGLE EEL SPACING(ft)
0.5	300
1	200
2	160
3	80
4	50
5	40
6	35
8	30
10	25
15	+17
20	+12
25	N/A
33	N/A
50	N/A

CONTACT INFORMATION

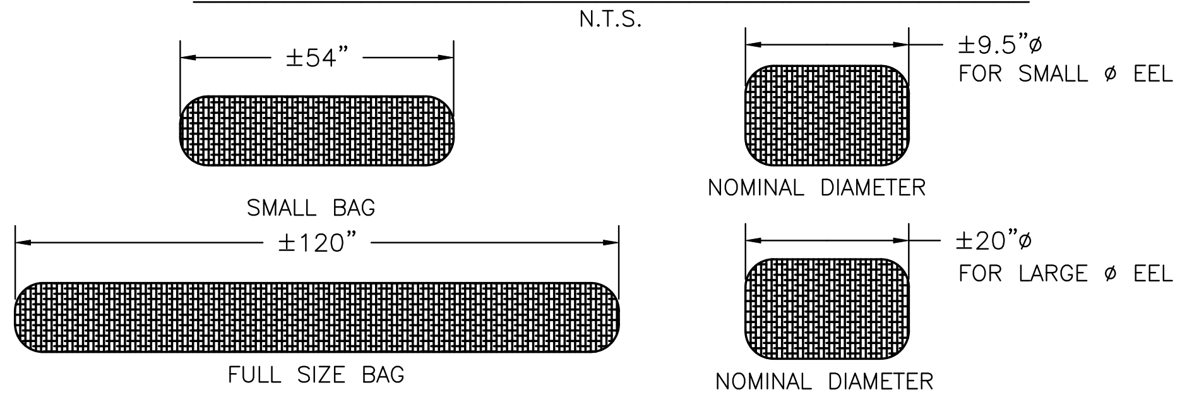
FRIENDLY ENVIRONMENT
100 PRINCE STREET
SHELBYVILLE, TN 37160
1–866–H2O–EELS

INFO@FRIENDLYENVIRONMENTUS.COM
http://FRIENDLYENVIRONMENTUS.COM



DETAIL E1–F: PLAN VIEW – TYPICAL ARRANGEMENT OF EELS USED FOR PERIMETER CONTROL

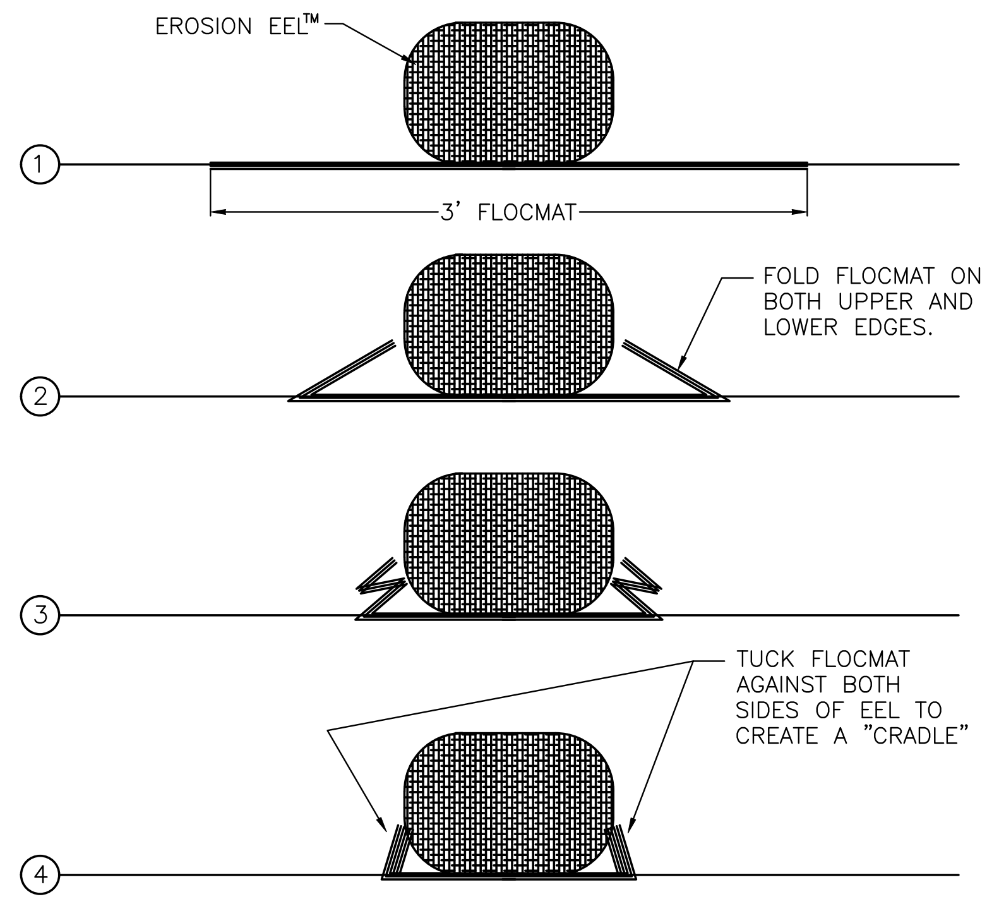
N.T.S.



NOTE:
ALL EROSION EELS™ USED FOR PERIMETER CONTROL SHALL USE MIXTURE SPECIFICATIONS 1.0 AND 2.0

DETAIL E1–A: EROSION EELS™

N.T.S.



INSTALL FLOCMAT AT MAIN DISCHARGE LOCATIONS FOR WATERSHED.

DETAIL E1–G: SECTION – FLOCMAT

N.T.S.

GENERAL NOTES

1. EROSION EELS™ USED IN PERIMETER CONTROL APPLICATIONS SHALL HAVE A SPECIFICATION MIXTURE 1.0 OR 2.0.
   - A. MIXTURE SPECIFICATION 1.0. A FILTER MATERIAL COMPRISED OF 100% RUBBER SHREDS. THE RUBBER SHALL BE DERIVED FROM RECYCLED TIRES AND SHALL BE SHREDDED TO PRODUCE A MAXIMUM PARTICLE SIZE OF +/– 3/4 INCH.
   - B. MIXTURE SPECIFICATION 2.0. A FILTER MIXTURE COMPRISED OF 100% SHREDDED RUBBER DERIVED FROM RECYCLED TIRES. MAXIMUM PARTICLE SIZE IS ±2 INCHES.
2. LENGTHS OF EROSION EELS™ SHALL BE EITHER A NOMINAL +/–10 FT. OR +/– 4.5 FT. NOMINAL DIAMETER SHALL BE +/–9.5 INCHES FOR PERIMETER CONTROLS AND +/–20 INCHES FOR CHECK DAM APPLICATIONS.
3. EROSION EELS™ CAN BE PLACED AT THE TOP, ON THE FACE, OR AT THE TOE OF SLOPES TO INTERCEPT RUNOFF, REDUCE FLOW VELOCITY, RELEASE THE RUNOFF AS SHEET FLOW AND PROVIDE REMOVAL OF SEDIMENT FROM THE RUNOFF.
4. EROSION EELS™ SHALL BE INSTALLED ALONG THE GROUND CONTOUR, AT THE TOE OF SLOPES, AT AN ANGLE TO THE CONTOUR TO DIRECT FLOW AS A DIVERSION BERM, AROUND INLET STRUCTURES, IN A DITCH AS A CHECK DAM TO HELP REDUCE SUSPENDED SOLIDS LOADING AND RETAIN SEDIMENT, OR AS A GENERAL FILTER FOR ANY DISTURBED SOIL AREA.
5. NO TRENCHING IS REQUIRED FOR INSTALLATION OF EROSION EELS™.
6. PREPARE BED FOR EEL INSTALLATION BY REMOVING ANY LARGE DEBRIS INCLUDING ROCKS, SOIL CLODS, AND WOODY VEGETATION. EROSION EELS™ CAN ALSO BE PLACED OVER PAVED SURFACES INCLUDING CONCRETE AND ASPHALT WITH NO SURFACE PREPARATION REQUIRED.
7. RAKE BED AREA WITH A HAND RAKE OR BY DRAG HARROW.
8. DO NOT PLACE EEL DIRECTLY OVER RILL AND GULLIES UNTIL AREA HAS BEEN HAND–EXCAVATED AND RAKED TO PROVIDE A LEVEL BEDDING SURFACE. ALL SURFACES SHALL BE UNIFORMLY COMPACTED FOR MAXIMUM SEATING OF EELS IN PLACE.
9. FOR LOCATIONS WHERE EELS WILL BE PLACED IN CONCENTRATED FLOWS (SUCH AS CHECK DAMS, INLET PROTECTION) AND FOR PERIMETER CONTROLS, BED THE EELS IN A FLOCMAT CRADLE PER THE DETAILED DRAWINGS.
10. FOR DITCH APPLICATIONS, THE MAXIMUM DRAINAGE AREA SHALL BE 10 ACRES.
11. IF MORE THAN ONE EROSION EEL™ IS PLACED IN A ROW, PREPARE JOINTS PER DETAIL E1–B1.
12. EROSION EELS™ SHALL REMAIN IN PLACE UNTIL FULLY ESTABLISHED VEGETATION HAS COMPLETELY DEVELOPED OR UNTIL THE STORAGE CAPACITY/FUNCTIONAL LIFE OF THE EEL HAS BEEN EXHAUSTED (REQUIRING REPLACEMENT WITH NEW EELS).
13. ANCHORING POSTS FOR CHECK DAM APPLICATIONS SHALL HAVE A MINIMUM WEIGHT OF 1.25 LBS/FT STEEL T–POSTS (5 TO 7 FT. LENGTHS) ROLLED FROM HIGH CARBON STEEL. POSTS SHOULD BE HOT–DIP GALVANIZED OR COATED WITH A WEATHER–RESISTANT PAINT FOR STEEL APPLICATION. POSTS SHOULD BE EQUIPPED WITH A METAL ANCHOR PLATE.
14. PLACE T–POSTS THROUGH HANDLE OF BAGS. DO NOT DRIVE POSTS THROUGH EROSION EELS™. T–POSTS ARE TO BE EMBEDDED A MINIMUM OF 3 FT. INTO GROUND ON STEEP SLOPES GREATER THAN 25%.

(EE) EROSION EEL

N.T.S.

EROSION EEL

SITE NUMBER:	13006
BASE MODEL:	2018 PROTOTYPE
ASSET TYPE:	COMPANY
CLASSIFICATION:	NEW
OWNER:	COMPANY
BASE VERSION:	2018
UPGRADE CLASSIFICATION:	COMPANY NEW BUILD
PROJECT YEAR:	2018
FURNITURE PACKAGE:	XXX
DESIGN BULLETINS:	–

CARLSON
CONSULTING
ENGINEERS, INC.

7068 LEDGESTONE COMMONS
BARTLETT, TENNESSEE 38133
PH. (901) 384-0404 • FX. (901) 384-0710
AR CORPORATION #397

811
Know what's **below.**
Call before you dig.
3 business days
prior to excavation:

PROJECT TYPE: 2018 CIVIL PROTOTYPE

Wendy's

4204 E. JOHNSON AVE.
JONESBORO, AR 72401

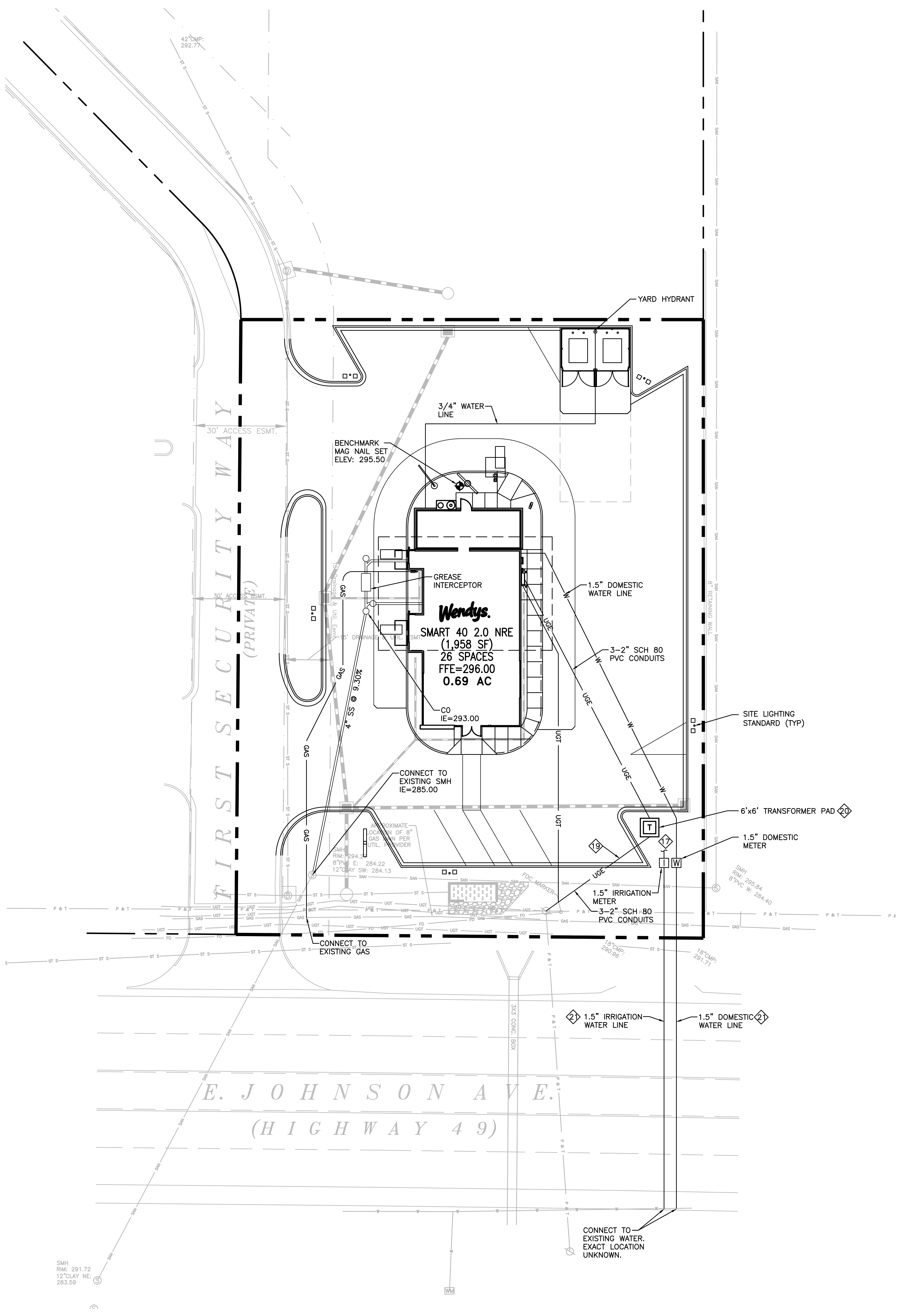
REV.	DATE	DESCRIPTION

ISSUE DATE:	3/1/19
PROJECT NUMBER:	N/A
DRAWN BY:	TGH
CHECKED BY:	DLC

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 13316
JOSEPH PARSLEY
3/12/19

SHEET NAME
EROSION CONTROL DETAILS

SHEET NUMBER
C3.4



BENCHMARKS

BENCHMARK #1 – MAG NAIL SET
ELEV: 333.97
BENCHMARK #2 – MAG NAIL SET
ELEV: 332.02

SYMBOL LEGEND

——W——	– PROPOSED DOMESTIC WATER LINE
═══════	– PROPOSED SANITARY SEWER LINE
☐	– PROPOSED TRANSFORMER
——W——	– EXISTING WATER LINE
——SAN——	– EXISTING SANITARY SEWER LINE
——ST S——	– EXISTING STORM SEWER LINE
Ⓢ	– EXISTING SANITARY SEWER MANHOLE
☼	– EXISTING LIGHT POLE
WM	– EXISTING WATER METER

UTILITY NOTES

1. EXISTING UTILITIES LOCATIONS SHOWN ARE APPROXIMATE.
2. VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES PRIOR TO EXCAVATION WHERE NECESSARY.
3. PROTECT AND MAINTAIN SERVICE OF OTHER UTILITIES AT CROSSINGS.
4. DO NOT CONNECT ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER SERVICES TO THE SANITARY SEWER.
5. PROVIDE AND MAINTAIN INLET FILTERS AT ALL CATCH BASIN INLETS, DURING CONSTRUCTION.
6. ADJUST ALL CASTINGS TO FINISH GRADES.
7. KEEP SITE LIGHTING CONDUITS OUTSIDE OF PAVEMENT IF POSSIBLE.

SANITARY SEWER NOTES

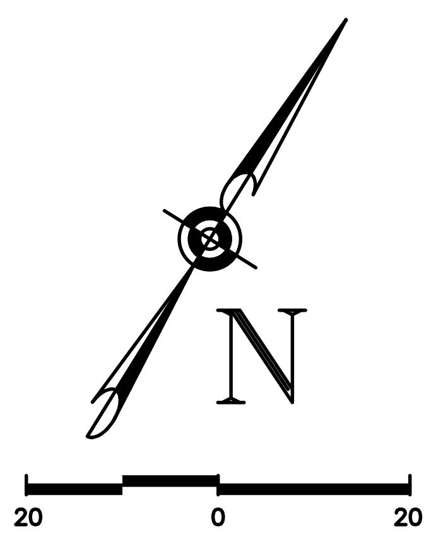
1. SLOPE SANITARY SEWER AT 1.0% MIN. SLOPE TO PUBLIC SERVICE LEAD.
2. INSTALL CLEANOUTS AT ANY CHANGE IN DIRECTION OF PIPE.
3. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.

GAS MAIN NOTES

1. GAS COMPANY WILL PROVIDE GAS SERVICE TAP, METER, REGULATOR, AND INSTALL THE NEW SERVICE LINE TO THE METER.

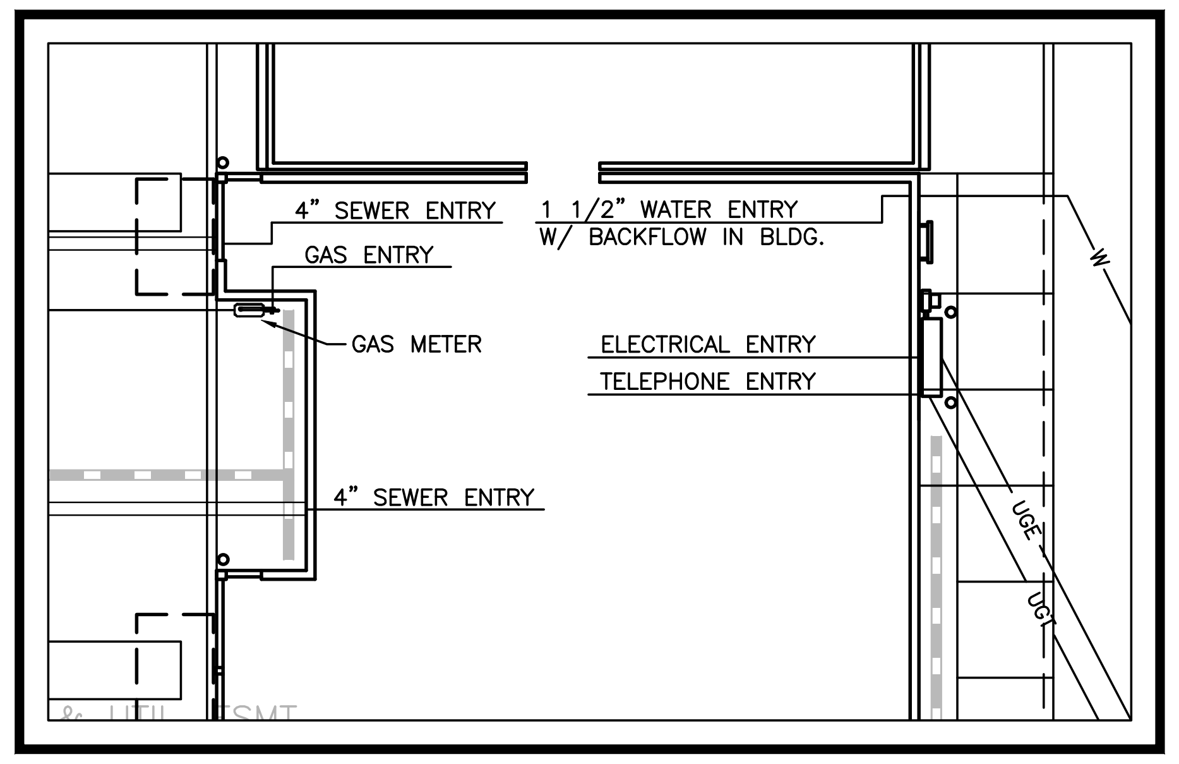
STORM SEWER NOTES

1. PROVIDE INLET FILTER FOR ALL CATCH BASIN INLETS DURING CONSTRUCTION.



◇ NOTES:

1. CONTRACTOR SHALL VERIFY AS-BUILT INVERT ELEVATION AND ADVISE ENGINEER OF ANY DISCREPANCIES.
2. CONSTRUCTION SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNTIL WRITTEN APPROVAL HAS BEEN RECEIVED FROM APPROPRIATE UTILITY COMPANIES AND CONTRACTOR HAS BEEN NOTIFIED.
3. CONTRACTOR SHALL NOT OPEN, TURN OFF, INTERFERE WITH, OR ATTACH ANY PIPE OR HOSE TO OR TAP ANY WATER MAIN BELONGING TO THE CITY UNLESS DULY AUTHORIZED TO DO SO BY THE CITY. ANY ADVERSE CONSEQUENCES OF ANY SCHEDULED OR UNSCHEDULED DISRUPTIONS OF SERVICE TO THE PUBLIC ARE TO BE THE LIABILITY OF THE CONTRACTOR.
4. ALL NECESSARY INSPECTIONS, APPROVALS, AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR AUTHORITIES SHALL BE COMPLETED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CERTIFICATION OF SERVICES.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING CONDUIT FOR UNDERGROUND UTILITIES AS PER THE UTILITY COMPANY REQUIREMENTS.
6. CONTRACTOR SHALL COORDINATE WITH WATER COMPANY FOR REQUIREMENTS OF DOMESTIC ENTRY. ALL APPURTENANCES SUCH AS VALVES AND BACKFLOW PREVENTION DEVICES, METER BOXES AND/OR METERS REQUIRED BUT NOT PROVIDED BY THE WATER COMPANY SHALL BE SUPPLIED BY THE CONTRACTOR AND INSTALLED PER THE WATER COMPANIES REQUIREMENTS.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING PIPE BOLLARD PROTECTION AROUND UTILITY ENTRANCES AND METER LOCATIONS. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR EXACT REQUIREMENTS.
8. PRIOR TO THE START OF CONSTRUCTION OF, OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OF THE DRY UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM THE ENGINEER OF RECORD AND THE OWNER/DEVELOPER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. THE ENGINEER OF RECORD AND HIS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.
9. MAINTAIN A MINIMUM 10' HORIZONTAL AND 18" VERTICAL SEPARATION AT ALL WATER AND SEWER CROSSINGS.
10. WATER LINES MUST HAVE A MINIMUM COVER OF 36".
11. REFER TO THE ARCHITECTURAL PLANS FOR ELECTRICAL SITE LIGHTING PLAN.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ANY UTILITY COMPANY WHICH MAINTAINS A UTILITY LINE WITHIN THE BOUNDARIES OF THE PROJECT PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ASSUME THE RESPONSIBILITY FOR ANY DAMAGE, INCURRED BY ANY UTILITY COMPANY, TO THEIR LINES AS A RESULT OF HIS ACTIVITIES, WHETHER THESE LINES ARE SHOWN ON THE CONSTRUCTION PLANS OR NOT.
13. CONTRACTOR SHALL COORDINATE RELOCATION OF UTILITY LINES AND/OR UTILITY LINE MARKERS THAT CONFLICT WITH THE IMPROVEMENTS WITH UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION TO PREVENT DELAYS IN CONSTRUCTION.
14. SEE SURVEY FOR DESCRIPTION OF EXISTING EASEMENTS.
15. CONTRACTOR SHALL USE CAUTION WHEN INSTALLING LIGHT POLE BASES TO PREVENT DAMAGE TO STORM SEWER PIPES.
16. ALL UTILITY CONSTRUCTION SHALL CONFORM WITH THE MOST STRINGENT REQUIREMENTS OF THE UTILITY COMPANY OR CVS SPECIFICATIONS.
17. REFER TO IRRIGATION PLAN FOR CONTINUATION OF THIS LINE.
18. REFER TO SHEET C5.0 FOR SANITARY SEWER CLEANOUT DETAILS.
19. CONTRACTOR SHALL INSTALL THREE – 2" SCHEDULE 80 PVC CONDUITS WITH PULL ROPE FOR ELECTRIC SERVICE. ELECTRIC COMPANY WILL INSTALL CABLES FROM EXISTING TO THE METER.
20. TRANSFORMER PAD TO BE DESIGNED BY ELECTRIC COMPANY AND INSTALLED BY CONTRACTOR.
21. WATER LINES TO BE EXTENDED TO METER LOCATION BY WATER COMPANY. FEES FOR EXTENSION TO BE PAID BY CONTRACTOR. WATER LINES FROM METER TO BUILDING AND IRRIGATION SYSTEM BY CONTRACTOR.



UTILITY ENTRY ENLARGEMENT
SCALE: 1" = 10'

SITE NUMBER:	13006
BASE MODEL:	2018 PROTOTYPE
ASSET TYPE:	COMPANY
CLASSIFICATION:	NEW
OWNER:	COMPANY
BASE VERSION:	2018
UPGRADE CLASSIFICATION:	COMPANY NEW BUILD
PROJECT YEAR:	2018
FURNITURE PACKAGE:	XXX
DESIGN BULLETINS:	–

CARLSON CONSULTING ENGINEERS, INC.

7068 LEDGESTONE COMMONS
BARTLETT, TENNESSEE 38133
PH. (901) 384-0404 ● FX. (901) 384-0710
AR CORPORATION #397

811
Know what's **below.**
Call before you dig.
3 business days prior to excavation:

PROJECT TYPE:	2018 CIVIL PROTOTYPE

4204 E. JOHNSON AVE.
JONESBORO, AR 72401

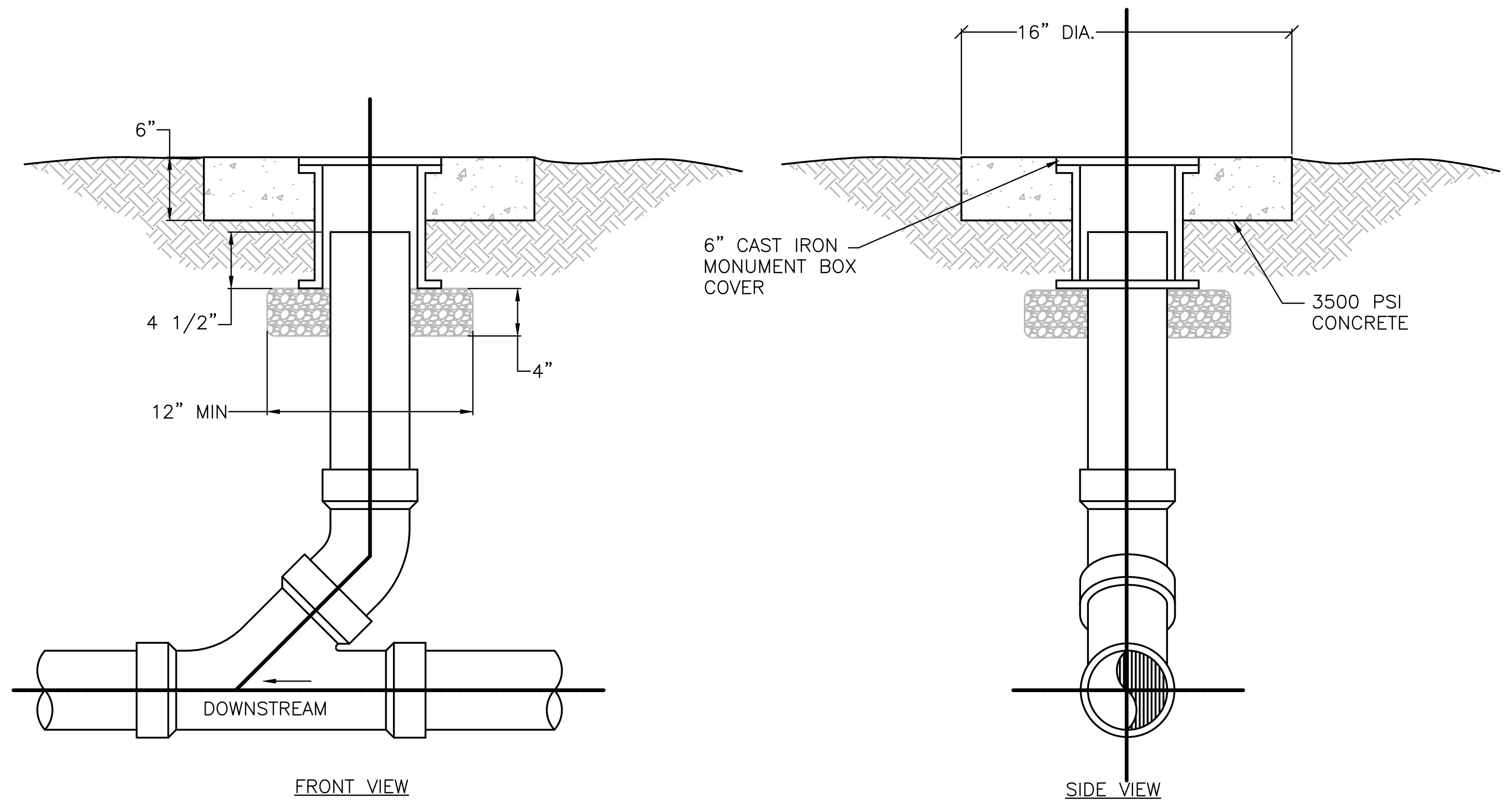
REV.	DATE	DESCRIPTION

ISSUE DATE:	3/1/19
PROJECT NUMBER:	N/A
DRAWN BY:	TGH
CHECKED BY:	DLC

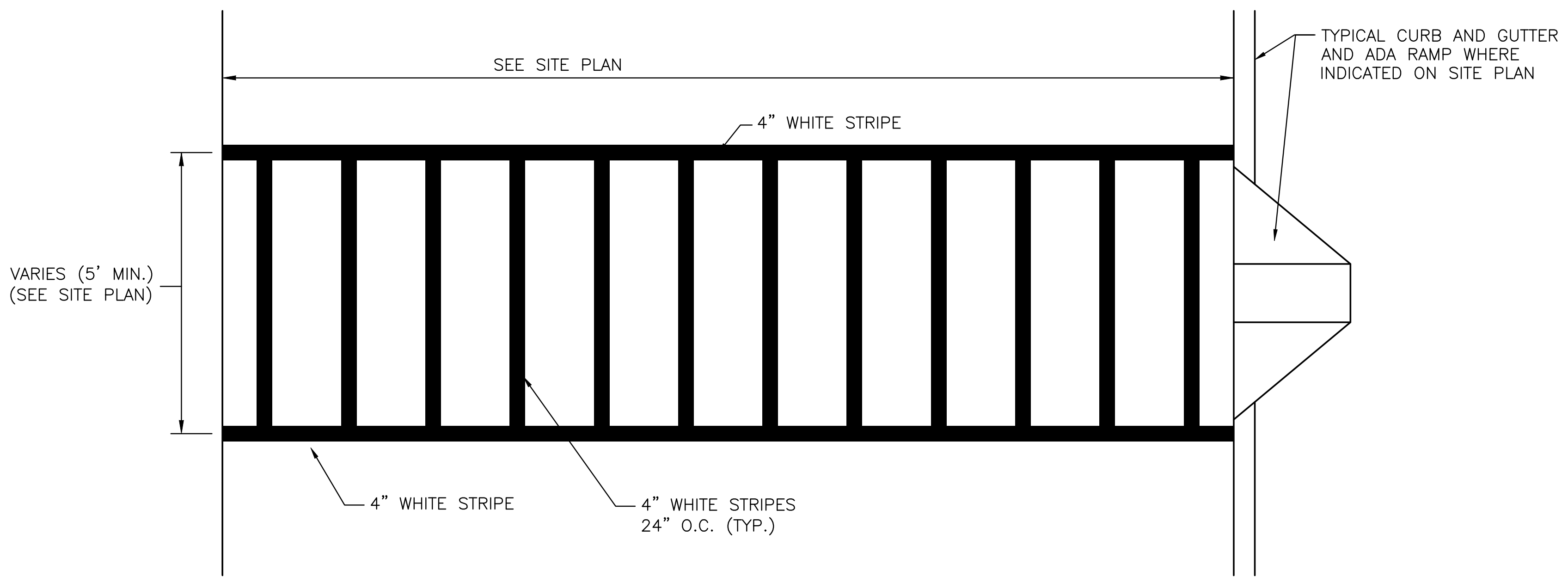
REGISTERED PROFESSIONAL ENGINEER No. 13316 JOSEPH PARSLEY
3/12/19

SHEET NAME
UTILITY PLAN

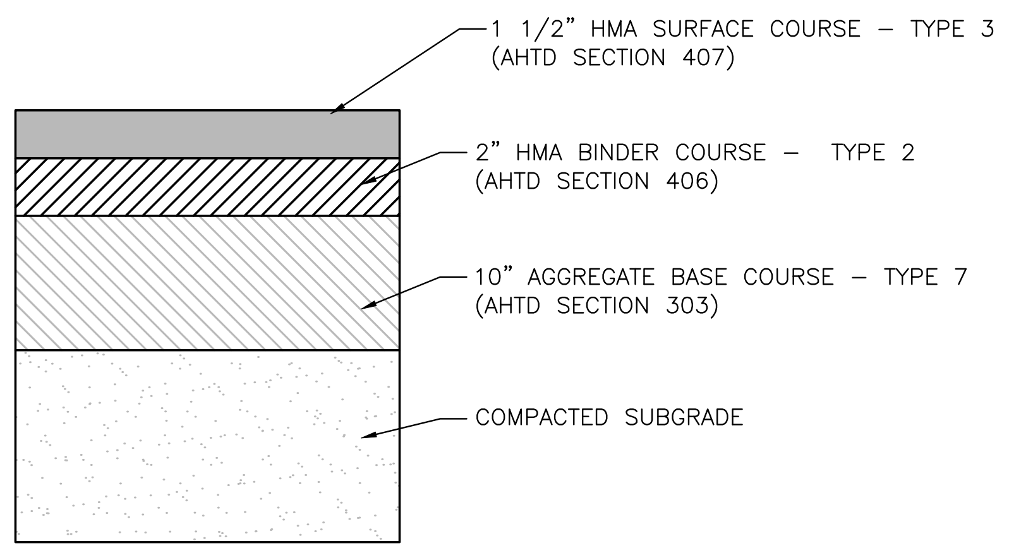
SHEET NUMBER
C4.0



⑫ SEWER CLEANOUT DETAIL
NO SCALE

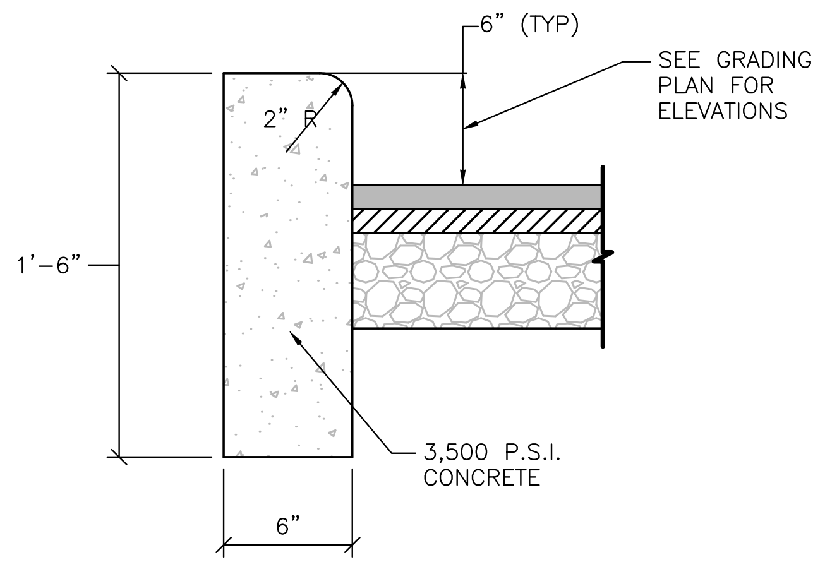


⑬ CROSSWALK DETAIL
NO SCALE



⑮ HEAVY DUTY ASPHALT
PAVEMENT SECTION
NO SCALE

⑪ NOT USED
NO SCALE

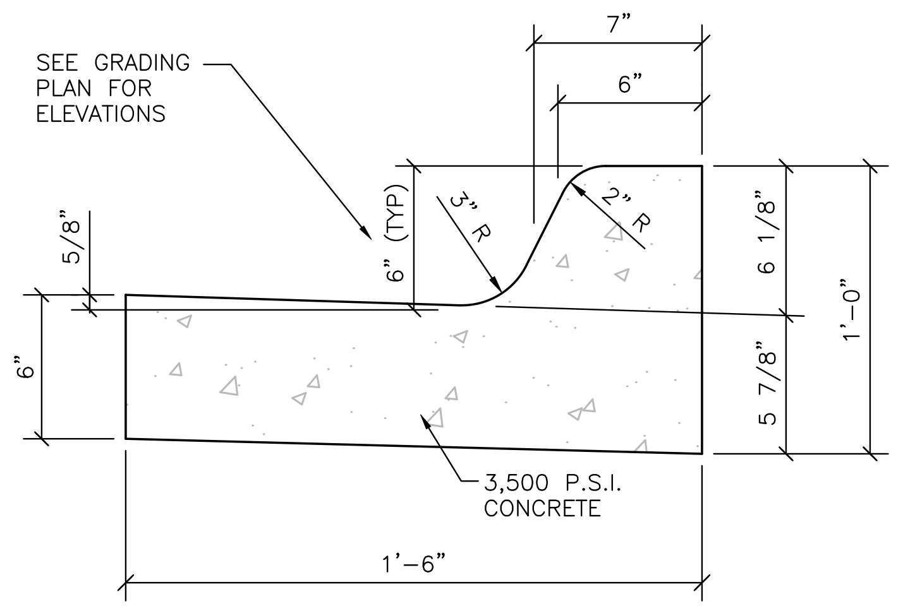


⑦ NOT USED
NO SCALE

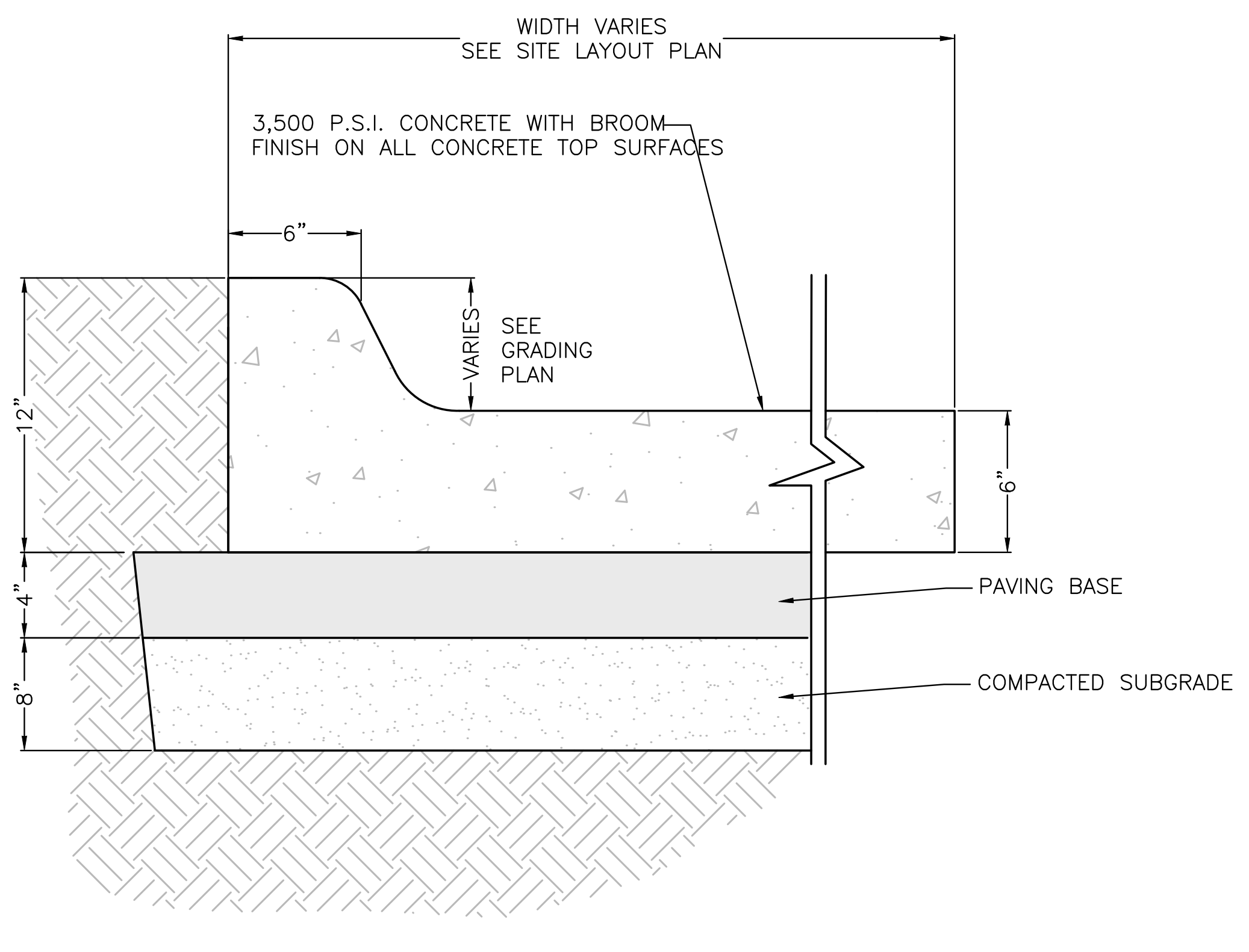
⑧ NOT USED
NO SCALE

⑨ STANDARD STRAIGHT CURB
NO SCALE

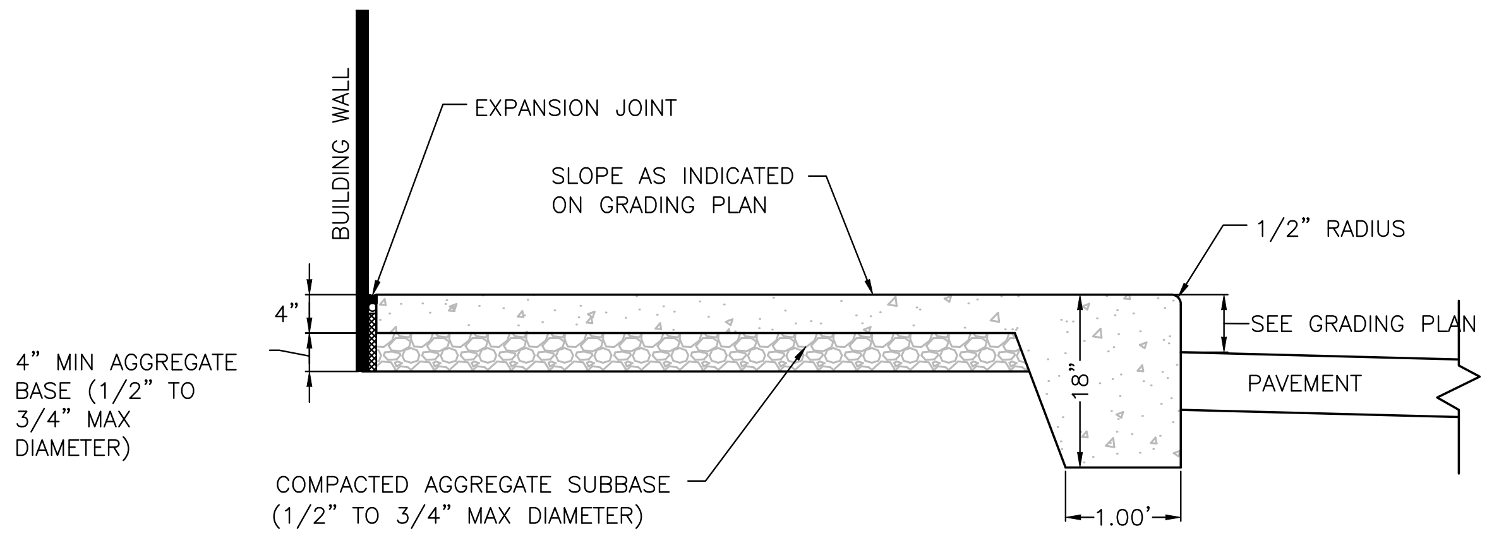
⑩ NOT USED
NO SCALE



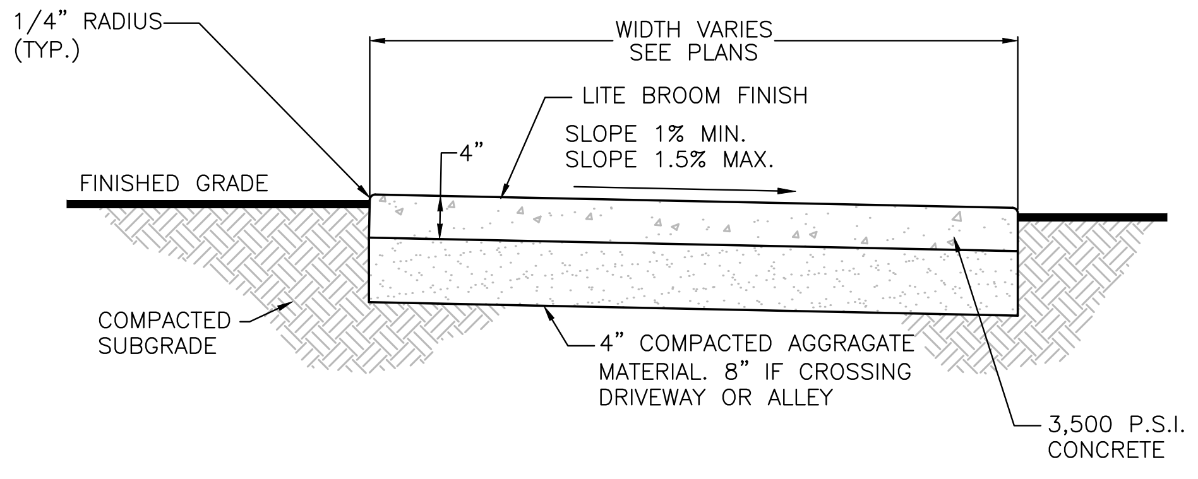
④ CONCRETE CURB & GUTTER
NO SCALE



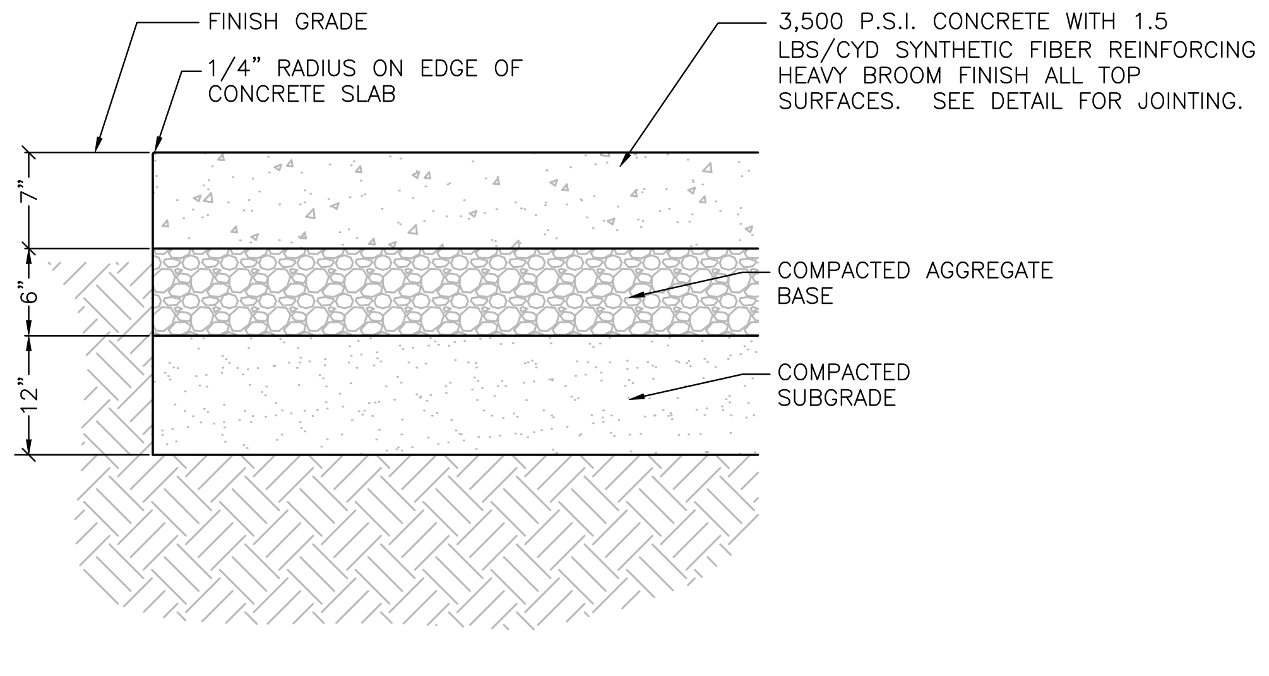
⑤ INTEGRAL CURB & GUTTER WITH
DRIVE–THRU CONCRETE PAD
NO SCALE



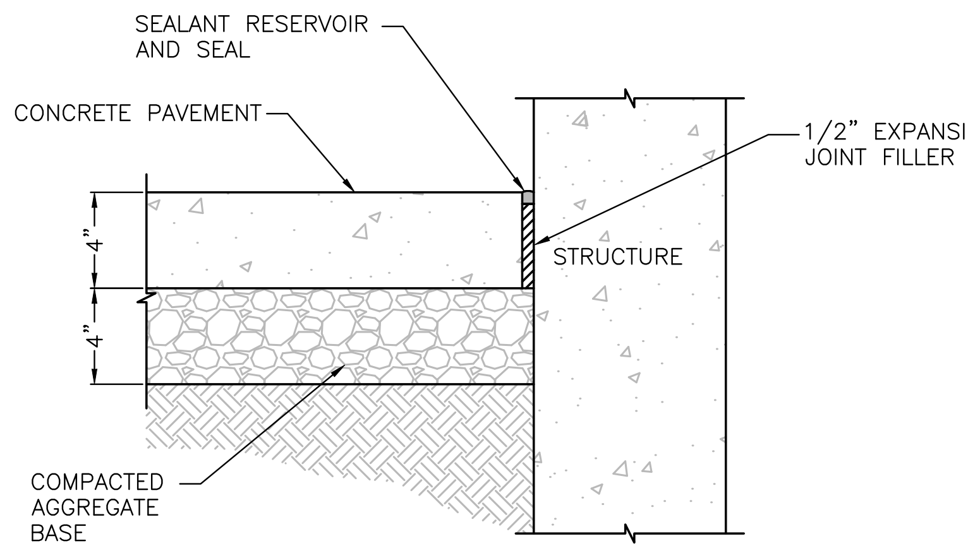
⑥ THICKENED EDGE SIDEWALK
NO SCALE



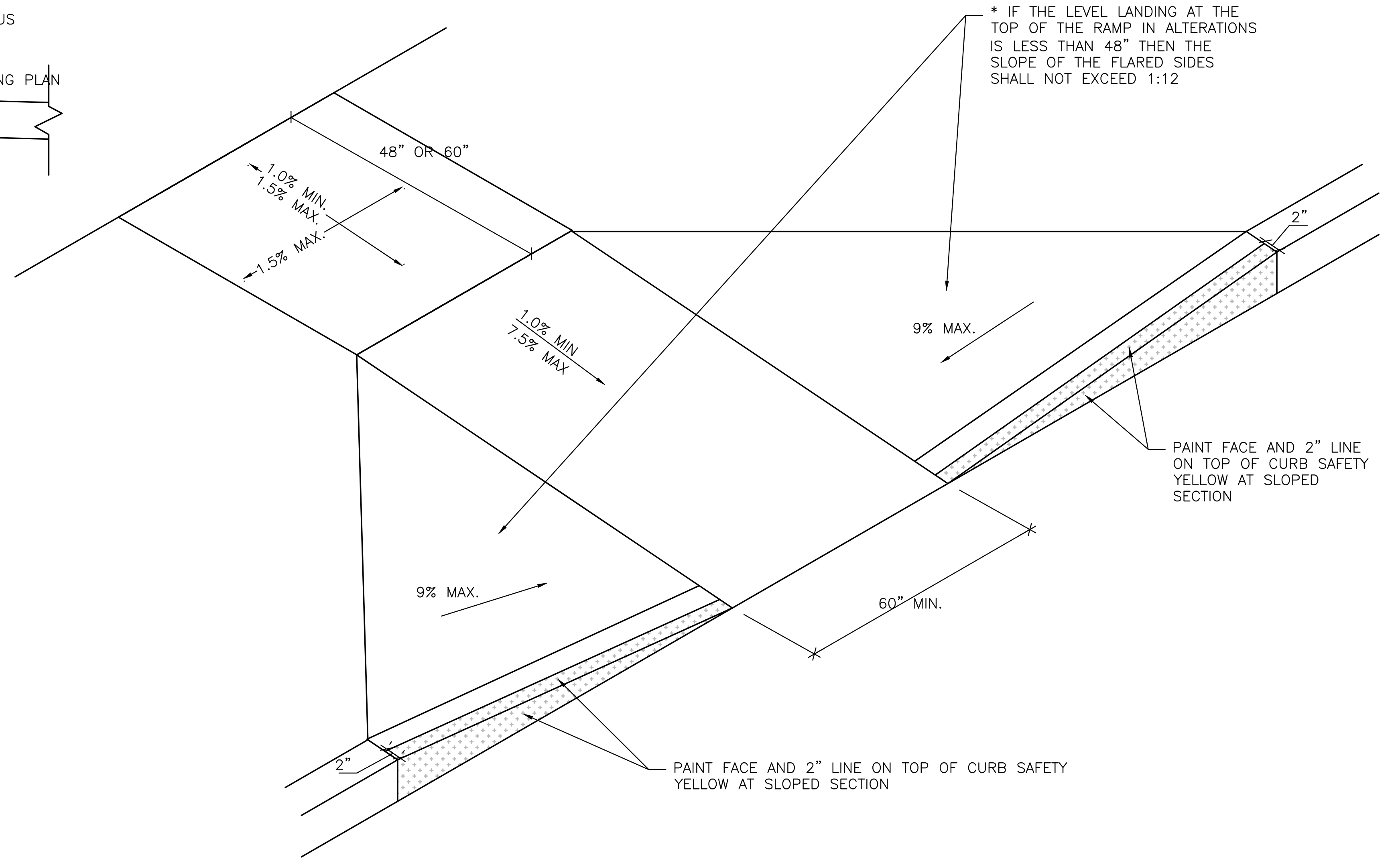
① SIDEWALK DETAIL
NO SCALE



② DUMPSTER PAD
CONCRETE PAVEMENT DETAIL
NO SCALE



③ CONCRETE EDGE AT BUILDING
NO SCALE



③ SIDEWALK RAMP DETAIL
NO SCALE

SITE NUMBER: 13006
BASE MODEL: 2018 PROTOTYPE
ASSET TYPE: COMPANY
CLASSIFICATION: NEW
OWNER: COMPANY
BASE VERSION: 2018
UPGRADE CLASSIFICATION: COMPANY NEW BUILD
PROJECT YEAR: 2018
FURNITURE PACKAGE: XXX
DESIGN BULLETINS: –

CARLSON CONSULTING ENGINEERS, INC.
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AR CORPORATION #397

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Know what's **below.**
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PROJECT TYPE: 2018 CIVIL PROTOTYPE

Wendy's
4204 E. JOHNSON AVE.
JONESBORO, AR 72401

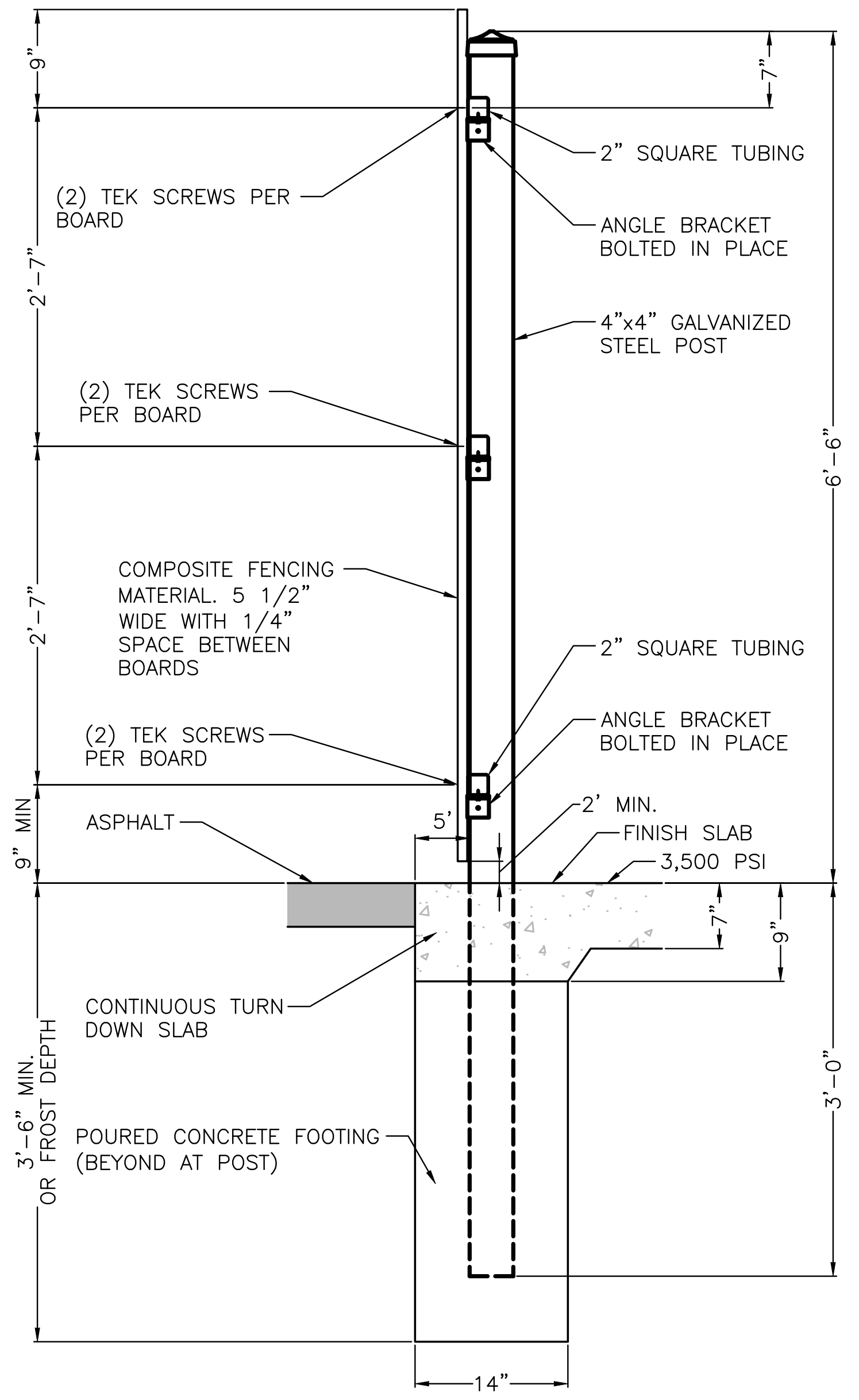
REV.	DATE	DESCRIPTION

ISSUE DATE: 3/1/19
PROJECT NUMBER: N/A
DRAWN BY: TGH
CHECKED BY: DLC

JOSEPH PARSLEY No. 13316
3/12/19

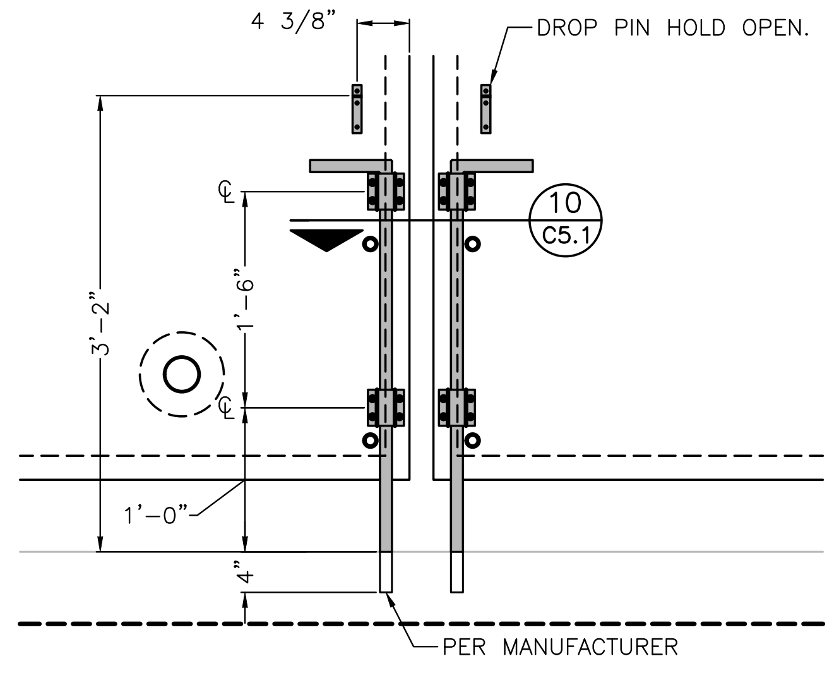
SHEET NAME
SITE PAVING & UTILITY DETAILS

SHEET NUMBER
C5.0



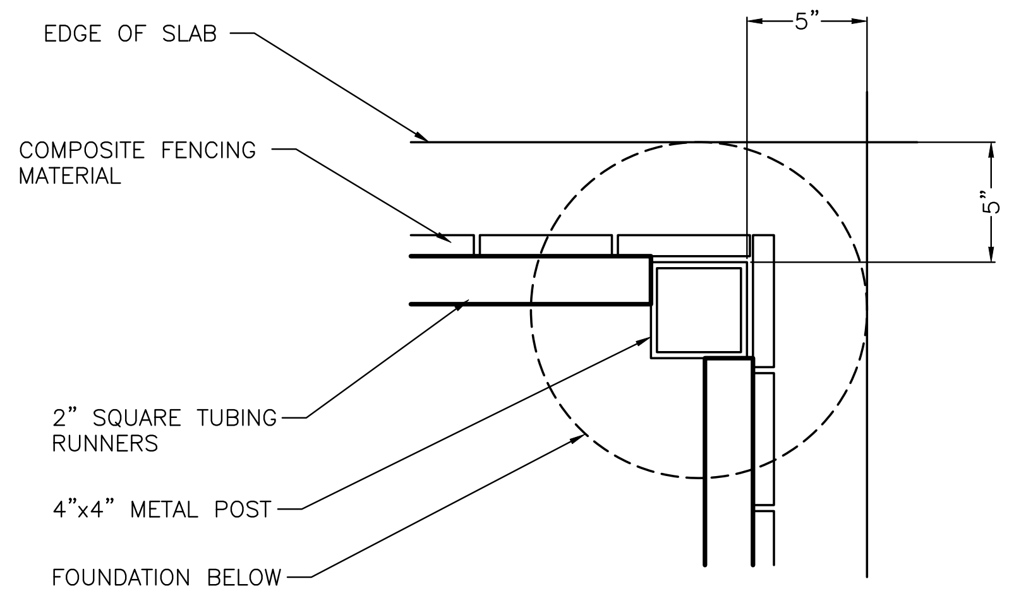
6 TRASH ENCLOSURE WALL SECTION

SCALE: 3/4" = 1'-0"



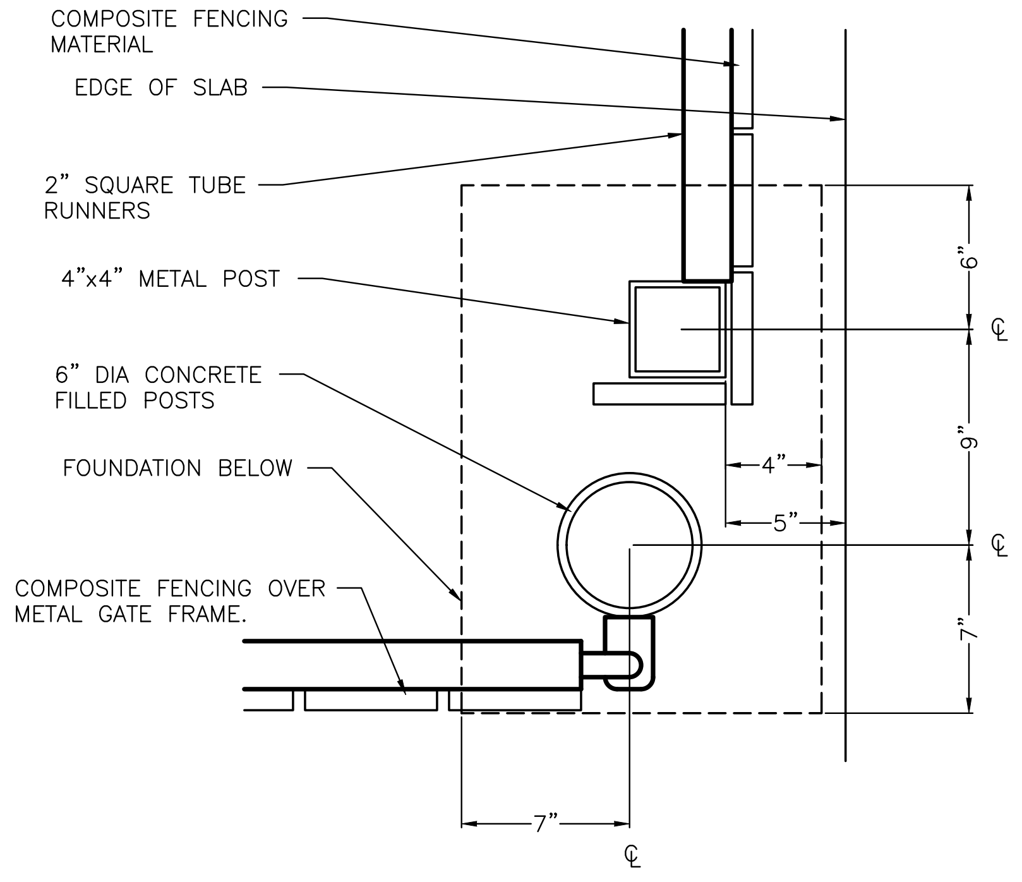
11 DROP PIN DETAIL

SCALE: 3/4" = 1'-0"



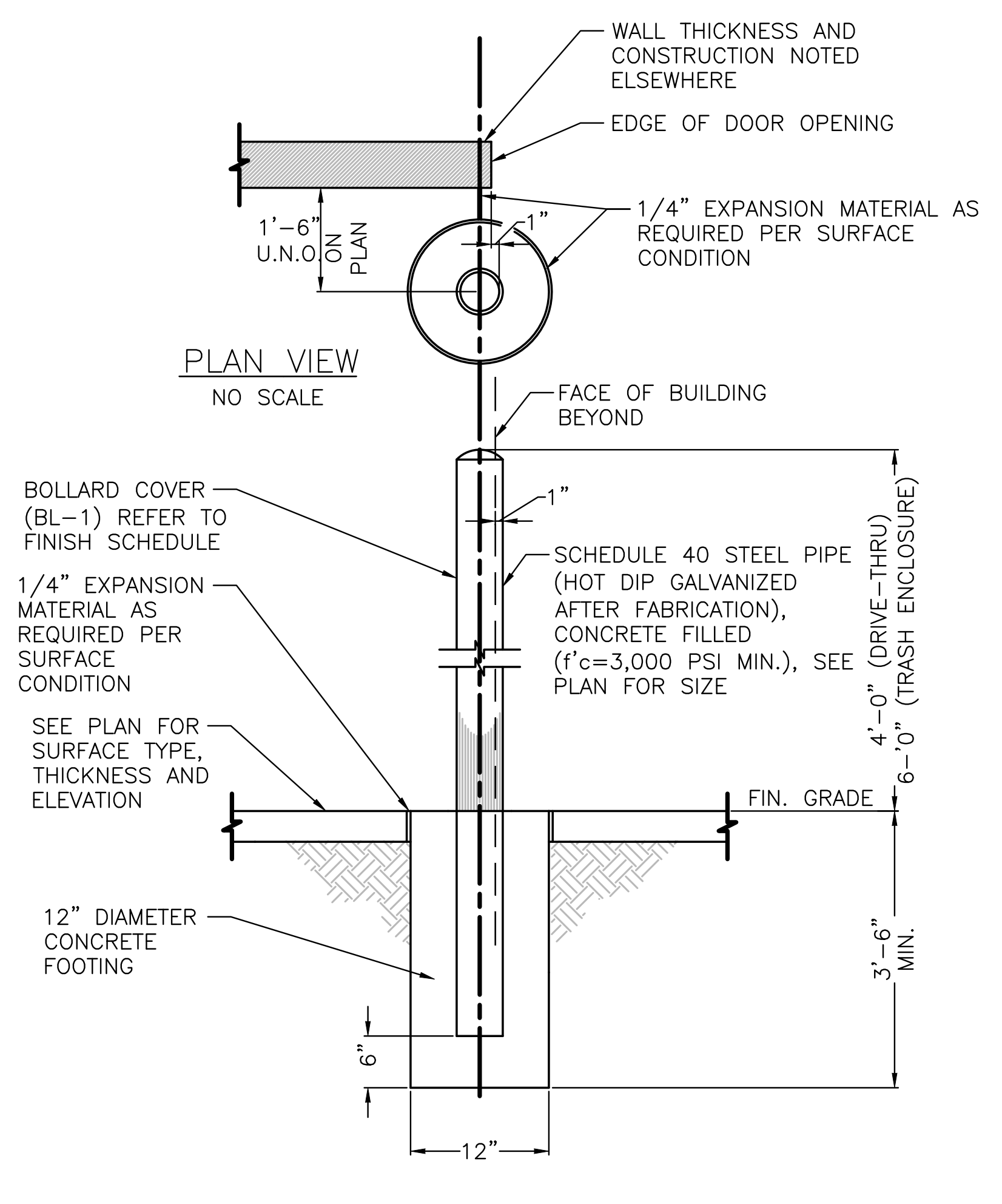
7 PLAN DETAIL

SCALE: 1 1/2" = 1'-0"



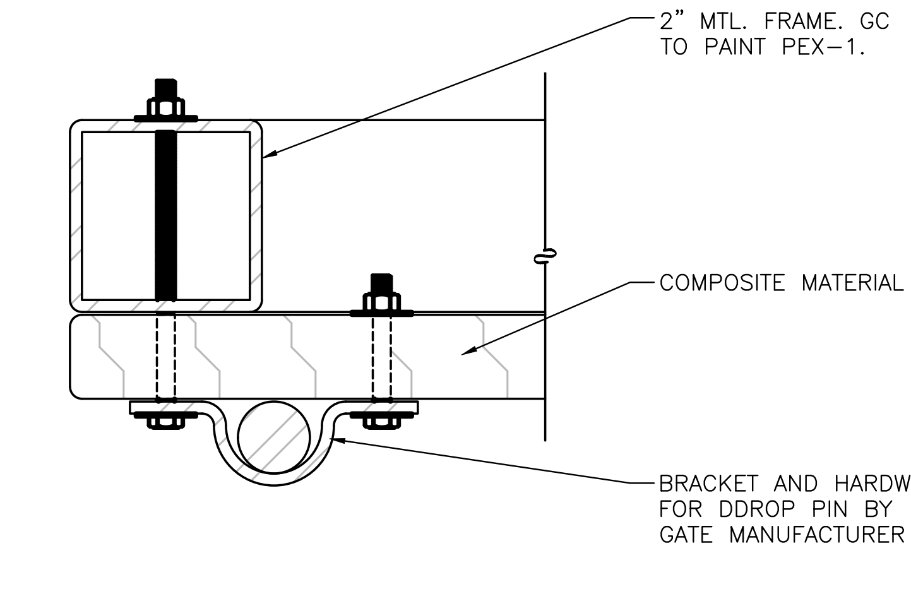
8 PLAN DETAIL

SCALE: 1 1/2" = 1'-0"



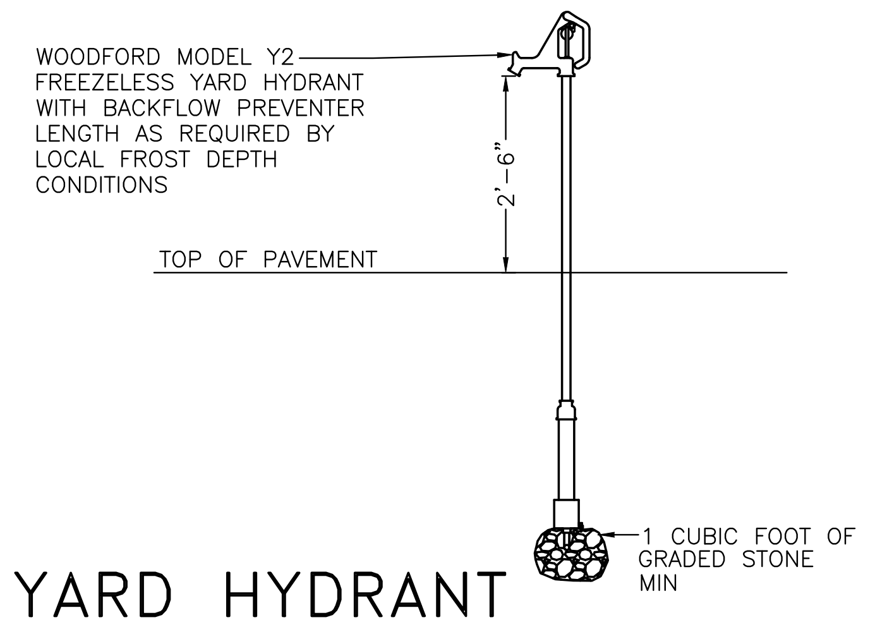
9 6" BOLLARD DETAIL

NO SCALE



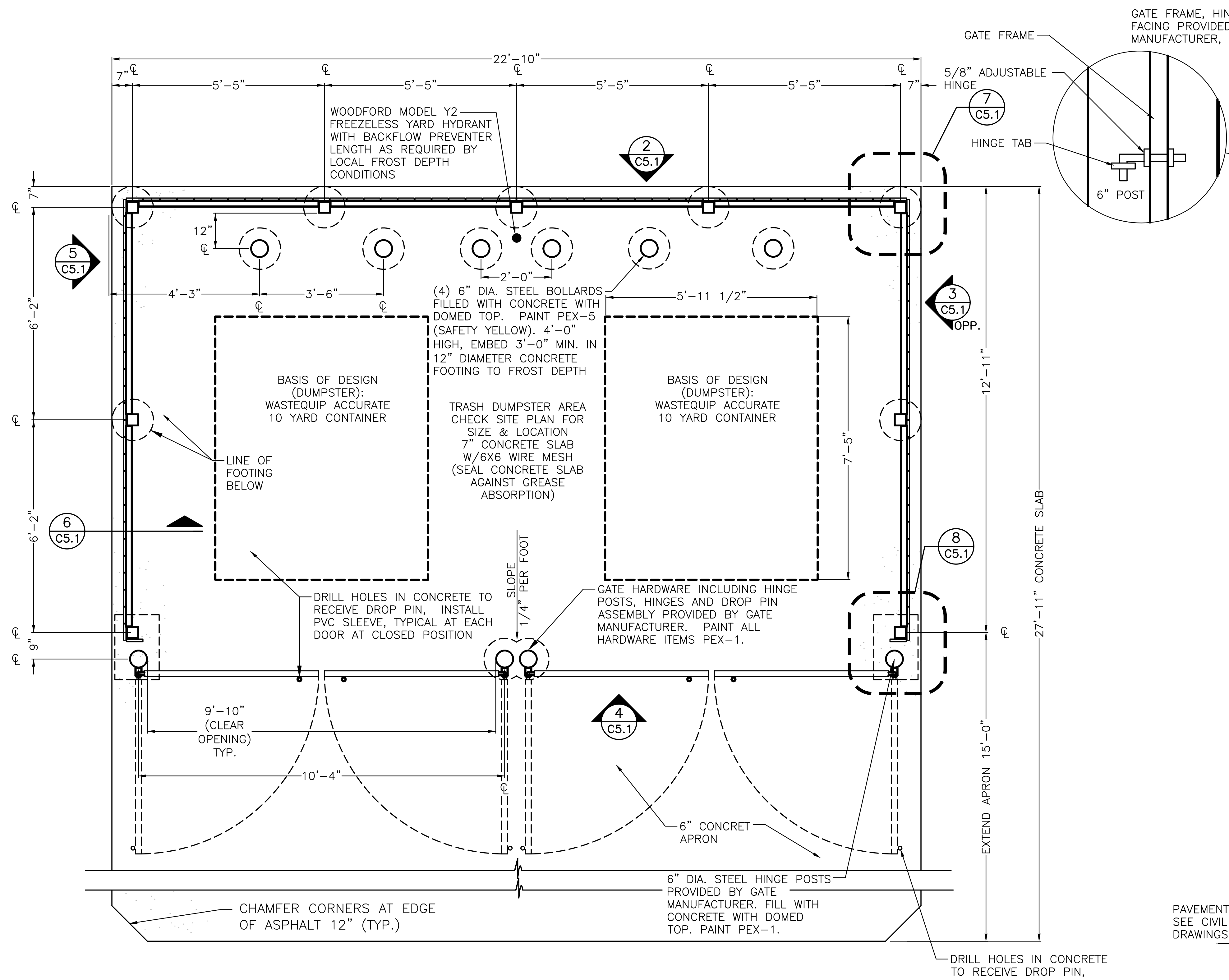
10 DROP PIN DETAIL ALT. COMPOSITE GATE

SCALE: 6" = 1'-0"



11 YARD HYDRANT

NO SCALE



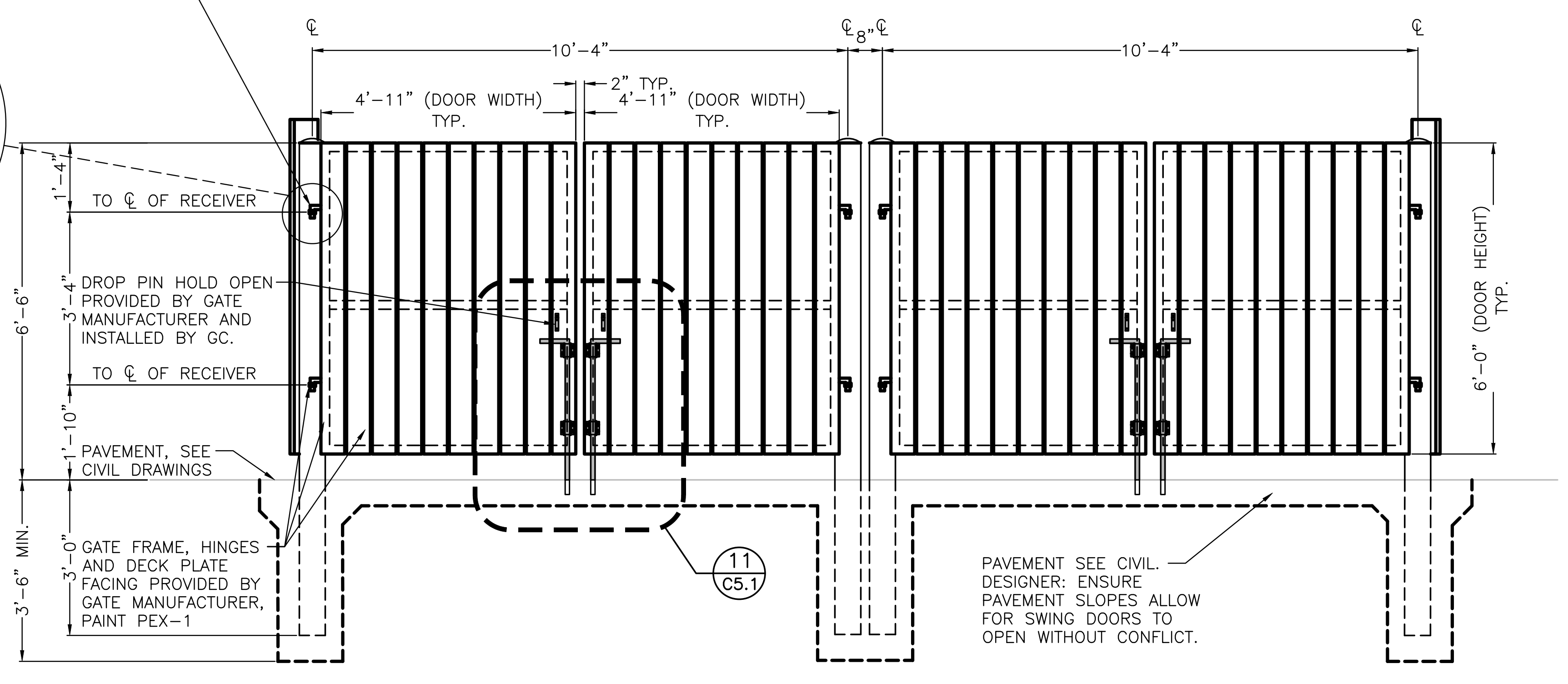
1 COMPOSITE FENCE TRASH ENCLOSURE

SCALE: 3/8" = 1'-0"

OPTIONAL CONCRETE SLAB SPEC

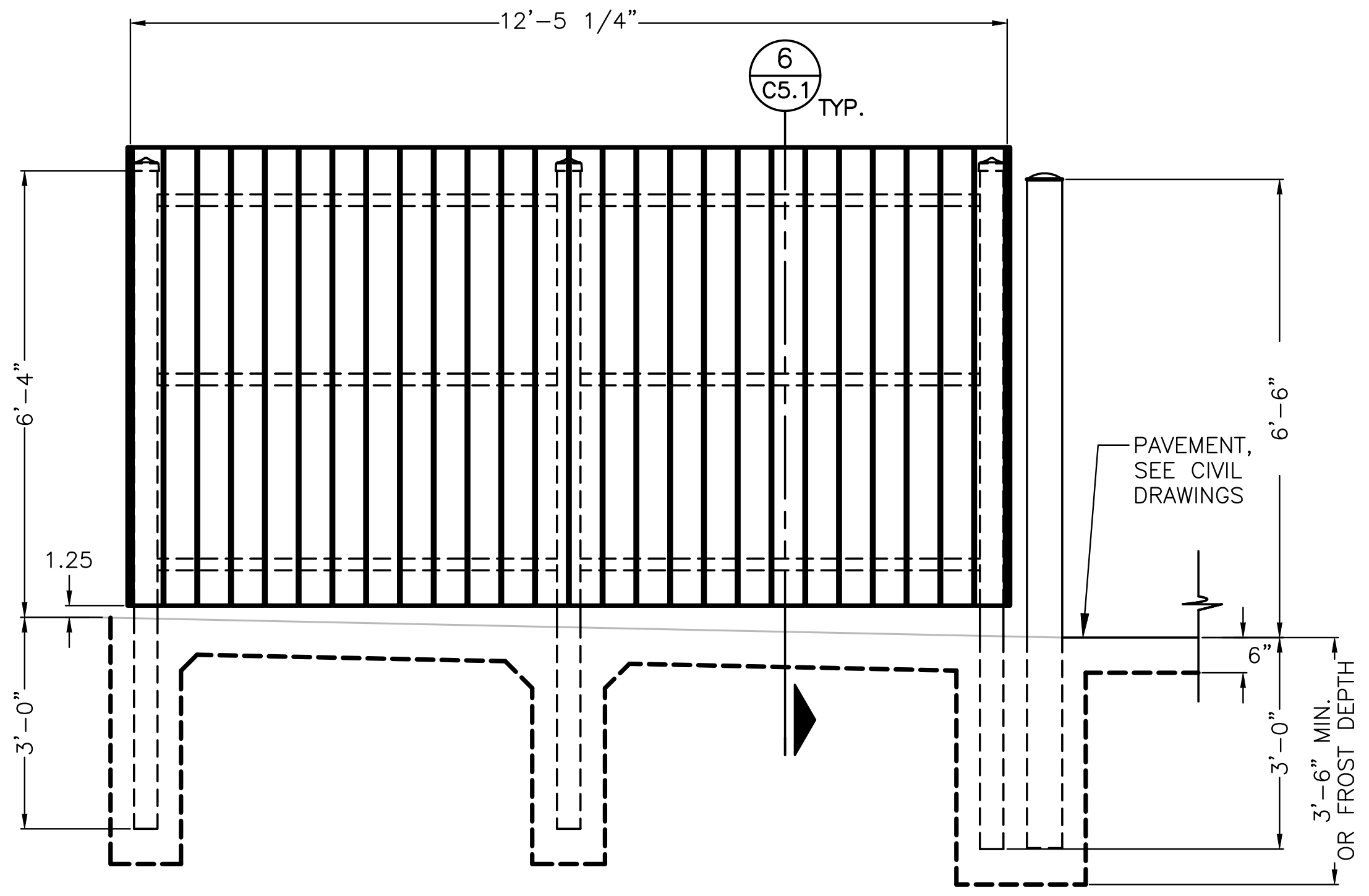
A. CONCRETE SEALER: 'SCOFIELD' CEMENTONE CLEAR SEALER. APPLY PER MANUFACTURER'S RECOMMENDATIONS.

B. OPTIONAL: CONCRETE COLOR HARDENER: 'SCOFIELD' LITHOCHROME, A33 "CLASSIC GREY" APPLY PER MANUFACTURER'S RECOMMENDATIONS.



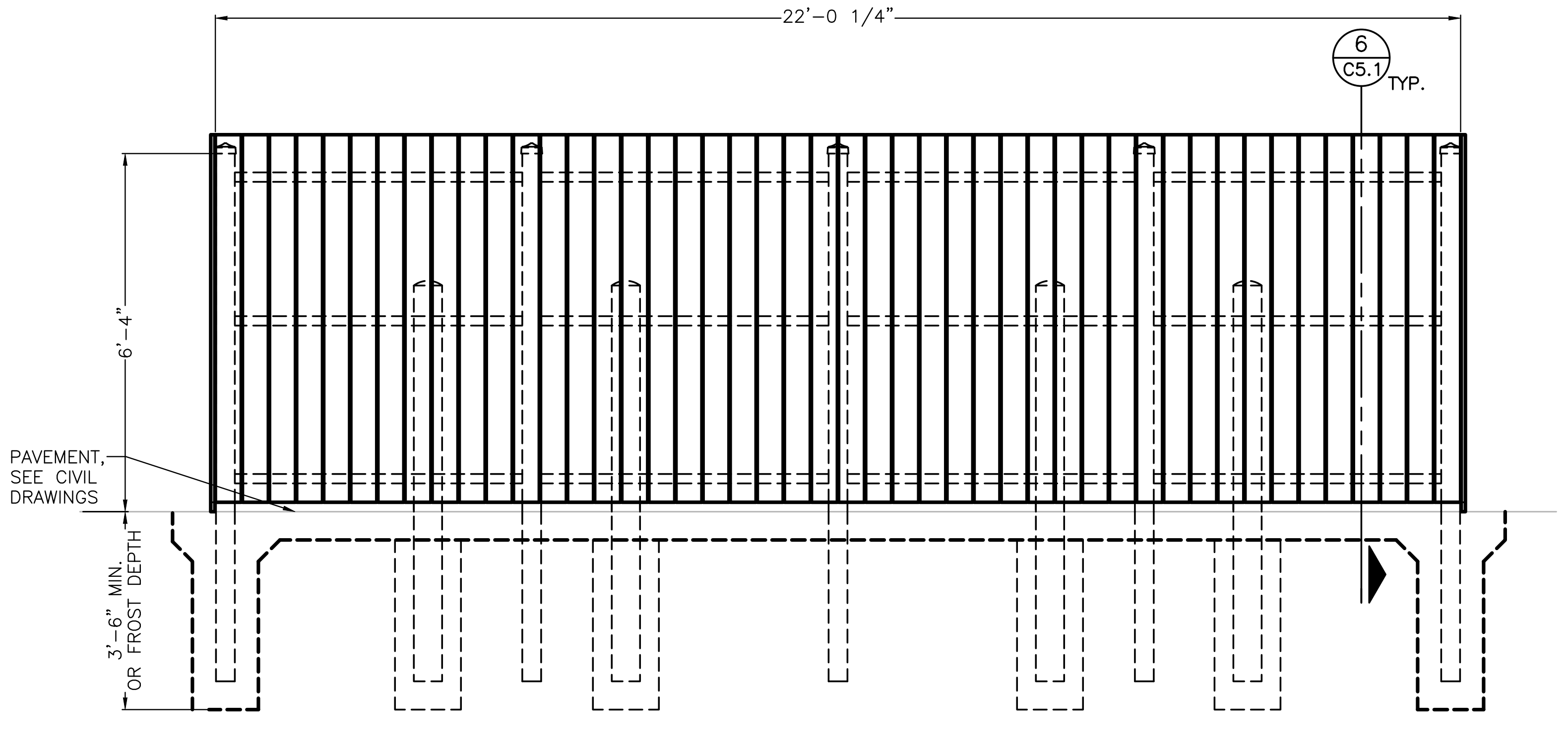
4 TRASH ENCLOSURE FRONT ELEVATION

SCALE: 3/8" = 1'-0"



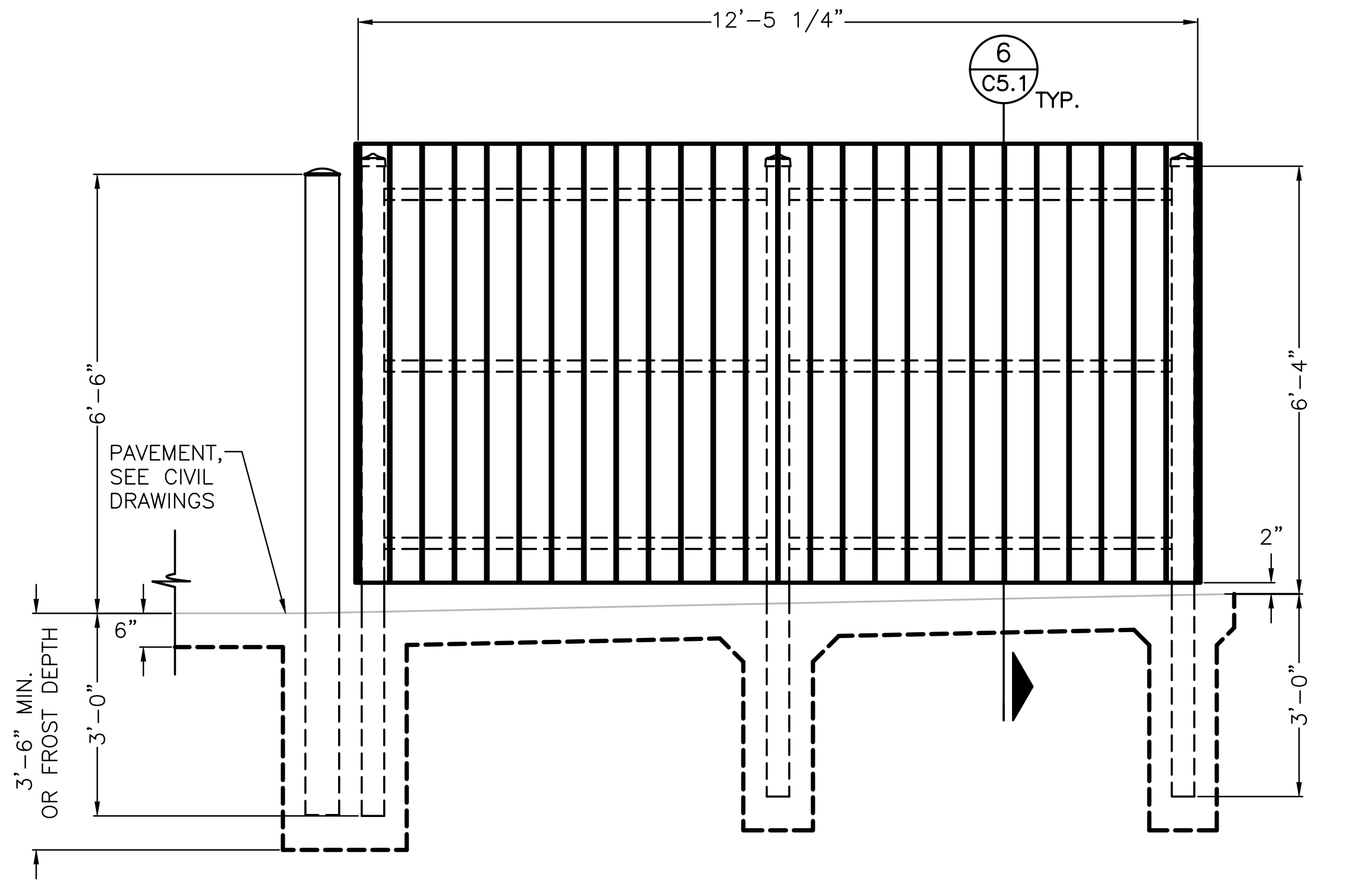
5 TRASH ENCLOSURE SIDE ELEVATION

SCALE: 3/8" = 1'-0"



2 TRASH ENCLOSURE REAR ELEVATION

SCALE: 3/8" = 1'-0"



3 TRASH ENCLOSURE SIDE ELEVATION

SCALE: 3/8" = 1'-0"

SITE NUMBER:	13006
BASE MODEL:	2018 PROTOTYPE
ASSET TYPE:	COMPANY
CLASSIFICATION:	NEW
OWNER:	COMPANY
BASE VERSION:	2018
UPGRADE CLASSIFICATION:	COMPANY NEW BUILD
PROJECT YEAR:	2018
FURNITURE PACKAGE:	XXX
DESIGN BULLETINS:	–

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CONSULTING
ENGINEERS, INC.

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BARTLETT, TENNESSEE 38133
PH. (901) 384-0404 • FX. (901) 384-0710
AR CORPORATION #397

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PROJECT TYPE: 2018 CIVIL PROTOTYPE

Wendy's

4204 E. JOHNSON AVE.
JONESBORO, AR 72401

REV.	DATE	DESCRIPTION

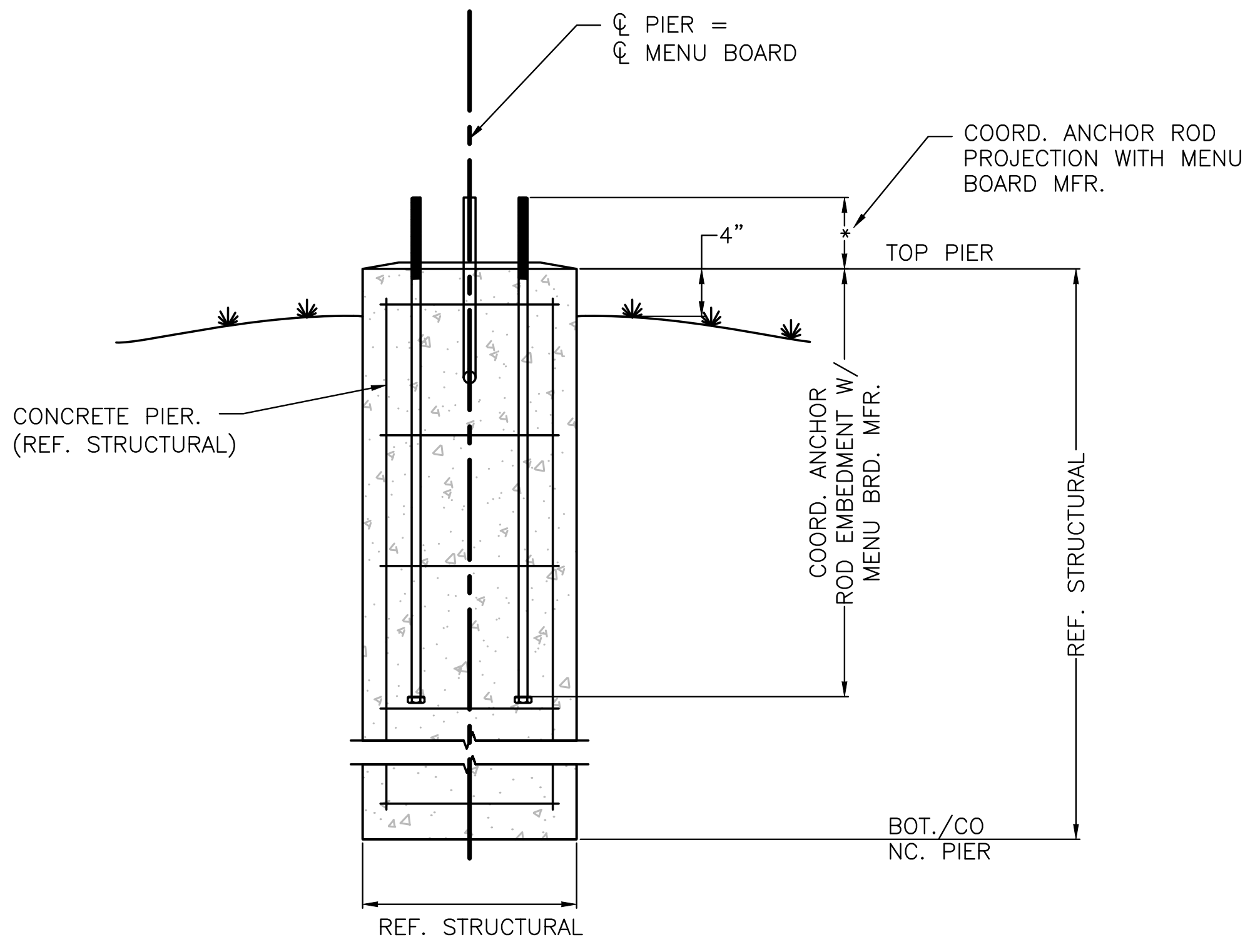
ISSUE DATE:	3/1/19
PROJECT NUMBER:	N/A
DRAWN BY:	TGH
CHECKED BY:	DLC

No. 13316
JOSEPH PARSLEY
3/12/19

SHEET NAME
COMPOSITE TRASH ENCLOSURE DETAILS

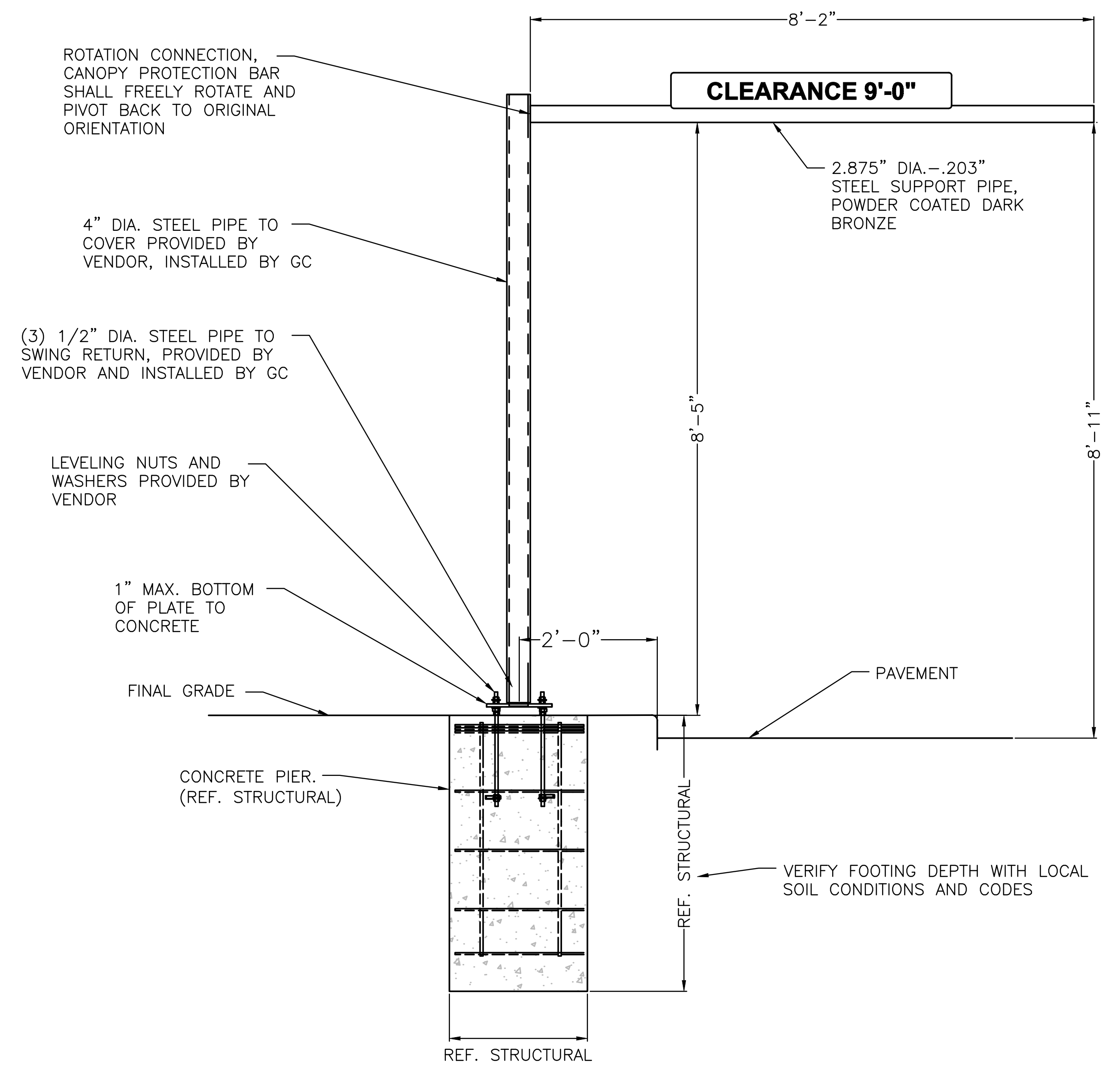
SHEET NUMBER

C5.1



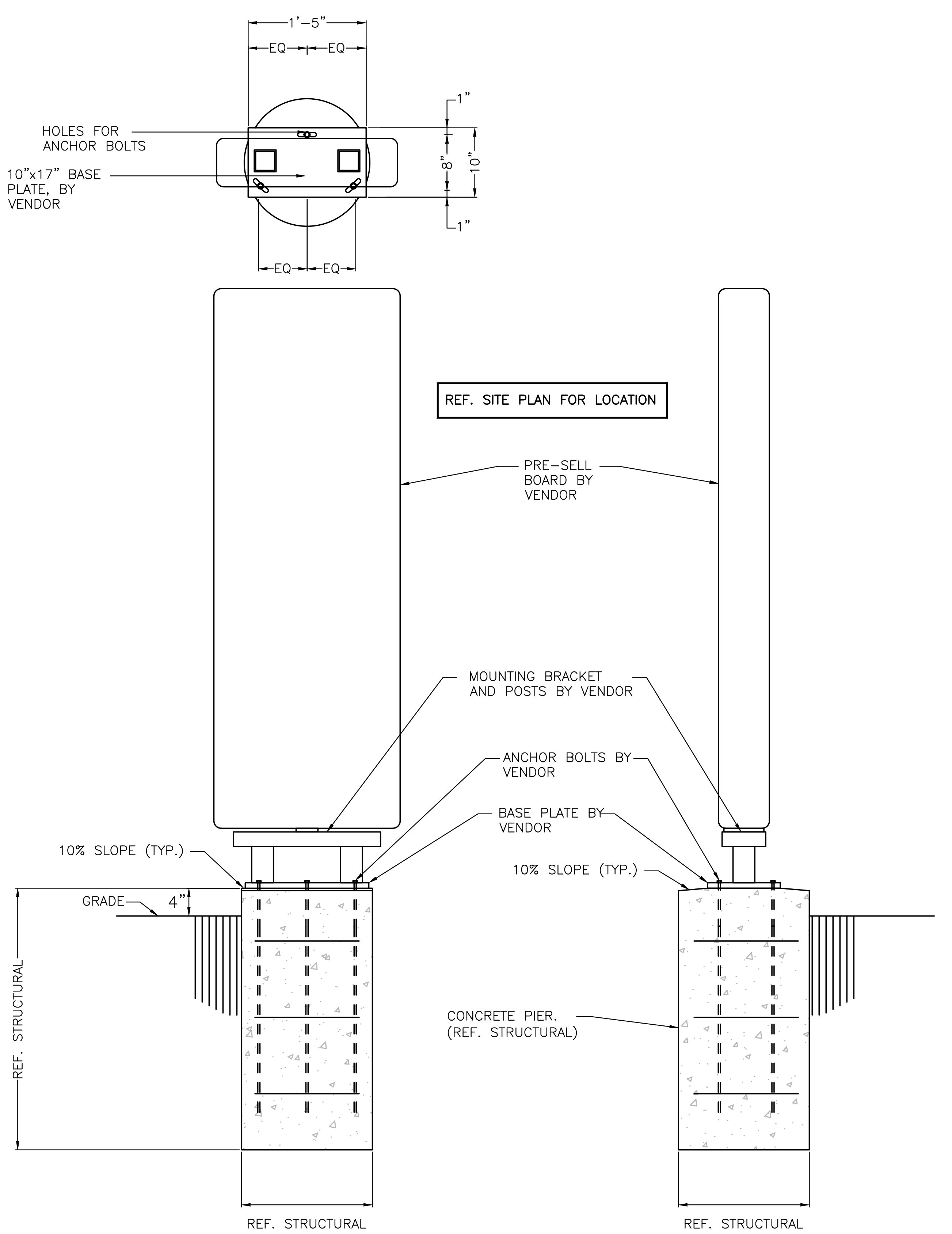
5 MENU BPOARD FOOTING

SCALE: 3/4" = 1'-0"



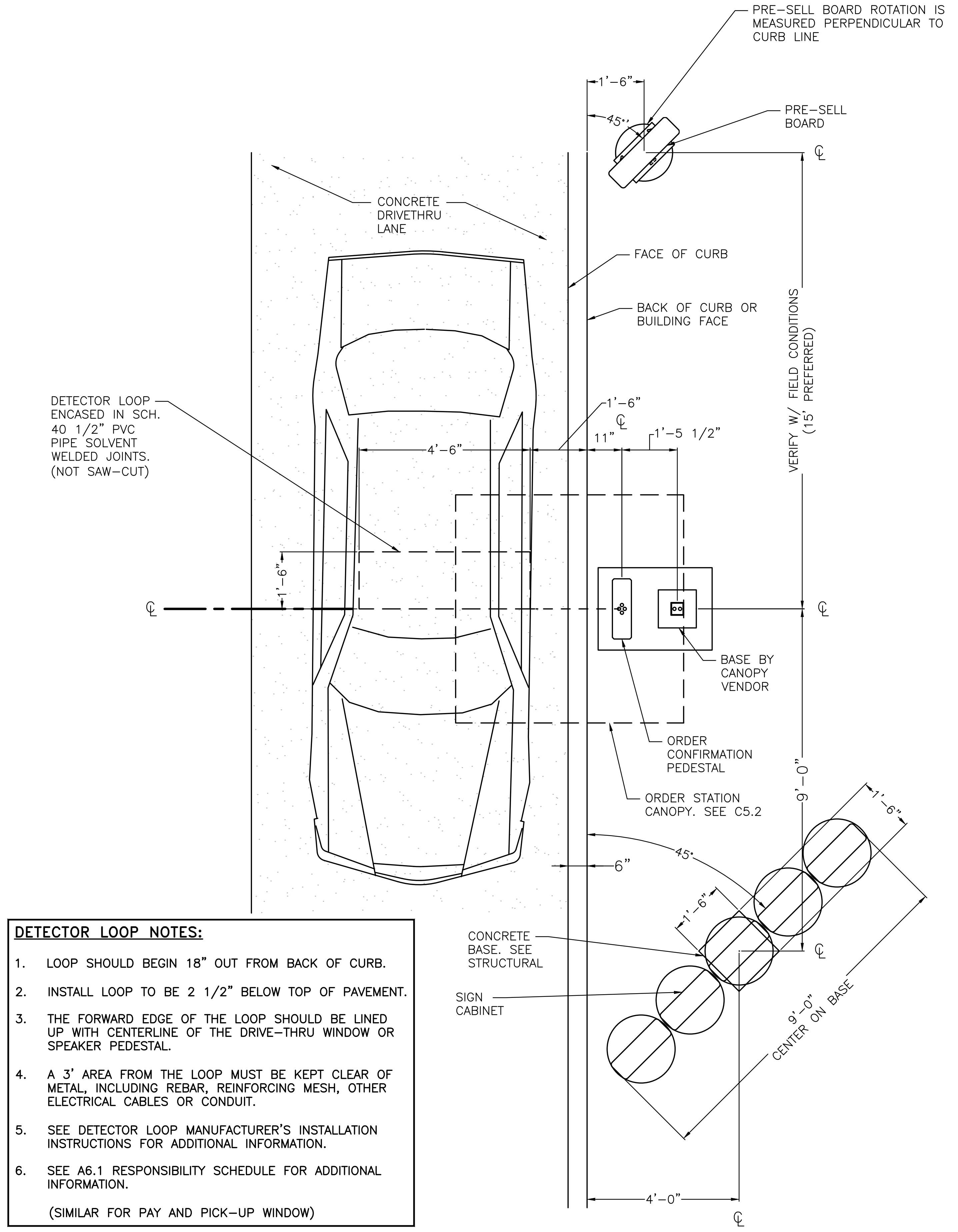
6 CANOPY PROTECTION BAR

SCALE: 1/2" = 1'-0"



7 PRE-SELL BOARD FOOTING

SCALE: 3/4" = 1'-0"



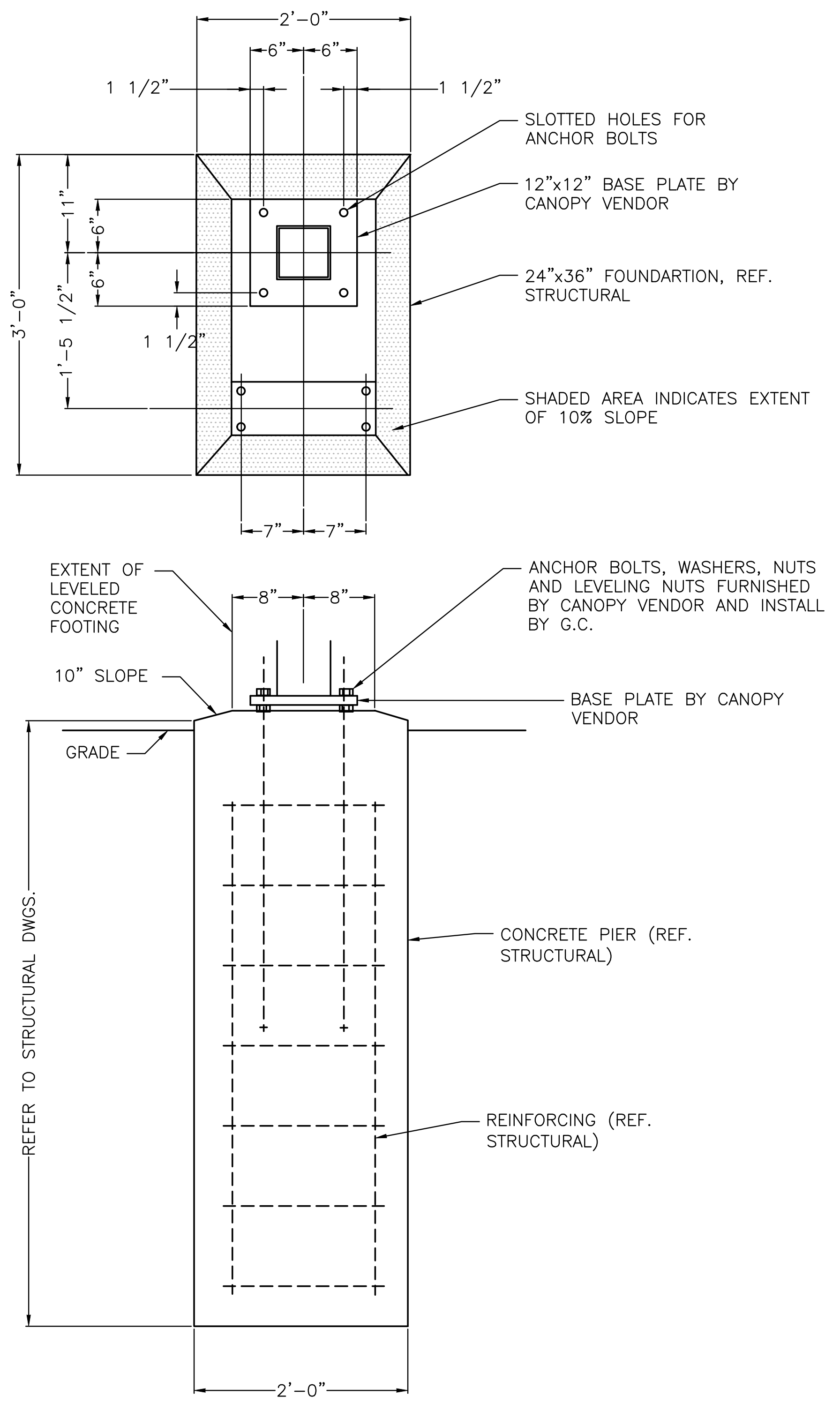
DETECTOR LOOP NOTES:

1. LOOP SHOULD BEGIN 18" OUT FROM BACK OF CURB.
2. INSTALL LOOP TO BE 2 1/2" BELOW TOP OF PAVEMENT.
3. THE FORWARD EDGE OF THE LOOP SHOULD BE LINED UP WITH CENTERLINE OF THE DRIVE-THRU WINDOW OR SPEAKER PEDESTAL.
4. A 3' AREA FROM THE LOOP MUST BE KEPT CLEAR OF METAL, INCLUDING REBAR, REINFORCING MESH, OTHER ELECTRICAL CABLES OR CONDUIT.
5. SEE DETECTOR LOOP MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION.
6. SEE A6.1 RESPONSIBILITY SCHEDULE FOR ADDITIONAL INFORMATION.

(SIMILAR FOR PAY AND PICK-UP WINDOW)

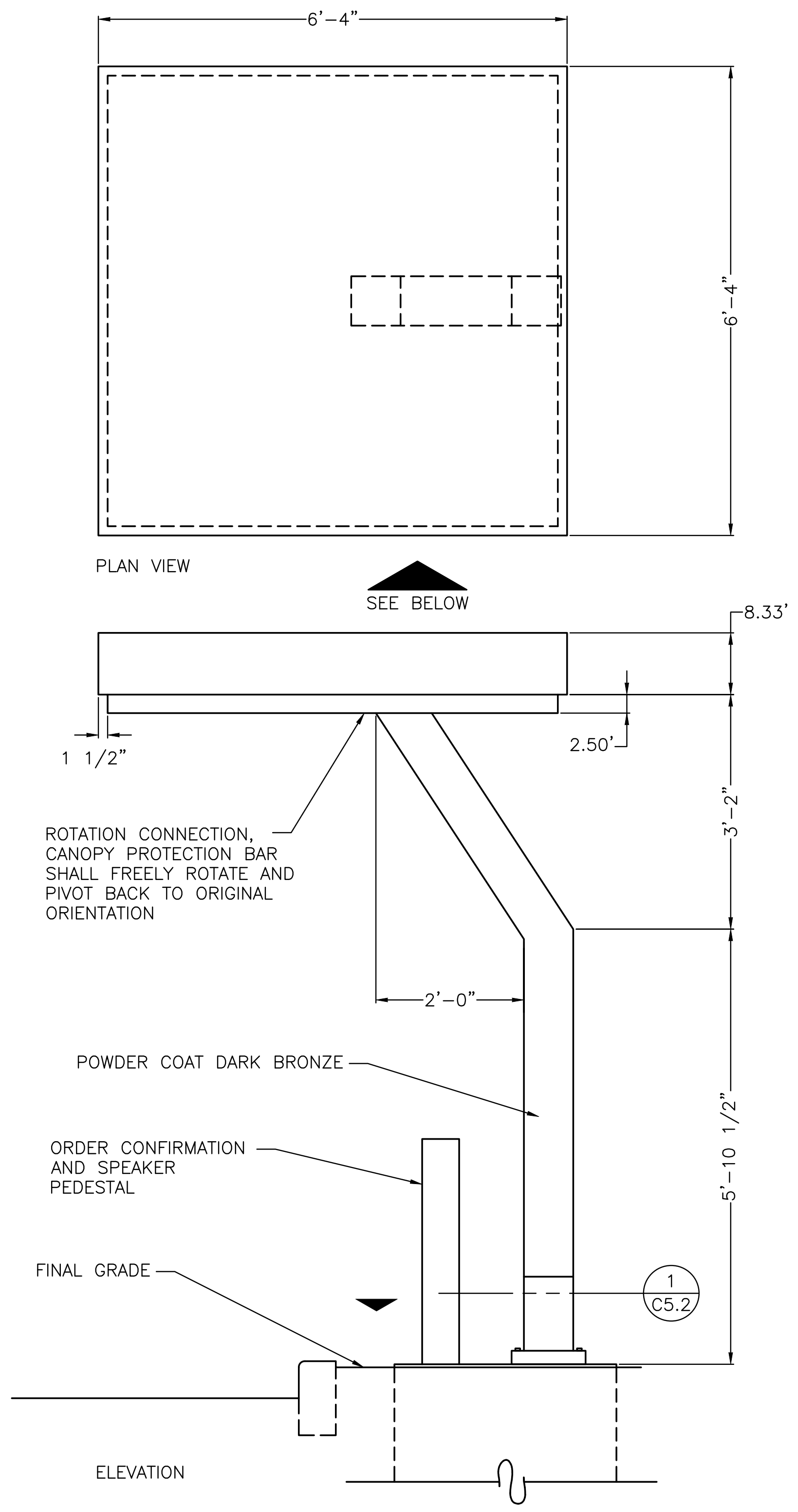
1 ORDER STATION PLAN VIEW

SCALE: 3/8" = 1'-0"



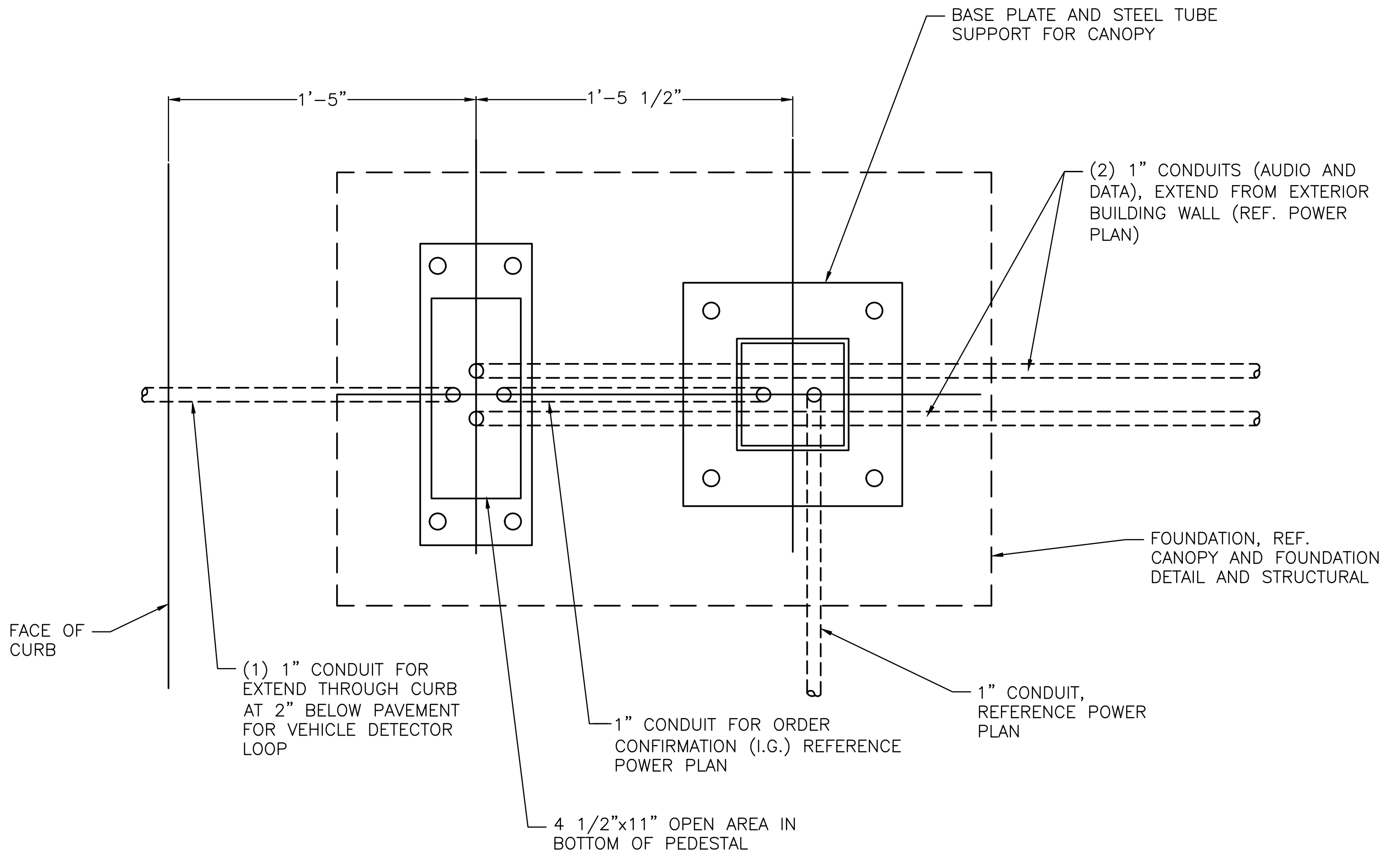
2 CANOPY FOOTING SECTION

SCALE: 3/4" = 1'-0"



3 ORDER STATION CANOPY

SCALE: 1/2" = 1'-0"



4 ORDER STATION CANOPY FOOTING

SCALE: 1 1/2" = 1'-0"

SITE NUMBER:	13006
BASE MODEL:	2018 PROTOTYPE
ASSET TYPE:	COMPANY
CLASSIFICATION:	NEW
OWNER:	COMPANY
BASE VERSION:	2018
UPGRADE CLASSIFICATION:	COMPANY NEW BUILD
PROJECT YEAR:	2018
FURNITURE PACKAGE:	XXX
DESIGN BULLETINS:	–

CARLSON
CONSULTING
ENGINEERS, INC.
7068 LEDGESTONE COMMONS
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AR CORPORATION #397

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3 business days
prior to excavation:

PROJECT TYPE: 2018 CIVIL PROTOTYPE

Wendy's

4204 E. JOHNSON AVE.
JONESBORO, AR 72401

REV.	DATE	DESCRIPTION

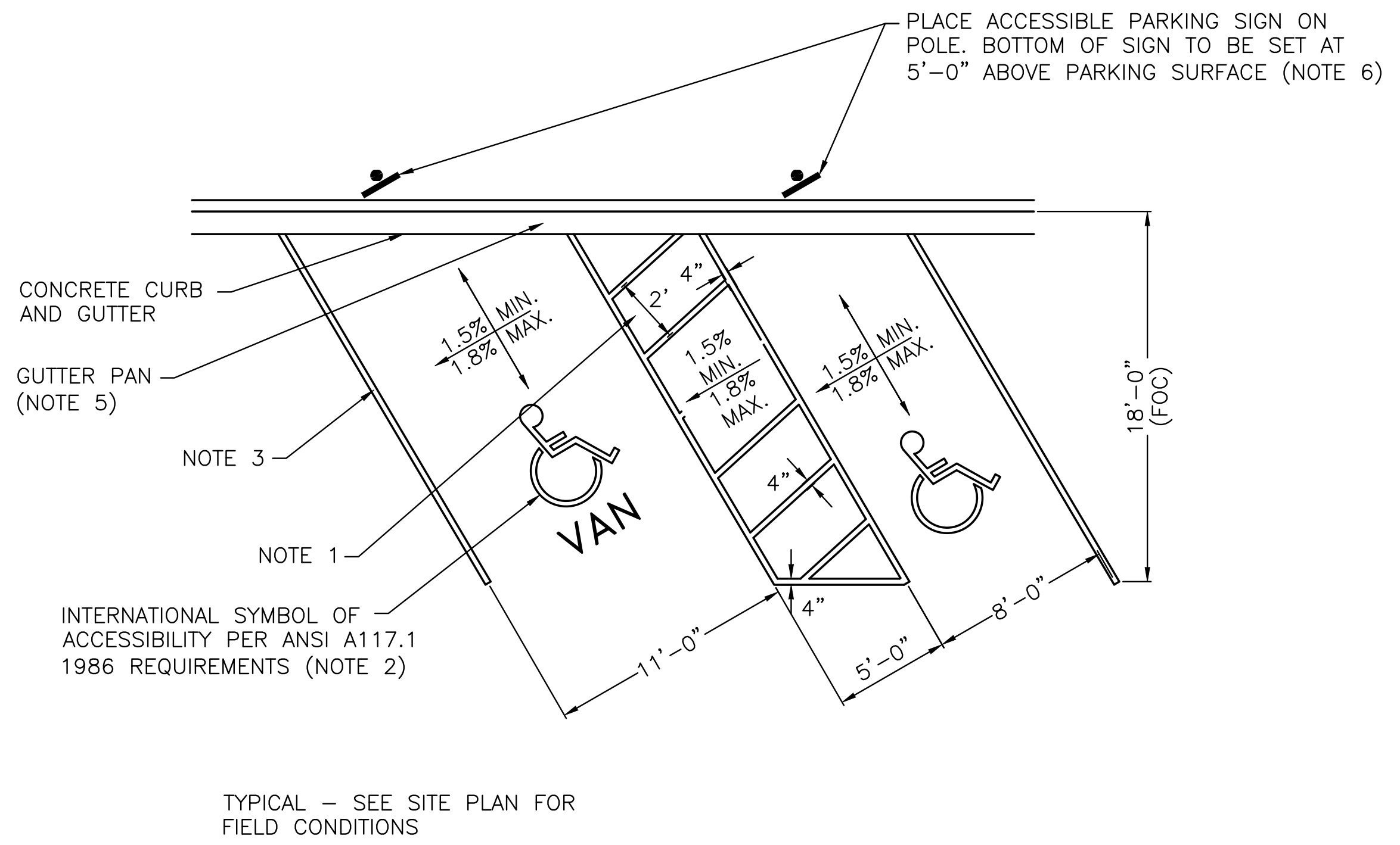
ISSUE DATE:	3/1/19
PROJECT NUMBER:	N/A
DRAWN BY:	TGH
CHECKED BY:	DLC

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 13316
JOSEPH PARSLEY
3/12/19

SHEET NAME
STANDARD DRIVE-THRU
EQUIPMENT DETAILS

SHEET NUMBER

C5.2



TYPICAL – SEE SITE PLAN FOR FIELD CONDITIONS

ACCESSIBILITY NOTES:

NOTE 1 – LOCATE ACCESSIBLE PARKING SPACES AND/OR RAMP PER SITE PLAN

NOTE 2 – INTERNATIONAL SYMBOL WITHOUT BACKGROUND.

NOTE 3 – FOLLOW LOCAL CODES FOR PARKING STRIPE AND ACCESSIBLE SYMBOL PAINT COLOR PAINT IS TO BE APPLIED PER THE MANUFACTURER'S RECOMMENDATIONS, WITH MIN. OF TWO COATS.

NOTE 4 – DETECTABLE WARNINGS ARE NOT REQUIRED ON PRIVATE PROPERTY.

NOTE 5 – FILL OR REPLACE GUTTER WITH CONCRETE FLUSH WITH PARKING ACCESS ISLE. TAPER FROM EDGE OF ACCESS ISLE TO EXISTING GUTTER WITH A MAXIMUM SLOPE OF 1.8%.

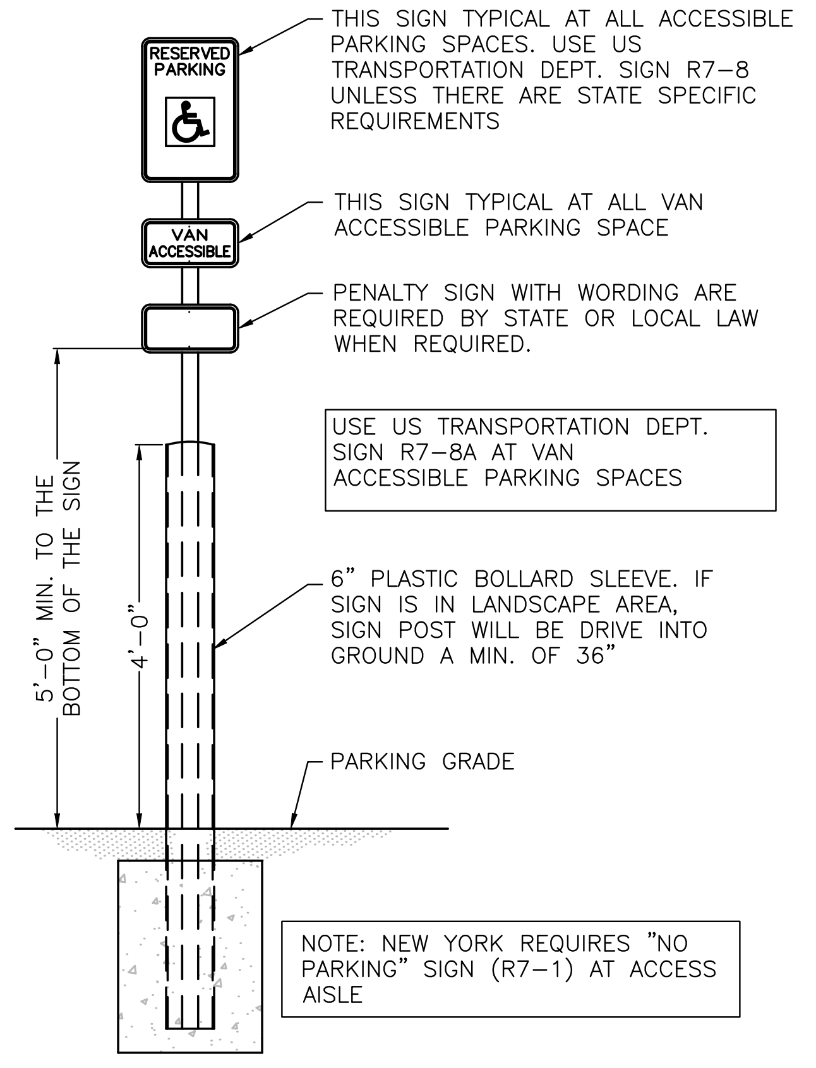
NOTE 6 – SIGNS MOUNTED TO BUILDING OR ON POSTS MAY BE UNIQUE TO THE JURISDICTION. IF MUNICIPALITY REQUIRES A SPECIAL SIGN, CONTRACTOR IS TO RE-CREATE SIGN ON SAME MATERIAL AS THE STANDARD SIGNAGE.

NOTE 7 – PROVIDE JOINTS IN CURB AND GUTTERS EVERY 10'-0".

6 STANDARD BARRIER FREE PARKING SPACE DETAIL

NO SCALE

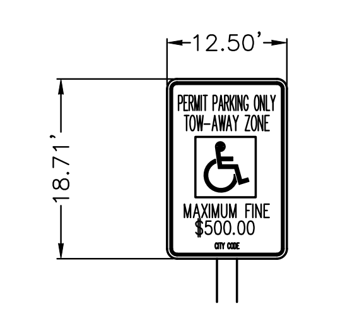
GENERAL NOTE:
VERIFY RESERVED PARKING SIGN REQUIREMENTS WITH LOCAL JURISDICTION.



USE US TRANSPORTATION DEPT. SIGN R7-8A AT VAN ACCESSIBLE PARKING SPACES

NOTE: NEW YORK REQUIRES "NO PARKING" SIGN (R7-1) AT ACCESS AISLE

GEORGIA

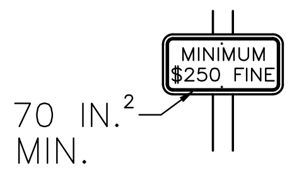


NOTE: PROVIDE IDENTIFICATION SIGNS AS REQUIRED PER OCGA 40-6-10-Part 2

OHIO (US TRANS DEPT SIGN R7-8A-OH)

NOTE: PROVIDE IDENTIFICATION SIGNS AS REQUIRED PER ORC 4511.69

CALIFORNIA



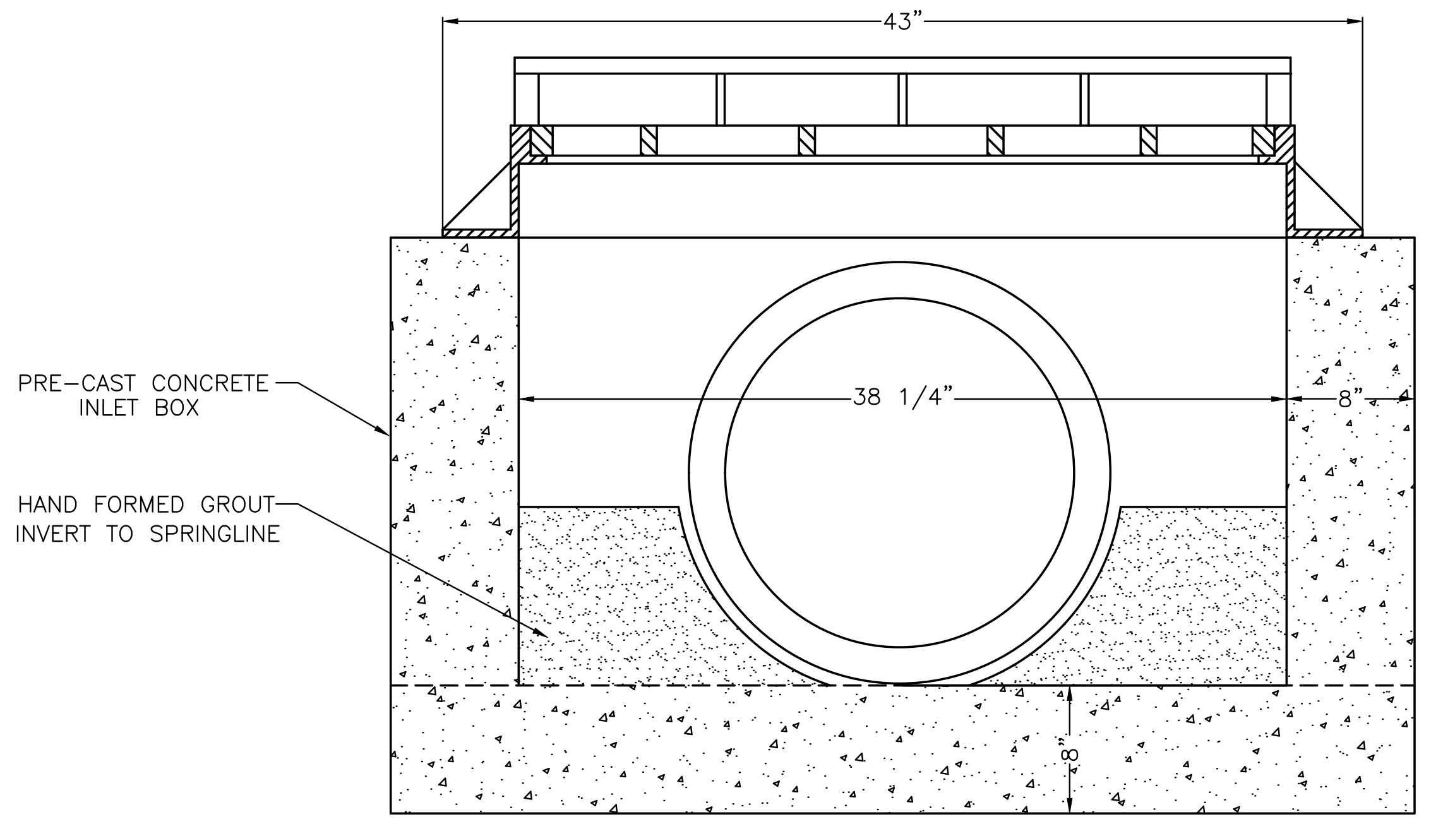
NOTE: PROVIDE IDENTIFICATION SIGNS AS REQUIRED PER CBC 11B-502.6

ILLINOIS

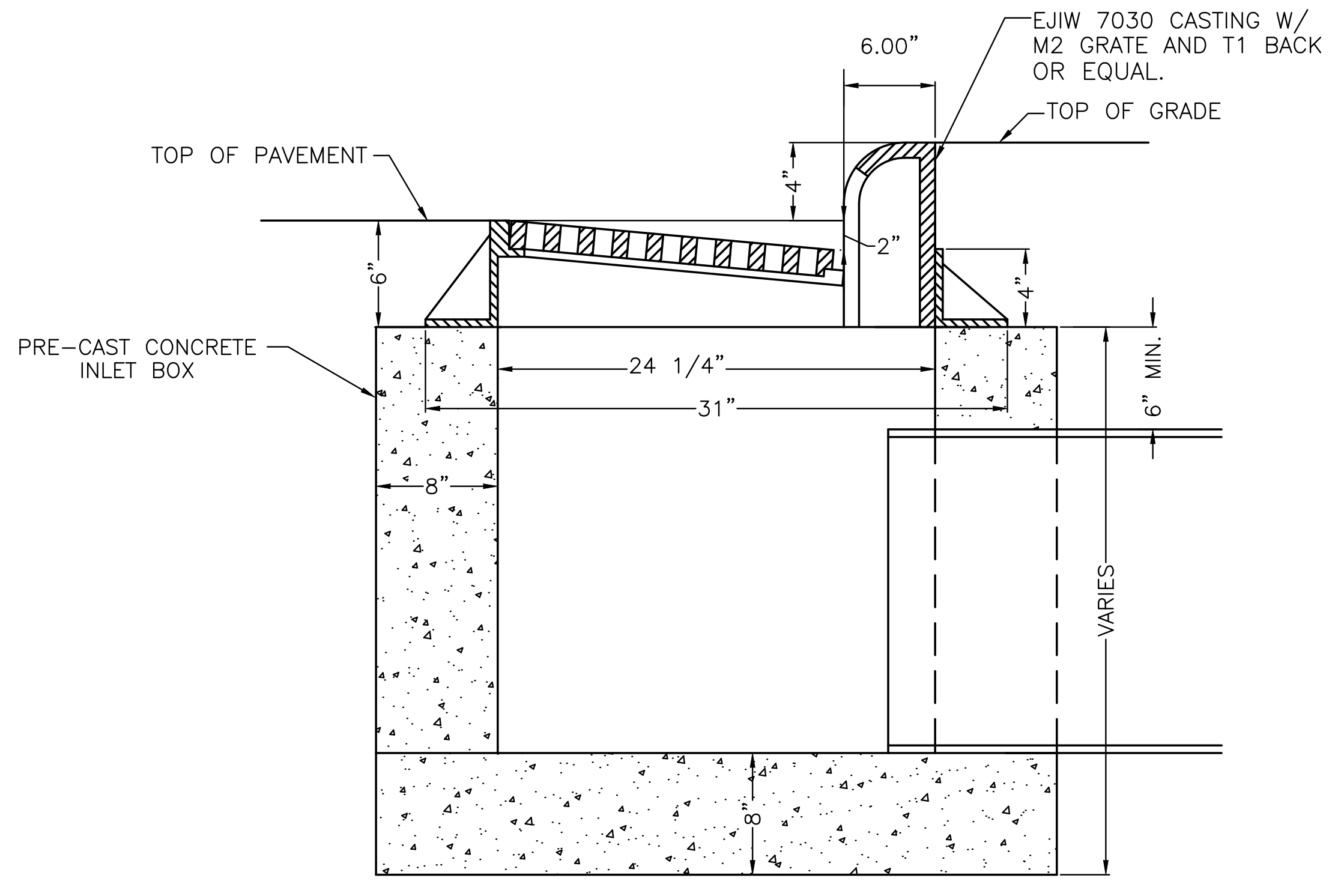
NOTE: PROVIDE IDENTIFICATION SIGNS AS REQUIRED PER IAC TITLE 71-400

7 VAN ACCESSIBLE BARRIER FREE PARKING SIGN

NO SCALE



FRONT VIEW



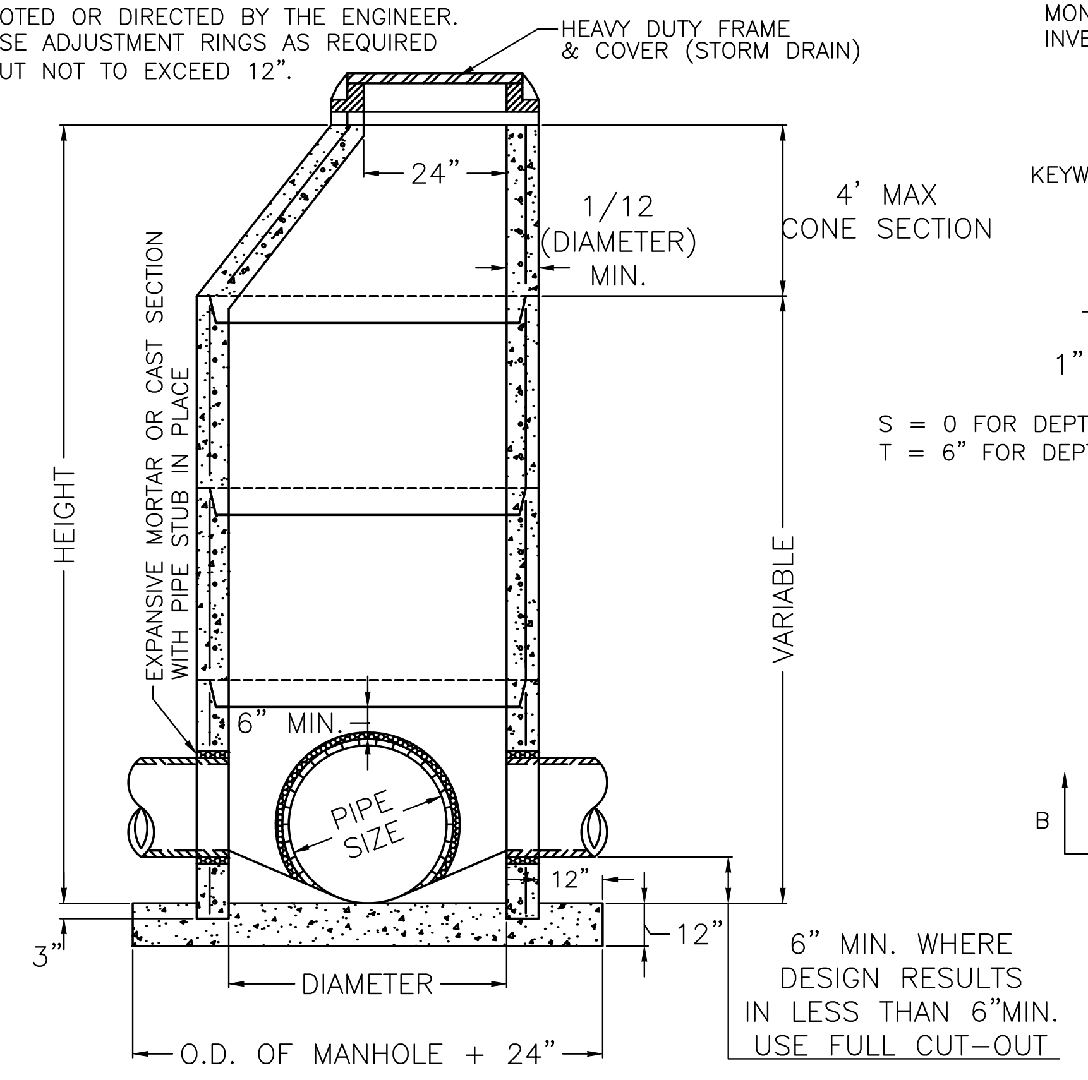
SECTION A-A

CURB INLET DETAIL
N.T.S.

8 CURB INLET

NO SCALE

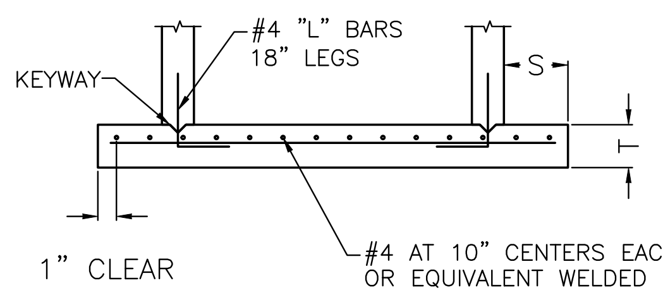
NOTE: TOP OF MANHOLE TO BE LEVEL WITH FINISH GRADE UNLESS OTHERWISE NOTED OR DIRECTED BY THE ENGINEER. USE ADJUSTMENT RINGS AS REQUIRED BUT NOT TO EXCEED 12".



PRECAST BASE SECTION SET ON CONCRETE BLOCKS FOUNDATION SLAB AND INVERT POURED MONOLITHIC.

SECTION "A"-"A"

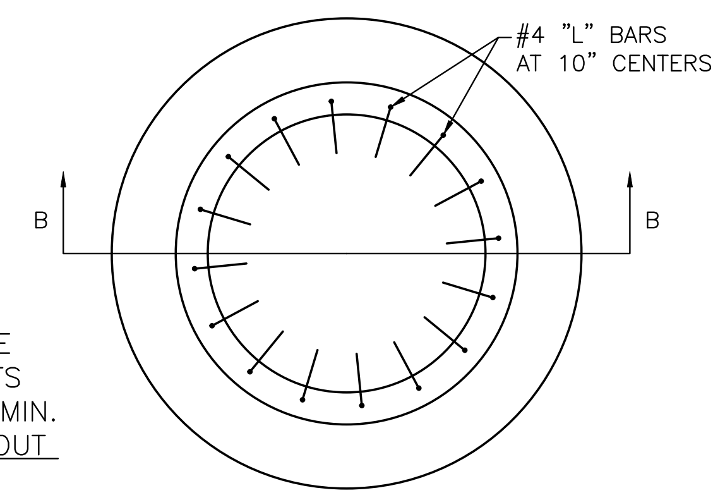
FOUNDATION SLAB AND BASE SECTION MAY BE POURED MONOLITHIC OR SEPARATELY WITH A KEYWAY. INVERT SHALL BE POURED AFTER PLACEMENT OF MANHOLE.



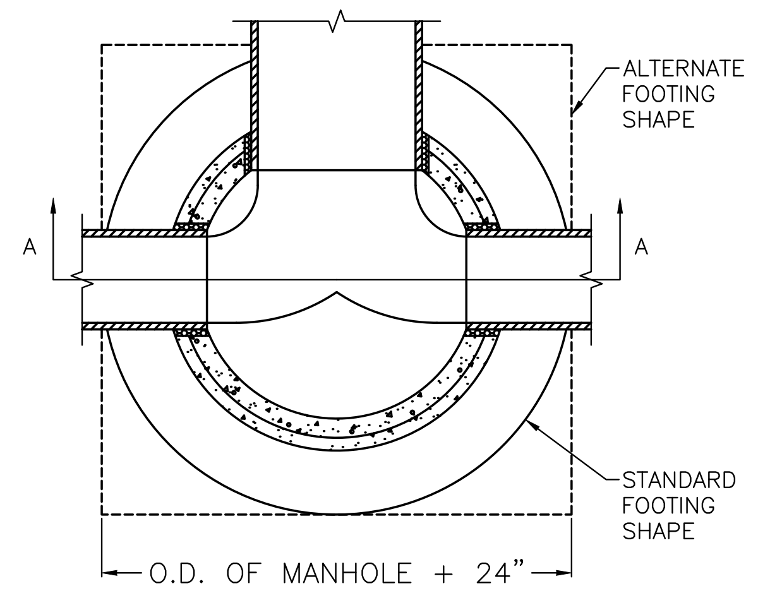
S = 0 FOR DEPTHS LESS THAN OR EQUAL TO 6' : S = 9" FOR DEPTHS GREATER THAN 6'.
T = 6" FOR DEPTHS LESS THAN OR EQUAL TO 6' : T = 9" FOR DEPTHS GREATER THAN 6'.

SECTION "B"-"B"

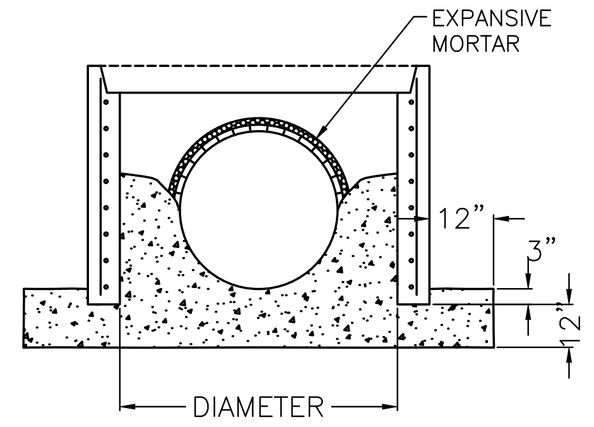
BASE SECTION DIMENSIONS	
SIZE OF PIPE	MIN. DIA.
24" OR SMALLER	48"
30" – 36"	60"
42" – 48"	72"



PRECAST FOUNDATION SLAB



PLAN OF FOOTING



PRECAST BASE SECTION SET ON CONCRETE BLOCKS FOUNDATION SLAB AND INVERT POURED MONOLITHIC.

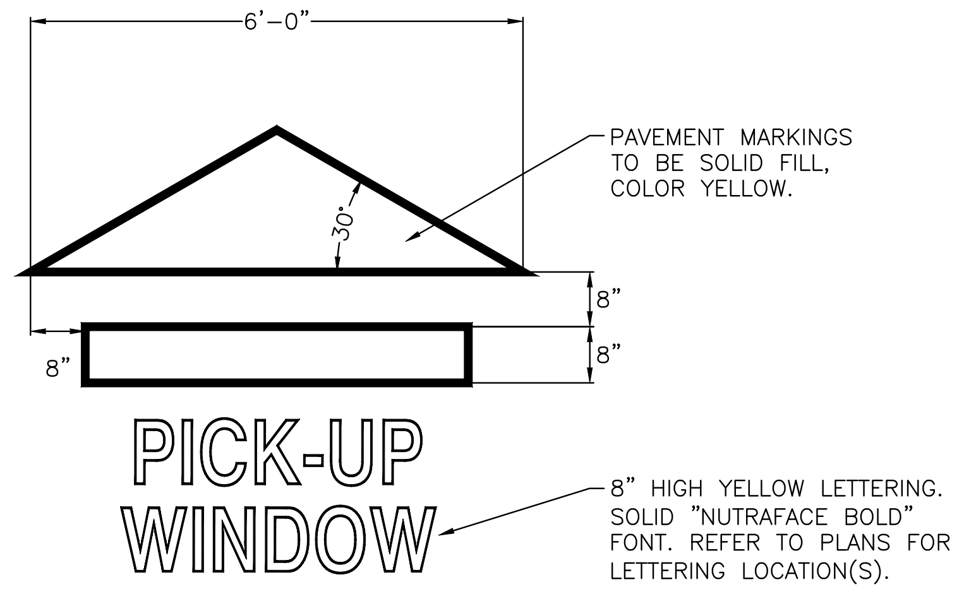
ALTERNATE FOOTING

GENERAL NOTES:

1. PRECAST MANHOLE SHALL BE MANUFACTURED PER LATEST ASTM C478 AND C913 SPECIFICATIONS.
2. THE CONFIGURATION DETAILS SHOWN ARE DESCRIPTIVE ONLY AND MAY BE VARIED TO CONFORM WITH AN ESTABLISHED MANUFACTURING PROCEDURE.
3. FORMED OR CUT OUT OPENINGS SHALL BE PROVIDED WHERE PIPE INLETS AND OUTLETS ARE SHOWN ON THE PLANS.
4. THE TOP OF THE INLET SHALL NOT BE SET BELOW THE TOP OF THE OUTLET PIPE.
5. REINFORCEMENT SHALL BE CUT AT PIPE OPENINGS.
6. WHERE PIPES DO NOT ENTER OR EXIT RADIALLY, USE NEXT LARGER SIZE MANHOLE.
7. CIRCUMFERENTIAL REINFORCEMENT SIZE AND PLACEMENT SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS TO A MAXIMUM DEPTH OF 20 FEET. OVER 20 FOOT DEPTH CIRCUMFERENTIAL REINFORCEMENT IS INCREASED TO 0.24 SQUARE INCHES STEEL REQUIRED PER LINEAR FOOT, TO A MAXIMUM DEPTH OF 30 FEET.
8. FOR PIPE CONNECTIONS, A RUBBER GASKET IN ACCORDANCE WITH ASTM RUBBER GASKET SPECIFICATIONS C443 OR C923 AND CAST INTEGRALLY IN MANHOLE MAY BE USED AS AN ALTERNATE TO EXPANSIVE MORTAR.

1 PRECAST JUNCTION BOX

NO SCALE

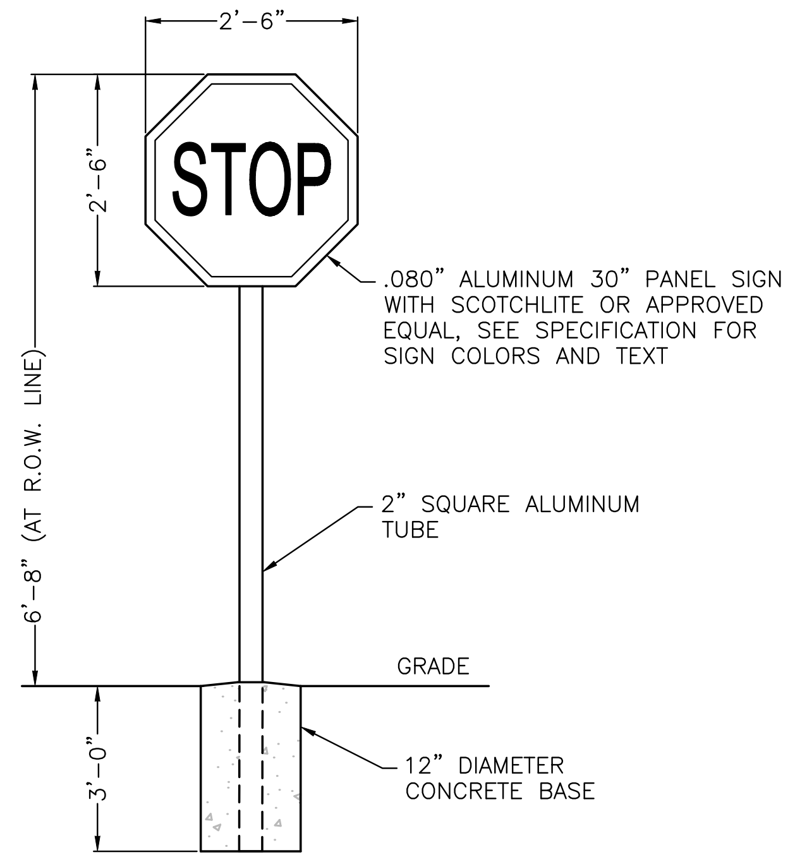


3 PAVEMENT MARKING DETAIL

NO SCALE

2 NOT USED

NO SCALE



STOP SIGNS AT DRIVE EXITS SHALL BE LOCATED BEHIND SIDEWALK.

4 STOP SIGN DETAIL

NO SCALE

5 NOT USED

NO SCALE

SITE NUMBER:	13006
BASE MODEL:	2018 PROTOTYPE
ASSET TYPE:	COMPANY
CLASSIFICATION:	NEW
OWNER:	COMPANY
BASE VERSION:	2018
UPGRADE CLASSIFICATION:	COMPANY NEW BUILD
PROJECT YEAR:	2018
FURNITURE PACKAGE:	XXX
DESIGN BULLETINS:	–

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AR CORPORATION #397

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3 business days prior to excavation:

PROJECT TYPE:	2018 CIVIL PROTOTYPE

Wendy's

4204 E. JOHNSON AVE.
JONESBORO, AR 72401

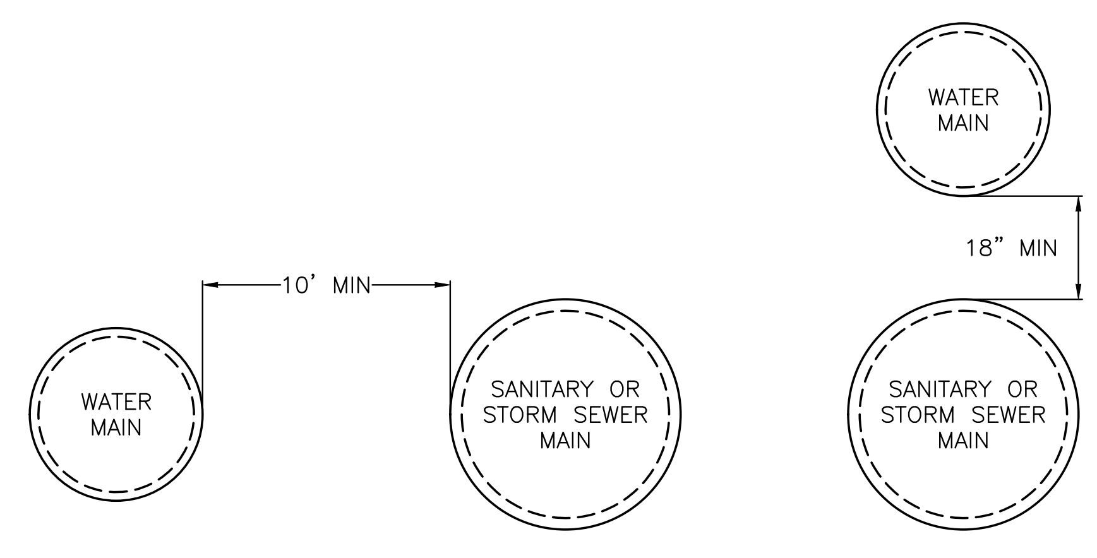
REV. DATE	DESCRIPTION

ISSUE DATE:	3/1/19
PROJECT NUMBER:	N/A
DRAWN BY:	TGH
CHECKED BY:	DLC

No. 13316
JOSEPH PARSLEY
3/12/19

SHEET NAME
MISCELLANEOUS DETAILS

SHEET NUMBER
C5.3

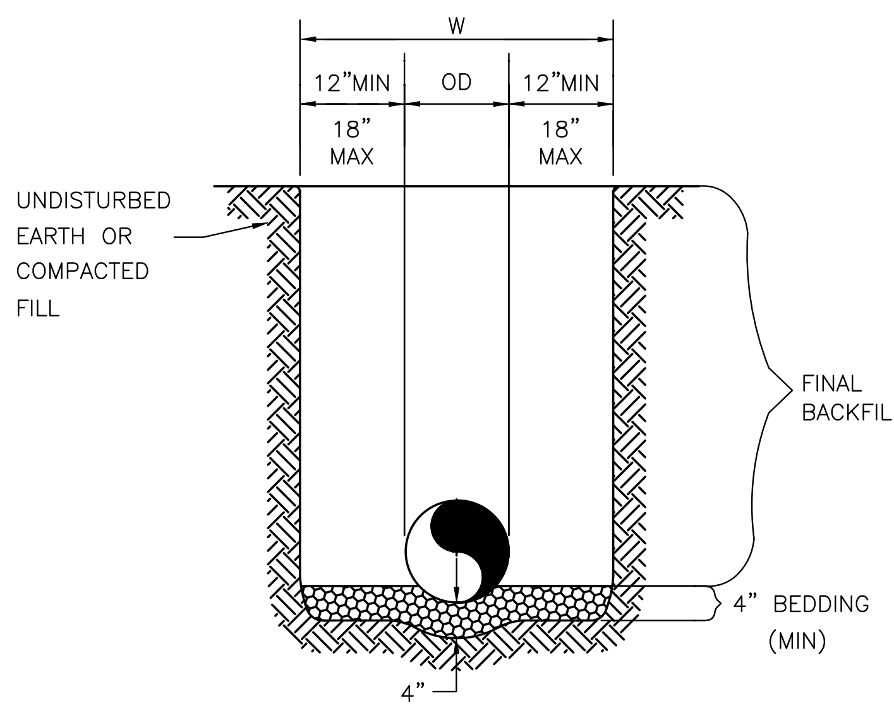


HORIZONTAL SEPARATION

VERTICAL SEPARATION

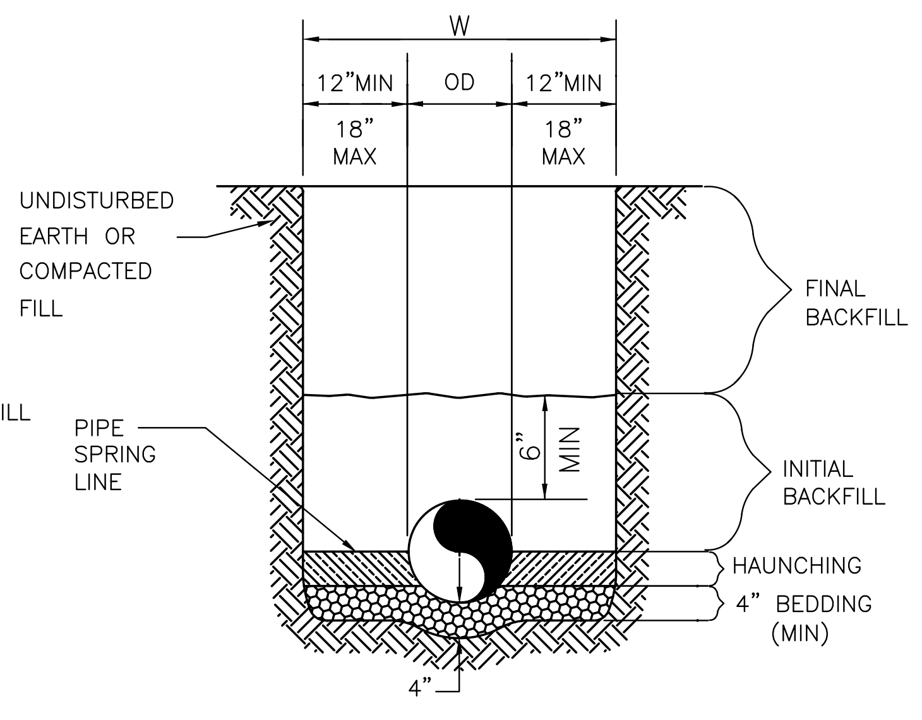
3 WATER/SEWER CROSSING

NO SCALE



REINFORCED CONCRETE PIPE (RCP)
AND SPIRAL RIB PIPE
SMALLER THAN 60" Ø

NTS



ALL OTHER PIPES
INCLUDING SPIRAL RIB
PIPE 60"Ø AND LARGER

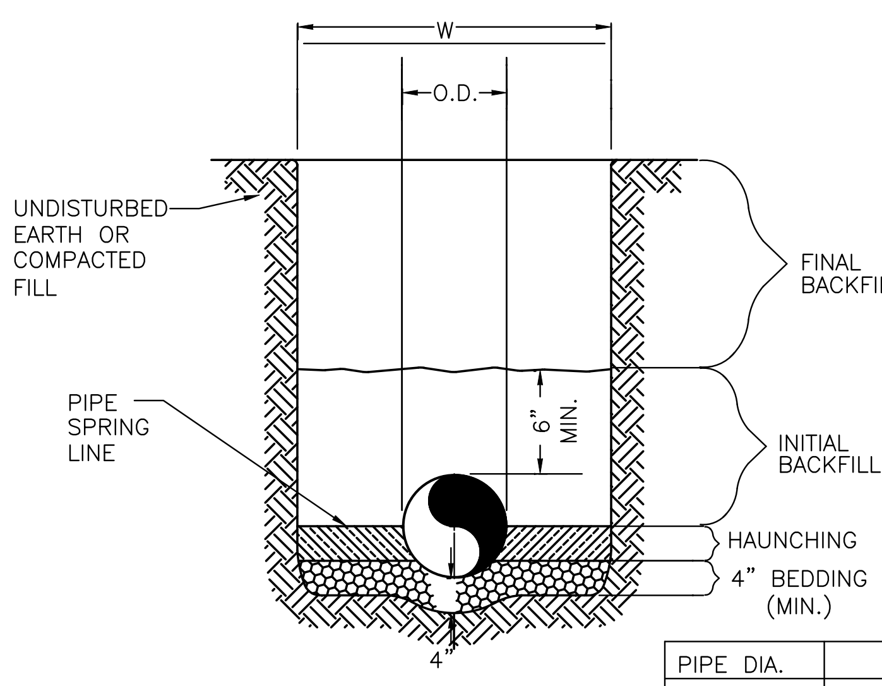
NTS

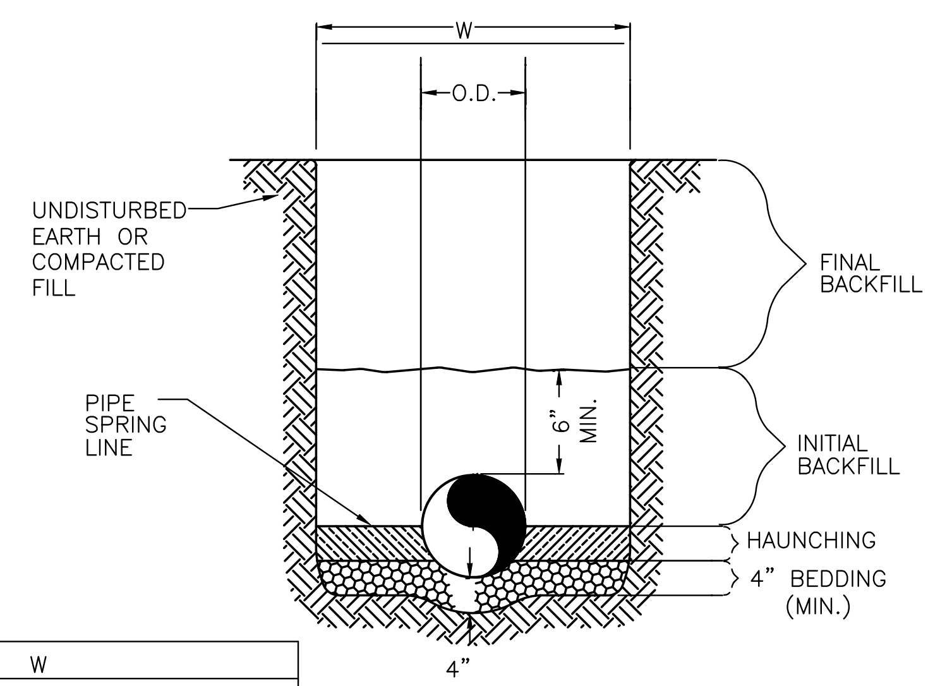
GENERAL NOTES

1. BEDDING SHALL BE CLASS I–A WORKED BY HAND. IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I–B COMPACTED TO 95% STANDARD PROCTOR.
2. HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS I–A OR CLASS I–B OR CLASS II COMPACTED TO 95% PROCTOR.
3. INITIAL BACKFILL SHALL BE CLASS I–A WORKED BY HAND, OR CLASS I–B OR CLASS II COMPACTED TO 95% STANDARD PROCTOR.
4. INITIAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS III COMPACTED TO 95% STANDARD PROCTOR.
5. FINAL BACKFILL SHALL BE CLASS I, II, OR III COMPACTED AS NOTED IN NOTES 3. AND 4.
6. FINAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS IV–A COMPACTED TO 95% STANDARD PROCTOR.
7. ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321–LATEST EDITION.
8. ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 698. CLASS III AND IV–A MATERIALS SHALL BE COMPACTED NEAR OPTIMUM MOISTURE CONTENT.
9. FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3".
10. ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES. (SEE SPECIFICATIONS)
11. BEDDING MATERIALS USED IN CONJUNCTION WITH ANY PIPES WHICH PENETRATE A LEVEE OR ROAD EMBANKMENT, SHALL BE LOW PERMEABILITY, COHESIVE SOIL. SOILS EXHIBITING HIGH SHRINK/SWELL POTENTIAL OR CONTAINING GREATER THAN 5% ORGANICS SHALL NOT BE USED.

4 STORM SEWER TRENCHING & BEDDING

NO SCALE





PIPE DIA.	W
≤12"	O.D. OF PIPE + (12" TO 18")
>12"	≥ O.D. OF PIPE + 18"

WATER LINE

N.T.S.

SANITARY SEWER

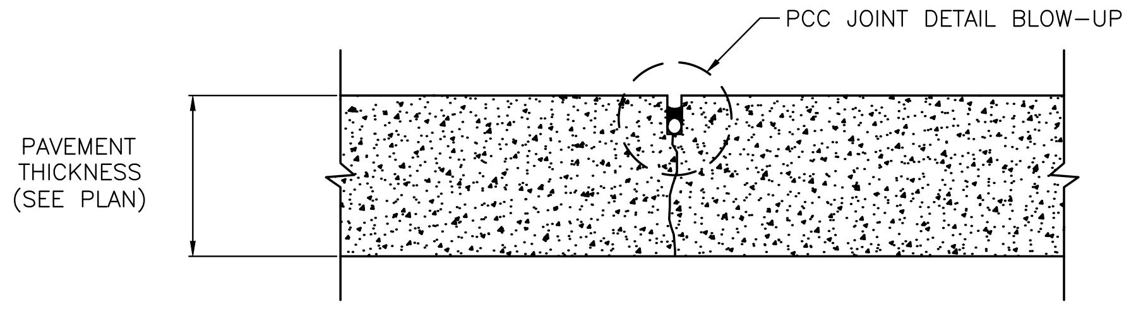
N.T.S.

GENERAL NOTES

1. BEDDING SHALL BE CLASS I–A WORKED BY HAND. IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I–B COMPACTED TO 95% STANDARD PROCTOR.
2. HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS I–A OR CLASS I–B OR CLASS II COMPACTED TO 95% PROCTOR.
3. INITIAL BACKFILL SHALL BE CLASS I–A WORKED BY HAND, OR CLASS I–B OR CLASS II COMPACTED TO 95% STANDARD PROCTOR.
4. INITIAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS III COMPACTED TO 95% STANDARD PROCTOR.
5. FINAL BACKFILL SHALL BE CLASS I, II, OR III COMPACTED AS NOTED IN NOTES 3. AND 4.
6. FINAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS IV–A COMPACTED TO 95% STANDARD PROCTOR.
7. ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321–89.
8. ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 698. CLASS III AND IV–A MATERIALS SHALL BE COMPACTED NEAR OPTIMUM MOISTURE CONTENT.
9. FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3".
10. ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES. (SEE SPECIFICATIONS)

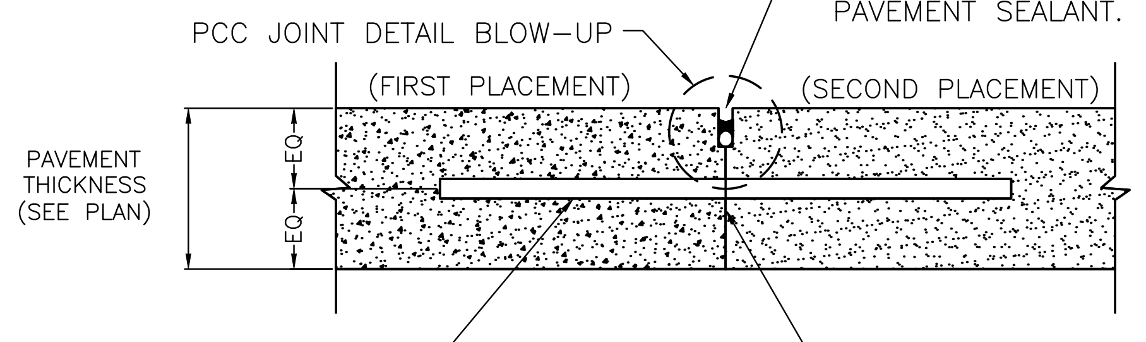
5 UTILITY TRENCHING & BEDDING

NO SCALE



NOTE:
1. SEE PLAN FOR JOINT SPACING. IF JOINTS NOT SHOWN ON PLANS, REFER TO SPECIFICATIONS FOR MAXIMUM JOINT SPACING.

CONTRACTION JOINT

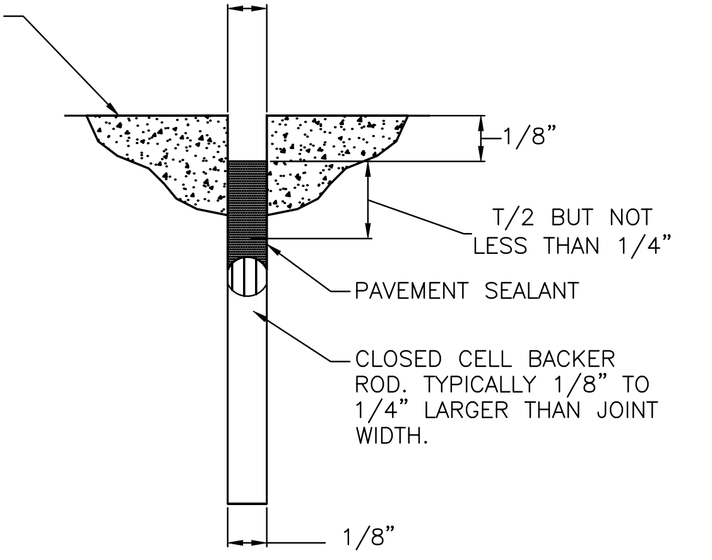


1/8" WIDE BY 1/4 OF PAVEMENT THICKNESS DEEP SAW CUT. FILL WITH PAVEMENT SEALANT. MAKE SAW CUT IMMEDIATELY PRIOR TO INSTALLING PAVEMENT SEALANT.

3/4" DIAMETER DOWEL FOR 6" THICK AND GREATER PAVEMENTS AND 1/2" DIAMETER DOWEL FOR LESS THAN 6" THICK PAVEMENTS. DOWELS TO BE 12" LONG CENTERED WITH JOINT SPACED AT 18" ON CENTER. DOWEL TO BE INSTALLED IN FORM WITH AN APPROVED DOWEL BASKET. LIGHTLY OIL FULL LENGTH OF DOWEL.

APPLY CURING COMPOUND TO SLAB FACE AT A COVERAGE RATE OF 300 SF MAX PER GALLON TO ACT AS A BOND BREAKER.

CONSTRUCTION JOINT



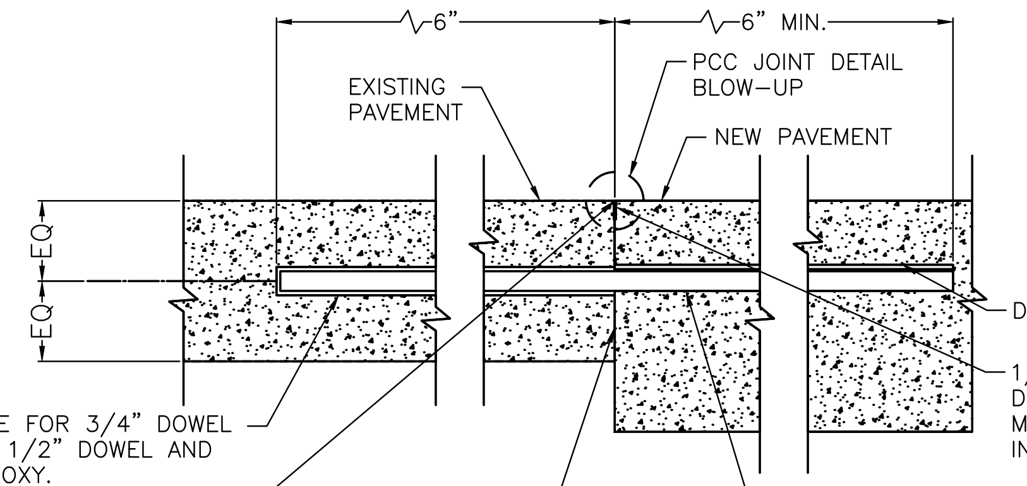
WAIT AS LONG AS FEASIBLE TO SEAL JOINTS TO ALLOW CONCRETE SHRINKAGE TO OCCUR. ENSURE JOINT IS CLEAN, DRY AND SIDES PREPARED PER MANUFACTURER'S RECOMMENDATIONS.

CLOSED CELL BACKER ROD. TYPICALLY 1/8" TO 1/4" LARGER THAN JOINT WIDTH.

NOTES:
1. ENSURE JOINTS ARE CLEAN AND DRY PRIOR TO THE APPLICATION OF THE JOINT SEALANT.
2. INSTALL CLOSED CELL BACKER ROD AFTER JOINTS HAVE BEEN CLEANED AND DRIED IN ACCORDANCE WITH SEALANT MANUFACTURER'S REQUIREMENTS.
3. INSTALL BACKER ROD AT CONSISTENT AND UNIFORM DEPTH.
4. JOINT SEALANT APPLICATION SHALL BE IN STRICT COMPLIANCE WITH SEALANT MANUFACTURER'S REQUIREMENTS.
5. DEPTH OF CUT SHALL BE 1/4 THE THICKNESS OF THE SLAB.

PCC JOINT DETAIL BLOW–UP (TYP.)

SAWCUT FULL DEPTH OF SLAB A DISTANCE BACK FROM EXISTING EDGE TO ENSURE A STRAIGHT EDGE ALONG ENTIRE LENGTH OF PAVEMENT. OBTAIN OWNER'S REPRESENTATIVE APPROVAL PRIOR TO SAWCUTTING.



DRILL 1–1/4" DIA. HOLE FOR 3/4" DOWEL AND 1" DIA. HOLE FOR 1/2" DOWEL AND INSTALL DOWEL WITH EPOXY.

ENSURE EPOXY IS FLUSH WITH FACE OF EXISTING SLAB.

APPLY CURING COMPOUND TO SLAB FACE AT A COVERAGE RATE OF 300 SF MAX PER GALLON TO ACT AS A BOND BREAKER.

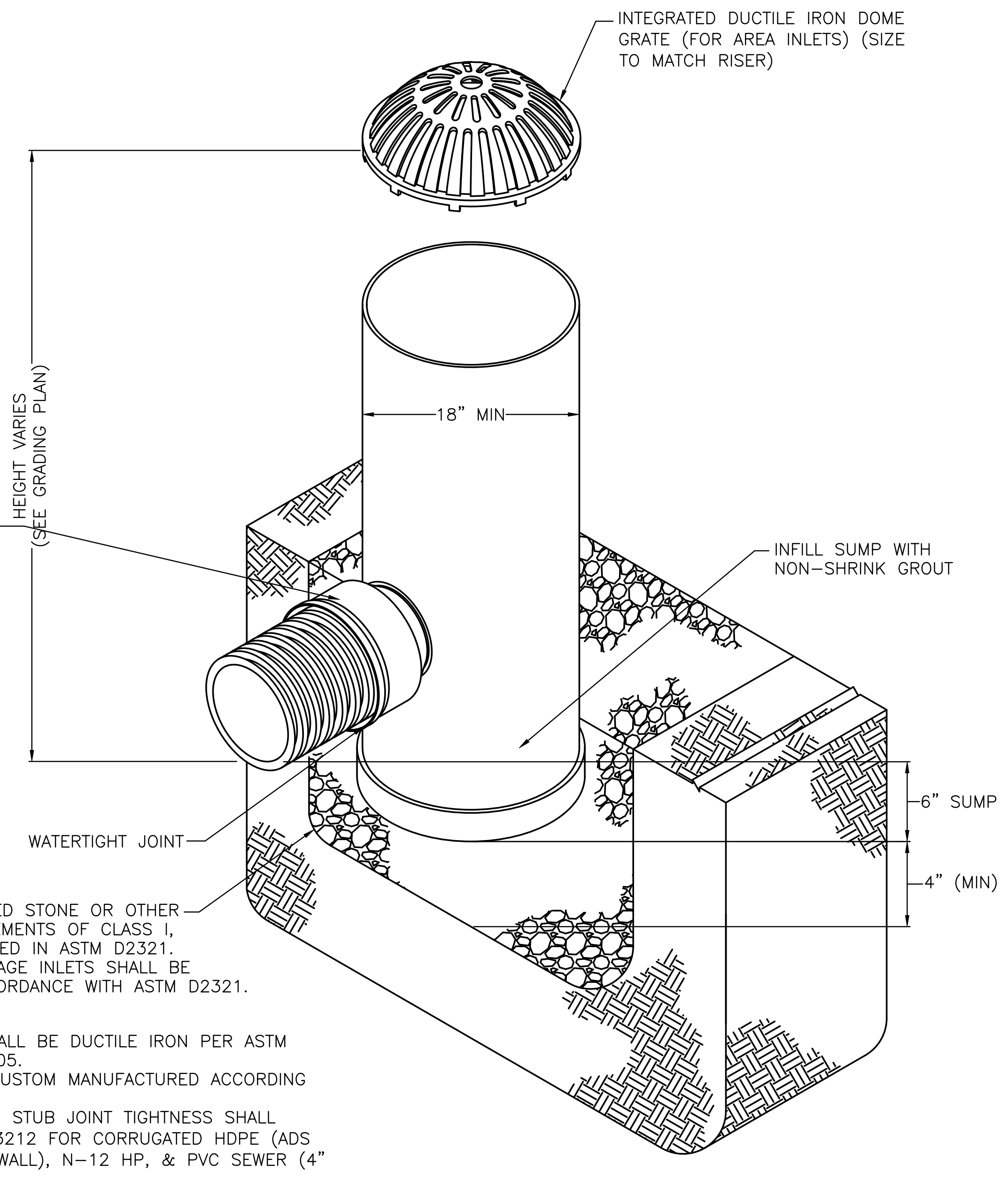
1/8" WIDE BY 1/4 OF PAVEMENT THICKNESS DEEP SAW CUT. FILL WITH PAVEMENT SEALANT. MAKE SAW CUT IMMEDIATELY PRIOR TO INSTALLING PAVEMENT SEALANT.

3/4" SQUARE DOWEL FOR 6" THICK AND GREATER PAVEMENTS. 1/2" SQUARE DOWEL FOR LESS THAN 6" THICK PAVEMENTS. SPACE DOWELS AT 18" O.C. DO NOT GREASE DOWEL.

CONSTRUCTION JOINT TO EXISTING PAVEMENT

1 CONCRETE JOINT

NO SCALE



INTEGRATED DUCTILE IRON DOME GRATE (FOR AREA INLETS) (SIZE TO MATCH RISER)

(4) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: 4" – 30" FOR CORRUGATED HDPE (ADS N–12/HANCOR DUAL WALL, ADS/HANCOR SINGLE WALL), N–12 HP, PVC SEWER (EX: SDR 35), PVC DWV (EX: SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC

THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

1. 18" DOME CRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70–50–05.
2. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS.
3. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N–12/HANCOR DUAL WALL), N–12 HP, & PVC SEWER (4" – 24").

NYLOPLAST 18" DRAIN BASIN (2818AG__X) WITH 18" DOME GRATE (1899CGD) OR SOLID GRATE LID

NTS

2 AREA INLET

NO SCALE

SITE NUMBER:	13006
BASE MODEL:	2018 PROTOTYPE
ASSET TYPE:	COMPANY
CLASSIFICATION:	NEW
OWNER:	COMPANY
BASE VERSION:	2018
UPGRADE CLASSIFICATION:	COMPANY NEW BUILD
PROJECT YEAR:	2018
FURNITURE PACKAGE:	XXX
DESIGN BULLETINS:	–

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ENGINEERS, INC.

7068 LEDGESTONE COMMONS
BARTLETT, TENNESSEE 38133
PH. (901) 384-0404 • FX. (901) 384-0710
AR CORPORATION #397

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Call before you dig.
3 business days
prior to excavation:

PROJECT TYPE: 2018 CIVIL PROTOTYPE

Wendy's

4204 E. JOHNSON AVE.
JONESBORO, AR 72401

REV.	DATE	DESCRIPTION

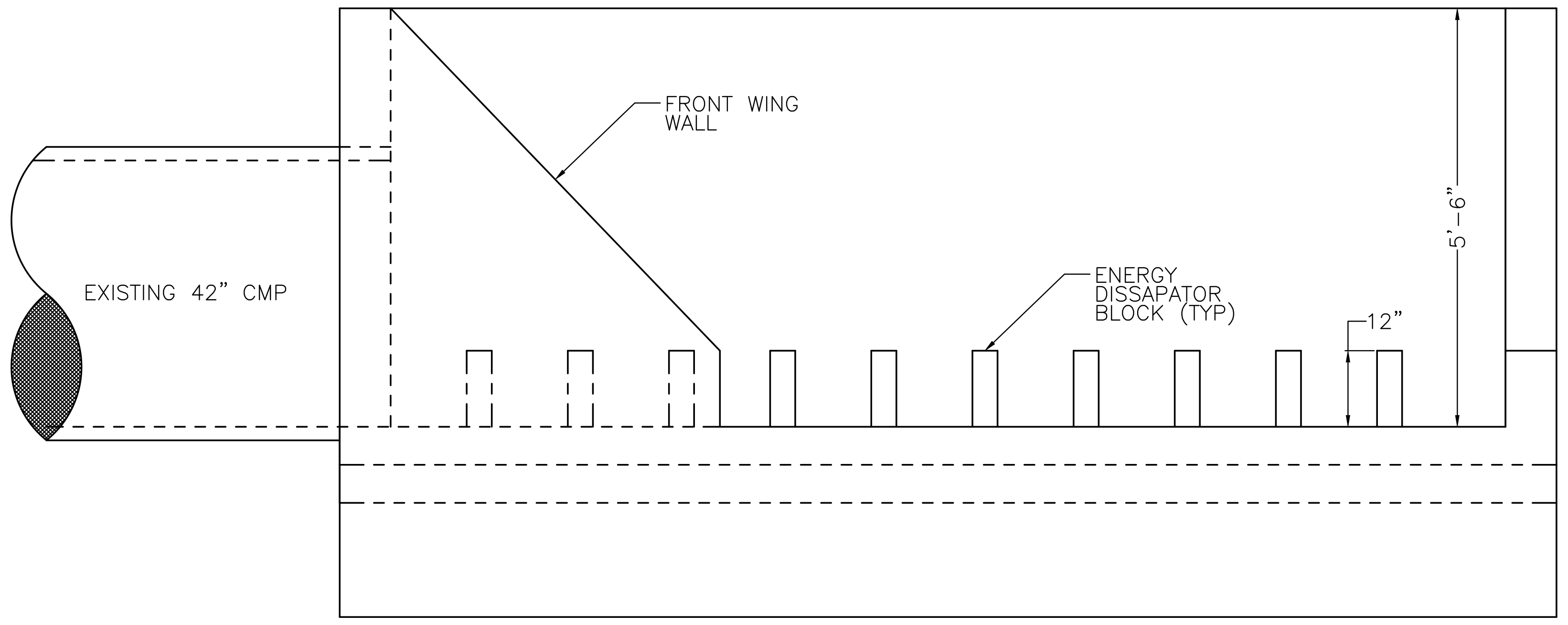
ISSUE DATE:	3/1/19
PROJECT NUMBER:	N/A
DRAWN BY:	TGH
CHECKED BY:	DLC

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 13316
JOSEPH PARSLEY
3/12/19

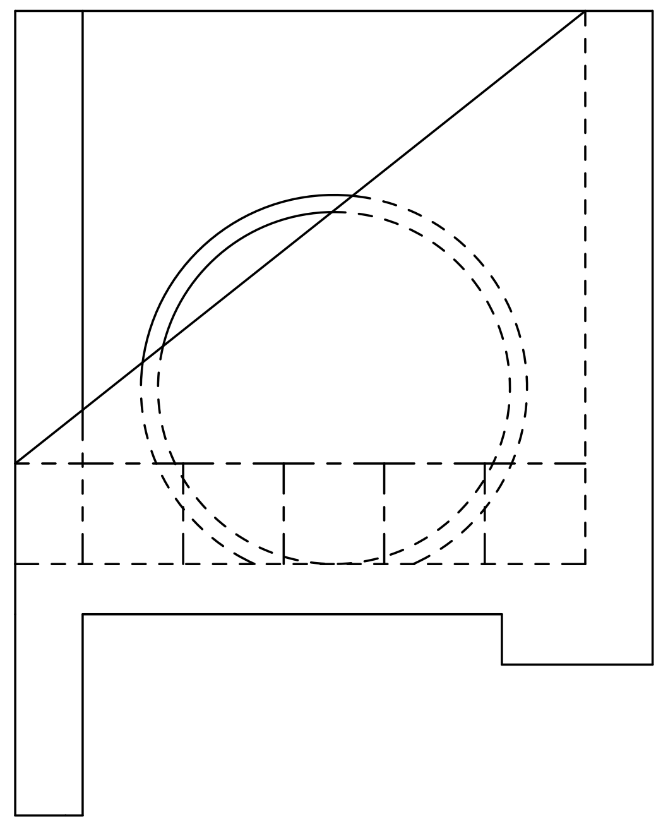
SHEET NAME
MISCELLANEOUS DETAILS

SHEET NUMBER

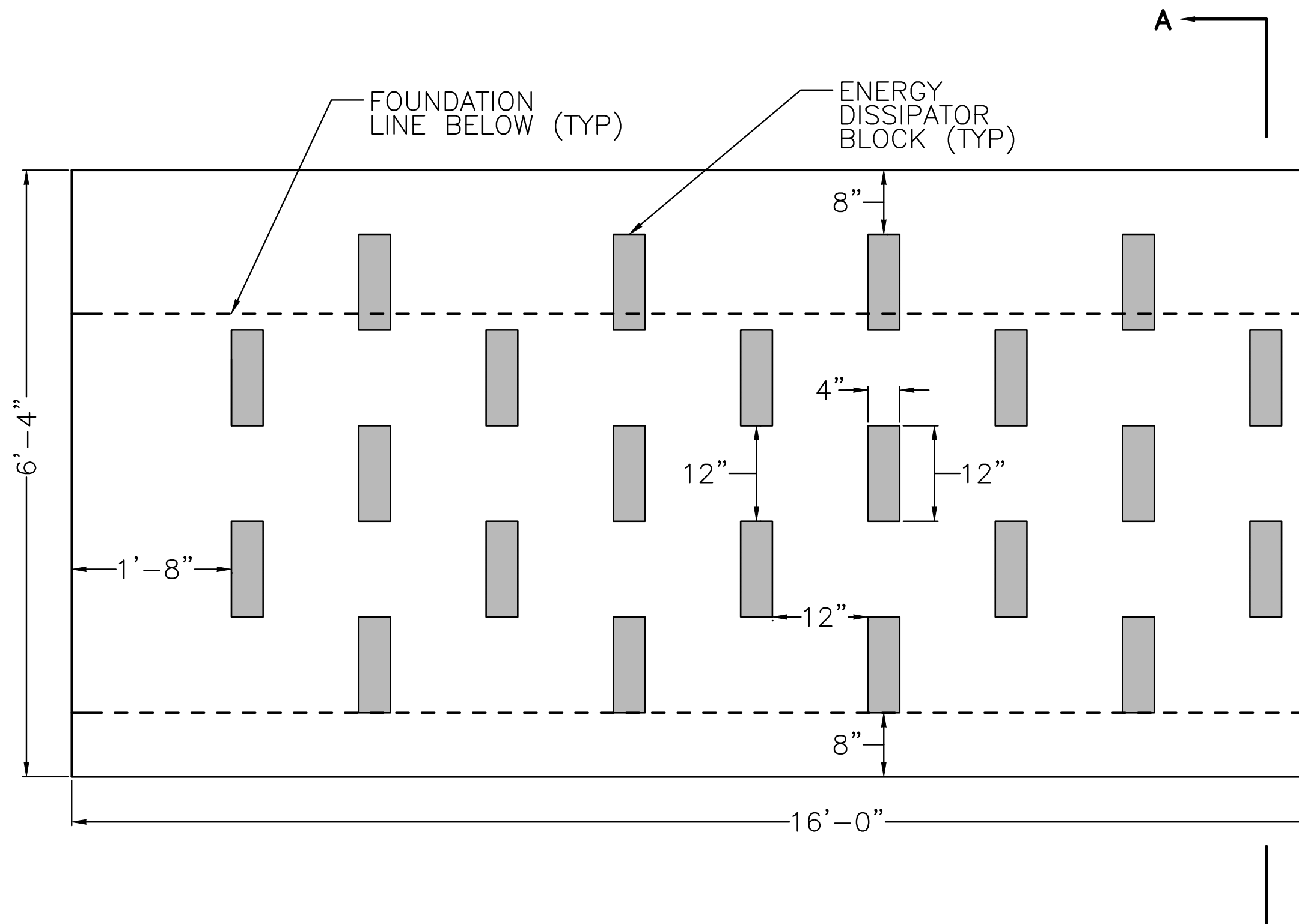
C5.4



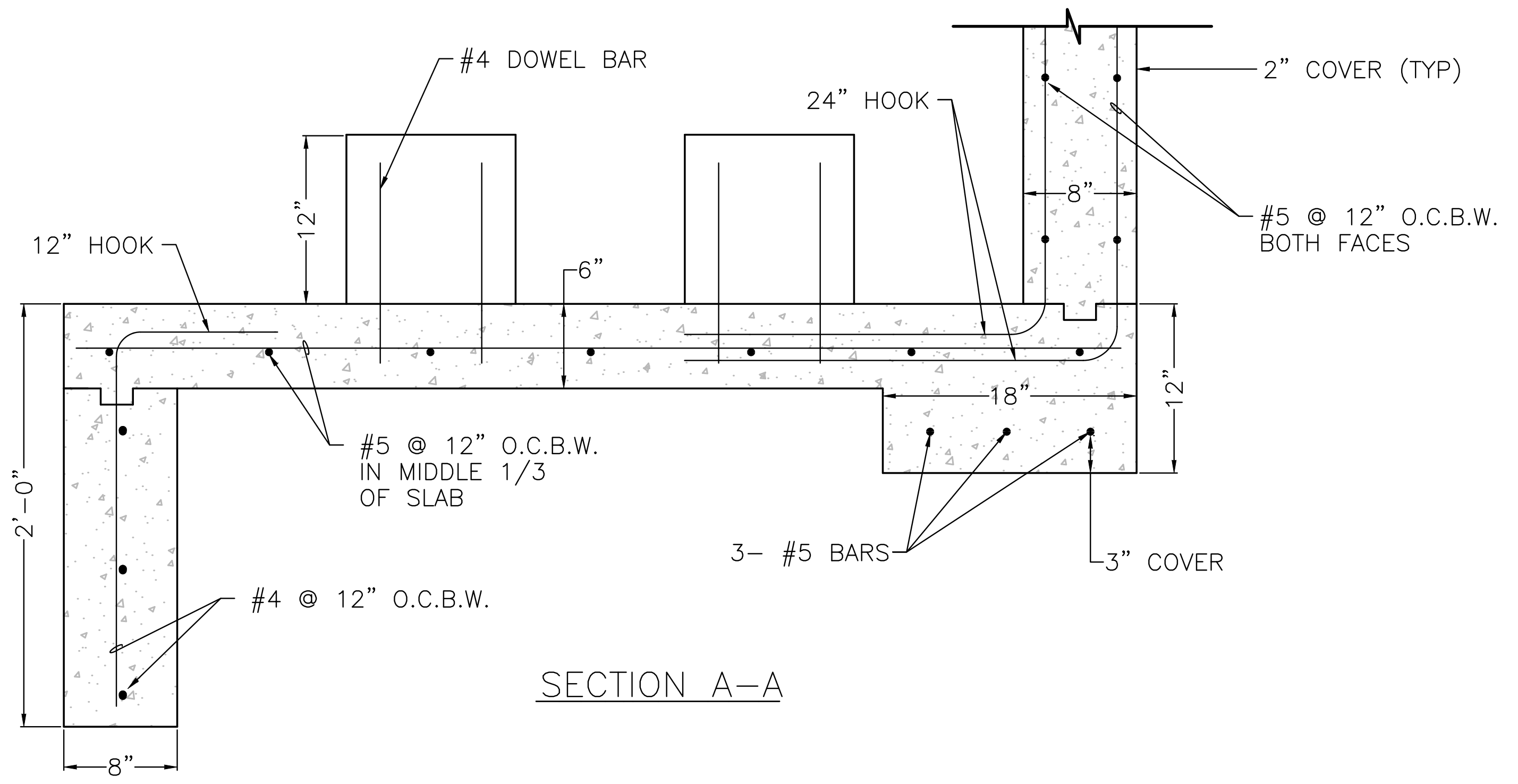
FRONT ELEVATION



SIDE VIEW



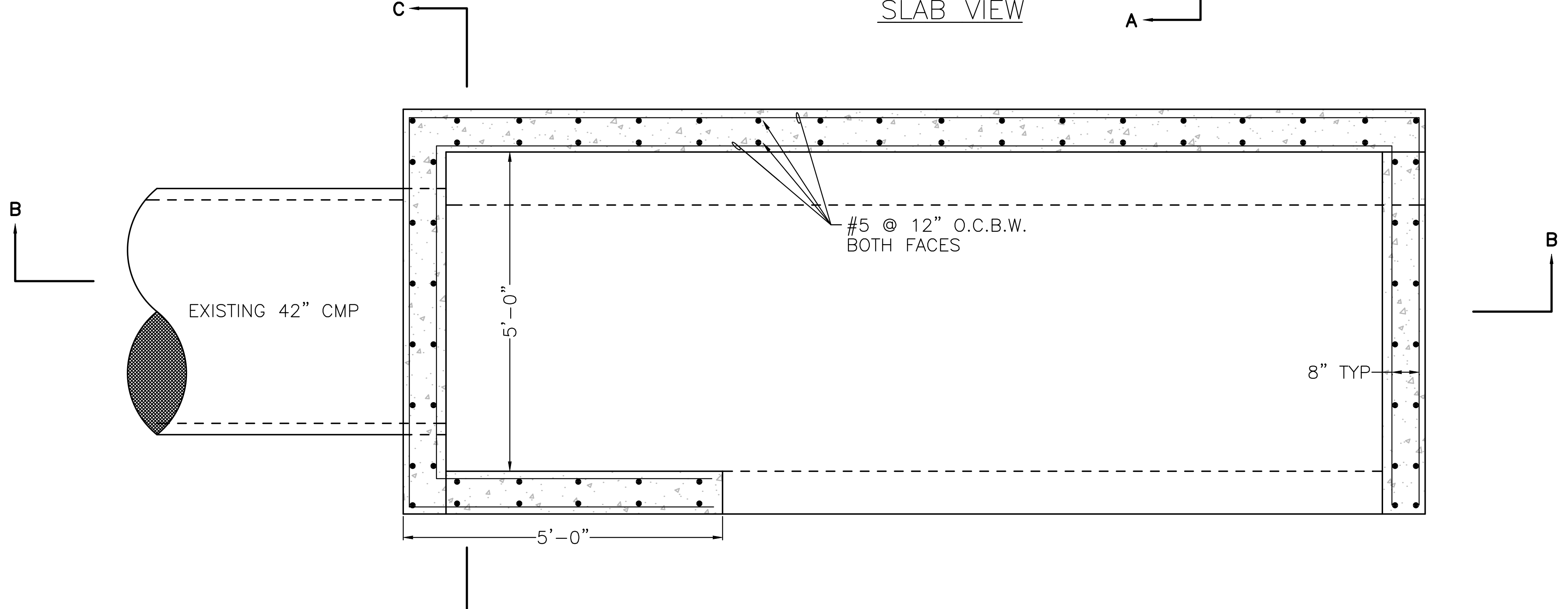
SLAB VIEW



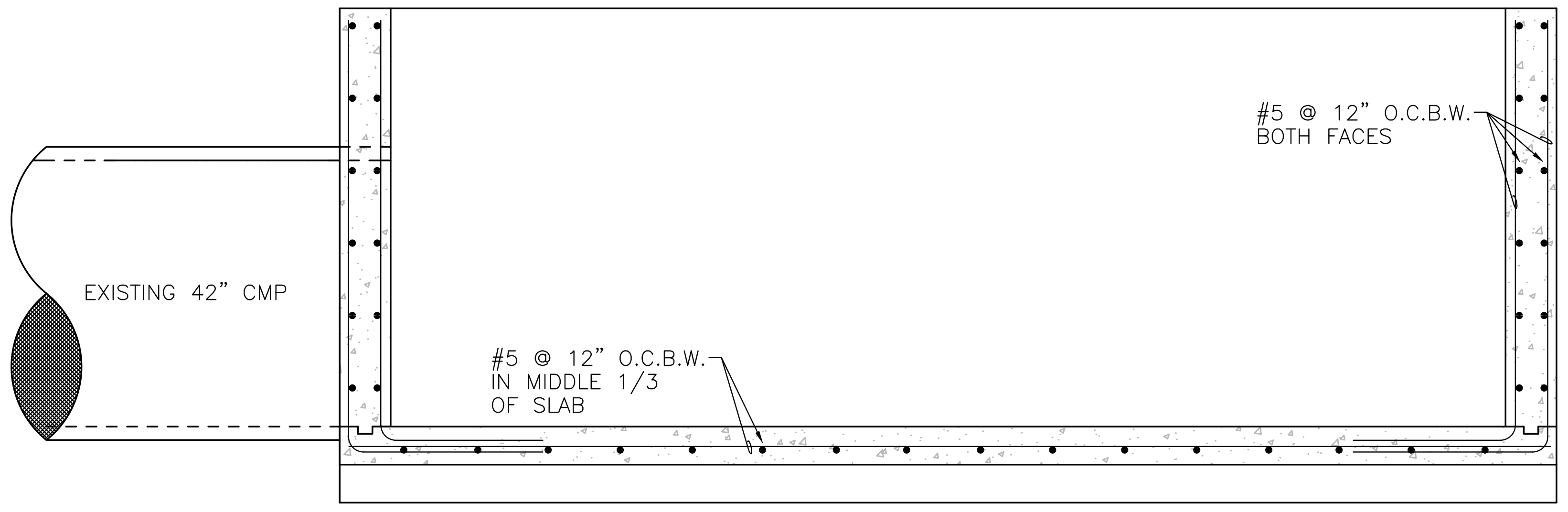
SECTION A-A

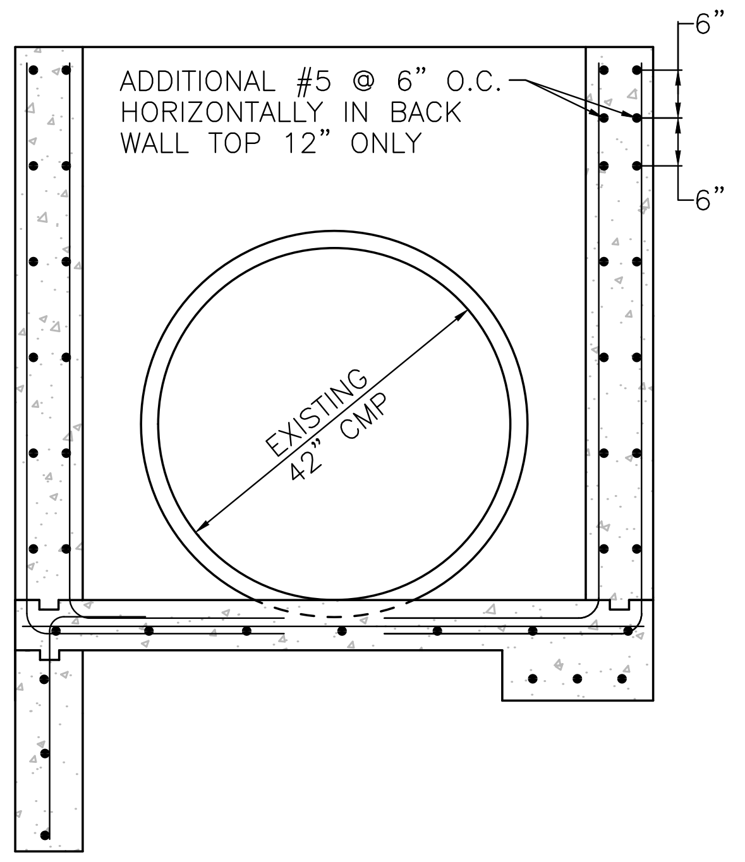
NOTES:

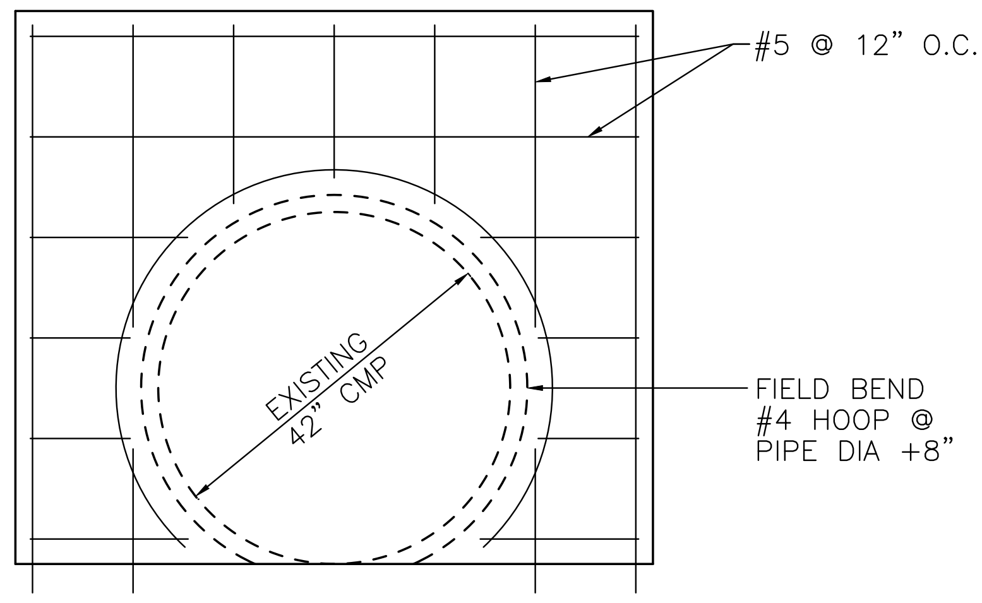
1. CONCRETE SHALL BE 4000 PSI MIX
2. STEEL SHALL BE GRADE 60 BARS
3. PROVIDE 2x4 KEYWAYS IF STRUCTURE IS NOT POURED INTEGRALLY



PLAN VIEW







SECTION B-B

SECTION C-C

PIPE ENTRANCE

SPECIAL HEADWALL

SITE NUMBER:	13006
BASE MODEL:	2018 PROTOTYPE
ASSET TYPE:	COMPANY
CLASSIFICATION:	NEW
OWNER:	COMPANY
BASE VERSION:	2018
UPGRADE CLASSIFICATION:	COMPANY NEW BUILD
PROJECT YEAR:	2018
FURNITURE PACKAGE:	XXX
DESIGN BULLETINS:	–

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4204 E. JOHNSON AVE.
JONESBORO, AR 72401

REV.	DATE	DESCRIPTION

ISSUE DATE:	3/1/19
PROJECT NUMBER:	N/A
DRAWN BY:	TGH
CHECKED BY:	DLC

No. 13316
JOSEPH PARSLEY
3/12/19

SHEET NAME
MISCELLANEOUS DETAILS

SHEET NUMBER

C5.5

DESIGNER NOTES

1. CONTACT A CURRENT WENDY'S SITE LIGHTING SUPPLIER TO PERFORM A SITE SPECIFIC SITE LIGHTING PHOTOMETRIC LAYOUT:
   LOEB ELECTRIC
   COLUMBUS, OH
   888-563-2669
   WENDYSPROJECTS@LOEBELECTRIC.COM
   ATTN: WENDY'S PROJECT TEAM

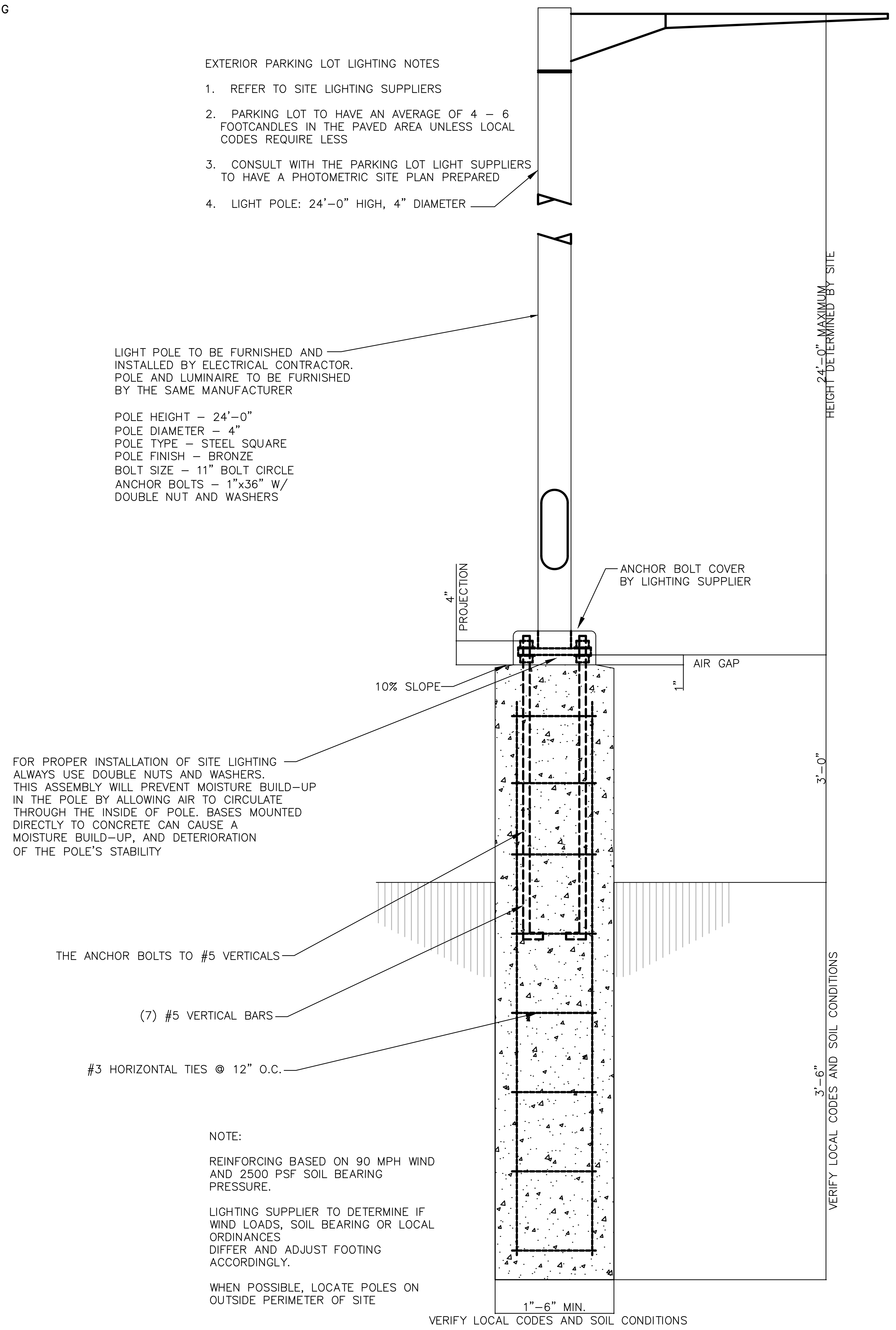
   HJC (REFER TO CONSOLIDATOR)
2. COORDINATE PLAN AND POLE LOCATIONS WITH SUPPLIER PROVIDING THE SITE LIGHTING PHOTOMETRIC LAYOUT.
3. WENDY'S SITE LIGHTING BASIS OF DESIGN – ALIGN WITH IES G-1-16 – GUIDE FOR SECURITY LIGHTING FOR PEOPLE, PROPERTY, AND CRITICAL INFRASTRUCTURE (RESTAURANTS AND EATING ESTABLISHMENTS):
   - WITHIN 30 FT OF SERVICE WINDOW(S):
     - 6.0 FC AVERAGE MAINTAINED
     - 3:1 AVERAGE-TO-MINIMUM UNIFORMITY
   - GENERAL PARKING AREAS, SIDEWALKS, FOOTPATHS, AND AREAS ADJACENT TO THE STRUCTURE:
     - 3.0 FC AVERAGE MAINTAINED
     - 4:1 AVERAGE-TO-MINIMUM UNIFORMITY
4. SITE LIGHTING PHOTOMETRIC LAYOUT SHALL COMPLY WITH LOCAL ZONING AND CODE REQUIREMENTS.
5. SITE LIGHTING POLE PLACEMENT SHALL NOT INTERFERE WITH SIGHT LINES TO THE BLADE/SIGNAGE/BUILDING. THE BUILDING SHALL REMAIN COMPLETELY VISIBLE.
6. REDUCE LIGHT TRESPASS AND GLARE TO SURROUNDING PROPERTIES AS MUCH AS POSSIBLE.
7. FULL CUTOFF LUMINAIRES ARE PREFERRED.
8. THE PROTOTYPE SITE LIGHTING PHOTOMETRIC PLAN INCLUDES BUILDING MOUNTED EXTERIOR LIGHT CONTRIBUTION. SITE LIGHTING PHOTOMETRIC PLAN SHALL INCLUDE THE BUILDING MOUNTED EXTERIOR LIGHTING CONTRIBUTIONS.

Schedule

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
□.□	SL1	5	EnergyLIte	19k lumen	GL2-17-4S-740	19,000 Lumen LED	1	GL2-17-4S-740.ies	16873	1	316

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Parking Surface	+	4.4 fc	11.3 fc	0.4 fc	28.3:1	11.0:1



EXTERIOR PARKING LOT LIGHTING NOTES

1. REFER TO SITE LIGHTING SUPPLIERS
2. PARKING LOT TO HAVE AN AVERAGE OF 4 – 6 FOOTCANDLES IN THE PAVED AREA UNLESS LOCAL CODES REQUIRE LESS
3. CONSULT WITH THE PARKING LOT LIGHT SUPPLIERS TO HAVE A PHOTOMETRIC SITE PLAN PREPARED
4. LIGHT POLE: 24'-0" HIGH, 4" DIAMETER

LIGHT POLE TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. POLE AND LUMINAIRE TO BE FURNISHED BY THE SAME MANUFACTURER

POLE HEIGHT – 24'-0"
POLE DIAMETER – 4"
POLE TYPE – STEEL SQUARE
POLE FINISH – BRONZE
BOLT SIZE – 11" BOLT CIRCLE
ANCHOR BOLTS – 1"x36" W/ DOUBLE NUT AND WASHERS

FOR PROPER INSTALLATION OF SITE LIGHTING ALWAYS USE DOUBLE NUTS AND WASHERS. THIS ASSEMBLY WILL PREVENT MOISTURE BUILD-UP IN THE POLE BY ALLOWING AIR TO CIRCULATE THROUGH THE INSIDE OF POLE. BASES MOUNTED DIRECTLY TO CONCRETE CAN CAUSE A MOISTURE BUILD-UP, AND DETERIORATION OF THE POLE'S STABILITY

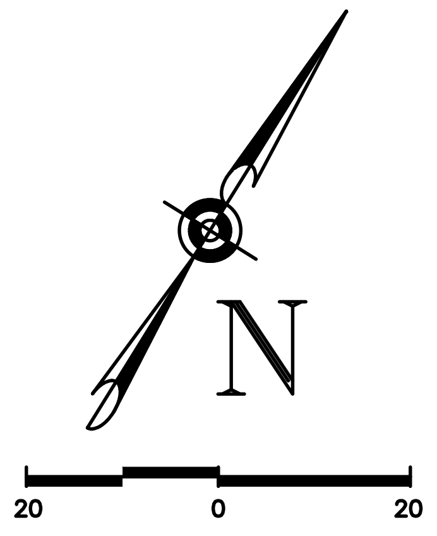
NOTE:

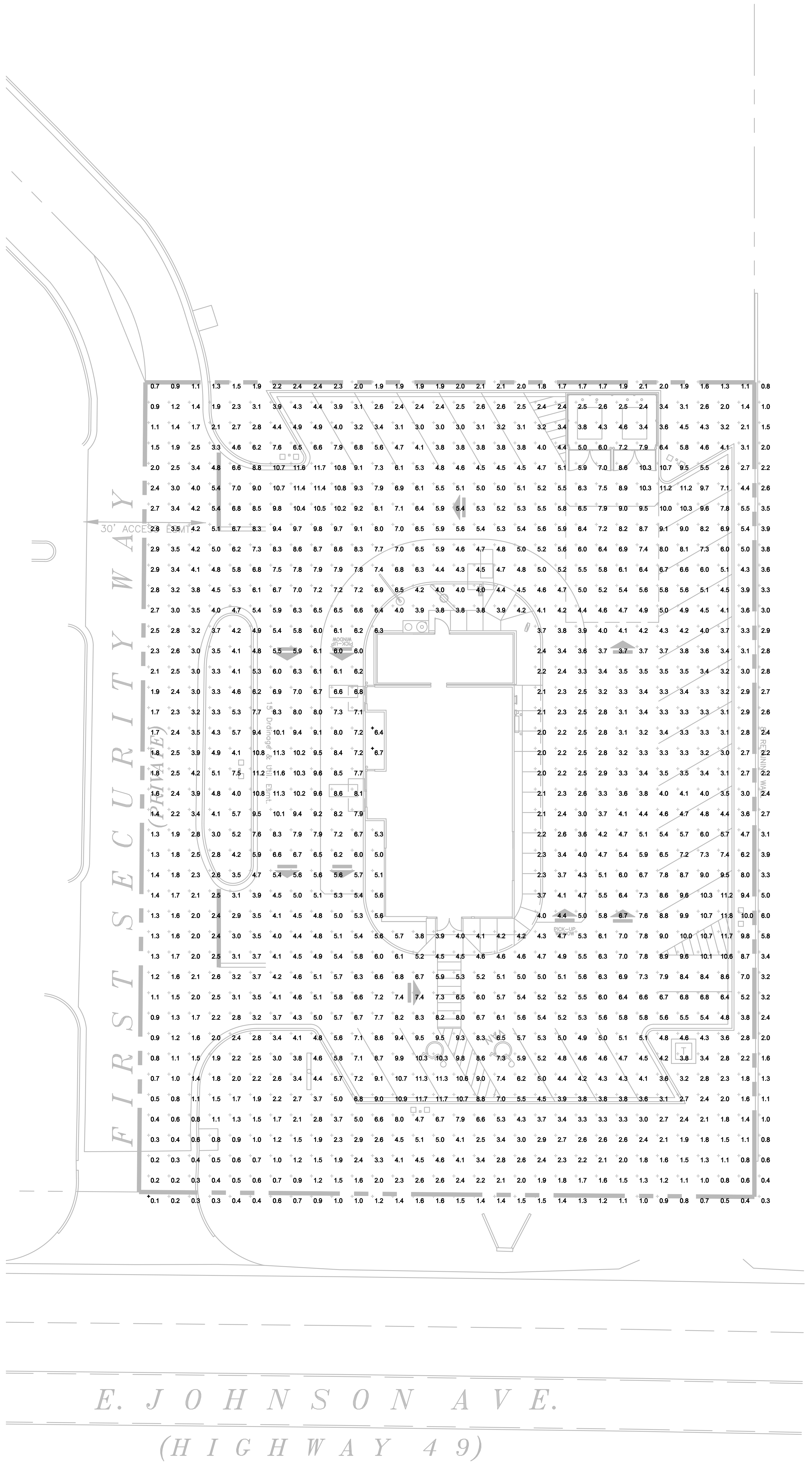
REINFORCING BASED ON 90 MPH WIND AND 2500 PSF SOIL BEARING PRESSURE.

LIGHTING SUPPLIER TO DETERMINE IF WIND LOADS, SOIL BEARING OR LOCAL ORDINANCES DIFFER AND ADJUST FOOTING ACCORDINGLY.

WHEN POSSIBLE, LOCATE POLES ON OUTSIDE PERIMETER OF SITE

EXTERIOR LIGHT POLE & STANDARD RAISED CONCRETE BASE DETAIL
NO SCALE





SITE LIGHTING PHOTOMETRIC PLAN
SCALE: 1" = 20'

S1 S2 S3 S4

SITE NUMBER: 13006
BASE MODEL: 2018 PROTOTYPE
ASSET TYPE: COMPANY
CLASSIFICATION: NEW
OWNER: COMPANY
BASE VERSION: 2018
UPGRADE CLASSIFICATION: COMPANY NEW BUILD
PROJECT YEAR: 2018
FURNITURE PACKAGE: XXX
DESIGN BULLETINS: –

CARLSON
CONSULTING
ENGINEERS, INC.
7068 LEDGESTONE COMMONS
BARTLETT, TENNESSEE 38133
PH. (901) 384-0404 • FX. (901) 384-0710
AR CORPORATION #397

811
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3 business days prior to excavation:

PROJECT TYPE: 2018 CIVIL PROTOTYPE

4204 E. JOHNSON AVE.
JONESBORO, AR 72401

REV.	DATE	DESCRIPTION

ISSUE DATE: 3/1/19
PROJECT NUMBER: N/A
DRAWN BY: TGH
CHECKED BY: DLC

No. 13316
JOSEPH PARSLEY
3/12/19

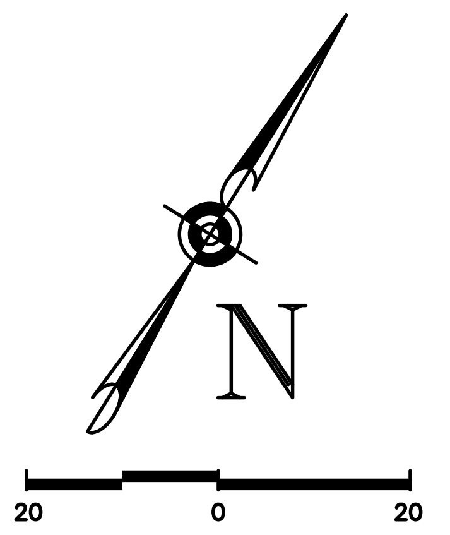
SHEET NAME
SITE LIGHTING PHOTOMETRIC PLAN

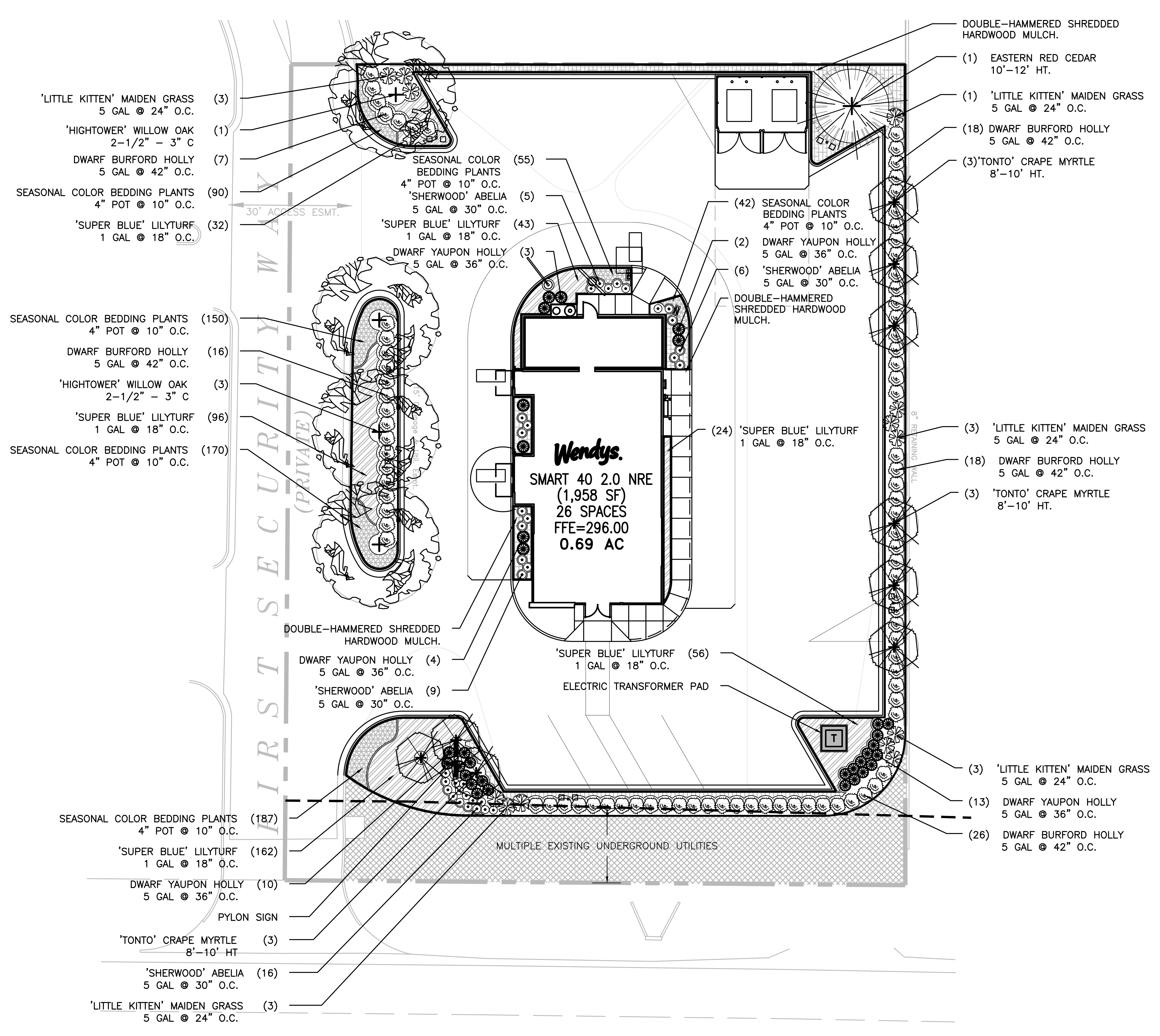
SHEET NUMBER
C6.0

ALL UNSURFACED AREAS SHALL RECEIVE A 4" LAYER OF SUITABLE TOPSOIL AND HYDRO-SEED AND/OR SOD (WHERE SHOWN). WATER UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.

ALL LANDSCAPE AREAS SHALL BE FULLY IRRIGATED. SEE IRRIGATION PLAN, THIS SET, FOR ADDITIONAL INFORMATION.

ALL LARGE CANOPY TREES SHALL MAINTAIN 25' HORIZONTAL CLEARANCE FROM ALL OVERHEAD UTILITY LINES AND 10' HORIZONTAL CLEARANCE FROM ALL UNDERGROUND UTILITY LINES.





PLANT SCHEDULE

NOTE: ALL SIZES AND CONDITION OF NURSERY STOCK SHALL MEET THE STANDARDS ESTABLISHED IN THE LATEST EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK" PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.

QTY	SYM	BOTANICAL NAME	COMMON NAME	SIZE (BOTH MIN'S TO BE MET)	SPACING	CONDITION	REMARKS
TREES:							
1	✺	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	10' - 12' HT	AS SHOWN	B&B/CONT	FULL HEAD w/UNIFORM GROWTH
9	⊗	LAGERSTROEMIA INDICA 'TONTO'	'TONTO' CRAPE MYRTLE	8' - 10' HT	AS SHOWN	B&B/CONT	MULTI-TRUNK, 3-5 TRUNKS
4	❁	QUERCUS PHELLOS 'QPSTA' PP13,677	'HIGHTOWER' WILLOW OAK	2-1/2" - 3"C / 12' - 14' HT	AS SHOWN	B&B	FULL HEAD w/UNIFORM GROWTH
SHRUBS:							
36	⊙	ABELIA X GRANDIFLORA 'SHERWOODII'	'SHERWOOD' ABELIA	5 GAL / 18" - 24" SPD	30" O.C.	CONT	ROUND, FULL HEAD
32	⊛	ILEX VOMITORA 'NANA'	DWARF YAUPON HOLLY	5 GAL / 18" - 24" SPD	36" O.C.	CONT	ROUND, FULL HEAD
85	◎	ILEX CORNUTA 'BURFORDII NANA'	DWARF BURFORD HOLLY	5 GAL / 18" - 24" HT	42" O.C.	CONT	ROUND, FULL HEAD
13	✿	MISCANTHUS SINENSIS 'LITTLE KITTEN'	'LITTLE KITTEN' MAIDEN GRASS	5 GAL / 18" - 20" HT	24" O.C.	CONT	ROUND, FULL HEAD
GROUNDCOVERS:							
524	▦	ANNUAL COLOR - (VINCA/ IMPATIENS) SELECTION TO BE BASED UPON SEASON	ANNUAL BEDDING PLANTS	4" POT CELL PACKS	10" O.C.	CELL PACK	COLOR TO BE LAYERED AT TIME OF INSTALLATION. WHITE IN FRONT, MIXED BLUE/RED COLOR BLEND BEHIND.
FILL AREA	▩	CYNODON DACTYLON 'TIFTON 419'	'TIFTON 419' BERMUDA SOD	SLAB / ROLL	SOLID	SOD	WEED FREE & ACTIVELY GROWING
FILL AREA	▤	SHREDDED HARDWOOD MULCH	DOUBLE HAMMERED	4" MINIMUM DEPTH AFTER SETTLING	FILL AREA	BULK	BROWN COLOR
413	▨	LIRIOPE MUSCARI 'SUPER BLUE'	'SUPER BLUE' LILYTURF	1 GAL	18" O.C.	CONT	MIN (3) BIBS, FULL POT, FREE OF ANTS

NOTE: SYMBOLS SHOWN IN TABLE ABOVE ARE FOR SPECIES IDENTIFICATION ONLY. PLANT SIZE SHOWN IN THE TABLE IS NOT INTENDED TO BE REPRESENTATIVE OF THE PLANT AT EITHER INSTALLATION OR MATURITY. SIZE OF SYMBOL SHOWN IN TABLE ABOVE MAY VARY FROM THOSE SHOWN ON PLANS.

NOTE: NO SUBSTITUTIONS OF PLANT MATERIALS ARE ALLOWED WITHOUT THE PRIOR APPROVAL OF THE LANDSCAPE ARCHITECT.

3. GENERAL LANDSCAPING REQUIREMENTS:

ALL NEW DEVELOPMENT AND REDEVELOPMENT MUST PROVIDE A LANDSCAPE PLAN MEETING THE REQUIREMENTS BELOW.

4. A PERCENTAGE OF THE TOTAL LAND AREA CURRENTLY UNDER DEVELOPMENT WILL BE DEVOTED TO LANDSCAPING:

a. N/A

b. IF THE DEVELOPMENT IS LESS THAN TWO ACRES, AT LEAST ONE NEW TREE OR SHRUB MEETING THE PLANT CRITERIA HEREIN MUST BE PROVIDED FOR EACH 1,000 SQUARE FEET OF THE TOTAL LAND AREA FOR DEVELOPMENTS UP TO TWO ACRES.

c. PUBLIC RIGHTS OF WAY, PRIVATE UTILITY EASEMENTS, AND PROTECTED UTILITY AREAS (AS DEFINED BELOW) WITHIN PLATTED UTILITY EASEMENTS SHALL NOT BE INCLUDED IN THE COMPUTATION OF MINIMUM GREEN SPACE UNDER THIS SECTION 3.

5. CRITERIA FOR PLANT MATERIALS:

c. A MINIMUM OF 25% OF THE PLANT MATERIALS REQUIRED UNDER THIS CODE SHALL CONSIST OF TREES OF WHICH 40% SHALL BE NATIVE SPECIES.

d. PARKING LOTS CONTAINING TEN (10) OR MORE SPACES SHALL BE LANDSCAPED WITH ONE OF THE FOLLOWING OPTIONS:

OPTION 1. NARROW TREE LAWN. A CONTINUOUS LANDSCAPE STRIP BETWEEN ROWS OF PARKING. THE MINIMUM WIDTH OF A TREE LAWN SHALL BE TEN FEET (10'); THE MINIMUM AREA SHALL BE 300 SQUARE FEET. ONE TREE EVERY 15 PARKING SPACES OR ONE TREE EVERY THIRTY LINEAR FEET, WHICHEVER PROVIDES MORE CANOPY, SHALL BE PLANTED WITH THIS OPTION. TREES MAY BE GROUPED OR SPACED WITHIN THE LAWN AREA.

OPTION 2. TREE ISLAND. IF THE PARKING AREA IS SINGLE BAY PARKING AREA, THE TREE ISLAND SHALL BE A MINIMUM WIDTH OF EIGHTEEN FEET (18') AND A MINIMUM LENGTH OF EIGHTEEN FEET (18'), OR AN AREA OF NOT LESS THAN THREE HUNDRED TWENTY-FOUR SQUARE FEET (324 S.F.), IF THE PARKING AREA IS A DOUBLE BAY PARKING AREA, THE TREE ISLAND SHALL BE A MINIMUM WIDTH OF EIGHTEEN FEET (18') AND A MINIMUM LENGTH OF THIRTY SIX FEET (36') OR AN AREA OF NOT LESS THAN SIX HUNDRED FORTY-EIGHT SQUARE FEET (648 S.F.) ONE TREE SHALL BE PLANTED FOR EVERY 15 PARKING SPACES WITH THIS OPTION, WITH A MAXIMUM RUN OF 15 PARKING SPACES PERMITTED WITHOUT A TREE ISLAND. INTERIOR TREES SHALL BE PLACED ON EITHER SIDE OF POINTS OF ACCESS (ENTRANCE DRIVES, EXIT DRIVES) WITHIN TREE ISLANDS. IN ADDITION, ALL STREET TREES MUST BE SPACED AT A MINIMUM OF FORTY FEET (40'). ALL TREE PLANTED TO MEET THESE REQUIREMENTS SHALL BE DECIDUOUS SHADE TREES.

c. NEW PLANTS MAY BE SELECTED FROM THE RECOMMENDED PLANTS LIST PROVIDED BY THE PLANNING AND ZONING DEPARTMENT. PLANTS SHOULD BE SELECTED FOR HARDINESS IN LOCAL ZONES. PLANTS SHOULD BE ARRANGED TO FACILITATE GROWTH AND AVOID DAMAGE BY DEVELOPMENT. THE FOLLOWING TREES SHALL NOT BE USED IN A LANDSCAPE PLAN:

1. BLACK LOCUST (ROBINIA PSEQDOACACIA)
2. COTTONWOOD (POPULOUS TRICHOCARPS)
3. BRADFORD PEAR (PYRUS CALLERYANA "BRADFORD")
4. SOUTHERN LIVE OAK (QUERCUS VIRGINIANA)
5. MIMOSA (ALBIZIA JULIBIRSSIN)
6. PRIVET (LIGSTRUM SINESE)

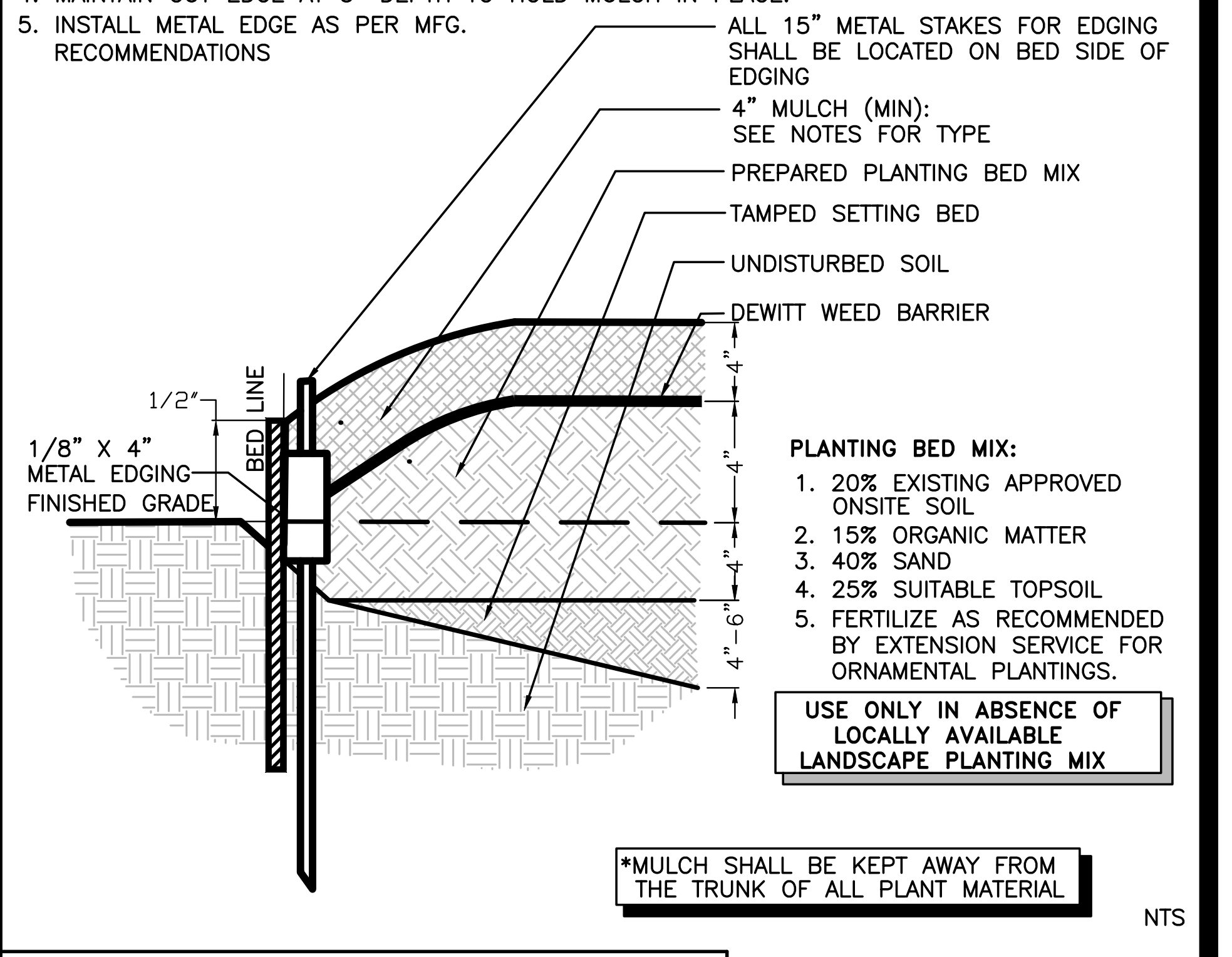
D. DECIDUOUS ORNAMENTAL TREES MUST BE BALLED AND BURLAPPED, HAVE AT LEAST TWO AND ONE-HALF INCH CALIPER, AND BE AT LEAST EIGHT (8) FEET TALL. DECIDUOUS SHADE TREES MUST BE BALLED AND BURLAPPED, HAVE AT LEAST TWO AND ONE-HALF INCH CALIPER BY AT LEAST EIGHT (8) FEET TALL. EVERGREEN TREES MUST BE BALLED AND BURLAPPED AND BE AT LEAST TEN (10) FEET IN HEIGHT ABOVE NATURAL GRADE. NO MORE THAN 25% OF THE TOTAL NUMBER OF TREES MAY BE ORNAMENTAL TREES, AND AT LEAST 10% OF THE TREES SHALL BE EVERGREEN. SHRUBS ARE TO BE FIVE-GALLON SIZE, MINIMUM.

E. PERENNIALS FROM THE RECOMMENDED PLANTS LIST QUALIFY AS A PLANT SELECTION TO MEET MINIMUM REQUIREMENTS IN THE RATIO OF 20:1. TWENTY PERENNIALS, SIX INCH POT SIZE, EQUAL ONE SHRUB. PERENNIALS QUALIFY AS SHRUB SELECTIONS TO A MAXIMUM OF 15% OF THE REQUIRED NUMBER OF SHRUBS.

LANDSCAPE REQUIREMENT SUMMARY:

AREA: SITE TOTAL 29,986.4 SF 100.0%	AREA: SITE LESS UTILITY/ACCESS 24,540.3 SF 100.0%
REQUIRED: (UNDER 2-ACRES)	**PROPOSED:**
1 PLANT/1,000 S.F. = 24.5 OR 25 PLANTS	186
25% (MIN) OF REQ'D 25 PLANTS ARE TO BE TREES: 6.25 OR 7 TREES	14
40% (MIN) OF REQ'D 7 TREES ARE TO BE NATIVE: 2.8 OR 3 NATIVE TREES	5
25% (MAX) OF REQ'D 7 TREES MAY BE ORNAMENTAL: 1.75 OR 2 ORNAMENTAL TREES	3
10% (MIN) OF REQ'D 7 TREES ARE TO BE EVERGREEN: 0.7 OR 1 EVERGREEN TREE	1
BALANCE OF REQ'D 25 PLANTS ARE TO BE SHRUBS (5-GAL MIN SIZE): 18 5-GAL SHRUBS REQ'D	172
PARKING INTERIOR: (1) 2.5"C TREE/ 15 PKG SP.	
PROPOSED: 26PS @ 1TREE/15PS = 1.7 OR 2 PARKING ISLAND TREES REQ'D	6 ORNAMENTAL TREES PROVIDED

PLANTING BED PREPARATION:
1. LAYOUT BED LINE USING SMOOTH FLOWING CURVES.
2. CUT INTO EXISTING SOIL AT APPROXIMATELY A 60° ANGLE, TURNING SOIL BACK INTO BED AREA.
3. ADD AMENDMENTS AND TILL BED UNTIL BLENDED.
4. MAINTAIN CUT EDGE AT 3" DEPTH TO HOLD MULCH IN PLACE.
5. INSTALL METAL EDGE AS PER MFG. RECOMMENDATIONS



PLANTING BED MIX:
1. 20% EXISTING APPROVED ONSITE SOIL
2. 15% ORGANIC MATTER
3. 40% SAND
4. 25% SUITABLE TOPSOIL
5. FERTILIZE AS RECOMMENDED BY EXTENSION SERVICE FOR ORNAMENTAL PLANTINGS.

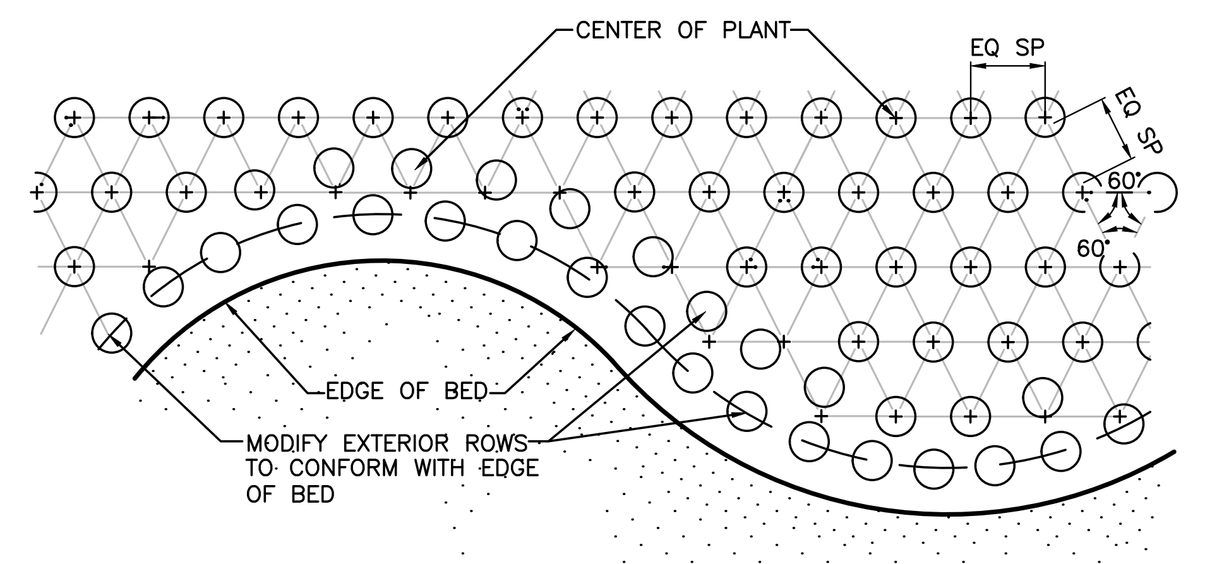
USE ONLY IN ABSENCE OF LOCALLY AVAILABLE LANDSCAPE PLANTING MIX

*MULCH SHALL BE KEPT AWAY FROM THE TRUNK OF ALL PLANT MATERIAL

NTS

PLANTING BED PREP w/ EDGING

SPACING VARIES WITH PLANT SPECIES. SEE PLAN FOR SPACING.

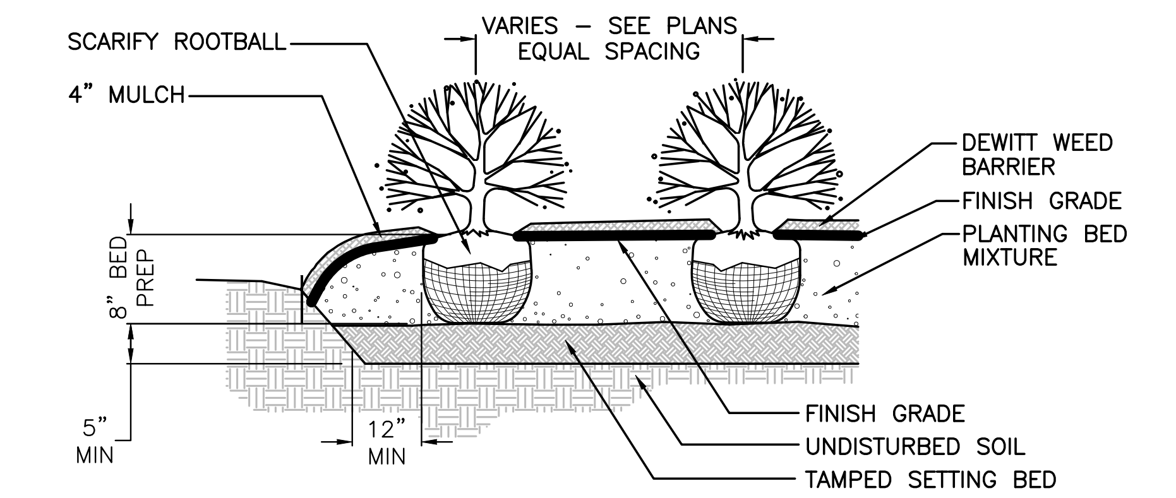


*MULCH SHALL BE KEPT AWAY FROM THE TRUNK OF ALL PLANT MATERIAL

NTS

PLANT SPACING

TYPICAL BED LAYOUT:
1. LAYOUT PERIMETER PLANTING SPACED AS PER PLAN.
2. FILL IN PLANTING BED WITH TRIANGULAR SPACING.
3. ADJUST AS PER LANDSCAPE ARCHITECT'S INSTRUCTIONS.



NTS

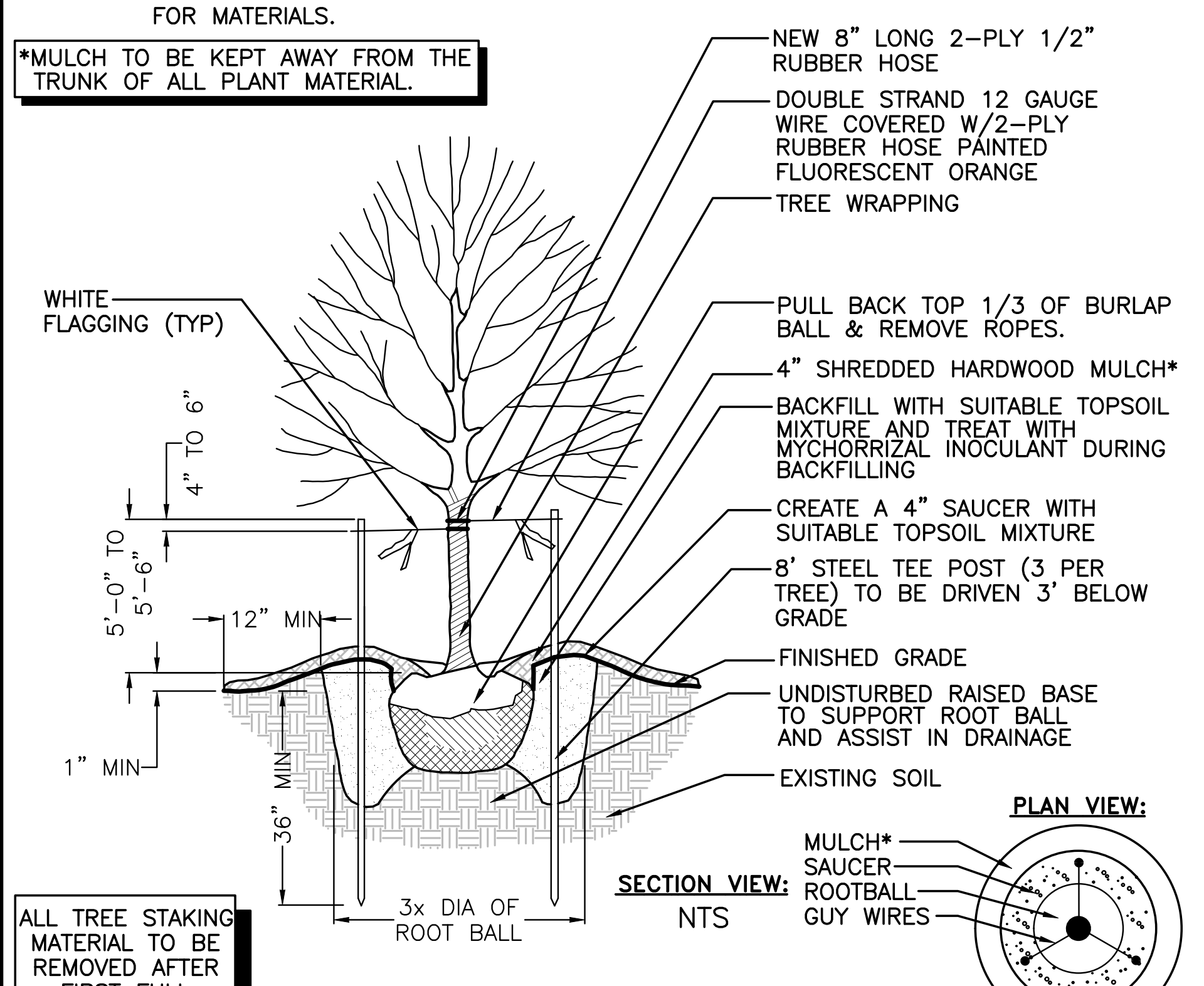
* NOTE:
MULCH SHALL BE A 4" LAYER OF SHREDDED HARDWOOD MULCH AFTER SETTLING - UNLESS OTHERWISE NOTED

*MULCH SHALL BE KEPT AWAY FROM THE TRUNK OF ALL PLANT MATERIAL.

SHRUB PLANTINGS

NOTE: SEE PLANS & SPECS FOR MATERIALS.

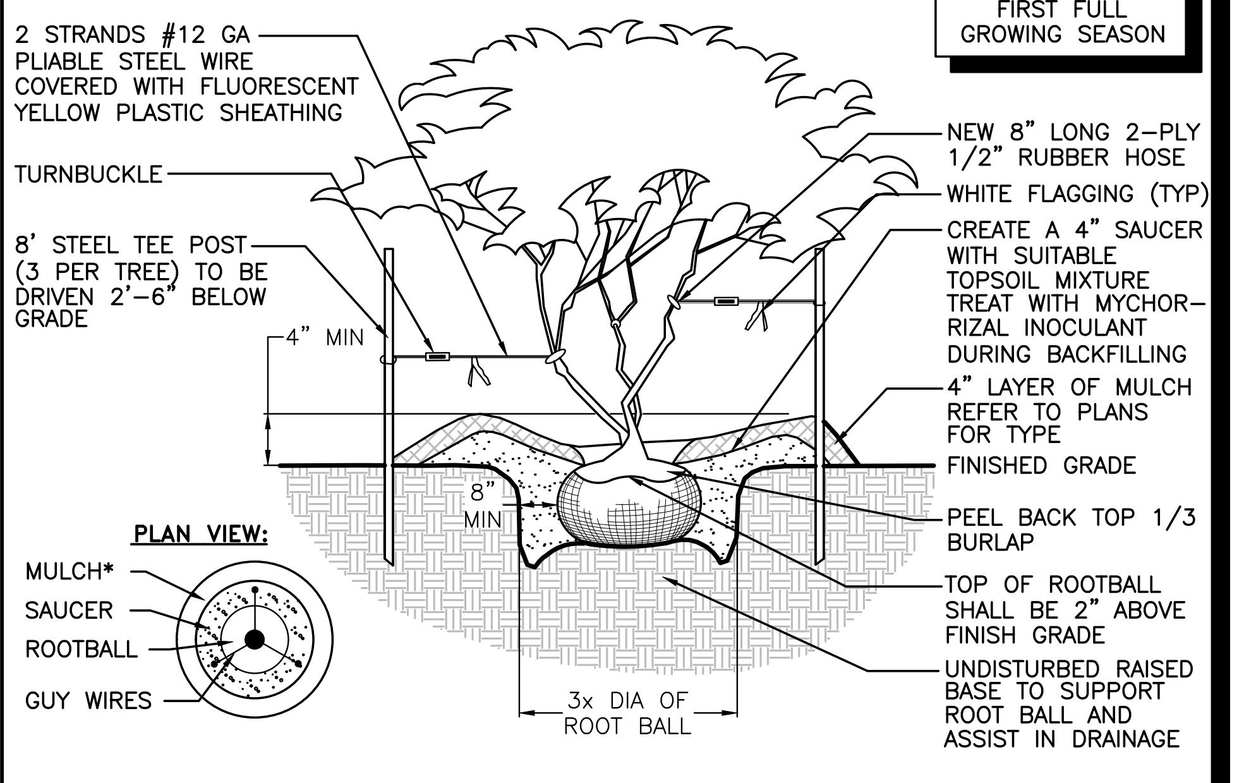
*MULCH TO BE KEPT AWAY FROM THE TRUNK OF ALL PLANT MATERIAL.



ALL TREE STAKING MATERIAL TO BE REMOVED AFTER FIRST FULL GROWING SEASON

TREE PLANTING

ALL TREE STAKING MATERIAL SHALL BE REMOVED AFTER FIRST FULL GROWING SEASON



NOTE:
1. WITH MULTI-TRUNK PLANTS ATTACH GUYS TO VARIOUS LIMBS.
2. SELECT PRUNE 1/3 BRANCHING HABIT CONFORM TO HORT. PRACTICES AS EST BY AMERICAN ASSOC OF NURSERYMEN-AMERICAN STD FOR NURSERY STOCK, LATEST EDITION. (TYP FOR ALL TREE AND SHRUB PLANT MAT'L). RECEIVE LANDSCAPE ARCH'S APPROVAL.
3. TREES OF SAME SPECIES SHALL BE MATCHED IN GROWTH AND UNIFORMITY.

* ALL MULCH SHALL BE KEPT FROM THE TRUNK OF ALL PLANT MATERIAL.

MULTI-TRUNKED TREE PLANTING

SITE NUMBER:	13006
BASE MODEL:	2018 PROTOTYPE
ASSET TYPE:	COMPANY
CLASSIFICATION:	NEW
OWNER:	COMPANY
BASE VERSION:	2018
UPGRADE CLASSIFICATION:	COMPANY NEW BUILD
PROJECT YEAR:	2018
FURNITURE PACKAGE:	XXX
DESIGN BULLETINS:	–

CARLSON CONSULTING ENGINEERS, INC.
7068 LEDGESTONE COMMONS
BARTLETT, TENNESSEE 38133
PH. (901) 384-0404 • FX. (901) 384-0710
AR CORPORATION #397

811
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3 business days prior to excavation:

PROJECT TYPE:	2018 CIVIL PROTOTYPE

Wendy's
4204 E. JOHNSON AVE.
JONESBORO, AR 72401

REV.	DATE	DESCRIPTION

ISSUE DATE:	3/1/19
PROJECT NUMBER:	N/A
DRAWN BY:	TGH
CHECKED BY:	DLC

CHARLES R. WALKER
License Number 507
3/12/19

SHEET NAME
PLANTING LAYOUT PLAN

SHEET NUMBER
L1.0

TEMPORARY SEEDING
- SEED: MIXTURE 70% RYEGRASS/30% WINTER WHEAT 4 LBS / 1,000 SQ FT.
- AREAS TO RECEIVE SEED SHALL BE FERTILIZED WITH A COMPLETE FERTILIZER PER EXTENSION SERVICE'S RECOMMENDATIONS.

SOD:
- ALL SODDED AREAS SHALL BE 'TIFTON 419' HYBRID BERMUDA.
- ALL CURBED ISLANDS SHALL BE SODDED UNLESS NOTED OTHERWISE.
- SLOPES GREATER THAN 3:1 SHALL BE PEGGED TO HOLD SOD IN PLACE.
- ALL AREAS TO BE SODDED SHALL RECEIVE A MINIMUM 4" LAYER OF SUITABLE TOPSOIL THAT MEETS THE CONDITIONS LISTED ABOVE AND THAT HAS BEEN TILLED, FINE GRADED, AND HAS HAD ALL STONES, ROOTS, DEBRIS, ETC REMOVED.
- SOD SHALL BE LAID AS SOON AS IT IS DELIVERED TO PLANTING AREAS. ONLY HEALTHY MOIST GREEN SOD SHALL BE LAID. ANY SOD WHICH IS BROWN AND UNDER STRESS IS UNACCEPTABLE. ANY SOD WHICH IS NOT LAID WITHIN 24 HOURS OF DELIVERY SHALL BE UNACCEPTABLE.
- SOD SHALL BE A MINIMUM OF 3/4" THICK, FREE OF WEEDS AND PESTS, AND CUT NO MORE THAN 24 HOURS PRIOR TO PLANTING.
- SOD PANELS SHALL BE LAID TIGHTLY TOGETHER AND END JOINTS STAGGERED SO AS TO MAKE A SOLID SODDED AREA.
- ANY JOINTS OR SEAMS THAT MAY EXIST AFTER LAYING SOD SHALL BE FILLED WITH SAND SO AS TO CREATE A SMOOTH AND UNIFORM GROWING SURFACE.
- SOD SHALL BE ROLLED AND WATERED AT THE TIME OF INSTALLATION TO ENSURE GOOD SOD-SOIL CONTACT AND TO PROVIDE A SMOOTH, UNIFORM WALKING SURFACE.

SOD IS TO BE PEGGED ON ALL SLOPES IN ORDER TO HOLD SOD IN PLACE. SEE LAWN AND GRASSES SPECIFICATIONS FOR OTHER REQUIREMENTS.

ALL UNSURFACED AREAS SHALL RECEIVE 6" TOPSOIL AND SOD (WHERE SHOWN). WATER UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.

SEEDING & SODDING NOTES

PLANTING NOTES

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION TO OWNER'S SATISFACTION, AT NO ADDITIONAL COST. NO PLANTING SHALL BE INSTALLED IN CONFLICT WITH UTILITIES.
2. LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON THE BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF UTILITY LINES ON THE PROJECT SITE AND ADJACENT TO THE WORK AREA. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD.
3. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING SITE CONDITIONS PRIOR TO PROCEEDING. IF UNFORESEEN CIRCUMSTANCES ARE ENCOUNTERED, THE CONTRACTOR IS TO STOP WORK AND CONTACT THE LANDSCAPE ARCHITECT IMMEDIATELY.
4. SAFE, CLEARLY MARKED PEDESTRIAN AND VEHICULAR ACCESS TO ALL ADJACENT PROPERTIES MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS.
5. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
6. ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASE.
7. ALL PLANTS MUST BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED IN THE PLANT LIST.
8. ALL TREES MUST BE STRAIGHT TRUNKED AND FULL HEADED AND MEET ALL REQUIREMENTS SPECIFIED.
9. AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES IN LEAF SHALL BE ACCLIMATED FOR TWO (2) WEEKS UNDER A MIST SYSTEM PRIOR TO INSTALLATION.
10. ALL LANDSCAPED AREAS SHALL BE SPRAYED WITH HERBICIDE 4 WEEKS PRIOR TO INSTALLATION OF LANDSCAPING. THE EXISTING MATERIAL SHALL BE REMOVED BEFORE ANY INSTALLATION OF PLANT MATERIAL OR SEED.
11. ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING, AND AFTER INSTALLATION.
12. ALL NEW TREES SHALL HAVE 'MYCOR TREE SAVER' OR EQUAL MYCORIZAL FUNGAL TREATMENT INSTALLED AT RATE RECOMMENDED BY MANUFACTURER AT THE TIME OF INSTALLATION.
13. ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DETAILS.
14. ALL SHRUB BED AREAS SHALL RECEIVE A MIN OF 8" OF PLANTING BED MIX AS DESCRIBED IN PLANTING BED PREP DETAIL (THIS PAGE).
15. GRADE PLANTING BEDS TO A SMOOTH, UNIFORM SURFACE PLANE WITH LOOSE, UNIFORMLY FINE TEXTURE. ROLL AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISH GRADES. ALL BED AREAS SHALL BE BERMED TO PROMOTE GOOD BED DRAINAGE (AFTER GENTLE TOPSOIL TAMPING).
16. ALL CONSTRUCTION AREAS ON THE SUBJECT CVS PHARMACY SITE TO RECEIVE TURFGRASS SHALL RECEIVE A 6" MIN DEPTH OF SUITABLE TOPSOIL MIX PER DETAILS AND SPECIFICATIONS.
17. PRIOR TO PLANTING OR SEEDING, MULTIPLE REPRESENTATIVE SAMPLES OF THE TOPSOIL SOURCE SHALL BE TAKEN AND SENT TO A QUALIFIED TESTING AGENCY FOR ANALYSIS. FERTILIZE SUITABLE TOPSOIL IN TURFGRASS AREAS AS PER TESTING AGENCY'S RECOMMENDATIONS FOR TURFGRASS SPECIES SPECIFIED ON PLANS. THE PLANTING BED MIX TO BE USED IN SHRUB PLANTING BEDS IS TO BE FERTILIZED AS PER TESTING AGENCY'S RECOMMENDATIONS FOR ORNAMENTAL PLANTINGS.
18. ALL PLANTING BEDS SHALL HAVE 'SURFLAN' OR EQUAL PRE-EMMERGENT HERBICIDE BROADCAST AT RATE RECOMMENDED BY MANUFACTURER.
19. PLANTING OPERATIONS SHOULD ONLY TAKE PLACE DURING SUITABLE WEATHER CONDITIONS. PLANTS ARE NOT TO BE INSTALLED WHEN THE SOIL IS EITHER HIGHLY SATURATED OR FROZEN.
20. ANY PLANT MATERIAL WHICH DIES, TURNS BROWN, OR DEFOLIATES (PRIOR TO TOTAL ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.
21. DURING THE GROWING SEASON ALL ANNUALS SHALL REMAIN IN A HEALTHY, VIABLE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
22. ALL PLANTING AREAS, SHRUB, GROUND COVER AND SEASONAL COLOR ANNUAL PLANTING BEDS, ARE TO BE COMPLETELY COVERED WITH SHREDDED HARDWOOD MULCH AND SHALL MAINTAIN A MINIMUM LAYER OF FOUR INCHES (4") IN DEPTH AFTER SETTLING.
23. THERE IS NO SEPARATE PAY ITEM FOR DRESSING OUT SHRUB BEDS OR TREE SAUCERS WITH SHREDDED HARDWOOD MULCH, IT SHALL BE INCLUDED WITH THE COST OF ALL PLANT MATERIALS.
24. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK. ALL PLANT MATERIALS QUANTITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANTING BEDS AT SPACING SHOWN.
25. ALL UNSURFACED AREAS, EXCEPT FOR THE UNSURFACED PARCEL ADJACENT TO THE SUBJECT CVS PARCEL, SHALL RECEIVE A 6" LAYER OF SUITABLE TOPSOIL AND SOD. THE UNSURFACED PARCEL ADJACENT TO THE CVS PARCEL SHALL RECEIVE A 2" LAYER OF SUITABLE TOPSOIL AND SEED. WATER UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
26. THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING (INCLUDING BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ETC) OF THE PLANTING AREAS AND LAWN UNTIL APPROVED BY THE LANDSCAPE ARCHITECT AND THE WORK IS ACCEPTED IN TOTAL BY THE OWNER.
27. ALL PLANT MATERIALS SHALL BE UNCONDITIONALLY GUARANTEED IN ACCORDANCE WITH THE FOLLOWING SPECIAL WARRANTY GUIDELINES AGAINST ALL DEFECTS INCLUDING DEATH AND UNSATISFACTORY GROWTH.
    - WARRANTY PERIOD FOR TREES AND SHRUBS: ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION.
    - WARRANTY PERIOD FOR GROUND COVER AND PLANTS: SIX MONTHS FROM DATE OF SUBSTANTIAL COMPLETION.
28. CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL GUY WIRES AT THE END OF THE 1 YEAR WARRANTY PERIOD FOR TREES.
29. REFER TO PROJECT SITEWORK SPECIFICATIONS FOR ALL INFORMATION NEEDED FOR IMPLEMENTATION OF PLANTING PLANS.

PLANTING NOTES

	SHADE AND FLOWERING TREES				
	CALIPER	HEIGHT TYPE 1	HEIGHT TYPE 2	MINIMUM DIAMETER BALL	BALL DEPTH
	INCHES	FEET	FEET	INCHES	INCHES
MEASURED 6" ABOVE GRADE	1"	8'-10'	6'-7'	16"	12"
	1-1/2"	10'-12'	8'-9'	20"	15"
	2"	12'-14'	8'-10'	24"	16"
	2-1/2"	12'-14'	8'-10'	28"	18"
	3"	14'-16'	10'-12'	32"	19"
	3-1/2"	14'-16'	10'-12'	38"	23"
	4"	16'-18'	10'-12'	42"	25"
MEASURED 12" ABOVE GRADE	4-1/2"	16'-18'	10'-12'	48"	29"
	5"	18'+	12'+	54"	32"
	5-1/2"	18'+	12'+	57"	34"
	6"	20'+	14'+	60"	36"
	7"	24'+	16'+	70"	42"
	8"	26'+	18'+	80"	48"

SOURCE: AMERICAN STANDARD FOR NURSERY STOCK – CALIPER TAKES PRECEDENCE OVER HEIGHT FOR TYPE I SHADE TREES.

TYPE 1 (LARGE SHADE TREES)
ACER RUBRUM
ACER SACCHARUM
BETULA *SPP*
GINKGO *SPP*
GLEDITISA *SPP*
PLATANUS *SPP*
QUERCUS *SPP*
TAXODIUM *SPP*
SALIX *SPP*
ZELKOVA *SPP*

TYPE 2 (MEDIUM/SLOW SHADE TREES)
AESCULUS *SPP*
CELTIS *SPP*
CLADRASTIS LUTEA
FAGUS SYLVATICA
KOELREUTERIA *SPP*
LABURNUM *SPP*
LIQUIDAMBAR *SPP*
MAGNOLIA GRANDIFLORA
NYSSA *SPP*
OLEA EUROPA
QUERCUS ALBA
SORBUS *SPP*
TILIA CORDATA
ULMUS PARVIFOLIA

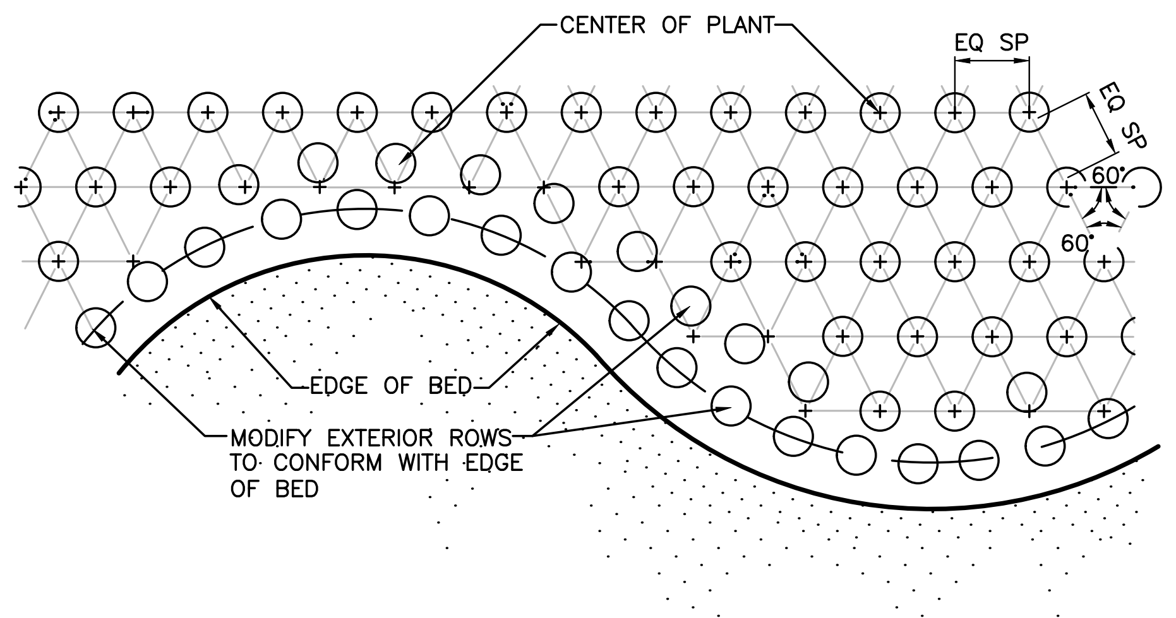
TYPE 3 (SMALL UPRIGHT TREES)
ACER CAMPESTRE
AMELANCHIER *SPP*
CARPINUS *SPP*
CERCIS *SPP*
CRATAEGUS *SPP*
OXYDENDRUM *SPP*
MAGNOLIA VIRGINIANA
PRUNUS *SPP*
PYRUS *SPP*
STYRAX *SPP*
SYRINGA RETICULATA

TYPE 4 (SMALL SPREADING TREES)
ACER PALMATUM
ACER GRISEUM
CORNUS *SPP*
LAGERSTROMIA *SPP*
MAGNOLIA SOULANGIANA
MAGNOLIA STELLATA
VITEX *SPP*

ALL MINIMUM SIZES SHALL BE MET: CALIPER, HEIGHT, AND ROOT BALL

TREE SIZE/ROOT BALL RELATIONSHIP

SPACING VARIES WITH PLANT SPECIES. SEE PLAN FOR SPACING.

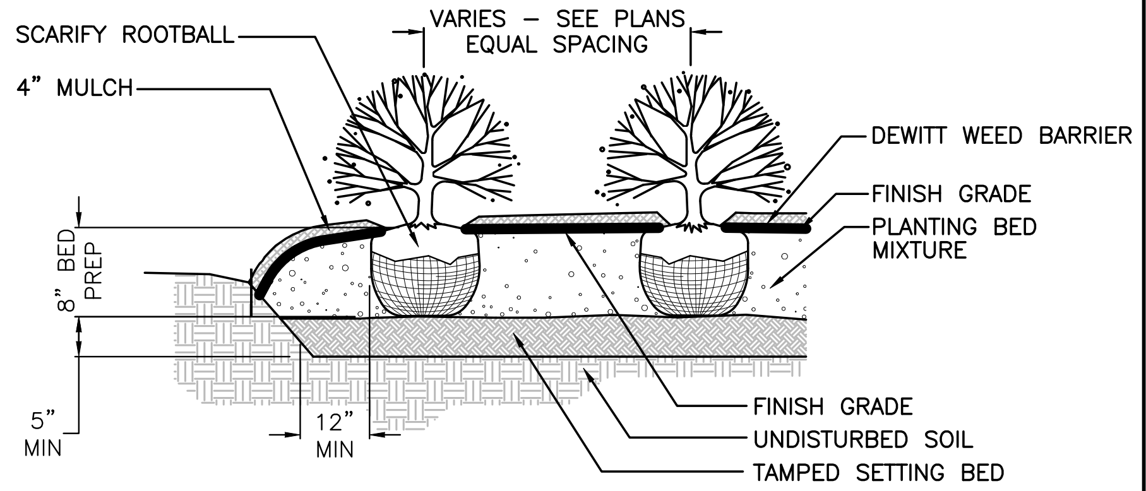


*MULCH SHALL BE KEPT AWAY FROM THE TRUNK OF ALL PLANT MATERIAL

NTS

PLANT SPACING

TYPICAL BED LAYOUT:
1. LAYOUT PERIMETER PLANTING SPACED AS PER PLAN.
2. FILL IN PLANTING BED WITH TRIANGULAR SPACING.
3. ADJUST AS PER LANDSCAPE ARCHITECT'S INSTRUCTIONS.



NTS

* NOTE:
MULCH SHALL BE A 4" LAYER OF SHREDDED HARDWOOD MULCH AFTER SETTLING – UNLESS OTHERWISE NOTED

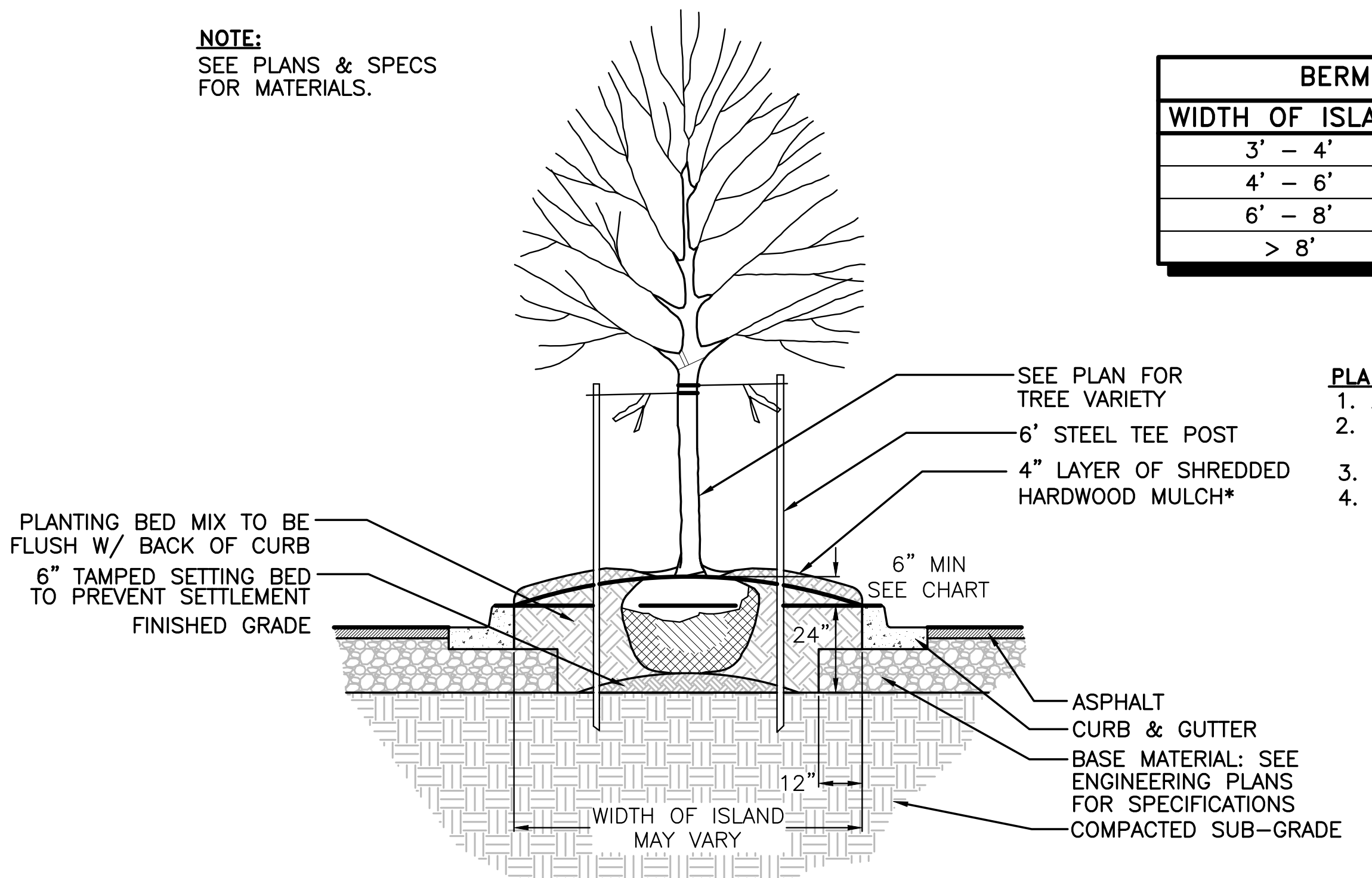
*MULCH SHALL BE KEPT AWAY FROM THE TRUNK OF ALL PLANT MATERIAL.

SHRUB PLANTINGS

PARKING LOT ISLAND PREPARATION
1. REMOVE ALL THE COMPACTED STONE AND FILL DIRT OUT OF THE CENTER OF THE ISLANDS DOWN TO A DEPTH OF 24" BELOW THE TOP OF THE CONCRETE CURB.
2. ADD PLANTING BED MIX AND FIRMLY TAMP TO CREATE A SETTING BED (6" MIN) UNDER ROOTBALL.
5. ADD 24" OF SUITABLE PLANTING BED MIX ON TOP OF THE WASHED GRAVEL. LIGHTLY TAMP THE PLANTING BED MIX IN 8" LIFTS.
6. ADD ANOTHER LAYER OF PLANTING BED MIX IN ADDITION TO THE 24" LAYER TO ACHIEVE THE REQUIRED BERMING EFFECT. MAKE SURE TO ADD THE NECESSARY AMOUNT OF PLANTING BED MIX TO ACHIEVE THE CORRECT BERMING HEIGHT.

NOTE:
SEE PLANS & SPECS FOR MATERIALS.

BERMING CHART	
WIDTH OF ISLAND	BERM HEIGHT
3' – 4'	6"
4' – 6'	8"
6' – 8'	12"
> 8'	1-1/2" / 1'-0" WIDTH



PLANTING BED MIX:
1. 20% OF EXISTING SOIL
2. 15% PEAT MOSS, HUMUS, OR SOIL CONDITIONER
3. 40% SAND
4. 25% TOPSOIL

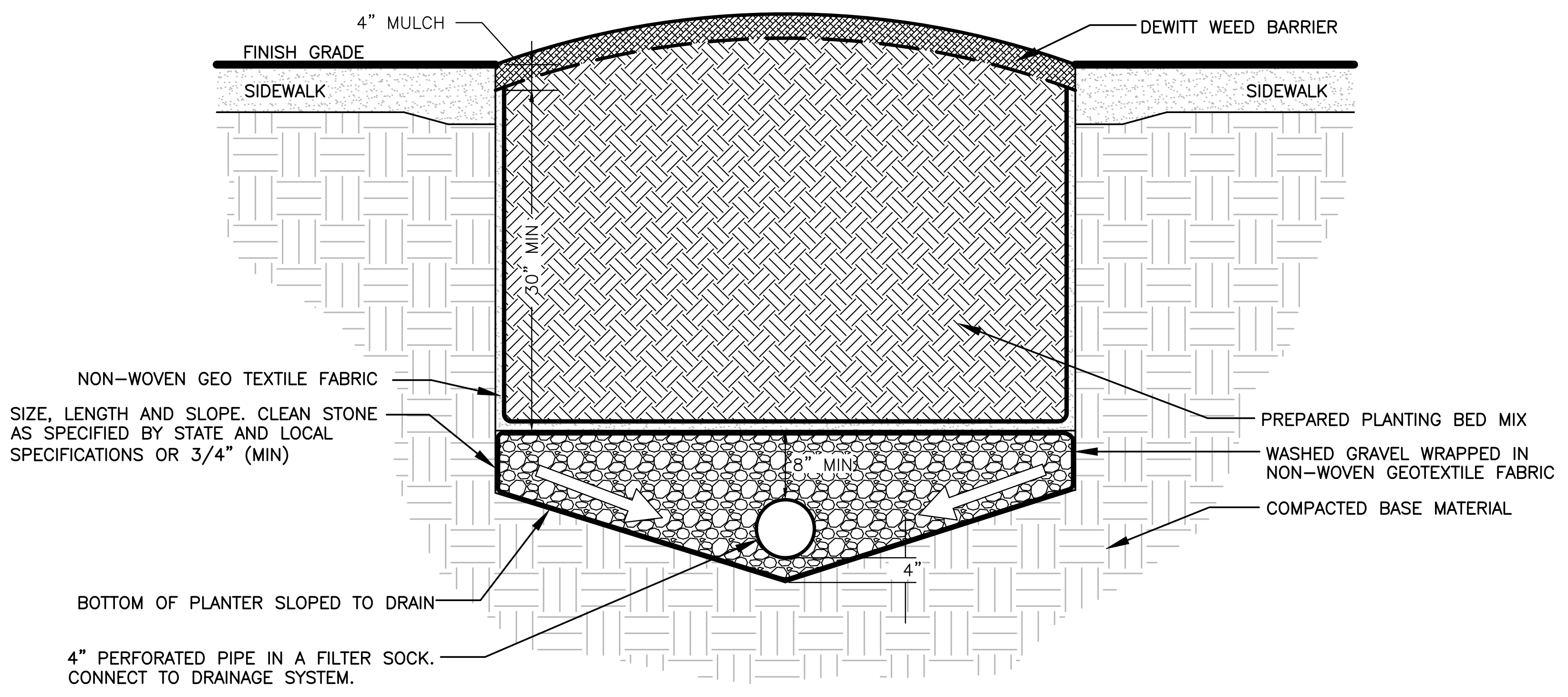
USE THE BERMING CHART ABOVE TO CALCULATE BERM HEIGHTS FOR EACH ISLAND.

ALL TREE STAKING MATERIAL IS TO BE REMOVED AFTER THE FIRST FULL GROWING SEASON

*MULCH TO BE KEPT AWAY FROM THE TRUNK OF ALL PLANT MATERIAL.

TYPICAL ISLAND

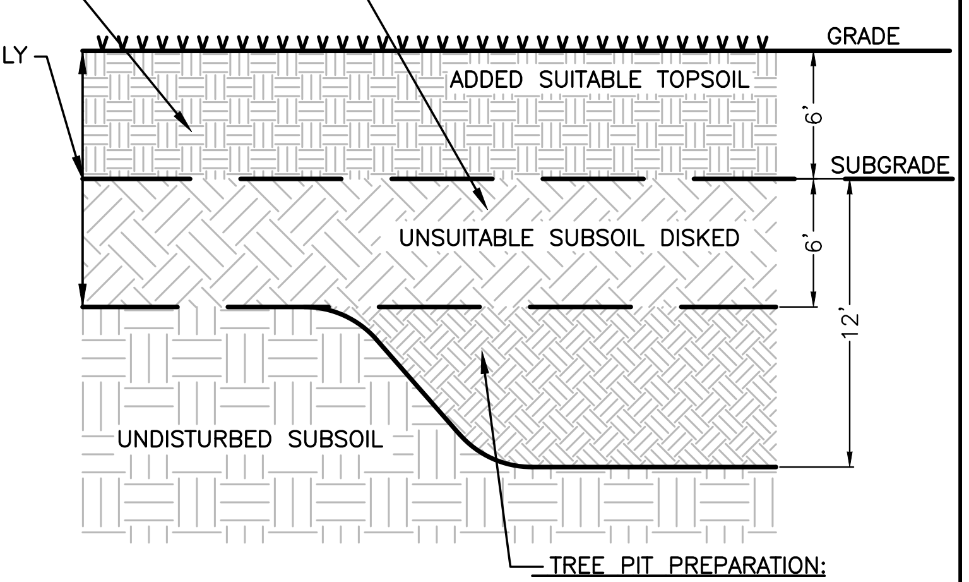
NTS



AT GRADE PLANTER

PLANTER DRAIN

TURF AREA PREPARATION
(ALL AREAS TO RECEIVE SOD ON SUBJECT CVS SITE)
1. TOP 6" OF EXPOSED UNSUITABLE SUBSOIL TO BE DISKED
2. ADD 6" OF SUITABLE TOPSOIL MIX
3. BLEND THOROUGHLY

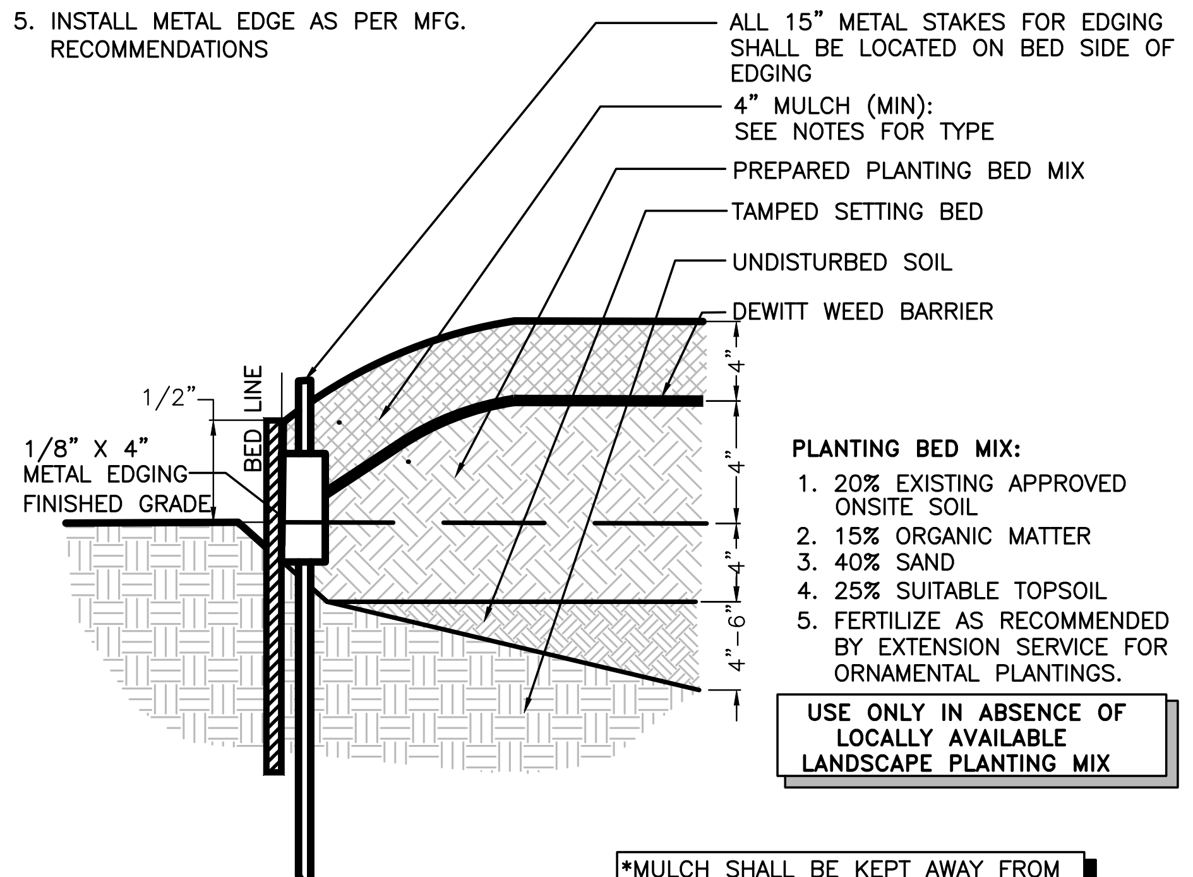


TREE PIT PREPARATION:
1. EXCAVATE 20' R PIT AROUND EACH MAJOR TREE LOCATION TO A DEPTH OF 12" BELOW SUBGRADE
2. REPLACE 50% OF EXISTING SUBSOIL WITH SUITABLE TOPSOIL
3. BLEND THOROUGHLY

UNSUITABLE SUBSOIL AMENDMENT

NTS

PLANTING BED PREPARATION:
1. LAYOUT BED LINE USING SMOOTH FLOWING CURVES.
2. CUT INTO EXISTING SOIL AT APPROXIMATELY A 60° ANGLE, TURNING SOIL BACK INTO BED AREA.
3. ADD AMENDMENTS AND TILL BED UNTIL BLENDED.
4. MAINTAIN CUT EDGE AT 3" DEPTH TO HOLD MULCH IN PLACE.
5. INSTALL METAL EDGE AS PER MFG. RECOMMENDATIONS



PLANTING BED MIX:
1. 20% EXISTING APPROVED ONSITE SOIL
2. 15% ORGANIC MATTER
3. 40% SAND
4. 25% SUITABLE TOPSOIL
5. FERTILIZE AS RECOMMENDED BY EXTENSION SERVICE FOR ORNAMENTAL PLANTINGS.

USE ONLY IN ABSENCE OF LOCALLY AVAILABLE LANDSCAPE PLANTING MIX

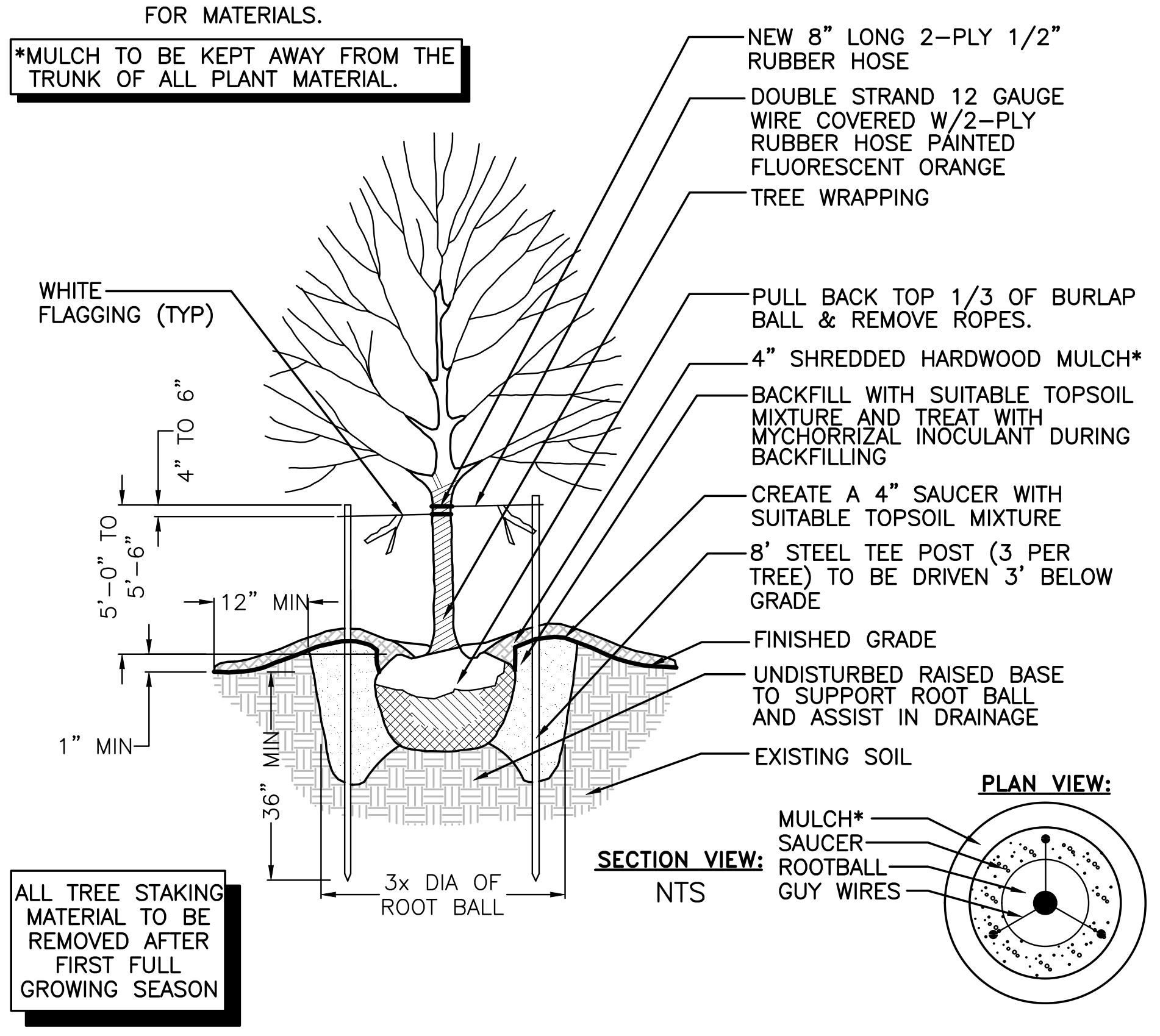
*MULCH SHALL BE KEPT AWAY FROM THE TRUNK OF ALL PLANT MATERIAL

NTS

PLANTING BED PREP w/ EDGING

NOTE: SEE PLANS & SPECS FOR MATERIALS.

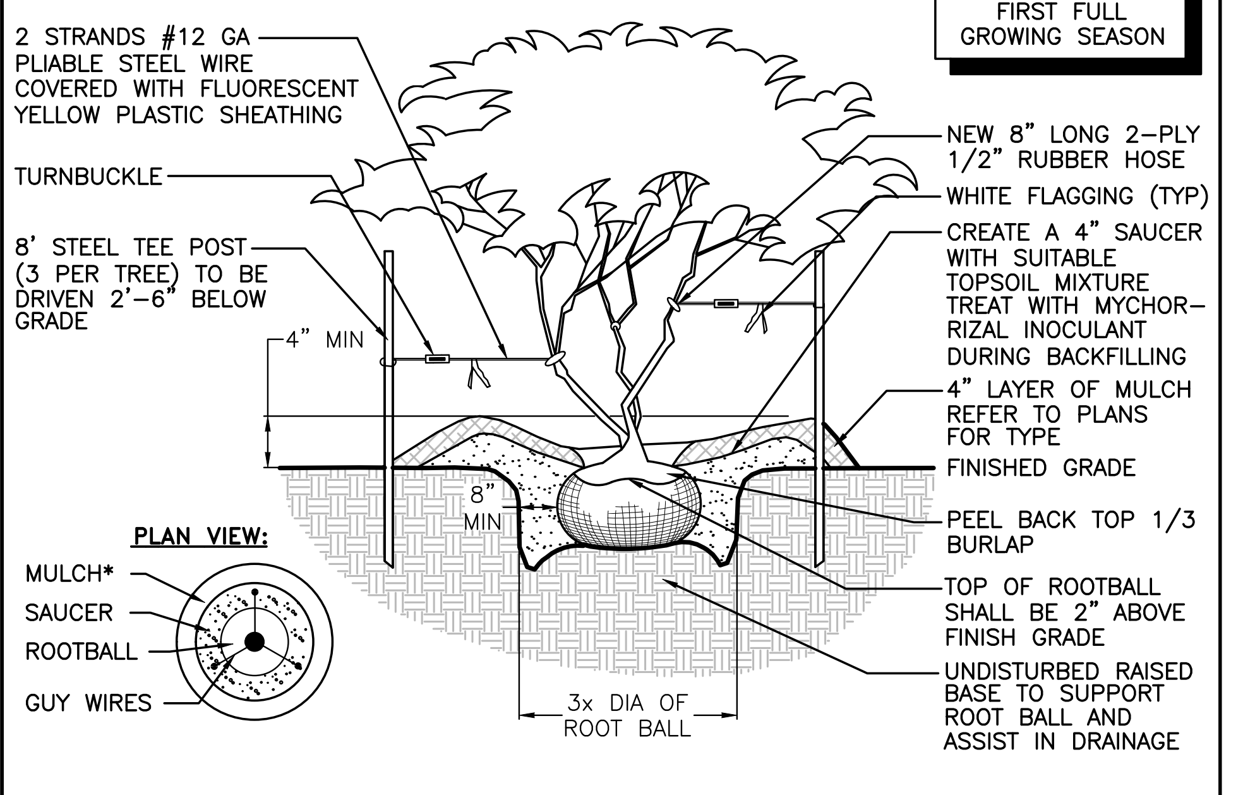
*MULCH TO BE KEPT AWAY FROM THE TRUNK OF ALL PLANT MATERIAL.



ALL TREE STAKING MATERIAL TO BE REMOVED AFTER FIRST FULL GROWING SEASON

TREE PLANTING

ALL TREE STAKING MATERIAL SHALL BE REMOVED AFTER FIRST FULL GROWING SEASON

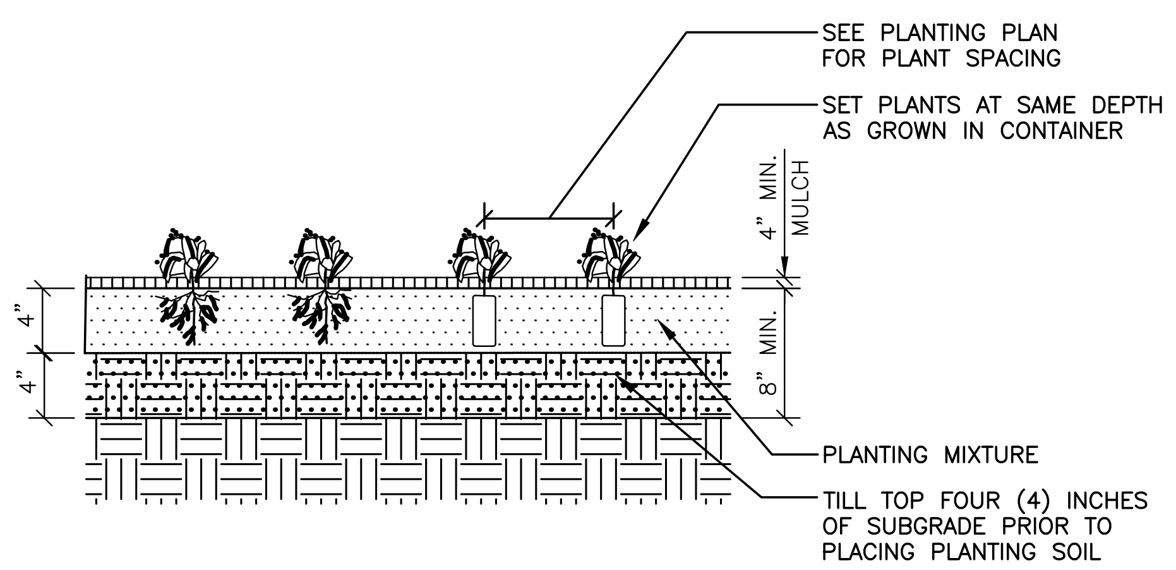


NOTE:
1. WITH MULTI-TRUNK PLANTS ATTACH GUYS TO VARIOUS LIMBS.
2. SELECT PRUNE 1/3 BRANCHING HABIT CONFORM TO HORT. PRACTICES AS EST BY AMERICAN ASSOC OF NURSERYMEN-AMERICAN STD FOR NURSERY STOCK, LATEST EDITION. (TYP FOR ALL TREE AND SHRUB PLANT MAT'L). RECEIVE LANDSCAPE ARCH'S APPROVAL.
3. TREES OF SAME SPECIES SHALL BE MATCHED IN GROWTH AND UNIFORMITY.

* ALL MULCH SHALL BE KEPT FROM THE TRUNK OF ALL PLANT MATERIAL.

MULTI-TRUNKED TREE PLANTING

TYPICAL BED LAYOUT:
1. LAYOUT PERIMETER PLANTING SPACED AS PER PLAN.
2. FILL IN PLANTING BED WITH TRIANGULAR SPACING.
3. ADJUST AS PER LANDSCAPE ARCHITECT'S INSTRUCTIONS.



NOTE:
ALL PLANTS SHOULD BE INSTALLED WITH TRIANGULAR SPACING

TOP OF ROOTBALL TO BE 1-2" HIGHER THAN GRADE

MULCH SHALL BE A 4" LAYER OF SHREDDED HARDWOOD MULCH AFTER SETTLING – UNLESS OTHERWISE NOTED

*MULCH SHALL BE KEPT AWAY FROM THE TRUNK OF ALL PLANT MATERIAL.

GROUNDCOVER PLANTING DETAIL

NTS

SITE NUMBER:	4955
BASE MODEL:	SMART 55-NARROW 2017
ASSET TYPE:	FRANCHISE
CLASSIFICATION:	NEW
OWNER:	MERITAGE HOSPITALITY
BASE VERSION:	2017
UPGRADE CLASSIFICATION:	NEW BUILD
PROJECT YEAR:	2019
FURNITURE PACKAGE:	2016 V3
DESIGN BULLETINS:	FALL 2018

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AR CORPORATION #397

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Call before you dig.
3 business days prior to excavation:

PROJECT TYPE: 2018 CIVIL PROTOTYPE

Wendy's
6781 E SHELBY DR
MEMPHIS, TN 38141

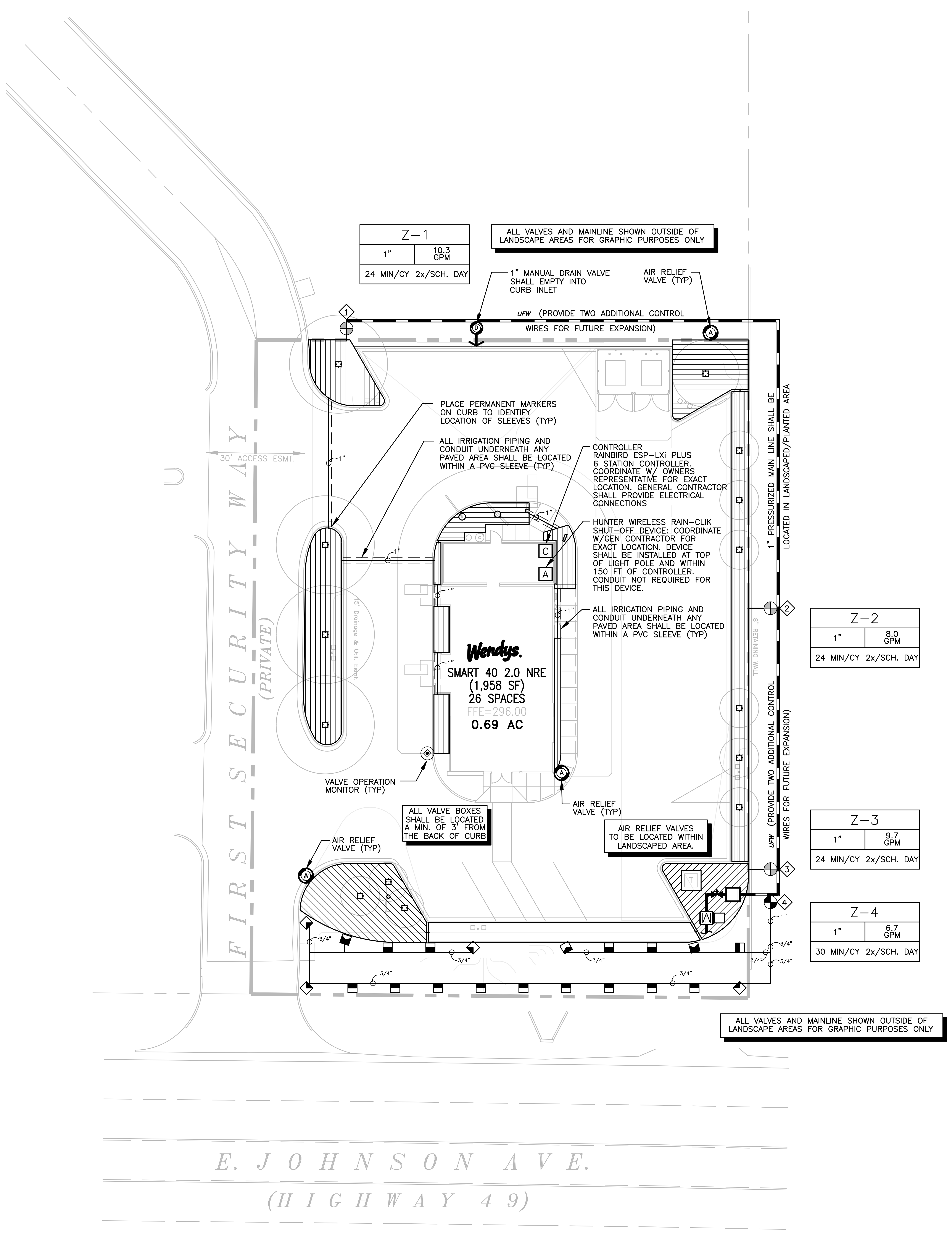
REV.	DATE	DESCRIPTION

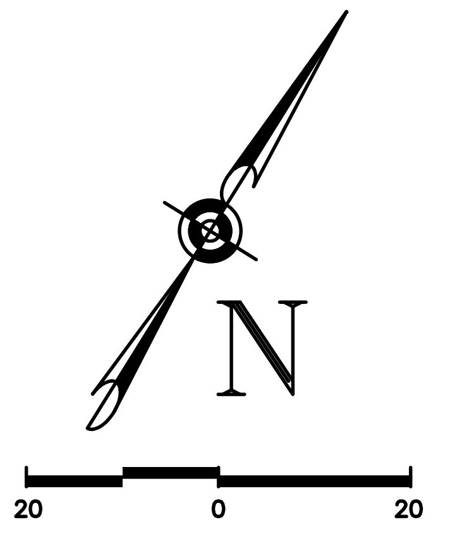
ISSUE DATE: 1/17/19
PROJECT NUMBER: N/A
DRAWN BY: TGH
CHECKED BY: JSP

CHARLES R. WALKER
License Number 5074
3/12/19

SHEET NAME
LANDSCAPE DETAILS

SHEET NUMBER
L1.1





STATIC WATER PRESSURE FROM CITY ___???___ PSI
\+ BOOSTER PUMP ___???___ PSI
TOTAL AVAILABLE WATER PRESSURE FOR IRRIGATION ___???___ PSI
PRESSURE DEMAND ON SYSTEM ___???___ PSI

MAINLINE FOR IRRIGATION SYSTEM SHALL BE BEDDED WITHIN TRENCH AS PER WATERLINE SPECIFICATIONS. LATERIAL LINES MAY BE AND SHALL BE BACKFILLED AS PER SPECIFICATIONS IN A COMMON TRENCH WITH THE MAIN LINE PROVIDED MINIMIUM SEPARATION IS PROVIDED

MAINLINE FOR IRRIGATION SYSTEM SHALL NOT ENCROACH UPON R.O.W. OR OTHER LOTS. ALL COMPONENTS OF THE IRRIGATION SYSTEM SHALL REMAIN ON WENDY'S PROPERTY.

ALL IRRIGATION HEADS SHALL BE LOCATED SO THAT OTHER SITE FEATURES DO NOT OBSTRUCT SPRAY OF IRRIGATION HEADS.

GENERAL CONTRACTOR SHALL ENSURE THAT SLEEVES INSTALLED ARE LARGE ENOUGH TO ACCOMMODATE ALL NECESSARY PIPING, AS PER SPECIFICATIONS.

PERMANENT MARKERS SHALL BE PLACED ON CURBS TO IDENTIFY LOCATIONS OF ALL IRRIGATION SLEEVES.

CONTRACTOR SHALL CONTACT 811 FOR LOCATION OF ALL UTILITIES AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION

CONTROLLER (RAINBIRD ESP-LXi PLUS 12 STATION CONTROLLER) PROGRAMMING SCHEDULE

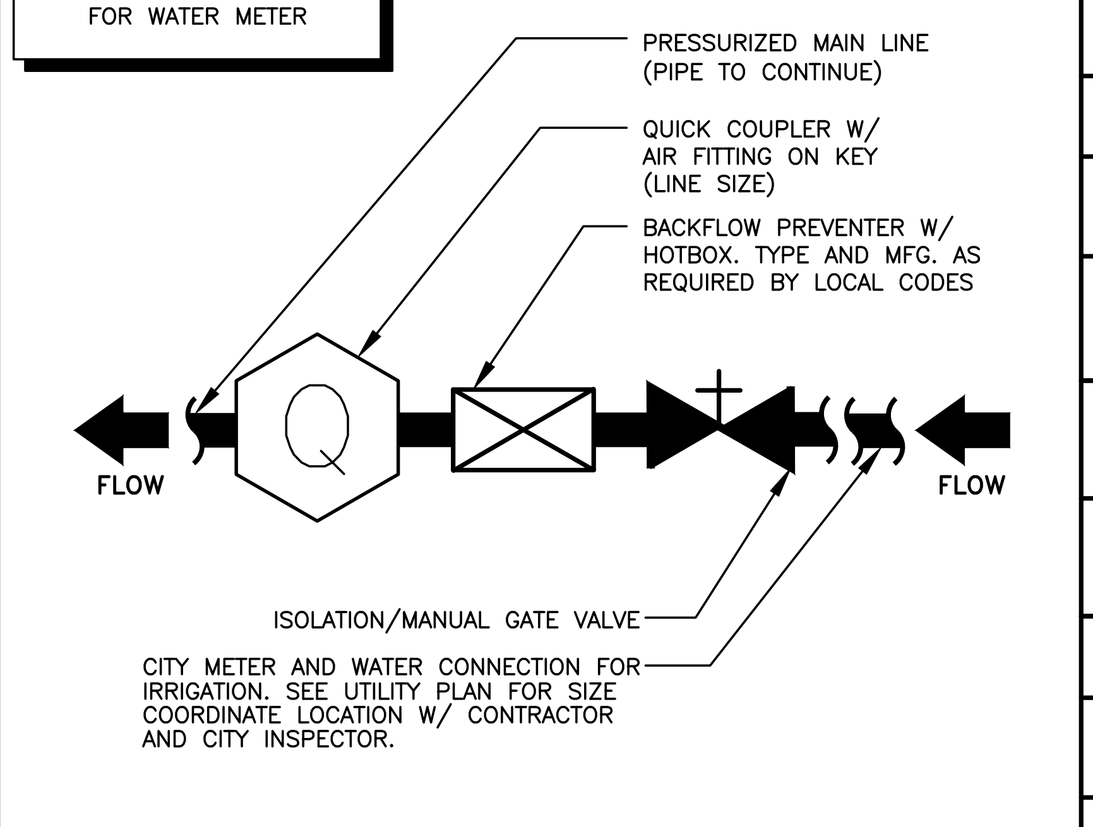
IRRIGATION INTERVAL			EVERY OTHER DAY M 1, T 2, W 3, T 4, F 5, S 6, S 7
# OF START TIMES/SCHEDULED DAY			2
SCHEDULED START TIMES FOR PROGRAM			12:00 AM 3:30 AM
ZONE	ZONE DESCRIPTION	RUN TIME	TOTAL RUN TIME/ SCHEDULED DAY
Z-1	DRIP-NW/BUILDING ZONE	24 MIN/CYCLE	48 MIN
Z-2	DRIP-NE PARKING ZONE	24 MIN/CYCLE	48 MIN
Z-3	DRIP-SOUTH PARKING ZONE	24 MIN/CYCLE	48 MIN
Z-4	TURF-SOUTH PARKING AND E. JOHNSON AVE. ZONE	30 MIN/CYCLE	60 MIN
Z-5	OPEN	–	–
Z-6	OPEN	–	–
RUN TIME TOTALS		1 HRS 42 MIN PER CYCLE	3 HRS 24 MIN PER SCHEDULED DAY

CONTROLLER PROGRAMMING SCHEDULE IS BASED UPON THE BEST KNOWLEDGE OF THE ANTICIPATED POST CONSTRUCTION SITE CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR MONITORING SITE CONDITIONS AND ADJUSTING IRRIGATION WATERING SCHEDULE AS NECESSARY TO MAINTAIN PLANT HEALTH.

PLANT WATER REQUIREMENTS

TREES	ETc = 0.18"/DAY	1.26"/WEEK
TURFGRASS	ETc = 0.25"/DAY	1.75"/WEEK
SHRUB PLANTER	ETc = 0.18"/DAY	1.26"/WEEK

REFER TO UTILITY PLAN FOR ACTUAL LOCATION OF WATER CONNECTION FOR WATER METER

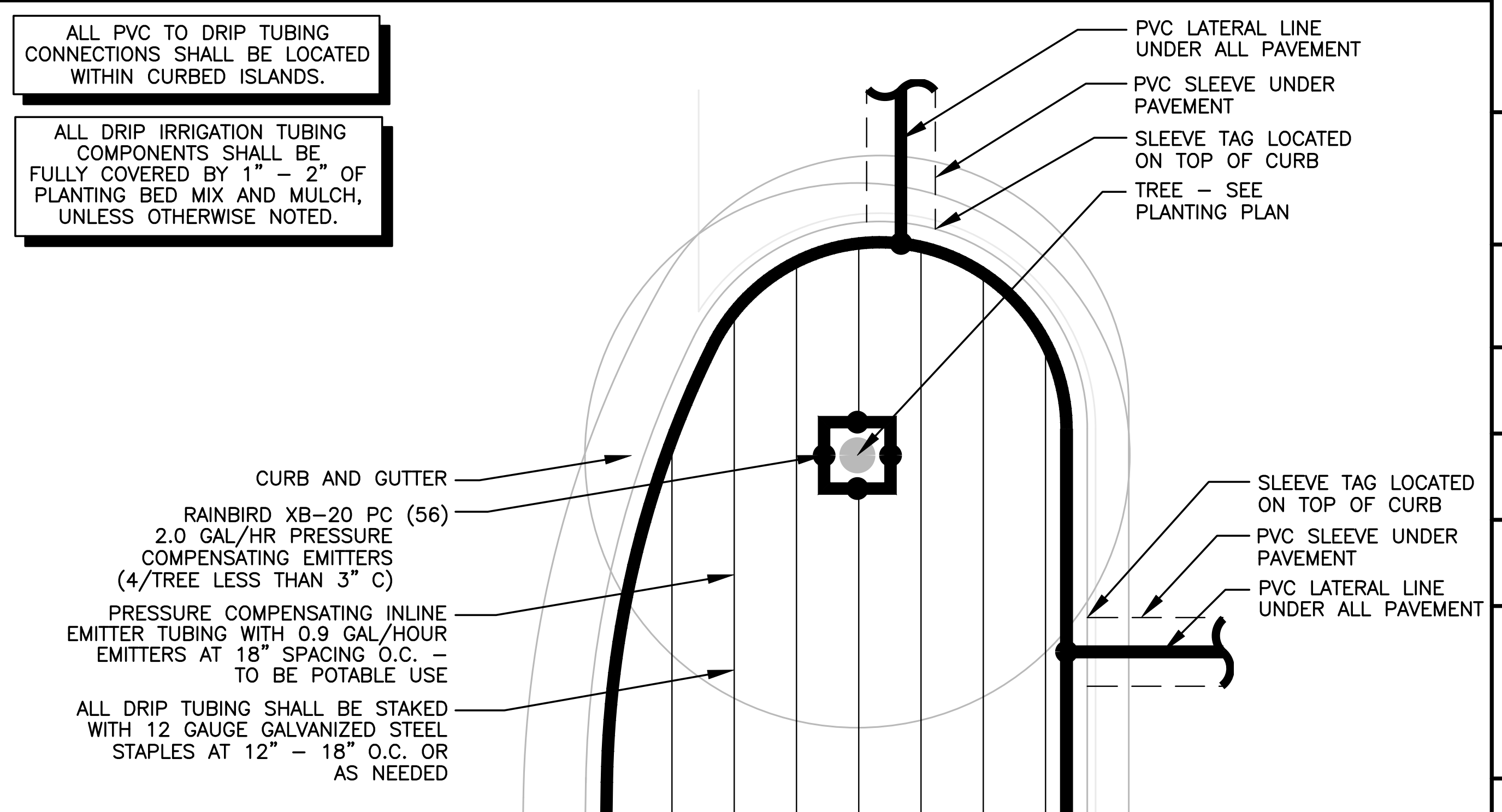


NOT TO SCALE

IRRIGATION CONNECTION DETAIL

ALL PVC TO DRIP TUBING CONNECTIONS SHALL BE LOCATED WITHIN CURBED ISLANDS.

ALL DRIP IRRIGATION TUBING COMPONENTS SHALL BE FULLY COVERED BY 1" – 2" OF PLANTING BED MIX AND MULCH, UNLESS OTHERWISE NOTED.



NOT TO SCALE

IRRIGATION ENLARGEMENT

IRRIGATION LEGEND

CONTRACTOR PROVIDED COMPONENTS	
C	12-STATION IRRIGATION CONTROLLER, WALL MOUNTED IN LOCKING CABINET-RAINBIRD ESP-LXi PLUS
A	WIRELESS RAIN/FREEZE SENSOR – HUNTER MINI-CLIK
□	IRRIGATION CONNECTION COMPONENTS
W	IRRIGATION WATER TAP AND CITY WATER METER ON POTABLE WATER UTILITY LINE WITH BACKFLOW PREVENTER. PROVIDED BY CONTRACTOR. COORDINATE SOURCE LOCATION WITH GENERAL CONTRACTOR. SEE UTILITY PLAN FOR SIZE.
☒	REDUCED PRESSURE BACKFLOW DEVICE (LINE SIZE), PER LOCAL CODES. PROVIDE GREEN FIBERGLASS INSULATED ENCLOSURE, VERIFY EXACT LOCATION IN FIELD. FEBCO 825Y, OR EQUAL.
⋈	ISOLATION VALVE (LINE SIZE). PROVIDE 15" VALVE BOX WITH EXTENSIONS. BRONZE THREAD ON TYPE WITH WHEEL HANDLE.
Q	BRONZE QUICK COUPLER VALVE (LINE SIZE). MOUNT ON SPEARS PVC OR RAINBIRD O-RING TYPE PVC SWING JOINT. MOUNT IN 15" RECTANGULAR VALVE BOX. PROVIDE ONE (SIZE APPROPRIATE) QC KEY PER FOUR QUICK COUPLER VALVES. RAINBIRD 4 RC.
◈	VALVE OPERATION MONITOR – CAPPED IRRIGATION SPRAY HEAD
D	MANUAL DRAIN-VALVE: MAIN LINE SIZE
A	AIR RELIEF VALVES WITH REMOVABLE FLUSH CAPS TO BE LOCATED AT ALL ZONES WHERE INLINE EMITTER TUBING IS USED.
X	ELECTRIC IRRIGATION VALVE. PLASTIC BODY WITH FLOW CONTROL MOUNTED IN 15" STANDARD PLASTIC VALVE BOX. SIZE INDICATED ON DRAWING RAINBIRD PEB SERIES. "X" IS ZONE DESIGNATION. **FOR USE IN TURF ZONES.**
X	1-1/2" ELECTRIC IRRIGATION VALVE. PLASTIC BODY WITH FLOW CONTROL MOUNTED IN 15" STANDARD PLASTIC VALVE BOX. "X" IS ZONE DESIGNATION. **FOR USE IN DRIP ZONES WHERE THE FLOW RATE IS BETWEEN 15.0 GPM AND 35.0 GPM.**
X	1" MEDIUM FLOW VALVE WITH 40 PSI PRESSURE REDUCER MOUNTED IN 15" STANDARD PLASTIC VALVE BOX. "X" IS ZONE DESIGNATION. **FOR USE IN ZONES WHERE THE FLOW RATE IS BETWEEN 4.0 GPM AND 15.0 GPM.**
UFW	UNDERGROUND FEEDER WIRE NO. 14 AWG DIRECT BURIAL RUN IN CONDUIT.
= = =	PVC SLEEVE SCHEDULE 40 PVC UNDER ALL PAVED SURFACES. SEE SCHEDULE FOR SIZE. PLACE PERMANENT MARKERS ON CURB TO IDENTIFY LOCATION.
SIZE	PVC MAINLINE PIPE. SCHEDULE 40, PVC PIPE. 2.5" AND SMALLER-SOLVENT WELD PIPE AND PVC SOLVENT WELD FITTINGS. PVC SLEEVES SHALL BE REQUIRED UNDER SIDEWALKS, CURBS, OR ANY PAVED SURFACES. REFER TO SPECIFICATIONS FOR SIZES OF SLEEVES.
SIZE	PVC LATERAL PIPE. CLASS 200, SOLVENT WELD, PVC PIPE FOR PIPE OVER 1" IN DIAMETER. SIZE LATERAL PIPE AS SHOWN AT VELOCITIES OF 5 FEET PER SECOND OR LESS. PVC SLEEVES SHALL BE REQUIRED UNDER SIDEWALKS, CURBS, OR ANY PAVED SURFACES. REFER TO SPECIFICATIONS FOR SIZES OF SLEEVES.
SIZE	PVC LATERAL PIPE. CLASS 315, SOLVENT WELD, PVC PIPE FOR PIPE 1" IN DIAMETER OR LESS. SIZE LATERAL PIPE AS SHOWN AT VELOCITIES OF 5 FEET PER SECOND OR LESS. PVC SLEEVES SHALL BE REQUIRED UNDER SIDEWALKS, CURBS, OR ANY PAVED SURFACES. REFER TO SPECIFICATIONS FOR SIZES OF SLEEVES.
—	RAINBIRD 1/2" POLYETHYLENE TUBING TO BE EITHER: • PRESSURE COMPENSATING INLINE EMITTER TUBING WITH 0.9 GAL/HOUR EMITTERS AT 18" SPACING O.C. OR • XBS 1/2" BLANK TUBING, AS LABELED ON PLANS.
1"	PIPE SIZE – UNLABELED PIPE BETWEEN 2 SIZES SHALL BE THE LARGER SIZE.
┬	PIPE JOINT
┼	PIPES CROSS. DO NOT INTERSECT
Z-3 1" 3.2 GPM 12 MIN/CY 4x/SCH. DAY	XX.XX – CONTROLLER STATION NUMBER X – GALLONS PER MINUTE X – SIZE OF VALVE XX.XX XX.XX – FREQUENCY AND DURATION OF ZONE RUN TIME
	1. THE POINT OF CONNECTION IS A WATERLINE STUBBED AT THE NORTHEAST CORNER OF THE SITE. SERVICE COMES FROM METER AND BACKFLOW PREVENTER. 2. REFER TO UTILITY PLAN, THIS SET, FOR ADDITIONAL INFORMATION.

SITE NUMBER: 13006
BASE MODEL: 2018 PROTOTYPE
ASSET TYPE: COMPANY
CLASSIFICATION: NEW
OWNER: COMPANY
BASE VERSION: 2018
UPGRADE CLASSIFICATION: COMPANY NEW BUILD
PROJECT YEAR: 2018
FURNITURE PACKAGE: XXX
DESIGN BULLETINS: –

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AR CORPORATION #397

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PROJECT TYPE: 2018 CIVIL PROTOTYPE

Wendy's
4204 E. JOHNSON AVE.
JONESBORO, AR 72401

REV.	DATE	DESCRIPTION

ISSUE DATE: 3/1/19
PROJECT NUMBER: N/A
DRAWN BY: TGH
CHECKED BY: DLC

LICENSED LANDSCAPE ARCHITECT
CHARLES R. WALKER
STATE OF ARKANSAS
3/12/19

SHEET NAME
IRRIGATION PLAN

SHEET NUMBER
L2.0

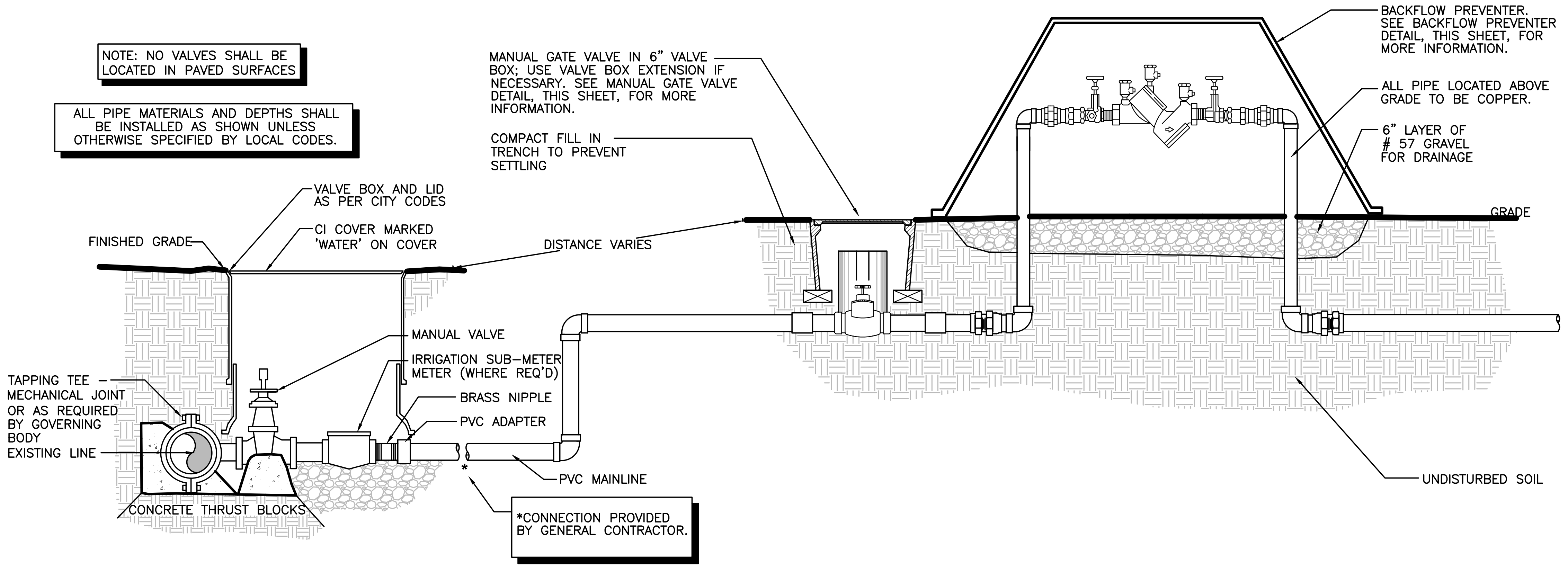
IRRIGATION NOTES

1. THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF THE PROJECT SPECIFICATIONS PRIOR TO BIDDING. THE PROJECT SPECIFICATIONS ARE A PART OF THESE PLANS AND SHALL BE CONSULTED BY THE IRRIGATION CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING WORK AS SPECIFIED IN THE PROJECT SPECIFICATIONS AND ON THE PLANS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS AND LABOR TO FULLY EXECUTE, GUARANTEE, AND MAINTAIN THE SYSTEM AS REQUIRED. THE TOTAL WORK SHOWN ON THIS PLAN SHALL BE DONE IN ACCORDANCE WITH SPECIFICATIONS, AND ALSO AS PER INSTRUCTIONS OF THE CONTRACTING OFFICER.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, EQUIPMENT QUANTITIES, AND UTILITY LOCATIONS PRIOR TO BEGINNING WORK.
4. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES IN PLANS OR SPECIFICATIONS PRIOR TO BEGINNING OR CONTINUING WORK.
5. ALL CONSTRUCTION SHALL CONFORM TO CITY, COUNTY, STATE, AND FEDERAL REQUIREMENTS. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO ENSURE THAT ALL IRRIGATION EQUIPMENT MEETS GOVERNMENT REGULATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS OR APPROVALS.
6. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTANCES, ETC WHICH OCCURS AS A RESULT OF THE IRRIGATION CONSTRUCTION TO OWNER'S SATISFACTION, AT NO ADDITIONAL COST.
7. NO PART OF THE IRRIGATION SYSTEM SHALL BE INSTALLED IN CONFLICT WITH UTILITIES. THE CONTRACTOR SHALL MAKE ANY NECESSARY ADJUSTMENTS IN THE PROPOSED IRRIGATION SYSTEM TO AVOID CONFLICTS WITH EXISTING STRUCTURES, PAVING, AND UTILITIES.
8. ALL CALCULATIONS INDICATED ON THIS SHEET ARE SAMPLE CALCULATIONS AND SHOULD NOT BE CONSTRUED AS ACCURATE.
9. 62.5 PSI STATIC WATER PRESSURE IS REQUIRED FOR THE EFFICIENT OPERATION OF THE IRRIGATION SYSTEM AS DESIGNED. VERIFY 62.5 PSI STATIC WATER PRESSURE IS AVAILABLE AT THE PROJECT SITE PRIOR TO BEGINNING THE IRRIGATION INSTALLATION. NOTIFY THE LANDSCAPE ARCHITECT IF THE MINIMUM WATER PRESSURE IS NOT AVAILABLE.
10. IRRIGATION CONTRACTOR TO VERIFY ACTUAL AVAILABLE WATER PRESSURE BEFORE BEGINNING INSTALLATION. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IF AVAILABLE WATER PRESSURE EXCEEDS 5 PSI HIGHER OR LOWER THAN MINIMUM REQUIRED WATER PRESSURE.
11. IF STATIC WATER PRESSURES ARE NOT ADEQUATE TO OPERATE IRRIGATION SYSTEM, A PUMP SYSTEM IS TO BE DESIGNED BY AN IRRIGATION SYSTEM DESIGNER. IRRIGATION PUMP INSTALLATION MUST BE COORDINATED WITH THE ELECTRICAL CONTRACTOR. PUMP MUST BE INSTALLED WITHIN A TAMPER PROOF ENCLOSURE.
12. IF STATIC WATER PRESSURES EXCEEDS 75 PSI, PRESSURE COMPENSATING HEADS MUST BE USED.
13. IRRIGATION SYSTEMS CONNECTED TO POTABLE WATER SUPPLY SHALL HAVE A WATTS, FEBCO, OR WILKINS REDUCED PRESSURE BACKFLOW PREVENTER (ASSE# 1013) INSTALLED, OR AS REQUIRED BY LOCAL CODES.
14. ELECTRICAL SERVICE TO ALL EQUIPMENT SHALL BE PROVIDED TO A JUNCTION BOX AT THE EQUIPMENT LOCATION.
15. THE LOCATION OF THE AUTOMATIC CONTROL CLOCK IS GENERALLY INDICATED ON THE DRAWING AND WILL BE SPECIFICALLY LOCATED ON-SITE BY THE CONTRACTING OFFICER. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL CONNECTIONS FROM CONTROL VALVES TO THE CONTROL CLOCK.
16. EACH CONTROL CLOCK HAS STATIONS THAT ARE NOT BEING UTILIZED. THERE IS TO BE A FIELD WIRE INSTALLED TO THE FURTHEST CONTROL VALVE IN ANY ONE DIRECTION FROM THE CONTROL CLOCK FOR EVERY VACANT STATION PLUS ONE SPARE WIRE IS TO BE INSTALLED IN CASE OF A FAULTY WIRE.
17. VALVE WIRE SHALL BE #14 GAUGE UL-UF SINGLE STRAND DIRECT BURIAL COPPER RUN IN A BURIED CONDUIT. ALL SPLICES ARE TO BE MADE WITH MANUFACTURER'S PACKAGED KIT CONSISTING OF INSULATING, SPRING-TYPE CONNECTOR OR CRIMPED JOINT AND EPOXY RESIN MOISTURE SEAL; SUITABLE FOR DIRECT BURIAL. COIL WIRE EVERY 100' FOR EXPANSION AND CONTRACTION PURPOSES.
18. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO HAVE ALL PLANTING AREAS FLAGGED BY THE LANDSCAPE CONTRACTOR PRIOR TO INSTALLATION. REFER TO THE PLANTING PLANS WHEN TRENCHING TO AVOID TREES AND SHRUBS.
19. EXISTING TREES TO REMAIN ARE TO BE PROTECTED FROM DAMAGE. DO NOT TRENCH OR EXCAVATE WITHIN THE CRITICAL ROOT ZONE OF ANY TREE.
20. THE CONTRACTOR SHALL PROTECT ALL EXISTING LANDSCAPE IMPROVEMENTS DURING THE EXECUTION OF THIS WORK. NO SOIL SHALL BE PLACED DIRECTLY UPON EXISTING LANDSCAPING. ANY MATERIALS WHICH, IN THE OPINION OF THE LANDSCAPE ARCHITECT, ARE DAMAGED DURING THE EXECUTION OF THIS WORK SHALL BE IMMEDIATELY REPLACED BY THE IRRIGATION CONTRACTOR AT HIS EXPENSE.
21. LINE LOCATIONS AS INDICATED ON THE PLAN ARE SCHEMATIC. THE CONTRACTOR SHALL LOCATE ALL LINES IN SUCH A WAY AS TO CAUSE THE LEAST CONFLICT WITH THE LOCATION OF OTHER SITE AMENITIES. LINES MAY BE SHOWN OFFSET IN SOME HARDSCAPE AREAS AND OUTSIDE OF PROPERTY LINES FOR GRAPHIC CLARITY ONLY. ADJUST HEADS AND LINE LOCATIONS ON SITE TO ACCOMMODATE EXISTING JOB CONDITIONS AND ACHIEVE COMPLETE COVERAGE. PIPE LINES DRAWN SIDE BY SIDE MAY BE LAID IN THE SAME TRENCH, BUT THEY MUST MAINTAIN A MINIMUM OF 3" HORIZONTAL AND VERTICAL CLEARANCE FROM ALL OTHER PIPES.
22. ALL HEADS, VALVES, AND ACCESSORIES SHALL BE NELSON, HUNTER, RAIN BIRD, OR APPROVED EQUAL.
23. ALL CONTROL VALVES, GATE VALVES, AND QUICK COUPLERS SHALL BE INSTALLED IN LOCKING VALVE BOXES.
24. ALL VALVE BOXES ARE TO BE LOCATED IN PLANT BED OR NATURAL AREAS WHENEVER POSSIBLE.
25. ALL MAIN LINES AND SLEEVES SHALL BE SCHEDULE 40 PVC, ALL LATERAL LINES SHALL BE 125 PSI, STANDARD INSIDE DIMENSION RATIO (SIDR) 11.5 POLYETHYLENE PIPE.
26. POLYETHYLENE (PE) PIPE SHALL BE CONNECTED WITH BARBED FITTINGS AND CLAMPED WITH STAINLESS STEEL CLAMPS. THE CLAMP SHOULD BE PLACED OVER THE BARBED PORTION. FOR PIPES 1-1/2" AND LARGER, TWO STAINLESS STEEL CLAMPS PER BARB SHALL BE USED.
27. ALL MAIN LINES SHALL BE INSTALLED A MAXIMUM OF 2' FROM THE BACK OF CURB WHERE POSSIBLE. LATERAL LINES SHALL BE INSTALLED LIKEWISE WHERE POSSIBLE.
28. ALL LINES LOCATED BENEATH WALKS, CURBS, OR CONCRETE PAVING SHALL BE LOCATED WITHIN SLEEVES. ALL IRRIGATION SLEEVING TO BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL UNDER PAVING SLEEVING IS TO BE ACCESSIBLE AND FREE OF OBSTRUCTION. SLEEVE SIZES ARE TO BE ACCORDING TO THE ATTACHED SLEEVE SCHEDULE. ELECTRICAL WIRES FOR IRRIGATION VALVES AND IRRIGATION LINES ARE TO BE PLACED IN SEPARATE SLEEVES. SEE SLEEVING DETAIL.
29. UNSIZED PIPE BETWEEN TWO (2) GIVEN SIZES IS ASSUMED TO BE THE LARGER SIZE.
30. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR AND WITHIN 1/2" OF FINISHED GRADES. ALL SPRINKLER HEADS SHALL BE INSTALLED A MINIMUM OF EIGHTEEN INCHES FROM THE BACK OF CURBS AND A MINIMUM OF TWO INCHES FROM SIDEWALKS.
31. ALL IRRIGATION HEADS AT THE LOWER ELEVATIONS OF EACH CONTROL VALVE ZONE SHALL HAVE POP-UP BODIES WITH BUILT-IN CHECK VALVES TO PREVENT LOW HEAD DRAINAGE.
32. EACH CONTROL VALVE ZONE SHALL HAVE AN AUTOMATIC DRAIN VALVE AND A 12" x 24" GRAVEL SUMP INSTALLED AT THE LOWEST POINT WITHIN THE ZONE.
33. ALL RISERS SHALL BE INSTALLED 18" FROM ANY WALL AND A MINIMUM OF 12' FROM ANY SIDEWALK OR ROAD AND SHALL HAVE 2 COATS OF SEMI-FLAT BLACK ENAMEL PAINT.
34. THE CONTRACTOR SHALL ADJUST THE RADIUS AND ARC OF EACH HEAD TO PROVIDE 100% COVERAGE OF ALL PLANTED OR GRASSED ISLANDS, TO MINIMIZE "OVERTHROW", AND TO ELIMINATE DRY SPOTS.
35. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPPLY AND INSTALLATION OF ADDITIONAL HEADS TO COVER "DRY SPOTS" OR SLIGHT VARIATIONS FROM THE PLAN TO THE SITE. THE IRRIGATION CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT PRIOR TO MAKING ANY SUBSTITUTIONS, DELETIONS, OR ADDITIONS TO THIS PLAN FOR APPROVAL.
36. THROTTLE ALL IRRIGATION CONTROL VALVES AS REQUIRED TO PREVENT FOGGING.
37. FINAL ADJUSTMENTS TO IRRIGATION SYSTEM & SPRAY PATTERNS ARE TO BE MADE PRIOR TO FINAL INSPECTION.
38. ALL BACKFILLED TRENCHES SHALL BE THOROUGHLY COMPACTED. SEE SPECIFICATIONS FOR BACKFILL MATERIAL AND COMPACTION REQUIREMENTS.
39. THE CONTRACTOR SHALL SET THE IRRIGATION CONTROL SYSTEM TO OPERATE BETWEEN THE HOURS OF 2:00 am AND 6:00 am OR AS DIRECTED BY STORE MANAGER.
40. IRRIGATION CONTRACTOR SHALL OPTIMIZE WATER USAGE AND WATER CONSERVATION TIME ALLOTTED FOR INDIVIDUAL ZONE OPERATION SHALL ALLOW FOR WATER PENETRATION TO A MINIMUM DEPTH OF 8" IN SHRUB BEDS AND 6" IN TURF AREAS.
41. IRRIGATION CONTRACTOR SHALL REVIEW WINTERIZATION PROCEDURES FOR IRRIGATION SYSTEM WITH THE OWNER'S REPRESENTATIVE.
42. THE CONTRACTOR SHALL BE RESPONSIBLE AT TIME OF COMPLETION FOR PROVIDING "AS BUILT" DRAWINGS TO INCLUDE THE EXACT LOCATIONS OF ALL CONTROL VALVES (AUTOMATIC AND MANUAL), QUICK COUPLER VALVES, BACKFLOW DEVICES, AND CONTROLLER, WITH TRIANGULATED MEASUREMENTS TO EACH; AS WELL AS ANY DEVIATIONS IN LOCATION OF PIPING AND HEADS REPRESENTED AS REPRESENTED BY THE CONTRACT DOCUMENTS.
43. ALL WORK, ADJUSTMENTS, AND INSPECTIONS SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT.
44. REFER TO SITEWORK SPECIFICATIONS FOR ADDITIONAL INFORMATION NEEDED FOR IMPLEMENTATION OF IRRIGATION PLANS.

IRRIGATION NOTES

NOTE: NO VALVES SHALL BE LOCATED IN PAVED SURFACES

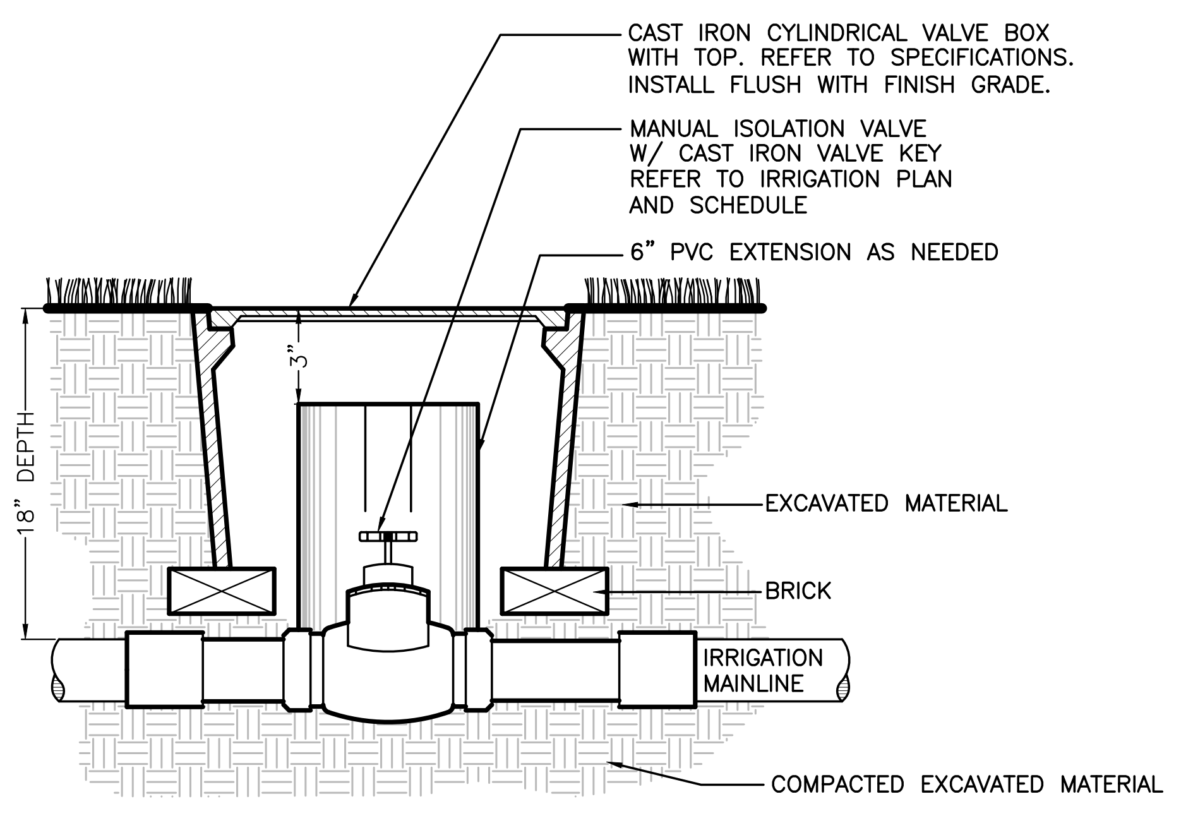
ALL PIPE MATERIALS AND DEPTHS SHALL BE INSTALLED AS SHOWN UNLESS OTHERWISE SPECIFIED BY LOCAL CODES.



*CONNECTION PROVIDED BY GENERAL CONTRACTOR.

TAP AT WATER MAIN & IRR HOOKUP

NTS



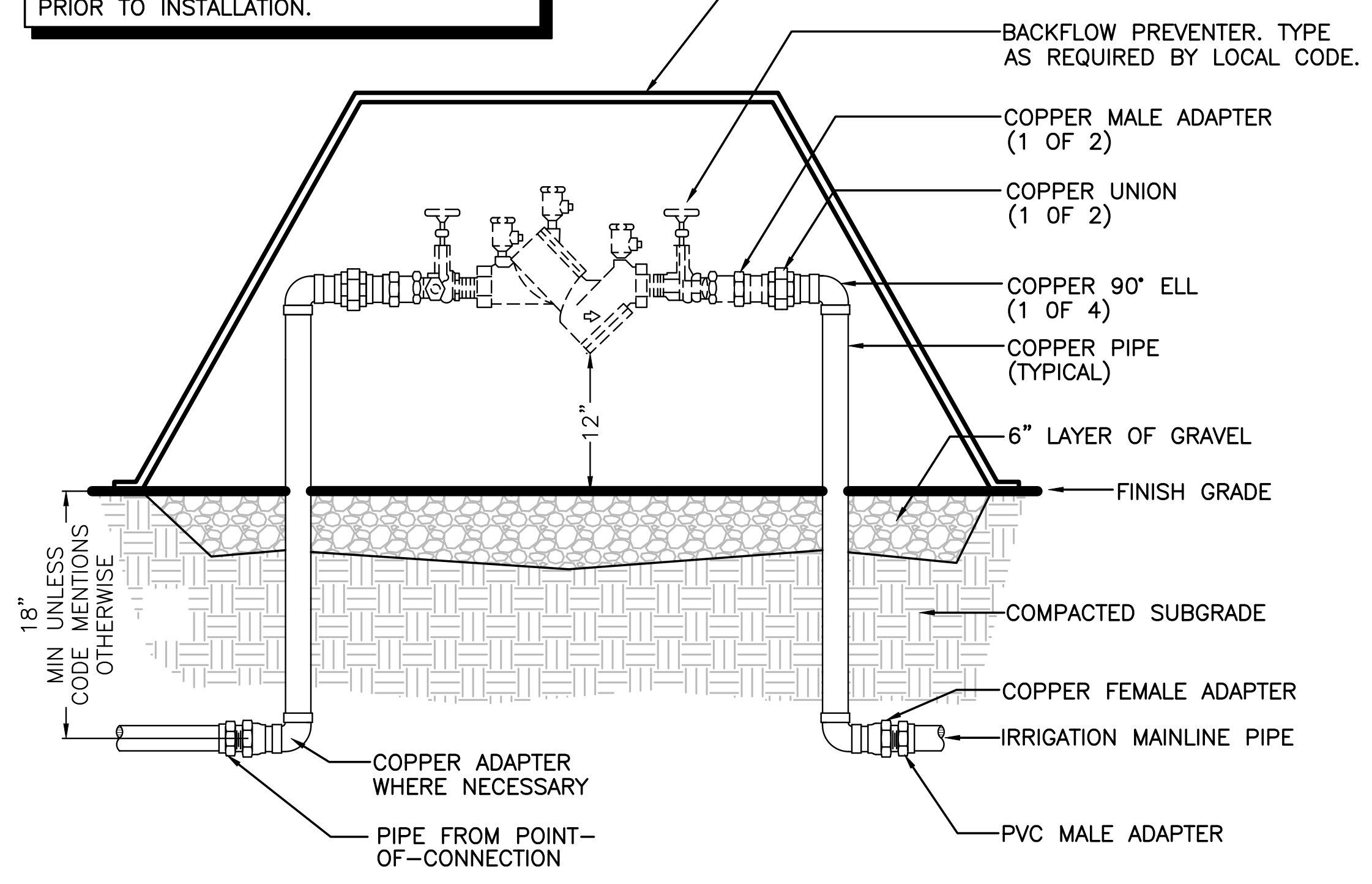
VALVE SCHEDULE:

SMALLER THAN 3":	FULL PORT BRASS BALL VALVE WITH 600 WOG RATING.
3" OR LARGER:	CAST IRON AND BRONZE MECHANICAL JOINT VALVE.

MANUAL ISOLATION VALVE

NTS

NOTE: IRRIGATION CONTRACTOR SHALL INSTALL BACKFLOW PREVENTER AS REQUIRED BY LOCAL CODES AND HEALTH DEPARTMENT. VERIFY LOCAL REQUIREMENTS PRIOR TO INSTALLATION.



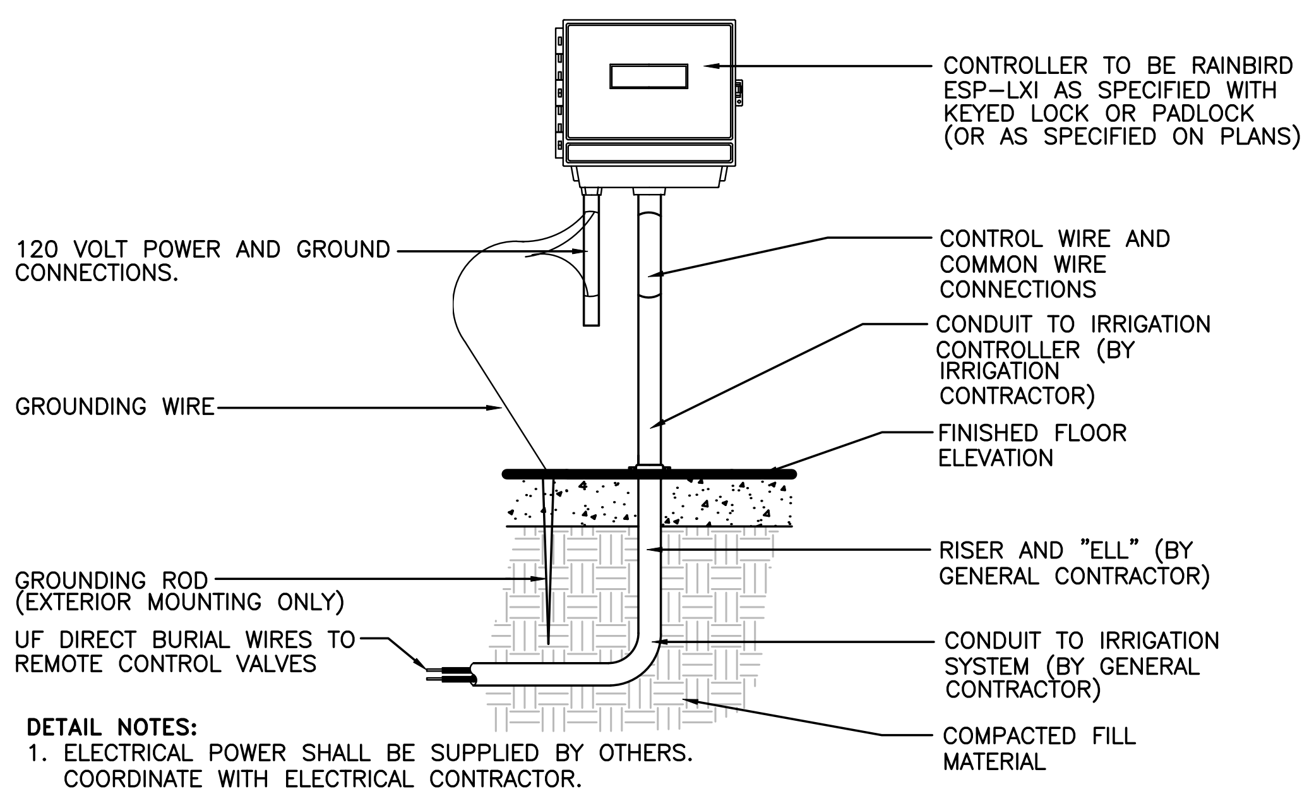
NOTE: IF NO CODE IS IDENTIFIED, BACKFLOW PREVENTER SHALL BE RP BFP ASSE #1013. WATTS, FEBCO, WILKINS APPROVED MANUFACTURERS.

NOTE: ALL PIPE LOCATED ABOVE GRADE SHALL BE COPPER.
-MAKE NECESSARY CONNECTIONS BELOW GRADE TO ADAPT

BACKFLOW PREVENTER

NTS

NOTE: CONTROLLER SHALL BE PROGRAMMED TO BE OPERATIONAL BETWEEN THE HOURS OF 2:00AM AND 6:00AM OR AS DIRECTED BY STORE MANAGER



DETAIL NOTES:

1. ELECTRICAL POWER SHALL BE SUPPLIED BY OTHERS. COORDINATE WITH ELECTRICAL CONTRACTOR.
2. ALL WIRING SHALL BE INSTALLED PER LOCAL CODES.
3. CONTROLLER SHALL BE GROUNDED AS PER LOCAL CODES. GROUNDING ROD IS ONLY REQUIRED FOR EXTERIOR APPLICATIONS.
4. SEE ELECTRICAL PLANS FOR EXACT LOCATION OF CONTROLLER.
5. CONTROLLER SHALL BE MOUNTED APPROXIMATELY 5'-0" ABOVE FINISHED FLOOR ELEVATION.

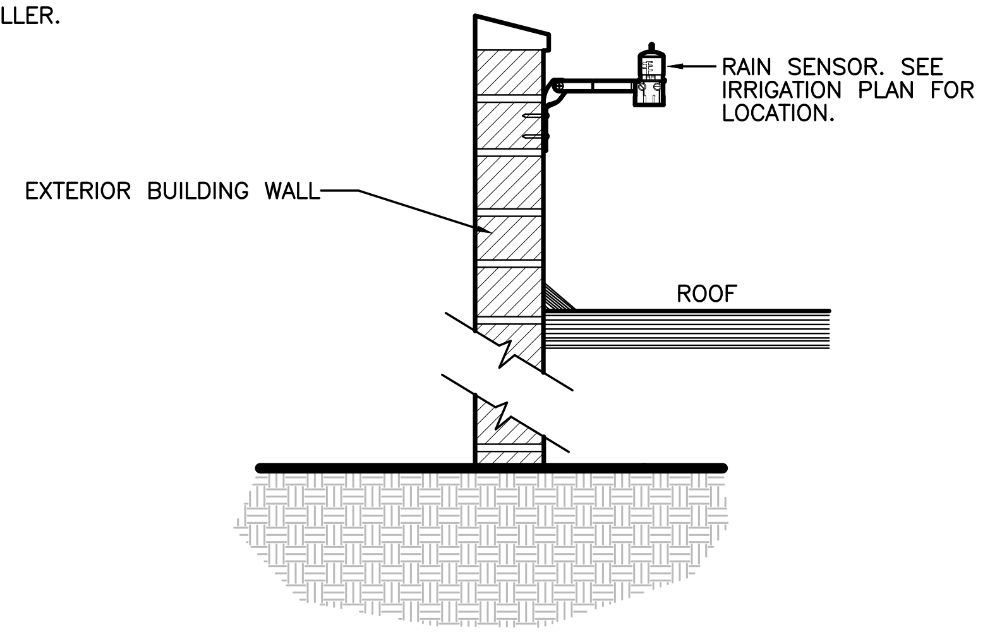
WALL MOUNTED CONTROLLER

NTS

DETAIL NOTES:

1. HUNTER INDUSTRIES WIRELESS MINI-CLIK -WRC OR WRFC WIRELESS RAIN/FREEZE-CLIK.
2. IRRIGATION CONTRACTOR TO INSTALL DEVICE WHERE RAIN CAN FALL INTO CUP.
3. RAINFALL TRIGGER TO BE SET TO 1/2".
4. RAIN SENSOR TO BE LOCATED WITHIN 150' OF CONTROLLER.

*NOTE: LOCATE WHERE RAIN CAN FALL DIRECTLY INTO DEVICE. WIRE AND CONNECTIONS BY IRRIGATION CONTRACTOR.



A CONDUIT IS NOT REQUIRED FOR THIS DEVICE.

NOTE:
MOUNT MINI-CLIK ON ANY SURFACE WHERE IT WILL BE EXPOSED TO UNOBSTRUCTED RAINFALL, BUT NOT IN THE PATH OF SPRINKLER SPRAY.

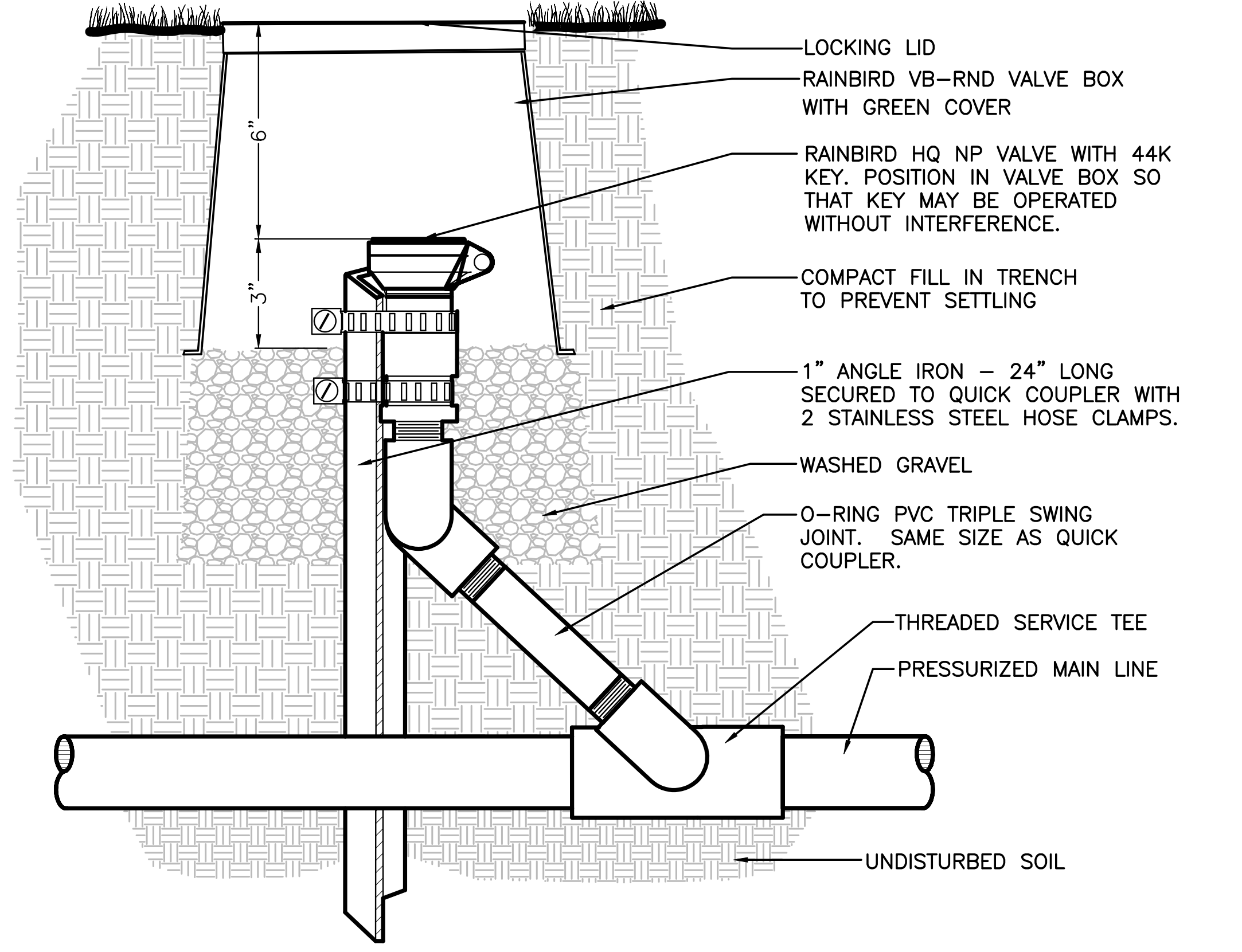
HUNTER: WIRELESS MINI-CLIK
AUTOMATIC RAIN SHUT-OFF DEVICE

NTS

VALVE BOX SCHEDULE:

SINGLE VALVE-	RAINBIRD VB-RND
TWO VALVES-	RAINBIRD VB-STD

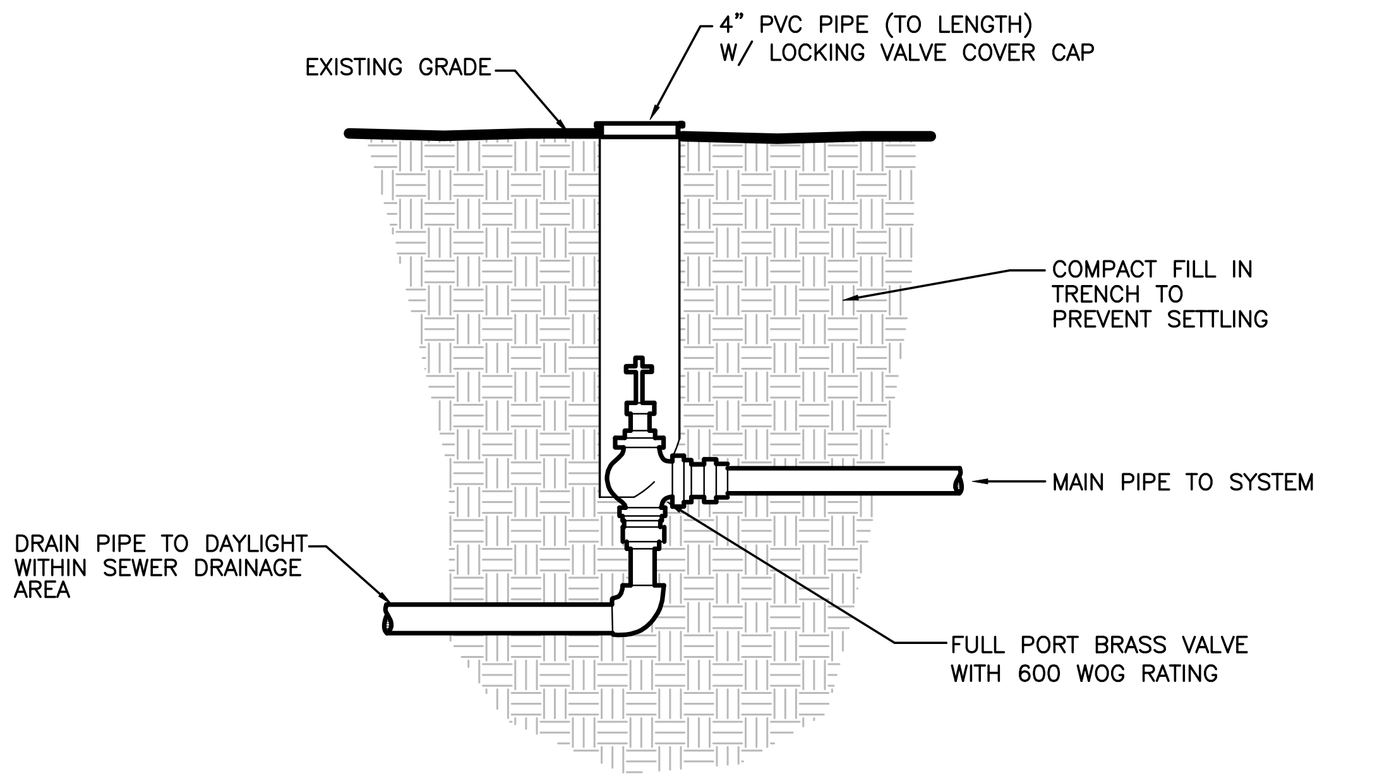
NOTE: KEY FOR QUICK COUPLER SHALL HAVE 3/4" MALE TOP PIPE THREADS FOR HOSE CONNECTIONS.
* ALL THREADED FITTINGS SHALL BE SEALED WITH TEFLON TAPE.



QUICK COUPLER VALVE

NTS

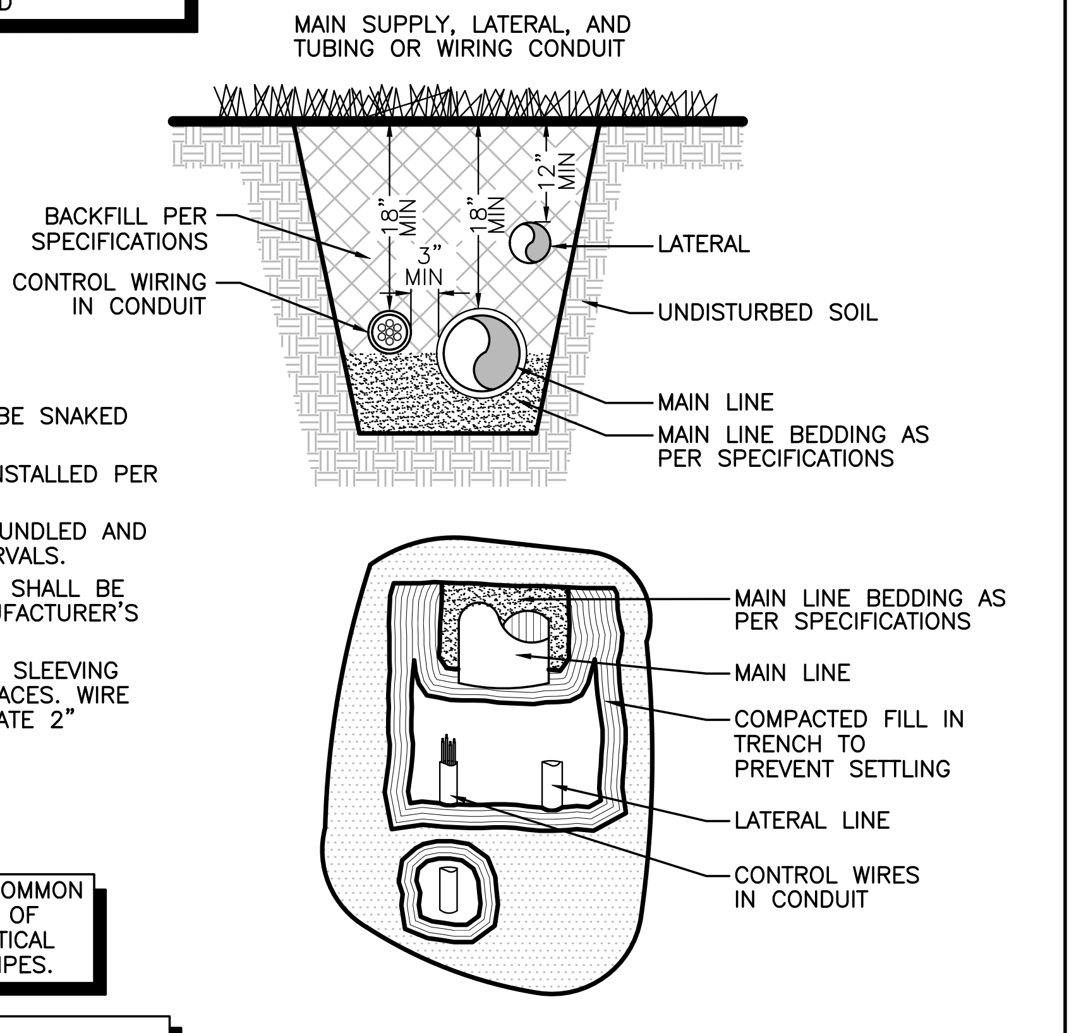
NOTE: NO VALVES SHALL BE LOCATED IN PAVED SURFACES.



MANUAL DRAIN VALVE

NTS

NOTE: CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT FOR REQUIRED INSPECTION OF MAINLINE PRIOR TO TRENCHES BEING BACKFILLED



DETAIL NOTES:

1. ALL PVC PIPING SHALL BE SNAKED IN TRENCHES.
2. ALL WIRING SHALL BE INSTALLED PER LOCAL CODES.
3. ALL WIRING SHALL BE BUNDLED AND AND TAPED AT 10' INTERVALS.
4. ALL MAIN SUPPLY LINES SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS.
5. PROVIDE PIPE AND WIRE SLEEVING UNDER ALL PAVED SURFACES. WIRE SHALL BE WITHIN SEPARATE 2" ELECTRICAL CHASE.

NOTE: MULTIPLE PIPES IN COMMON TRENCH SHALL MAINTAIN 3" OF BOTH HORIZONTAL AND VERTICAL CLEARANCE BETWEEN ALL PIPES.

A SEPARATE CONDUIT IS REQUIRED FOR CONTROL AND POWER SUPPLY WIRING.

TYPICAL TRENCHING

NTS

SITE NUMBER:	13006
BASE MODEL:	2018 PROTOTYPE
ASSET TYPE:	COMPANY
CLASSIFICATION:	NEW
OWNER:	COMPANY
BASE VERSION:	2018
UPGRADE CLASSIFICATION:	COMPANY NEW BUILD
PROJECT YEAR:	2018
FURNITURE PACKAGE:	XXX
DESIGN BULLETINS:	–

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AR CORPORATION #397

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Know what's **below.**
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3 business days
prior to excavation:

PROJECT TYPE:	2018 CIVIL PROTOTYPE

4204 E. JOHNSON AVE.
JONESBORO, AR 72401

REV.	DATE	DESCRIPTION

ISSUE DATE:	3/1/19
PROJECT NUMBER:	N/A
DRAWN BY:	TGH
CHECKED BY:	DLC

CHARLES R. WALKER
3/12/19

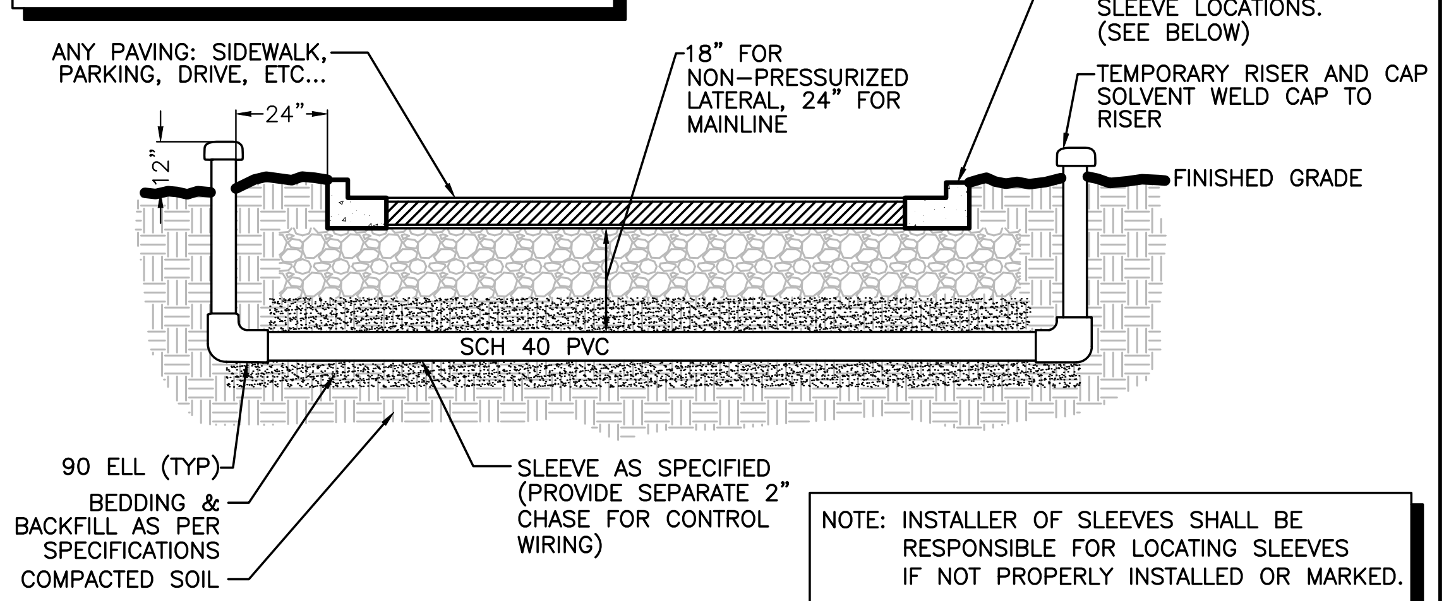
SHEET NAME

IRRIGATION DETAILS

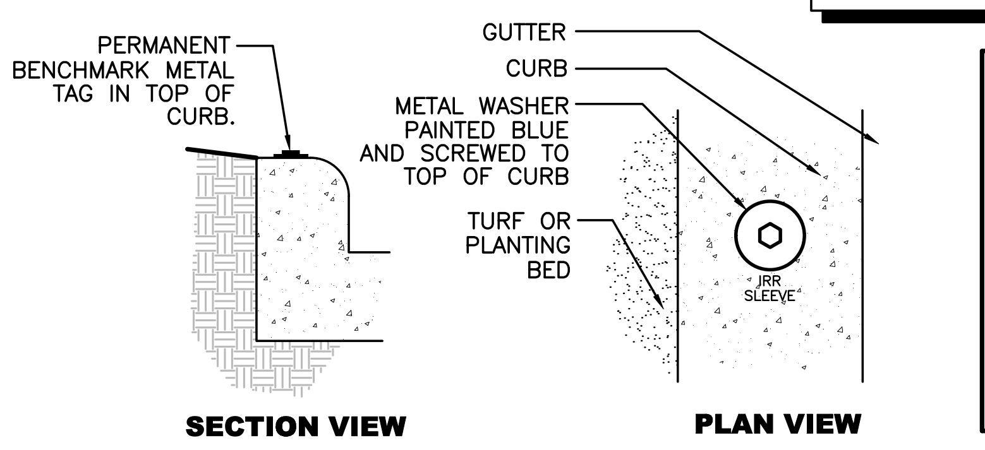
SHEET NUMBER

L2.1

ANY IRRIGATION PIPING LOCATED UNDERNEATH PAVED AREAS SHALL BE LOCATED WITHIN PVC SLEEVES



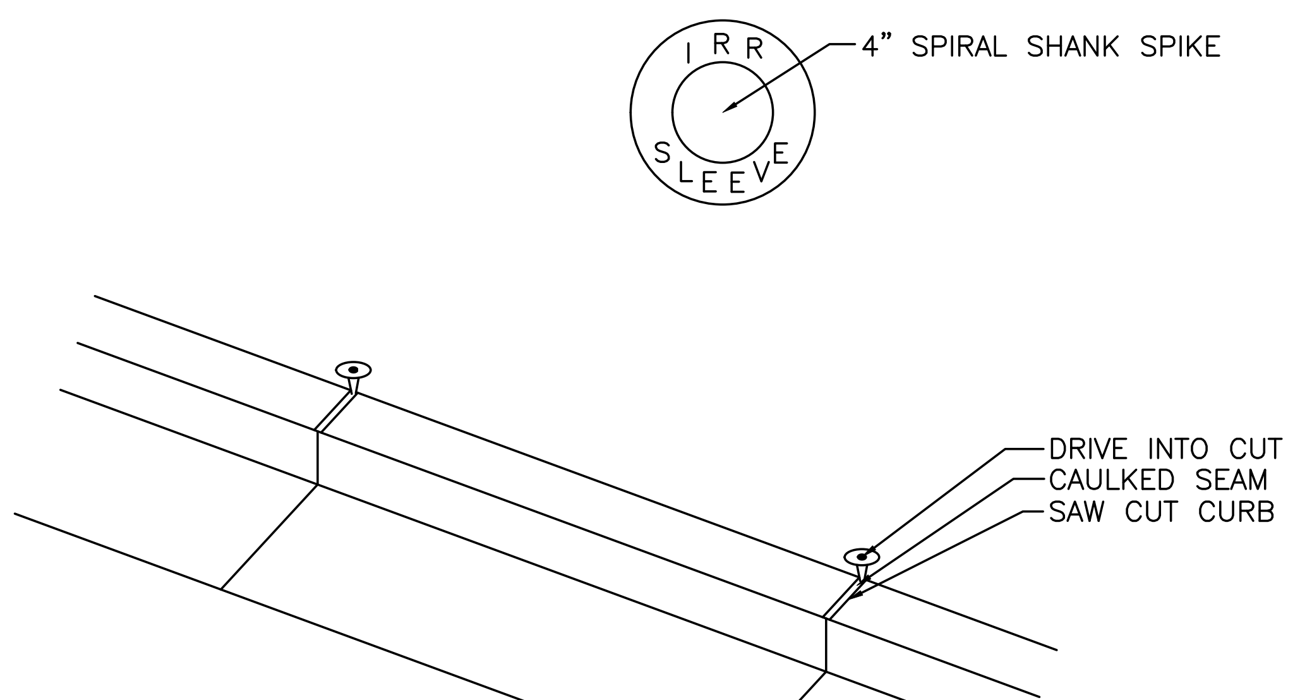
NOTE: INSTALLER OF SLEEVES SHALL BE RESPONSIBLE FOR LOCATING SLEEVES IF NOT PROPERLY INSTALLED OR MARKED.



SLEEVE SIZE SCHEDULE	
PIPE SIZE	SLEEVE SIZE
3/4"	4"
1"	4"
1-1/2"	4"
2"	4"
2-1/2"	4"
3"	6"
NO PIPE INDICATED	6"

PVC SLEEVE UNDER PAVING

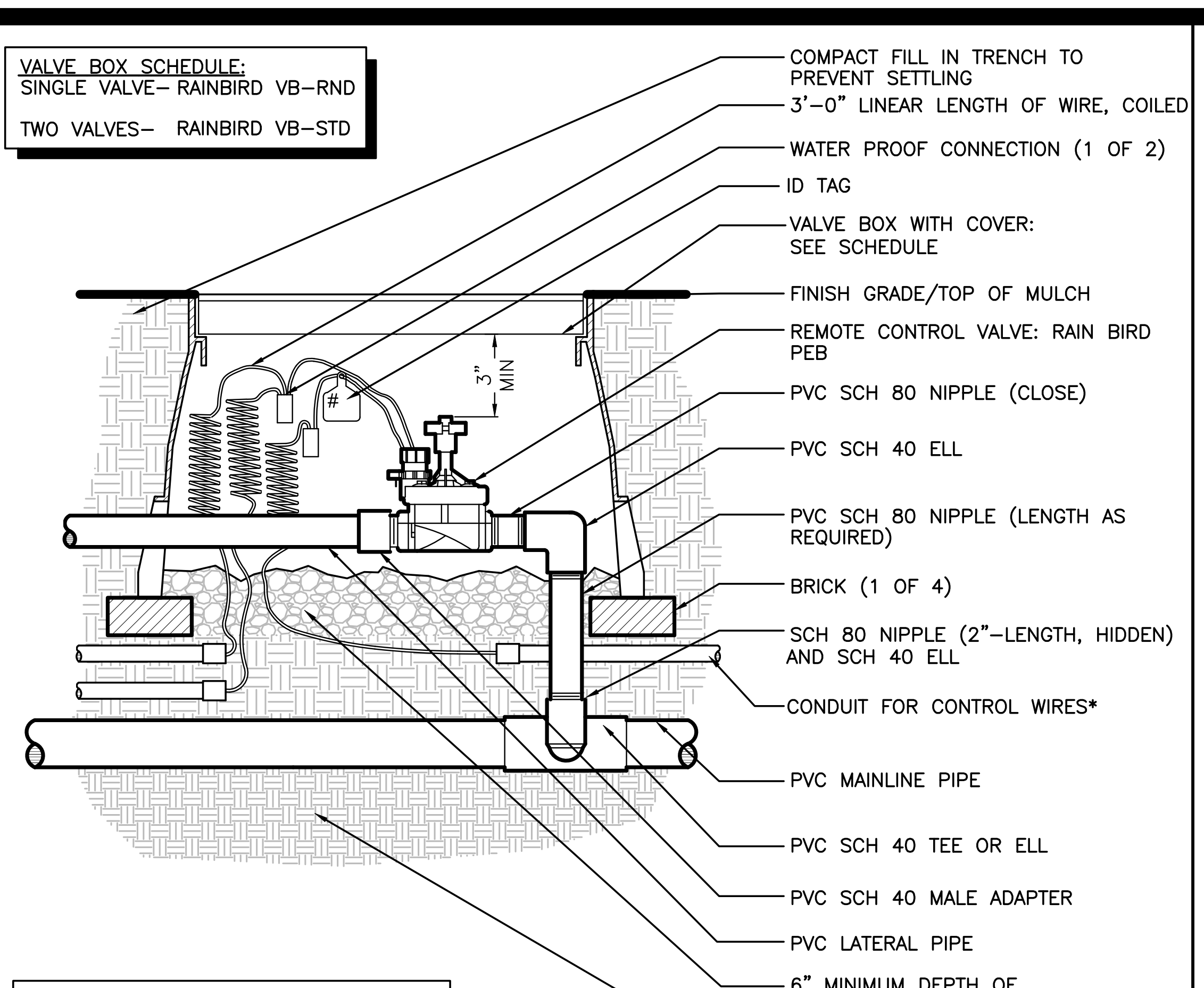
NTS



NTS

PERMANENT MARKERS

VALVE BOX SCHEDULE:
SINGLE VALVE– RAINBIRD VB–RND
TWO VALVES– RAINBIRD VB–STD



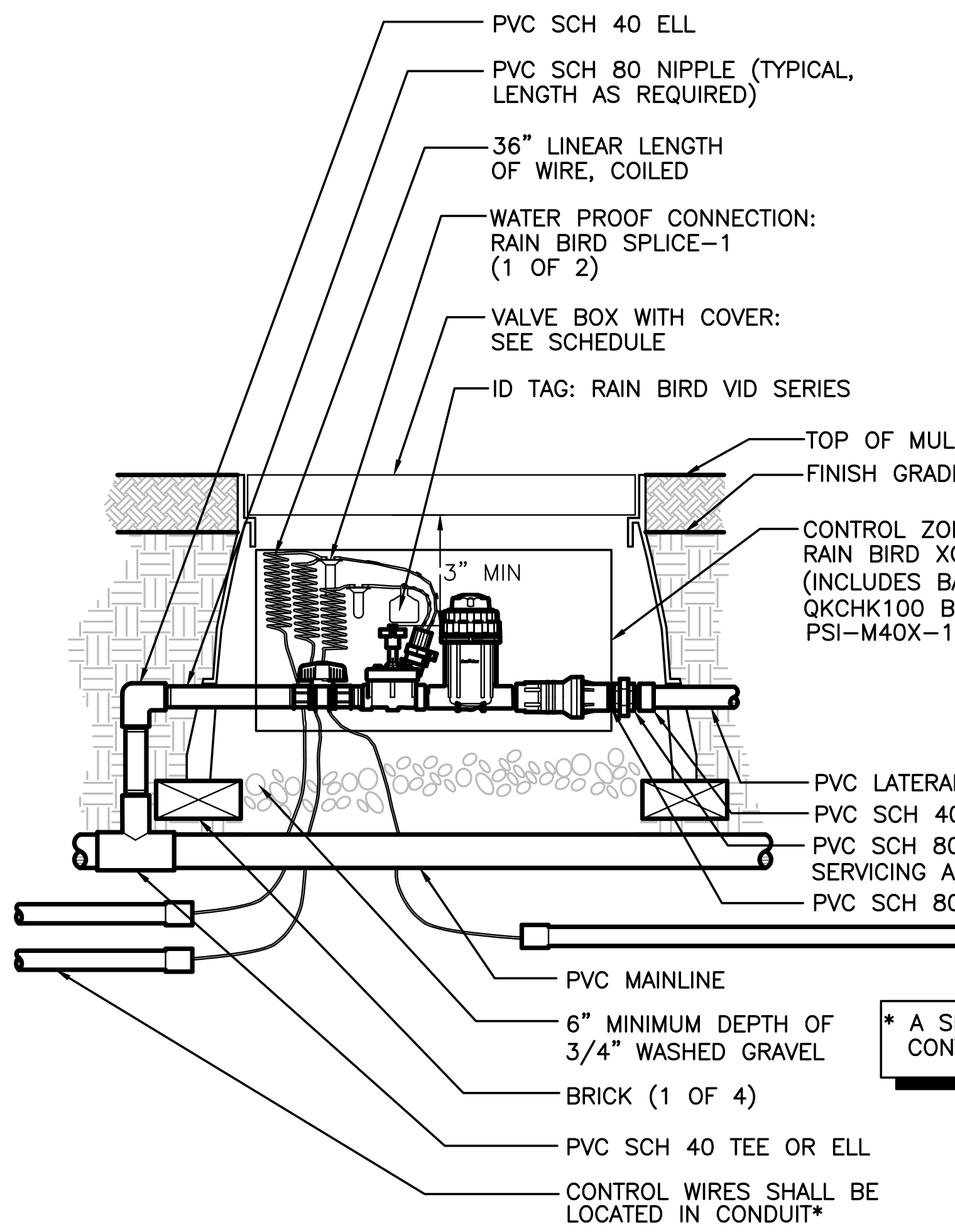
* A SEPARATE CONDUIT IS REQUIRED FOR CONTROL AND POWER SUPPLY WIRING.

ELECTRICAL VALVE

NTS

VALVE BOX SCHEDULE:
SINGLE VALVE– RAINBIRD VB–RND
TWO VALVES– RAINBIRD VB–STD

TO BE USED FOR ZONES WITH A FLOW RATE OF: 3.0 – 15.0 GPM

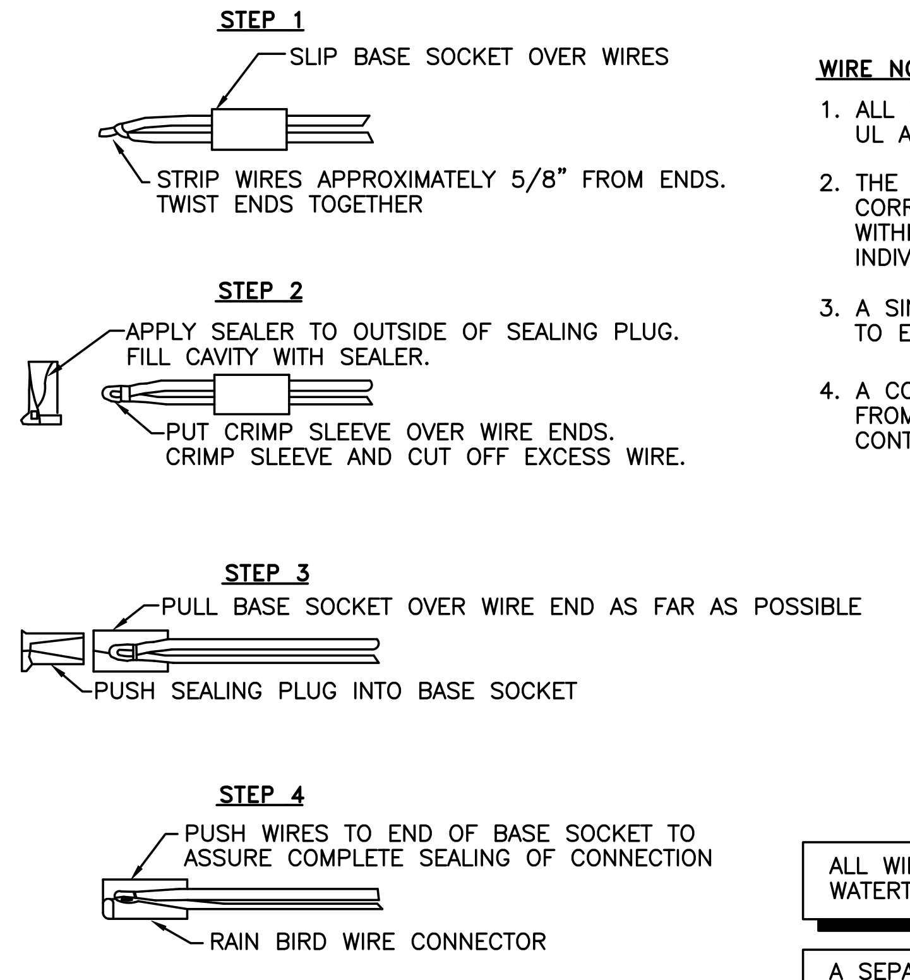


* A SEPARATE CONDUIT IS REQUIRED FOR CONTROL AND POWER SUPPLY WIRING.

1" MEDIUM FLOW CONTROL ZONE KIT

NTS

WIRE CONNECTION PROCESS



WIRE NOTES:

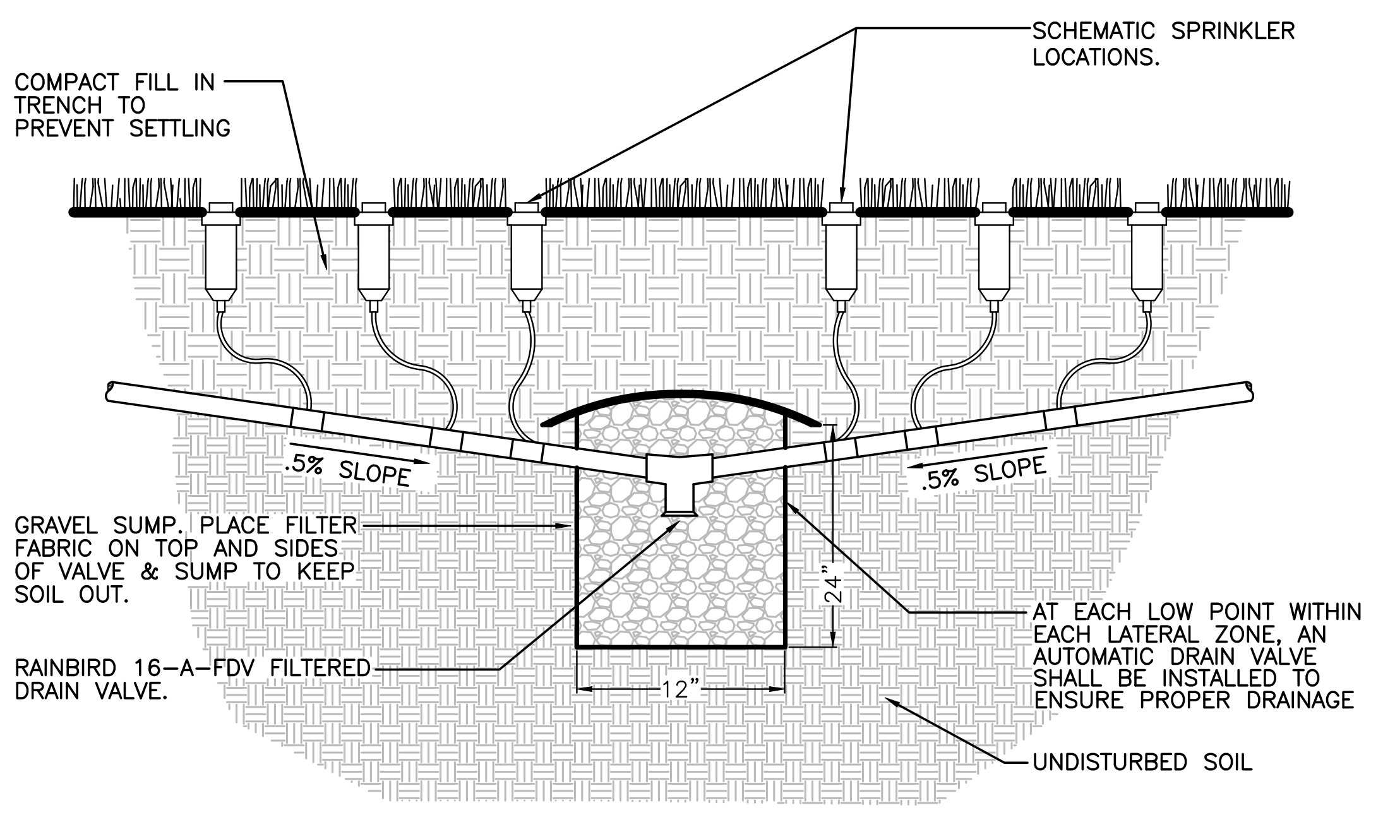
1. ALL WIRES TO BE #14 COPPER WIRE UL APPROVED FOR DIRECT BURIAL.
2. THE WIRE FOR EACH ZONE IS TO BE CORRECTLY COLOR–COORDINATED WITHIN THE CONTROLLER FOR THE INDIVIDUAL CONTROL VALVES.
3. A SINGLE WIRE IS TO BE CONNECTED TO EACH CONTROL VALVE.
4. A COMMON NEUTRAL WIRE IS TO RUN FROM THE CONTROLLER TO EACH CONTROL VALVE.

ALL WIRE CONNECTORS TO BE 3M DBY WATERTIGHT CONNECTORS.

A SEPARATE CONDUIT IS REQUIRED FOR CONTROL AND POWER SUPPLY WIRING.

WIRE CONNECTIONS

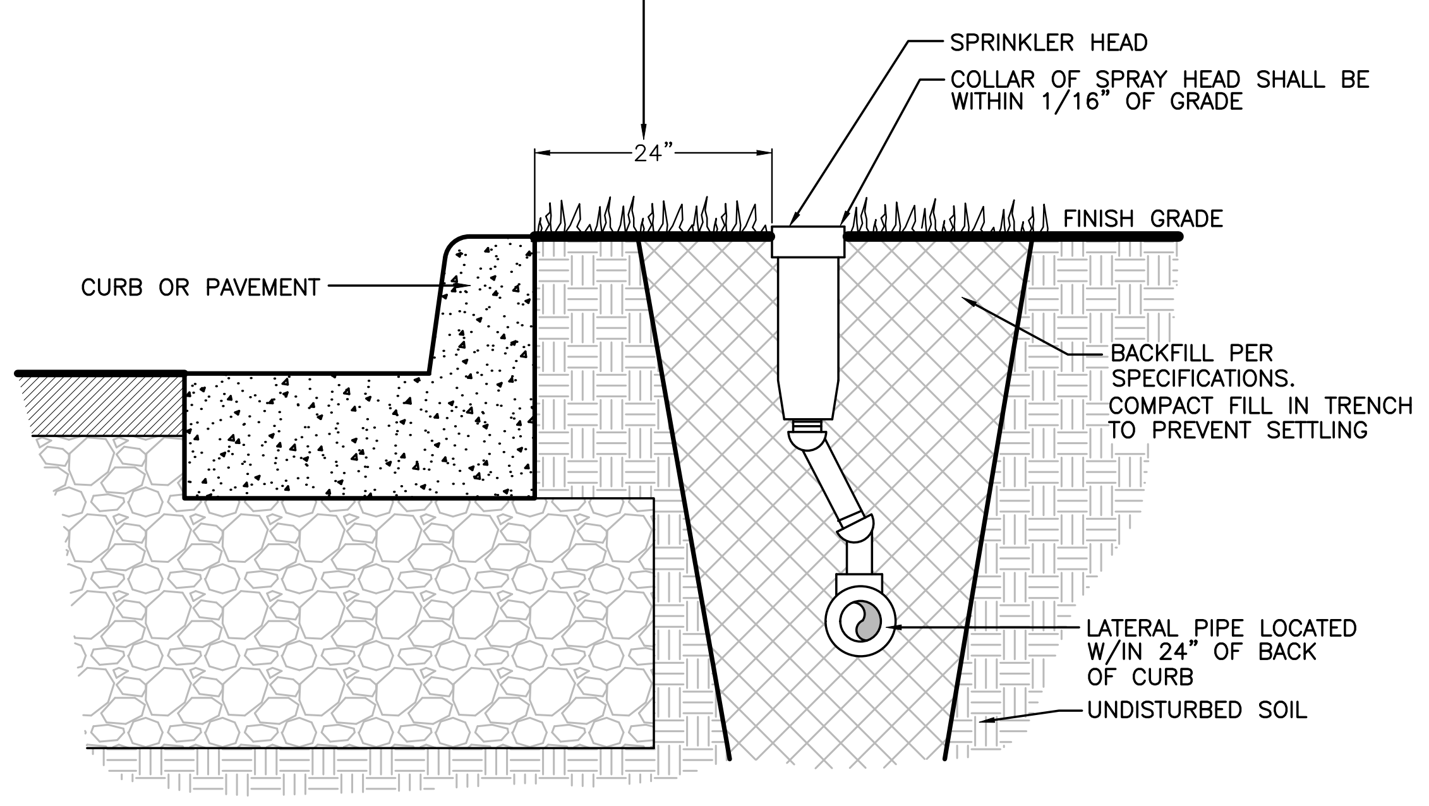
NTS



AUTOMATIC DRAIN VALVE

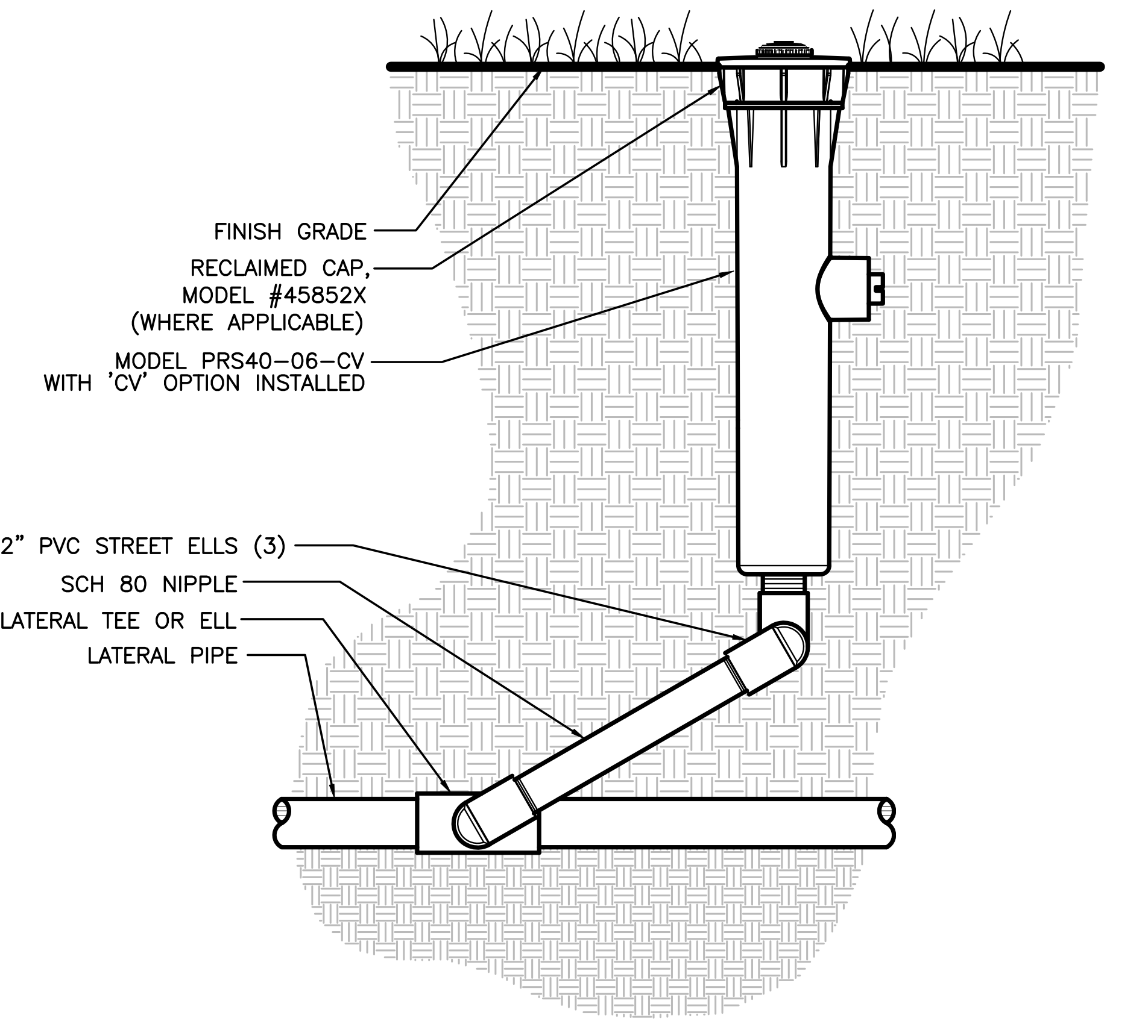
NTS

DISTANCE BEHIND CURB SHALL BE ADJUSTED IN AREAS WITH GUIDERAILS OR HEAD IN PARKING SO THAT THE RAIL AND SUPPORTS DO NOT OBSTRUCT THE SPRAY OF THE IRRIGATION HEADS



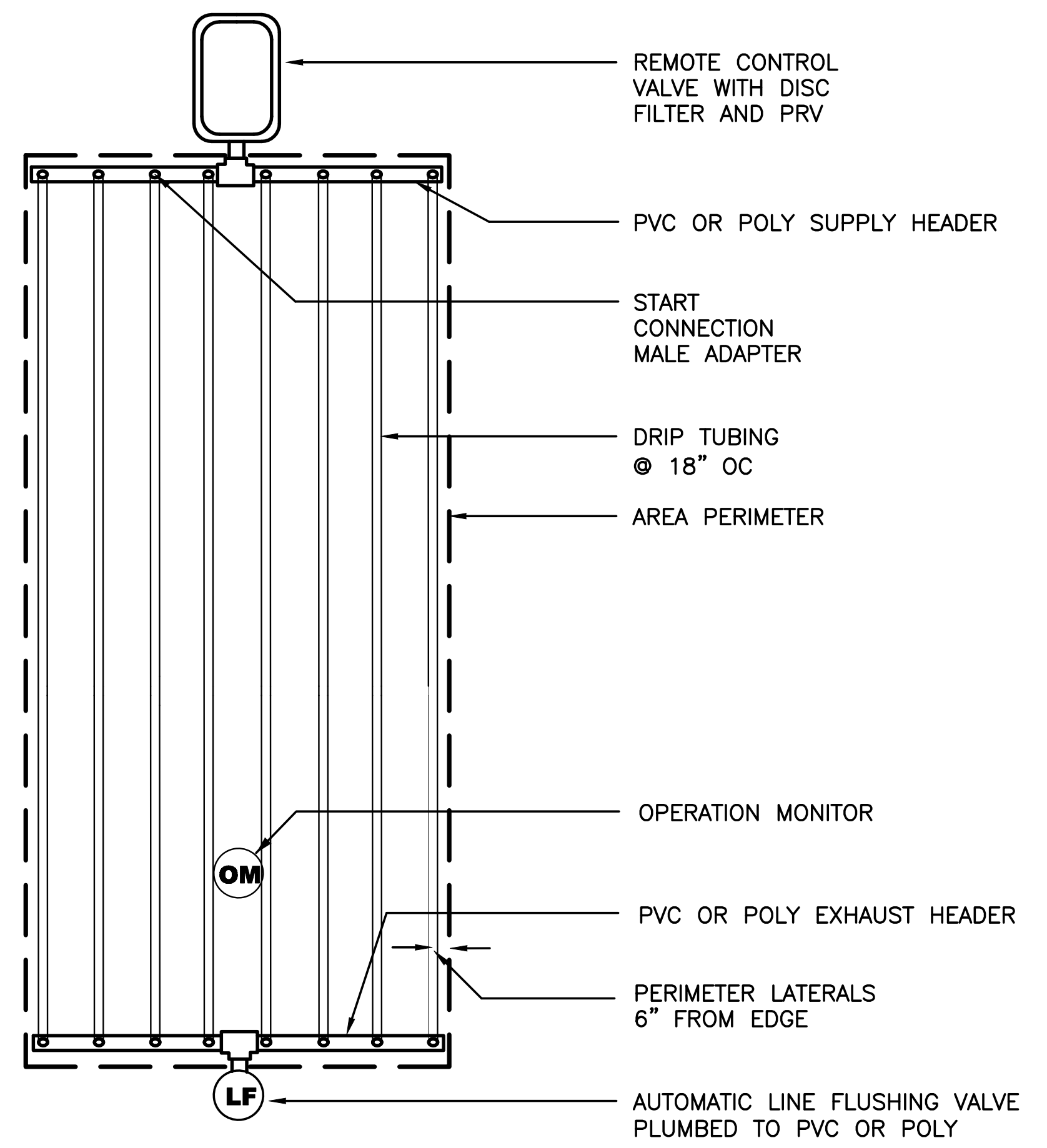
SPRINKLER TO CURB

NTS



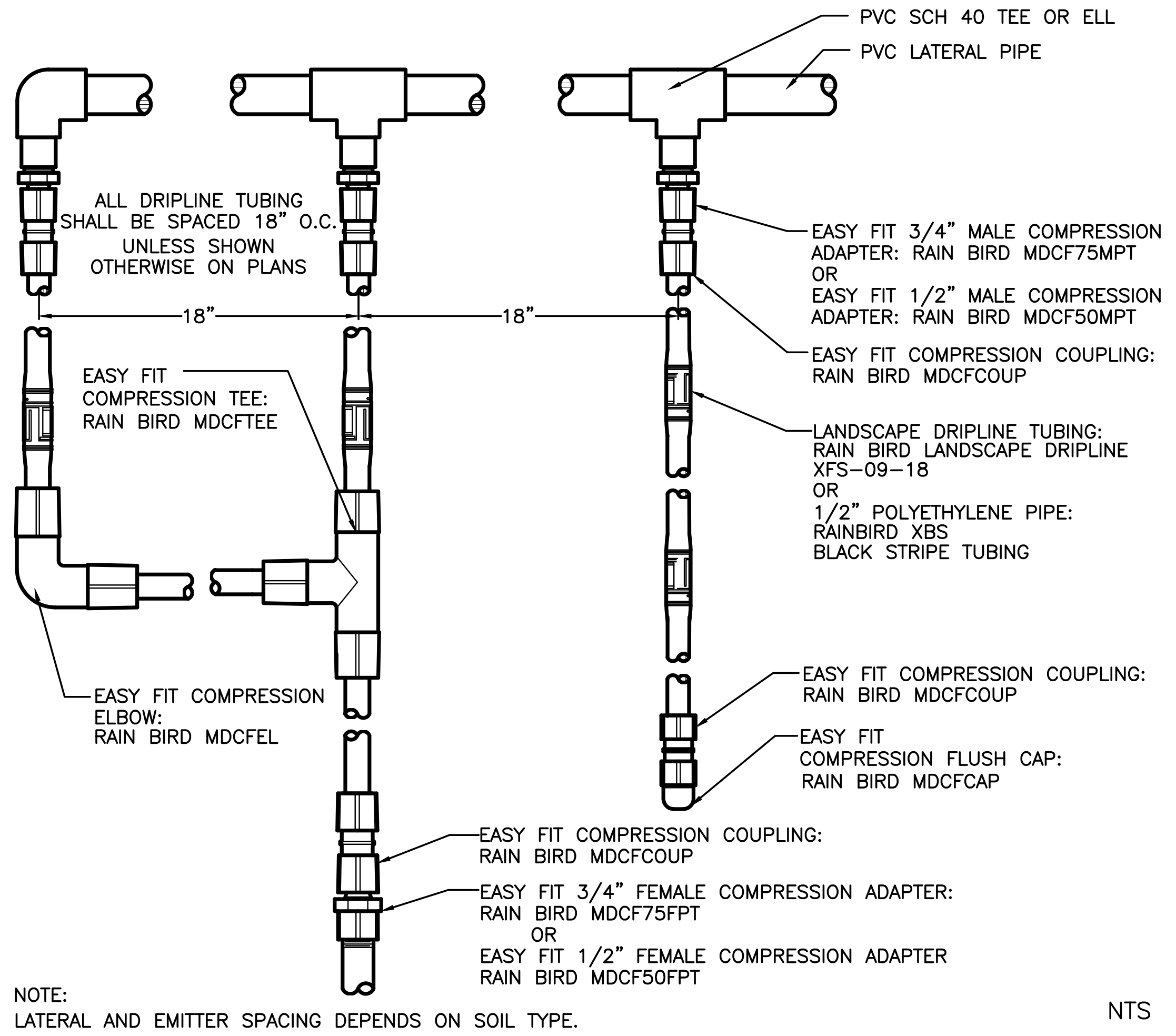
HUNTER MP ROTATOR SPRINKLER – 6" POP–UP

NTS



LANDSCAPE DRIPLINE HEADER LAYOUT

NTS

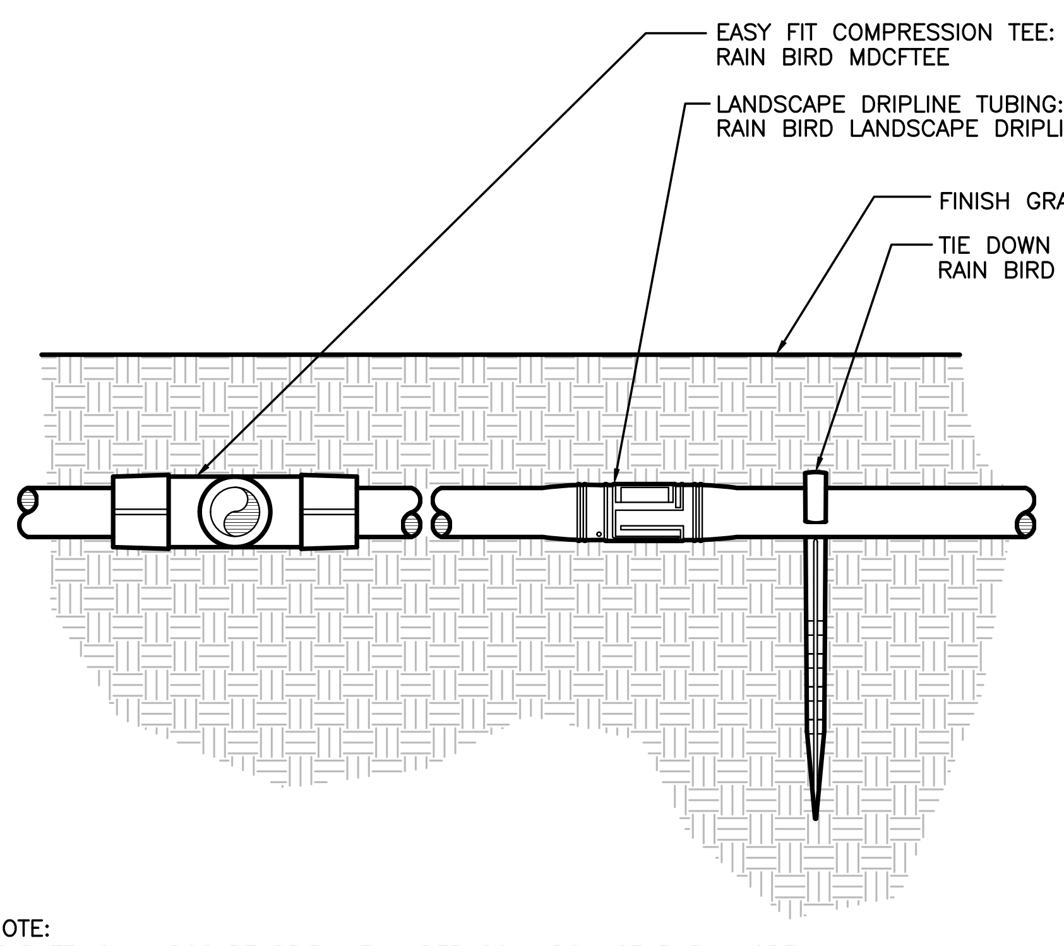


NOTE:
LATERAL AND EMITTER SPACING DEPENDS ON SOIL TYPE.

NTS

LANDSCAPE DRIPLINE LATERALS: FITTINGS & ADAPTERS (POTABLE)

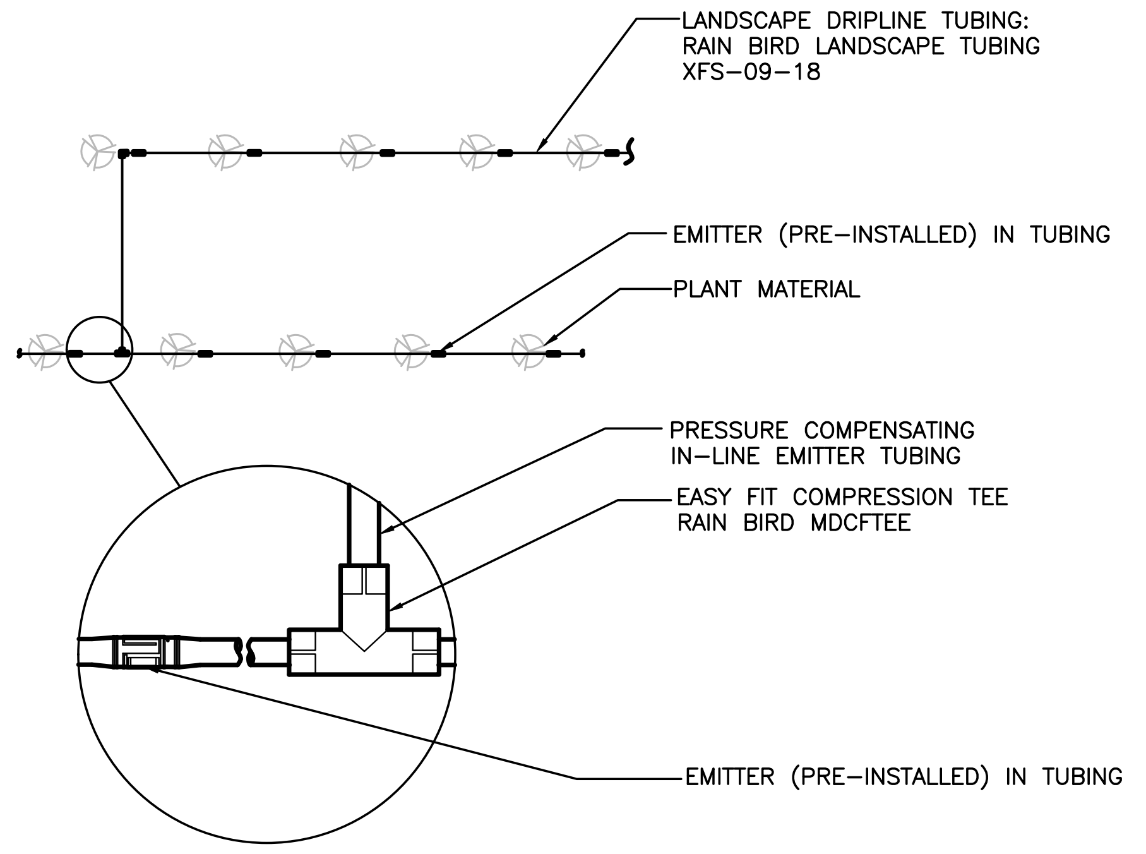
INSTALLATION PROCEDURES:
AFTER SHRUBS HAVE BEEN INSTALLED, LAYOUT DRIPLINE NETWORK PARALLEL TO SLOPE. DIG A SMALL FURROW 2" IN DEPTH ALONG PIPING LAYOUT. LAY DRIPLINE IN FURROW, PARALLEL TO SLOPE STAKE TUBING AND COVER WITH PLANTING MIX. INSTALL WEED BARRIER FABRIC AND 4" OF SHREDDED HARDWOOD MULCH.



NOTE:
IF PUTTING LANDSCAPE DRIPLINE UNDER SOIL, DO NOT BURY MORE THAN 2" BELOW GRADE AND INCLUDE AIR RELIEF VALVE.

DRIPLINE 2" BELOW GRADE (POTABLE)

NTS



DRIPLINE CONNECTIONS (POTABLE)

NTS

SITE NUMBER:	13006
BASE MODEL:	2018 PROTOTYPE
ASSET TYPE:	COMPANY
CLASSIFICATION:	NEW
OWNER:	COMPANY
BASE VERSION:	2018
UPGRADE CLASSIFICATION:	COMPANY NEW BUILD
PROJECT YEAR:	2018
FURNITURE PACKAGE:	XXX
DESIGN BULLETINS:	–

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PROJECT TYPE: 2018 CIVIL PROTOTYPE

Wendy's
4204 E. JOHNSON AVE.
JONESBORO, AR 72401

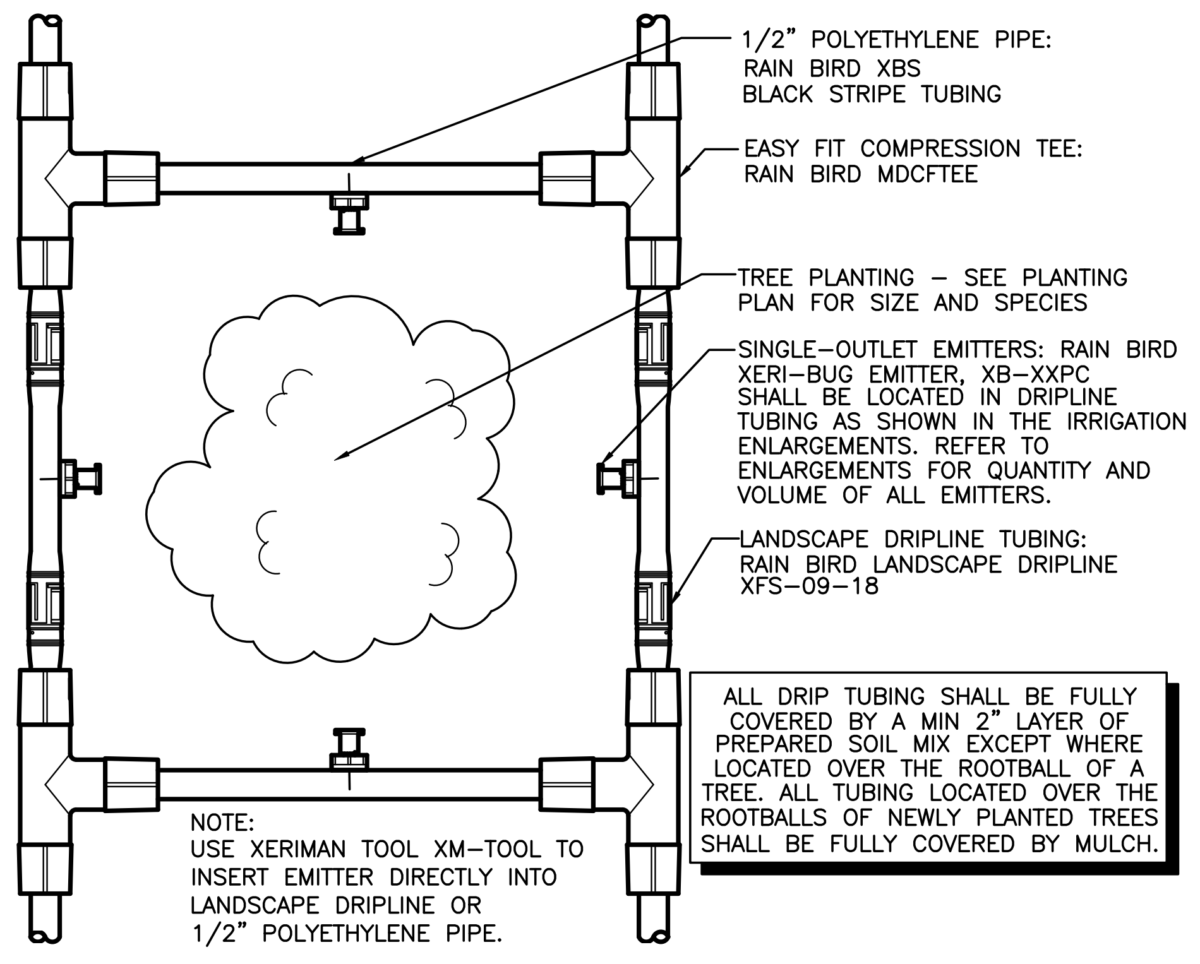
REV.	DATE	DESCRIPTION

ISSUE DATE:	3/1/19
PROJECT NUMBER:	N/A
DRAWN BY:	TGH
CHECKED BY:	DLC

LICENSED LANDSCAPE ARCHITECT
CHARLES R. WALKER
STATE OF ARKANSAS
3/12/19

SHEET NAME
IRRIGATION DETAILS

SHEET NUMBER
L2.2



ALL DRIP TUBING SHALL BE FULLY COVERED BY A MIN 2" LAYER OF PREPARED SOIL MIX EXCEPT WHERE LOCATED OVER THE ROOTBALL OF A TREE. ALL TUBING LOCATED OVER THE ROOTBALLS OF NEWLY PLANTED TREES SHALL BE FULLY COVERED BY MULCH.

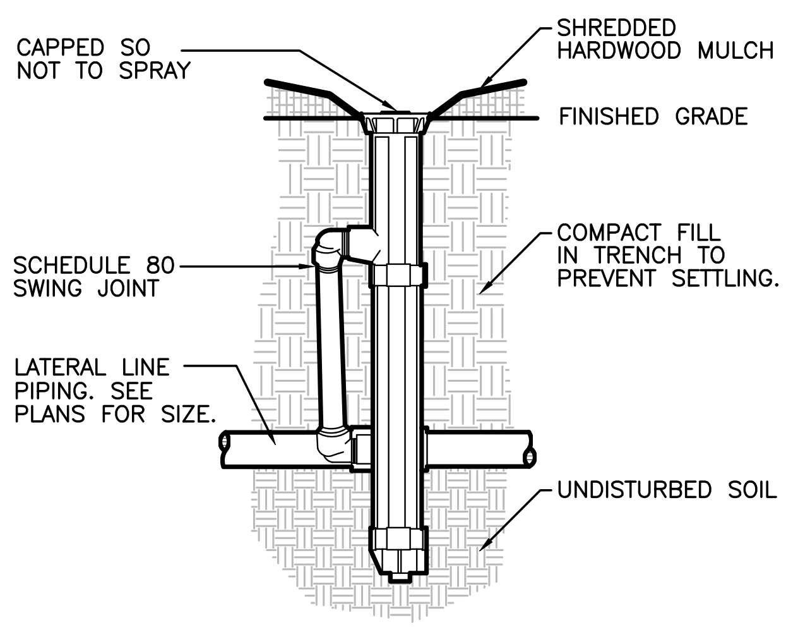
NOTE:
USE XERIMAN TOOL XM–TOOL TO INSERT EMITTER DIRECTLY INTO LANDSCAPE DRIPLINE OR 1/2" POLYETHYLENE PIPE.

DRIPLINE WITH SUPPLEMENTAL EMITTERS

NTS

ALL 12" POP–UP SPRAY HEADS TO BE USED AS ZONE MARKERS SHALL BE CAPPED AND SHALL NOT SPRAY. HEAD TO SERVE AS A VISUAL MARKER TO IDENTIFY THE END OF ZONE AND SHOW THAT THE VALVE IS OPERATIONAL

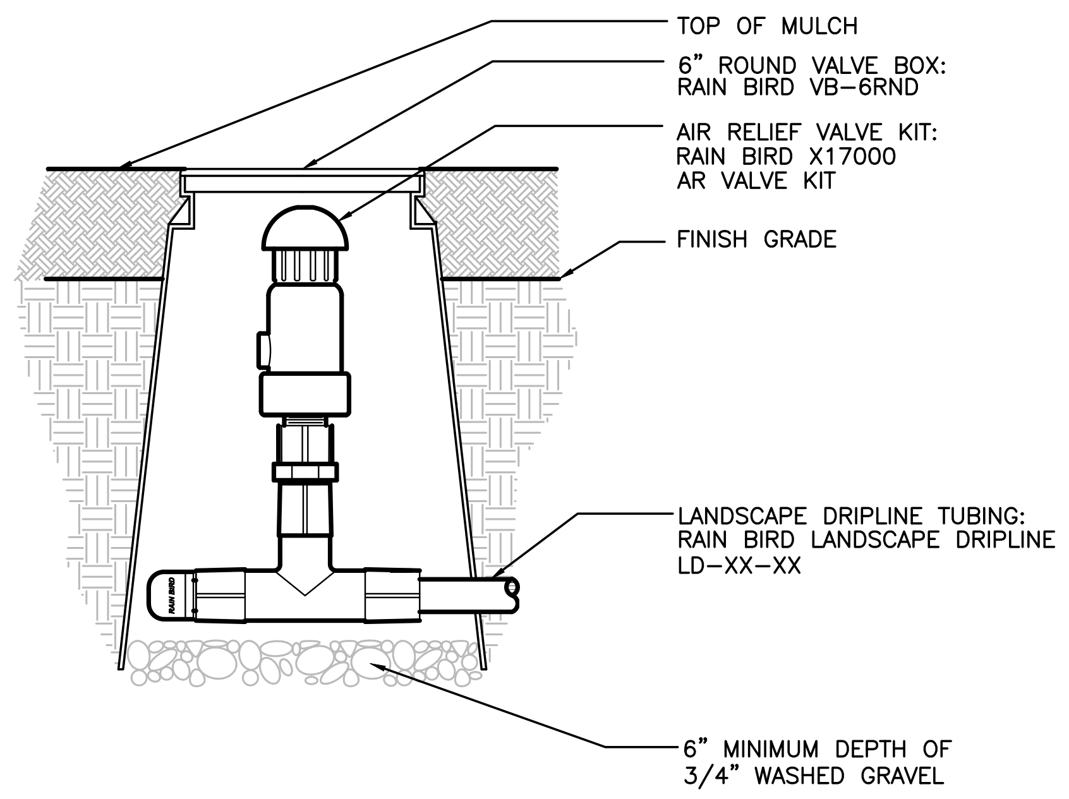
12" POP–UP SPRAY HEAD IN SHRUB BEDS



12" POP–UP SPARY HEAD – VALVE OPERATION MARKER

NTS

AIR RELIEF VALVES ARE TO BE INSTALLED AT ALL HIGH POINTS OF SUB–SURFACE ZONES. MORE THAN 1 AIR RELIEF VALVE MAY BE REQUIRED DEPENDING ON LAYOUT AND TOPOGRAPHY.



AIR RELIEF VALVE

NTS

SITE NUMBER:	13006
BASE MODEL:	2018 PROTOTYPE
ASSET TYPE:	COMPANY
CLASSIFICATION:	NEW
OWNER:	COMPANY
BASE VERSION:	2018
UPGRADE CLASSIFICATION:	COMPANY NEW BUILD
PROJECT YEAR:	2018
FURNITURE PACKAGE:	XXX
DESIGN BULLETINS:	–

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Wendy's

4204 E. JOHNSON AVE.
JONESBORO, AR 72401

REV.	DATE	DESCRIPTION

ISSUE DATE:	3/1/19
PROJECT NUMBER:	N/A
DRAWN BY:	TGH
CHECKED BY:	DLC

CHARLES R. WALKER
3/12/19

SHEET NAME
IRRIGATION DETAILS

SHEET NUMBER
L2.3

PART 1 - GENERAL

1.1 PROJECT RECORD DOCUMENTS

A. Submit record documents indicating location and depth for water, sanitary sewer and storm sewer pipes, gas, and electric lines, and storm water detention (if required). Dimensions to be witnessed to the building corners. Locations shall be shown on a Site Plan Drawing with an accuracy of ±1 foot horizontal and 3" vertical. Record plans should also indicate pipe material and joints used.

1.2 PERMITS AND INSPECTIONS

A. All permits required by laws, ordinances and building codes having jurisdiction shall be obtained at the proper time by and at the expense of the Contractor.

B. Contractor shall obtain all inspections required by all laws, ordinances and public authority having jurisdiction.

1.3 SHOP DRAWINGS

A. Submit Shop Drawings for the following items:
   1. Import fill, bedding and trench backfill.
   2. Asphalt paving materials.
   3. Sanitary sewer, water, storm sewer pipe materials.
   4. Concrete mix design.
   5. Stormwater detention materials (if required).

B. Contractor shall obtain all inspections required by all laws, ordinances and public authority having jurisdiction and shall obtain certificates of such inspections and submit same to the Architect and shall pay all fees, charges, assessment and other expenses in connection therewith.

C. Piping and equipment layout is schematic. Exact locations are determined by structural and other conditions. Design of system may not be changed. Only exact location of piping may be revised to suit construction condition and aid in coordination with work of other Contractors.

D. The materials and equipment installed for the project shall meet the requirements of the Contract Documents and no materials or equipment shall be ordered until reviewed by the Engineer and/or Architect.

E. When submitted for the Engineer and/or Architect's review, shop drawing shall bear the Contractor's certification that they have reviewed, checked and approved the Shop Drawings, that they are in harmony with the requirements of the Project and with the provisions of the Contract Documents and that they have verified all field measurements and construction criteria, materials, catalog number and similar data. Contractor shall also certify that the work represented by the Shop Drawings is recommended by the Contractor and the Contractor's guarantee will fully apply.

F. All Contractors submitting proposals for this Work shall be first examine the Site and all conditions therein. All proposals shall take into consideration all such conditions as may affect the Work under Contract. The submitting of a bid automatically implies that this examination of Site has been done.

G. Contractor shall verify location of utilities and note conditions which would affect the Work. All discrepancies shall then be reported prior to construction.

1.4 TESTING SERVICES

A. Testing services shall be performed by an independent testing agency selected by the General Contractor. Testing Agency Qualifications:
   1. Approved by authorities having jurisdiction.
   2. Agency whose primary business is materials and construction testing.
   3. Objective, competent and independent from the Contractor performing the work to be inspected.
   4. Having adequate equipment, periodically calibrated as required, to perform the special inspections.
   5. Employing experienced personnel educated in conducting, supervising and evaluating special inspections similar in complexity to that required for the Project.

B. Testing services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for verification of compliance with Contract Document requirements.

C. General Contractor to coordinate and schedule the work of the independent testing agency. Notify the independent testing agency 48 hours prior to the expected time when testing services will be required. Establish schedule by advance discussion with the independent testing agency, determine the time required to perform tests and to issue findings.

D. Testing Agency to provide the General Contractor's superintendent with a draft copy of the daily report prior to leaving the Project Site each day. Provide typed copies of testing agency reports, inspections, and certifications within 5 business days to the Architect/Engineer's Office and General Contractor's Office by email.

1.5 TESTING REQUIREMENTS

A. Fine and Coarse Aggregates, Bedding and Backfilling Materials:
   1. Sieve test to ensure compliance with the materials specifications.
   2. Provide 1 test for each source of imported materials as directed by the Engineer.

B. Soil Compaction:
   1. Minimum Frequency of Testing:
      a. Within the Building Footprint: Four tests of subgrade for each layer of fill
      b. Outside a Building Footprint: One test per 2,500 square feet of subgrade for each layer of fill.
      c. Utility Trenches: One test for every 50 linear feet of trench length at each lift.
      d. Curb and Gutter: One test for every 100 linear feet.
      e. Pavement Subgrade, Base Grade: One test for every 2,500 square feet for parking lot construction. One test at every driveway or curb cut location.
   2. Predominately Granular Soils:
      a. Perform necessary laboratory and field testing required to verify compaction of fill, bedding, trench backfill and structure backfill in accordance with ASTM D1557.
      b. Verify the compaction of the first 12 inches of the existing subgrade below structures, utility structures, paved areas, and areas to be filled in accordance with ASTM D1557.
   3. Predominately Cohesive Soils:
      a. Perform necessary laboratory and field testing required to verify compaction of fill trench backfill and structure backfill in accordance with ASTM D698.
      b. Verify the compaction of the first 12 inches of the existing subgrade below structures, utility structures, paved areas, and areas to be filled in accordance with ASTM D698.
   4. Place no additional fill in areas where compaction results do not meet Specification requirements.

C. Bituminous Pavement Testing:
   1. The Contractor shall have the testing agency's density technician and a density gage available whenever paving is occurring. This technician and gage shall monitor placement and compaction of asphalt to verify the maximum density possible is being achieved.
   2. The testing agency shall take 1 core of new parking lot in a location to be determined by the General Contractor. The daily average in place density shall be 95.0% of the mixture's TMD or greater with a minimum density of 93% of TMD. Areas that are not compacted to the specified daily average will be evaluated by the GC and may either be removed or subject to a price reduction.
   3. Thickness: In place compacted thickness tested in accordance with ASTM D3549.
   4. Surface Smoothness: Test finished surface of each hot mix asphalt course for smoothness, using 10foot straightedge applied parallel with and at right angles to centerline of paved area, or by measuring depths of bird baths immediately after a rain.
   5. Workmanship: Finished Surfaces, Especially in High Visibility Areas: Smooth, free of cracks, raveling or spalling holes, rake or roller marks and depressions, or bird baths. Problem Areas Identified: Correct by removing, paving or reheating and re-rolling if possible.
   6. Bird baths exceeding 1/4 inch deep and 10 sft shall be remedied by the Contractor by removing and replacing.

D. Concrete Testing:
   1. Point of sampling and the method of securing the Samples to be determined by the independent testing agency in accordance with ASTM C172.
   2. Perform 1 slump test in accordance with ASTM C143 for each truckload of concrete.
   3. Perform 1 air-entraining test in accordance with ASTM C231 or C173 for each truckload of concrete.
   4. Test the concrete unit weight in accordance with ASTM C138 or C567, as applicable.
   5. Test the air content and fresh concrete temperature of each set of concrete cylinders.
      a. Concrete Cylinder Testing to be in accordance with ASTM C31 and C39. Perform one test for each 150 cubic yards (or fraction thereof) of each class of concrete placed each day.
      b. Concrete Cylinder shall consist of 4 inch standard cylinders.
      c. Test one of the cylinders at 7 days and second cylinders at 28 days. Save third cylinder as a spare if needed.
      d. Acceptance and evaluation of the concrete shall be based on ACI 301.
   6. Workmanship: Finished surface free of cracks, stone holes, chips, footprints, graffiti, animal tracks or bird baths.

PART 2 - EARTHWORK

2.1Imported Fill, Bedding, and Trench Backfill

A.Imported Fill:
   1.Exclusive rubble, gray or blue clay, peat, organic matter, frozen lumps, stone, limestone, or slag.
   2.Have a moisture content of -2% to +3% of optimum such that the material capable of being compacted to 95% of maximum dry density.
   3.Grading requirements:

Sieve Size	Total % Passing
3/8 inch	100%
#4	50%-100%
#100	0%-30%

B.Imported Pavement Aggregate:

1.Aggregate base course shall conform to the requirements of AHTD Section 303 Class 7.

C.Imported drainage stone:
   1.DOT approved supplier and material.
   2.Grading requirements:

Sieve Size	Total % Passing
1/2 inch	100%
3/8 inch	90 - 100%
#80	5%
#200	< 30%

D.Imported bedding and trench backfill:
   1.Exclusive of rubble, gray or blue clay, peat, organic matter, frozen lumps, stone, limestone, or slag.
   2.Have a moisture content of -2% to +3% of optimum such that the material capable of being compacted to 95% of maximum dry density.
   3.Refer to detail for grading requirements.

E.Native material used as fill, bedding, or trench backfill.
   1.Exclusive of rubble, gray or blue clay, peat, organic matter, frozen lumps, stone, limestone, or slag.
   2.Have a moisture content such that material is capable of being compacted to 95% maximum density.
   3.No rocks or lumps over 2 inch in greatest dimension.

F.Imported Topsoil:
   1.Topsoil shall consist of friable surface soil reasonably free of grass, roots, weeds, sticks, stones, or other foreign materials.
   2.The topsoil shall consist of sandy loam, with soil particles within the following percentages: clay; 0-25; silt; 25-50; sand; 50-70; decomposed organic matter; 5-10.
   3.The clay content is optional.
   4.The soil shall have a soil acidity range between a pH 5.0 to pH 7.0. The soil salinity shall not exceed 3 millimhos per centimeter at 25oC (as described by USDA Circular No. 982).

PART 3 - UTILITIES

3.1 WATER SERVICE MATERIALS

A. Pipe: Copper:
   1. B 88, Type K, soft-temper.
   2. Lay water service bellow local frost depth.

3.2 STORM SEWER PIPE MATERIALS

A. Concrete Pipe (RCP):
   1. Reinforced concrete: ASTM C76, Class III (unless otherwise indicated on Drawings).
   2. Manufacturers: DOT approved manufacturer.
   3. Joints: Rubber gasket, ASTM C443.

B. PVC Profile (corrugated PVC):
   1. PVC ASTM F949 and F794.
   2. Manufacturers: Contec, A-2000; or approved equal.
   3. Joints: ASTM F477 double gasket, ASTM D3212.

C. PVC Closed Profile:
   1. PVC ASTM F1804.
   2. Manufacturers: Vylon pipe; or approved equal.
   3. Joints: ASTM F477 gasket, ASTM D3212.

D. Corrugated Polyethylene (HDPE):
   1. Pipe shall have smooth interior, annular exterior corrugations, per AASHTO M294, Type S.
   2. Virgin pipe resin, cell classification 424420C or 435420C per ASTM D3350.
   3. Joints shall be water tight per ASTM D3212 and ASTM F1417.
   4. Gaskets shall be polyisoprene per ASTM F477.
   5. Fittings shall conform to ASTM F2306 N-12 Mega Green WT 1B.
   6. Manufacturers: Advanced Drainage Systems, Inc.; or Hancor-Blue seal WT 1B.

E. Transition Fittings:
   1. Duplex adapter and ring similar to Certainteed Catalog No. 58433 or approved equal.
   2. Rubber or elastomeric sleeve and stainless steel band assembly fabricated to match outside diameters of pipes to be joined. Sleeves for cast iron pipe shall conform to ASTM C564. Sleeves for PVC pipe shall conform to ASTM C443.

3.3 SANITARY SEWER PIPE

A. Polyvinyl Chloride (PVC), Schedule 40 in conformance with ASTM D1785. Pipe joints shall be the same as the sewer. Service lead connections shall incorporate the use of "wye" branches. Tee branches are not permitted for onsite service leads.

B. Cleanouts: Provide cast iron ferrule and countersunk brass cleanout plug, with round cast iron access frame and heavy duty, secured, scoriated cast iron cover. Pipe to be schedule 40 PVC.

3.4 MANHOLES

A. Precast Concrete reinforced concrete in conformance with ASTM C478. Joints shall be rubber gasket per ASTM C443. Base Section: 6-inch minimum thickness for floor slab and 5-inch minimum thickness for walls and base riser section. Base section may be separate or integral with side walls. Riser Sections to be 5-inch minimum wall thickness, minimum 48-inch diameter, and lengths to provide depth indicated. Top Section to be eccentric cone type, unless concentric cone or flat top is indicated. Top of cone to match grade ring diameter. Grade Rings to be minimum thickness of 4 inches with minimum 24-inch internal diameter to match frame and cover. Steps to be modular iron reinforced propylene or aluminum and integrally cast into base, riser, and top sections sidewall at intervals in conformance with OSHA requirements. Frames and Covers to be ASTM A48-83, Class 35, heavy-duty, grey iron, 24-inch inside diameter by 7 to 9 inch riser with 4-inch minimum width flange, in compliance with local agency requirements or as indicated on Drawings.

3.5 CATCH BASIN AND CURB INLETS

A. Basin or inlet shall conform to the requirements specified in the Drawings.

PART 4 - PAVING

4.1 ASPHALT MATERIALS

A. Supplied by a DOT Approved supplier.

B. All mixtures to be:
   1.Surface course shall be in accordance with AHTD Section 307, Type 3. Binder course shall be in accordance with AHTD Section 306, Type 2.
   2. Utilize a minimum of 50% crushed stone.
   3. Aggregate gradation requirements as per AHTD SPECIFICATIONS.
   4.Air voids modified to 4% using regression for light traffic applications (if necessary).
   5. Asphalt Cement: 5.5% to 6.5%.
   6. PG: DOT approved for geographic region of project
   7. Reclaimed Asphalt Pavement (RAP) as percent of total weight of the mixture:
      a. HMA Base: Maximum 35%. State DOT blending requirements; AASHTO M323.
      b.HMA Binder/Leveling: Maximum 25%. Use virgin binder one grade softer, for both high and low temperature, than specified if RAP greater than 20%.
      c. HMA Surface: Maximum 20%. No change in binder selection.
      d. HMA Mixtures with Polymer Asphalt: Maximum 10%.
      e.Greater than 25% RAP or Combination: Use virgin asphalt binder grade in accordance with State DOT blending requirements and AASHTO M 323.
   8. Bond Coat: RS-2.

4.2 CONCRETE MATERIALS

A. Concrete: Ready Mix Concrete conforming to ASTM C-94.
   1.Design mix to project normal-weight concrete consisting of Portland cement, aggregate, air entraining admixture and water to produce the following properties:
   2.The portland cement concrete pavement mixture shall be in accordance with TDOT section 501.
   3.Compressive Strength: 3,500 psi, minimum at 28 days, unless otherwise indicated.
   4. Air Content: 6 percent ±1 percent.
   5. Slump 1-4 inch maximum.
   6. Water/cement Ratio: 0.5 maximum.

B.Portland Cement: ASTM C 150, Type I.: Use same brand of cement throughout project.

C. Fly Ash: ASTM C618, Type F.

D. Aggregates: Grade aggregates according to ASTM C136 Class M, Exposure 4:
   1. Coarse aggregate ASTM C33-55, Number 57.
   2. Fine aggregate ASTM C33.

E. Water: Potable.

F. Admixtures:
   1.Air Entraining Admixture: ASTM C 260, certified by manufacturer to be compatible with other required admixtures.
   2.Calcium Chloride: Do not use calcium chloride in concrete. Do not use admixtures containing calcium chloride in concrete mixes.

G. Fiber:
   1. Polypropylene, ASTM C1116 Type III.
   2. Fiber mesh 300 e3, or equal.
   3. Graded Length (3/4" - 2 1/2").
   4. 1.5 lbs per cubic yard in dumpster pad slab area.

H.Expansion Joint Materials: Joint Filler: Shall be a preformed fiber joint material composed of blended, bonded, flexible and waterproof fiber meeting the requirements of AASHTO M213, or approved equal.

I.Liquid-Membrane Forming Curing Compound: Complying with ASTM C 309, Type I, Class A. Moisture loss not more than 0.055 gr./sq. cm. when applied at 200 square feet per gallon. Color shall be Clear or White.

J. Bonding Compound: Acrylic base, rewettable type.
   1. Dayton Superior; Product - Superior Concrete Bonder (J-41).
   2. Euclid Chemical; Product - Euco-Weld.
   3. L & M Chemicals; Product - Everweld.

K.Joint Sealant Materials: Joint sealant shall be a gray elastomeric silicone or polyurethane sealant designed for concrete expansion and control joints conforming to ASTM C920, or approved equal.

L.Concrete Sealer: 'Scofield' cementone clear sealer. Apply per manufacturer's recommendations.

M.Optional Concrete Color Hardener: 'Scofield' Lithochrome, A33 "Classic Grey", apply per manufacturer's recommendations.

4.3 NOT USED

4.4 PAVEMENT MARKINGS

A. Marking paint shall meet Federal Specification GSA-FSSTT-P-115E Type 1.

B. Size and Color: 4-inch width, white, yellow, blue or other color depending on intended use. Color as indicated on the Drawings.

C. Traffic paint shall be spray type for stripe marking. Contractor may use one of the following:
   1.Repcolite 47610 Traffic Marking Paint: - white and 47660 Traffic Marking Paint - yellow.
   2.Sherwin Williams - Setfast Low VOC Acrylic Traffic Marking Paint TM 5623 (White), TM5627 (Yellow).
   3. See site plan and details for specific colors for different elements.

D. Thermoplastic Marking system: 90 mil thickness (minimum), continuous heat applied, double drop reflective media, 3M (or approved equal) All Weather.

4.5 ADA TRUNCATED DOMES

A.Install at all sidewalk ramps in public right of way, or as required by municipality. Materials shall comply with current ADA accessibility guidelines specifications.

B. Approved manufacturers:
   1. Armor-tile, vitrified polymer composite (VPC).
   2.East Jordan Iron Works (EJIW), Series 7005 cast-iron warning plate. Color: Brick Red, Federal Color No. 22144.
   3.ADA Solutions, Inc. tactile warning surface, glass and carbons reinforced composite.
   4. Duralast, detectable warning, cast iron plates.

PART 5 - LANDSCAPING MATERIALS

5.1 Plant Materials: Certified by state Department of Agriculture, described by ANSI Z60.1 and free of disease or hazardous insects. Nursery stock shall meet the USA Standards of Nursery Stock (USA Standard Z60.1, latest edition) as published by the American Association of Nurserymen.

5.2 MISCELLANEOUS LANDSCAPE MATERIALS

A. Slow Release Fertilizer for Trees and Shrubs: Slow release plant food tablets with a guaranteed analysis of 14-3-3, 17 grams with a 2 to 3 year duration, Woodace Briquets as manufactured by Vigoro Industries, Fairview Heights, IL, or approved equal. Install at rate of 6 tablets per 1-inch caliper of trunk. Install for shrubs per manufacturer's recommendations.

B. Wrapping Materials: Burlap or arboricultural tree wrapping paper of 40-pound weight or greater with crepe surface. Wrap shall be secured with twine or weather-tolerant tape or equal as approved by Civil Engineer.

C. Stakes: New 2 inch by 2-inch hardwood lumber stakes, cedar or galvanized steel posts, 6 feet in length minimum, pointed end. Only 1 type, wood or metal, shall be used.

D. Tree Supports: Noncorrosive, of sufficient strength to withstand wind pressure and resultant movement of plant life, minimum 12-gauge wire or flexible 2 to 3-inch-wide nylon or plastic straps.

E. Plant Protectors: Rubber sleeves of suitable length over cable to protect plant stems, trunks, and branches to be 1/2 inch inside diameter reinforced rubber hose. All sleeves shall be uniform in color.

F. Anti-Desiccant: An emulsion, which provides a protective film over plant surfaces, sufficiently permeable to permit transpiration. Delivered in containers of the manufacturer; they must be mixed in accordance with his directions. "Dow Wax" by Dow Chemical Company, and Wilt Proof by Nursery Specialty Products, Inc., Groton Falls, New York, or approved equals acceptable.

G. Tree, Shrub, and Parking Lot Island Mulch: Mulch shall be double shredded, non-dyed, hardwood free from deleterious materials and fine dust, suitable for top dressing of trees, shrubs, or plants. Shredded redwood bark (gorilla hair) or other materials susceptible to igniting shall not be used.

H. Weed Barrier Fabric: Polypropylene or polyester geotextile separation fabric, 3 oz./sq. yd. (101g/sq. m) minimum, composed of fibers formed into a stable network so that fibers retain their relative position. Fabric shall be inert to biological degradation and resist naturally encountered chemicals, alkalis, and acids.

I. Pre-Emergent Herbicide (Selective and Nonselective): Effective for controlling the germination or growth of weeds within planted areas at the soil level directly below the mulch layer.

J. Post-Emergent Herbicide (Selective and Nonselective): Effective for controlling weed growth that has already germinated.

5.3 MAINTENANCE

A. Maintenance shall be the responsibility of the Contractor throughout the warranty period until Final Acceptance.
   1. Final Acceptance for Plantings: Certificate of Final Acceptance shall be executed after landscape plantings are reviewed by the Construction Manager, Civil Engineer, and Owner, one year from Substantial Completion, and have determined that the maintenance and warranty requirements have been satisfactorily performed. Following Final Acceptance, maintenance will be considered the responsibility of the Owner.
   2. Maintenance by the Contractor shall include:
      a. Supplying necessary labor and equipment.
      b. Performing necessary watering, cultivation, weeding, pruning, wound dressing, disease and insect pest control, protective spraying, replacement of unacceptable material, straightening plants that lean or sag, adjustment of plants that settle or are planted too low, and any other procedure consistent with good horticultural practice necessary to insure normal, vigorous, and healthy growth of all Work under this Contract.
      c. Visits to perform the foregoing Work shall be as necessary as the weather may require.
      d. Disease and Insect Pest Control: Inspect all plant materials as necessary to locate any disease or insect pest infestations. Upon the discovery of any disease or insect pest infestation, identify, or have identified, the nature or species of the infestation and submit the proposed method of control to the Construction Manager for approval prior to application of control measures.
      e. Removal of all support stakes and wrapping.

5.4 WARRANTY

A. Warranty all plant materials against defects, including unsatisfactory growth and death. This warranty does not include plantings damaged by others, or unusual phenomena or incidents that are beyond the Contractor's control.
   1. At the end of the warranty period, all plants shall be alive and growing in a healthy, vigorous manner.
   2. The Owner reserves the right to reject any plant materials that have lost major mature branches prior to final acceptance; and, therefore, no longer meet the specifications for quality as specified.

PART 6 - ELECTRICAL

6.1 COMMON WORK RESULTS FOR ELECTRICAL

A. Provide all materials and equipment and perform all labor required to install new complete electrical system as indicated on Drawings, as required by code and as specified herein.
   1. Temporary service as required.
   2. Primary distribution by electric company.
   3. Secondary service and metering installation by contractor.
   4. Telephone system conduit and cables as shown on the drawings.
   5. Exterior lighting fixtures and lamps, installation and wiring.

B. This Contractor shall furnish all labor, materials and equipment necessary to install all of the 208/120-volt electrical service from the utility company transformer to the service entrance equipment, including cables, conduit, pull wire, and ground rod and sleeve. contractor shall coordinate installation of the main electrical disconnect with this Work.

C. Electrical equipment furnished by other trades or by this Contractor and specified in or indicated on Contract Documents shall be installed and connected by this Contractor, except as otherwise noted. Provide branch circuit connections to electrically operated equipment furnished by others as specified in or indicated on the Contract Documents. Temporary wiring for other Contractors shall be furnished and installed by this Contractor who shall be entirely responsible for the safe and satisfactory operation of said temporary wiring. Comply with latest requirements of Occupational Safety and Health Act (OSHA). Provide personnel ground fault protection on all temporary power and lighting circuits 30 amperes or less. Ground fault circuit interrupters on construction circuits are not required where circuit is a permanent circuit to be a part of the completed building. However, Contractor shall provide approved cord sets incorporating GFCI protection for personnel. Refer to the National Electrical Code (NEC).

D. All Work shall be done in accordance with:
   1. NEC.
   2. Codes: state, city and county building codes and ordinances.
   3. National board of fire underwriters.
   4. Certain codes and standards as set up by various technical societies such as UL, NEMA,
   5. NECA, IEEE, ASTM, IES, IPCEA, and ANSI.
   6. This Work shall be governed also by local inspector's requirements.
   7. Federal occupational safety and health act standards.
   8. Americans with Disabilities Act.

E. All permits required by laws, ordinances and building codes having jurisdiction shall be obtained at proper time by and at the expense of this Contractor.

F. All electrical work shall be inspected by the governmental agency having jurisdiction, including local inspection authorities.

G. Owner reserves the right to direct removal and replacement of any item which do not present an orderly or reasonably neat or workmanlike appearance, provided that such item can be properly installed in such orderly way by methods usual in such work. additionally, owner will direct removal and replacement of any item which does not comply with Contract Drawings or Specifications. such removals or replacements shall be at the sole discretion of the Owner and shall be done by Contractor, at the Contractor's expense, when so directed in writing by the Owner.

H. Electrical Contractor shall guarantee his workmanship and material for a period of one year from date of substantial completion and leave his work in perfect order at completion.

I. Should defects develop within guarantee period, this contractor shall, upon notice of same, remedy defects and have damages to other work or furnishings caused by defects or work or correcting same repaired and/or replaced at his expense to condition before such damage.

J. Within 90 days after the date of system acceptance, record drawings of the actual installation shall be provided to the building Owner. record Drawings shall include as a minimum the location and rating of each piece of equipment, general configuration of wire and conduits including sizes and routing, etc.

6.2 IT INSTALLATION

A. The Contractor is responsible for reviewing and understanding Wendy's requirements and forms to ensure a timely installation of it equipment. the contractor shall complete, sign, and return the it readiness form as required.

B. The following are the Site readiness minimum requirements:
   1. The installation of all kitchen equipment is complete.
   2. The building has permanent power.
   3. All isolated ground (IG receptacles) are installed and energized.
   4. The front counters are complete and energized.
   5. Interior walls are completed for kiosks. electrical equip is installed and operational.
   6. Electrical is installed and energized and walls are completed and ready for queuing boards.
   7. Drive-thru loops are installed to HME's specifications.
   8. Bun warmers are installed.
   9. MWS cart is onsite.
   10. HME loops (drive thru loops) are visible.

PART 7 - SOIL EROSION AND SEDIMENTATION

6.1 SOIL EROSION AND SEDIMENTATION CONTROL MATERIALS

A. Stabilized Construction Entrance:
   1. Stabilize a pad of clean crushed stone located at points where traffic will be accessing a construction site. Minimize construction access points to locations as indicated on the Drawings.
   2. Stone Size - Use ASTM C33, size No. 2 (2-1/2-inch to 1-1/2-inch). Use clean crushed angular stone. Crushed concrete of similar size may be substituted but will require more frequent upgrading and maintenance.
   3. Place on woven geotextile fabric if underlying soils are soft. TerraTex GS, or equal.
   4. Thickness: Not less than 6 inches.
   5. Width: Not less than full width of points of ingress or egress or a minimum of 20 feet.
   6. Length: 40 feet minimum in length. These lengths may be increased where field conditions dictate. Stormwater from up-slope areas shall be diverted away from the stabilized pad where the slope of the access road exceeds 5%, a stabilized base of Hot Mix Asphalt Base Course.

B. Mulch Blanket:
   1. 4H:1V: Straw; North American Green S-75; LANDLOK S1; or equal
   2. 3H:1V: Straw; North American Green S-150; LANDLOK S2; or equal.
   3. North American Green Bio-Stake blanket pins at least 6 inches long or equal.
   4. Steel anchoring pins are not allowed without written permission of the Engineer.

C. Hydro-Mulch:
   1. Biodegradable, Hydraulic Mulch (HM) composed of 100% recycled cellulose fibers and a tackifier.
   2. Terra-Mulch Cellulose with Tacking Agent 3.
   3. 30 lbs/acre.

D. Silt Guard:
   1. Above Ground Filters:
      Refer to detail
   2. Inlet Protection (Catch Basins):
      Refer to detail

E. Dewatering Filter Bags:
   1. Ultratech International, Inc.: Ultra Dewatering Bag, SedCatch dewatering Bag; or equal.
   2. Manufactured with pump pipe connection sized to match pump hose.
   3. Nonwoven Geotextile, Needle Punched Polypropylene, 8 oz/syd (min).
   4. Grab Tensile: 205 pounds in accordance with ASTM D4632 (min).
   5. Flow Rate: 90 gpm/sft in accordance with ASTM D4491 (min).
   6. Apparent Opening Size (AOS): 80 US Sieve.

F. Geotextile Silt Fence:
   1. Synthetic Industries, Terra TexSF-90,
   2. Woven, high strength polypropylene.
   3. Grab Tensile Strength: 124/101 lbs (min) in accordance with ASTM D4632 (min).
   4. Apparent Opening Size (AOS): 30 US sieve (max) in accordance with ASTM D4751 (max).
   5. Water Flow Rate: 10gpm/sft (min) in accordance with ASTM D4491 (min).

SITE NUMBER:	13006
BASE MODEL:	2018 PROTOTYPE
ASSET TYPE:	COMPANY
CLASSIFICATION:	NEW
OWNER:	COMPANY
BASE VERSION:	2018
UPGRADE CLASSIFICATION:	COMPANY NEW BUILD
PROJECT YEAR:	2018
FURNITURE PACKAGE:	XXX
DESIGN BULLETINS:	-

CARLSON
CONSULTING
ENGINEERS, INC.

7068 LEDGESTONE COMMONS
BARTLETT, TENNESSEE 38133
PH. (901) 384-0404 • FX. (901) 384-0710
AR CORPORATION #397

811
Know what's **below.**
Call before you dig.
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prior to excavation:

PROJECT TYPE: 2018 CIVIL PROTOTYPE

Wendy's

4204 E. JOHNSON AVE.
JONESBORO, AR 72401

REV.	DATE	DESCRIPTION

ISSUE DATE:	3/1/19
PROJECT NUMBER:	N/A
DRAWN BY: INITIALS_A	TGH
CHECKED BY: INITIALS_B	DLC

No. 13316
JOSEPH PARSLEY
3/12/19

SHEET NAME
CIVIL SPECIFICATIONS

SHEET NUMBER
CSP1