

## FIRST NATIONAL BANK HILLTOP BRANCH & OFFICE BUILDING

3500 East Johnson Avenue, Jonesboro, Ar

W D & D J O B #16-028

ISSUE SET - BID PACKAGE 1

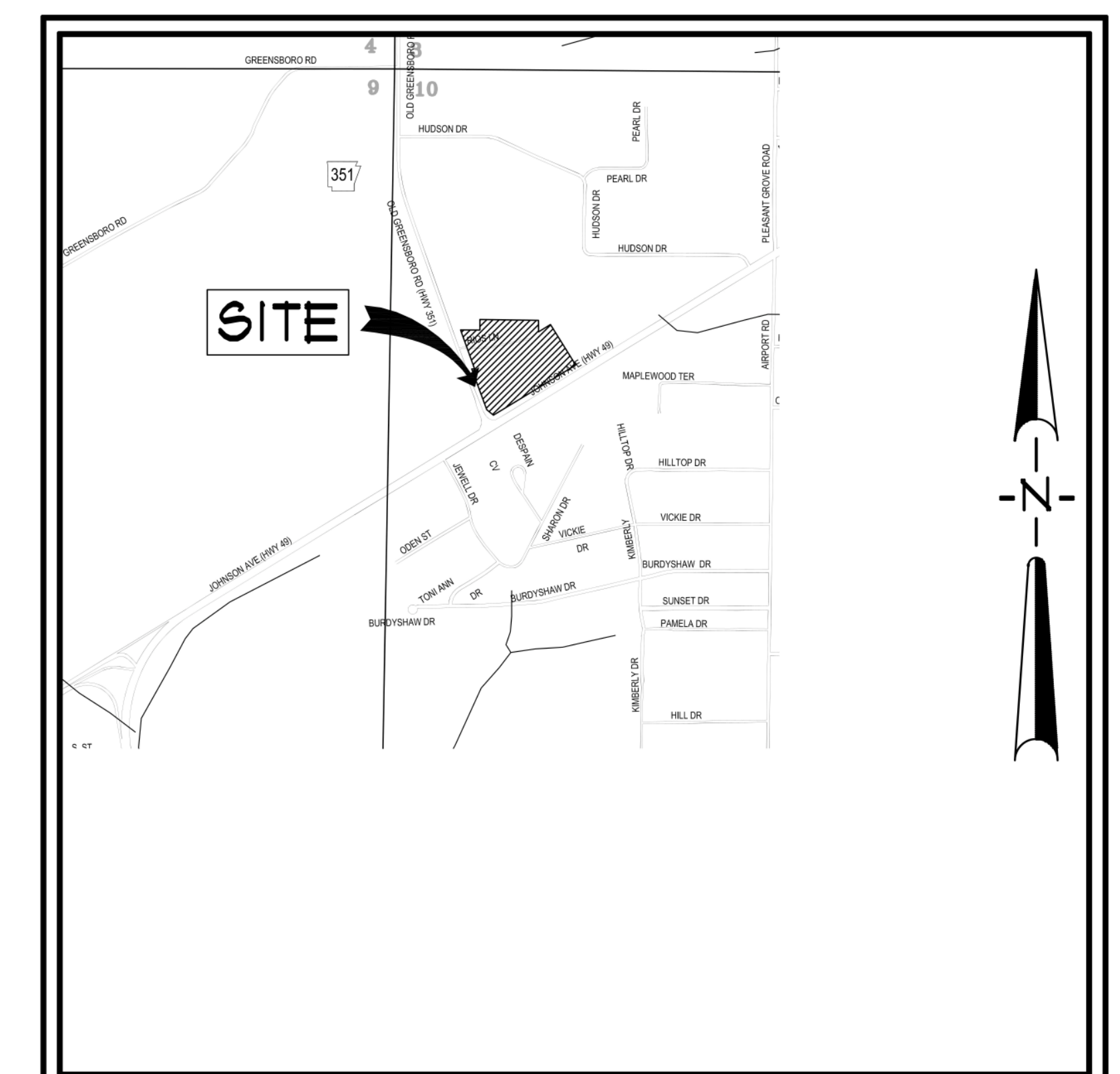
SITE GRADING & SITE IMPROVEMENTS

06/27/16

WITTENBERG, DELONY, & DAVIDSON, INC.  
ARCHITECTS - INTERIOR DESIGN -  
PLANNERS  
400 WEST CAPITOL, SUITE 1800  
LITTLE ROCK, ARKANSAS 72201-4857  
PH. # 501-376-6681  
FAX # 501-376-0231

Associated Engineering, LLC  
CIVIL ENGINEERS  
103 South Church St.  
P.O. Box 1462  
Jonesboro, ARKANSAS 72403  
PH. # 870-932-3594  
FAX # 870-935-1263

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SHEET NUMBER	SHEET NAME
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VICINITY MAP

**RESOURCE LIST**

- CITY OF JONESBORO - PLANNING AND ZONING  
OTIS SPRIGGS, CITY PLANNER  
307 VINE STREET  
JONESBORO, AR 72401  
870-932-0406
- CITY OF JONESBORO - ENGINEERING  
CRAIG LIGHT, P.E.  
CITY ENGINEER  
307 VINE STREET  
JONESBORO, AR 72401  
870-932-2438
- CODES DEPT. FIRE MARSHALL  
CRAIG DAVENPORT  
3215 E. JOHNSON AVE.  
JONESBORO, AR 72401  
870-932-2438
- CITY WATER AND LIGHT - ENGINEERING  
JAKE RICE, P.E., P.S. - MANAGER  
400 EAST MONROE, P.O. BOX 1289  
JONESBORO, AR 72403  
870-932-3381, FAX: 870-932-3303  
SUSAN MENDETH - ACTING ENGINEERING SERVICES DIRECTOR  
870-930-3320
- CENTERPOINT ENERGY  
KEITH CRAIG - SERVICE TECHNICIAN  
3013 OLD FREEDHOUSE ROAD  
JONESBORO, AR 72404  
CELL: 870-997-3750
- AT&T  
723 CHURCH, ROOM B 27  
JONESBORO, AR 72403  
PHIL FARLEY - AREA MANAGER INSTALLATION & REPAIR  
870-972-7827, FAX: 870-972-7810  
TOMMY GRAY - AREA MANAGER ENGINEERING DESIGN  
870-972-7587, FAX: 870-972-7533
- SUDDEN LINK - CABLE TV  
1520 SOUTH CARAWAY ROAD  
JONESBORO, AR 72401  
BOB PROCK - CONSTRUCTION MANAGER  
870-933-8429 EXT. 212, FAX: 870-972-8141  
DEANNA HORNBACK - MANAGER  
JIMMY YANCY - FIELD MANAGER  
CELL: 870-219-8583

**BENCHMARK LIST**

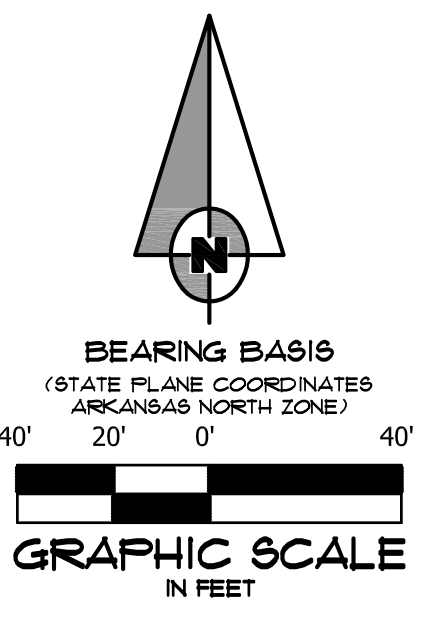
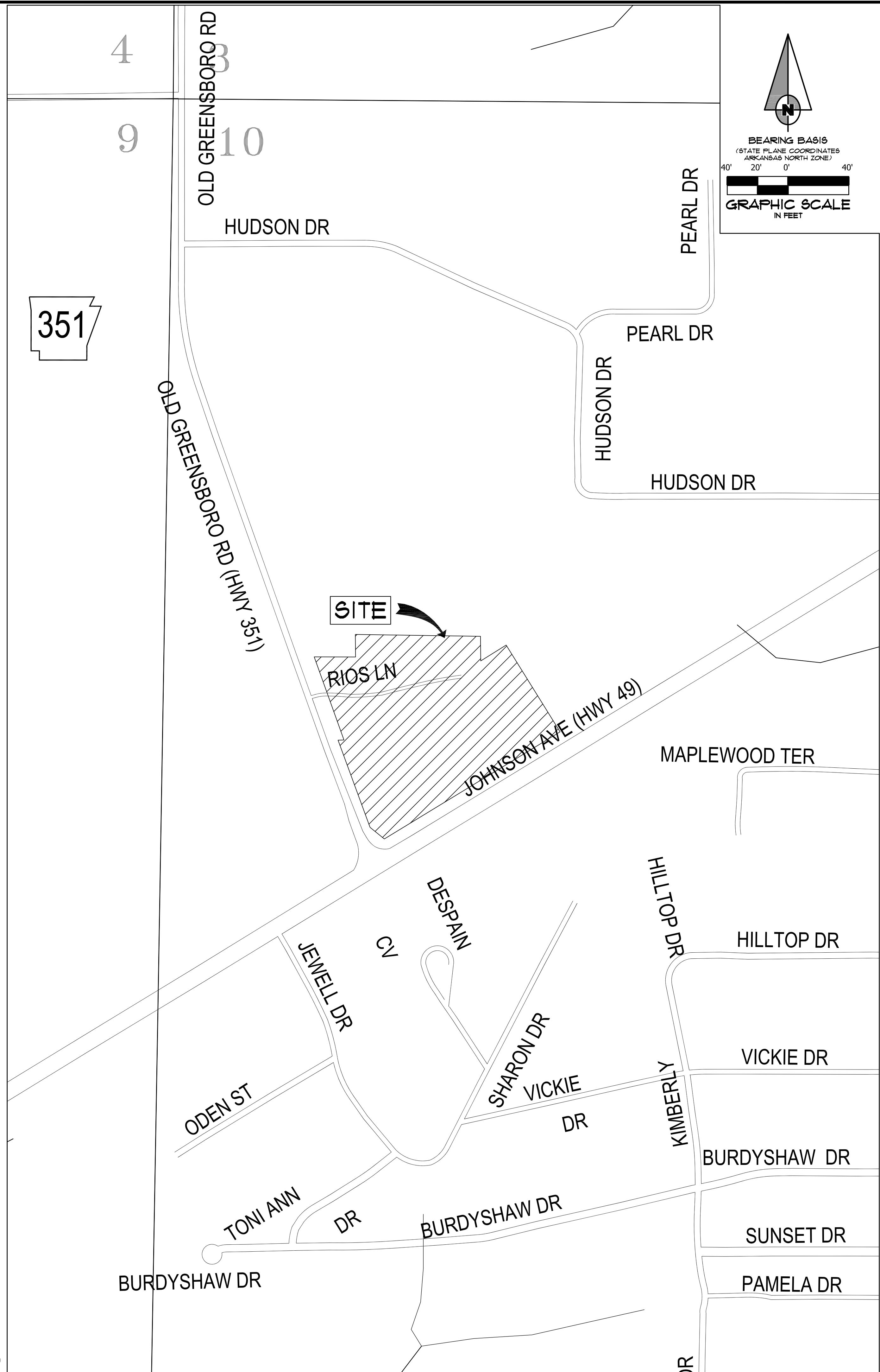
- ELEVATIONS SHOWN HEREON ARE IN FEET AND DECIMAL PARTS THEREOF AND REFER TO MSL DATUM.
- BENCHMARK #1 IS CHISELED SQUARE IN TOP OF 36" RCP LOCATED APPROXIMATELY 3 FEET SOUTH AND 116 FEET EAST OF THE SOUTHEAST CORNER OF SUBJECT PROPERTY.  
ELEV. = 265.94 (NAVD 88)
- BENCHMARK #2 IS CHISELED SQUARE IN CENTER OF INLET ON THE EAST SIDE OF McCLELLAN DRIVE LOCATED APPROXIMATELY 218 FEET NORTH AND 14 FEET EAST OF THE SOUTHWEST CORNER OF SUBJECT PROPERTY.  
ELEV. = 214.16 (NAVD 88)

**GENERAL NOTES**

- SUBJECT PROPERTY IS LOCATED WITHIN ZONE "X", AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOOD PLAIN, AS DESIGNATED BY FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP FOR THE CITY OF JONESBORO, COMMUNITY PANEL 05031004HC (PANEL 44 OF 200). EFFECTIVE DATE - SEPTEMBER 27, 1991.
- SCREENING AND BUFFERING ARE AS SHOWN.
- EASEMENTS ARE AS SHOWN.
- NO KNOWN HISTORICAL STRUCTURES ARE LOCATED ON SUBJECT PROPERTY.
- DIMENSIONS SHOWN ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.

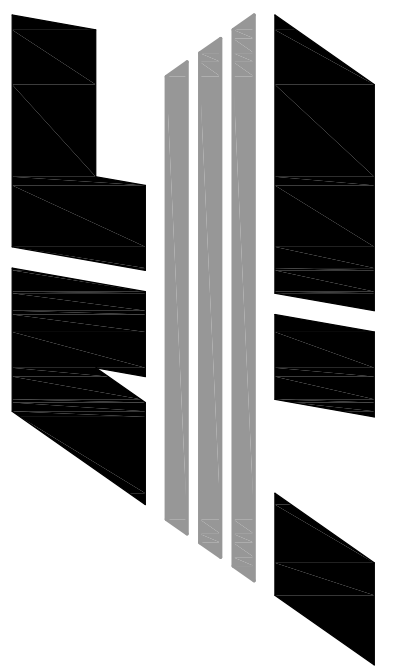
**LEGEND**

	BOUNDARY LINE		FIRE HYDRANT		GRATED INLET
	LOT LINES		VALVE BOX		DOWNSPOUT
	FOUND IRON PIPE		FIRE PROTECTION		SPRINKLER CONTROL
	FOUND COTTON-PICKER SPINDLE		EXISTING OVERHEAD ELECTRICAL LINE		MAILBOX
	FOUND REBAR		EXISTING UNDERGROUND ELECTRICAL LINE		TRASH COMPACTOR
	FOUND IRON PIPE W/ FL6 XXXX CAP		ELECTRIC TRANSFORMER/ELECTRIC METER		COLUMN
	CITY OF JONESBORO G.P.S. MONUMENT		POWER POLE		BOLLARD
	BENCH MARK		POWER JUNCTION COMM. BOX		HANDICAP SIGN
	R/W MONUMENT		SIGN LIGHTS/FLOOR LIGHTS		EXISTING FENCE LINE
	SET 1 1/4" IRON PIPE W/ FL6 #545 CAP		LIGHT POLE (SINGLE)		EXISTING GROUND CONTOUR
	EXISTING SANITARY SEWER LINE		LIGHT POLE (BACK-BACK)		FINISHED GROUND CONTOUR
	PROPOSED SANITARY SEWER LINE		LIGHT POLE (3 x 30')		EXISTING TREE/SHRUB
	EXISTING SANITARY SEWER MANHOLE		Basin Boundary		DRAINAGE FLOW
	PROPOSED SANITARY SEWER MANHOLE		TRAFFIC SIGN		GENERAL DRAINAGE FLOW
	EXISTING SANITARY SEWER CLEANOUT		TRAFFIC LIGHT CONTROL		SILT FENCE
	PROPOSED SANITARY SEWER CLEANOUT		TRAFFIC SIGNAL W/ POLE		ROCK CHECK DAM
	PROPOSED SANITARY SEWER SERVICE LINE		EXISTING OVERHEAD COMMUNICATION LINE		TELEPHONE PEDESTAL
	EXISTING WATER LINE		EXISTING UNDERGROUND COMMUNICATION LINE		EXISTING GAS LINE
	PROPOSED WATER LINE		GAS METER		INLET PROTECTION
	EXISTING WATER METER		EXISTING STORM WATER MANHOLE		ROCK CHECK DAM
	PROPOSED WATER METER				
	WATER VALVE				



**FIRST NATIONAL BANK**  
3500 EAST JOHNSON AVENUE  
HWY. 49 & HWY. 351  
JONESBORO, ARKANSAS

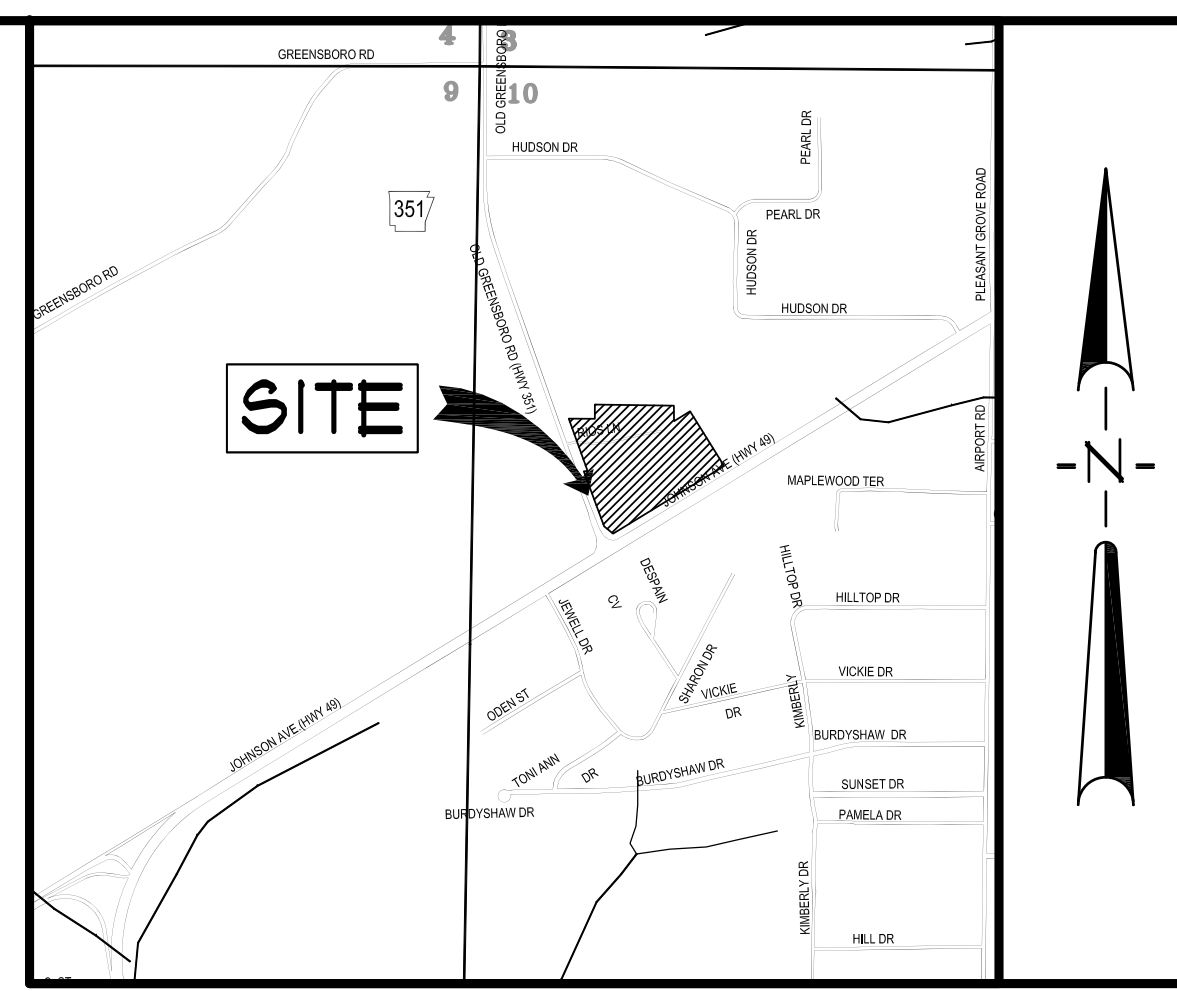
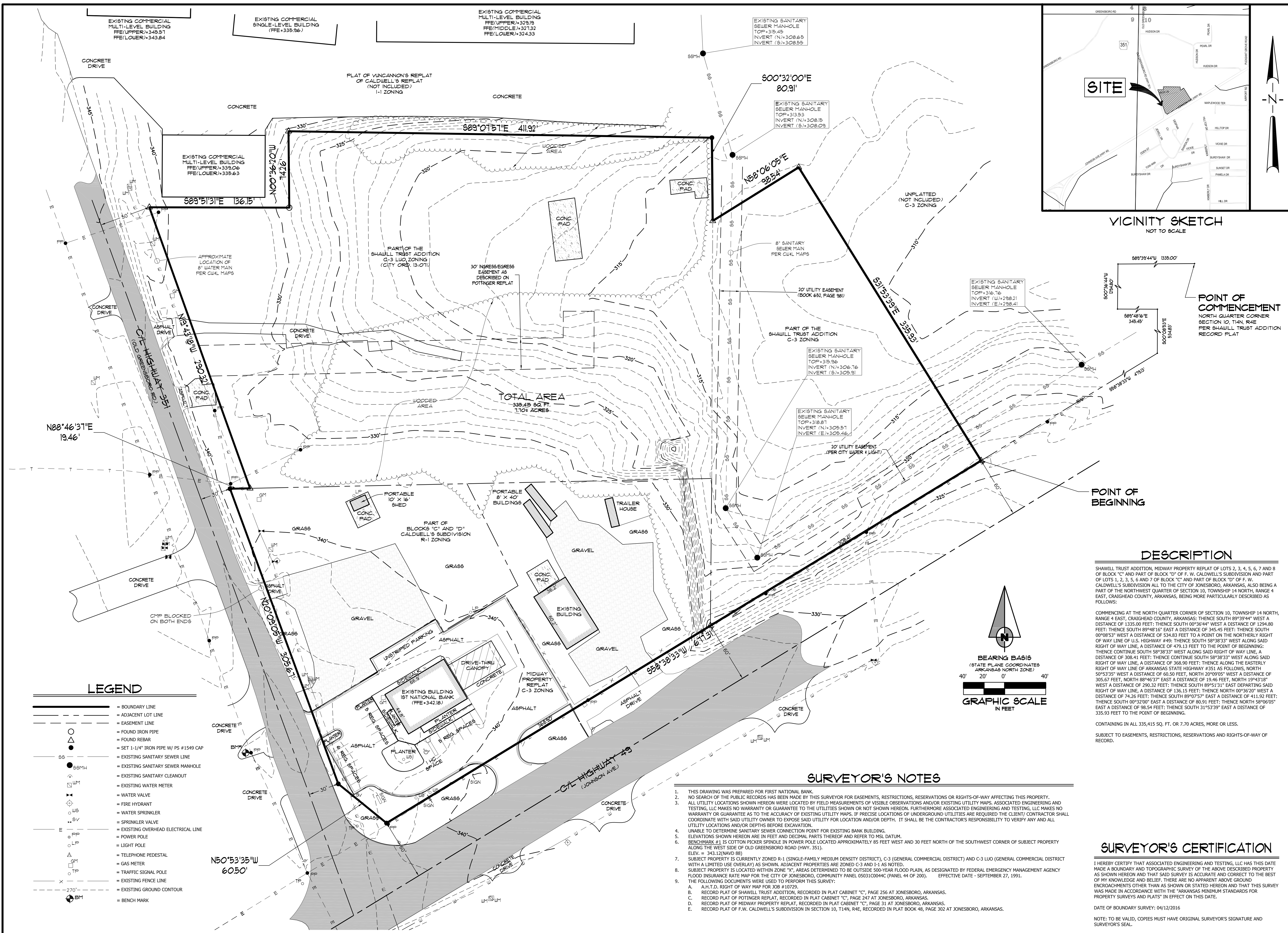
**ASSOCIATED ENGINEERING, LLC**  
CIVIL ENGINEERING • LAND SURVEYING  
LAND PLANNING  
103 SOUTH CHURCH STREET • P.O. BOX 1462  
JONESBORO, AR 72403  
PH: 870-932-3594 • FAX: 870-935-1263



NO.	DESCRIPTION	DATE

**GENERAL NOTES**

DATE:	06/27/16	DRAWN:	COH
CADD FILE:	15165-SDP	CHECKED:	JME
DWG#:	0414104.000X	SHEET:	
SCALE:	1" = 40'	C002	



**POINT OF COMMENCEMENT**  
 NORTH QUARTER CORNER SECTION 10, T14N, R4E PER SHAWILL TRUST ADDITION RECORD PLAT

**POINT OF BEGINNING**

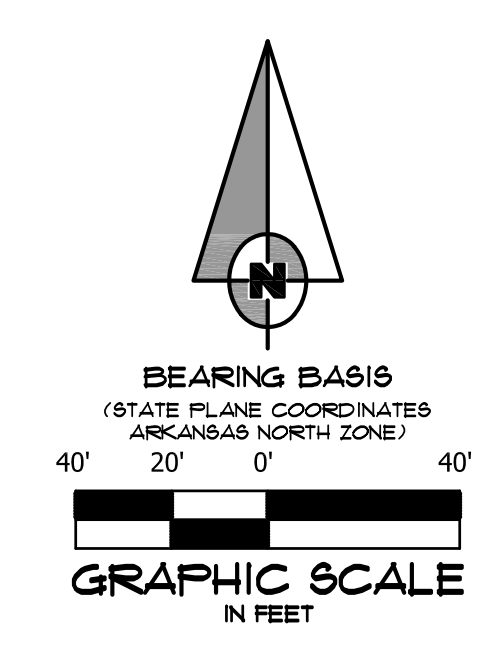
**DESCRIPTION**

SHAWILL TRUST ADDITION, MIDWAY PROPERTY REPLAT OF LOTS 2, 3, 4, 5, 6, 7 AND 8 OF BLOCK "C" AND PART OF BLOCK "D" OF F. W. CALDWELL'S SUBDIVISION AND PART OF LOTS 1, 2, 3, 5, 6 AND 7 OF BLOCK "C" AND PART OF BLOCK "D" OF F. W. CALDWELL'S SUBDIVISION ALL TO THE CITY OF JONESBORO, ARKANSAS, ALSO BEING A PART OF THE NORTHWEST QUARTER OF SECTION 10, TOWNSHIP 14 NORTH, RANGE 4 EAST, CRAIGHEAD COUNTY, ARKANSAS, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTH QUARTER CORNER OF SECTION 10, TOWNSHIP 14 NORTH, RANGE 4 EAST, CRAIGHEAD COUNTY, ARKANSAS; THENCE SOUTH 89°39'44" WEST A DISTANCE OF 1335.00 FEET; THENCE SOUTH 00°30'44" WEST A DISTANCE OF 1294.80 FEET; THENCE SOUTH 89°48'10" EAST A DISTANCE OF 345.45 FEET; THENCE SOUTH 00°08'53" WEST A DISTANCE OF 534.83 FEET TO A POINT ON THE NORTHERLY RIGHT OF WAY LINE OF U.S. HIGHWAY #49; THENCE SOUTH 58°38'33" WEST ALONG SAID RIGHT OF WAY LINE, A DISTANCE OF 479.13 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE SOUTH 58°38'33" WEST ALONG SAID RIGHT OF WAY LINE, A DISTANCE OF 308.41 FEET; THENCE CONTINUE SOUTH 58°38'33" WEST ALONG SAID RIGHT OF WAY LINE, A DISTANCE OF 368.90 FEET; THENCE ALONG THE EASTERLY RIGHT OF WAY LINE OF ARKANSAS STATE HIGHWAY #351 AS FOLLOWS, NORTH 50°53'35" WEST A DISTANCE OF 60.50 FEET, NORTH 20°09'05" WEST A DISTANCE OF 305.67 FEET, NORTH 88°46'37" EAST A DISTANCE OF 19.46 FEET, NORTH 19°43'18" WEST A DISTANCE OF 290.32 FEET; THENCE SOUTH 89°51'31" EAST DEPARTING SAID RIGHT OF WAY LINE, A DISTANCE OF 136.15 FEET; THENCE NORTH 00°36'20" WEST A DISTANCE OF 74.26 FEET; THENCE SOUTH 89°07'57" EAST A DISTANCE OF 411.92 FEET; THENCE SOUTH 09°32'00" EAST A DISTANCE OF 80.91 FEET; THENCE NORTH 58°06'05" EAST A DISTANCE OF 98.54 FEET; THENCE SOUTH 51°53'39" EAST A DISTANCE OF 335.93 FEET TO THE POINT OF BEGINNING.

CONTAINING IN ALL 335,415 SQ. FT. OR 7.70 ACRES, MORE OR LESS.

SUBJECT TO EASEMENTS, RESTRICTIONS, RESERVATIONS AND RIGHTS-OF-WAY OF RECORD.



**SURVEYOR'S NOTES**

- THIS DRAWING WAS PREPARED FOR FIRST NATIONAL BANK.
- NO SEARCH OF THE PUBLIC RECORDS HAS BEEN MADE BY THIS SURVEYOR FOR EASEMENTS, RESTRICTIONS, RESERVATIONS OR RIGHTS-OF-WAY AFFECTING THIS PROPERTY.
- ALL UTILITY LOCATIONS SHOWN HEREON WERE LOCATED BY FIELD MEASUREMENTS OF VISIBLE OBSERVATIONS AND/OR EXISTING UTILITY MAPS. ASSOCIATED ENGINEERING AND TESTING, LLC MAKES NO WARRANTY OR GUARANTEE TO THE UTILITIES SHOWN OR NOT SHOWN HEREON. FURTHERMORE ASSOCIATED ENGINEERING AND TESTING, LLC MAKES NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF EXISTING UTILITY MAPS. IF PRECISE LOCATIONS OF UNDERGROUND UTILITIES ARE REQUIRED THE CLIENT/ CONTRACTOR SHALL COORDINATE WITH SAID UTILITY OWNER TO EXPOSE SAID UTILITY FOR LOCATION AND/OR DEPTH. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ANY AND ALL UTILITY LOCATIONS AND/OR DEPTHS BEFORE EXCAVATION.
- UNABLE TO DETERMINE SANITARY SEWER CONNECTION POINT FOR EXISTING BANK BUILDING.
- ELEVATIONS SHOWN HEREON ARE IN FEET AND DECIMAL PARTS THEREOF AND REFER TO MSL DATUM.
- BENCHMARK #1 IS COTTON PICKER SPINDLE IN POWER POLE LOCATED APPROXIMATELY 85 FEET WEST AND 30 FEET NORTH OF THE SOUTHWEST CORNER OF SUBJECT PROPERTY ALONG THE WEST SIDE OF OLD GREENSBORO ROAD (HWY. 351). ELEV. = 343.12 (NAVD 88)
- SUBJECT PROPERTY IS CURRENTLY ZONED R-1 (SINGLE-FAMILY MEDIUM DENSITY DISTRICT), C-3 (GENERAL COMMERCIAL DISTRICT) AND C-3 LUO (GENERAL COMMERCIAL DISTRICT WITH A LIMITED USE OVERLAY) AS SHOWN. ADJACENT PROPERTIES ARE ZONED C-3 AND I-1 AS NOTED.
- SUBJECT PROPERTY IS LOCATED WITHIN ZONE "X", AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOOD PLAIN, AS DESIGNATED BY FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP FOR THE CITY OF JONESBORO, COMMUNITY PANEL 50031C0044C (PANEL 44 OF 200). EFFECTIVE DATE - SEPTEMBER 27, 1991.
- THE FOLLOWING DOCUMENTS WERE USED TO PERFORM THIS SURVEY:
  - A.H.L.D. RIGHT OF WAY MAP FOR JOB # 10729.
  - RECORD PLAT OF SHAWILL TRUST ADDITION, RECORDED IN PLAT CABINET "C", PAGE 256 AT JONESBORO, ARKANSAS.
  - RECORD PLAT OF POTINGER REPLAT, RECORDED IN PLAT CABINET "C", PAGE 247 AT JONESBORO, ARKANSAS.
  - RECORD PLAT OF MIDWAY PROPERTY REPLAT, RECORDED IN PLAT CABINET "C", PAGE 31 AT JONESBORO, ARKANSAS.
  - RECORD PLAT OF F.W. CALDWELL'S SUBDIVISION IN SECTION 10, T14N, R4E, RECORDED IN PLAT BOOK 48, PAGE 302 AT JONESBORO, ARKANSAS.

**SURVEYOR'S CERTIFICATION**

I HEREBY CERTIFY THAT ASSOCIATED ENGINEERING AND TESTING, LLC HAS THIS DATE MADE A BOUNDARY AND TOPOGRAPHIC SURVEY OF THE ABOVE DESCRIBED PROPERTY AS SHOWN HEREON AND THAT SAID SURVEY IS ACCURATE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THERE ARE NO APPARENT ABOVE GROUND ENCROACHMENTS OTHER THAN AS SHOWN OR STATED HEREON AND THAT THIS SURVEY WAS MADE IN ACCORDANCE WITH THE "ARKANSAS MINIMUM STANDARDS FOR PROPERTY SURVEYS AND PLATS" IN EFFECT ON THIS DATE.

DATE OF BOUNDARY SURVEY: 04/12/2016

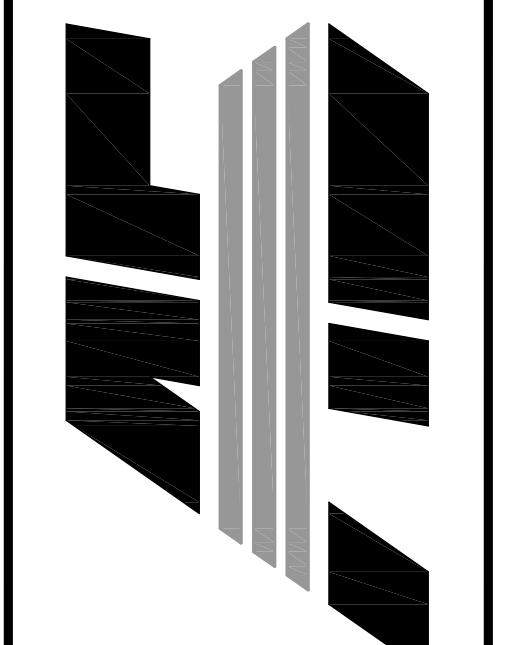
NOTE: TO BE VALID, COPIES MUST HAVE ORIGINAL SURVEYOR'S SIGNATURE AND SURVEYOR'S SEAL.

**LEGEND**

- BOUNDARY LINE
- - - ADJACENT LOT LINE
- - - EASEMENT LINE
- FOUND IRON PIPE
- FOUND REBAR
- SET 1-1/4" IRON PIPE W/ PS #1549 CAP
- EXISTING SANITARY SEWER LINE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING SANITARY CLEANOUT
- EXISTING WATER METER
- WATER VALVE
- FIRE HYDRANT
- WATER SPRINKLER
- SPRINKLER VALVE
- EXISTING OVERHEAD ELECTRICAL LINE
- POWER POLE
- LIGHT POLE
- TELEPHONE PEDESTAL
- GAS METER
- TRAFFIC SIGNAL POLE
- EXISTING FENCE LINE
- - - EXISTING GROUND CONTOUR
- BM BENCH MARK

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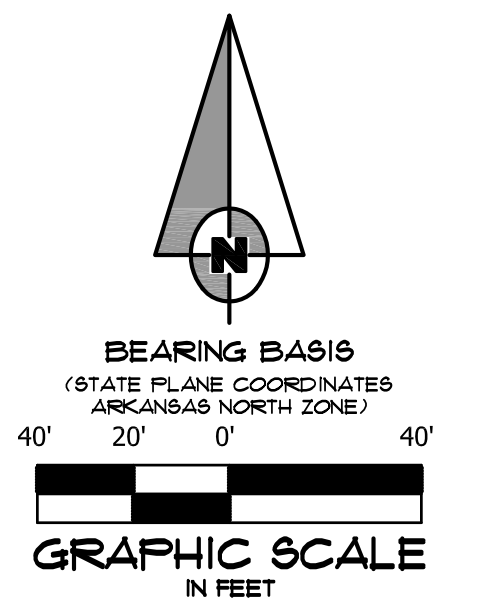
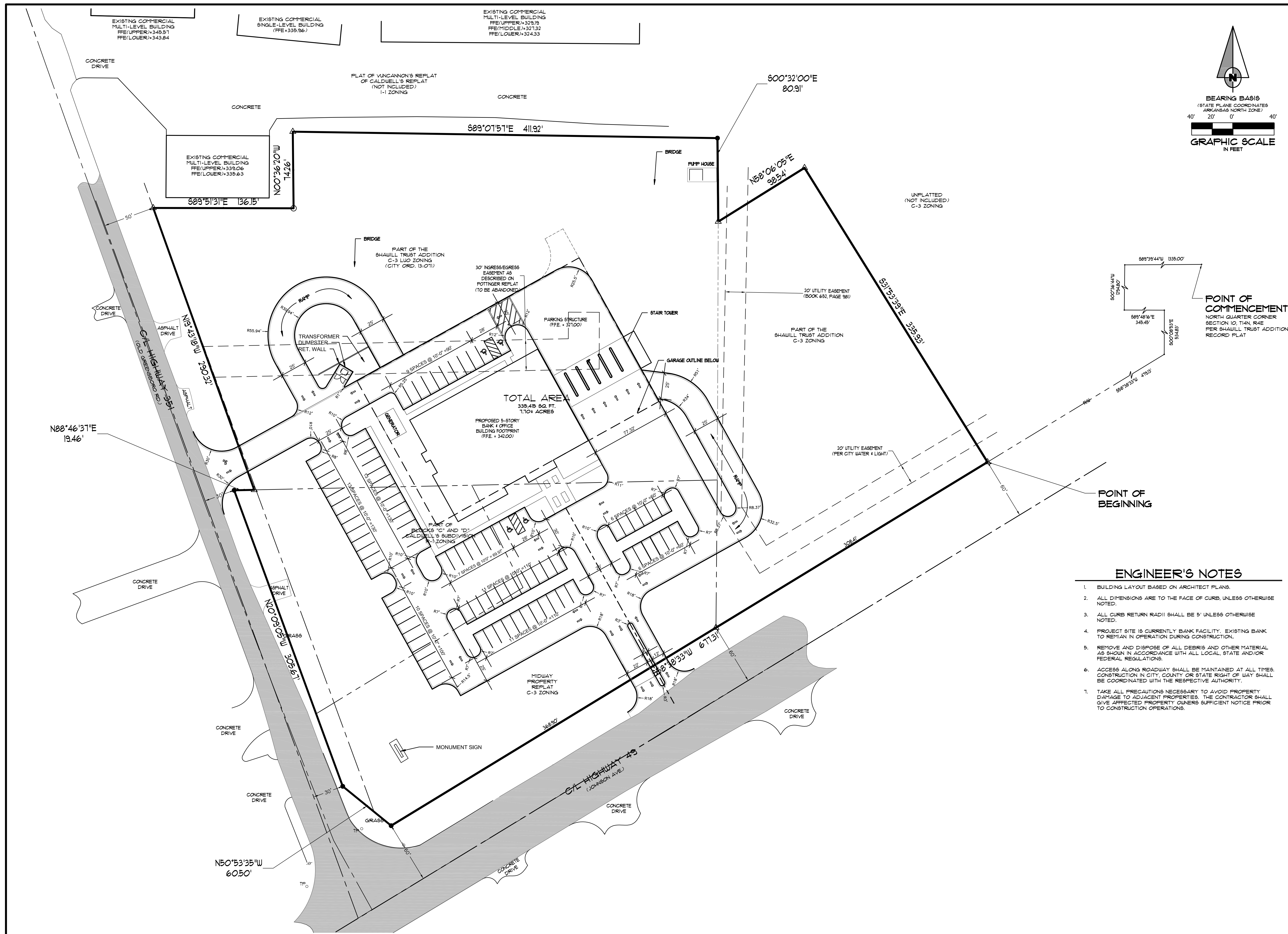
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 JONESBORO, AR 72403  
 PH: 870-932-3594 • FAX: 870-935-1263



NO.	DESCRIPTION	DATE

**BOUNDARY & TOPOGRAPHIC SURVEY**

DATE: 04/12/16 DRAIN: CCH  
 CADD FILE: 15165-001 CHECKED: PVL  
 DWG#: 0414104.0045 SHEET  
 SCALE: 1" = 40' 1 OF 1



**POINT OF COMMENCEMENT**  
 NORTH QUARTER CORNER SECTION 10, T4N, R4E PER SHAULL TRUST ADDITION RECORD PLAT

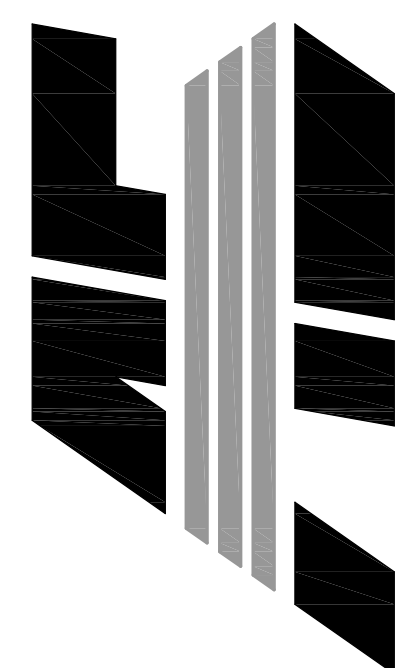
**POINT OF BEGINNING**

**ENGINEER'S NOTES**

1. BUILDING LAYOUT BASED ON ARCHITECT PLANS.
2. ALL DIMENSIONS ARE TO THE FACE OF CURB, UNLESS OTHERWISE NOTED.
3. ALL CURB RETURN RADII SHALL BE 5' UNLESS OTHERWISE NOTED.
4. PROJECT SITE IS CURRENTLY BANK FACILITY, EXISTING BANK TO REMAIN IN OPERATION DURING CONSTRUCTION.
5. REMOVE AND DISPOSE OF ALL DEBRIS AND OTHER MATERIAL AS SHOWN IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS.
6. ACCESS ALONG ROADWAY SHALL BE MAINTAINED AT ALL TIMES. CONSTRUCTION IN CITY, COUNTY OR STATE RIGHT OF WAY SHALL BE COORDINATED WITH THE RESPECTIVE AUTHORITY.
7. TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES. THE CONTRACTOR SHALL GIVE AFFECTED PROPERTY OWNERS SUFFICIENT NOTICE PRIOR TO CONSTRUCTION OPERATIONS.

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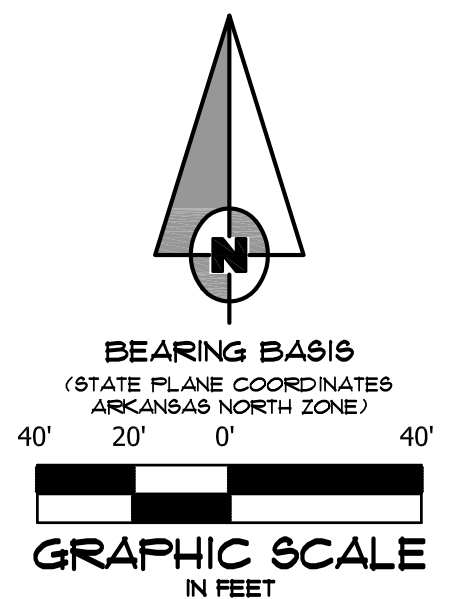
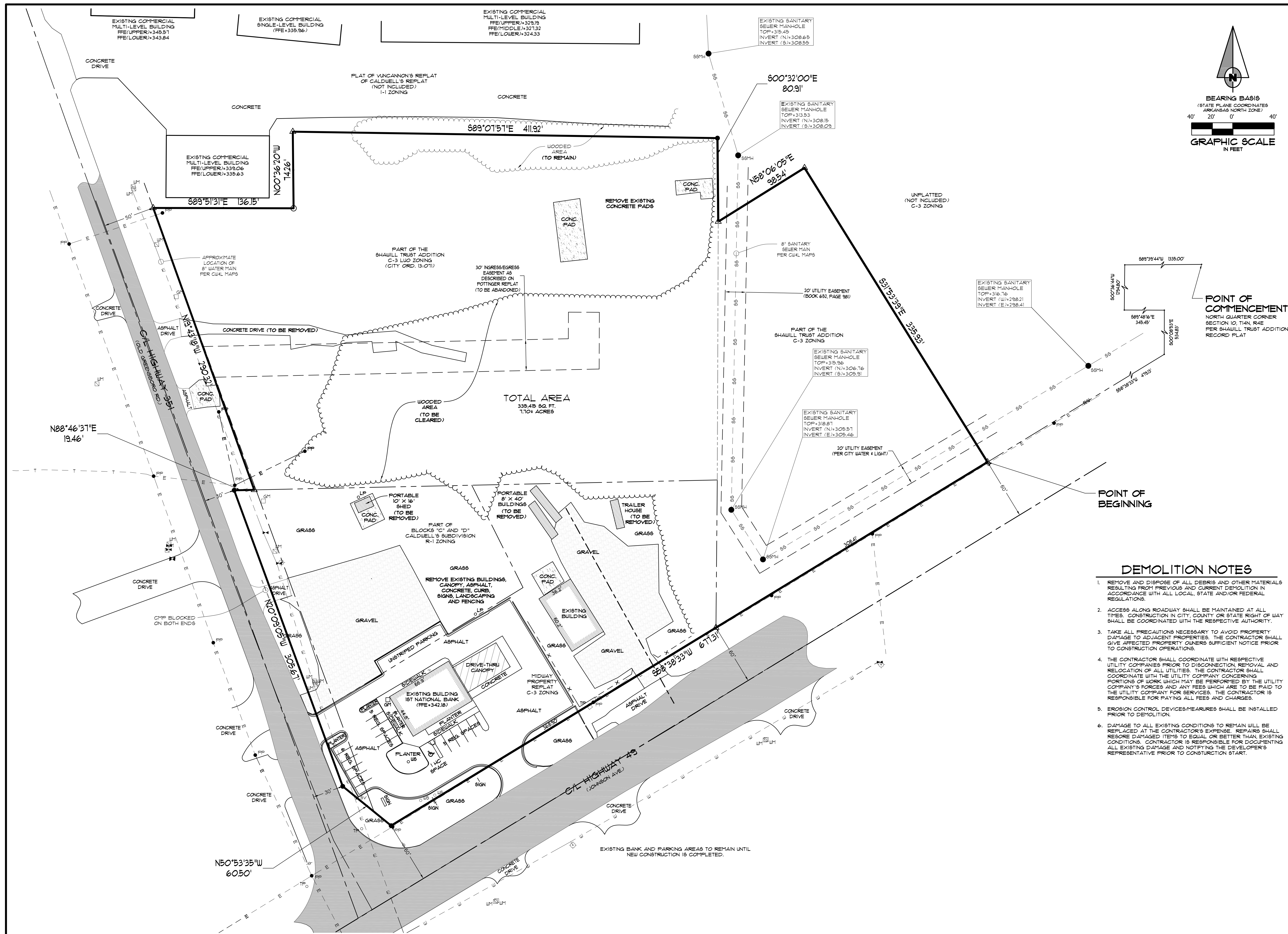
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NO.	DESCRIPTION	DATE

**SITE PLAN**

DATE: 06/27/16    DRAWN: CCH  
 CADD FILE: 15165-SDP    CHECKED: JME  
 DWG#: 0414104.000X    SHEET  
 SCALE: 1" = 40'    C004



**POINT OF COMMENCEMENT**  
 NORTH QUARTER CORNER  
 SECTION 10, T44N, R4E  
 PER SHAULL TRUST ADDITION  
 RECORD PLAT

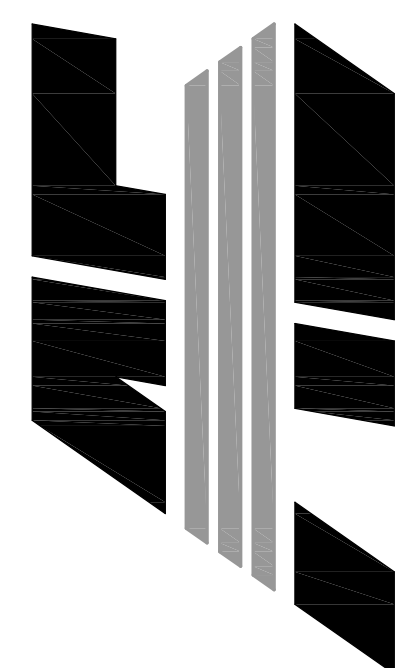
**POINT OF BEGINNING**

**DEMOLITION NOTES**

1. REMOVE AND DISPOSE OF ALL DEBRIS AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS.
2. ACCESS ALONG ROADWAY SHALL BE MAINTAINED AT ALL TIMES. CONSTRUCTION IN CITY, COUNTY OR STATE RIGHT OF WAY SHALL BE COORDINATED WITH THE RESPECTIVE AUTHORITY.
3. TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES. THE CONTRACTOR SHALL GIVE AFFECTED PROPERTY OWNERS SUFFICIENT NOTICE PRIOR TO CONSTRUCTION OPERATIONS.
4. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO DISCONNECTION, REMOVAL AND RELOCATION OF ALL UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
5. EROSION CONTROL DEVICES/MEASURES SHALL BE INSTALLED PRIOR TO DEMOLITION.
6. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE. REPAIRS SHALL RESORE DAMAGED ITEMS TO EQUAL OR BETTER THAN EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING ALL EXISTING DAMAGE AND NOTIFYING THE DEVELOPER'S REPRESENTATIVE PRIOR TO CONSTRUCTION START.

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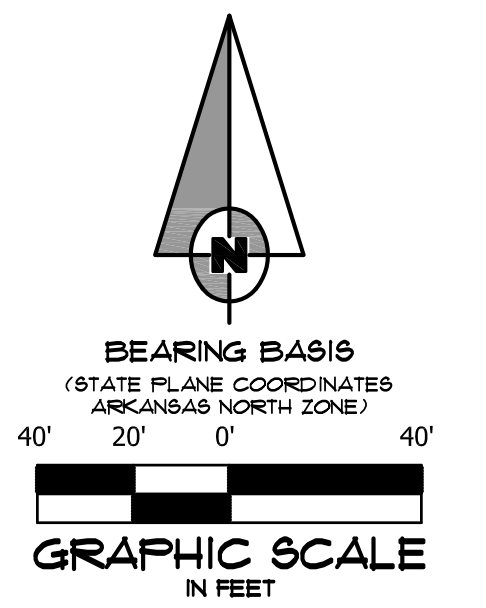
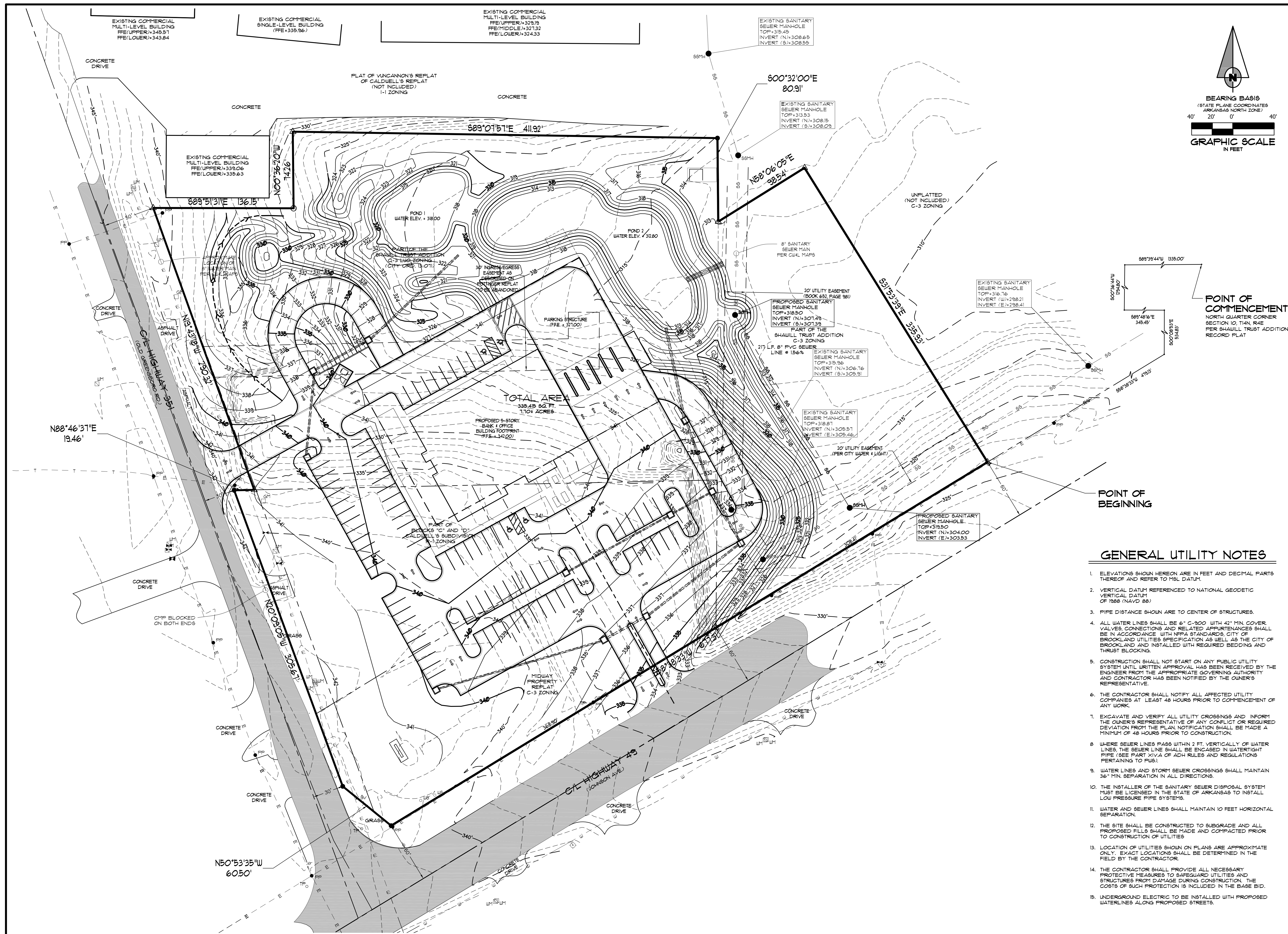
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NO.	DESCRIPTION	DATE

**DEMOLITION PLAN**

DATE: 06/27/16      DRAWN: CCH  
 CADD FILE: 15165-SDP      CHECKED: JME  
 DWG#: 0414104.000X      SHEET  
 SCALE: 1" = 40'      0005



**POINT OF COMMENCEMENT**  
NORTH QUARTER CORNER SECTION 10, T4N R4E PER SHAULL TRUST ADDITION RECORD PLAT

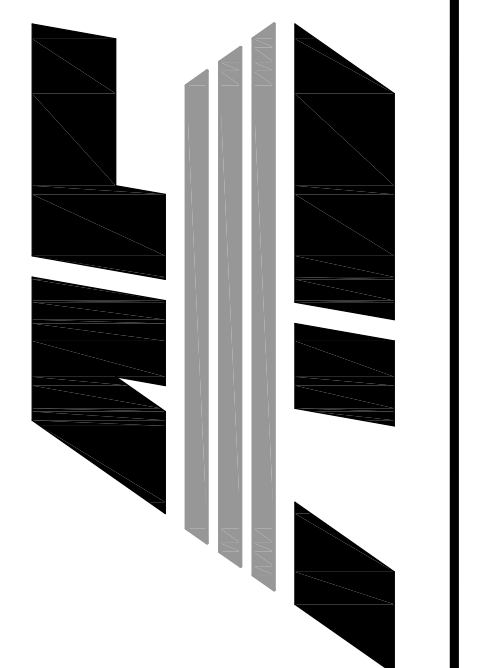
**POINT OF BEGINNING**

**GENERAL UTILITY NOTES**

1. ELEVATIONS SHOWN HEREON ARE IN FEET AND DECIMAL PARTS THEREOF AND REFER TO MSL DATUM.
2. VERTICAL DATUM REFERENCED TO NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD 88).
3. PIPE DISTANCE SHOWN ARE TO CENTER OF STRUCTURES.
4. ALL WATER LINES SHALL BE 6" C-900 WITH 42" MIN. COVER. VALVES, CONNECTIONS AND RELATED APPURTENANCES SHALL BE IN ACCORDANCE WITH NFPA STANDARDS. CITY OF BROOKLAND UTILITIES SPECIFICATION AS WELL AS THE CITY OF BROOKLAND AND INSTALLED WITH REQUIRED BEDDING AND THRUST BLOCKING.
5. CONSTRUCTION SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNTIL WRITTEN APPROVAL HAS BEEN RECEIVED BY THE ENGINEER FROM THE APPROPRIATE GOVERNING AUTHORITY AND CONTRACTOR HAS BEEN NOTIFIED BY THE OWNER'S REPRESENTATIVE.
6. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF ANY WORK.
7. EXCAVATE AND VERIFY ALL UTILITY CROSSINGS AND INFORM THE OWNER'S REPRESENTATIVE OF ANY CONFLICT OR REQUIRED DEVIATION FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION.
8. WHERE SEWER LINES PASS WITHIN 2 FT. VERTICALLY OF WATER LINES THE SEWER LINE SHALL BE ENCASED IN WATER-TIGHT PIPE (SEE PART XIV.A OF ADH RULES AND REGULATIONS PERTAINING TO PUBS).
9. WATER LINES AND STORM SEWER CROSSINGS SHALL MAINTAIN 36" MIN. SEPARATION IN ALL DIRECTIONS.
10. THE INSTALLER OF THE SANITARY SEWER DISPOSAL SYSTEM MUST BE LICENSED IN THE STATE OF ARKANSAS TO INSTALL LOW PRESSURE PIPE SYSTEMS.
11. WATER AND SEWER LINES SHALL MAINTAIN 10 FEET HORIZONTAL SEPARATION.
12. THE SITE SHALL BE CONSTRUCTED TO SUBGRADE AND ALL PROPOSED FILLS SHALL BE MADE AND COMPACTED PRIOR TO CONSTRUCTION OF UTILITIES.
13. LOCATION OF UTILITIES SHOWN ON PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR.
14. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD UTILITIES AND STRUCTURES FROM DAMAGE DURING CONSTRUCTION. THE COSTS OF SUCH PROTECTION IS INCLUDED IN THE BASE BID.
15. UNDERGROUND ELECTRIC TO BE INSTALLED WITH PROPOSED WATER LINES ALONG PROPOSED STREETS.

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HUT. 49 & HUT. 351  
JONESBORO, ARKANSAS

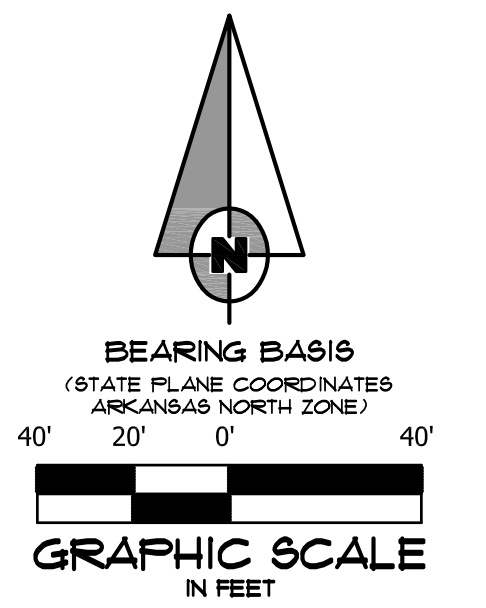
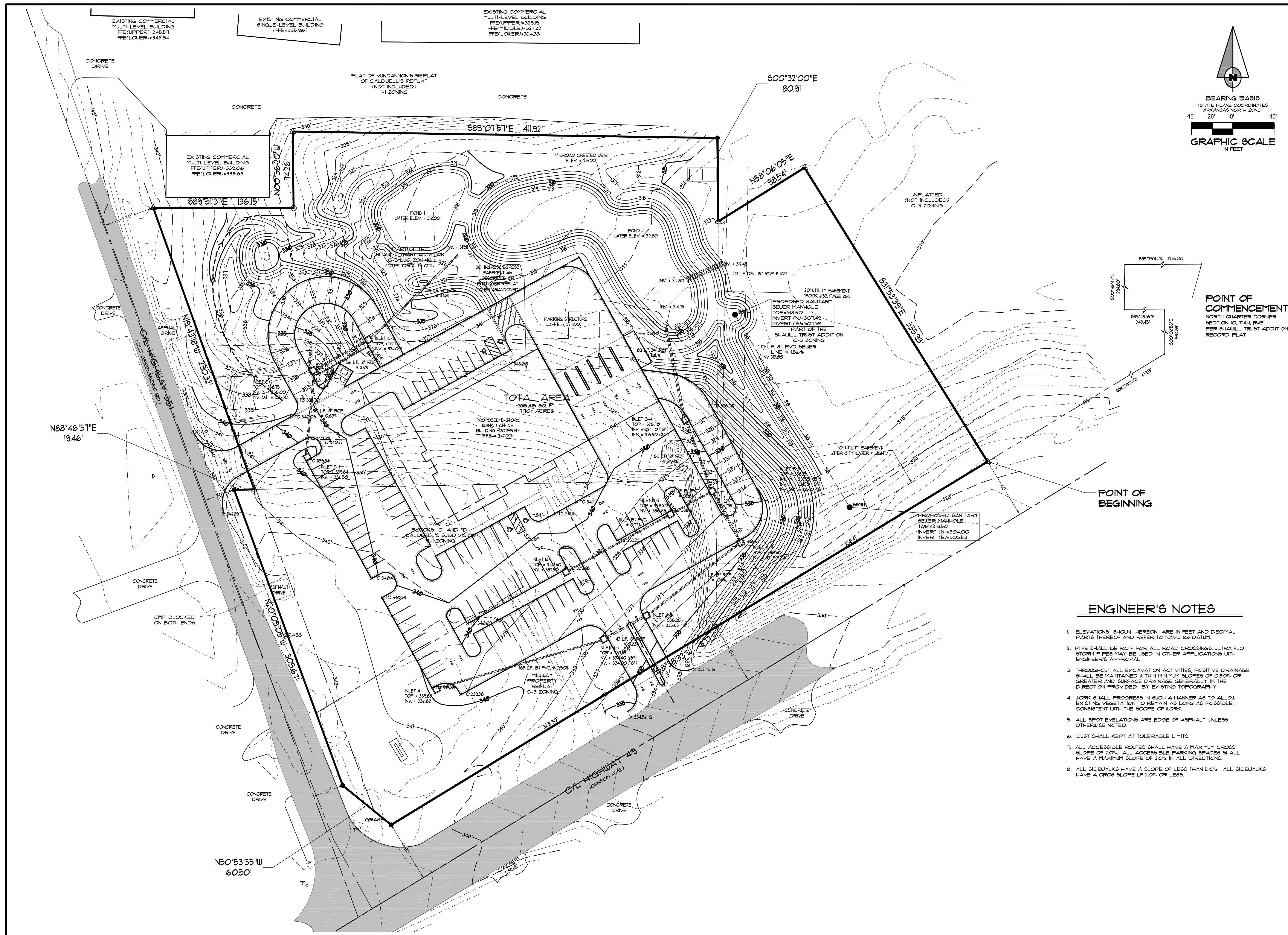
**ASSOCIATED ENGINEERING, LLC**  
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LAND PLANNING  
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JONESBORO, AR 72403  
PH: 870-932-3594 • FAX: 870-935-1263



NO.	DESCRIPTION	DATE

**UTILITY PLAN**

DATE: 06/27/16    DRAWN: CCH  
 CADD FILE: 15165-SDP    CHECKED: JME  
 DWG#: 0414104.000X    SHEET  
 SCALE: 1" = 40'    0006

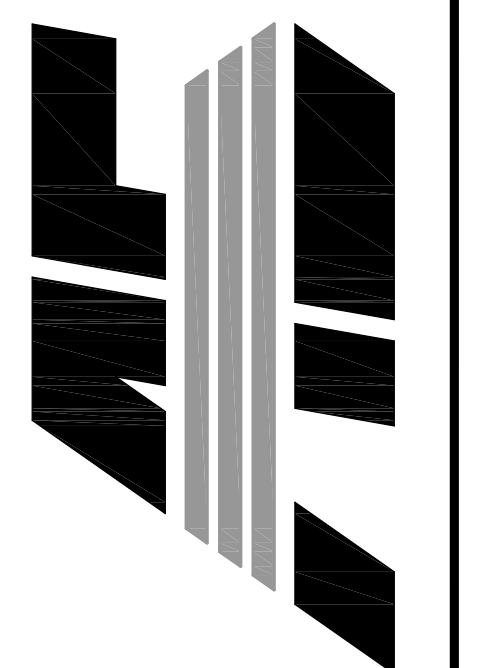


**ENGINEER'S NOTES**

- ELEVATIONS SHOWN HEREON ARE IN FEET AND DECIMAL PARTS THEREOF AND REFER TO NAVD 88 DATUM.
- PIPE SHALL BE RCP FOR ALL ROAD CROSSINGS. ULTRA FLO STORY PIPES MAY BE USED IN OTHER APPLICATIONS WITH ENGINEER'S APPROVAL.
- THROUGHOUT ALL EXCAVATION ACTIVITIES, POSITIVE DRAINAGE SHALL BE MAINTAINED WITHIN MINIMUM SLOPES OF 0.50% OR GREATER AND SURFACE DRAINAGE GENERALLY IN THE DIRECTION PROVIDED BY EXISTING TOPOGRAPHY.
- WORK SHALL PROGRESS IN SUCH A MANNER AS TO ALLOW EXISTING VEGETATION TO REMAIN AS LONG AS POSSIBLE, CONSISTENT WITH THE SCOPE OF WORK.
- ALL SPOT ELEVATIONS ARE EDGE OF ASPHALT, UNLESS OTHERWISE NOTED.
- DUST SHALL BE KEPT AT TOLERABLE LIMITS.
- ALL ACCESSIBLE ROUTES SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.0%. ALL ACCESSIBLE PARKING SPACES SHALL HAVE A MAXIMUM SLOPE OF 2.0% IN ALL DIRECTIONS.
- ALL SIDEWALKS HAVE A SLOPE OF LESS THAN 5.0%. ALL SIDEWALKS HAVE A CROSS SLOPE LF 2.0% OR LESS.

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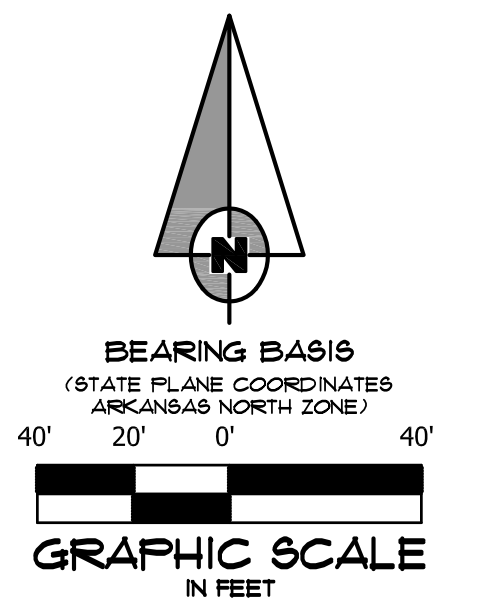
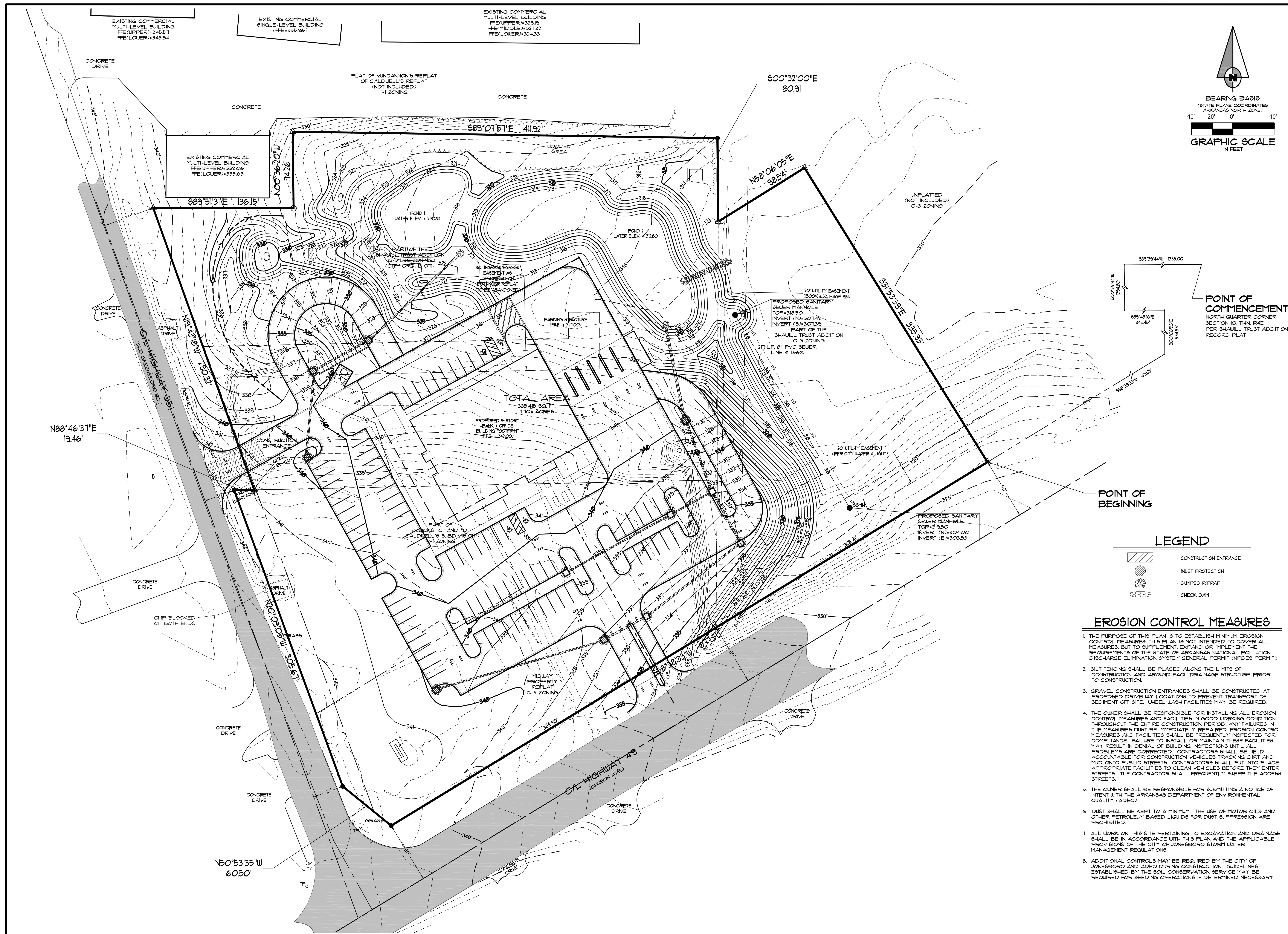
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NO.	DESCRIPTION	DATE

**GRADING PLAN**

DATE: 06/27/16      DRAWN: CCH  
 CADD FILE: 15165-SDP      CHECKED: JME  
 DWG#: 0414104.000X      SHEET  
 SCALE: 1" = 40'      0007



**POINT OF COMMENCEMENT**  
NORTH QUARTER CORNER SECTION 10, T4N, R4E PER SHAULL TRUST ADDITION RECORD PLAT

**POINT OF BEGINNING**

**LEGEND**

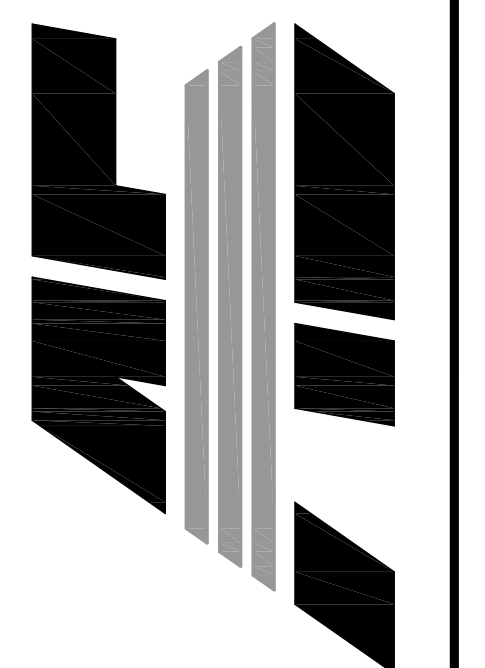
- CONSTRUCTION ENTRANCE
- INLET PROTECTION
- DUMPED RIPRAP
- CHECK DAM

**EROSION CONTROL MEASURES**

1. THE PURPOSE OF THIS PLAN IS TO ESTABLISH MINIMUM EROSION CONTROL MEASURES. THIS PLAN IS NOT INTENDED TO COVER ALL MEASURES, BUT TO SUPPLEMENT, EXPAND OR IMPLEMENT THE REQUIREMENTS OF THE STATE OF ARKANSAS NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT).
2. SILT FENCING SHALL BE PLACED ALONG THE LIMITS OF CONSTRUCTION AND AROUND EACH DRAINAGE STRUCTURE PRIOR TO CONSTRUCTION.
3. GRAVEL CONSTRUCTION ENTRANCES SHALL BE CONSTRUCTED AT PROPOSED DRIVEWAY LOCATIONS TO PREVENT TRANSPORT OF SEDIMENT OFF SITE. WHEEL WASH FACILITIES MAY BE REQUIRED.
4. THE OWNER SHALL BE RESPONSIBLE FOR INSTALLING ALL EROSION CONTROL MEASURES AND FACILITIES IN GOOD WORKING CONDITION THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD. ANY FAILURES IN THE MEASURES MUST BE IMMEDIATELY REPAIRED. EROSION CONTROL MEASURES AND FACILITIES SHALL BE FREQUENTLY INSPECTED FOR COMPLIANCE. FAILURE TO INSTALL OR MAINTAIN THESE FACILITIES MAY RESULT IN DENIAL OF BUILDING INSPECTIONS UNTIL ALL PROBLEMS ARE CORRECTED. CONTRACTORS SHALL BE HELD ACCOUNTABLE FOR CONSTRUCTION VEHICLES TRACKING DIRT AND MUD ONTO PUBLIC STREETS. CONTRACTORS SHALL PUT INTO PLACE APPROPRIATE FACILITIES TO CLEAN VEHICLES BEFORE THEY ENTER STREETS. THE CONTRACTOR SHALL FREQUENTLY SWEEP THE ACCESS STREETS.
5. THE OWNER SHALL BE RESPONSIBLE FOR SUBMITTING A NOTICE OF INTENT WITH THE ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ).
6. DUST SHALL BE KEPT TO A MINIMUM. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED LIQUIDS FOR DUST SUPPRESSION ARE PROHIBITED.
7. ALL WORK ON THIS SITE PERTAINING TO EXCAVATION AND DRAINAGE SHALL BE IN ACCORDANCE WITH THIS PLAN AND THE APPLICABLE PROVISIONS OF THE CITY OF JONESBORO STORM WATER MANAGEMENT REGULATIONS.
8. ADDITIONAL CONTROLS MAY BE REQUIRED BY THE CITY OF JONESBORO AND ADEQ DURING CONSTRUCTION. GUIDELINES ESTABLISHED BY THE SOIL CONSERVATION SERVICE MAY BE REQUIRED FOR SEEDING OPERATIONS IF DETERMINED NECESSARY.

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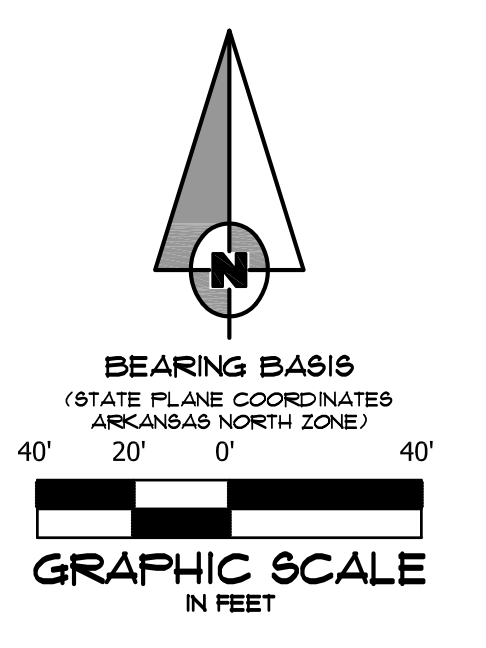
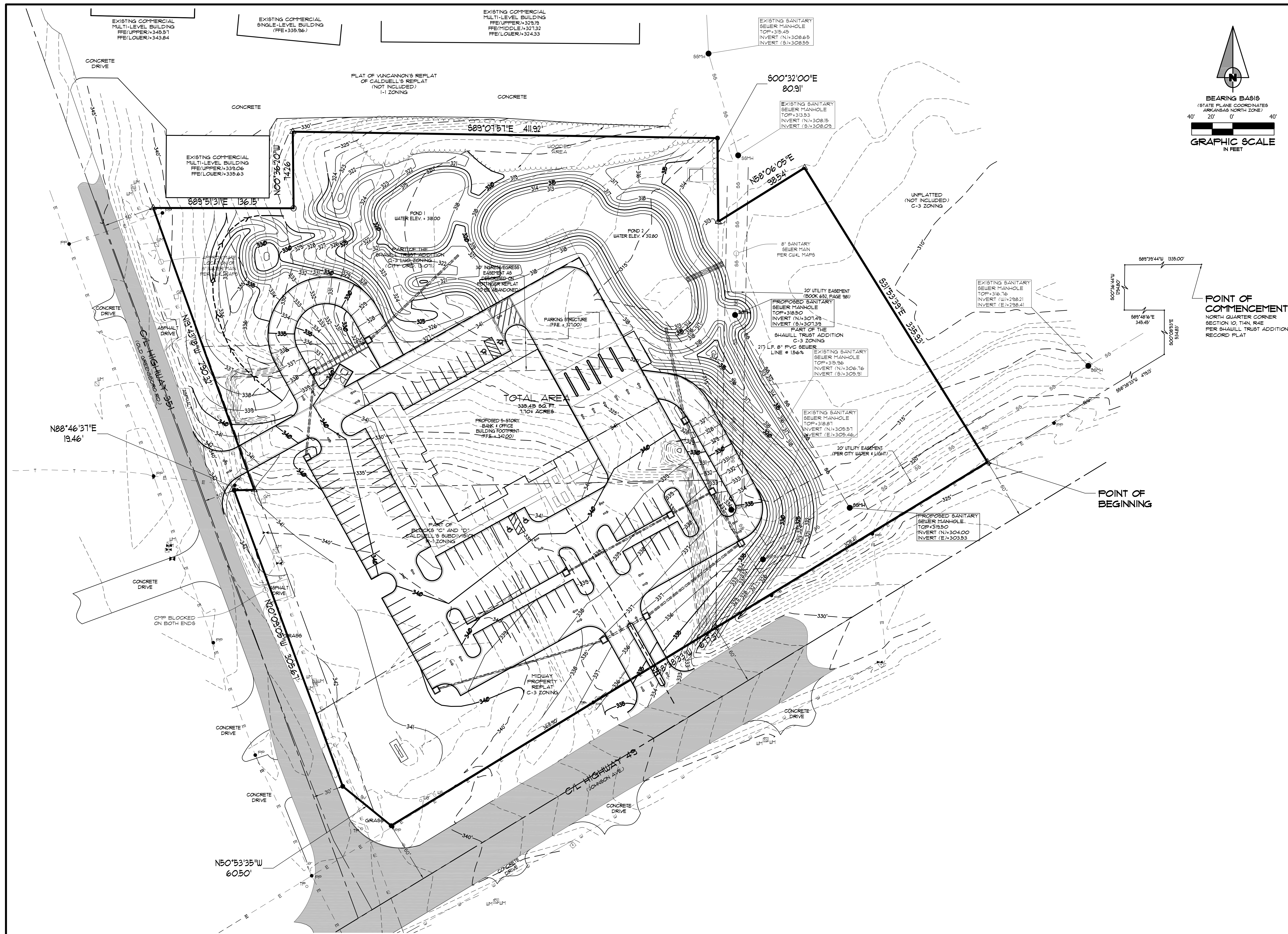


NO.	DESCRIPTION	DATE

**EROSION CONTROL PLAN**

DATE: 06/27/16 DRAIN: CCH  
CADD FILE: 15165-SDP CHECKED: JME  
DWG#: 0414104.000X SHEET  
SCALE: 1" = 40' 008



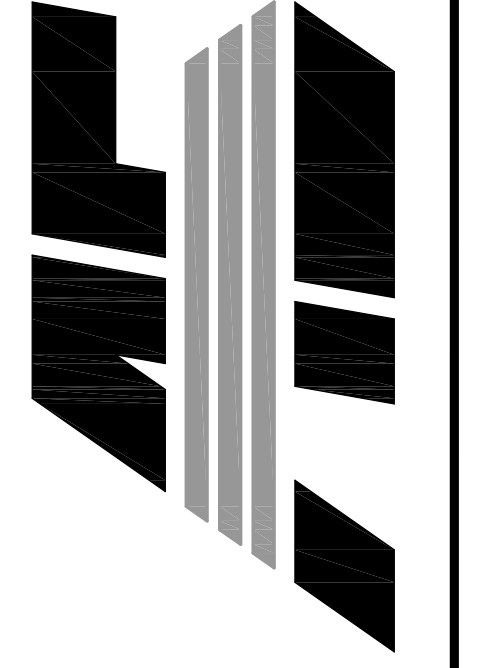


POINT OF COMMENCEMENT  
NORTH QUARTER CORNER  
SECTION 10, T4N, R1E  
PER SHAULL TRUST ADDITION  
RECORD PLAT

POINT OF BEGINNING

FIRST NATIONAL BANK  
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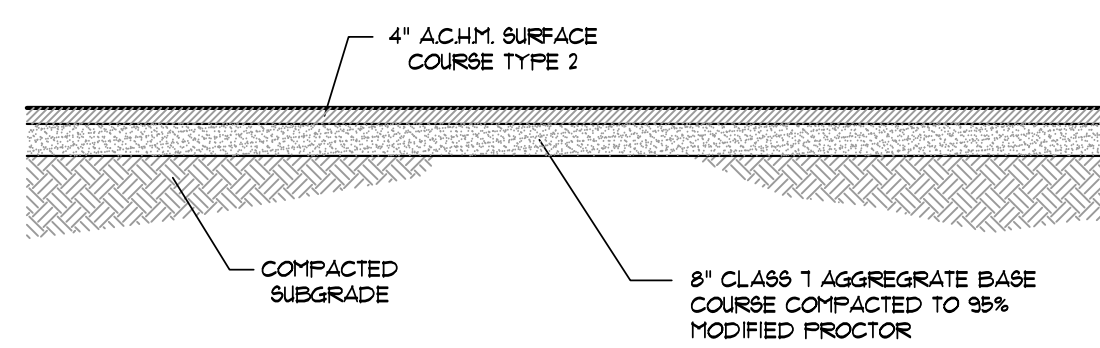
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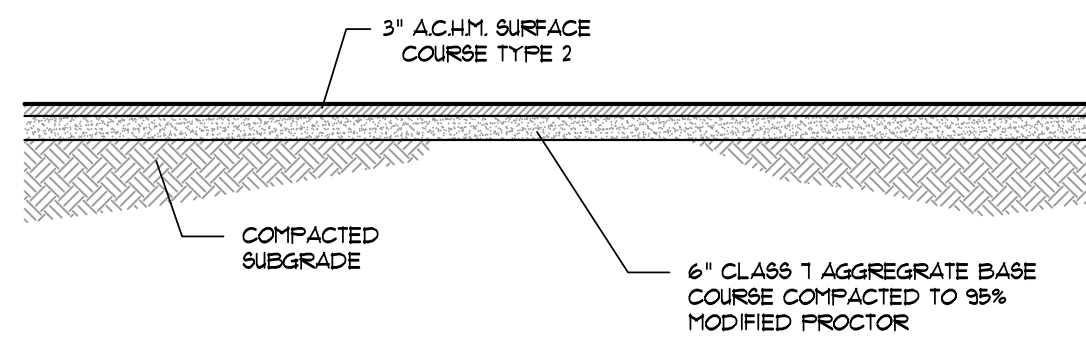
NO.	DESCRIPTION	DATE

LANDSCAPE PLAN

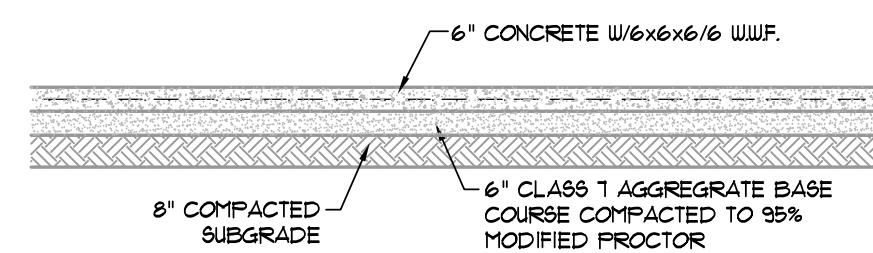
DATE: 06/27/16	DRAWN: CCH
CADD FILE: 15165-SDP	CHECKED: JME
DWG#: 0414104.000X	SHEET
SCALE: 1" = 40'	C009



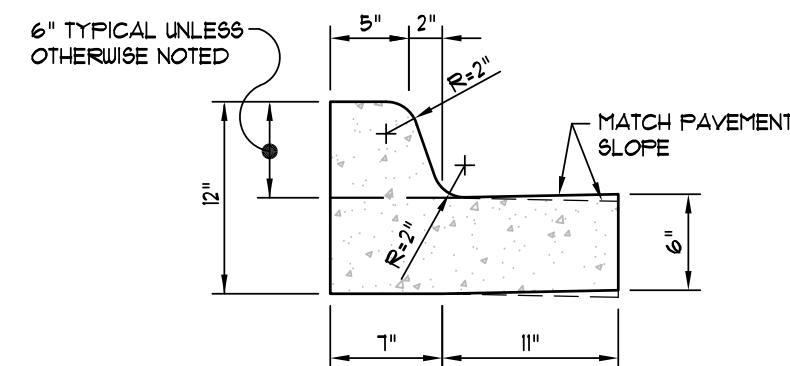
**SECTION - ASPHALT PARKING - HEAVY**  
N.T.S.



**SECTION - ASPHALT PARKING - LIGHT**  
N.T.S.

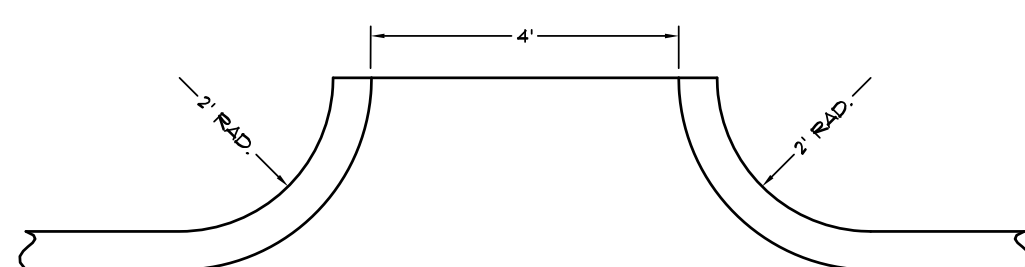


**SECTION - CONCRETE PAVING - LIGHT**  
N.T.S.

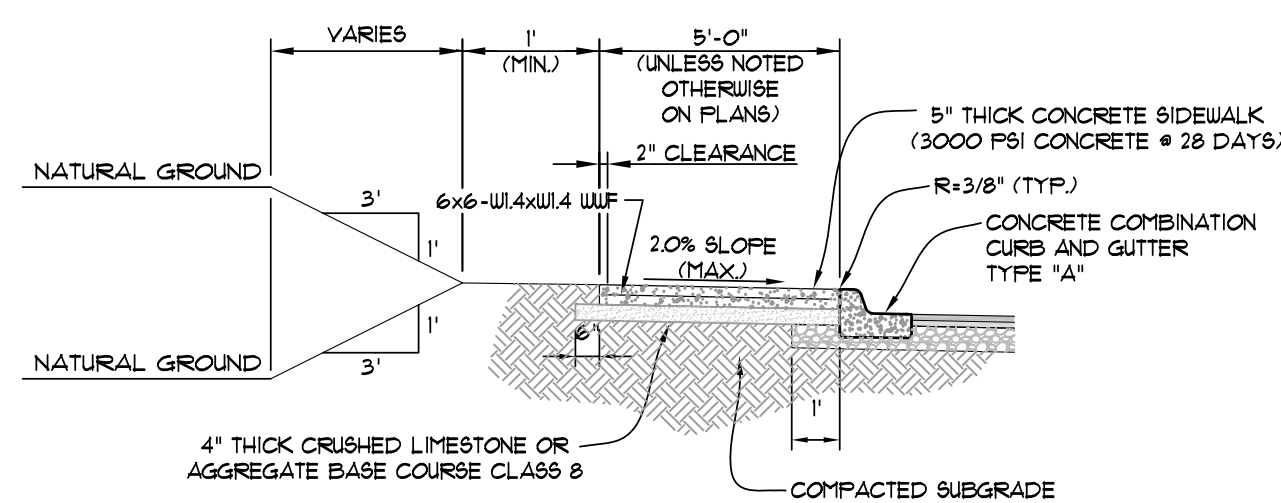


NOTE: CONTRACTION AND EXPANSION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

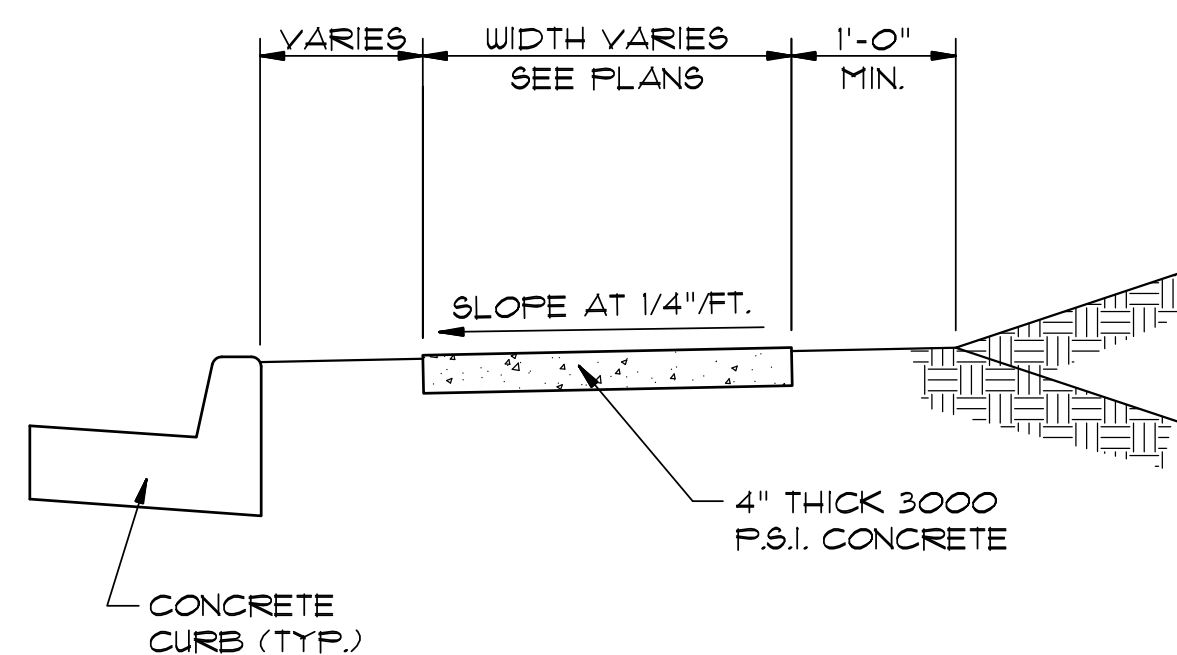
**TYPICAL CURB & GUTTER TYPE "A-18"**  
(NOT TO SCALE)



**CURB CHANNEL**  
(NOT TO SCALE)

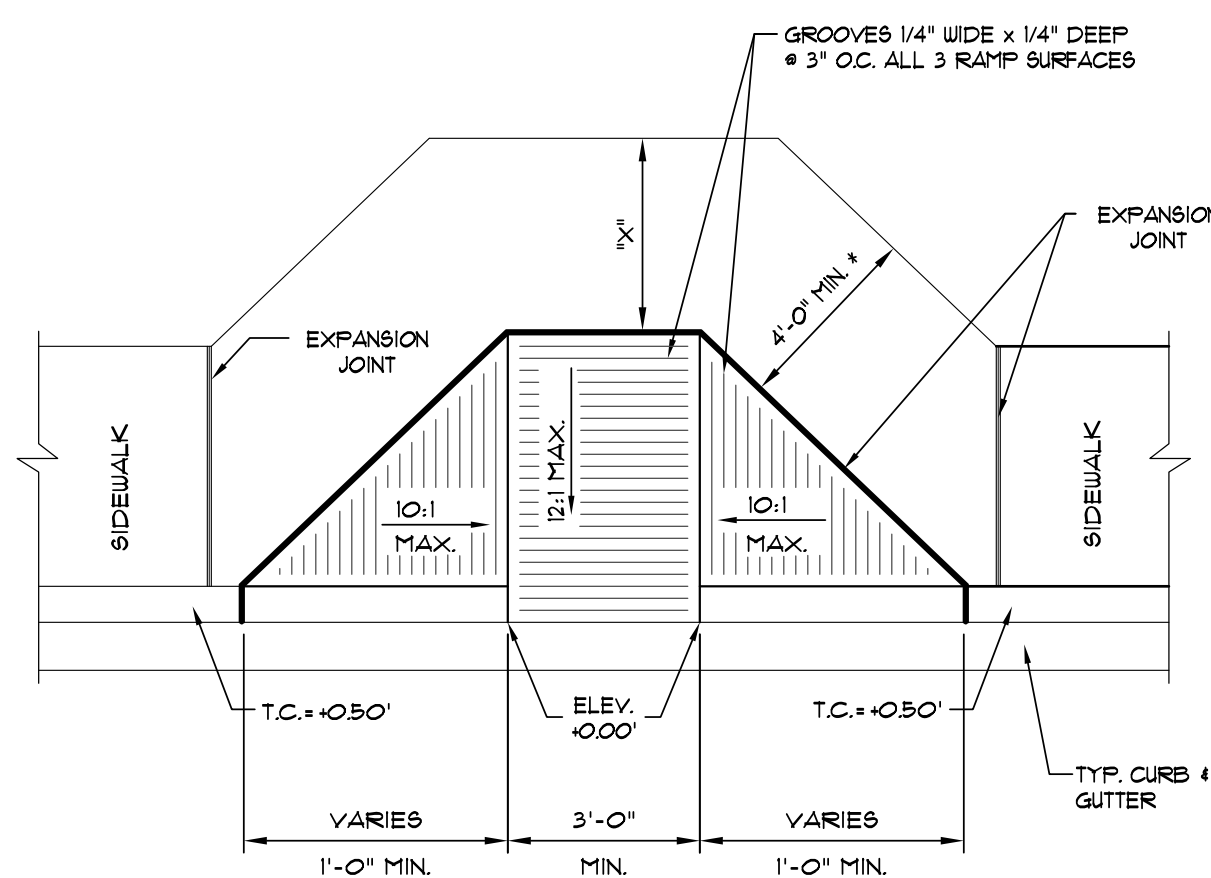


**TYPICAL SECTION - SIDEWALK AT CURB**  
(NOT TO SCALE)



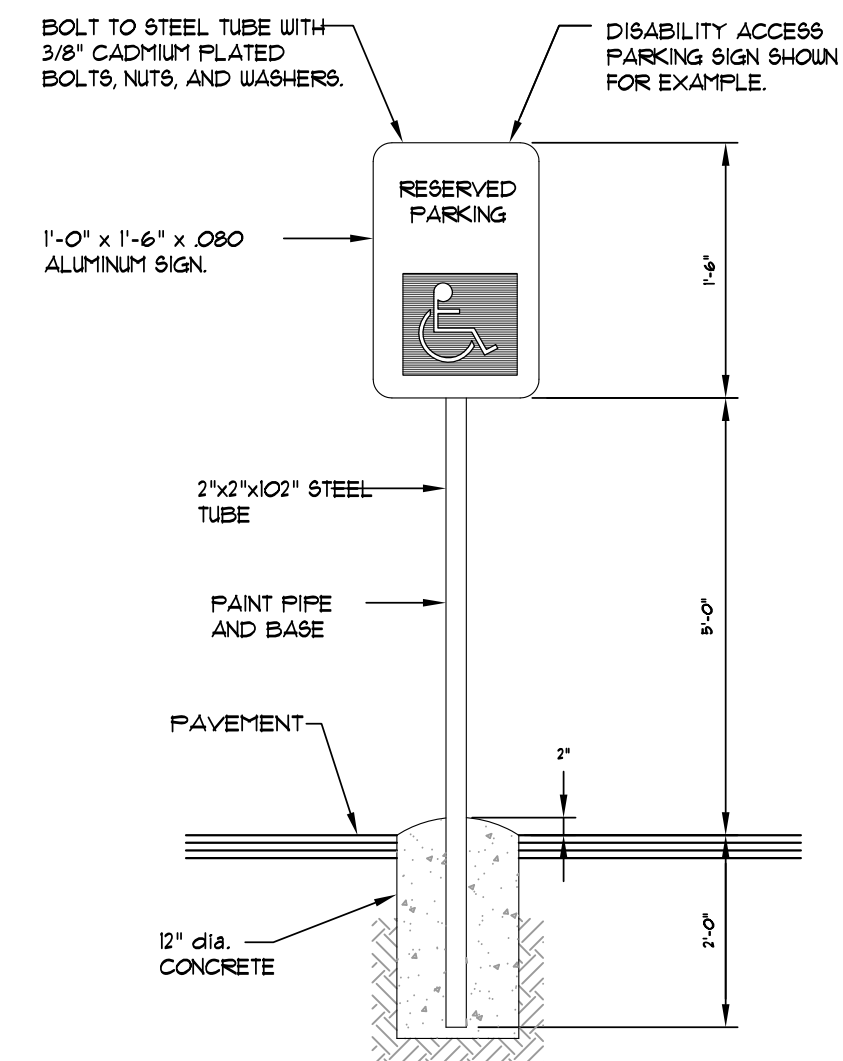
**TYPICAL SECTION - SIDEWALK**  
N.T.S.

\* MINIMUM WIDTH FOR SIDEWALK ADJACENT TO CURB IS 5' FOR CITY STREETS AND 6' FOR STATE OR U.S. HIGHWAYS.



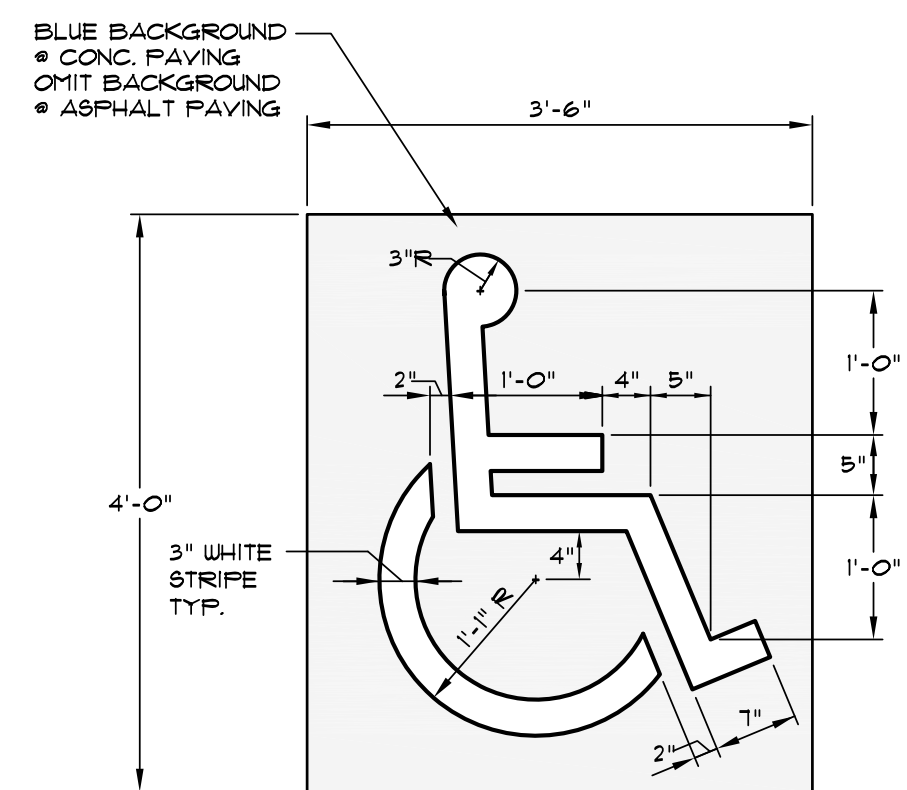
\* NOTE: IF 'X' IS LESS THAN 48", AS APPROVED BY THE CITY, THEN THE SLOPE OF THE FLARED SIDE SHALL NOT EXCEED 2:1.

**TYPE "A" ACCESS RAMP**  
SCALE: 1/4" = 1'-0"



NOTE: ALL SIGNS SHALL CONFORM TO MUTCD AND SHALL BE HIGH INTENSITY.

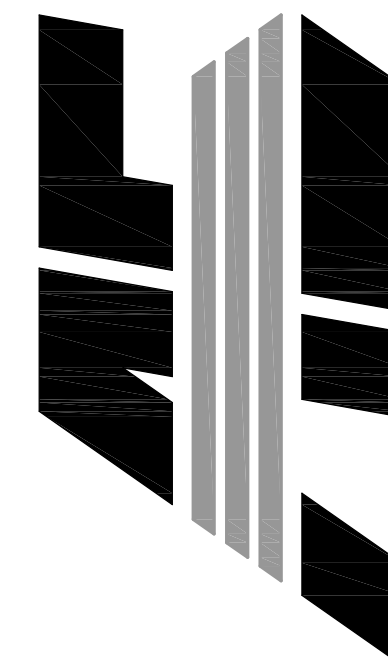
**SIGN DETAIL**  
SCALE: 1/2" = 1'-0"



**PARKING STALL SYMBOL**  
SCALE: 3/4" = 1'-0"

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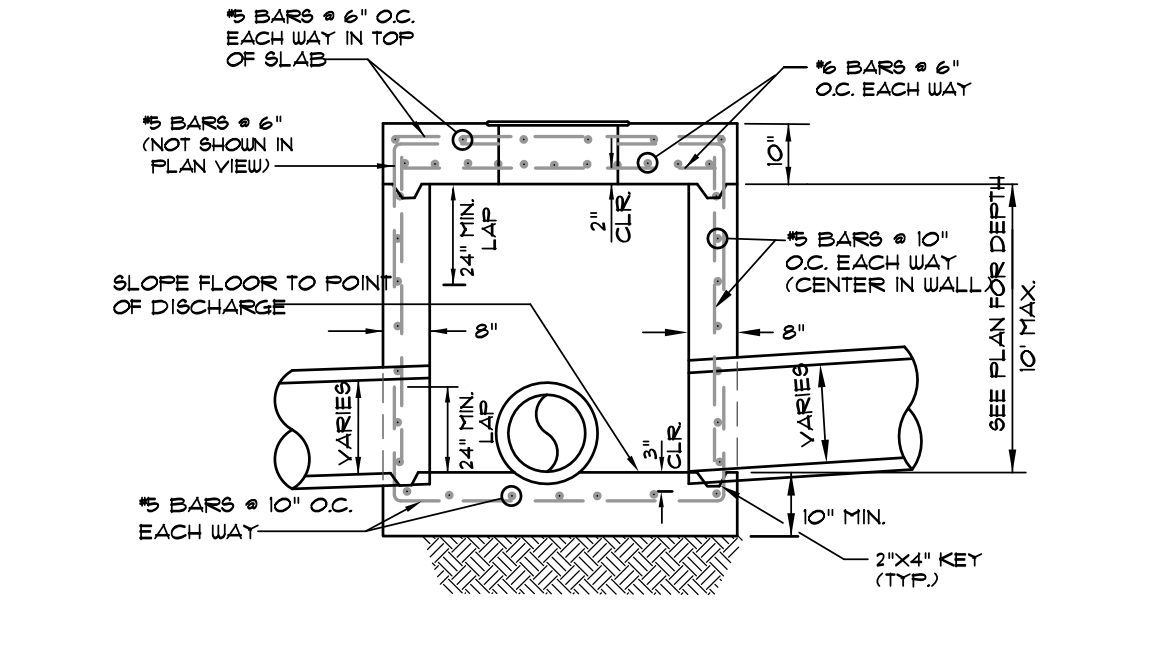
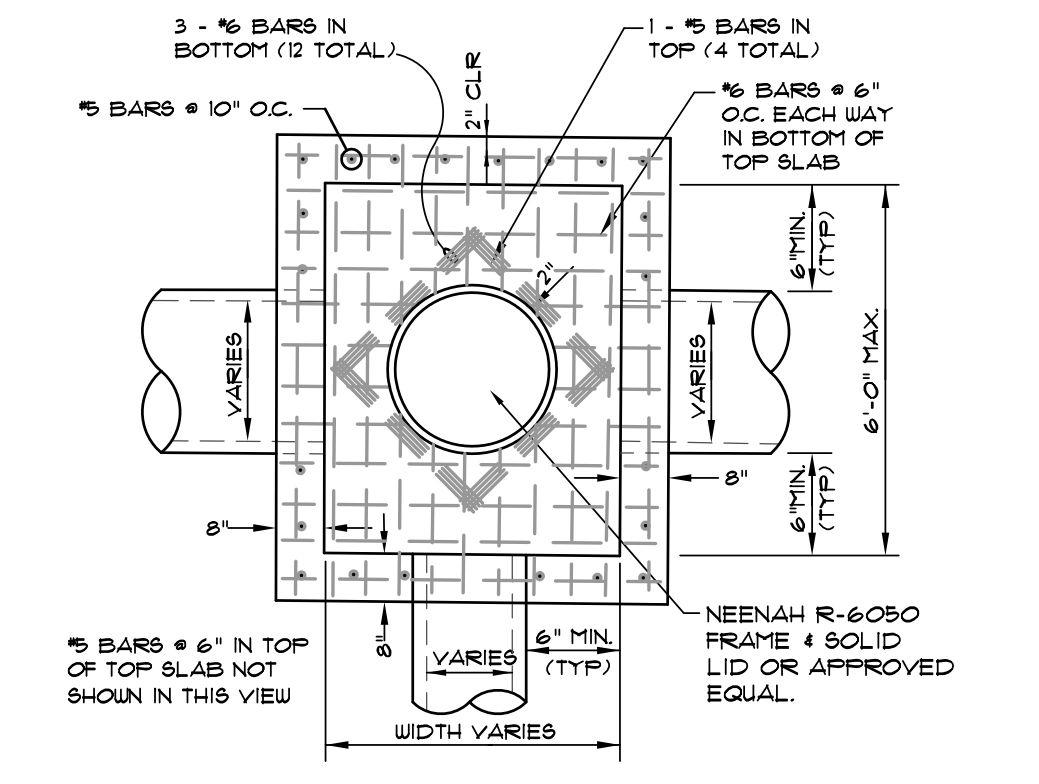
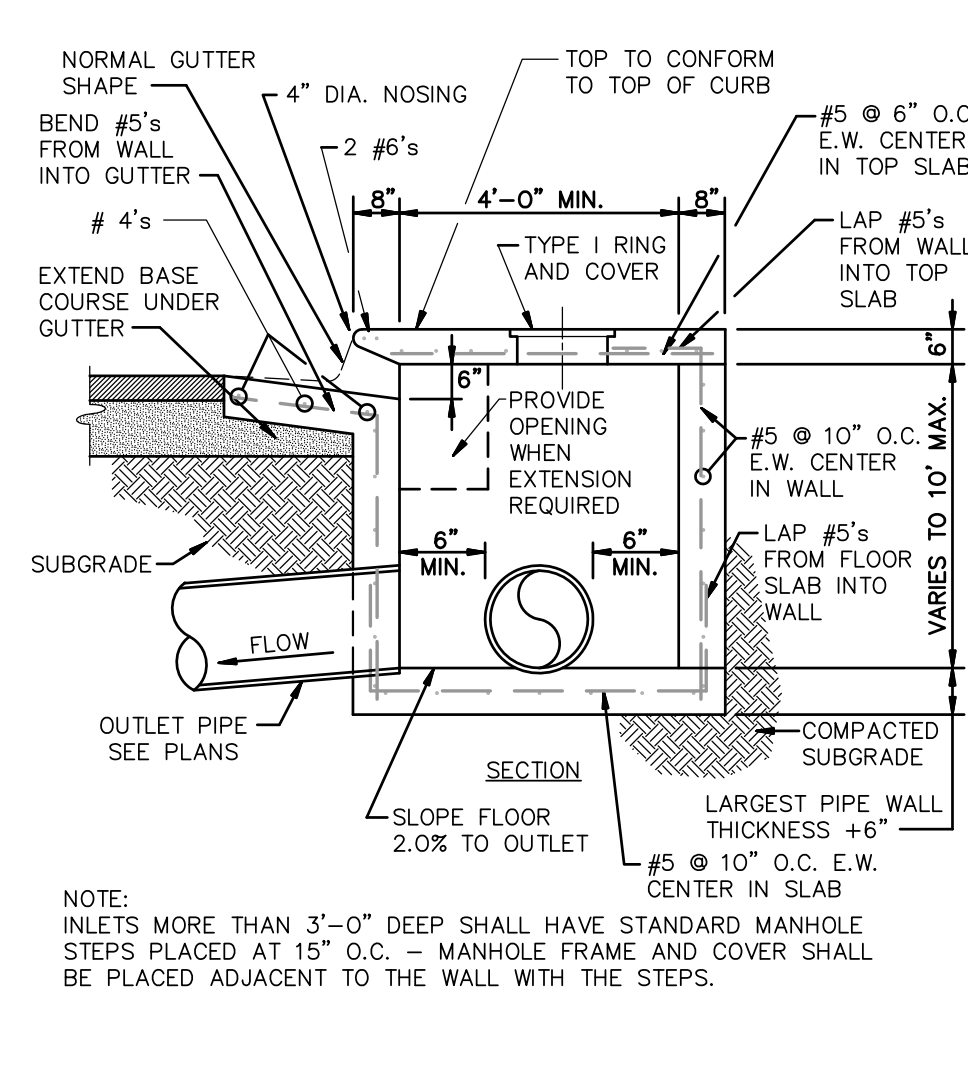
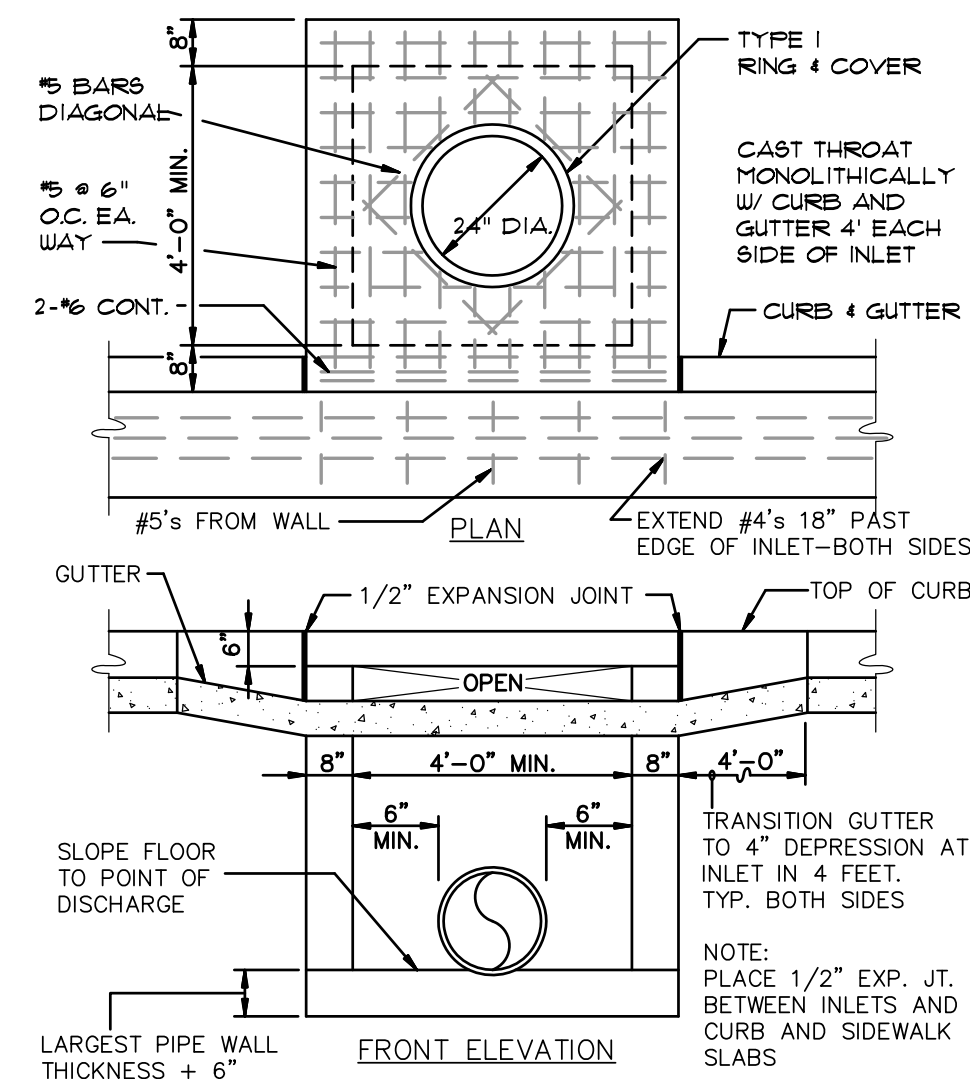
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NO.	DESCRIPTION	DATE

**STANDARD DETAILS**

DATE: 06/27/16 DRAWN: CCH  
CADD FILE: 15165-SDP CHECKED: JME  
DWG#: 0414104.000X SHEET  
SCALE: 1" = 40' 0010



NOTES:  
1. SHOULD BE USED TO ACCOMMODATE VEHICULAR TRAFFIC.  
2. JUNCTION BOXES MORE THAN 3 FEET DEEP SHALL HAVE STANDARD MANHOLE STEPS PLACED @ 15" O.C.  
3. SEE REINFORCING DETAIL FOR OPENING IN WALL OR SLAB.

**CURB INLET - TYPE "A"**  
(NOT TO SCALE)

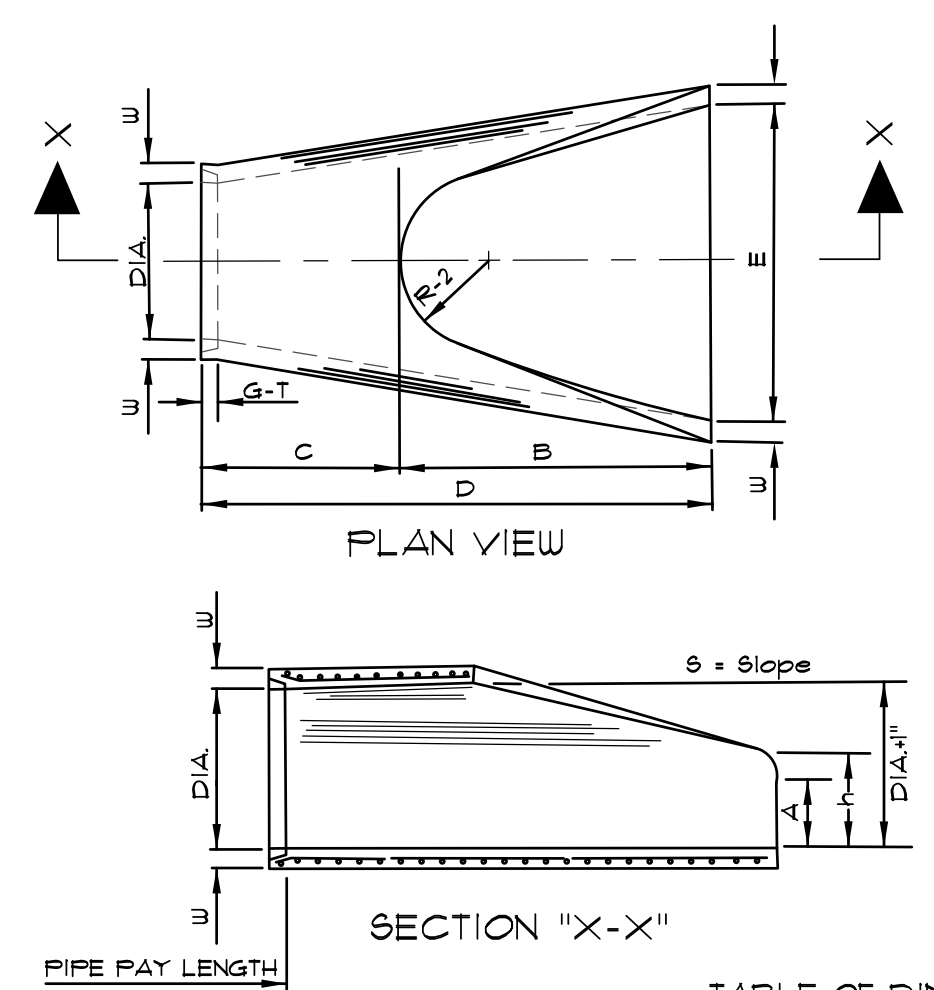
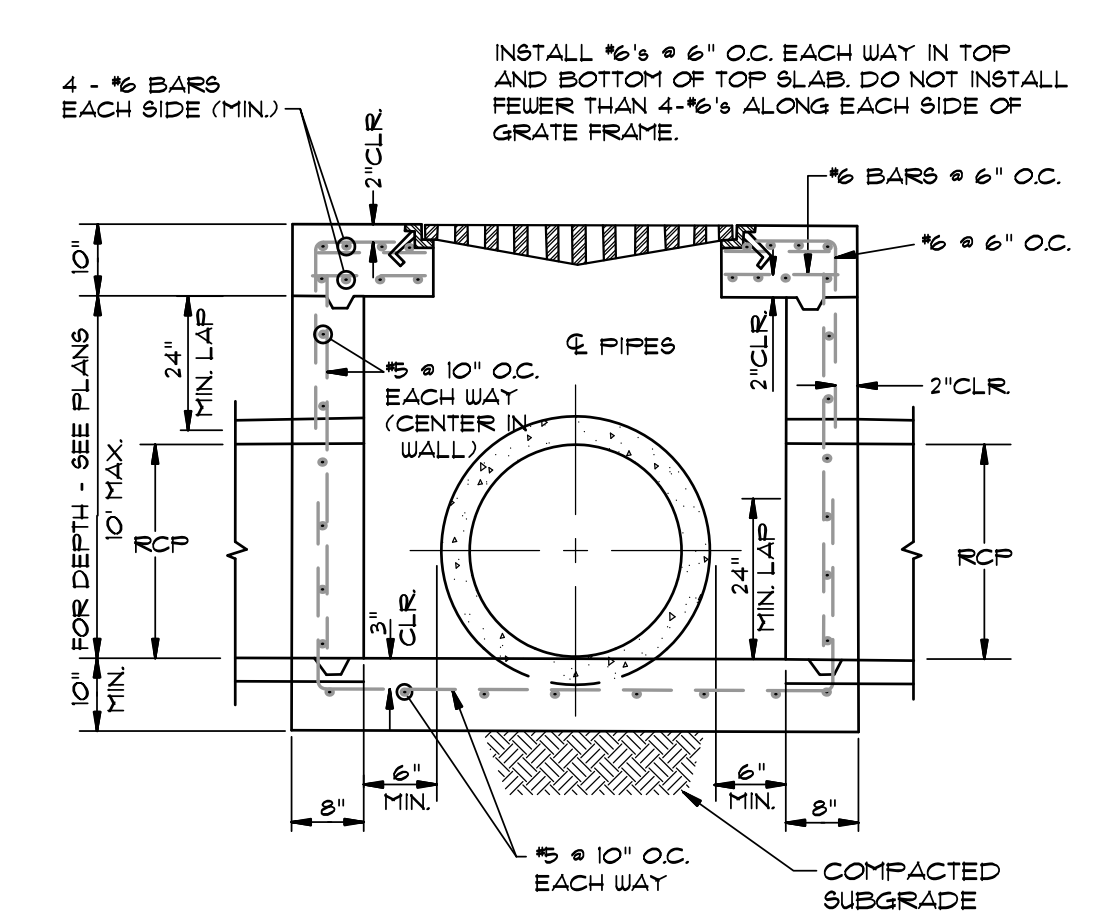
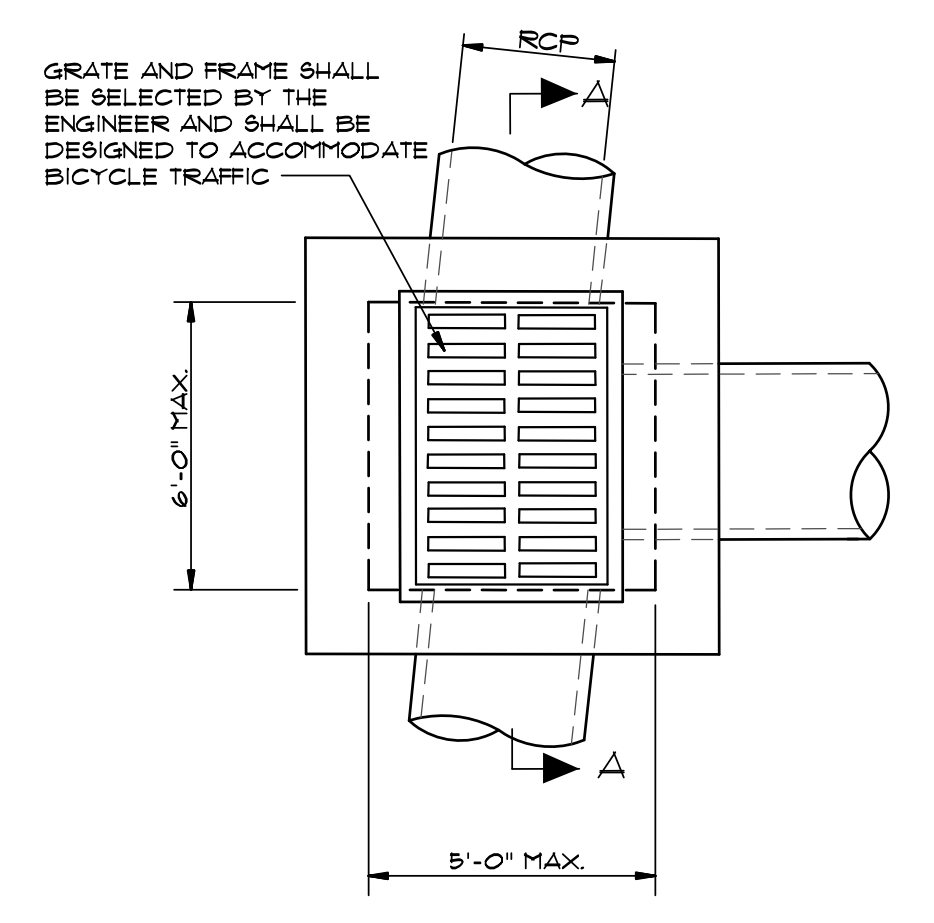


TABLE OF DIMENSIONS

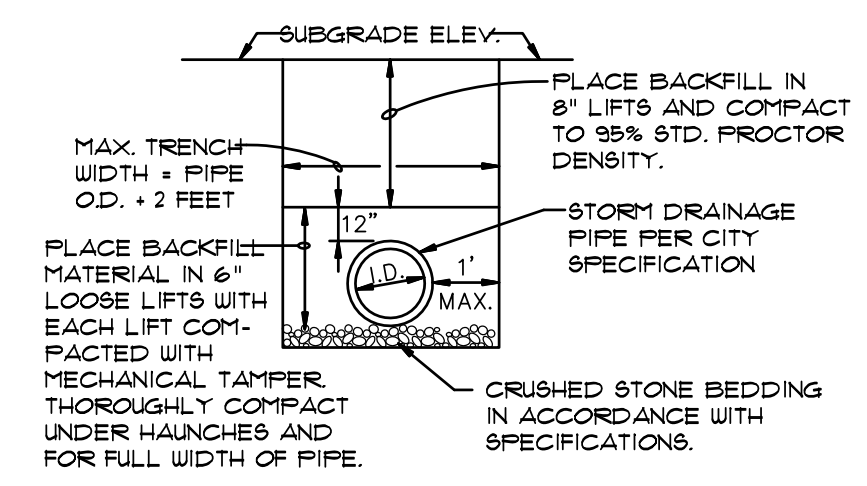
DIA.	WALL	A	B	C	D	E	S	DIA.+1"	P	R-1	R-2	G-T	WT	h
18"	2 1/2"	9"	2'-3"	3'-10"	6'-1"	3'-0"	3:1	19"	29"	15 1/2"	12"	2"	1000	1'-0 1/2"
24"	3"	9 1/2"	3'-7 1/2"	2'-6"	6'-1 1/2"	4'-0"	3:1	25"	33 3/16"	16 13/16"	14"	2 1/2"	1600	1'-1 1/2"
30"	3 1/2"	1'-0"	4'-6"	1'-7 3/4"	8'-1 3/4"	5'-0"	3:1	31"	37"	18 1/2"	15"	3 1/4"	1940	1'-4 5/8"
36"	4"	1'-3"	5'-3"	2'-10 3/4"	8'-3 3/4"	6'-0"	3:1	39"	47 13/16"	24 5/16"	20"	3 1/2"	4100	1'-8"
42"	4 1/2"	1'-9"	5'-3"	2'-11"	8'-2"	6'-6"	3:1	43"	53 7/8"	27 1/2"	22"	3 1/2"	5380	2'-2 1/2"
48"	5"	2'-0"	6'-0"	2'-2"	8'-2"	7'-0"	3:1	49"	56 1/2"	28 1/2"	22"	3 1/2"	6550	2'-6"
54"	5 1/2"	2'-4"	6'-8"	1'-10"	8'-4"	7'-8"	3:1	55"	65 1/2"	33 1/8"	24"	4"	8750	2'-10 1/2"
60"	6"	2'-10"	6'-8"	1'-10"	8'-4"	8'-0"	3:1	61"	72 1/2"	36 11/16"	24"	4"	9270	3'-5"
72"	7"	3'-10"	6'-8"	1'-10"	8'-4"	9'-0"	3:1	73"	77 13/16"	38 15/16"	24"	5"	13250	4'-6"

NOTES:  
1. THE PORTION OF THE R.C. CURTAIN WALL BENEATH THE FLARED END SECTION (LOWER 1'-0") SHALL BE PLACED MONOLITHICALLY. THE FLARED END SECTION SHALL THEN BE SET IN PLACE AND THE REMAINING PORTIONS OF THE R.C. CURTAIN WALL PLACED.  
2. ALL REINFORCING STEEL ARE #4 BARS AT 6" O.C.  
3. NO SEPARATE PAYMENT WILL BE MADE FOR THE CURTAIN WALLS. THEY SHALL BE CONSIDERED SUBSIDIARY TO THE FLARED END SECTIONS.  
4. TONGUE END ON UPSTREAM SECTION. GROOVE END ON DOWNSTREAM SECTION.

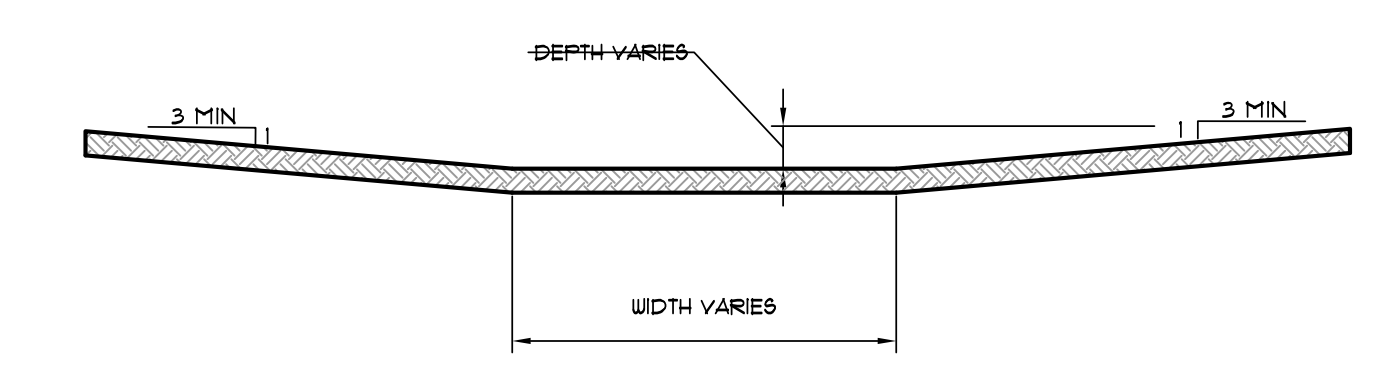
**FLARED END SECTION DETAILS FOR REINFORCED CONCRETE PIPE CULVERT**  
(NOT TO SCALE)



NOTES:  
1. SHOULD BE USED TO ACCOMMODATE VEHICULAR TRAFFIC.  
2. JUNCTION BOXES MORE THAN 3 FEET DEEP SHALL HAVE STANDARD MANHOLE STEPS PLACED @ 15" O.C.  
3. SEE REINFORCING DETAIL FOR OPENING IN WALL OR SLAB.

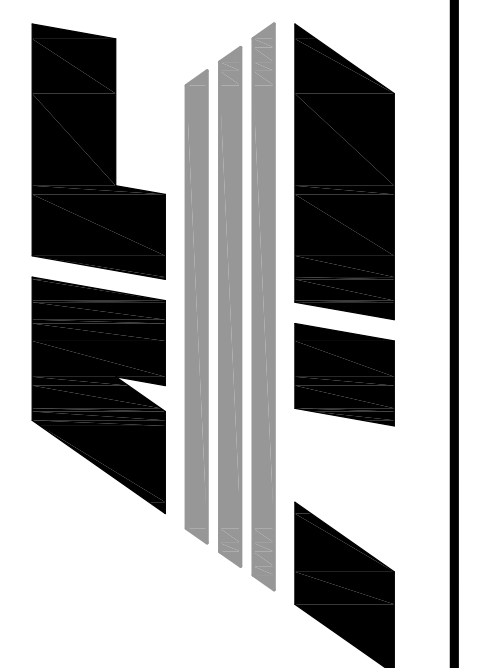


**DRAINAGE PIPE TRENCH DETAIL**  
NOTE: TO BE USED WITH NEW STREET CONSTRUCTION. SEE DRAWING NO. PT-1 FOR EXISTING STREET CUTS.



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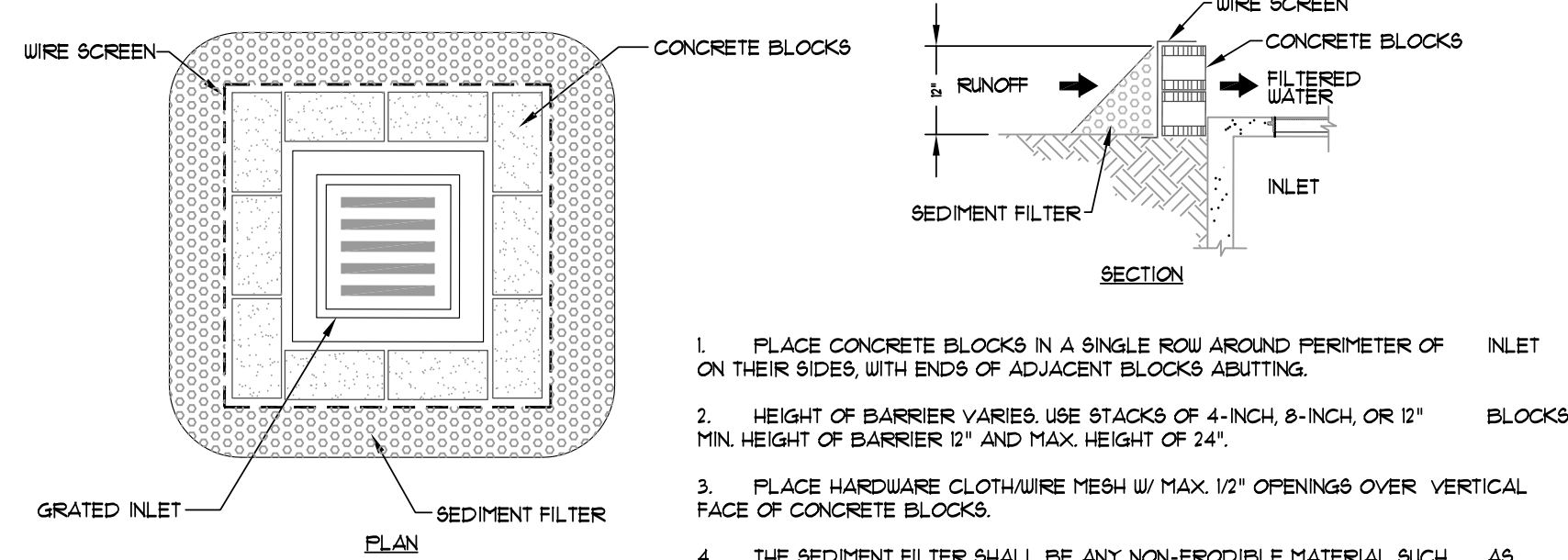
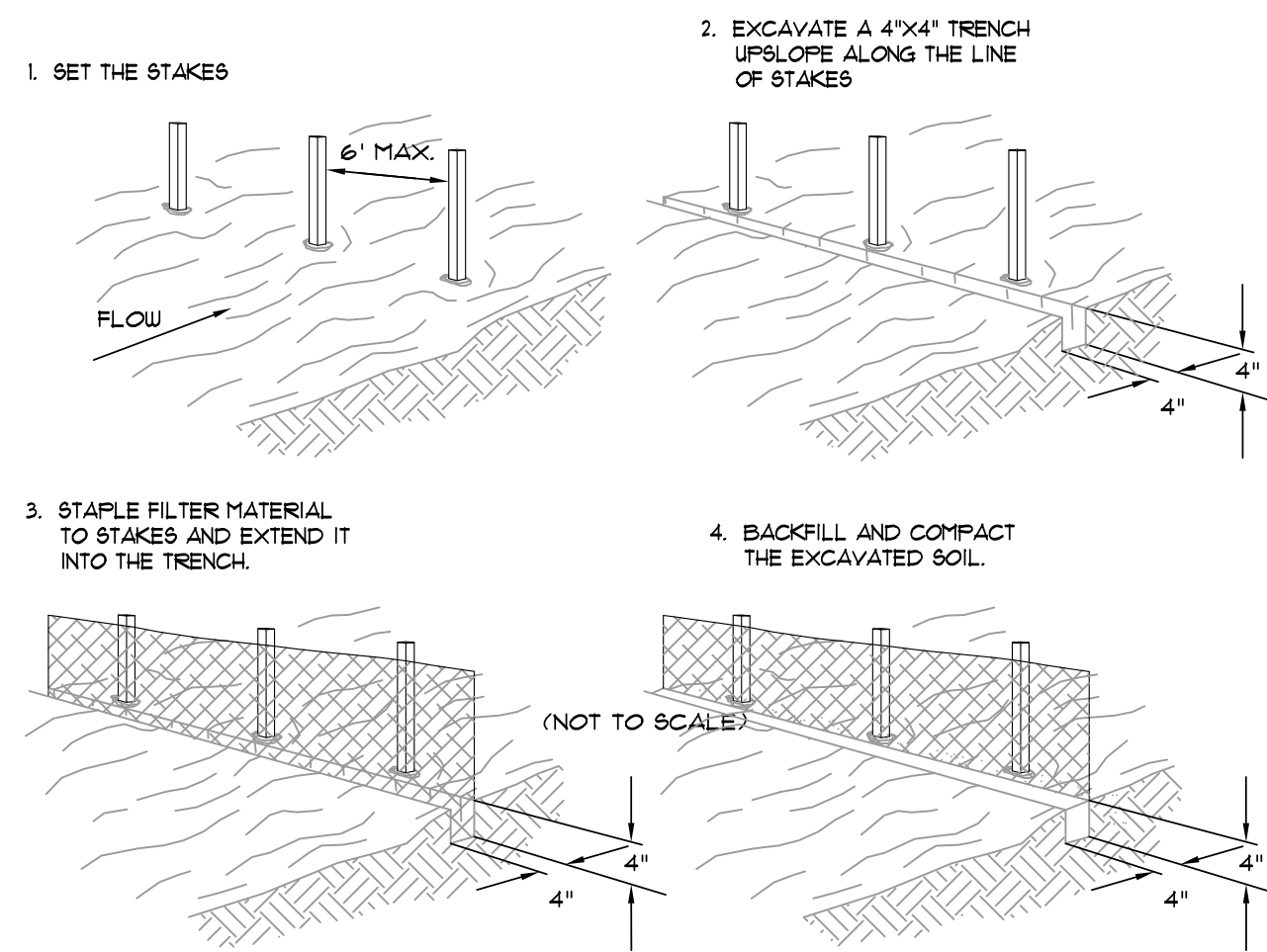
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NO.	DESCRIPTION	DATE

**STANDARD DETAILS**

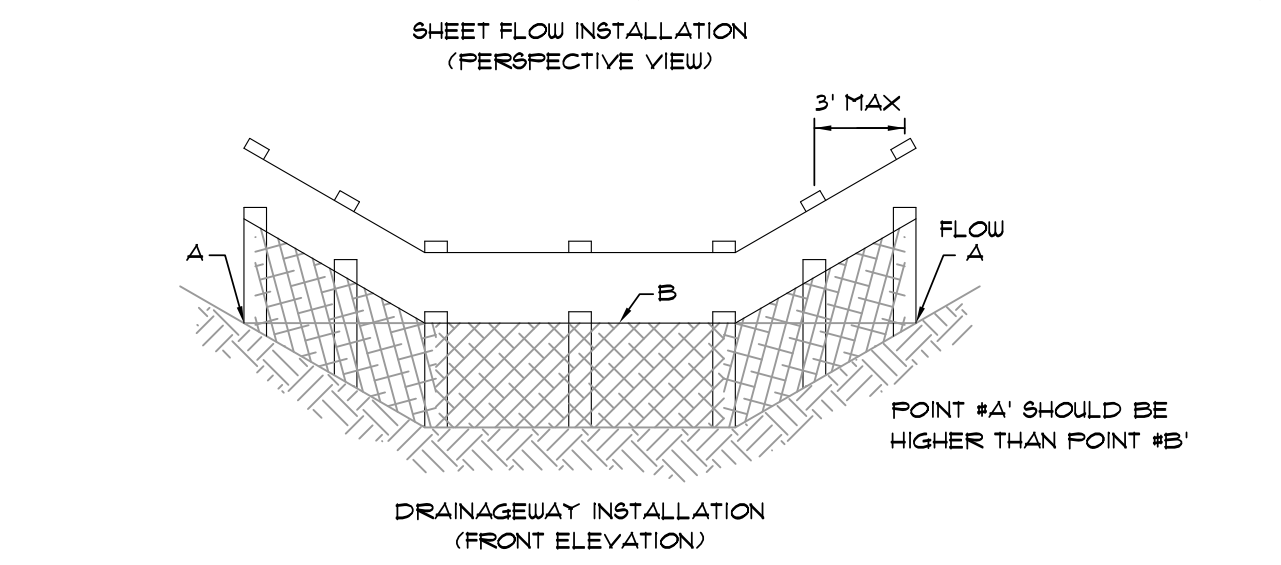
DATE: 06/27/16 DRAWN: CCH  
CADD FILE: 15165-SDP CHECKED: JME  
DWG#: 0414104.000X SHEET  
SCALE: 1" = 40' C011



1. PLACE CONCRETE BLOCKS IN A SINGLE ROW AROUND PERIMETER OF INLET ON THEIR SIDES, WITH ENDS OF ADJACENT BLOCKS ABUTTING.
2. HEIGHT OF BARRIER VARIES. USE STACKS OF 4-INCH, 8-INCH, OR 12" BLOCKS. MIN. HEIGHT OF BARRIER 12" AND MAX. HEIGHT OF 24".
3. PLACE HARDWARE CLOTH/WIRE MESH W/ MAX. 1/2" OPENINGS OVER VERTICAL FACE OF CONCRETE BLOCKS.
4. THE SEDIMENT FILTER SHALL BE ANY NON-ERODIBLE MATERIAL SUCH AS LOOSE ROCK, BROKEN CONCRETE THAT WILL SLOW THE FLOW OF THE WATER AND ALLOW IT TO FILTER THROUGH AND OVER THE MATERIAL BEFORE ENTERING THE INLET.

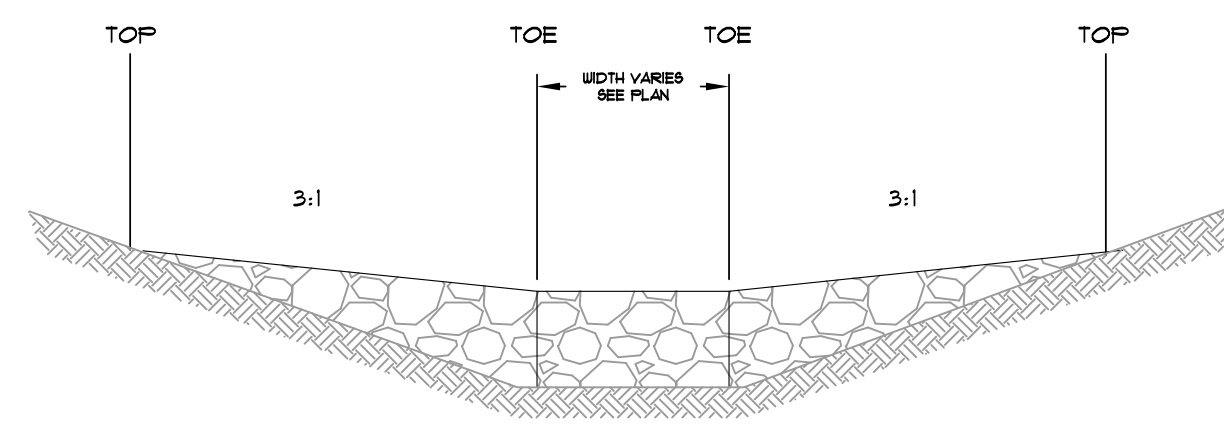
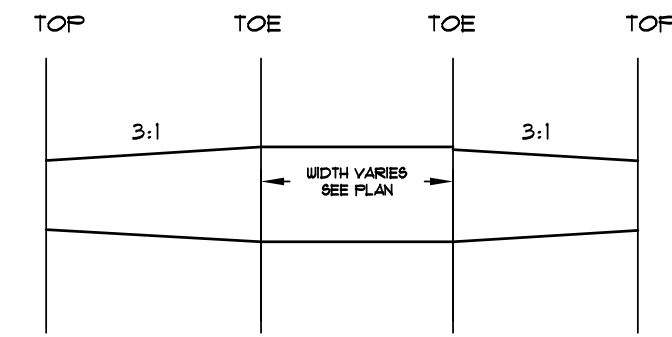
**BLOCK AND AGGREGATE INLET SEDIMENT FILTER**

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



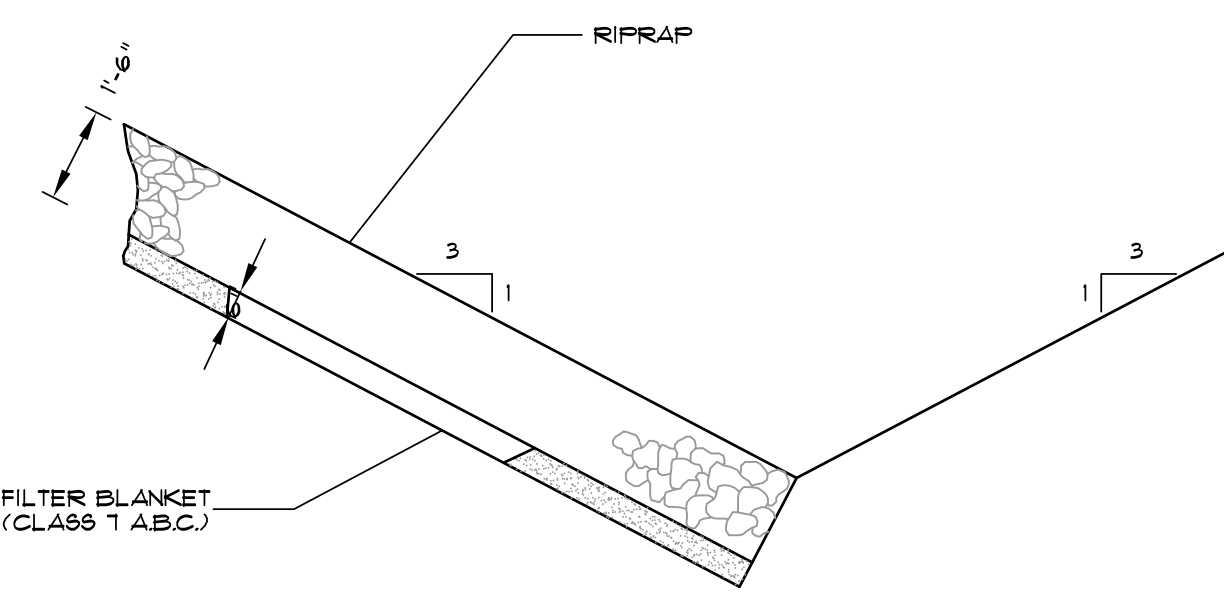
**FILTER BARRIER**

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



**GRAVEL TO BE 2"-3" STONE  
ROCK CHECK DAM**

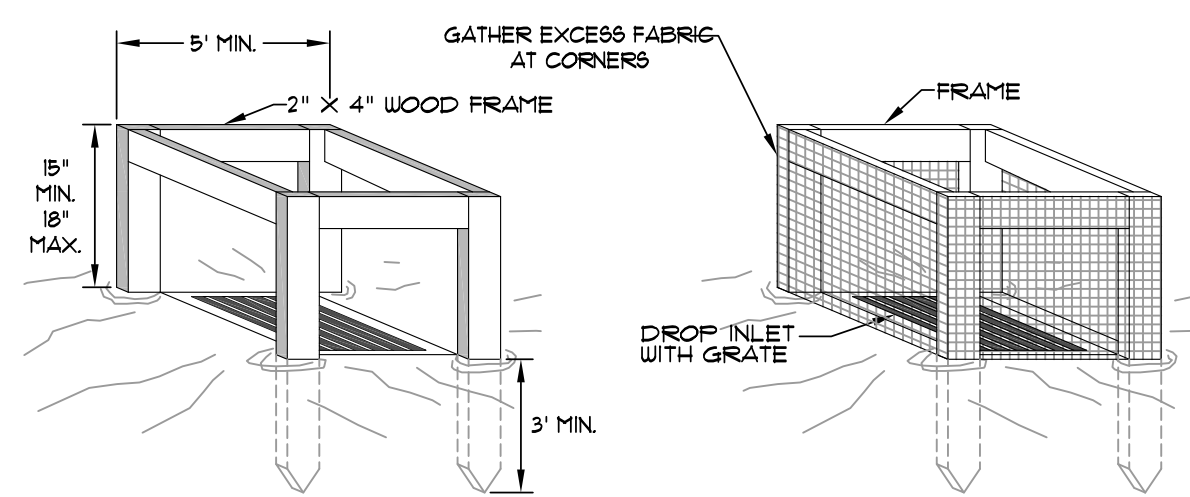
SCALE: 1/2" = 1'-0"



NOTE: IN LIEU OF AN AGGREGATE FILTER BLANKET, A SYNTHETIC FIBER GEOTEXTILE FABRIC MEETING THE REQUIREMENTS OF AASHTO M288 MAY BE USED. IN LIEU OF RIPRAP, AN EROSION CONTROL MAT MAY BE USED.

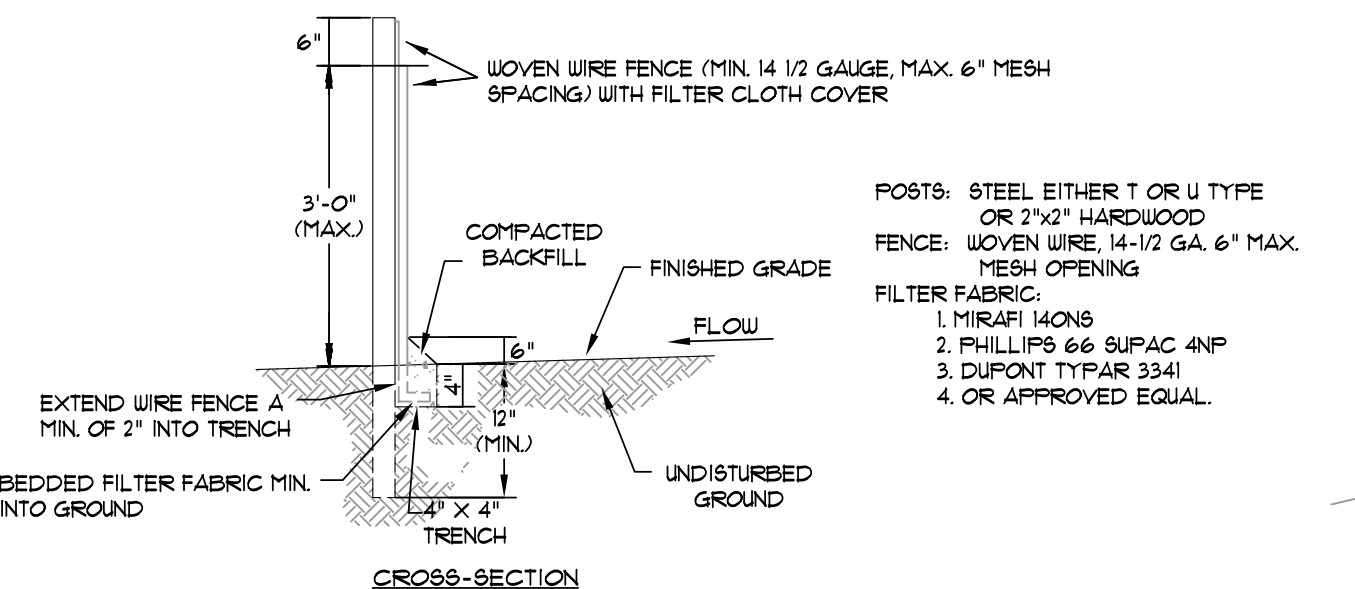
**SECTION - DUMPED RIPRAP**

TOE EXCAVATION IN SOIL



**SILT FENCE INLET PROTECTION**

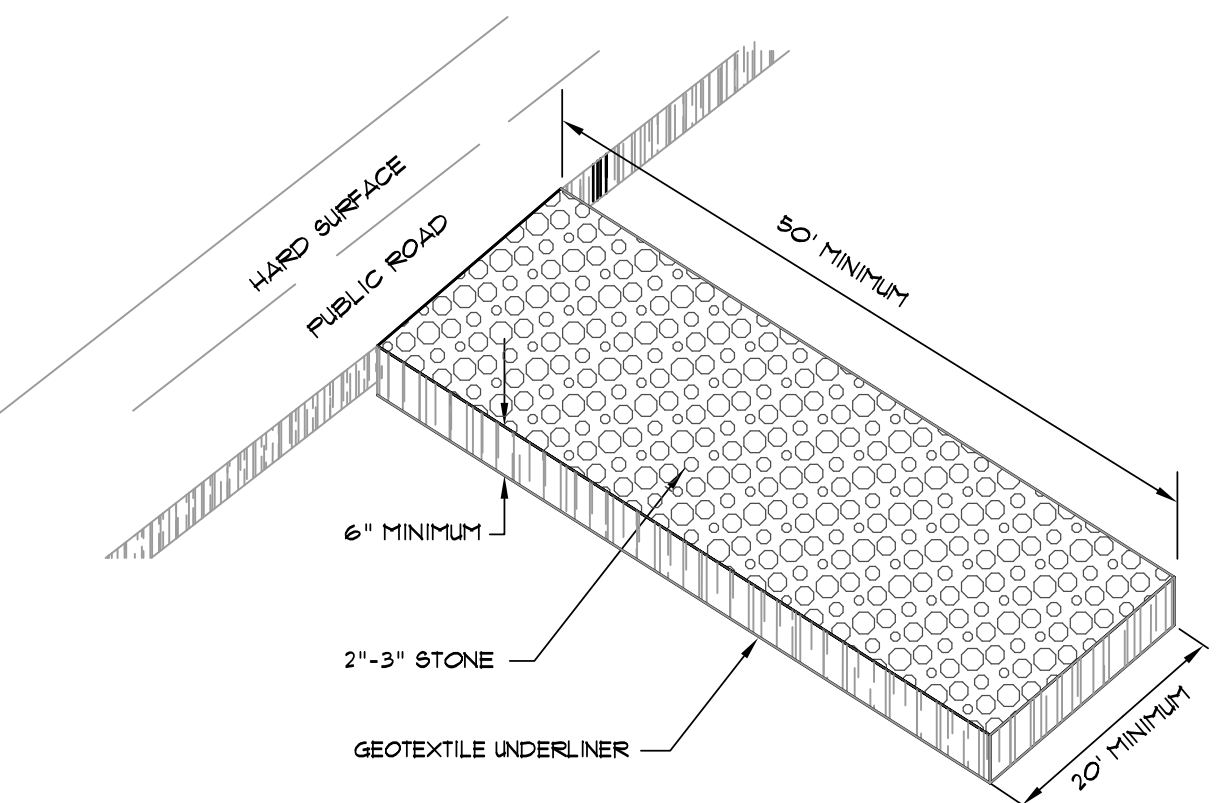
SCALE: 1/2" = 1'-0"



1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH 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.

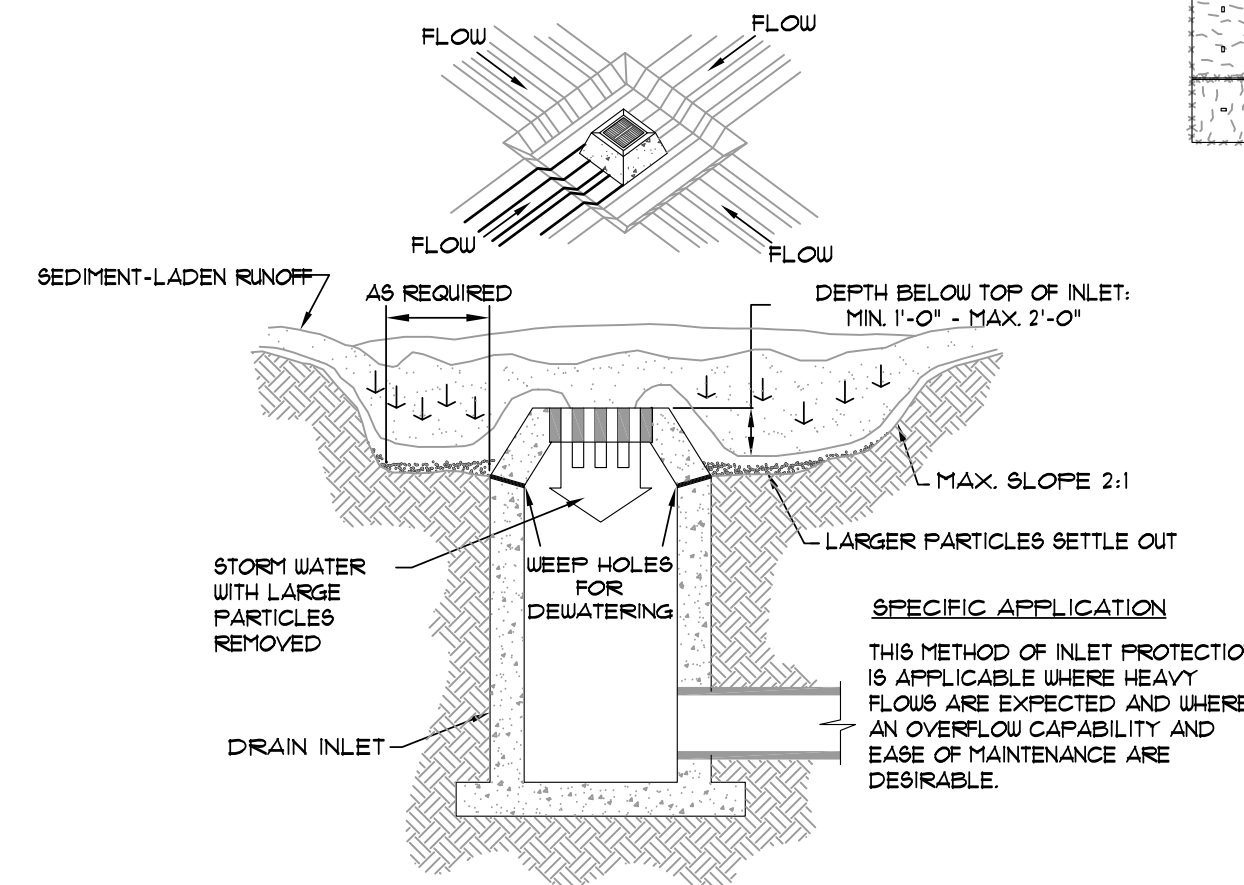
**SILT FENCE**

NOT TO SCALE



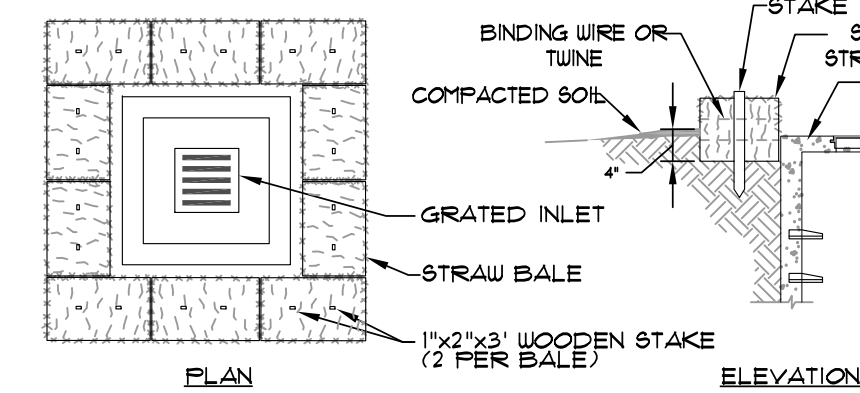
**CONSTRUCTION ENTRANCE**

NOT TO SCALE



**EXCAVATED INLET SEDIMENT TRAP**

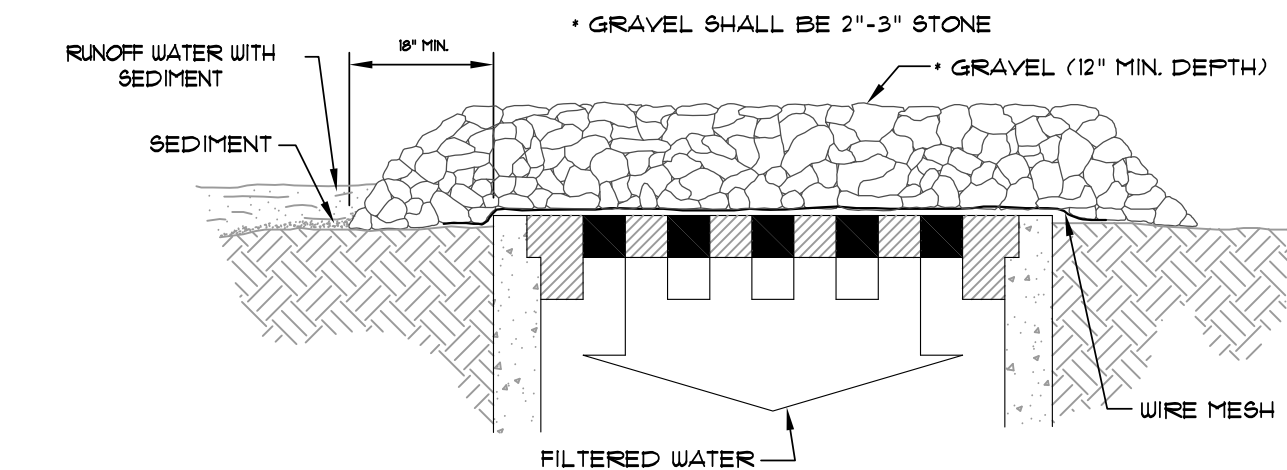
SCALE: 1/4" = 1'-0"



**STRAW BALE INLET SEDIMENT FILTER**

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

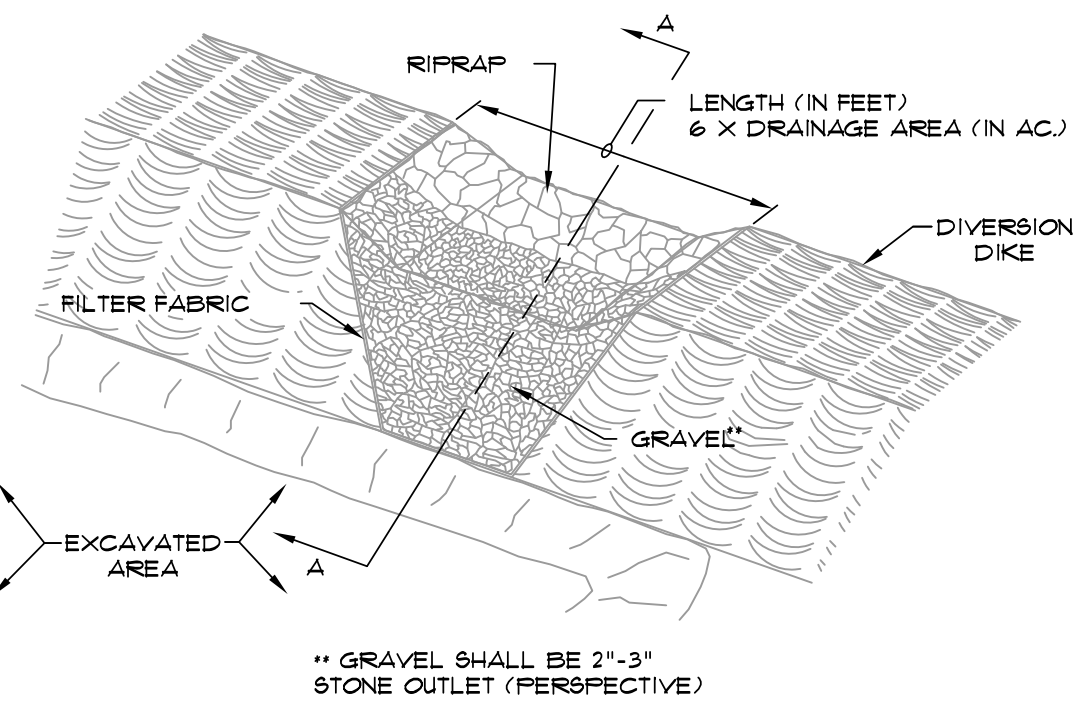
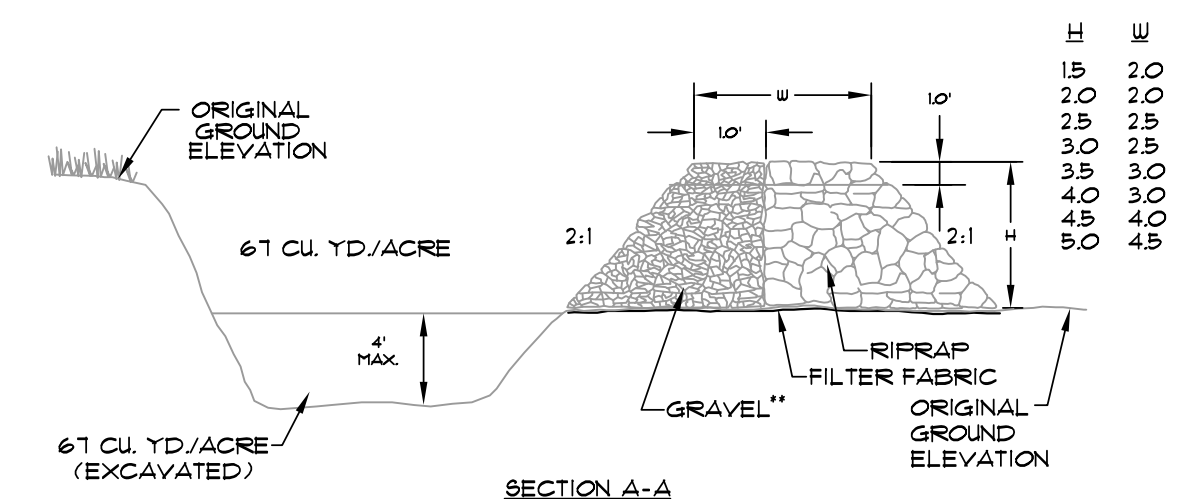
- GENERAL NOTES:
1. BALES SHALL BE EITHER WIRE-BOUND OR STRING-TIED WITH THE ENDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.
  2. BALES SHALL BE PLACED LENGTHWISE IN A SINGLE ROW SURROUNDING THE INLET WITH ENDS OF ADJACENT BALES PRESSED TOGETHER.
  3. THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED AROUND THE INLET THE WIDTH OF A BALE TO A MINIMUM DEPTH OF 4 INCHES. AFTER THE BALES ARE STAKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER.
  4. EACH BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE.
  5. LOOSE STRAW SHALL BE WEDGED BETWEEN BALES TO PREVENT WATER FROM ENTERING BETWEEN BALES.



**GRAVEL AND WIRE MESH INLET SEDIMENT FILTER**

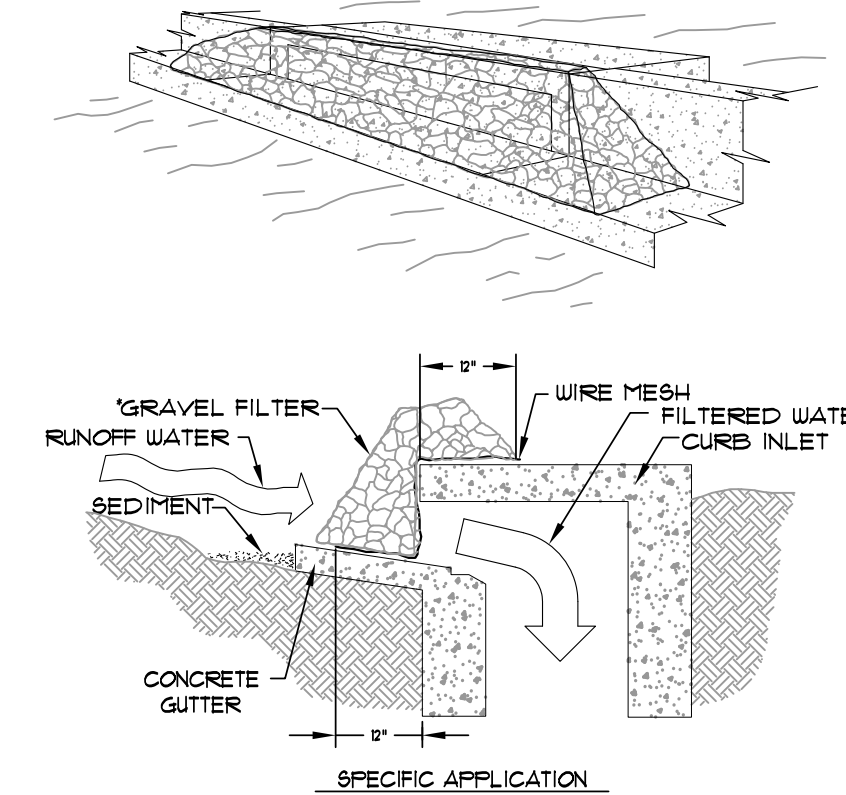
SCALE: 1/2" = 1'-0"

SPECIFIC APPLICATION  
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE FLOODING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.



**TEMPORARY SEDIMENT TRAP**

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

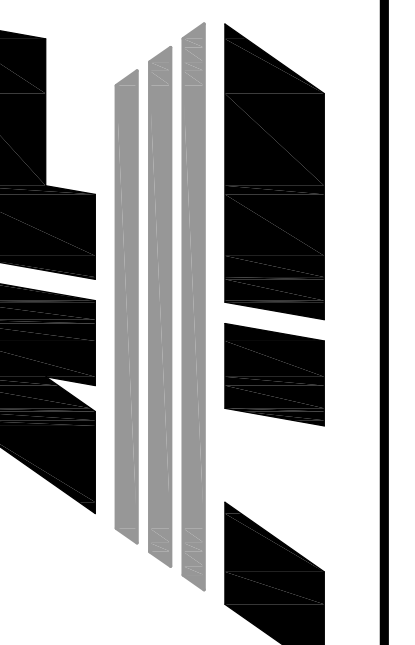


**GRAVEL CURB INLET SEDIMENT FILTER**

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

**FIRST NATIONAL BANK**  
3500 EAST JOHNSON AVENUE  
HUT. 49 & HUT. 351  
JONESBORO, ARKANSAS

**ASSOCIATED ENGINEERING, LLC**  
CIVIL ENGINEERING • LAND SURVEYING  
LAND PLANNING  
103 SOUTH CHURCH STREET • P.O. BOX 1462  
JONESBORO, AR 72403  
PH: 870-932-3594 • FAX: 870-935-1263



NO.	DESCRIPTION	DATE

**EROSION CONTROL DETAILS**

DATE: 06/27/16	DRAWN: CCH
CADD FILE: 15165-SDP	CHECKED: JME
DWG# 0414104.000X	SHEET
SCALE: 1" = 40'	C012