

LARGE SCALE DEVELOPMENT PLANS

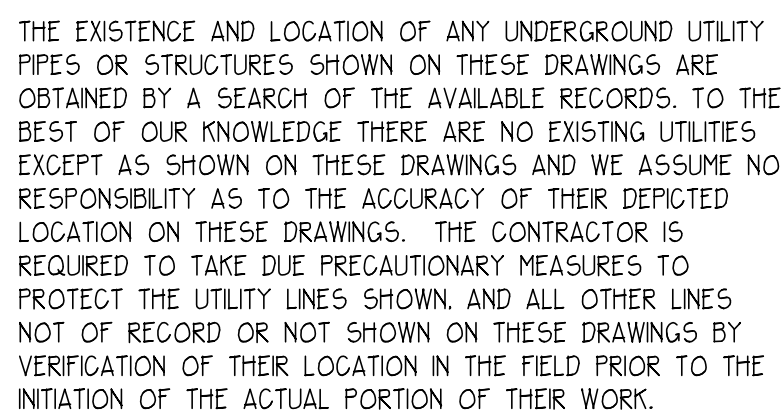
01 COVER SHEET
02 EXISTING SITE PLAN
03 SITE + UTILITY PLAN
04 GRADING + EROSION CONTROL PLAN
05 LANDSCAPE PLAN
06-08 DETAILS

1. 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 ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RELOCATE UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
2. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION.
3. EXISTING GRADE CONTOURS ARE AT ONE FOOT INTERVALS.
4. PROPOSED CONTOURS ARE AT FINISH GRADE AND ARE AT ONE FOOT INTERVALS.
5. PROPOSED SLOPE ELEVATIONS ARE TOP OF FINISH CURB UNLESS OTHERWISE INDICATED OR SHOWN.
6. THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS AS OUTLINED IN THE STORMWATER POLLUTION PREVENTION PLAN.
7. CONTRACTOR TO INSTALL MUD ABATEMENT ENTRANCES ANYWHERE PROPOSED STREETS ENTER EXISTING PUBLIC STREETS. ENTRANCE TO BE CONSTRUCTED A MIN. OF 50' IN LENGTH BY WIDTH OF PROPOSED STREET AND TO A DEPTH OF 8 INCHES.
8. CONTRACTOR TO INSTALL EROSION CONTROL FENCING PRIOR TO BEGINNING ANY CONSTRUCTION. FENCING SHALL BE MAINTAINED & REPAIRED AS NECESSARY BY THE CONTRACTOR DURING CONSTRUCTION.
9. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
10. CONTRACTOR SHALL ADJUST AND/OR NEATLY CUT EXISTING PAVEMENT TO ASSURE A SMOOTH FIT AND TRANSITION.
11. ALL CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH OF 3500 PSI.
12. DAMAGE DURING CONSTRUCTION TO ANY EXISTING STRUCTURES TO REMAIN SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE.
13. THE CONSTRUCTION AND INSTALLATION OF WATER AND SANITARY SEWER UTILITIES SHALL BE IN COMPLIANCE WITH THE CITY OF TONTONWATER AND SEWER SPECIFICATIONS, PROCEDURES AND DETAILS.
14. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE CITY OF TONTONWATER'S REQUIREMENTS. IN THE CASE OF CONFLICTS, THE CITY'S CRITERIA SHALL GOVERN.
15. ALL SIDEWALKS AND HANDICAP RAMPS SHALL BE BUILT TO THE CURRENT STANDARDS OF THE AMERICANS WITH DISABILITIES ACT REQUIREMENTS.

THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICES, IS THE PROPERTY OF BATES + ASSOCIATES, INC., AND IS NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF BATES + ASSOCIATES, INC.

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

THE DUTY OF THE ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, OR NEAR THE CONSTRUCTION SITE.



Signed: _____
Recorder/Treasurer, City of Tontitown

FRONT SETBACK (WITH PARKING)	50 FEET
FRONT SETBACK (WITHOUT PARKING)	20 FEET
SIDE SETBACK (ADJACENT TO NON-RESIDENTIAL)	7 FEET
SIDE SETBACK (ADJACENT TO RESIDENTIAL)	30 FEET
REAR SETBACK (ADJACENT TO NON-RESIDENTIAL)	20 FEET
REAR SETBACK (ADJACENT TO RESIDENTIAL)	30 FEET

<u>CITY OF TONTITOWN</u> <u>PLANNING & BUILDING</u>	<u>TELEPHONE</u>
CONTACT: PAT PIANALTO 201 E. HENRI DE TONTI TONTITOWN, AR 72770 PHONE: 479-361-2996	AT&T CONTACT: SUSAN CLOUSER P.O. BOX 7449 SPRINGDALE, AR. 72766 PHONE: 479-442-3107 FAX: 479-442-3117

CONTACT: JAMES CLARK
201 E. HENRI DE TONTI
TONTITOWN, AR 72770
PHONE: 479-361-2996
FAX: 501-421-8774

OZARKS ELECTRIC
P.O. BOX 848
FAYETTEVILLE, AR. 72702
PHONE: 800-521-6144
FAX: 479-684-4617

TELEPHONE
AT&T
CONTACT: SUSAN CLOUSER
P.O. BOX 7449
SPRINGDALE, AR. 72766
PHONE: 479-442-3107
FAX: 479-442-3117

SOURCEGAS
CONTACT: DAVID JACKSON
1811 EAST BORICK DR.
FAYETTEVILLE, AR. 72701
PHONE: 479-263-3923

CABLE

COX COMMUNICATIONS
CHAD HODGE
4901 SOUTH 48TH ST
SPRINGDALE, AR 72762
PHONE: 479-717-3607

TOTAL LOADING SPACES REQUIRED
FOR 5,000-25,000 SQ FT BUILDING:

TOTAL LOADING SPACES PROVIDED:

NO PORTION OF THIS PROPERTY IS LOCATED WITHIN FLOOD ZONE
"A" OR "AE" AS DETERMINED BY THE NATIONAL FLOOD (FIRM
PANEL #05143C0045F, DATED MAY 16, 2008) INSURANCE
PROGRAM FLOOD INSURANCE RATE MAP FOR WASHINGTON COUNTY,
ARKANSAS.

LOTS 5, TONTITOWN PLAZA, A SUBDIVISION TO THE CITY OF TONTITOWN, WASHINGTON COUNTY, ARKANSAS, AS SHOWN ON PLAT OF RECORD IN PLAT BOOK 23 AT PAGE 287, PLAT RECORDS OF WASHINGTON COUNTY, ARKANSAS.

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

TONTITOWN GPS MONUMENT #6
N: 678478.68
E: 649416.47
ELEV: 1278.55

THERE ARE NO EXISTING WETLANDS ON THIS SITE.

PROJECT SITE ADDRESS: 1167 FLORENCE AVE
TONTITOWN, ARKANSAS 72761

PARCEL: #830-38666-000

ACREAGE: 1.27

ZONING CLASSIFICATION: C-2

PROPOSED USE: OFFICE / WAREHOUSE

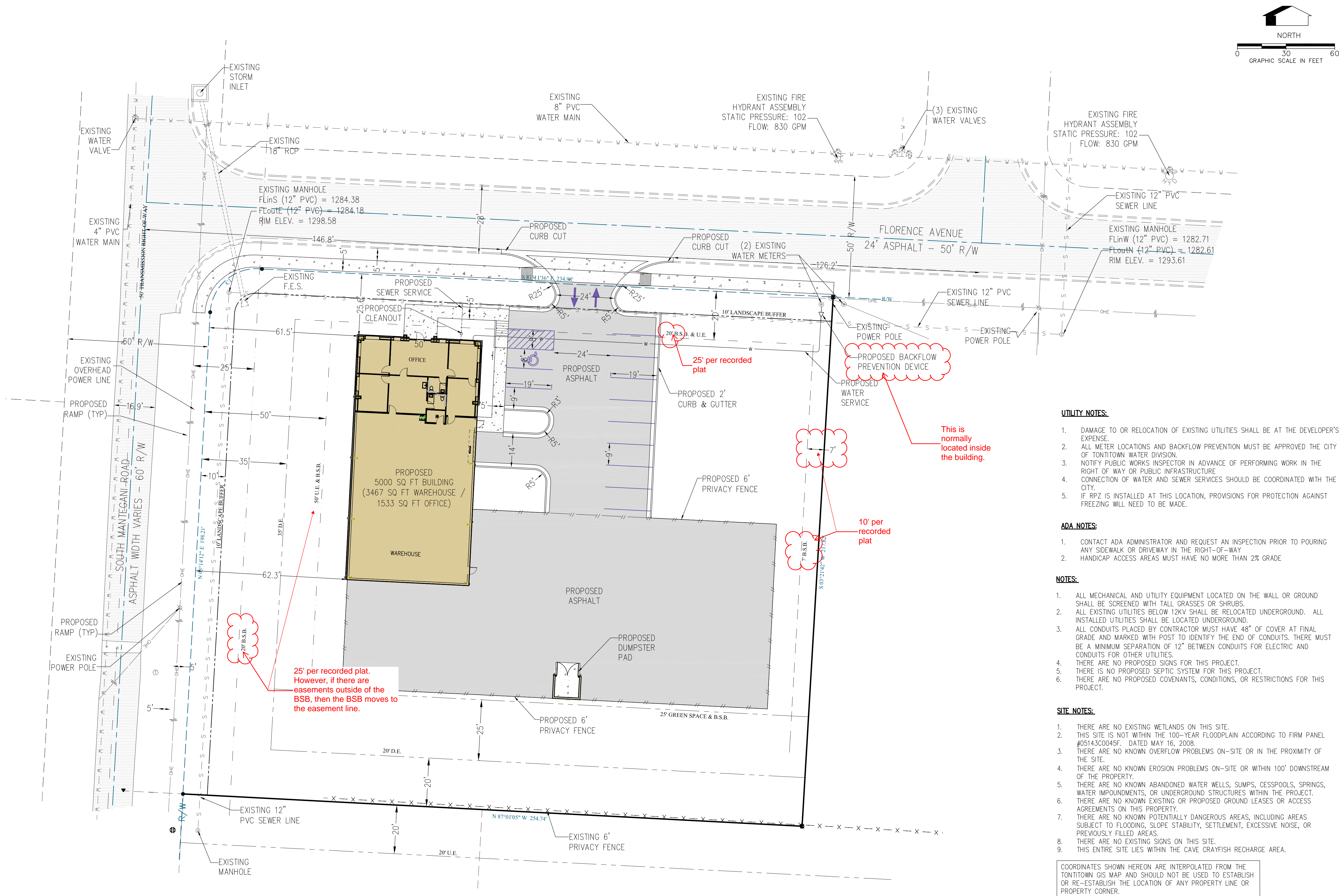
OWNER: NTF INVESTMENTS LLC
1393 N JEAN FAY
FAYETTEVILLE, AR 72704

DEVELOPER: CENTRAL ELECTRICAL CONTRA
P.O. BOX 122
SPRINGDALE, AR 72765
PHONE: (479) 751-4674
FAX: (479) 751-7477

ARCHITECT: DAVE BURRIS
MANDOL BURRIS ARCHITECTU
300 N 2ND ST, SUITE A
ROGERS, AR 72756
PHONE: (479) 636-3531

ENGINEER/SURVEYOR: BATES & ASSOCIATES, INC.
91 W. COLT SQUARE SUITE 3
FAYETTEVILLE, AR 72703
PHONE: (479) 442-9350
FAX: (479) 521-9350

PROPOSED	EXISTING	DESCRIPTION
		ASPHALT (EDGE)
		ASPHALT (SURFACE)
		BOLLARD
		BUILDING
		BUILDING SETBACK LINE
		CABLE TV (UNDERGROUND)
		CABLE TV (OVERHEAD)
		CONCRETE (EDGE)
		CONCRETE (SURFACE)
		CONDUIT
		CONTOURS
		CURB & GUTTER
		DRAINAGE FLOW
		DUMPSTER
		EASEMENT
		ELECTRICAL (UNDERGROUND)
		ELECTRICAL (OVERHEAD)
		ELECT. TRANSFORMER
		EROSION CONTROL BALES
		EROSION CONTROL FENCE
		EROSION CONTROL RIP-RAP
		FENCE (WIRE/WOOD/CHAIN)
		FIBER OPTIC CABLE
		FIRE HYDRANT ASSEMBLY
		FLOWLINE
		FORCE MAIN
		GAS MAIN
		GAS METER/VALVE
		GRAVEL (EDGE)
		GRAVEL (SURFACE)
		IRON PIN - (RE-BAR)
		LANDSCAPE EDGING
		LIGHT
		MONUMENT (CONCRETE)
		POND
		POWER POLE
		PROPERTY LINE (EXTERNAL)
		RETAINING WALL
		RIGHT-OF-WAY
		SANITARY SEWER MANHOLE
		SANITARY SEWER PIPE
		SANITARY SEWER SERVICE
		CENTERLINE
		SIDEWALK
		STOP SIGN / FLAG POLE
		SPOT ELEVATION
		STABILIZED CONSTRUCTION ENT.
		STORM INLET
		STORM SEWER PIPE
		STRIPES (PAINTED OR STICKY)
		TELEPHONE PED/MANHOLE
		TELEPHONE (UNDERGROUND)
		TELEPHONE (OVERHEAD)
		TREE LINE CANOPY
		TREE/TREE TO BE REMOVED
		WATER MAIN BLOWOFF VALVE
		WATER MAIN FIRE DEPT. CONN.
		WATER MAIN PIPE
		WATER MAIN REDUCER
		WATER MAIN THRUST BLOCK
		WATER METER
		WATER METER (IRRIGATION)
		WATER VALVE



This Large Scale Development has been reviewed for general compliance with the City of Tontitown Zoning and Planning Ordinances. Oversight of any regulations does not relieve the Owner of their responsibility to comply with all regulations.

Terry W. Carpenter, P.E.
Tontitown City Engineer, July 23, 2015



UTILITY NOTES:

- DAMAGE TO OR RELOCATION OF EXISTING UTILITIES SHALL BE AT THE DEVELOPER'S EXPENSE.
- ALL METER LOCATIONS AND BACKFLOW PREVENTION MUST BE APPROVED THE CITY OF TONTITOWN WATER DIVISION.
- NOTIFY PUBLIC WORKS INSPECTOR IN ADVANCE OF PERFORMING WORK IN THE RIGHT OF WAY OR PUBLIC INFRASTRUCTURE.
- CONNECTION OF WATER AND SEWER SERVICES SHOULD BE COORDINATED WITH THE CITY.
- IF RPZ IS INSTALLED AT THIS LOCATION, PROVISIONS FOR PROTECTION AGAINST FREEZING WILL NEED TO BE MADE.

ADA NOTES:

- CONTACT ADA ADMINISTRATOR AND REQUEST AN INSPECTION PRIOR TO POURING ANY SIDEWALK OR DRIVEWAY IN THE RIGHT-OF-WAY.
- HANDICAP ACCESS AREAS MUST HAVE NO MORE THAN 2% GRADE.

NOTES:

- ALL MECHANICAL AND UTILITY EQUIPMENT LOCATED ON THE WALL OR GROUND SHALL BE SCREENED WITH TALL GRASSES OR SHRUBS.
- ALL EXISTING UTILITIES BELOW 12KV SHALL BE RELOCATED UNDERGROUND. ALL INSTALLED UTILITIES SHALL BE LOCATED UNDERGROUND.
- ALL CONDUITS PLACED BY CONTRACTOR MUST HAVE 48" OF COVER AT FINAL GRADE AND MARKED WITH POST TO IDENTIFY THE END OF CONDUITS. THERE MUST BE A MINIMUM SEPARATION OF 12" BETWEEN CONDUITS FOR ELECTRIC AND CONDUITS FOR OTHER UTILITIES.
- THERE ARE NO PROPOSED SIGNS FOR THIS PROJECT.
- THERE IS NO PROPOSED SEPTIC SYSTEM FOR THIS PROJECT.
- THERE ARE NO PROPOSED COVENANTS, CONDITIONS, OR RESTRICTIONS FOR THIS PROJECT.

SITE NOTES:

- THERE ARE NO EXISTING WETLANDS ON THIS SITE.
- THIS SITE IS NOT WITHIN THE 100-YEAR FLOODPLAIN ACCORDING TO FIRM PANEL #05143C0045F, DATED MAY 16, 2008.
- THERE ARE NO KNOWN OVERFLOW PROBLEMS ON-SITE OR IN THE PROXIMITY OF THE SITE.
- THERE ARE NO KNOWN EROSION PROBLEMS ON-SITE OR WITHIN 100' DOWNSTREAM OF THE PROPERTY.
- THERE ARE NO KNOWN ABANDONED WATER WELLS, SUMPS, CESSPOOLS, SPRINGS, WATER IMPOUNDMENTS, OR UNDERGROUND STRUCTURES WITHIN THE PROJECT.
- THERE ARE NO KNOWN EXISTING OR PROPOSED GROUND LEASES OR ACCESS AGREEMENTS ON THIS PROPERTY.
- THERE ARE NO KNOWN POTENTIALLY DANGEROUS AREAS, INCLUDING AREAS SUBJECT TO FLOODING, SLOPE STABILITY, SETTLEMENT, EXCESSIVE NOISE, OR PREVIOUSLY FILLED AREAS.
- THERE ARE NO EXISTING SIGNS ON THIS SITE.
- THIS ENTIRE SITE LIES WITHIN THE CAVE CRAYFISH RECHARGE AREA.

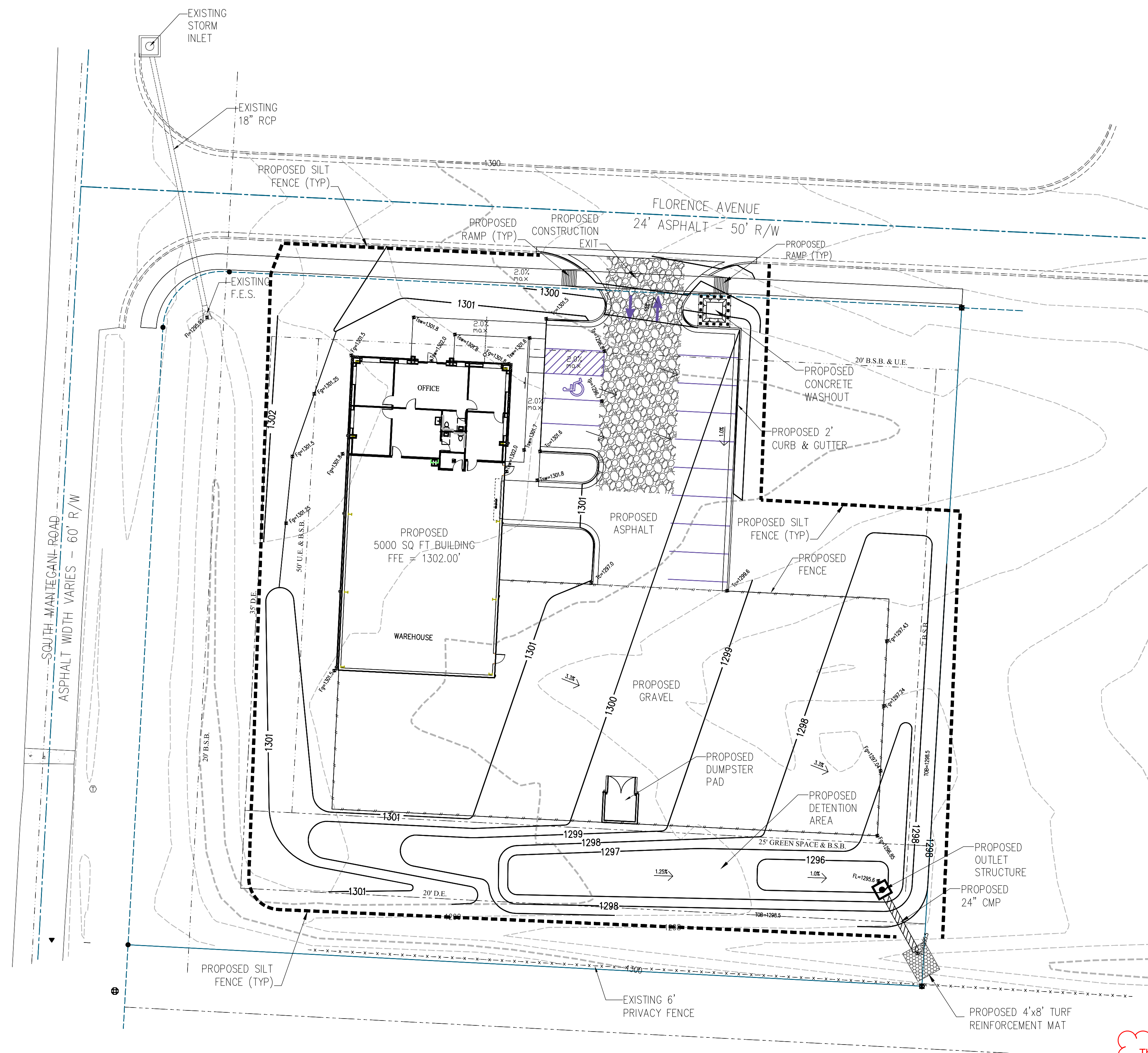
COORDINATES SHOWN HEREON ARE INTERPOLATED FROM THE TONTITOWN GIS MAP AND SHOULD NOT BE USED TO ESTABLISH OR RE-ESTABLISH THE LOCATION OF ANY PROPERTY LINE OR PROPERTY CORNER.

REVISIONS	DATE
FIRST SUBMITTAL	07/07/15
REVISIONS PER TECHNICAL REVIEW	07/22/15

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 9810
GEOFFREY H. BATES

CERTIFICATE OF AUTHORIZATION
BATES & ASSOCIATES, INC.
#335
ARKANSAS DRIVER

DRAWN BY: J. Young
ENGINEER: G. Bates
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REVEGETATION OF DISTURBED AREAS SHALL BE IN ACCORDANCE THE FOLLOWING:

- PERMANENT IMPROVEMENTS, PERMANENT IMPROVEMENTS SUCH AS STREETS, STORM SEWERS, CURB AND GUTTERS, AND OTHER FEATURES FOR CONTROL OF RUNOFF SHALL BE SCHEDULED CONCURRENTIAL TO REMOVING VEGETATIVE COVER FROM THE AREA SO THAT LARGE AREAS ARE NOT LEFT EXPOSED BEYOND THE CAPACITY OF TEMPORARY CONTROL MEASURES.
- TOP SOIL. TOP SOIL SHALL BE STOCKPILED AND PROTECTED FOR LATER USE ON AREAS REQUIRING LANDSCAPING. IF TOP SOIL OR OTHER SOIL IS TO BE STOCKPILED FOR MORE THAN 30 DAYS, A TEMPORARY COVER OF ANNUAL RYE OR OTHER SUITABLE GRASS SHALL BE PLANTED.
- EXISTING VEGETATION. EVERY MEANS SHALL BE TAKEN TO CONSERVE AND PROTECT EXISTING VEGETATION.
- SEDIMENT CONTROLS SHALL REMAIN IN PLACE UNTIL RE- VEGETATION IS ESTABLISHED UNLESS OTHERWISE ALLOWED BY THE CITY.
- 4:1 TO 3:1 GRADE: THE SLOPE SHALL BE COVERED WITH LANDSCAPE FABRIC AND HYDRO-SEEDING WITH MULCH AND FERTILIZER, OR STAKED SO, OR GROUND COVER. SAID PLANTING SHALL PROVIDE COMPLETE AND UNIFORM COVERAGE IN NO MORE THAN TWO GROWING SEASONS.

1. ALL AREAS UNDER BUILDINGS AND PAVED AREAS SHALL BE STRIPPED OF TOPSOIL. THE RESULTING SUB GRADE SHALL BE THOROUGHLY COMPACTED. ANY SOFT OR YIELDING AREAS SHALL BE STABILIZED OR REMOVED AND REPLACED WITH SUITABLE MATERIAL.

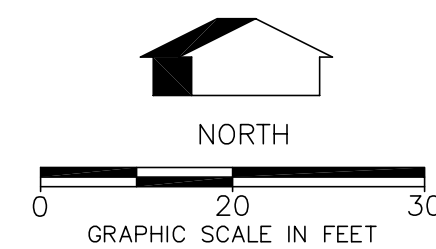
2. FILL MATERIAL SHALL BE APPROVED BY THE ENGINEER. ALL FILL SHALL BE MADE IN LIFTS NOT EXCEEDING 8" THICKNESS WITH EACH LIFT COMPACTED TO 95% STANDARD PROCTOR DENSITY. FILL SLOPES SHALL NOT BE STEEPER THAN 3:1 SLOPE.
3. ALL GRADED AREAS SHALL HAVE 4" OF TOPSOIL, SOD, EROSION FABRIC, HERBACEOUS GROUND COVER, AND/OR HYDROSEEDING WITH A WARM SEASON GRASS. REVEGETATION SHALL BE IMMEDIATELY AFTER THE PHYSICAL ALTERATION OF THE LAND IS COMPLETE (MAXIMUM OF 15 DAYS).
4. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY GRADING REGULATIONS. SILT FENCES, BERMS, DETENTION PONDS, OR OTHER MEANS NEEDED TO MEET THE CITY GRADING REQUIREMENTS SHALL BE PROVIDED AS REQUIRED TO MEET THESE REGULATIONS.
5. ALL HEAVILY TRAVELED DIRT AREAS SHALL BE WETTED TO PREVENT EXCESSIVE DUST, DURING CONSTRUCTION.
6. ALL MUD/DIRT LEFT ON PUBLIC STREETS OR ADJACENT PROPERTIES AS A RESULT OF THIS CONSTRUCTION SHALL BE IMMEDIATELY SHOVELED OR SWEEP AWAY UNTIL IT IS COMPLETELY REMOVED BY THE CONTRACTOR.

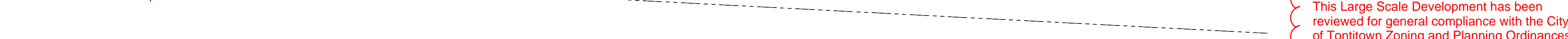
1. CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FROM A.D.E.Q. AND CITY
REGARDING RUNOFF, EROSION CONTROL, AND GRADING BEFORE BEGINNING
CONSTRUCTION.

2. CONTRACTOR SHALL POST STORM WATER POLLUTION PREVENTION PLAN.
3. ALL EROSION & SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED AND OCCASIONALLY REPLACED THROUGHOUT THE CONSTRUCTION PROCESS.
4. ALL EROSION & SEDIMENT CONTROL DEVICES SHOWN SHALL BE INSTALLED BEFORE CONSTRUCTION BEGINS. THOSE ITEMS SHALL REMAIN IN PLACE UNTIL ALL EXCAVATION IS COMPLETE.
5. THE PROPERTY OWNER OR MAIN CONTRACTOR ONSITE WILL BE RESPONSIBLE FOR RESTORING ALL EROSION AND SEDIMENT CONTROL SYSTEMS AND PUBLIC INFRASTRUCTURE DAMAGE OR DISTURBED BY UNDERGROUND PRIVATE FRANCHISED UTILITY CONSTRUCTION SUCH AS WATER AND SEWER SERVICE LEADS, TELEPHONE, GAS, CABLE, ETC. EROSION AND SEDIMENT CONTROL SYSTEMS MUST BE IMMEDIATELY RESTORED AFTER EACH UTILITY CONSTRUCTION.

This Large Scale Development has been reviewed for general compliance with the City of Tontitown Zoning and Planning Ordinances. Oversight of any regulations does not relieve the Owner of their responsibility to comply with all regulations.

Terry W. Carpenter, P.E.
Tontitown City Engineer, July 23, 2015





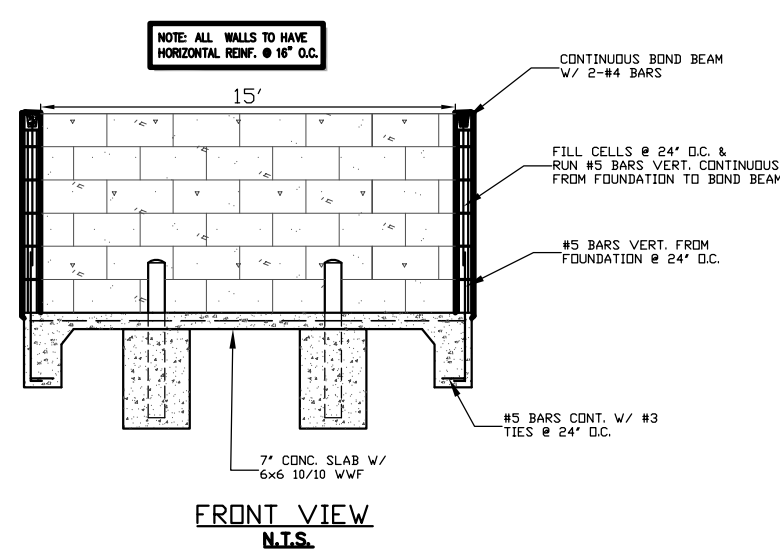
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Terry W. Carpenter, P.E.
Tontitown City Engineer, July 23, 2015

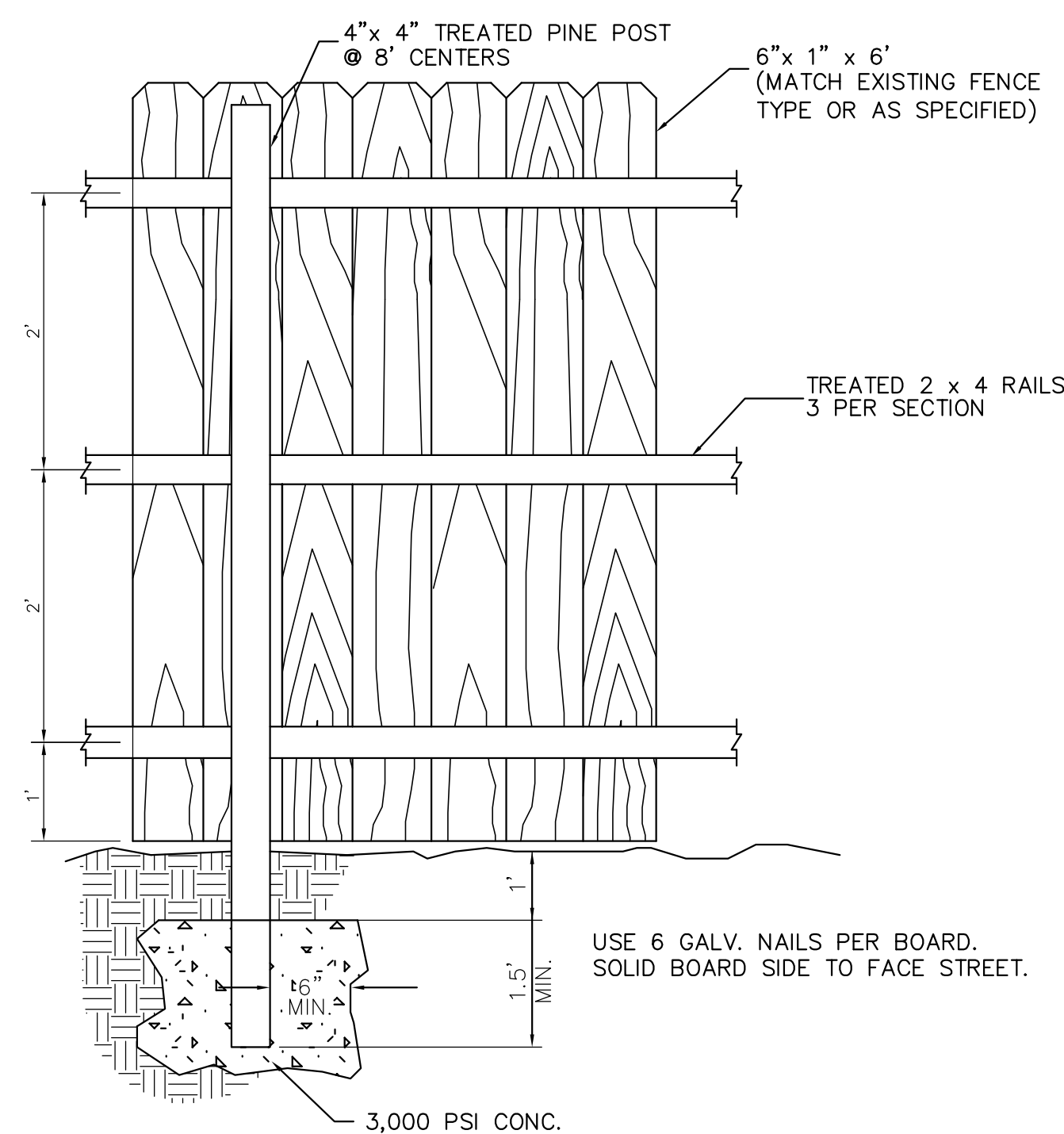
ANT WARRANTY

WARRANT ALL PLANT

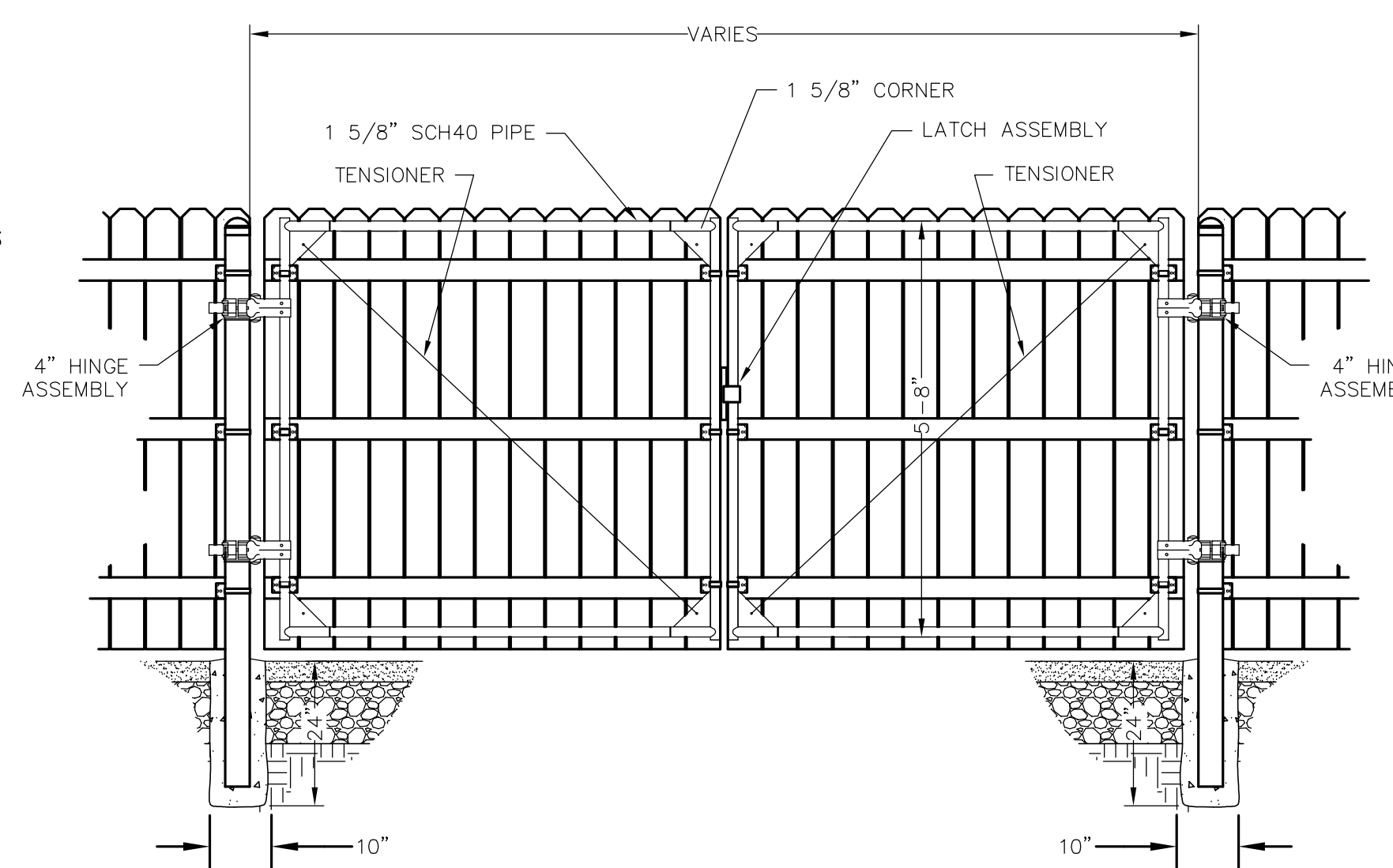
PLANT LIST					
		COMMON NAME /			



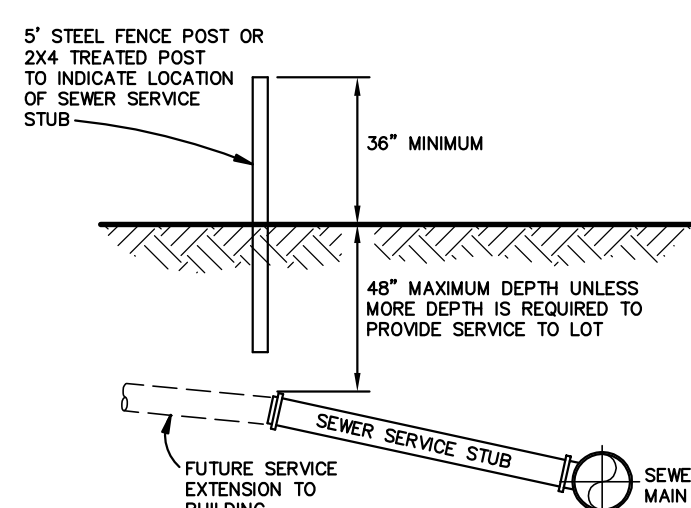
SCREENED DUMPSTER
N.T.S.



6' PRIVACY FENCE DETAIL
N.T.S.



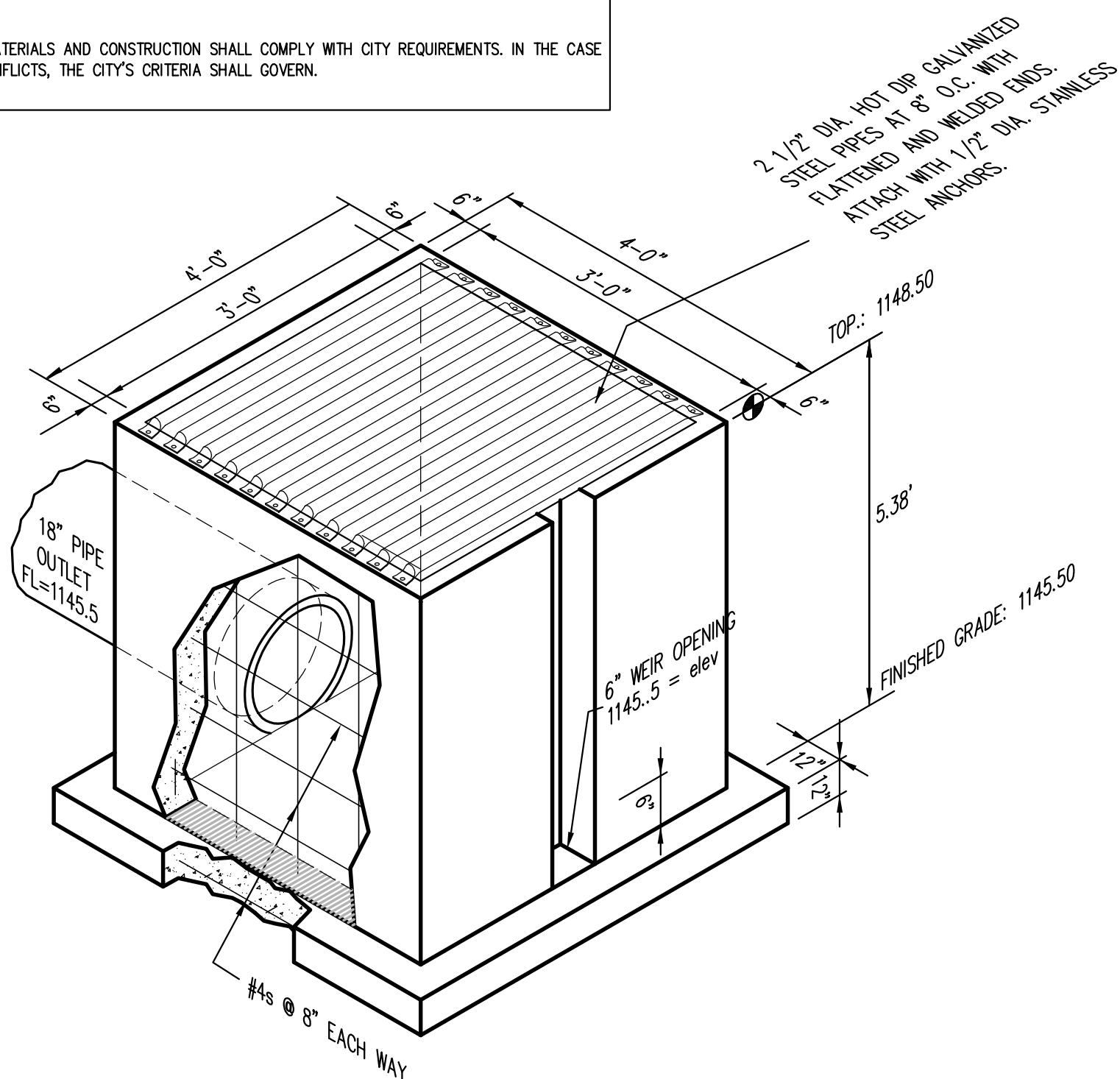
TYPICAL GATE DETAIL
N.T.S.



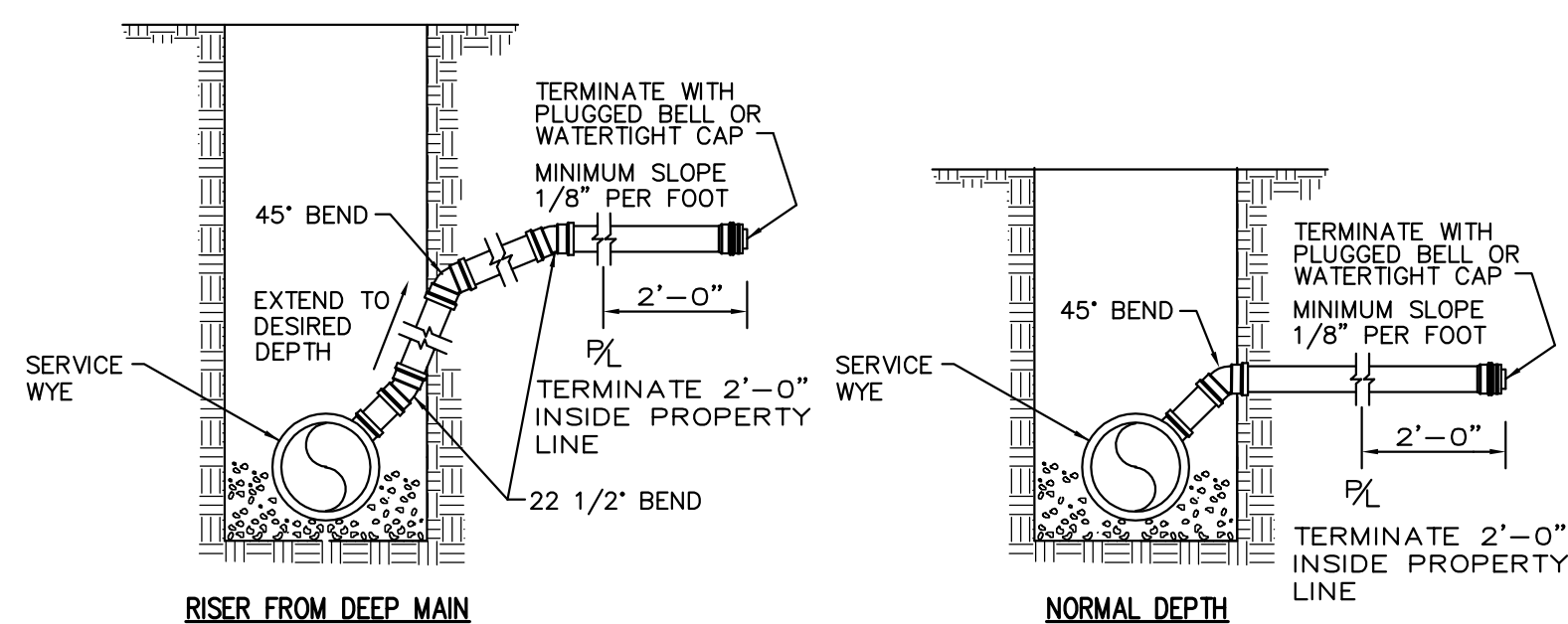
SEWER SERVICE STUB OUT
N.T.S.

ALL INLETS SHALL BE CONSTRUCTED OF PORTLAND CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,500 PSI WHEN TESTED. ALL CONCRETE SHALL CONTAIN AN ENTRAINMENT AGENT WHICH PRODUCES FIVE PERCENT PLUS OR MINUS TWO PERCENT AIR ENTRAINMENT IN THE CONCRETE.

ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH CITY REQUIREMENTS. IN THE CASE OF CONFLICTS, THE CITY'S CRITERIA SHALL GOVERN.




DETENTION OUTLET STRUCTURE
N.T.S.



TYPICAL SERVICE CONNECTIONS
N.T.S.

NOTE THE MINIMUM TRENCH WIDTH FOR ALL PIPE SIZES SHALL BE THAT WHICH FOLLOWS A 6" WORKING DISTANCE ON EACH SIDE OF THE BELL.

CAST OR DUCTILE IRON PIPE REQUIRED WHEN EXISTING OR FINISHED GRADE WHICHEVER IS LESS, PROVIDES LESS THAN 30" OF COVER.



The diagram shows a cross-section of a trench. A pipe is at the bottom with a diameter labeled "B". The trench walls are shown with a rough, excavated texture. The width of the trench at the top is labeled "8d". The depth of the trench is labeled "12\".

NOMINAL PIPE DIAMETER	"8d" (MAX)	"B" (MAX)
8"	2'-10"	2'-6"
10"	3'-0"	2'-6"
12"	3'-4"	3'-0"
14"	3'-4"	3'-0"
15" OR 16"	3'-6"	3'-0"
18"	4'-0"	3'-6"
20" OR 21"	4'-0"	3'-6"
24"	4'-8"	4'-0"
27"	5'-0"	4'-0"
30"	5'-6"	4'-6"

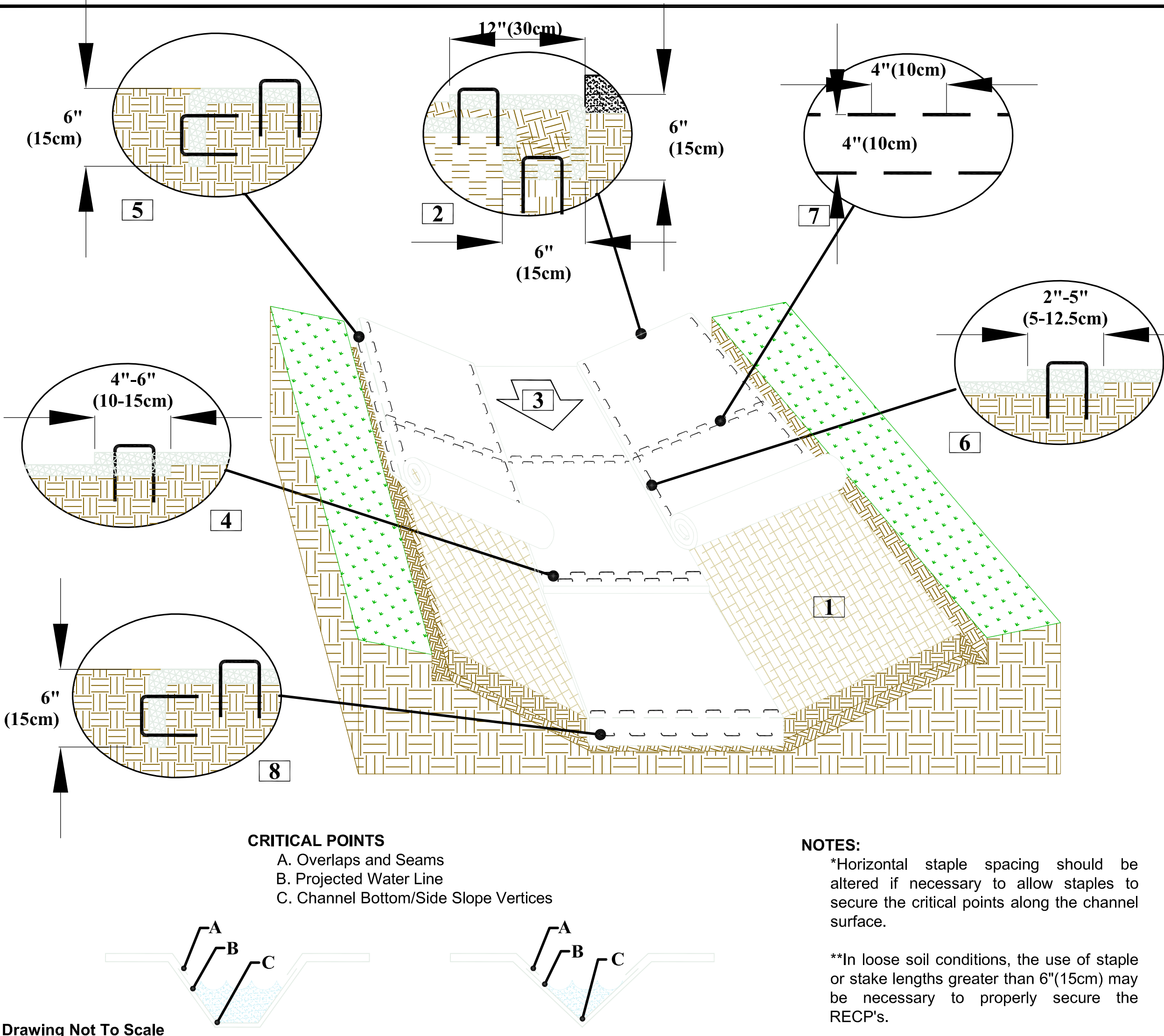
TRENCH WIDTH SCHEDULE

TYPICAL PIPE TRENCH
N.T.S.

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Terry W. Carpenter, P.E.
Tontitown City Engineer, July 23, 2015

Time: 2:07 pm
Scale: 1=1 (PS)
Date: 2/7/2012



CHANNEL INSTALLATION DETAIL

1. Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed.
2. Begin at the top of the channel by anchoring the RECPs in a 6"(15cm) deep X 6"(15cm) wide trench with approximately 12"(30cm) of RECPs extended beyond the up-slope portion of the trench. Use ShoreMax mat at the channel/culvert outlet as supplemental scour protection as needed. Anchor the RECPs with a row of staples/stakes approximately 12"(30cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 12"(30cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes spaced approximately 12" apart across the width of the RECPs.
3. Roll center RECPs in direction of water flow in bottom of channel. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide.
4. Place consecutive RECPs end-over-end (Shingle style) with a 4"-6" overlap. Use a double row of staples staggered 4" apart and 4" on center to secure RECPs.
5. Full length edge of RECPs at top of side slopes must be anchored with a row of staples/stakes approximately 12"(30cm) apart in a 6"(15cm) deep X 6"(15cm) wide trench. Backfill and compact the trench after stapling.
6. Adjacent RECPs must be overlapped approximately 2'-5" (5-12.5cm) (Depending on RECPs type) and stapled.
7. In high flow channel applications a staple check slot is recommended at 30 to 40 foot (9 -12m) intervals. Use a double row of staples staggered 4"(10cm) apart and 4"(10cm) on center over entire width of the channel.
8. The terminal end of the RECPs must be anchored with a row of staples/stakes approximately 12" (30cm) apart in a 6"(15cm) deep X 6"(15cm) wide trench. Backfill and compact the trench after stapling.

Drawing Not To Scale

Tensar.

**NORTH
AMERICAN
GREEN®**

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Disclaimer:

The information presented herein is general design information only. For specific applications, consult an independent professional for further design guidance.

NOTES:

*Horizontal staple spacing should be altered if necessary to allow staples to secure the critical points along the channel surface.

**In loose soil conditions, the use of staple or stake lengths greater than 6"(15cm) may be necessary to properly secure the RECP's.

Drawn on: 3-16-11

This Large Scale Development has been reviewed for general compliance with the City of Tontitown Zoning and Planning Ordinances. Oversight of any regulations does not relieve the Owner of their responsibility to comply with all regulations.

Terry W. Carpenter, P.E.
Tontitown City Engineer, July 23, 2015

PROJECT NO.

CENTRAL ELECTRICAL CONTRACTORS LARGE SCALE DEVELOPMENT PLANS

SITE DETAILS

08

[illegible]

**Bates &
Associates, Inc.**
www.batesaihc.com **Civil Engineering & Surveying**
11 W. Colt Square Dr. • Fayetteville, Arkansas 72703 • 479.442.9350 • Fax: 479.521.9350

STATE OF
ARKANSAS

REGISTERED
PROFESSIONAL
ENGINEER

No. 9810
GEOFFREY H. BATES
12/31/99

CERTIFICATE OF AUTHORIZATION
BATES &
ASSOCIATES, INC.
#335
ARKANSAS ENGINEER