

REVISIONS		
No./Date	Description	By

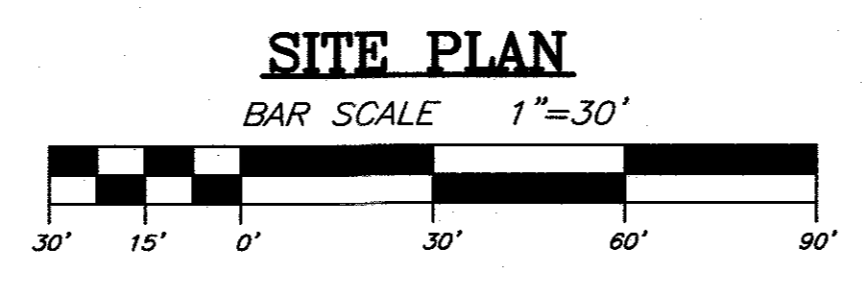
- SITE INVENTORY NOTES:**
1. PREPARER OF THE PLAN: TRIPP ENGINEERING, P.C.
  2. APPLICANT NAME: ABINTO CORPORATION
  3. SITE ADDRESS OF THE DEVELOPMENT: 3320 JAECKLE DRIVE
  4. PROPERTY OWNER: ABINTO CORPORATION
  5. DEVELOPER: ABINTO CORPORATION
  6. PROPERTY BOUNDARY: SEE PLAN  
TAX PARCEL INFORMATION: R05505-004-025-000
  7. PROPERTY ZONING: O&I-1; OFFICE AND INSTITUTIONAL DISTRICT
  8. ADJACENT PROPERTY OWNER INFORMATION: SEE PLAN
  9. VICINITY MAP: SEE PLAN
  10. TOPOGRAPHY: SEE PLAN
  11. 100-YEAR FLOOD BOUNDARY: N/A
  12. EXISTING DITCHES, CREEKS AND STREAMS: SEE PLAN
  13. SOIL: Ke; KENANSVILLE FINE SAND AND Jo; JOHNSTON
  14. CAMA AEC: N/A
  15. CAMA LAND CLASSIFICATION: URBAN
  16. CONSERVATION RESOURCES: NONE  
ASSOCIATED SETBACKS: N/A
  17. HISTORIC OR ARCHAEOLOGICAL SITE: N/A
  18. CEMETERIES, BURIAL SITES/GROUNDS: N/A
  19. FORESTED AREAS, HABITAT AND DOMINANT SPECIES: N/A
  20. WETLANDS: NONE
  21. PROTECTED SPECIES OR HABITAT: N/A
  22. EXISTING OR PROPOSED THROUGHFARES, BIKE ROUTES, PEDESTRIAN SIDEWALKS OR TRAILS AND TRANSIT FACILITIES: SEE SITE PLAN
  23. THERE ARE NO EXISTING TREES ON SITE

CURVE TABLE					
CURVE	LENGTH	RADIUS	BEARING	CHORD	DELTA
C1	46.04'	1191.30'	S83°55'12"W	46.03'	2°12'51"
C2	30.25'	1191.30'	S82°05'08"W	30.25'	1°27'17"
C3	298.64'	1191.30'	S74°10'36"W	297.86'	14°21'47"
C4	122.39'	830.00'	N28°51'02"W	122.28'	8°26'55"
C5	9.51'	830.00'	N33°24'11"W	9.51'	0°39'24"
C6	24.33'	130.00'	N48°42'25"E	24.29'	10°43'21"

STORMWATER MANAGEMENT PLAN  
APPROVED  
CITY OF WILMINGTON  
ENGINEERING DEPARTMENT  
DATE \_\_\_\_\_ PERMIT # \_\_\_\_\_  
SIGNED \_\_\_\_\_

Approved Construction Plan		
Name	Date	
Planning	_____	_____
Traffic	_____	_____
Fire	_____	_____

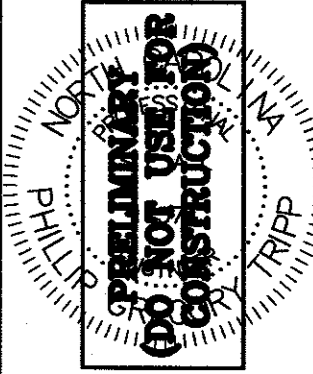
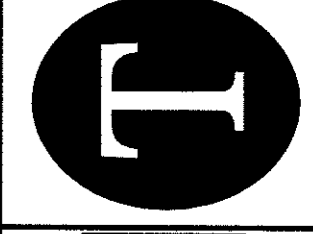
For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.



- LEGEND**
- PROPERTY BOUNDARY
  - - - EXISTING CONTOUR
  - EXISTING SPOT ELEVATION
  - X-X-X- EXISTING CURB TO BE REMOVED

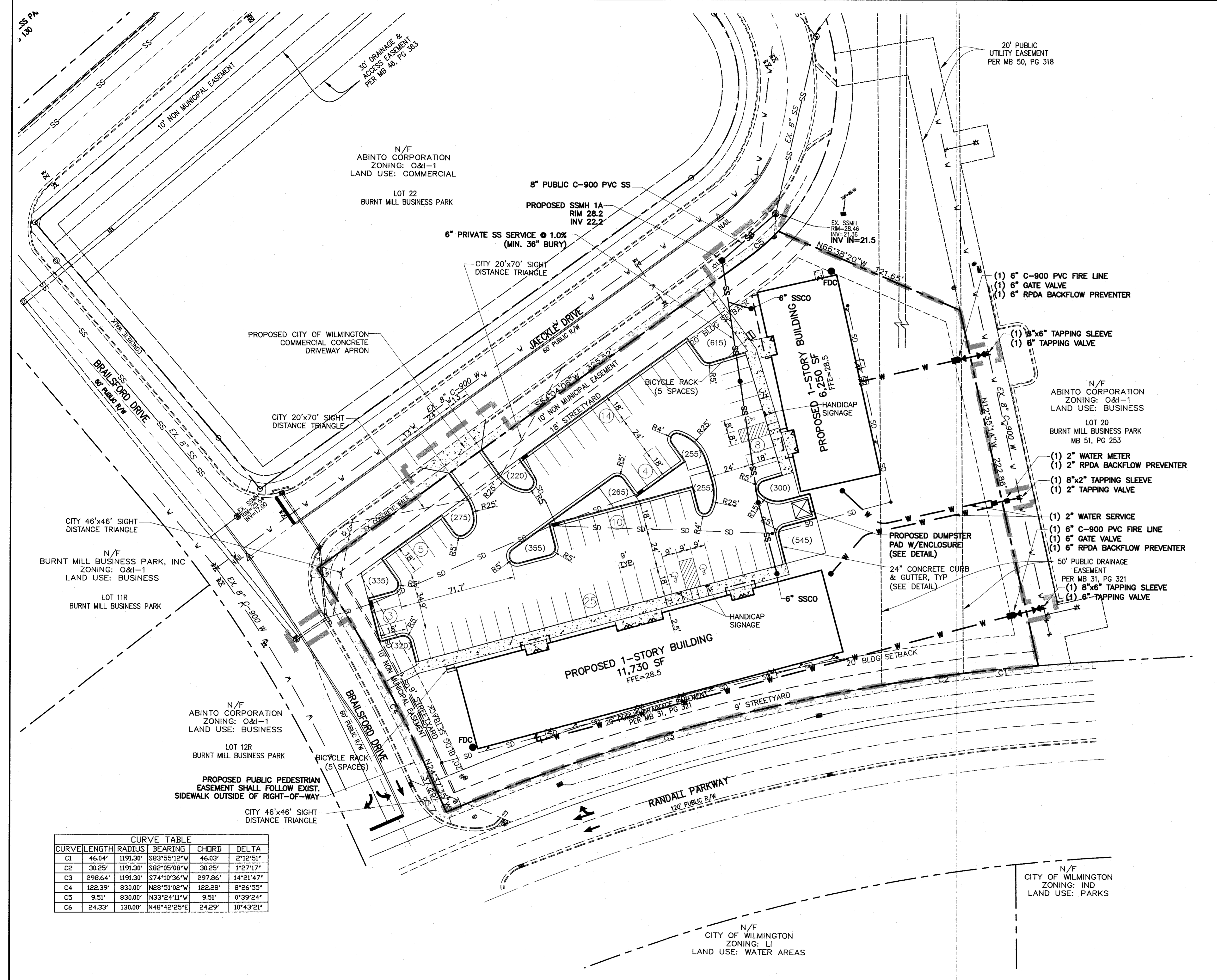
TRIPP ENGINEERING, P.C.  
 EXISTING CONDITIONS, SITE INVENTORY,  
 AND DEMOLITION PLAN  
**BURNT MILL BUSINESS PARK LOT 21**  
 3320 JAECKLE DRIVE  
 WILMINGTON, NORTH CAROLINA

419 Chestnut Street  
 Wilmington, North Carolina 28401  
 Phone 910-763-5100  
 Fax 910-763-5631  
 © 2018 TRIPP ENGINEERING, P.C.



DATE 01-24-18  
DESIGN PGT  
DRAWN MLV

**C1**  
SHEET 1 OF 5  
17059



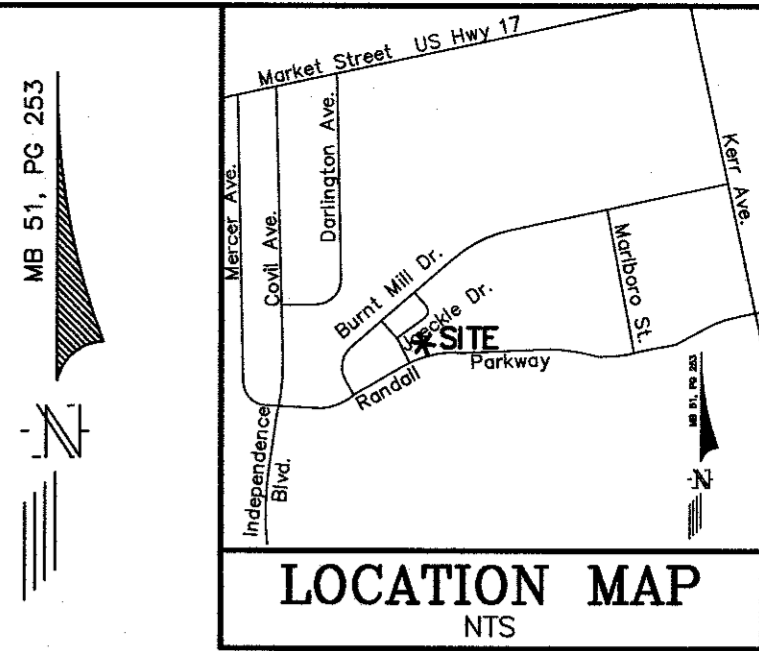
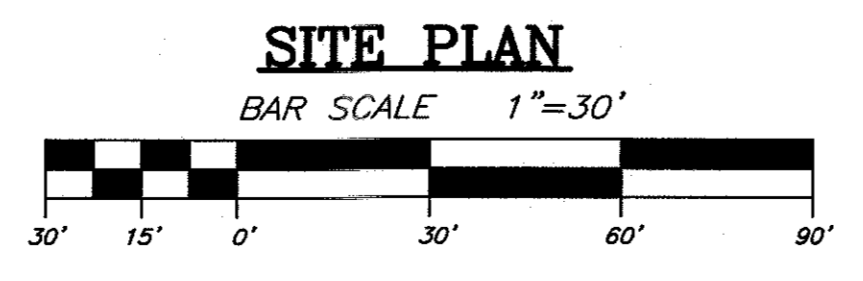
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**APPROVED**  
 CITY OF WILMINGTON  
 ENGINEERING DEPARTMENT  
 DATE \_\_\_\_\_ PERMIT # \_\_\_\_\_  
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Approved Construction Plan

Name	Date
Planning	_____
Traffic	_____
Fire	_____

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REVISIONS		
No.	Date	Description

**SITE DATA:**

PROPERTY OWNER	ABINTO CORPORATION
PROJECT ADDRESS	3320 JAECKLE DRIVE
PIN NUMBER	R05505-004-025-000
AREA NOT IN A FEMA 100-YEAR FLOOD ZONE	2.2 AC
ZONING DISTRICT	O&I-1; OFFICE & INSTITUTIONAL
DISTURBED AREA	2.2 AC
SETBACKS REQUIRED	FRONT: 20' REAR: 20' INTERIOR SIDE/CORNER SIDE: 10'/20'
PROPOSED BUILDING SETBACKS	99'
PROPOSED 11,730 SF BUILDING SETBACKS	33.3'
JAECKLE DRIVE	20.9'
BURNT MILL DRIVE	114.9'
RANDALL PARKWAY	20.5'
INTERIOR SIDE	125.5'
PROPOSED 6,250 SF BUILDING SETBACKS	10'
JAECKLE DRIVE	20.5'
BURNT MILL DRIVE	279.5'
RANDALL PARKWAY	125.5'
INTERIOR SIDE	10'
TRACT AREA	91,121 SF (2.09 AC)
BUILDING USE	OFFICE
CAMA LAND USE	URBAN
PROPOSED BUILDING AREA (GROSS)	17,980 SF
BUILDING LOT COVERAGE (17,980/91,121)	19.7%
NUMBER OF UNITS	1
NUMBER OF BUILDINGS	1
BUILDING HEIGHT	1
NUMBER OF STORES	1
EXISTING IMPERVIOUS AREAS:	
EXISTING BUILDING	0 SF
EXISTING CONCRETE	0 SF
EXISTING CRUSHED STONE	0 SF
EXISTING ASPHALT	0 SF
EXISTING IMPERVIOUS AREA	0 SF (0%)
PROPOSED ONSITE IMPERVIOUS AREAS:	
PROPOSED BUILDING FOOTPRINT	17,980 SF
PROPOSED PAVEMENT	26,945 SF
PROPOSED SIDEWALK	3,280 SF
EXISTING IMPERVIOUS	0 SF
FUTURE IMPERVIOUS	21,285 SF
TOTAL IMPERVIOUS AREA	68,800 SF (75.3%)
PROPOSED OFFSITE IMPERVIOUS AREAS:	
PROPOSED PAVEMENT	500 SF
PROPOSED SIDEWALK	0 SF
TOTAL IMPERVIOUS AREA	500 SF
TOTAL ONSITE + OFFSITE IMPERVIOUS AREA	69,100 SF
PARKING REQUIRED: (OFFICE)	
MINIMUM: 1/300 SF (17,980 SF)	60
MAXIMUM: 1/200 SF (17,980 SF)	90
TOTAL PARKING REQUIRED:	60-90
TOTAL PARKING PROVIDED:	69
HANDICAP SPACES REQUIRED (1-25 SPACES=1 HANDICAP SPACE)	3
69 SPACES/25=2.76	
BICYCLE PARKING REQUIRED (69 SPACES)	5 BICYCLE PARKS
BICYCLE PARKING PROVIDED	10 BICYCLE PARKS
PUBLIC WATER AND SEWER BY CFPWA	
EXISTING SEWER FLOW:	0 GPD
EXISTING WATER FLOW:	0 GPD
PROPOSED SEWER FLOW:	1,500 GPD
OFFICE 25 GPD/EMPLOYEE x 60 EMPLOYEES	
PROPOSED WATER FLOW: (1,500 x 110%)	1,650 GPD

**LEGEND**

---	PROPERTY BOUNDARY
SS	PROPOSED SEWER
W	PROPOSED WATER
SD	PROPOSED STORM WATER
---	LIMITS OF DISTURBANCE
(220)	PROPOSED PARKING LOT LANDSCAPE ISLAND AREA

**NOTES:**

**ZONING**

- 1) TOPOGRAPHY COMPLETED BY C.I. GLOVER COMPANY.
- 2) PERMITTING OF BUSINESS IDENTIFICATION SIGNAGE IS A SEPARATE PROCESS. CITY OF WILMINGTON WILL NOT ALLOW OBSTRUCTIONS WITHIN THE RIGHT-OF-WAY.
- 3) CONTRACTOR SHALL FIELD VERIFY SIZE, MATERIAL, INVERTS AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF PROPOSED CONNECTIONS.
- 4) EXISTING EASEMENTS AS SHOWN.
- 5) CONTRACTOR SHALL MAINTAIN ALL WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
- 6) UNDERGROUND FIRE LINE(S) MUST BE PERMITTED AND INSPECTED BY THE WILMINGTON FIRE DEPARTMENT FROM THE PUBLIC RIGHT-OF-WAY TO THE BUILDING. CONTACT THE WILMINGTON FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY AT 910-341-0898.
- 7) SITE WILL NOT BE FENCED.
- 8) BUILDING CONSTRUCTION TYPE II B.

**SOLID WASTE**

- 1) SITE TO USE DUMPSTER AS SHOWN ON PLAN.

**TRAFFIC**

- 1) ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
- 2) TRAFFIC CONTROL DEVICES (INCLUDING SIGNS AND PAVEMENT MARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
- 3) CONTACT TRAFFIC ENGINEERING AT 910-341-7888 TO ENSURE THAT ALL TRAFFIC SIGNALS FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN.
- 4) CALL TRAFFIC ENGINEERING AT 910-341-7888 FORTY-EIGHT HOURS PRIOR TO ANY WORK IN THE RIGHT-OF-WAY IN THE RIGHT-OF-WAY FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAN.
- 5) ANY BROKEN OR MISSING SIGNAL PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.
- 6) CONTACT 910-341-7888 TO DISCUSS STREET LIGHTING OPTIONS.
- 7) ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF OF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
- 8) NO ROWS TO BE CLOSED.
- 9) NO STREETS PROPOSED.
- 10) OFF SITE PARKING PROPOSED AS SHOWN.
- 11) DRIVEWAYS TO MEET CITY STANDARDS.
- 12) ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
- 13) ALL STOP SIGNS AND STREET SIGNS TO REMAIN IN PLACE DURING CONSTRUCTION.
- 14) STOP SIGNS AND STREET SIGNS TO REMAIN IN PLACE DURING CONSTRUCTION.
- 15) TACTILE WARNING MATS WILL BE INSTALLED ON ALL WHEELCHAIR RAMPS.
- 16) POSTED SPEED LIMIT: 45 MPH
- 17) ANY TRAFFIC SIGNAL INFRASTRUCTURE ADJUSTMENTS, INCLUDING OVERHEAD OR UNDERGROUND SIGNAL SYSTEM FIBER COMMUNICATION LINES, ARE THE RESPONSIBILITY OF THE APPLICANT/DEVELOPER.
- 18) THE CITY SHALL BE NOTIFIED IMMEDIATELY OF ANY TRAFFIC SIGNAL FACILITIES DAMAGED DURING CONSTRUCTION.

**LANDSCAPING**

- 1) A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION AND THE PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAN.
- 2) NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRY (30) INCHES AND TEN (10) FEET ABOVE THE GROUND WITHIN THE TRIANGULAR SITE DISTANCE.
- 3) PRIOR TO ANY CLEARING OR GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
- 4) ANY TREES AND/OR AREAS DESIGNATED TO BE PROTECTED MUST BE PROPERLY MARKED WITH FENCING AND PROTECTED THROUGHOUT CONSTRUCTION TO INSURE THAT NO CLEARING, GRADING OR STAGING OF MATERIALS WILL OCCUR IN THOSE AREAS.
- 5) NO EQUIPMENT IS ALLOWED ON SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING IS INSTALLED AND APPROVED. PROTECTIVE FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT AND CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTIONS ON TREE PROTECTION METHODS.

**CFPWA**

- 1) WATER AND SEWER SERVICE SHALL MEET CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPWA) DETAILS AND SPECIFICATIONS.
- 2) PROJECT SHALL COMPLY WITH THE CFPWA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METER(S) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL.
- 3) IF THE CONTRACTOR DESIRES CFPWA WATER FOR CONSTRUCTION, HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPERS SIDE OF THE WATER METER BOX.
- 4) ANY IRRIGATION SYSTEM SUPPLIED BY CFPWA WATER SHALL COMPLY WITH THE CFPWA'S CONNECTION CONTROL REGULATION. CALL 910-332-8419 FOR INFORMATION.
- 5) ANY BACKFLOW PREVENTION DEVICES REQUIRED BY CFPWA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES FOR USE/FCOOR OR ASSE.
- 6) PUBLIC WATER AND SEWER EXISTING.
- 7) CONTACT THE NORTH CAROLINA ONE CALL CENTER AT 1-800-832-4849 PRIOR TO DOING ANY DIGGING, CLEARING OR GRADING.
- 8) ANY IRRIGATION SYSTEM SHALL BE EQUIPPED WITH A RAIN AND FREEZER SENSOR.
- 9) CONTRACTOR TO FIELD VERIFY EXISTING WATER AND SEWER SERVICE LOCATIONS, SIZES AND MATERIALS PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED OF ANY CONFLICTS.

**DRAINAGE**

- 1) SHEET FLOW TO PROPOSED CURB INLETS THEN TO EXISTING STORM DRAIN PIPE SYSTEM THEN TO EXISTING OFF-SITE STORMWATER POND.

**FIRE**

- 1) FIRE HYDRANT MUST BE WITHIN 150' OF THE FDC MEASURED AS THE TRUCK DRIVES FOR PRACTICAL USE.
- 2) FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT.
- 3) LANDSCAPING OR PARKING CANOE BLOCK OR IMPIDE THE FDC OR FIRE HYDRANTS. A 3-FOOT CLEAR SPAN SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT AND FDC.
- 4) IN ADDITION TO THE STANDARD COMMENTS, ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
- 5) ALL ISOLATION VALVES WITHIN THE "HOT BOX" SHALL BE ELECTRICALLY SUPERVISED. PLEASE WORK CLOSELY WITH YOUR FIRE SPRINKLER AND ALARM INSTALLER IN REGARDS TO RUNNING WIRE FOR TAMPER SWITCH.

**SITE**

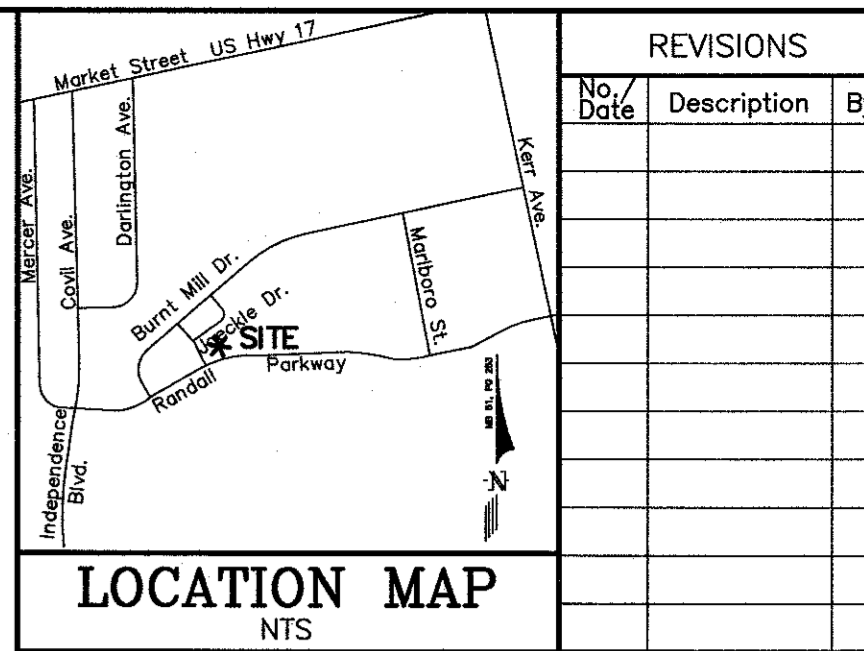
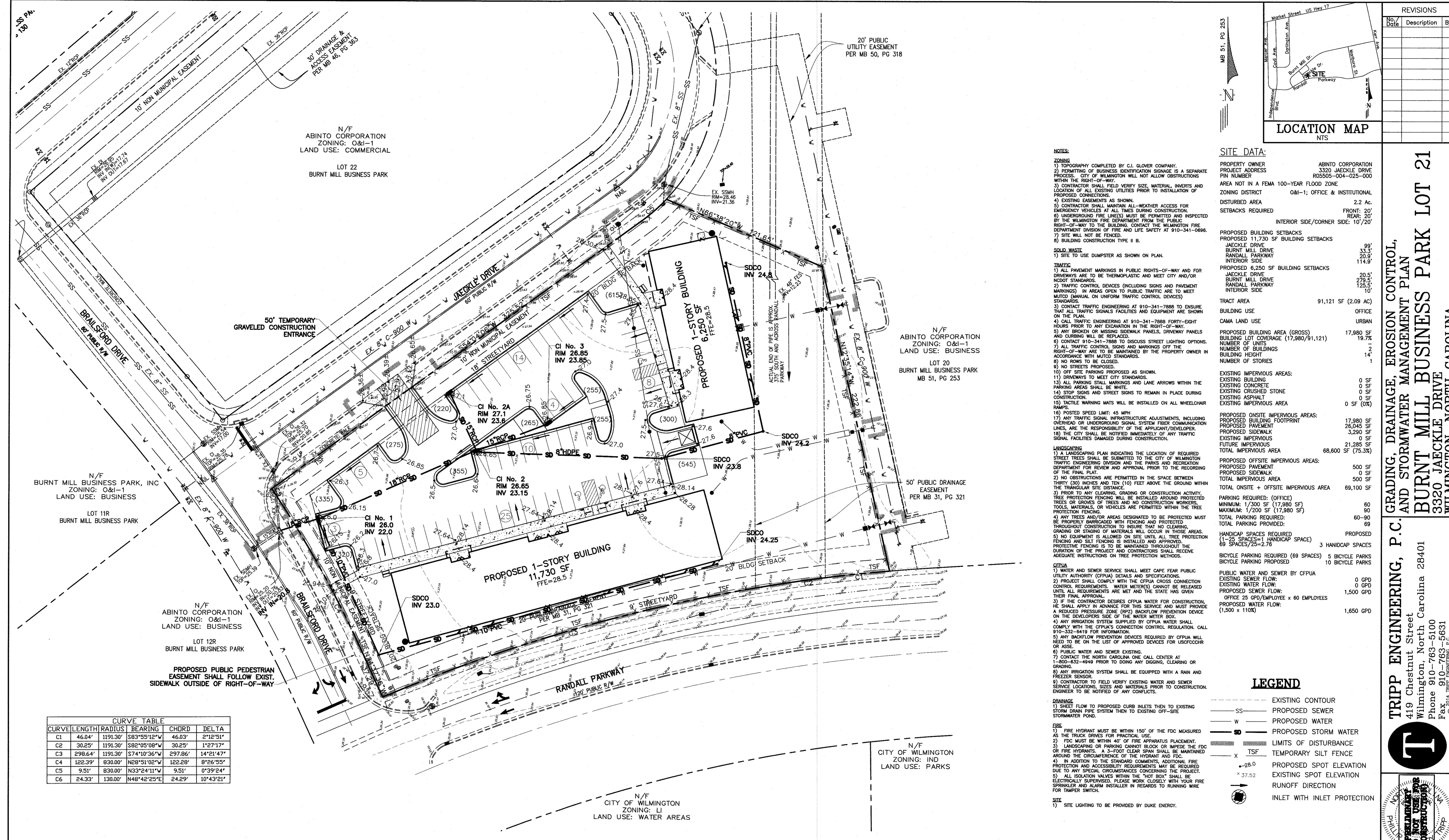
- 1) SITE LIGHTING TO BE PROVIDED BY DUKE ENERGY.

**TRIPP ENGINEERING, P.C.**  
 419 Chestnut Street  
 Wilmington, North Carolina 28401  
 Phone 910-763-5100  
 Fax 910-763-5691  
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 LICENSE NO. 31-197

**DATE** 01-24-18  
**DESIGN** PGT  
**DRAWN** MLV

**C2**  
 SHEET 2 OF 5  
 17059

**BURNT MILL BUSINESS PARK LOT 21**  
 3320 JAECKLE DRIVE  
 WILMINGTON, NORTH CAROLINA



REVISIONS		
No./Date	Description	By

**SITE DATA:**

PROPERTY OWNER: ABINTO CORPORATION  
 PROJECT ADDRESS: 3320 JAECKLE DRIVE  
 PIN NUMBER: R05505-004-025-000  
 AREA NOT IN A FEMA 100-YEAR FLOOD ZONE  
 ZONING DISTRICT: O&I-1; OFFICE & INSTITUTIONAL  
 DISTURBED AREA: 2.2 Ac.  
 SETBACKS REQUIRED: FRONT: 20'  
 REAR: 20'  
 INTERIOR SIDE/CORNER SIDE: 10'/20'

**PROPOSED BUILDING SETBACKS**

PROPOSED 11,730 SF BUILDING SETBACKS	99'
JAECKLE DRIVE	33.3'
BURNT MILL DRIVE	20.9'
RANDALL PARKWAY	114.9'
INTERIOR SIDE	

**PROPOSED 6,250 SF BUILDING SETBACKS**

JAECKLE DRIVE	20.5'
BURNT MILL DRIVE	279.5'
RANDALL PARKWAY	125.5'
INTERIOR SIDE	10'

TRACT AREA: 91,121 SF (2.09 AC)  
 BUILDING USE: OFFICE  
 CAMA LAND USE: URBAN

**PROPOSED BUILDING AREA (GROSS)**

BUILDING LOT COVERAGE (17,980/91,121)	19.7%
NUMBER OF UNITS	1
NUMBER OF BUILDINGS	1
BUILDING HEIGHT	1
NUMBER OF STORIES	1

**EXISTING IMPERVIOUS AREAS:**

EXISTING BUILDING	0 SF
EXISTING CONCRETE	0 SF
EXISTING CRUSHED STONE	0 SF
EXISTING ASPHALT	0 SF
EXISTING IMPERVIOUS AREA	0 SF (0%)

**PROPOSED ONSITE IMPERVIOUS AREAS:**

PROPOSED BUILDING FOOTPRINT	17,980 SF
PROPOSED PAVEMENT	26,045 SF
PROPOSED SIDEWALK	3,290 SF
EXISTING IMPERVIOUS	21,285 SF
FUTURE IMPERVIOUS	0 SF
TOTAL IMPERVIOUS AREA	68,600 SF (75.3%)

**PROPOSED OFFSITE IMPERVIOUS AREAS:**

PROPOSED PAVEMENT	500 SF
PROPOSED SIDEWALK	0 SF
TOTAL IMPERVIOUS AREA	500 SF
TOTAL ONSITE + OFFSITE IMPERVIOUS AREA	69,100 SF

**PARKING REQUIRED: (OFFICE)**

MINIMUM: 1/300 SF (17,980 SF)	60
MAXIMUM: 1/200 SF (17,980 SF)	90
TOTAL PARKING REQUIRED:	60-90
TOTAL PARKING PROVIDED:	69

**HANDICAP SPACES REQUIRED**  
 (1-25 SPACES=1 HANDICAP SPACE)  
 69 SPACES/25=2.76

PROPOSED HANDICAP SPACES	3
BICYCLE PARKING REQUIRED (69 SPACES)	5 BICYCLE PARKS
BICYCLE PARKING PROVIDED	10 BICYCLE PARKS

**PUBLIC WATER AND SEWER BY CFPWA**

EXISTING SEWER FLOW:	0 GPD
EXISTING WATER FLOW:	0 GPD
PROPOSED SEWER FLOW:	1,500 GPD
OFFICE 25 GPD/EMPLOYEE x 60 EMPLOYEES	1,500 GPD
PROPOSED WATER FLOW:	1,650 GPD
(1,500 x 110%)	

**LEGEND**

- EXISTING CONTOUR
- SS --- PROPOSED SEWER
- W --- PROPOSED WATER
- SD --- PROPOSED STORM WATER
- LIMITS OF DISTURBANCE
- X --- TEMPORARY SILT FENCE
- 28.0 --- PROPOSED SPOT ELEVATION
- 37.52 --- EXISTING SPOT ELEVATION
- RUNOFF DIRECTION
- INLET WITH INLET PROTECTION

**NOTES:**

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- 6) UNDERGROUND FIRE LINE(S) MUST BE PERMITTED AND INSPECTED BY THE WILMINGTON FIRE DEPARTMENT FROM THE PUBLIC RIGHT-OF-WAY TO THE BUILDING. CONTACT THE WILMINGTON FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY AT 910-341-0896.
- 7) SITE WILL NOT BE FENCED.
- 8) BUILDING CONSTRUCTION TYPE II B.

**SOLID WASTE**

- 1) SITE TO USE DUMPSTER AS SHOWN ON PLAN.

**TRAFFIC**

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- 13) STOP SIGNS AND STREET SIGNS TO REMAIN IN PLACE DURING CONSTRUCTION.
- 14) TACTILE WARNING MATS WILL BE INSTALLED ON ALL WHEELCHAIR RAMPS.
- 15) POSTED SPEED LIMIT: 45 MPH
- 16) ANY TRAFFIC SIGNAL INFRASTRUCTURE ADJUSTMENTS, INCLUDING OVERHEAD OR UNDERGROUND SIGNAL SYSTEM FIBER COMMUNICATION LINES ARE THE RESPONSIBILITY OF THE APPLICANT/DEVELOPER.
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- 4) ANY TREES AND/OR AREAS DESIGNATED TO BE PROTECTED MUST BE PROPERLY BARICADED WITH FENCING AND PROTECTED THROUGHOUT CONSTRUCTION TO INSURE THAT NO CLEARING, GRADING OR STAKING OF MATERIALS WILL OCCUR IN THOSE AREAS.
- 5) NO EQUIPMENT IS ALLOWED ON SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING IS INSTALLED AND APPROVED. PROTECTIVE FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT AND CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTIONS ON TREE PROTECTION METHODS.

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- 3) IF THE CONTRACTOR DESIRES CFPWA WATER FOR CONSTRUCTION, HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPER'S SIDE OF THE WATER METER BOX.
- 4) ANY IRRIGATION SYSTEM SUPPLIED BY CFPWA WATER SHALL COMPLY WITH THE CFPWA'S CONNECTION CONTROL REGULATION, CALL 910-332-6419 FOR INFORMATION.
- 5) ANY BACKFLOW PREVENTION DEVICES REQUIRED BY CFPWA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES FOR USFCO/CHOR OR ASSE.
- 6) PUBLIC WATER AND SEWER EXISTING.
- 7) CONTACT THE NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4849 PRIOR TO DOING ANY DIGGING, CLEARING OR GRADING.
- 8) ANY IRRIGATION SYSTEM SHALL BE EQUIPPED WITH A RAIN AND FREEZER SENSOR.
- 9) CONTRACTOR TO FIELD VERIFY EXISTING WATER AND SEWER SERVICE LOCATIONS, SIZES AND MATERIALS PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED OF ANY CONFLICTS.

**DRAINAGE**

- 1) SHEET FLOW TO PROPOSED CURB INLETS THEN TO EXISTING STORM DRAIN PIPE SYSTEM THEN TO EXISTING OFF-SITE STORMWATER POND.

**FIRE**

- 1) FIRE HYDRANT MUST BE WITHIN 150' OF THE FDC MEASURED AS THE TRUCK DRIVES FOR PRACTICAL USE.
- 2) FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT.
- 3) LANDSCAPING OR PARKING CANOPY BLOCK OR IMPIDE THE FDC OR FIRE HYDRANTS. A 3-FOOT CLEAR SPAN SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT AND FDC.
- 4) IN ADDITION TO THE STANDARD COMMENTS, ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
- 5) ALL ISOLATION VALVES WITHIN THE "HOT BOX" SHALL BE ELECTRICALLY SUPERVISED. PLEASE WORK CLOSELY WITH YOUR FIRE SPRINKLER AND ALARM INSTALLER IN REGARDS TO RUNNING WIRE FOR TAMPER SWITCH.

**SITE**

- 1) SITE LIGHTING TO BE PROVIDED BY DUKE ENERGY.

**CURVE TABLE**

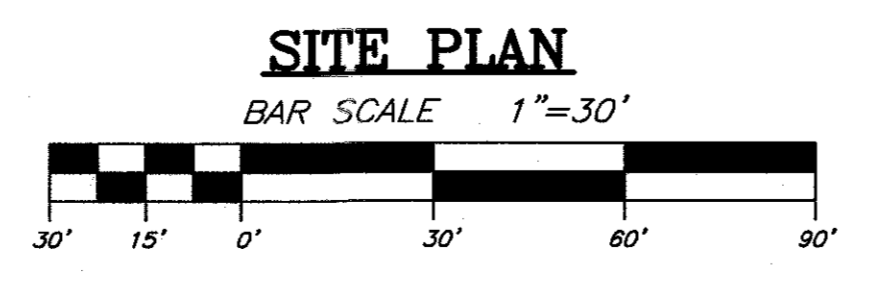
CURVE	LENGTH	RADIUS	BEARING	CHORD	DELTA
C1	46.04'	1191.30'	S83°55'12"W	46.03'	2°12'51"
C2	30.25'	1191.30'	S82°05'08"W	30.25'	1°27'17"
C3	298.64'	1191.30'	S74°10'36"W	297.86'	14°21'47"
C4	122.39'	830.00'	N28°51'02"W	122.28'	8°26'55"
C5	9.51'	830.00'	N33°24'11"W	9.51'	0°39'24"
C6	24.33'	130.00'	N48°42'25"E	24.29'	10°43'21"

STORMWATER MANAGEMENT PLAN  
 APPROVED  
 CITY OF WILMINGTON  
 ENGINEERING DEPARTMENT  
 DATE \_\_\_\_\_ PERMIT # \_\_\_\_\_  
 SIGNED \_\_\_\_\_

Approved Construction Plan

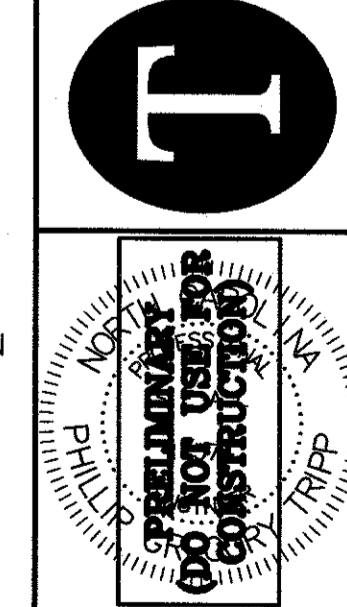
Name	Date
Planning	_____
Traffic	_____
Fire	_____

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

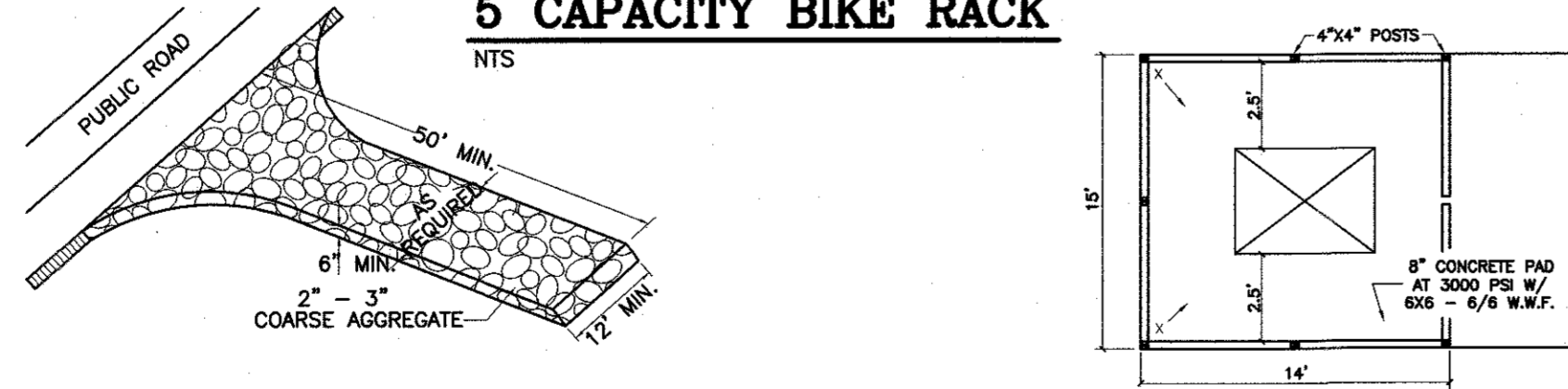
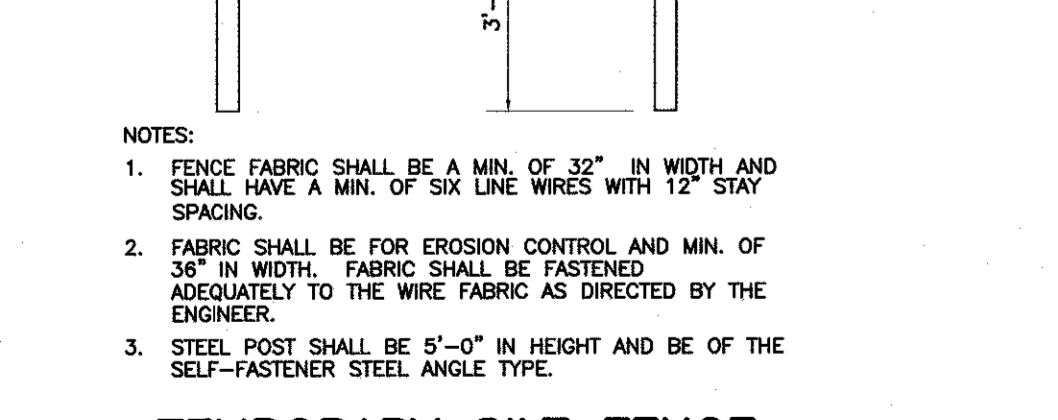
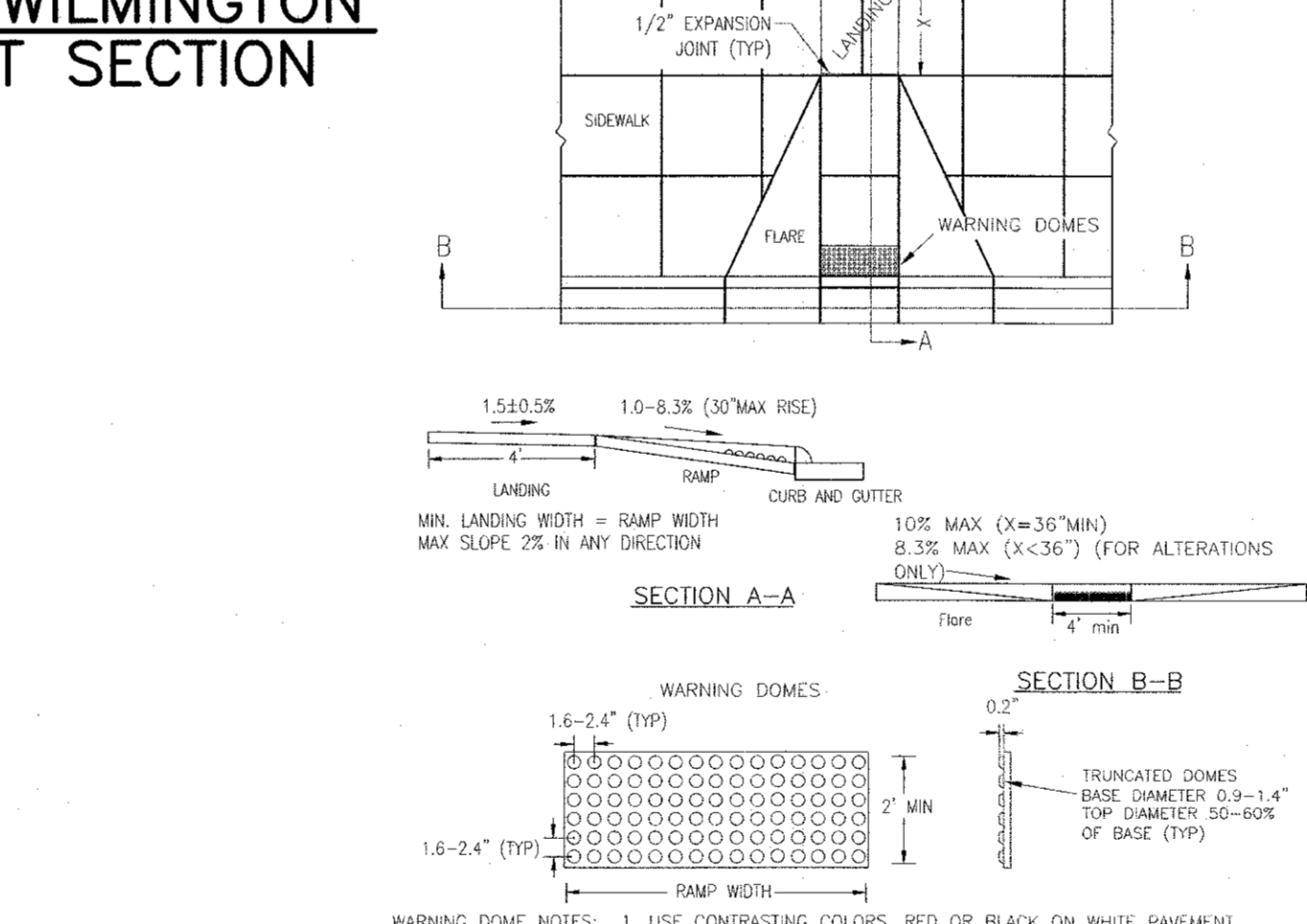
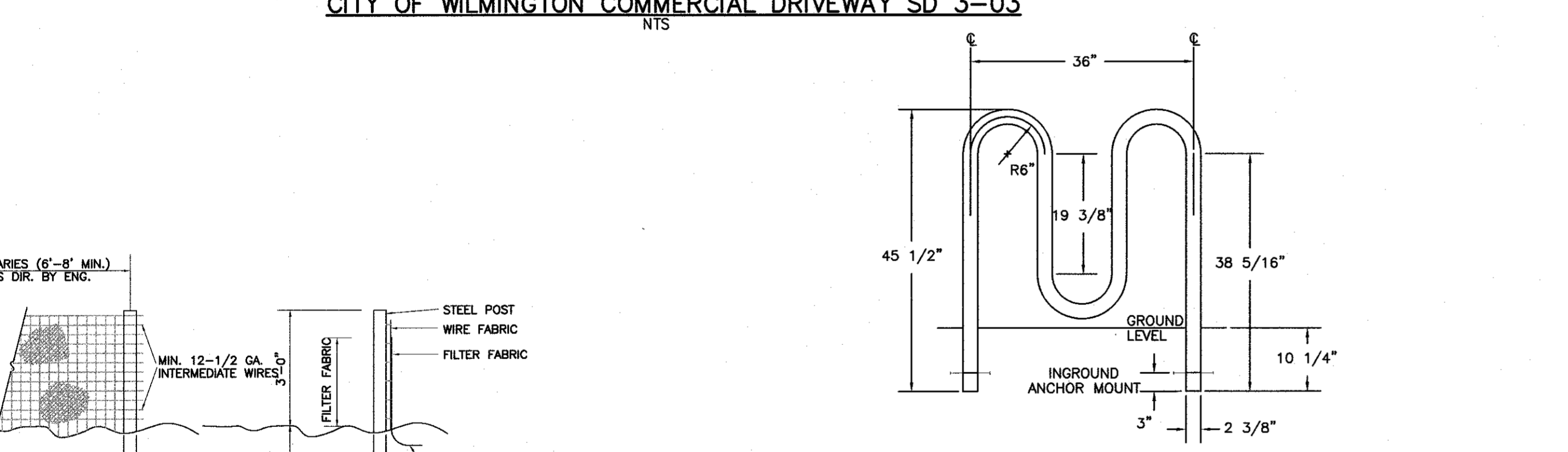
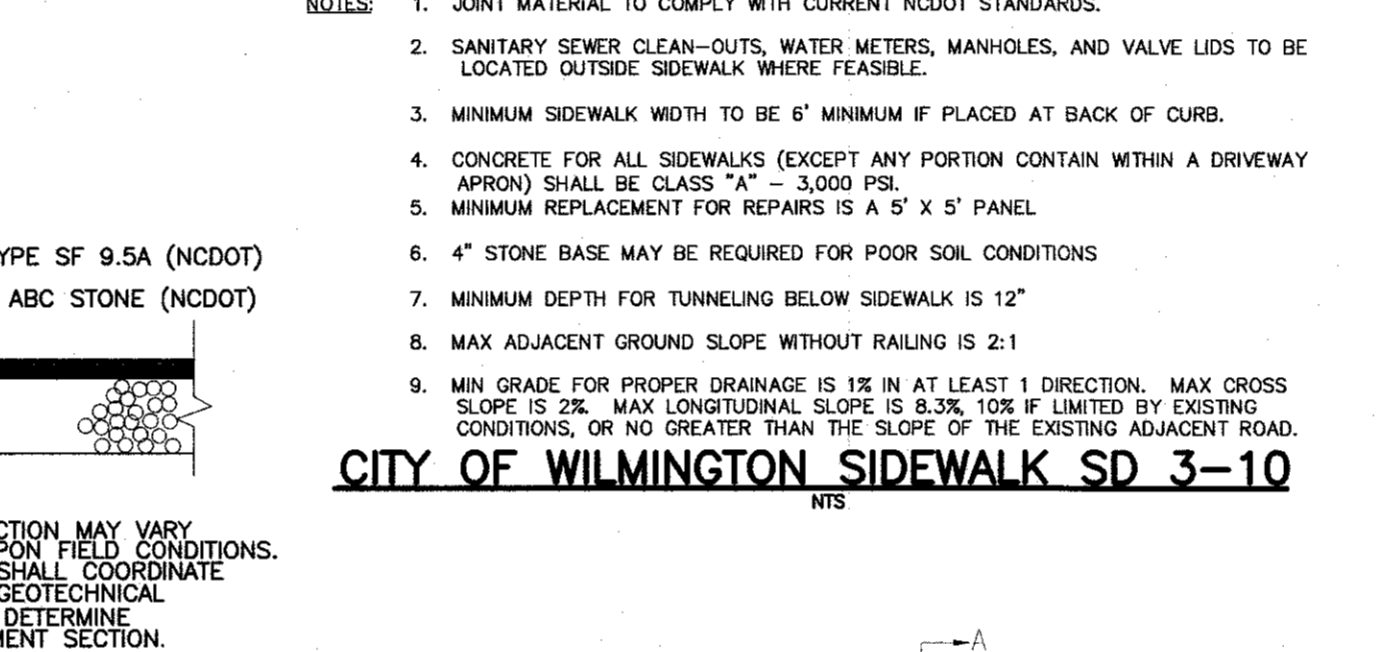
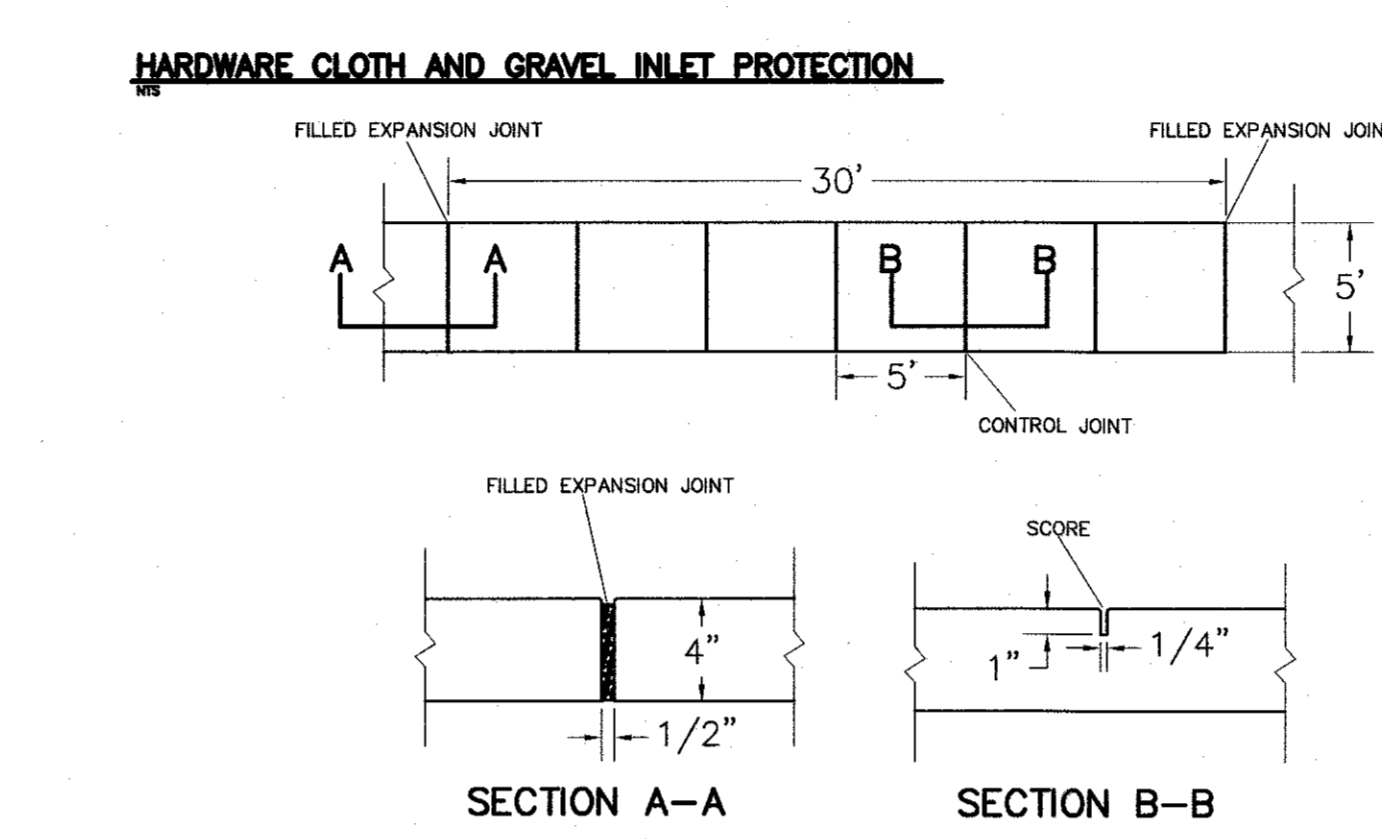
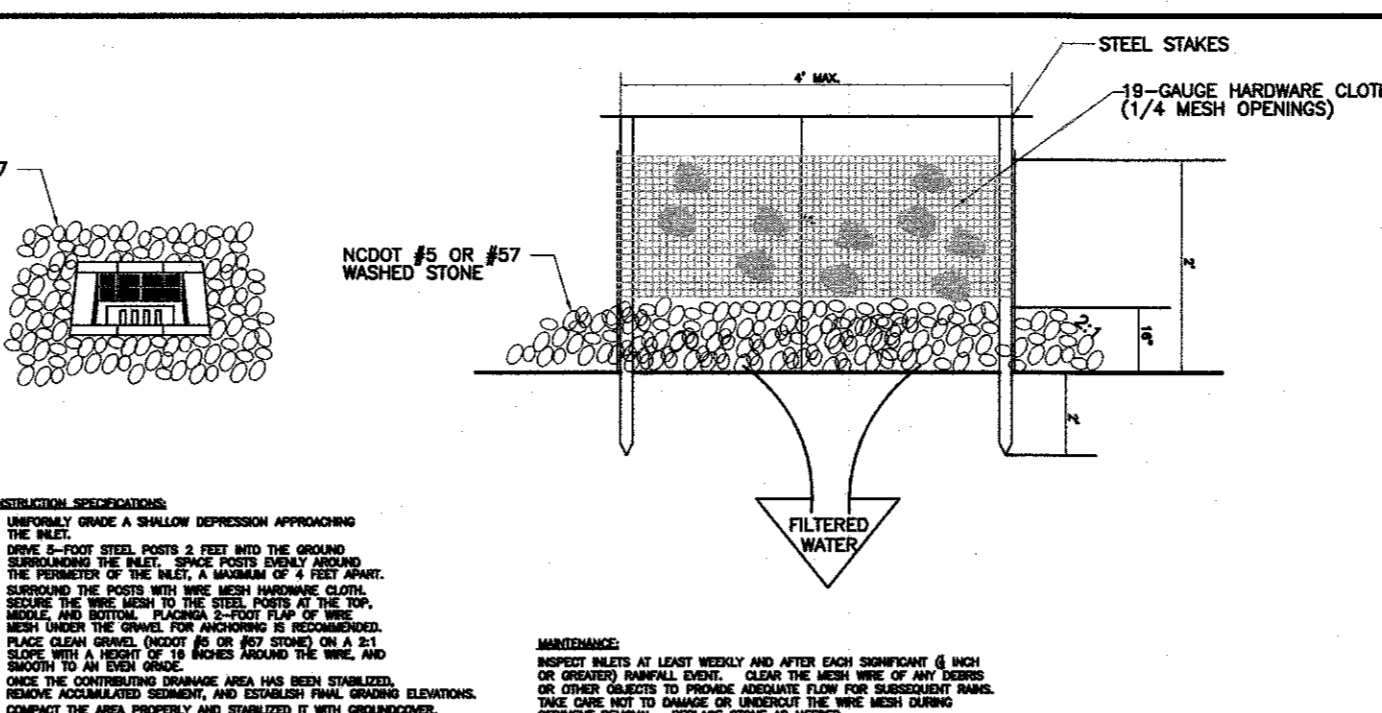
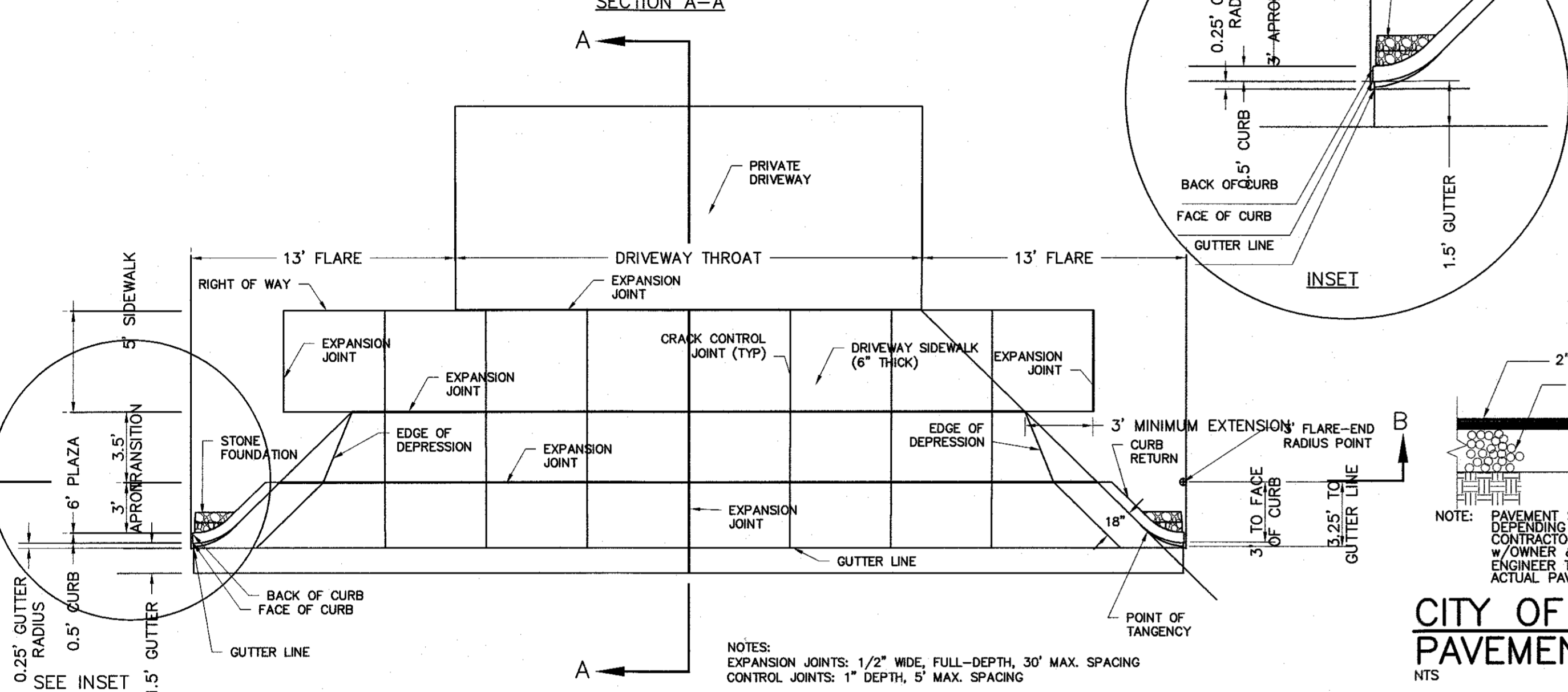
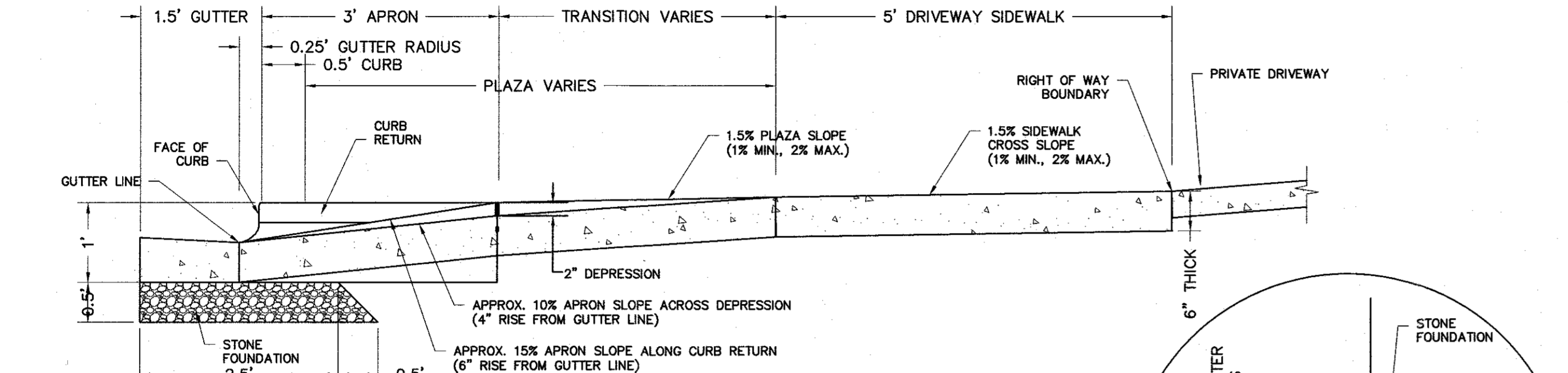
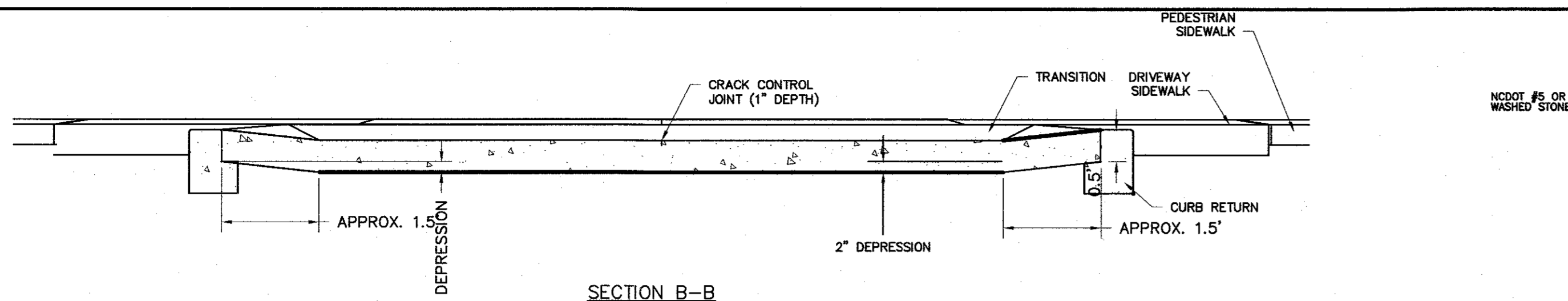


GRADING, DRAINAGE, EROSION CONTROL, AND STORMWATER MANAGEMENT PLAN  
**BURNT MILL BUSINESS PARK LOT 21**  
 3320 JAECKLE DRIVE  
 WILMINGTON, NORTH CAROLINA

**TRIPP ENGINEERING, P.C.**  
 419 Chestnut Street  
 Wilmington, North Carolina 28401  
 Phone 910-763-5100  
 Fax 910-763-5631  
 © TRIPP ENGINEERING, P.C.



DATE 01-24-18  
 DESIGN PGT  
 DRAWN MLV  
**C3**  
 SHEET 3 OF 5  
 17059

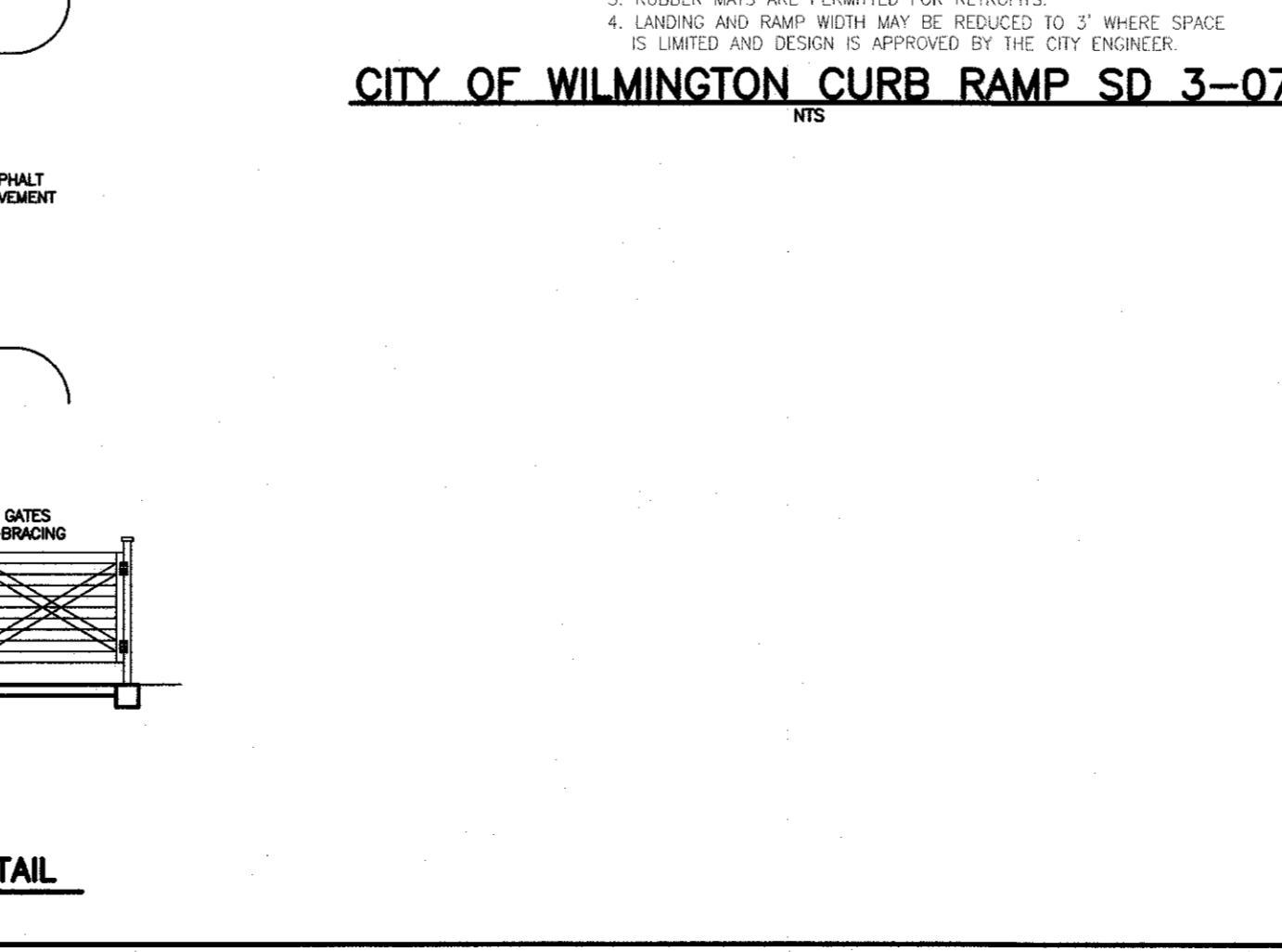


**STORMWATER MANAGEMENT PLAN APPROVED**  
**CITY OF WILMINGTON**  
**ENGINEERING DEPARTMENT**  
 DATE \_\_\_\_\_ PERMIT # \_\_\_\_\_  
 SIGNED \_\_\_\_\_

**Approved Construction Plan**

Name	Date
Planning _____	_____
Traffic _____	_____
Fire _____	_____

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.



SITE AREA DESCRIPTION	STABILIZATION TIMEFRAME	STABILIZATION TECHNIQUE
PERMETER DICES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (NOW) CONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 1:1 OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH
ALL OTHER AREAS	14 DAYS	NONE (EXCEPT FOR PERMETERS AND NOW ZONES)

**SPRING-SUMMER PERMANENT GRASSING DETAIL**

SPECIES	RATE (lb./acre)
PEROGONIA SPARGANOS	30
SURINA LEPIDOGON	30
COMMON FENUGRASS	30
ORANGE MALET	30

**SEEDING NOTES:**  
 1. MAKE A NEAT APPEARANCE IS DESIRED, OBTAIN SEEDS.  
 2. SEEDS SHALL BE STORED IN A COOL DRY PLACE.  
 3. SEEDS SHALL BE STORED IN A COOL DRY PLACE.  
 4. SEEDS SHALL BE STORED IN A COOL DRY PLACE.  
 5. SEEDS SHALL BE STORED IN A COOL DRY PLACE.

**FALL-WINTER PERMANENT GRASSING DETAIL**

SPECIES	RATE (lb./acre)
TALL FESCUE (BEND OF TWO OR MORE (HYBRID TWEETS))	30

**SEEDING DATES:**  
 JANUARY - APRIL  
 MAY - AUGUST

**LATE WINTER & EARLY SPRING TEMPORARY GRASSING DETAIL**

SPECIES	RATE (lb./acre)
Blue (grain)	100
Annual lespedeza (Kobe in Florida)	50

**SEEDING DATES:**  
 Mountains - Above 2500 ft. Feb. 15-May 15  
 Piedmont - Jan. 1-May 1  
 Coastal Plain - Feb. 1-May 15

**TEMPORARY SUMMER GRASSING DETAIL**

SPECIES	RATE (lb./acre)
GERMAN MILLET	40

**SEEDING DATES:**  
 MOUNTAINS - MAY 15-AUG. 15  
 PIEDMONT - MAY 1-AUG. 15  
 COASTAL PLAIN - APR. 15-AUG. 15

**TEMPORARY FALL GRASSING DETAIL**

SPECIES	RATE (lb./acre)
Blue (grain)	100

**SEEDING DATES:**  
 MOUNTAINS - AUG. 15-DEC. 15  
 PIEDMONT - MAY 1-AUG. 15  
 COASTAL PLAIN - APR. 15-DEC. 30

- SITE WORK NOTES:**
- THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS BOTH ON AND IMMEDIATELY ADJACENT TO THE SITE.
  - CLEARING: CONTRACTOR SHALL REMOVE ALL TREES AND VEGETATION WITHIN LIMITS OF CONSTRUCTION UNLESS OTHERWISE DESIGNATED TO REMAIN.
  - GRUBBING AND STRIPPING: CONTRACTOR SHALL RAKE AND REMOVE ROOTS, STUMPS, VEGETATION, DEBRIS, EXISTING STRUCTURES ABOVE AND BELOW GRADE, ORGANIC MATERIAL OR ANY OTHER UNSUITABLE MATERIAL WITHIN LIMITS OF CONSTRUCTION.
  - MUCKING: CONTRACTOR SHALL COORDINATE WITH OWNER AND THEIR GEOTECHNICAL REPRESENTATIVE TO COORDINATE REMOVAL OF ANY SOFT AREAS.
  - DISPOSAL: ALL GRUBBED, STRIPPED OR OTHER WASTE MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A PROPERLY PERMITTED FACILITY.
  - FILL AND COMPACTION SHOULD COMPLY WITH GEOTECHNICAL REPORT.
  - THE CONTRACTOR SHALL NOTE THAT THE GRADING PLAN MAY NOT REPRESENT A BALANCED EARTHWORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUT AND FILL QUANTITIES AND COMPLETE INSTALLATION TO SPECIFIED GRADES.
  - THE CONTRACTOR SHALL FURNISH SUITABLE BORROW MATERIAL FROM AN OFF-SITE PROPERLY PERMITTED FACILITY AS REQUIRED.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. BEFORE COMMENCING ANY EXCAVATIONS IN OR ALONG ROADWAYS OR RIGHT-OF-WAYS, PUBLIC AREAS OR IN PRIVATE EASEMENTS, THE CONTRACTOR SHALL NOTIFY APPROPRIATE PERSONNEL IN WRITING OF THEIR INTENT TO EXCAVATE, IN WRITING, NOT LESS THAN 10 DAYS PRIOR TO EXCAVATING.
  - THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE DISCONNECTION/ RECONNECTION AND/OR THE RELOCATION OF ALL EXISTING UTILITIES WITH APPROPRIATE PERSONNEL.
  - EXISTING SURVEYING PROVIDED & SUPPLIED BY C.L. GLOVER COMPANY.
  - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE SITE. FURTHERMORE, THE CONTRACTOR SHALL REPORT ALL DISCREPANCIES OR QUESTIONS TO THE ENGINEER PRIOR TO INSTALLATION.
  - THE CONTRACTOR SHALL PROVIDE ANY AND ALL LAYOUT REQUIRED TO CONSTRUCT HIS WORK UNLESS OTHERWISE DIRECTED BY OWNER.
  - ALL PVC UTILITY MAINS SHALL BE INSTALLED WITH A MINIMUM OF 36" COVER AT FINAL GRADE.
  - ALL SERVICE CONNECTIONS SHALL BE INSTALLED TO MEET ALL LOCAL AND STATE CODES, METERS, TAPS, MATERIALS, WORKMANSHIP AND ALL FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL COMPLY WITH ALL REQUIREMENTS.
  - ALL PAVEMENT, BASE AND SUBGRADE SHALL CONFORM TO NCDOT STANDARDS INCLUDING WORKMANSHIP, MATERIALS AND EQUIPMENT. APPROPRIATE BARRIERS, SIGNS, LIGHTS OR OTHER TRAFFIC CONTROL DEVICES SHALL BE PROVIDED IN ACCORDANCE WITH NCDOT TO MAINTAIN SAFETY AND TWO WAY TRAFFIC.
  - ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO INSTALLATION. ALL AREAS SHALL BE SLOPED TO DRAIN AWAY FROM BUILDINGS AT ALL TIMES.
  - CONCRETE STORM DRAINAGE SHALL BE CLASS III WITH RUBBER GASKETED JOINTS AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
  - USE WHITE LANE MARKING PAINT FOR ALL PAVEMENT MARKINGS. PAINT SHALL BE A CHLORINATED RUBBER ALKYL, FS TT-P-115, TYPE III, FACTORY MIXED, QUICK DRYING, NON BLEEDING, REFLECTIVE MATERIAL. MAY BE ADDED AT OWNER'S OPTION FOR NIGHT REFLECTING.
  - DUCTILE IRON SHALL BE CLASS 50.
  - CONCRETE FOR WALKS, CURBS AND DRIVES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS - AIR ENTRAINED.
  - FIELD TESTING SHALL BE DONE BY AN INDEPENDENT TESTING LABORATORY PAID FOR BY THE OWNER. FURTHER TESTING REQUIRED DUE TO A FAILED TEST WILL BE PAID FOR BY THE CONTRACTOR.
  - SEE GEOTECHNICAL REPORT NO. \_\_\_\_\_ DATED \_\_\_\_\_ BY \_\_\_\_\_ FOR ADDITIONAL REQUIREMENTS.

- CONSTRUCTION REQUIREMENTS:**
- NO CUT SLOPE OR FILL SLOPE SHALL EXCEED A RISE OR FALL OF ONE FOOT FOR EVERY RUN OF 3 FEET (1 VERTICAL TO 3 HORIZONTAL).
  - NO SEDIMENT WILL BE ALLOWED TO EXIT THE SITE. ALL EROSION SHALL BE CONTROLLED, INCLUDING SIDE SLOPES, AFTER CONSTRUCTION.
  - INSTALL PRIMARY EROSION CONTROL MEASURES BEFORE BEGINNING CONSTRUCTION INCLUDING BUT NOT LIMITED TO GRAVELED CONSTRUCTION ENTRANCE, SILT FENCE, CHECK DAMS, ETC. INSTALL ALL SECONDARY EROSION CONTROL MEASURES AS SOON AS POSSIBLE AFTER BEGINNING CONSTRUCTION.
  - ALL EROSION CONTROL MEASURES TO BE INSPECTED AFTER EACH RAIN. SILT FENCE AND INLET PROTECTION ARE TO BE CLEANED WHEN 0.5 FEET OF SEDIMENT HAVE ACCUMULATED IN FRONT OF THE DEVICE OR WHEN THEY LEAK OR FAIL. SEDIMENT TRAPS ARE CLEANED OUT AS INLET OR WHEN HALF FULL.
  - IF APPLICABLE, CONSTRUCT PROPOSED RETENTION POND TO ACT AS A SEDIMENT BASIN DURING CONSTRUCTION. REMOVE ACCUMULATION OF SILT AS REQUIRED TO ALLOW PROPER FLOW. RESTORE POND TO DESIGN LEVELS AT THE COMPLETION OF CONSTRUCTION.
  - IF APPLICABLE, INSTALL DROP INLETS WITH INLET PROTECTION TO ACT AS SILT TRAPS DURING CONSTRUCTION. REMOVE ACCUMULATED SILT AS NEEDED TO PREVENT SILT FROM ENTERING STORM DRAIN PIPING.
  - A LAYER OF TOPSOIL SHALL BE APPLIED TO ALL NEW AREAS TO BE GRASSSED.
  - MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PROJECT IS COMPLETE.
  - MORE STRINGENT MEASURES MAY BE REQUIRED TO HALT EROSION IF THOSE ON THIS LIST ARE NOT EFFECTIVE.
  - REMOVE ALL TEMPORARY EROSION CONTROL MEASURES UPON COMPLETION OF CONSTRUCTION. ALL PERMANENT MEASURES SHALL BE WELL ESTABLISHED PRIOR TO PROJECT COMPLETION.

- MAINTENANCE PLAN:**
- ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL, BUT IN NO CASE, LESS THAN ONCE EVERY WEEK AND WITHIN 24 HOURS OF EVERY HALF INCH RAINFALL.
  - ALL POINTS OF EGRESS WILL HAVE CONSTRUCTION ENTRANCES THAT WILL BE PERIODICALLY TOP-DRESSED WITH AN ADDITIONAL 2 INCHES OF #4 STONE TO MAINTAIN PROPER DEPTH. THEY WILL BE MAINTAINED IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. IMMEDIATELY REMOVE OBJECTIONABLE MATERIAL SPILLED, WASHED OR TRACKED ONTO THE CONSTRUCTION ENTRANCE OR ROADWAYS.
  - SEDIMENT WILL BE REMOVED FROM HARDWARE CLOTH AND GRAVEL INLET PROTECTION, BLOCK AND GRAVEL INLET, ROCK DOWNSLOPE INLET PROTECTION AND ROCK PIPE INLET PROTECTION WHEN THE DESIGN STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS AS DESIGNED. DEBRIS WILL BE REMOVED FROM THE ROCK AND HARDWARE CLOTH TO ALLOW PROPER DRAINAGE. SILT SACKS WILL BE EMPTIED ONCE A WEEK AND AFTER EVERY RAIN EVENT. SEDIMENT WILL BE REMOVED FROM AROUND BEAVER DAMS, DANDY SACKS AND SOCKS ONCE A WEEK AND AFTER EVERY RAIN EVENT.
  - DIVERSION DITCHES WILL BE CLEANED OUT IMMEDIATELY TO REMOVE SEDIMENT OR OBSTRUCTIONS FROM THE FLOW AREA. THE DIVERSION RIDGES WILL ALSO BE REPAIRED. SWALES MUST BE TEMPORARILY STABILIZED WITHIN 21 CALENDAR DAYS OF CEASE OF ANY PHASE OF ACTIVITY ASSOCIATED WITH A SWALE.
  - SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES HALF FILLED. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER. STAKES MUST BE STEEL. STAKE SPACINGS WILL BE 6 FEET MAX. WITH THE USE OF EXTRA STRENGTH FABRIC. WITHOUT WIRE BACKING, STAKE SPACING WILL BE 8 FEET MAX. WHEN STANDARD STRENGTH FABRIC AND WIRE BACKING ARE USED. IF ROCK FILTERS ARE DESIGNED AT LOW POINTS IN THE INLET SEDIMENT FENCE THE ROCK WILL BE REPAIRED OR REPLACED IF IT BECOMES HALF FULL OF SEDIMENT, NO LONGER DRAINS AS DESIGNED OR IS DAMAGED.
  - SEDIMENT WILL BE REMOVED FROM SEDIMENT TRAPS WHEN THE DESIGN STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. THE ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS OR WHEN THE ROCK IS DISLODGED. BAFFLES WILL BE REPAIRED OR REPLACED IF THEY COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE. THEY WILL BE REPLACED PROMPTLY. SEDIMENT WILL BE REMOVED FROM BAFFLES WHEN DEPOSITS REACH HALF THE HEIGHT OF THE 1ST BAFFLE. FLOATING SKIMMERS WILL BE INSPECTED WEEKLY AND WILL BE KEPT CLEAN.
  - SEDIMENT WILL BE REMOVED FROM THE SEDIMENT BASIN WHEN THE DESIGN STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS OR IF THE ROCK IS DISLODGED. BAFFLES WILL BE REPAIRED OR REPLACED IF THEY COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE. THEY WILL BE REPLACED PROMPTLY. SEDIMENT WILL BE REMOVED FROM BAFFLES WHEN DEPOSITS REACH HALF THE HEIGHT OF THE 1ST BAFFLE. FLOATING SKIMMERS WILL BE INSPECTED WEEKLY AND WILL BE KEPT CLEAN.
  - ALL SEEDED AREAS WILL BE FERTILIZED, RESEED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER. ALL SLOPES WILL BE STABILIZED WITHIN 21 CALENDAR DAYS. ALL OTHER AREAS WILL BE STABILIZED WITHIN 15 WORKING DAYS.
  - FLOCCULANTS WILL BE USED TO ADDRESS TURBIDITY ISSUES. THE PUMPS, TANKS, HOSES AND INJECTION SYSTEMS WILL BE CHECKED FOR PROBLEMS OR TURBID CHARGES DAILY.

- TEMPORARY FALL GRASSING DETAIL**
- | SPECIES      | RATE (lb./acre) |
|--------------|-----------------|
| Blue (grain) | 100             |
- SEEDING NOTES:**  
 1. PERMETER AND SLOPES SHALL BE STABILIZED WITHIN 7 WORKING DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.  
 2. ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH PRACTICABLE BUT IN ANY EVENT, STABILIZATION SHALL BE PROVIDED WITHIN 15 WORKING DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.  
 3. CONDITIONS-NOT MEETING THE STABILIZATION REQUIREMENTS ABOVE, THE FOLLOWING CONDITIONS OR EXEMPTIONS SHALL APPLY:  
 a. EXTENSIONS OF THE PERMITTING AUTHORITY SHALL COMPLY WITH WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE.  
 b. ALL SLOPES 5:1 IN LENGTH OR GREATER SHALL APPLY TO GROUND COVER WITHIN 7 DAYS EXCEPT WHEN THE SLOPE IS FLATTER THAN 3:1. SLOPES GREATER THAN 5:1 SHALL APPLY GROUND COVER WITHIN 14 DAYS EXCEPT WHEN SLOPES ARE STEEPER THAN 3:1. THE 7-DAY REQUIREMENT APPLIES.  
 c. ANY SLOPE FLATTER THAN 3:1 SHALL BE EXEMPT FROM THE 7-DAY GROUND COVER REQUIREMENT.  
 d. SLOPES 1:1 OR LESS IN LENGTH SHALL BE EXEMPT FROM THE 7-DAY GROUND COVER REQUIREMENT EXCEPT WHEN THE SLOPE IS STEEPER THAN 3:1.  
 e. ALTHOUGH STABILIZATION IS USUALLY SPECIFIED AS GROUND COVER, OTHER METHODS, SUCH AS CHEMICAL STABILIZATION, MAY BE ALLOWED ON A CASE-BY-CASE BASIS.  
 f. FOR PORTIONS OF PROJECTS WITHIN THE SEDIMENT CONTROL COMMISSION-DEFINED "HIGH QUALITY WATER ZONE" (15A NCAC 04A, 0105), STABILIZATION WITH GROUND COVER SHALL BE ACHIEVED AS SOON AS PRACTICABLE BUT IN ANY EVENT ON ALL AREAS OF THE SITE WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
- MAINTENANCE:**  
 Apply 4,000 lb./acre straw anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

**REVISIONS**

No. / Date	Description	By

**DETAILS AND NOTES**

**TRIPP ENGINEERING, P.C.**  
 419 Chestnut Street  
 Wilmington, North Carolina 28401  
 Phone 910-763-5100  
 Fax 910-763-5631  
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**BURNT MILL BUSINESS PARK LOT 21**  
 3320 JAECKLE DRIVE  
 WILMINGTON, NORTH CAROLINA

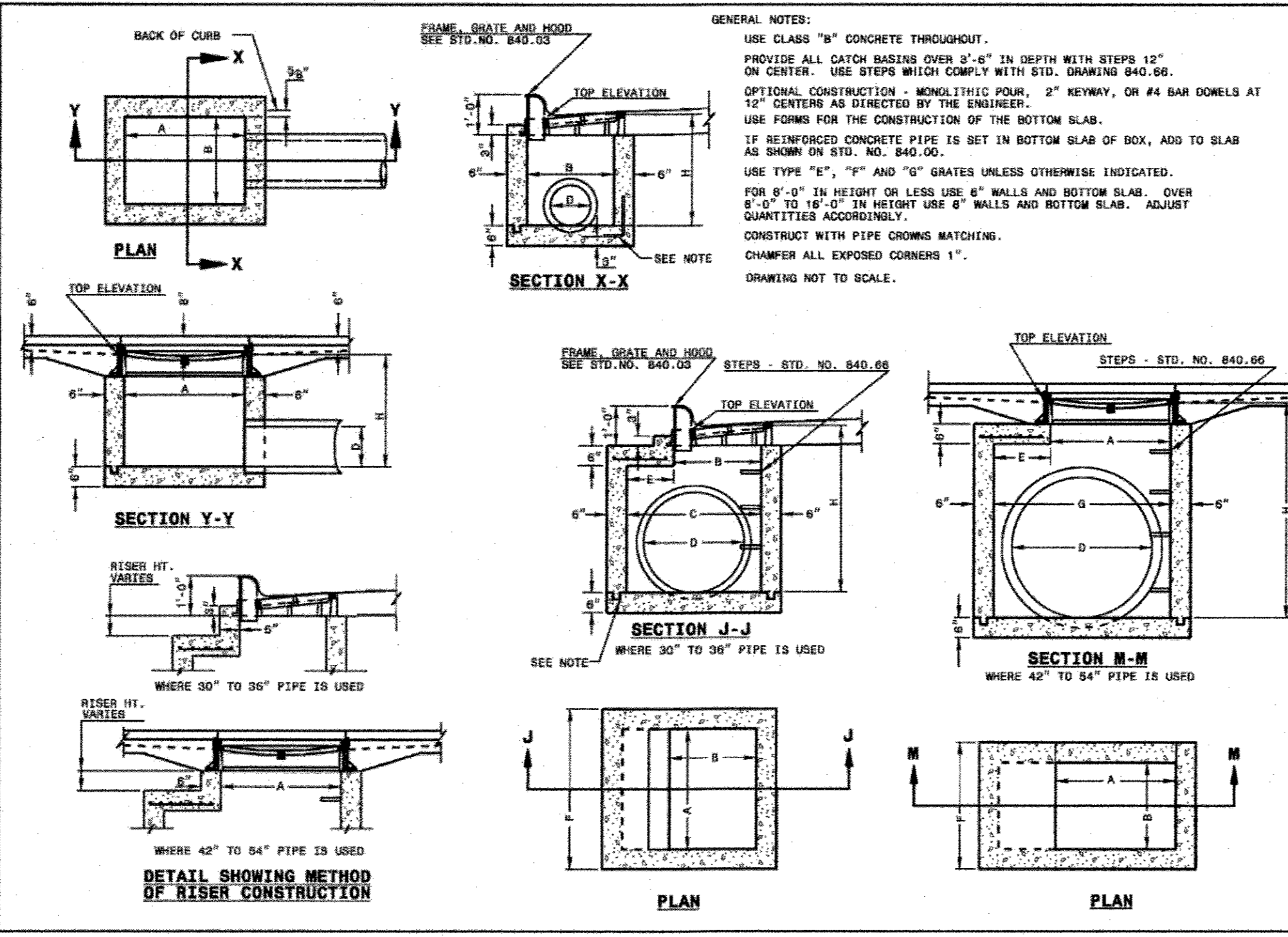
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**C4**  
 SHEET 4 OF 5  
 17059

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N. C.

ENGLISH STANDARD DRAWING FOR CONCRETE CATCH BASIN 12" THRU 54" PIPE

SHEET 1 OF 2  
840.02



STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N. C.

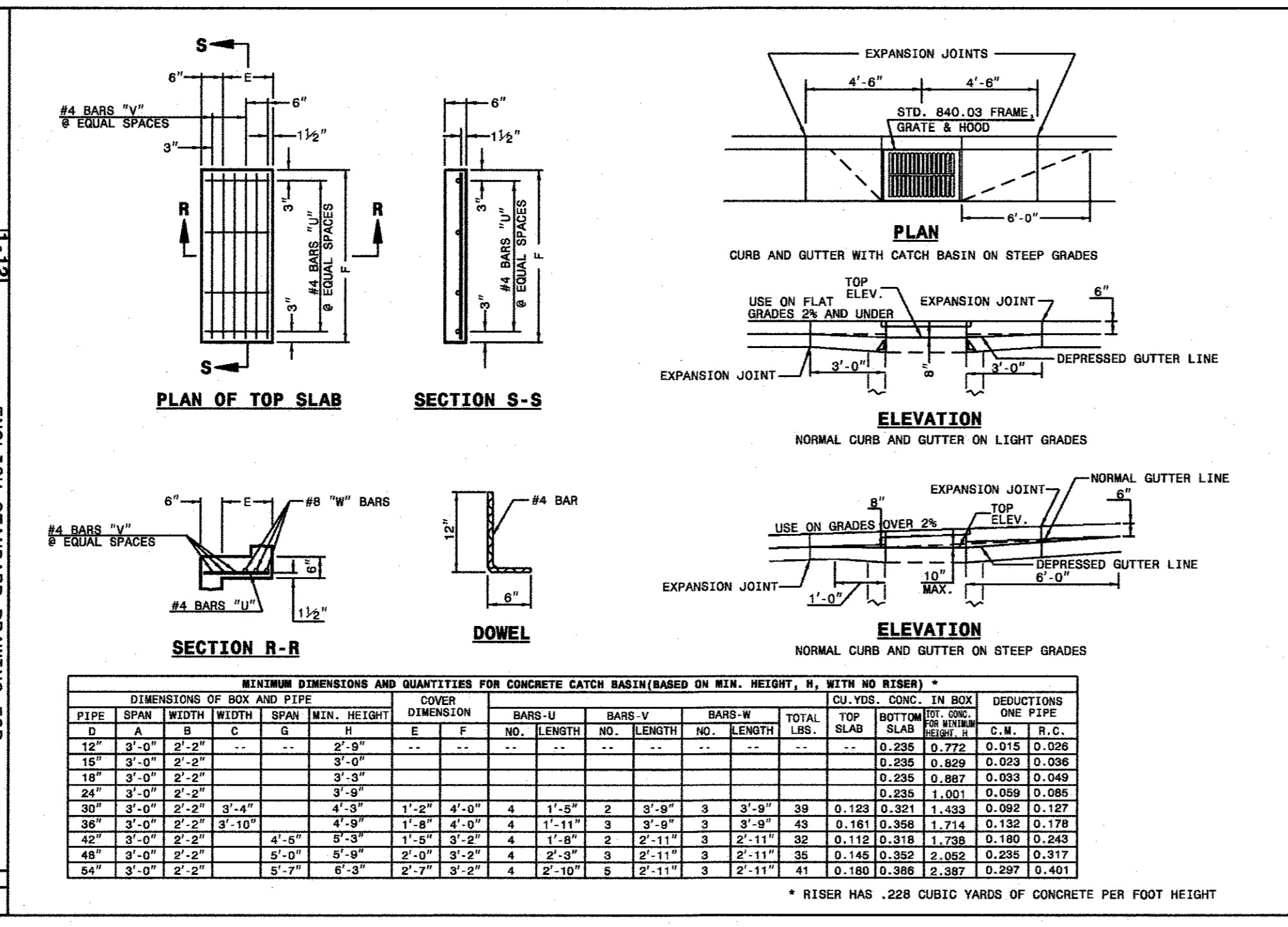
ENGLISH STANDARD DRAWING FOR CONCRETE CATCH BASIN 12" THRU 54" PIPE

SHEET 1 OF 2  
840.02

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N. C.

ENGLISH STANDARD DRAWING FOR CONCRETE CATCH BASIN 12" THRU 54" PIPE

SHEET 2 OF 2  
840.02



STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N. C.

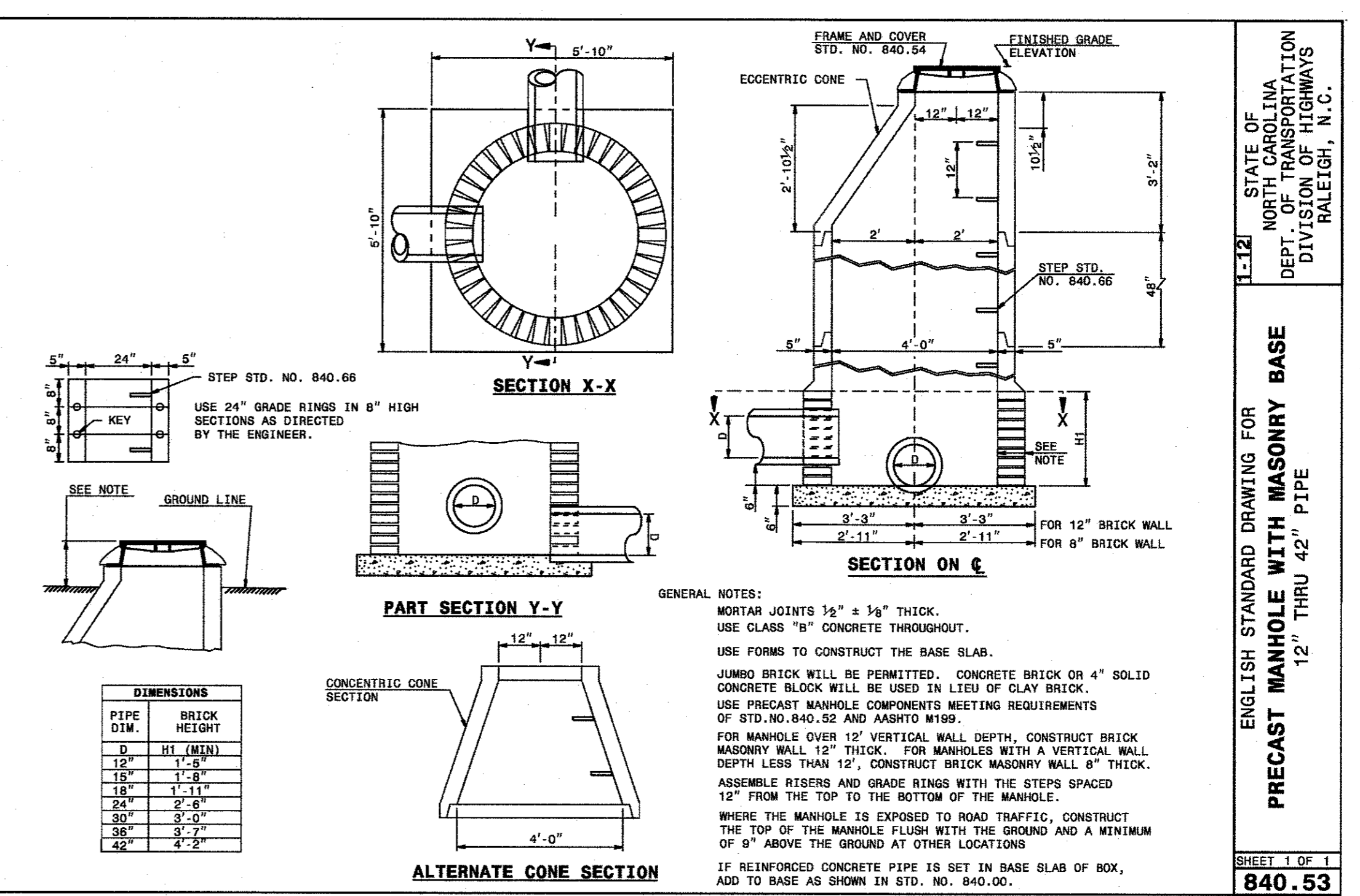
ENGLISH STANDARD DRAWING FOR CONCRETE CATCH BASIN 12" THRU 54" PIPE

SHEET 2 OF 2  
840.02

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N. C.

ENGLISH STANDARD DRAWING FOR PRECAST MANHOLE WITH MASONRY BASE 12" THRU 42" PIPE

SHEET 1 OF 1  
840.53



STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N. C.

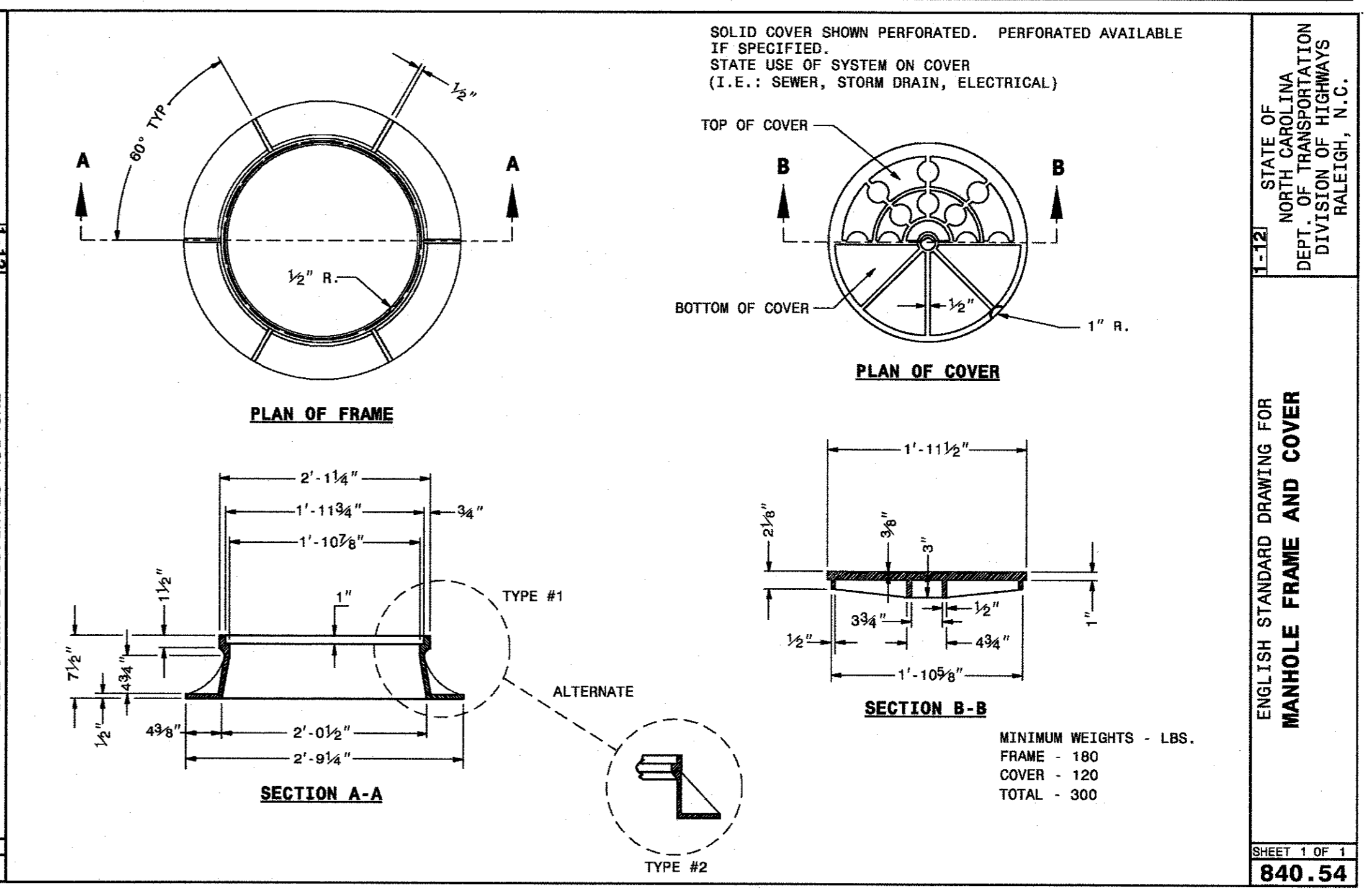
ENGLISH STANDARD DRAWING FOR PRECAST MANHOLE WITH MASONRY BASE 12" THRU 42" PIPE

SHEET 1 OF 1  
840.53

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N. C.

ENGLISH STANDARD DRAWING FOR MANHOLE FRAME AND COVER 12" THRU 54" PIPE

SHEET 1 OF 1  
840.54



STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N. C.

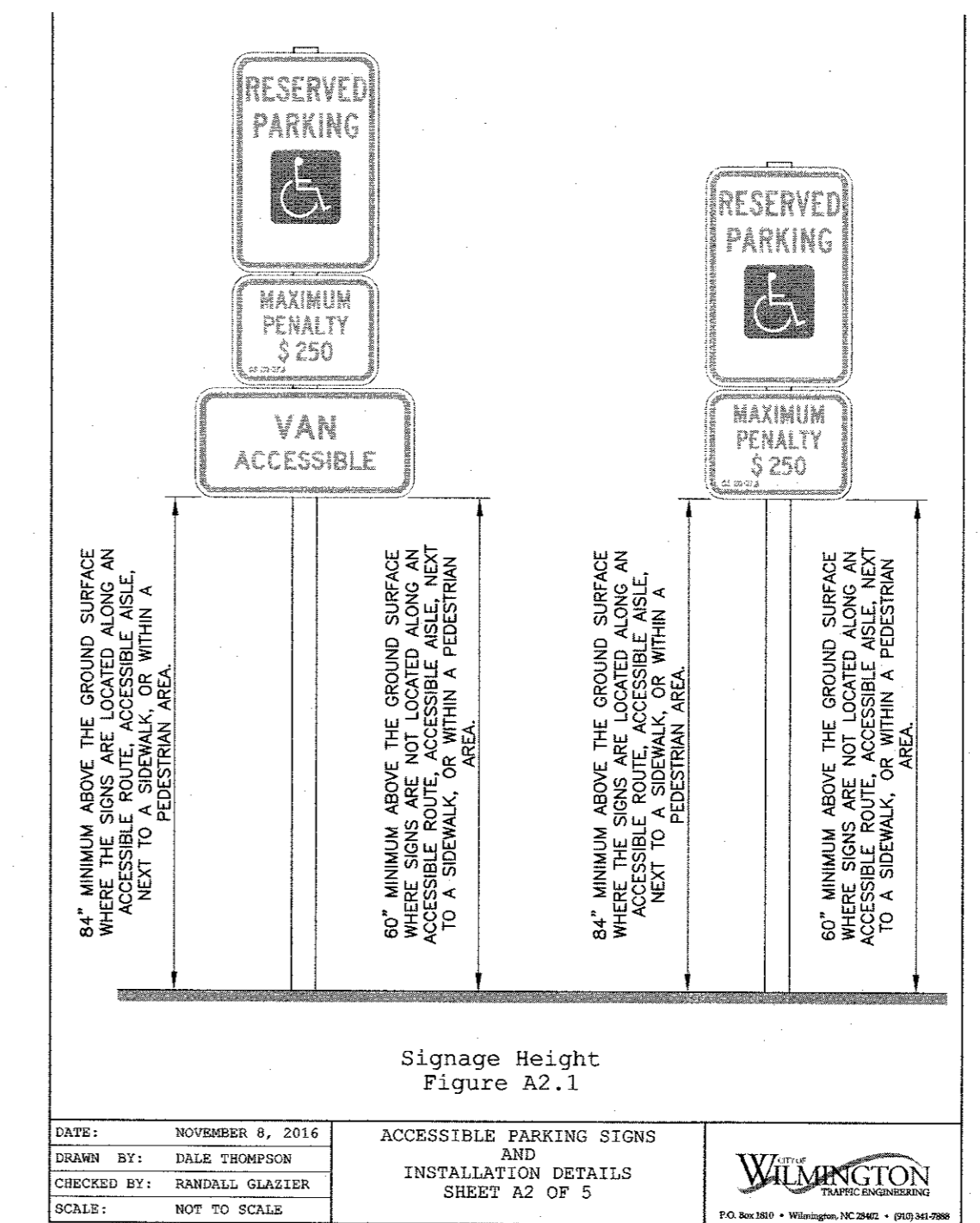
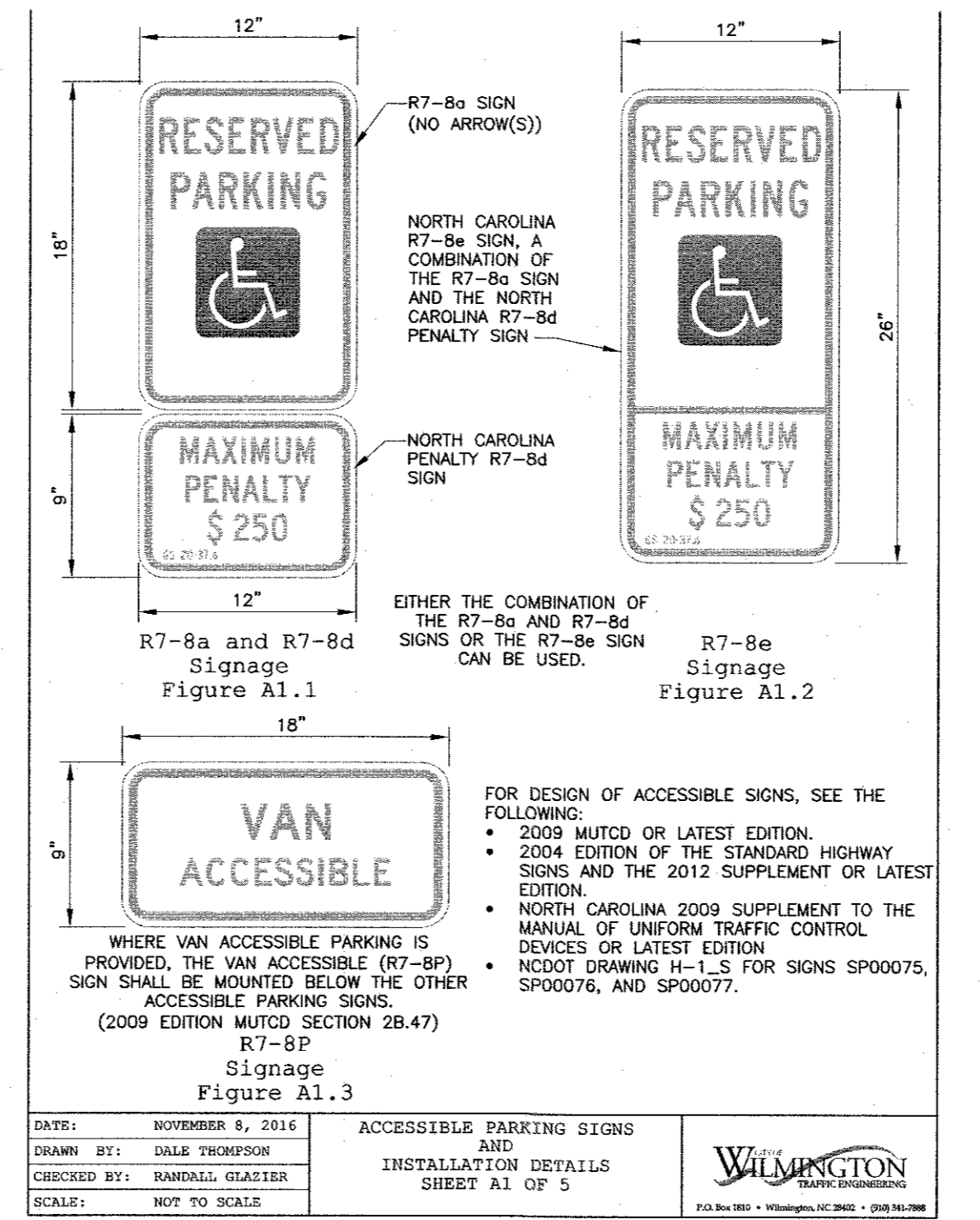
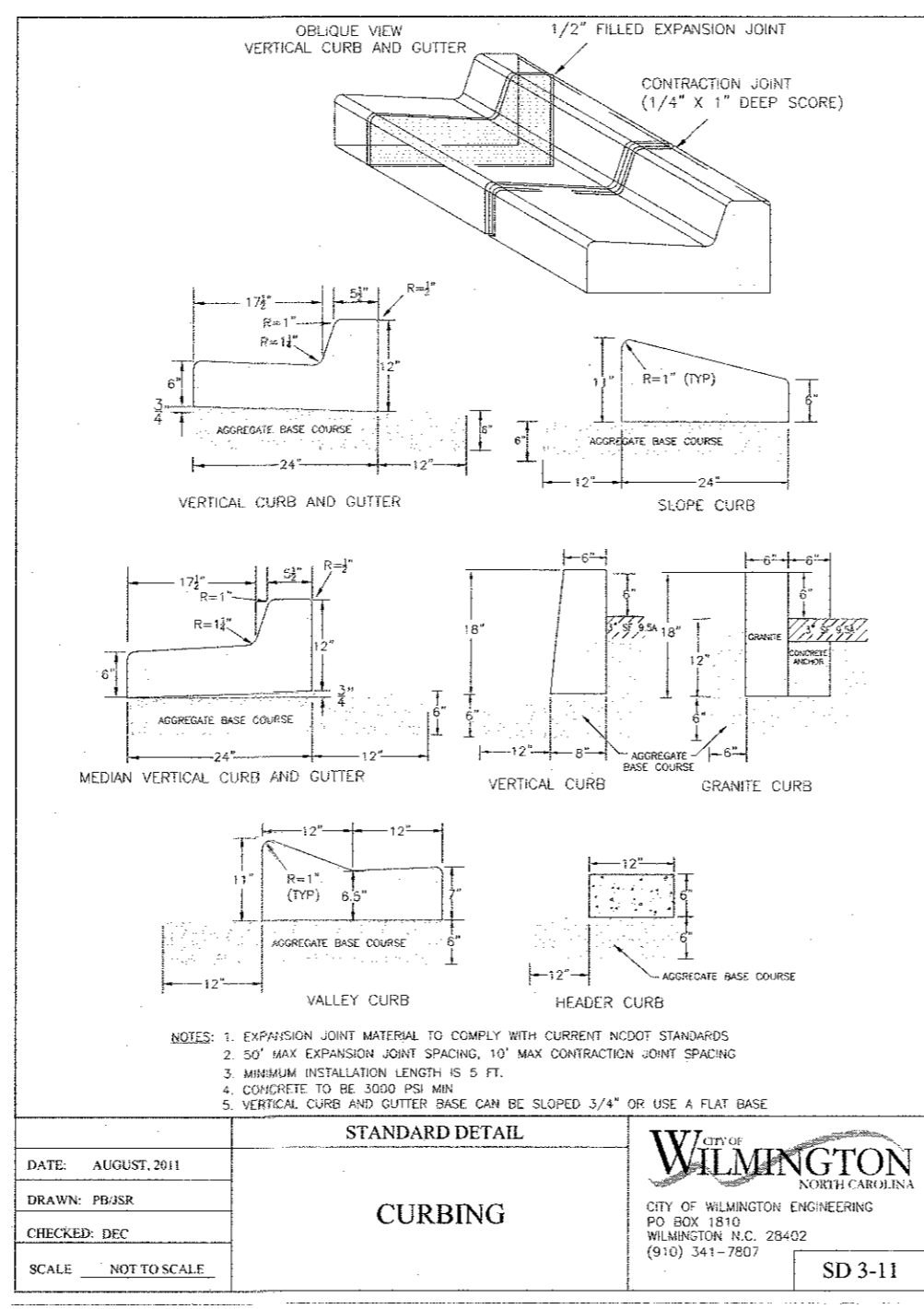
ENGLISH STANDARD DRAWING FOR MANHOLE FRAME AND COVER 12" THRU 54" PIPE

SHEET 1 OF 1  
840.54

STORMWATER MANAGEMENT PLAN APPROVED  
 CITY OF WILMINGTON  
 ENGINEERING DEPARTMENT  
 DATE \_\_\_\_\_ PERMIT # \_\_\_\_\_  
 SIGNED \_\_\_\_\_

Approved Construction Plan  
 Name \_\_\_\_\_ Date \_\_\_\_\_  
 Planning \_\_\_\_\_  
 Traffic \_\_\_\_\_  
 Fire \_\_\_\_\_

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.



REVISIONS

No.	Date	Description	By

TRIPP ENGINEERING, P.C.  
 419 Chestnut Street  
 Wilmington, North Carolina 28401  
 Phone 910-763-5100  
 Fax 910-763-5631  
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DATE 01-24-18  
 DESIGN PCT  
 DRAWN MLV

C5  
 SHEET 5 OF 5  
 17059