

REVISIONS

No.	Date	Description	By
1	08-18-18	PREPARED FOR PERMIT	MLV
2	08-18-18	REVISION ON LOT 20	MLV

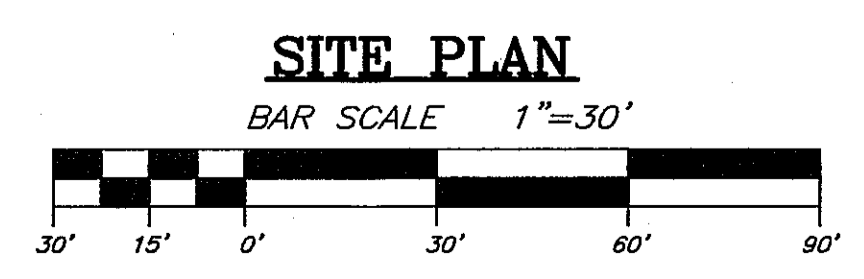
LOCATION MAP
NTS

- SITE INVENTORY NOTES:**
- PREPARER OF THE PLAN: TRIPP ENGINEERING, P.C.
 - APPLICANT NAME: ABINTO CORPORATION
 - SITE ADDRESS OF THE DEVELOPMENT: 3320 JAECKLE DRIVE
 - PROPERTY OWNER: ABINTO CORPORATION
 - DEVELOPER: ABINTO CORPORATION
 - PROPERTY BOUNDARY: SEE PLAN
TAX PARCEL INFORMATION: R05505-004-025-000
 - PROPERTY ZONING: O&I-1; OFFICE AND INSTITUTIONAL DISTRICT
 - ADJACENT PROPERTY OWNER INFORMATION: SEE PLAN
 - VICINITY MAP: SEE PLAN
 - TOPOGRAPHY: SEE PLAN
 - 100-YEAR FLOOD BOUNDARY: N/A
 - EXISTING DITCHES, CREEKS AND STREAMS: SEE PLAN
 - SOIL: Kc; KENANSVILLE FINE SAND AND JO; JOHNSTON
 - CAMA AEC: N/A
 - CAMA LAND CLASSIFICATION: URBAN
 - CONSERVATION RESOURCES: NONE
ASSOCIATED SETBACKS: N/A
 - HISTORIC OR ARCHAEOLOGICAL SITE: N/A
 - CEMETERIES, BURIAL SITES/GROUNDS: N/A
 - FORESTED AREAS, HABITAT AND DOMINANT SPECIES: N/A
 - WETLANDS: NONE
 - PROTECTED SPECIES OR HABITAT: N/A
 - EXISTING OR PROPOSED THROUGHFARES, BIKE ROUTES, PEDESTRIAN SIDEWALKS OR TRAILS AND TRANSIT FACILITIES: SEE SITE PLAN
 - 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"E	122.28'	8°26'55"
C5	9.51'	830.00'	N33°24'11"W	9.51'	0°39'24"
C6	24.33'	1300.00'	N48°42'25"E	24.29'	10°43'21"

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



CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: 8/15/18 Permit #2018025
Signed: *[Signature]*

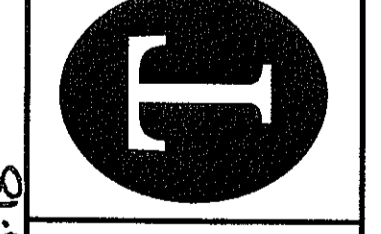
Approved Construction Plan

Name	Date
Planning <i>[Signature]</i>	8-14-18
Traffic <i>[Signature]</i>	8-14-18
Fire <i>[Signature]</i>	8-16-18

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

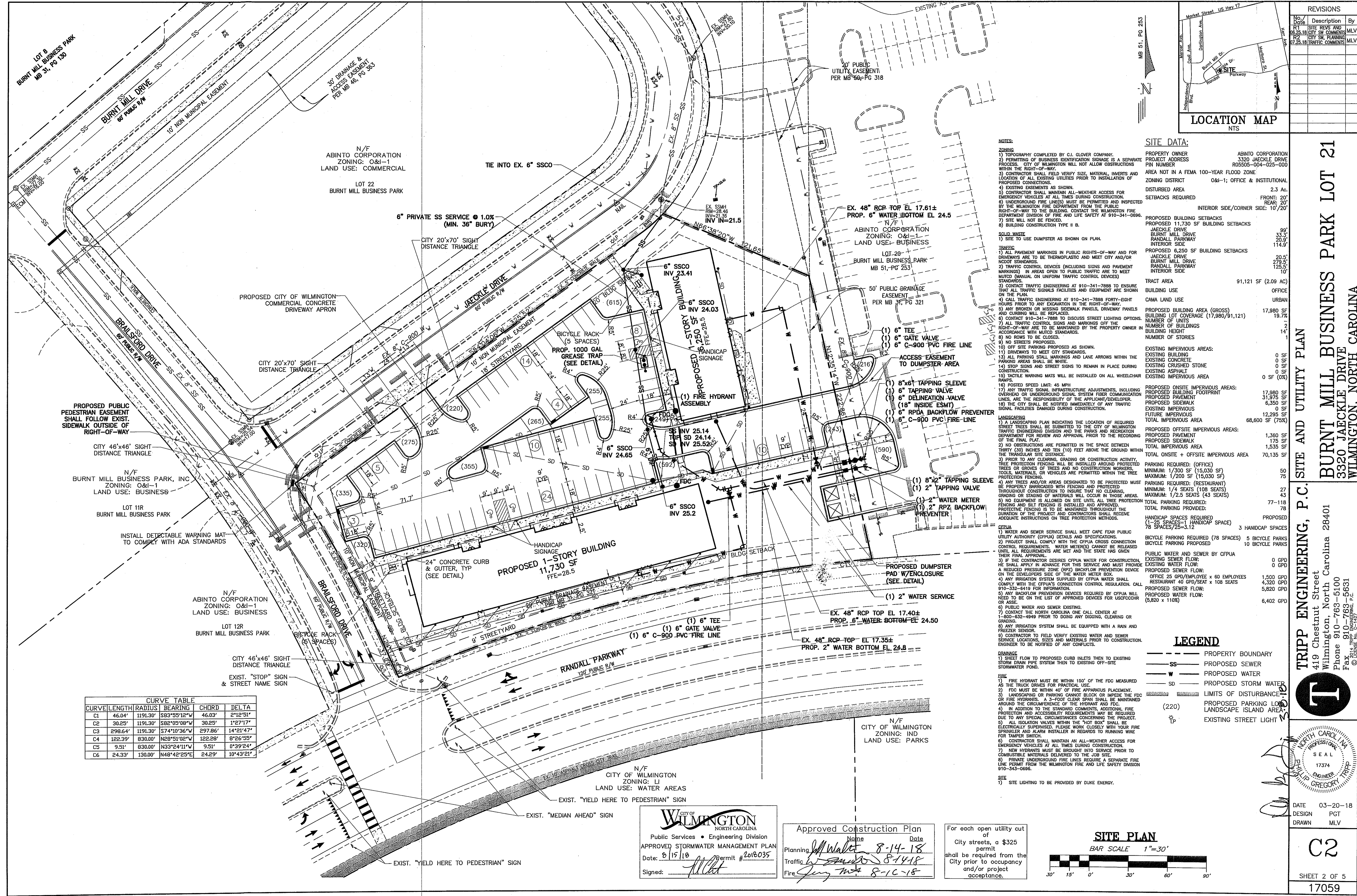
EXISTING CONDITIONS, SITE INVENTORY, AND DEMOLITION PLAN
BURNT MILL BUSINESS PARK LOT 21
3320 JAECKLE DRIVE
WILMINGTON, NORTH CAROLINA

TRIPP ENGINEERING, P.C.
419 Chestnut Street
Wilmington, North Carolina 28401
Phone 910-763-5100
Fax 910-763-5631
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LICENSE NO. C-127

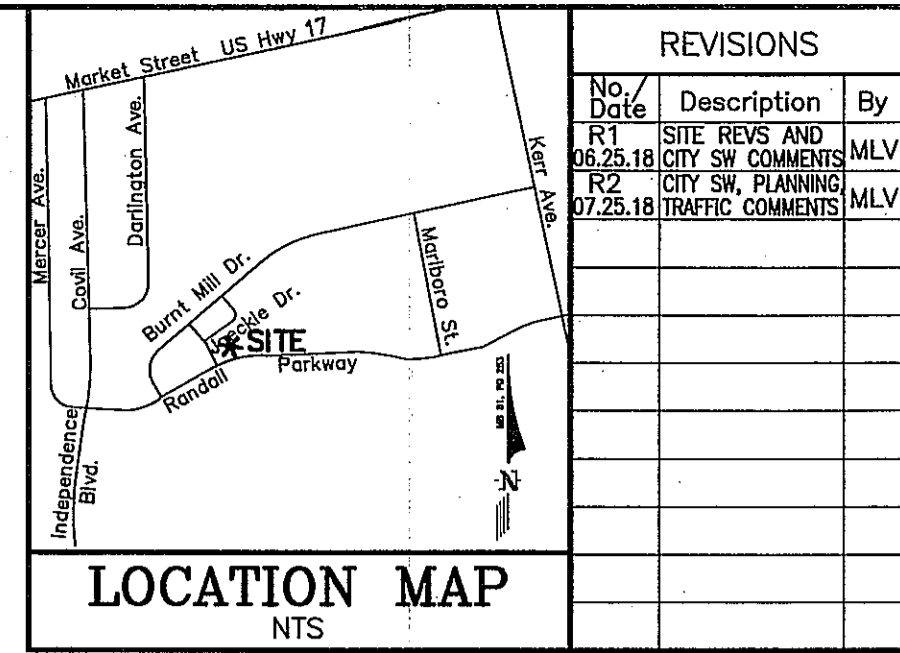


DATE 03-08-18
DESIGN PGT
DRAWN MLV

C1
SHEET 1 OF 5
17059



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"
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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"



REVISIONS		
No./Date	Description	By
06/25/18	SITE REVISIONS AND COMMENTS	MLV
07/25/18	CITY SW PLANNING COMMENTS	MLV
07/25/18	TRAFFIC COMMENTS	MLV

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: 2.3 Ac.
 SETBACKS REQUIRED: FRONT: 20'
 REAR: 20'
 INTERIOR SIDE/CORNER SIDE: 10'/20'

- NOTES:**
- 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 LINES 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.
- 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 EXCAVATION OF THE RIGHT-OF-WAY.
 - 5) ANY BROKEN OR MISSING SIDEWALK 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 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 SHALL MARKINGS AND LANE ARROWS WITHIN THE TRAFFIC CONTROL DEVICES ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
 - 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) 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) ANY OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (10) FEET ABOVE THE GROUND WITHIN THE TRIANGULAR SITE DISTANCE.
 - 3) 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 BARRICADED 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 IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT AND CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTIONS ON TREE PROTECTION METHODS.
- CEPIA:**
- 1) WATER AND SEWER SERVICE SHALL MEET CAPE FEAR PUBLIC UTILITY AUTHORITY (CPFA) DETAILS AND SPECIFICATIONS.
 - 2) PROJECT SHALL COMPLY WITH THE CPFA 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 CPFA 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 CPFA WATER SHALL COMPLY WITH THE CPFA'S CONNECTION CONTROL REGULATION. CALL 910-332-8419 FOR INFORMATION.
 - 5) ANY BACKFLOW PREVENTION DEVICES REQUIRED BY CPFA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES FOR USFCPCCHR OR ASSE.
 - 6) PUBLIC WATER AND SEWER EXISTING.
 - 7) CONTACT THE NORTH CAROLINA ONE CALL CENTER AT 1-800-432-4949 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 CANNOT BLOCK OR IMPEDE THE FDC OR FIRE HYDRANTS. 6'-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.
 - 6) CONTRACTOR SHALL MAINTAIN AN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
 - 7) NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIALS DELIVERED TO THE JOB SITE.
 - 8) PRIVATE UNDERGROUND FIRE LINES REQUIRE A SEPARATE FIRE LINE PERMIT FROM THE WILMINGTON FIRE AND LIFE SAFETY DIVISION 910-343-0868.
- SITE:**
- 1) SITE LIGHTING TO BE PROVIDED BY DUKE ENERGY.

PROPOSED BUILDING SETBACKS

JAECKLE DRIVE	9'
BURNT MILL DRIVE	33.3'
RANDALL PARKWAY	20.9'
INTERIOR SIDE	114.9'

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) 17,980 SF

BUILDING LOT COVERAGE (17,980/91,121) 19.7%

NUMBER OF UNITS 12

NUMBER OF BUILDINGS 1

BUILDING HEIGHT 4'

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	31,975 SF
PROPOSED SIDEWALK	6,350 SF
EXISTING IMPERVIOUS	0 SF
TOTAL IMPERVIOUS AREA	12,295 SF (75%)

PROPOSED OFFSITE IMPERVIOUS AREAS:

PROPOSED PAVEMENT	1,360 SF
PROPOSED SIDEWALK	175 SF
TOTAL IMPERVIOUS AREA	1,535 SF
TOTAL ONSITE + OFFSITE IMPERVIOUS AREA	70,135 SF

PARKING REQUIRED: (OFFICE)

MINIMUM: 1/300 SF (15,030 SF)	50
MAXIMUM: 1/200 SF (15,030 SF)	75

PARKING REQUIRED: (RESTAURANT)

MINIMUM: 1/4 SEATS (108 SEATS)	27
MAXIMUM: 1/2.5 SEATS (43 SEATS)	43

TOTAL PARKING PROVIDED: 77-118

TOTAL PARKING REQUIRED: 77-118

HANDICAP SPACES REQUIRED (1-25 SPACES=1 HANDICAP SPACE) 3 HANDICAP SPACES

75 SPACES/25=3.12

BICYCLE PARKING REQUIRED (78 SPACES) 5 BICYCLE SPACES

BICYCLE PARKING PROVIDED 10 BICYCLE SPACES

PUBLIC WATER AND SEWER BY CPFA

EXISTING SEWER FLOW:	0 GPD
EXISTING WATER FLOW:	0 GPD
PROPOSED SEWER FLOW:	1,600 GPD
OFFICE 25 GPD/EMPLOYEE x 60 EMPLOYEES	1,500 GPD
RESTAURANT 40 GPD/SEAT x 108 SEATS	4,320 GPD
PROPOSED WATER FLOW:	5,820 GPD
PROPOSED WATER FLOW:	6,402 GPD
(5,820 x 1.102)	

LEGEND

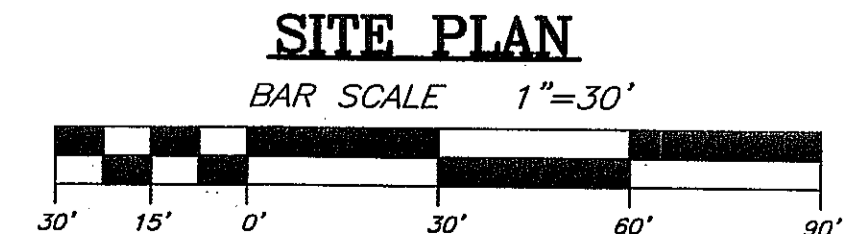
- PROPERTY BOUNDARY
- SS PROPOSED SEWER
- W PROPOSED WATER
- SD PROPOSED STORM WATER
- LIMITS OF DISTURBANCE ---
- (220) PROPOSED PARKING LANDSCAPE ISLAND AREA
- ⊕ EXISTING STREET LIGHT

WILMINGTON
 NORTH CAROLINA
 Public Services • Engineering Division
 APPROVED STORMWATER MANAGEMENT PLAN
 Date: 8/15/18 Permit # 2018035
 Signed: [Signature]

Approved Construction Plan

Name	Date
Planning [Signature]	8-14-18
Traffic [Signature]	8-14-18
Fire [Signature]	8-16-18

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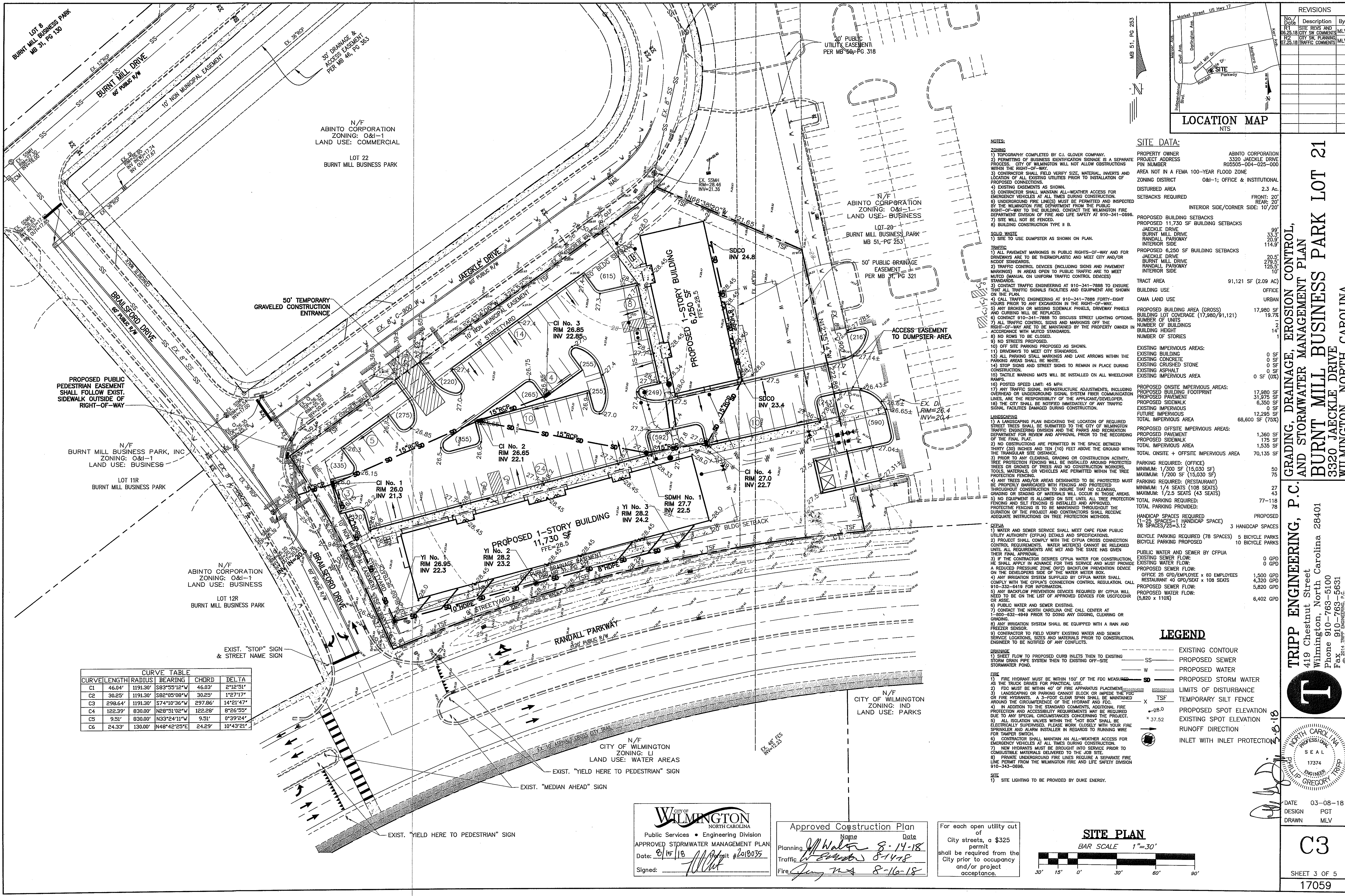
TRIPP ENGINEERING, P.C.
 419 Chestnut Street
 Wilmington, North Carolina 28401
 Phone 910-763-6100
 Fax 910-763-6631
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WILMINGTON PROFESSIONAL SEAL
 17374
 ENGINEER
 GREGORY TRIPP

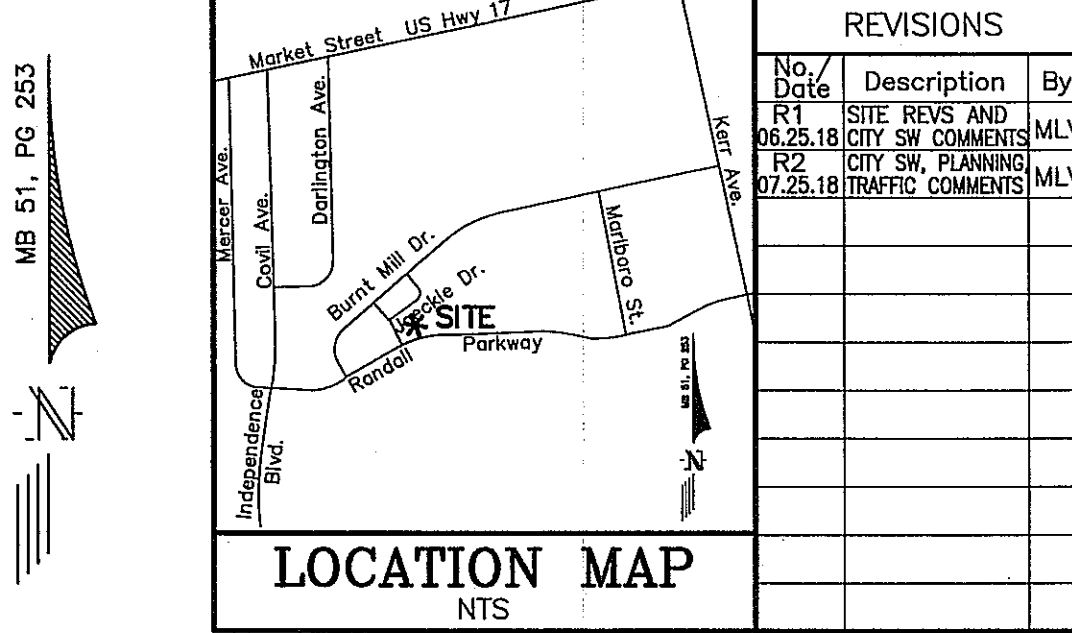
DATE 03-20-18
 DESIGN PGT
 DRAWN MLV

C2

SHEET 2 OF 5
 17059



CURVE TABLE				
CURVE	LENGTH	RADIUS	BEARING	DELTA
C1	46.04'	1191.30'	S83°55'12"W	46.03'
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REVISIONS		
No.	Date	Description
R1	06/25/18	DATE SITE REVISED
R2	07/25/18	CITY SW. PLANNING COMMENTS
R3	07/25/18	TRAFFIC COMMENTS

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	2.3 AC
SETBACKS REQUIRED	FRONT: 20' REAR: 20' INTERIOR SIDE/CORNER SIDE: 10'/20'

- NOTES:**
- 1) TOPOGRAPHY COMPILED 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 LINES 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 910-341-0866.
 - 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.
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 - 4) CALL TRAFFIC ENGINEERING AT 910-341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION OF THE RIGHT-OF-WAY.
 - 5) ANY BROKEN OR MISSING SIDEWALK 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 ON 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 AS SHOWN.
 - 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) 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.
 - 17) THE CITY SHALL BE NOTIFIED IMMEDIATELY OF ANY TRAFFIC SIGNAL FACILITIES DAMAGED DURING CONSTRUCTION.

- LANDSCAPING**
- 1) LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON ON THE ENGINEERING PLAN AND APPROVED BY THE CITY ENGINEERING DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAN.
 - 2) NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN TREE (30) INCHES AND TEN (10) FEET ABOVE THE GROUND WITHIN THE TRIANGULAR TREE DISTANCE.
 - 3) PRIOR TO ANY CLEARING, 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 BARRICADED 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 SIGN 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.
- CFPUA**
- 1) WATER AND SEWER SERVICE SHALL MEET CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) DETAILS AND SPECIFICATIONS.
 - 2) PROJECT SHALL COMPLY WITH THE CFPUA 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 CFPUA 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 CFPUA WATER SHALL COMPLY WITH THE CFPUA'S CONNECTION CONTROL REGULATION. CALL 910-332-6419 FOR INFORMATION.
 - 5) ANY BACKFLOW PREVENTION DEVICES REQUIRED BY CFPUA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES FOR USCFCOHR OR ASSE.
 - 6) PUBLIC WATER AND SEWER EXISTING.
 - 7) CONTACT THE NORTH CAROLINA ONE CALL CENTER AT 1-800-692-6849 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.

LEGEND

---	EXISTING CONTOUR
---	PROPOSED SEWER
---	PROPOSED WATER
---	PROPOSED STORM WATER
---	LIMITS OF DISTURBANCE
---	TEMPORARY SILT FENCE
---	PROPOSED SPOT ELEVATION
---	EXISTING SPOT ELEVATION
---	RUNOFF DIRECTION
---	INLET WITH INLET PROTECTION

- 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 CANNOT BLOCK OR IMPEDE 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 ROOM" SHALL BE ELECTRICALLY SUPERVISED. PLEASE WORK CLOSELY WITH YOUR FIRE SPRINKLER AND ALARM INSTALLER IN REGARDS TO RUNNING WIRE FOR TAMPER SWITCH.
 - 6) CONTRACTOR SHALL MAINTAIN AN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
 - 7) NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIALS DELIVERED TO THE JOB SITE.
 - 8) PRIVATE UNDERGROUND FIRE LINES REQUIRE A SEPARATE FIRE LINE PERMIT FROM THE WILMINGTON FIRE AND LIFE SAFETY DIVISION 910-343-0866.

NOTE:

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

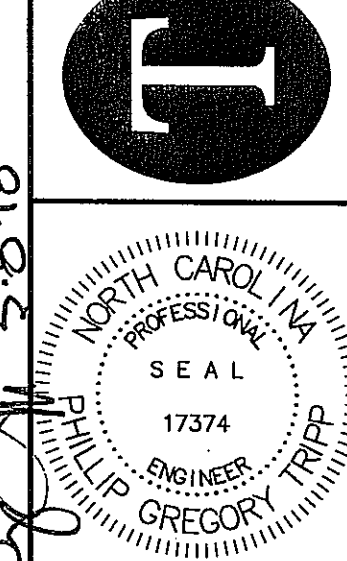
GRADING, DRAINAGE, EROSION CONTROL, AND STORMWATER MANAGEMENT PLAN

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 910-763-5681
© TRIPP ENGINEERING, P.C. 2018



DATE 03-08-18
DESIGN PGT
DRAWN MLV

C3

SHEET 3 OF 5
17059

CITY OF WILMINGTON
NORTH CAROLINA

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

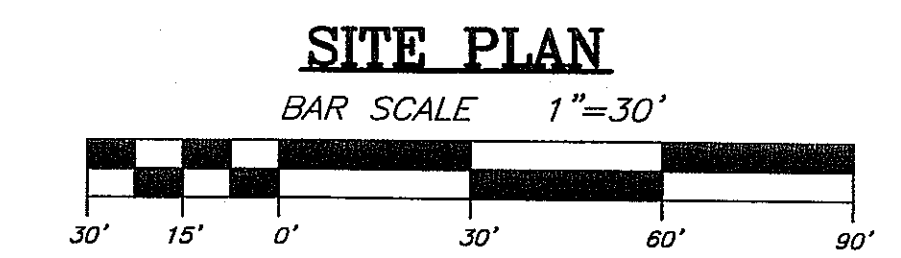
Date: 8/15/18 Permit # 2018035

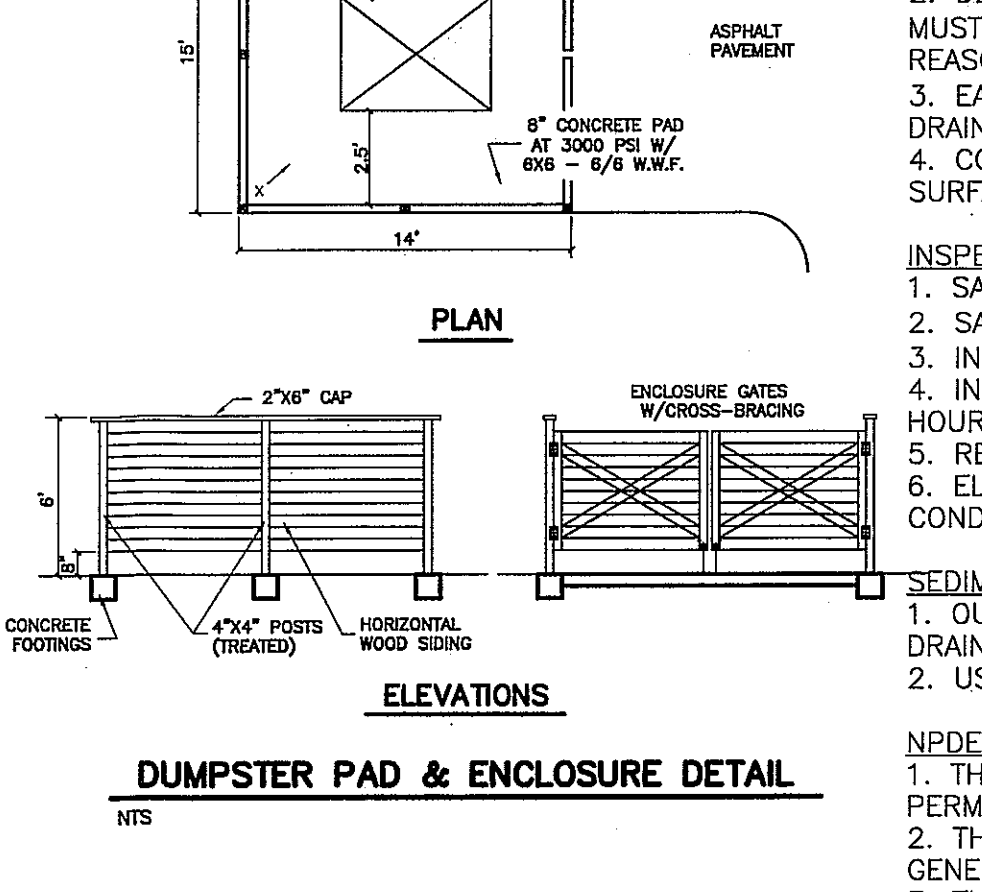
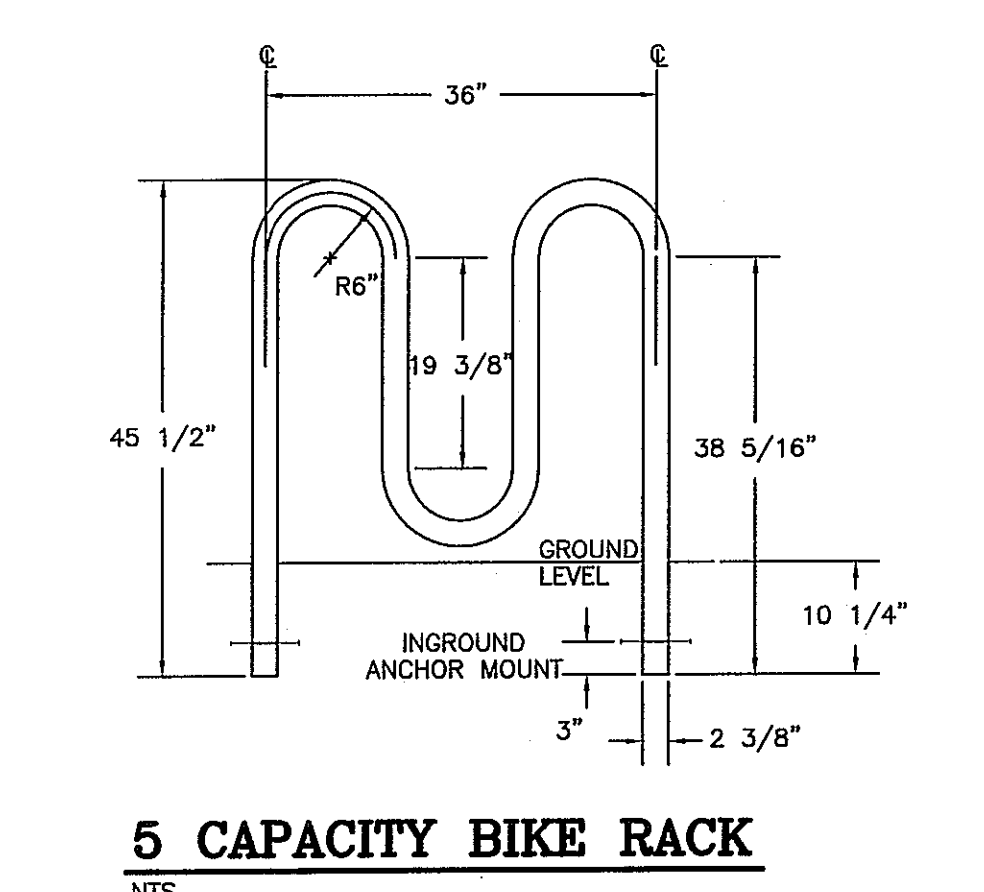
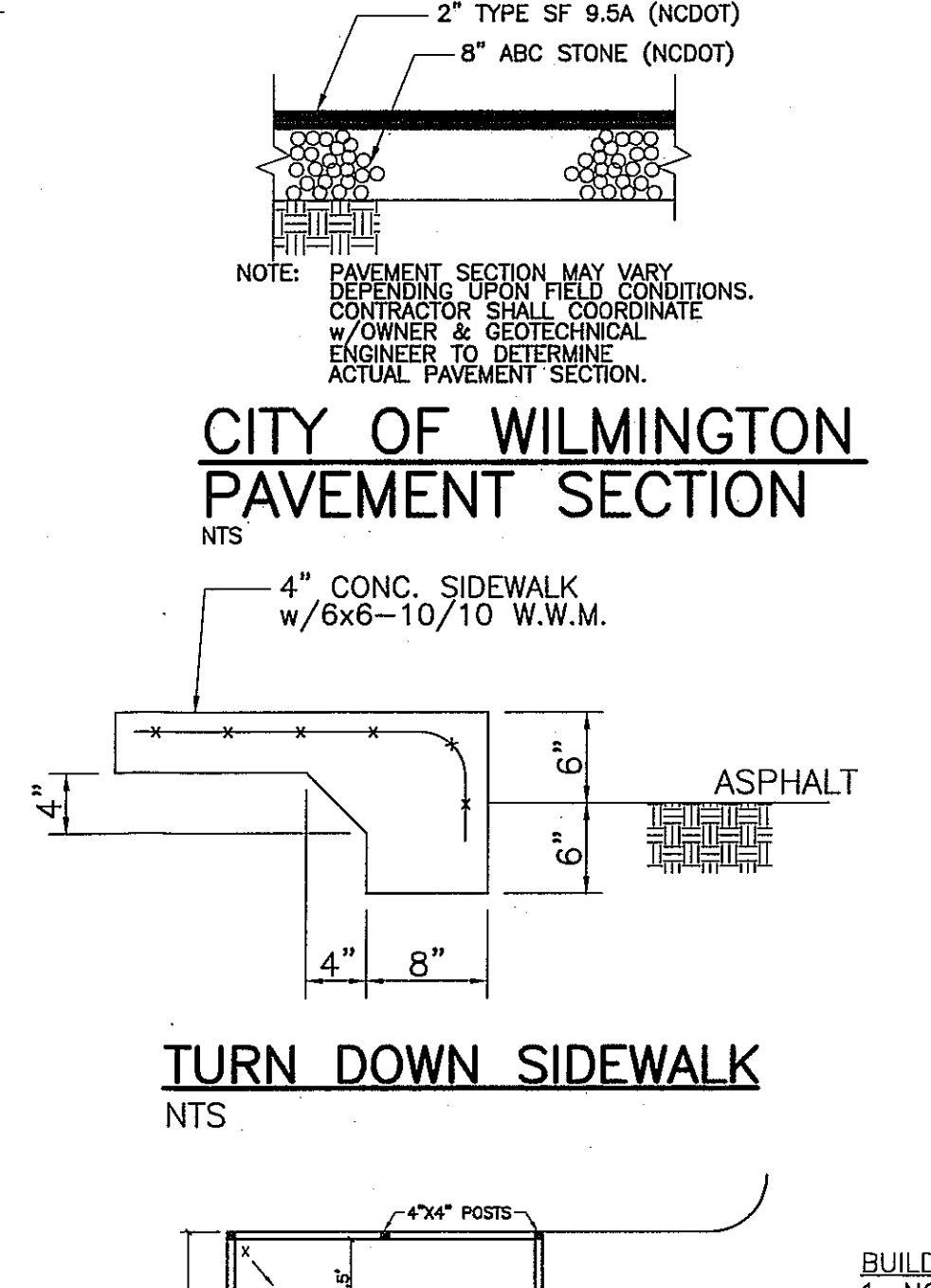
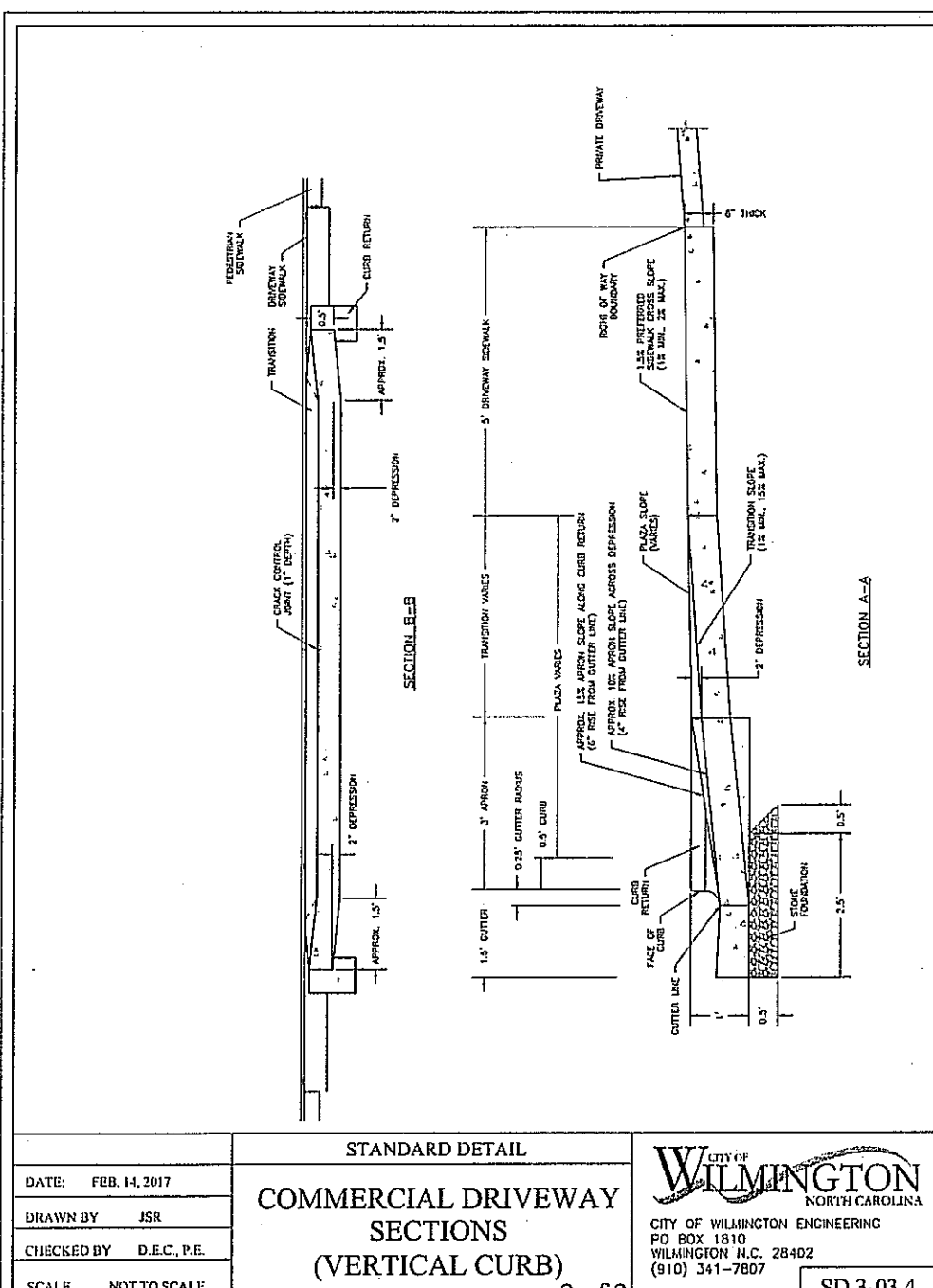
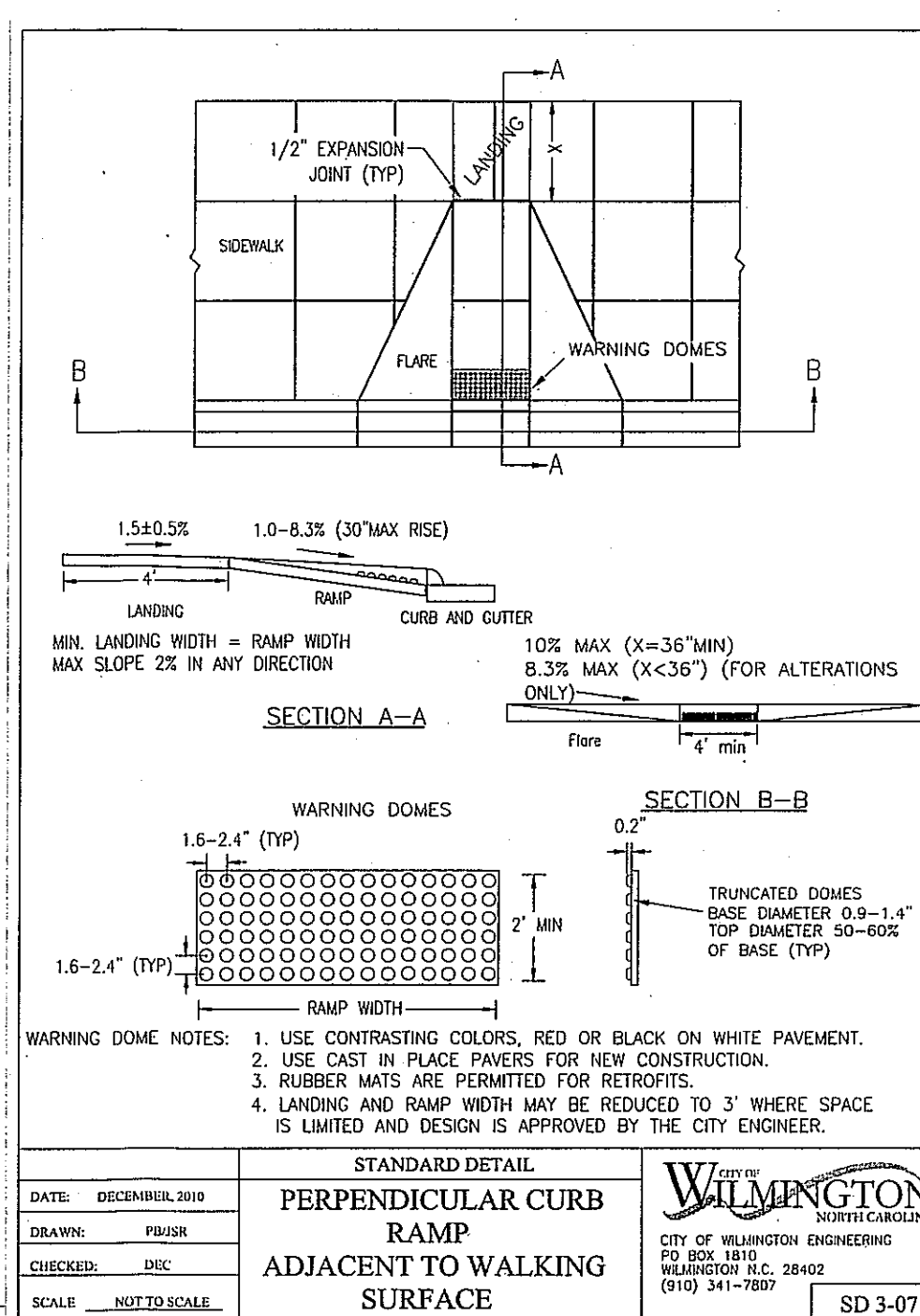
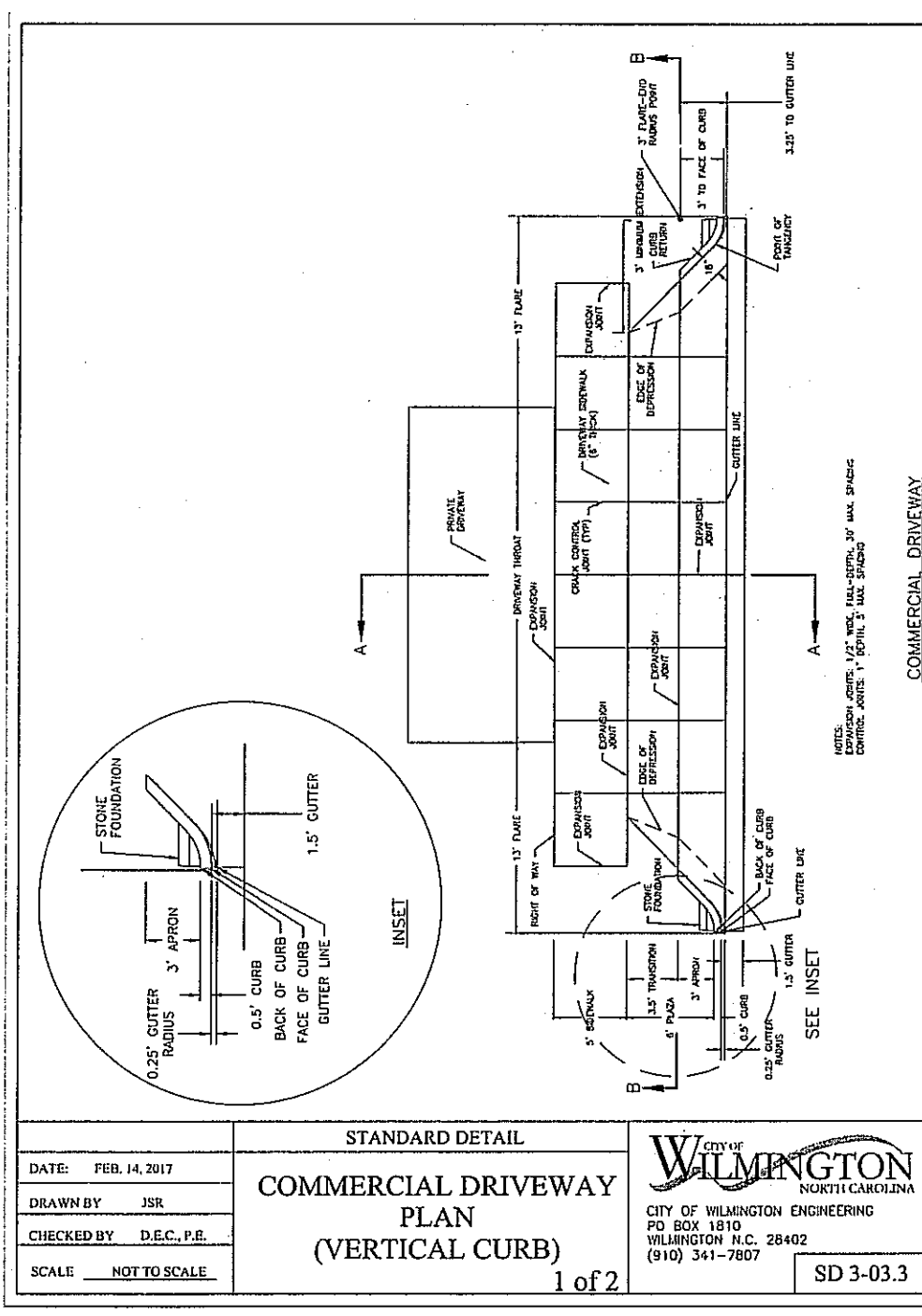
Signed: [Signature]

Approved Construction Plan

Name Date
Planning: J. Walker 8-14-18
Traffic: W. Edwards 8-14-18
Fire: J. Nix 8-16-18

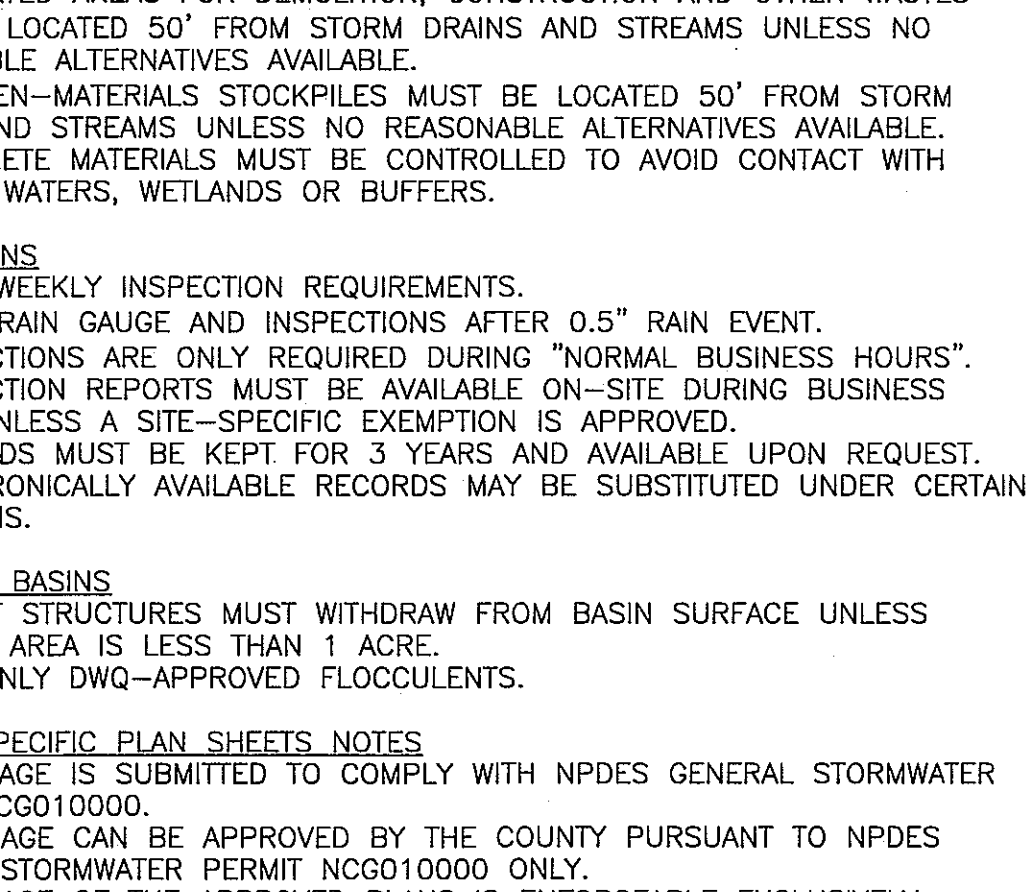
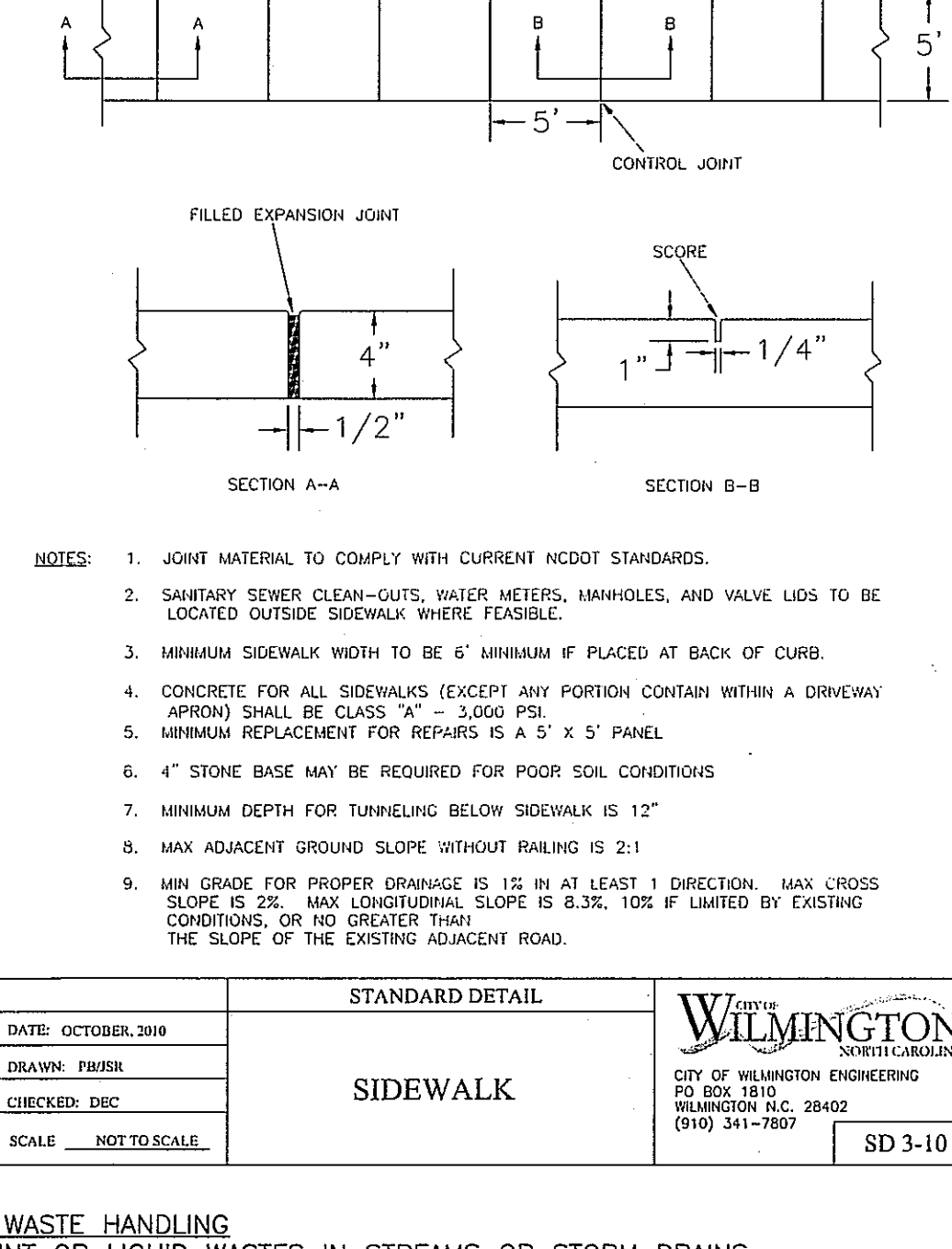
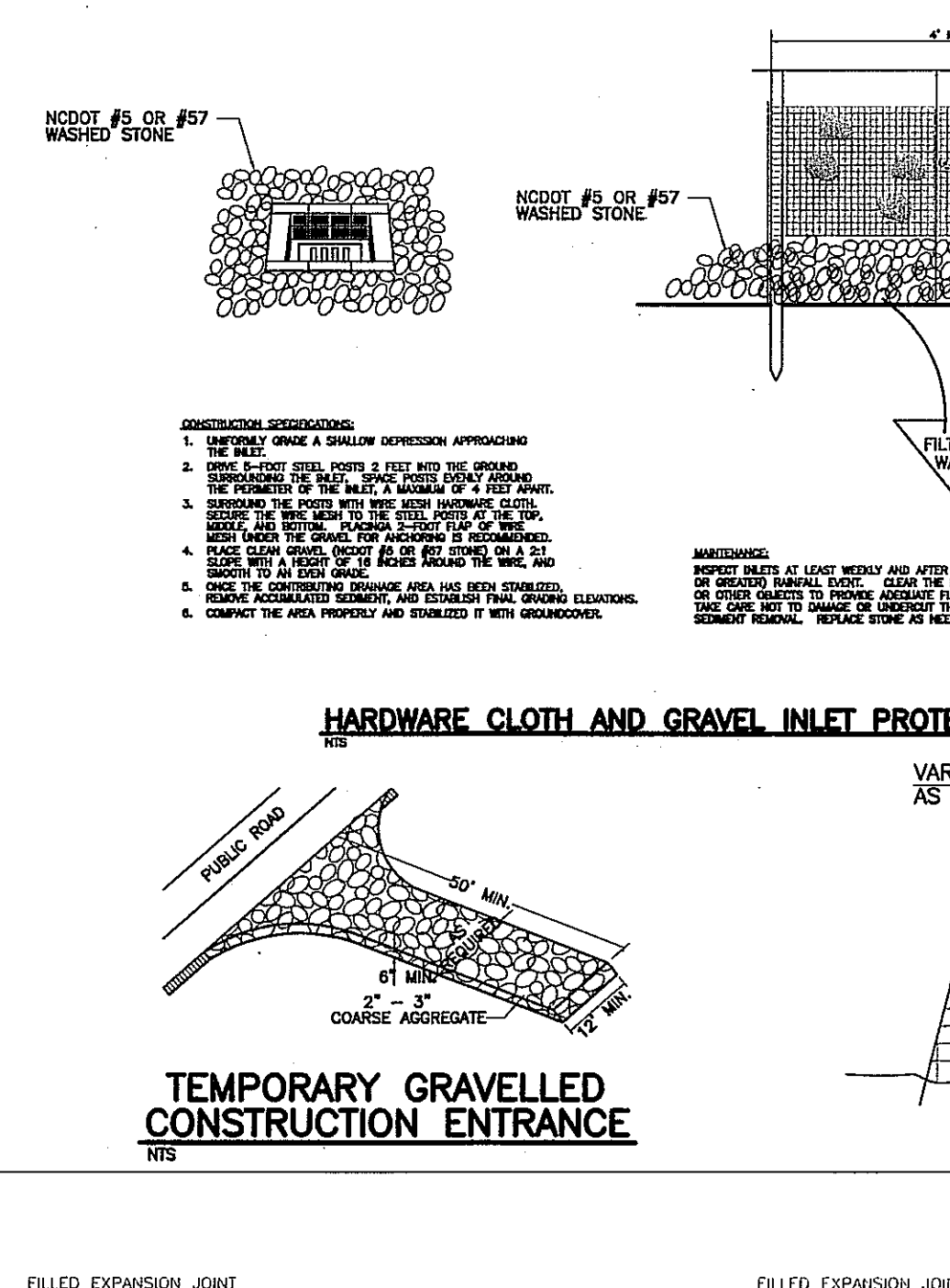
For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.



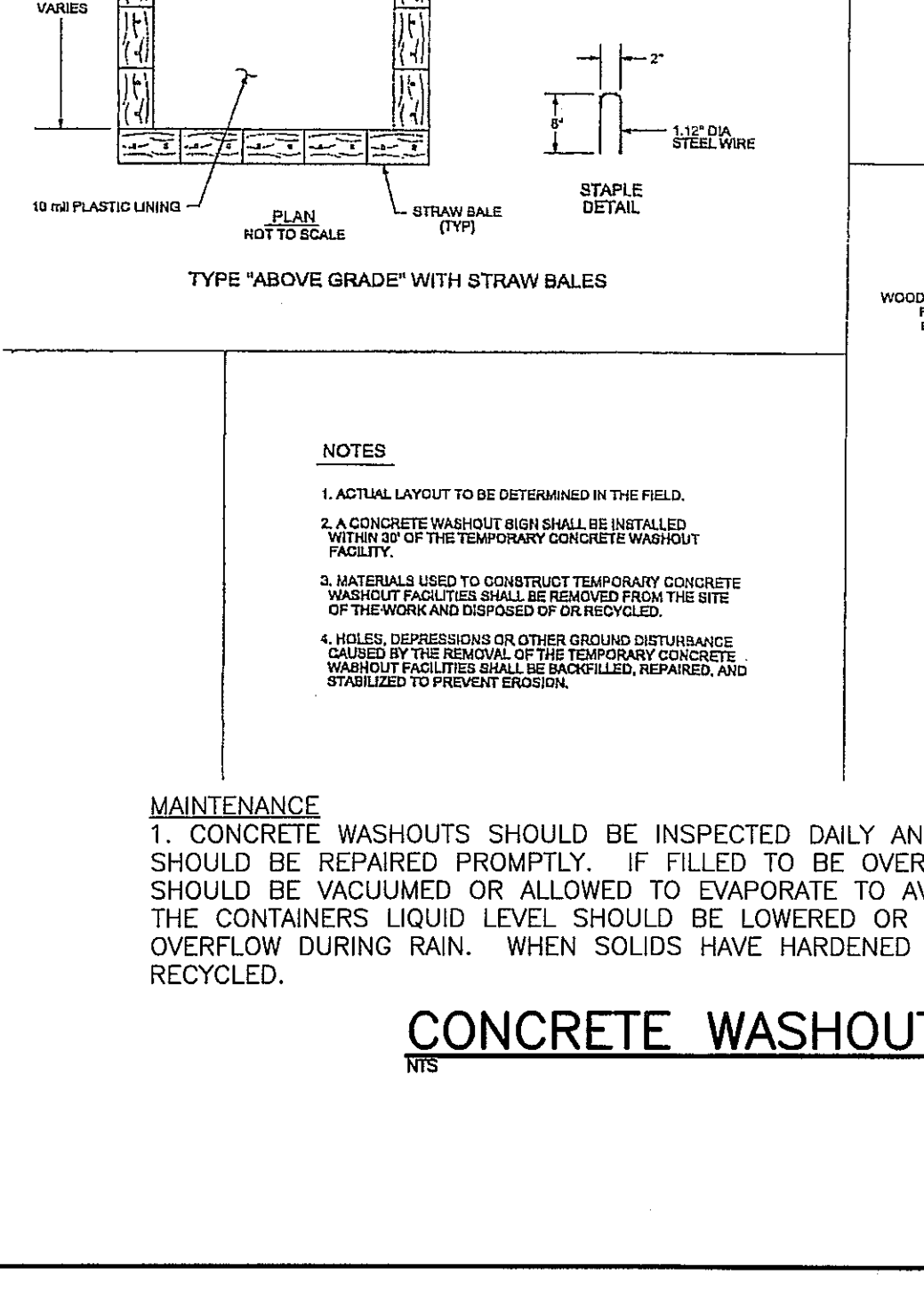
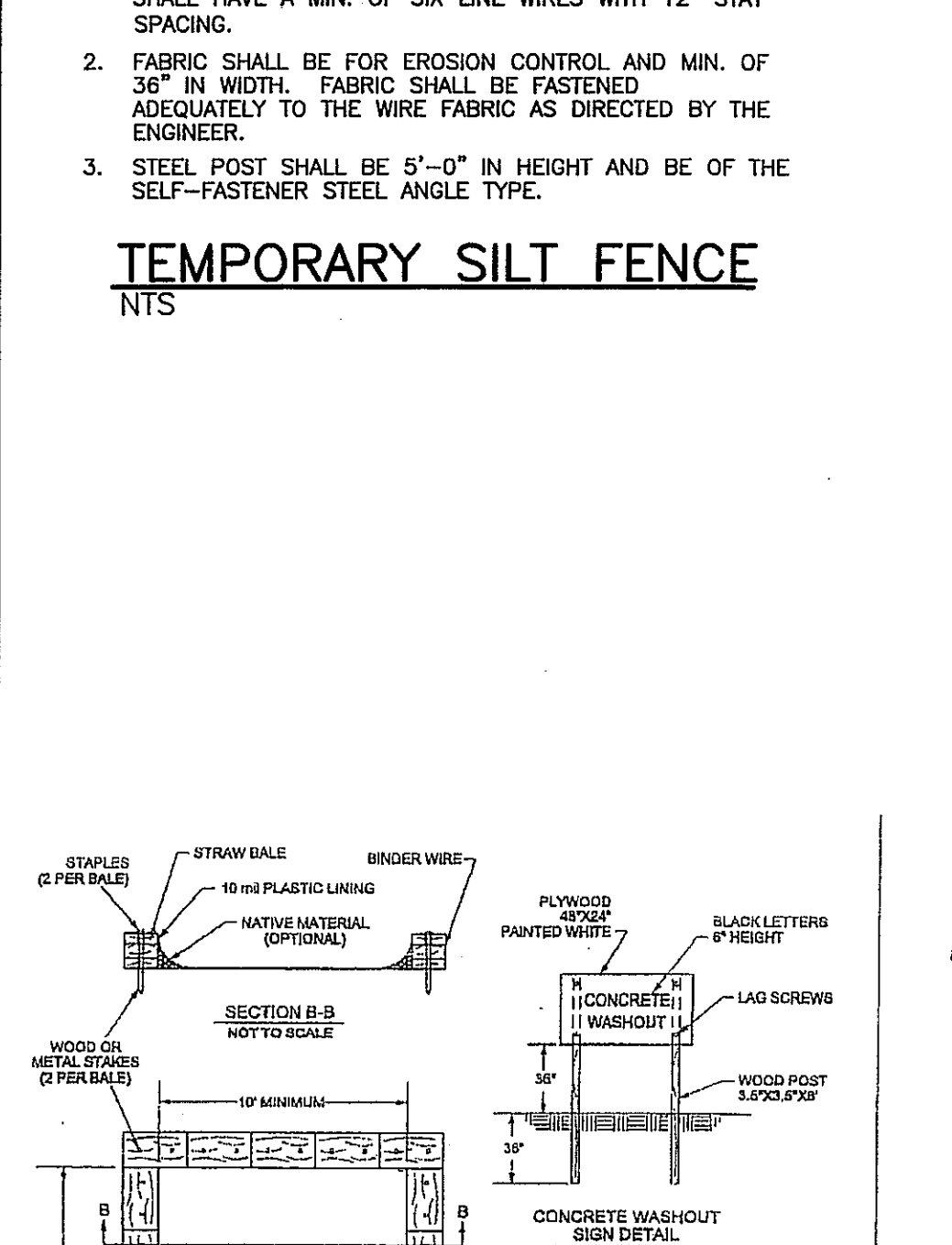
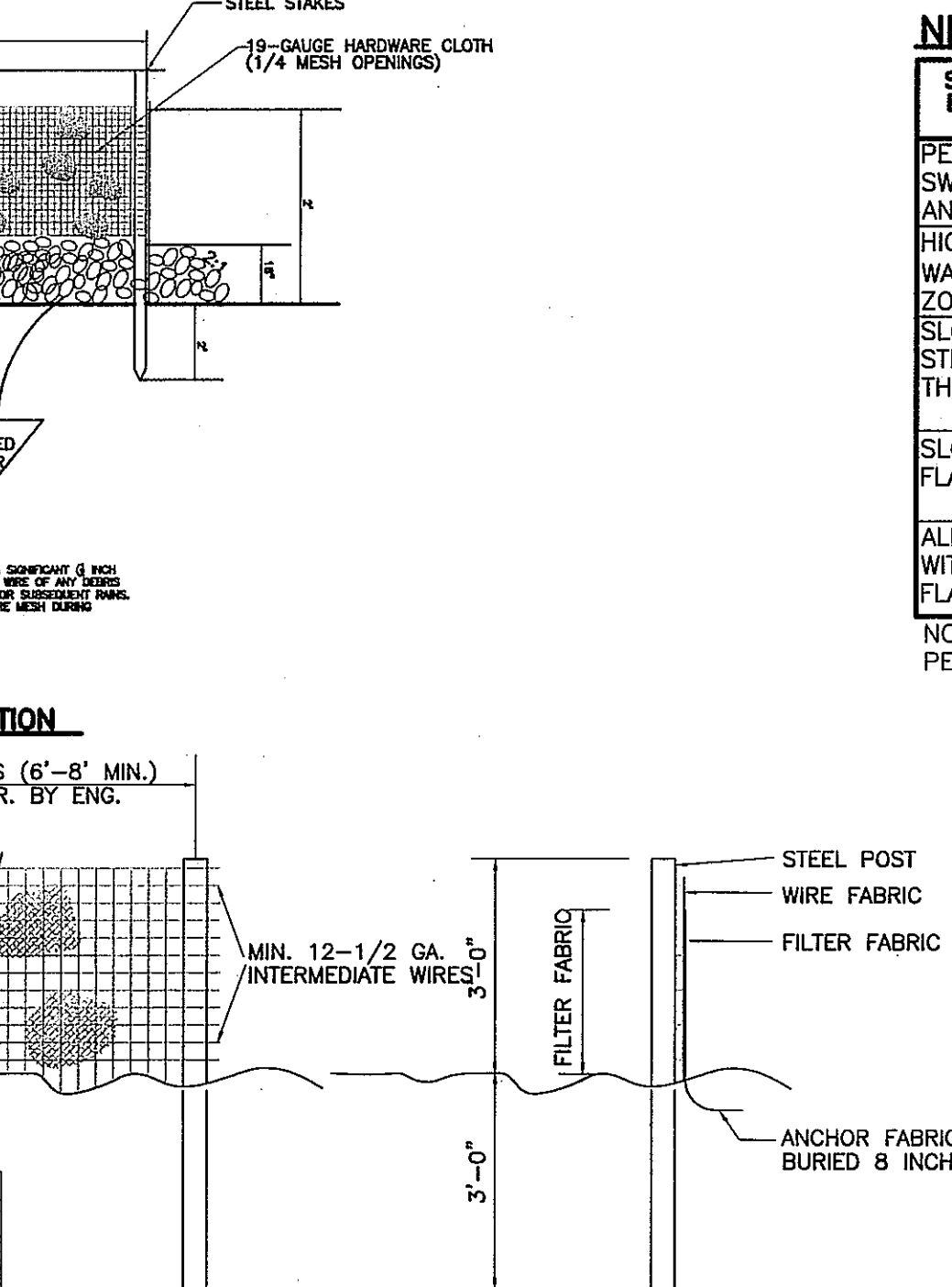


WILMINGTON NORTH CAROLINA
 Public Service • Engineering Division
 APPROVED STORMWATER MANAGEMENT PLAN
 Date: 8/15/18 Permit # 2018035
 Signed: [Signature]

Approved Construction Plan
 Name: [Name] Date: 8-14-18
 Planning: [Signature] 8-14-18
 Traffic: [Signature] 8-14-18
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NPDES GROUND STABILIZATION CRITERIA

SITE AREA DESCRIPTION	STABILIZATION TIMEFRAME	STABILIZATION TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES 3:1 OR FLATTER	14 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH & ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES GREATER THAN 3:1	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERIMETERS AND HQW ZONES)

NOTE: PROVIDE GROUND STABILIZATION IN ALL AREAS PER THE NPDES CRITERIA.

LATE WINTER & EARLY SPRING TEMPORARY GRASSING DETAIL

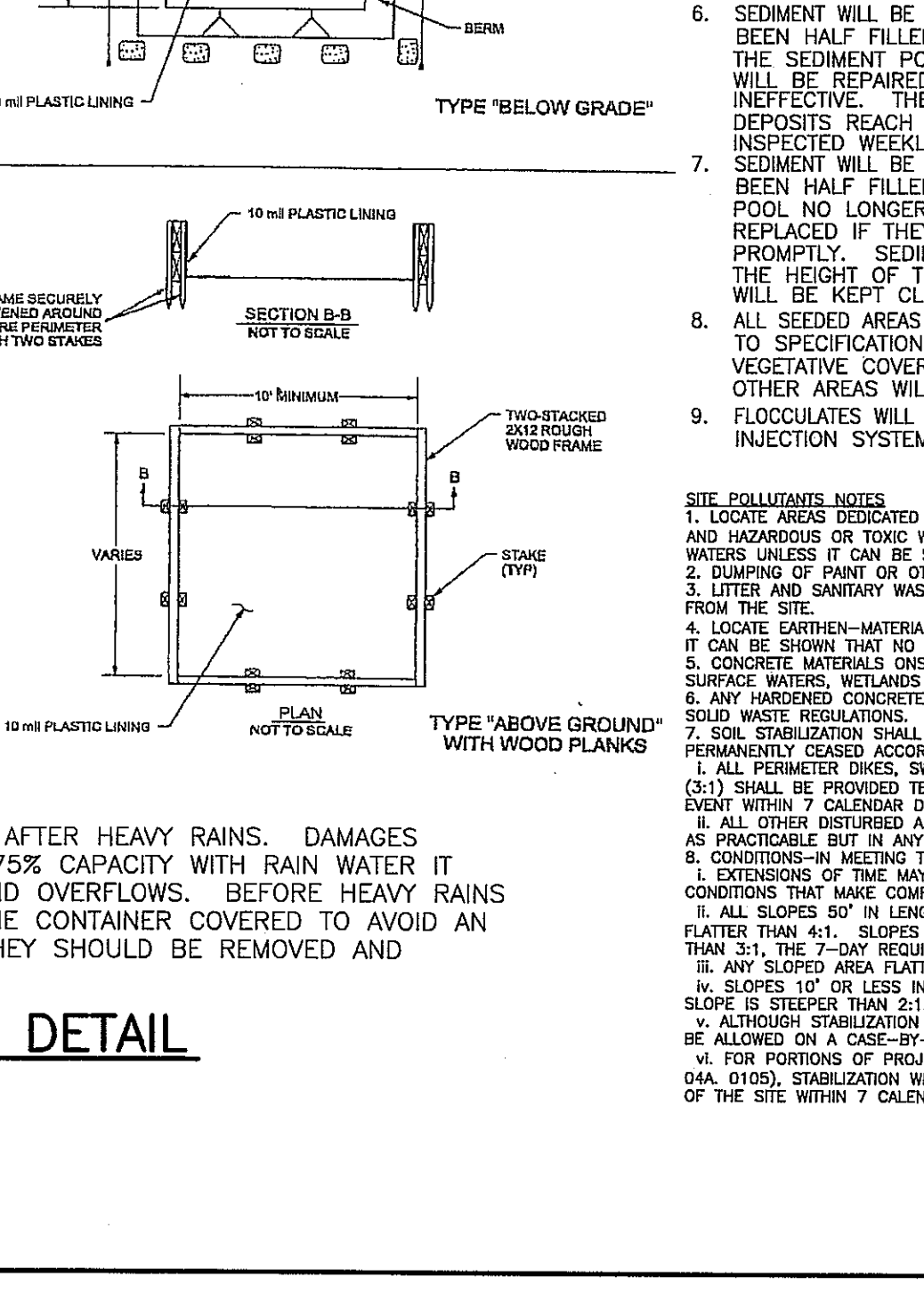
SEEDS	RATE (lb/acre)
Annual ryegrass (Koste In Piedmont and Coastal Plain, Korean In Mountains)	50
Ornamental grasses (when duration of temporary cover is not to extend beyond June)	50

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

SOIL AMENDMENTS
 Follow recommendations of soil test or apply 2,000 lb/acre ground application limestone and 750 lb/acre 10-10-10 fertilizer.

MULCH
 APPLY 4,000 LB/ACER STRAW ANCHOR STRAW BY TRACKING WITH ASPHALT, METAL, OR A HIGH ANCHORING TOOL. A MULCH ANCHORING TOOL.

MAINTENANCE
 Retire if growth is not fully adequate. Re-seed, re-fertilize and mulch immediately following erosion or other damage.



REVISIONS

No./Date	Description	By
02.25.18	ADD TO DETAIL CITY SW COMMENTS	MLV

CONSTRUCTION SEQUENCE

- 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 DURING AND AFTER CONSTRUCTION.
- INSTALL PRIMARY EROSION CONTROL MEASURES BEFORE BEGINNING CONSTRUCTION INCLUDING BUT NOT LIMITED TO GRAVELLED 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 FILL. SEDIMENT TRAPS ARE CLEANED OUT AS STATED 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 FUNCTIONING. RESTORE POND TO DESIGN LEVEL 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 4" LAYER OF TOPSOIL SHALL BE APPLIED TO ALL NEW AREAS TO BE GRASSED.
- MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PROJECT IS COMPLETE.
- MORE STRINGENT MEASURES MAY BE REQUIRED TO HALT EROSION IF THOSE ON THIS PLAN PROVE TO BE LESS 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 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 OBSCURABLE 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 DRAINAGE AND ROCK PIPE INLET PROTECTION WHEN THE DESIGNED 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 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 REPLACED AS NECESSARY. STAKE SPACING WILL BE 8 FEET MAX. WITH 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 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 DESIGNED 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 AS NECESSARY. IF THEY COLLAPSE, THEY WILL BE REPAIRED OR REPLACED IF THEY COLLAPSE OR BECOME INEFFECTIVE. THEY WILL BE REPLACED PROMPTLY. SEDIMENT WILL BE REMOVED 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 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 DISCHARGES DAILY.

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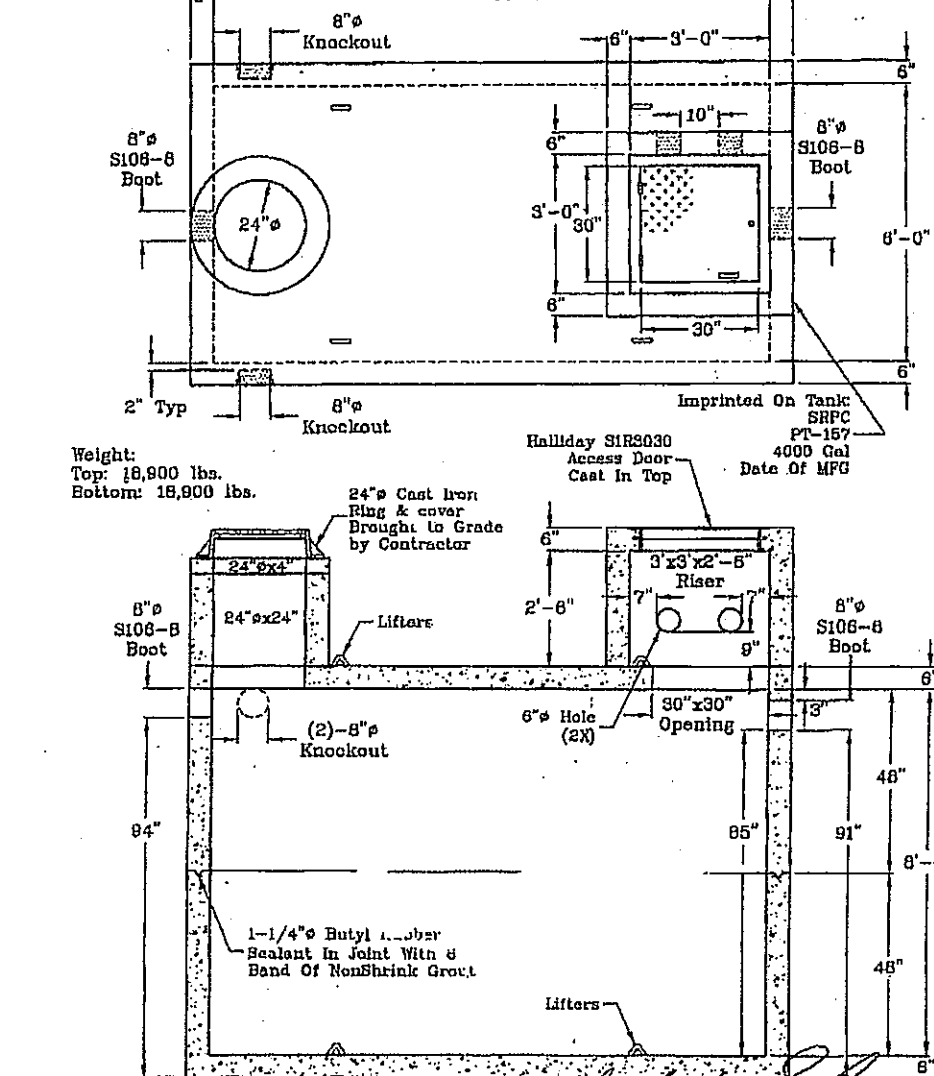
TRIPP ENGINEERING, P.C.
 419 Chestnut Street
 Wilmington, North Carolina 28401
 Phone 910-763-5100
 Fax 910-768-5631
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PHILIP GREGORY TRIPP
 PROFESSIONAL ENGINEER
 STATE OF NORTH CAROLINA
 17374

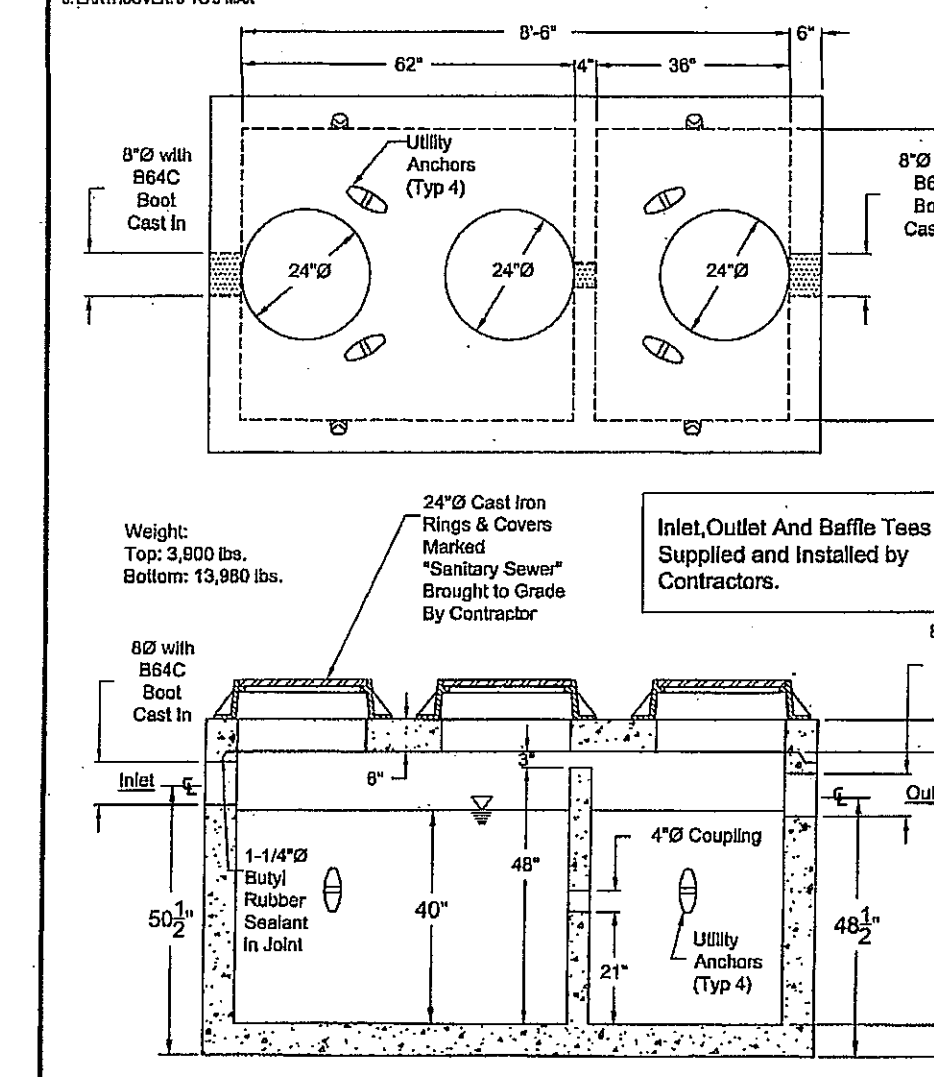
DATE: 03-08-18
 DESIGN: PGT
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C4
 SHEET 4 OF 5
 17059

NOTES:
1. REINFORCEMENT IS-99 BRIDGE LOADING
2. CONCRETE 4000 PSI AND 5000



Weight:
Top: 18,800 lbs.
Bottom: 18,800 lbs.

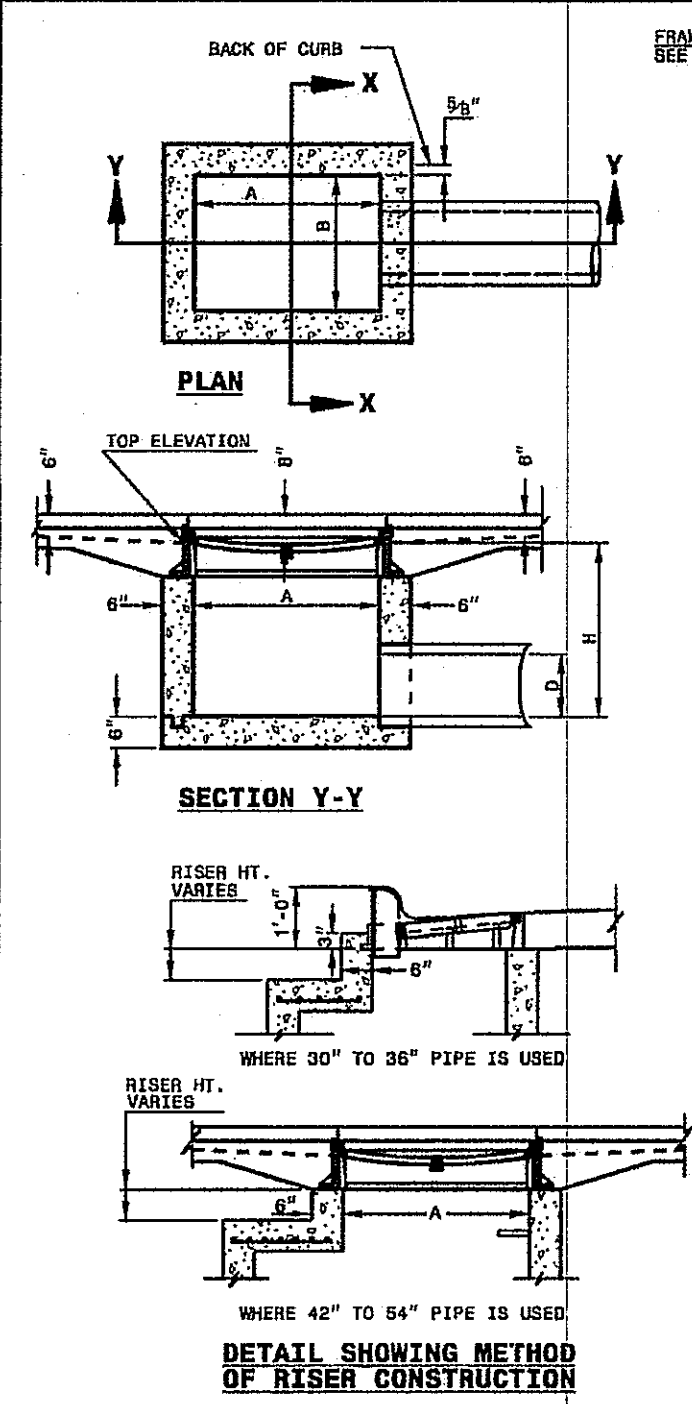


1000 Gallon Grease Interceptor
Traffic Rated
G-5

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

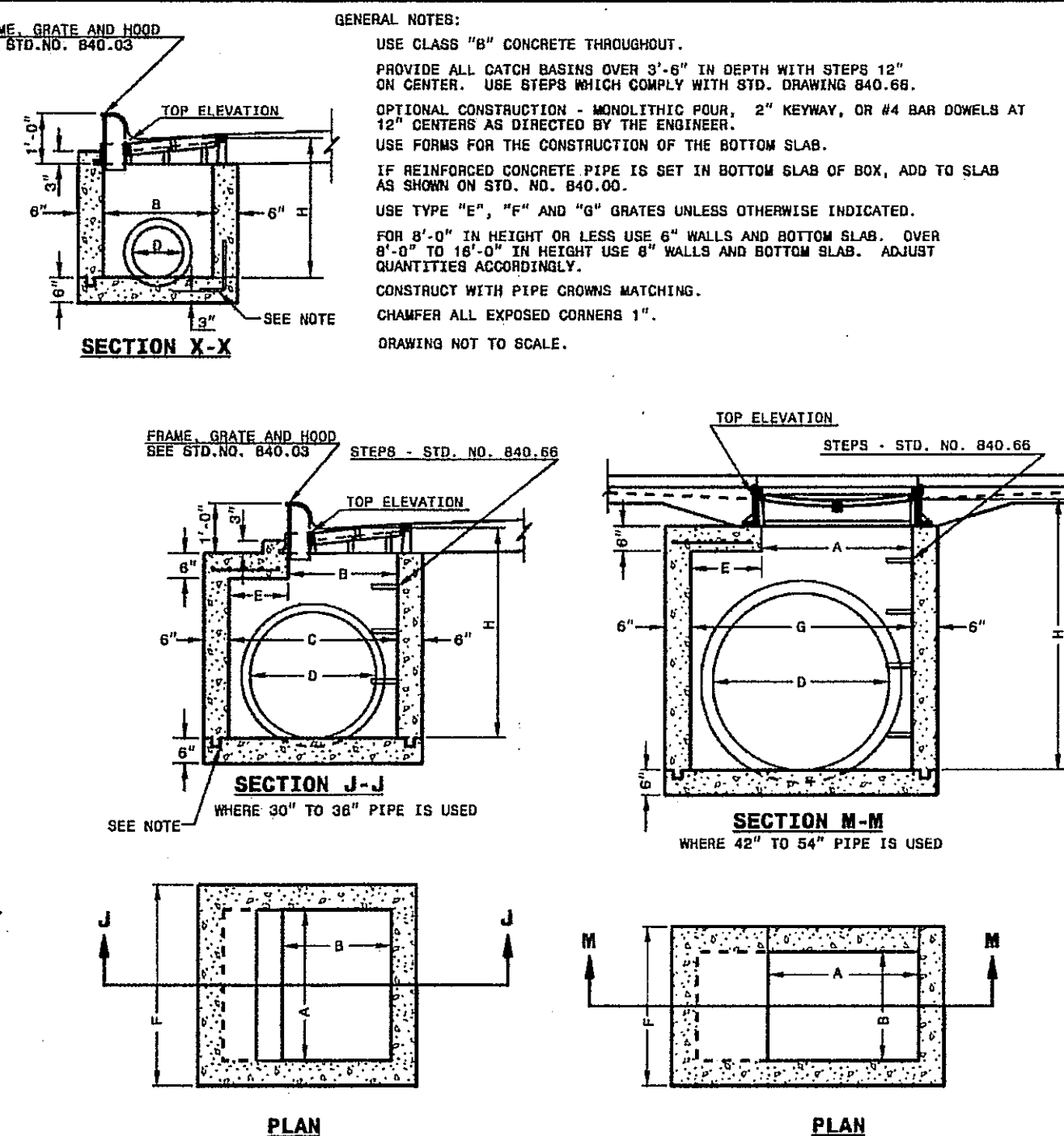


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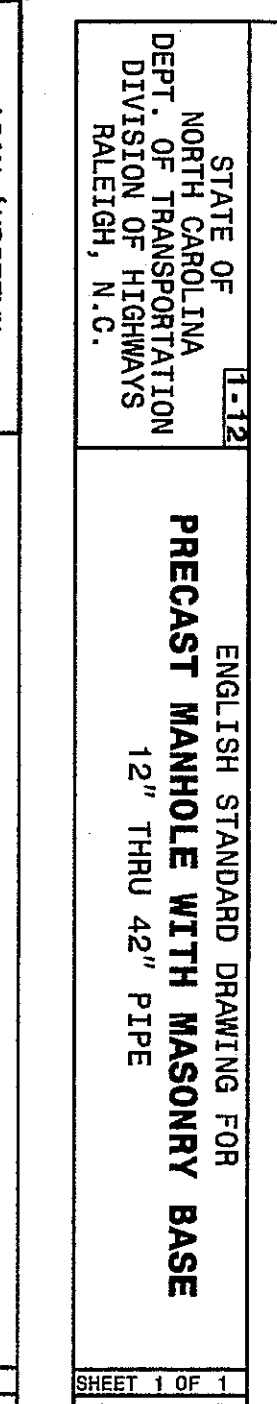
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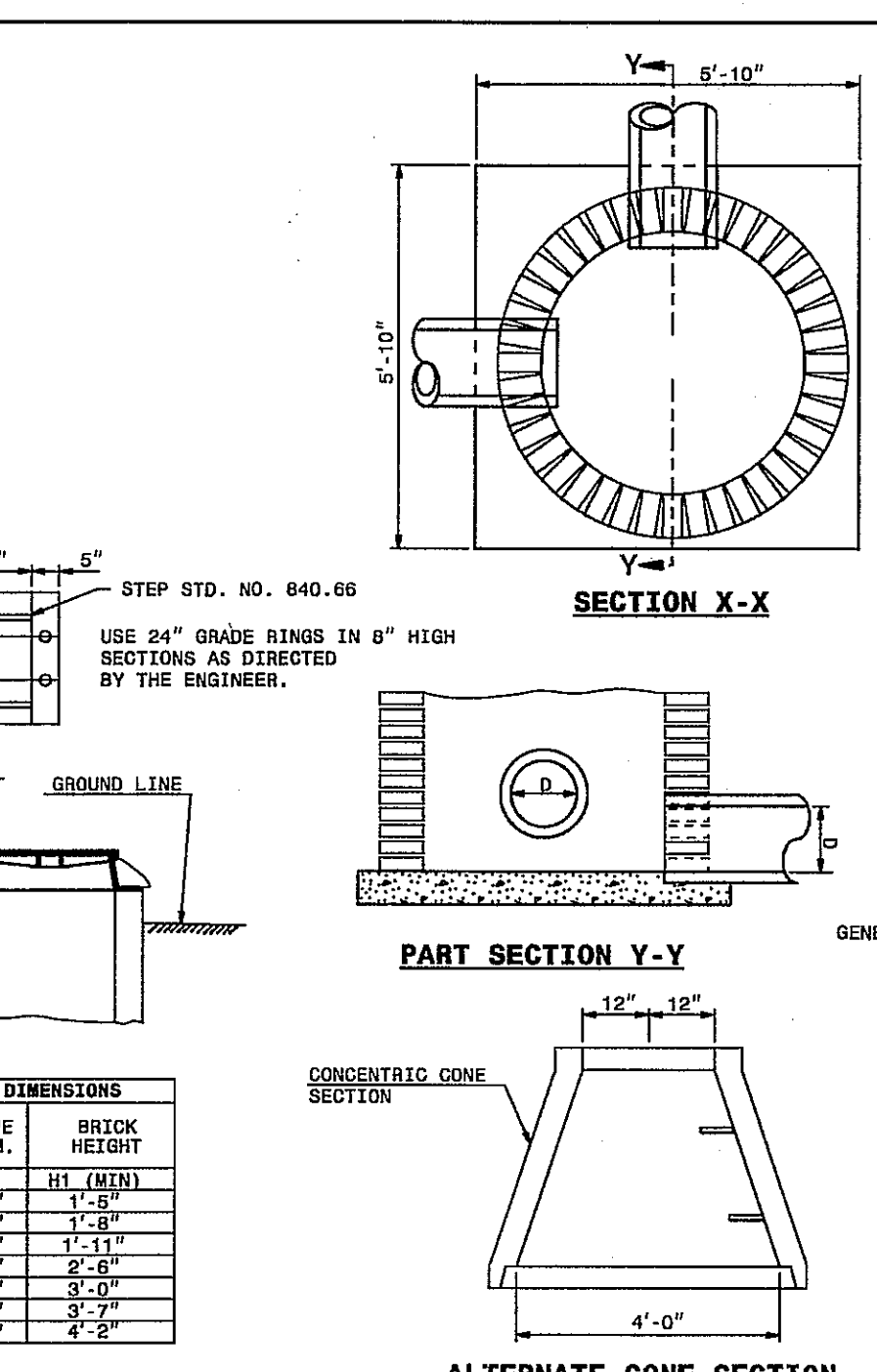
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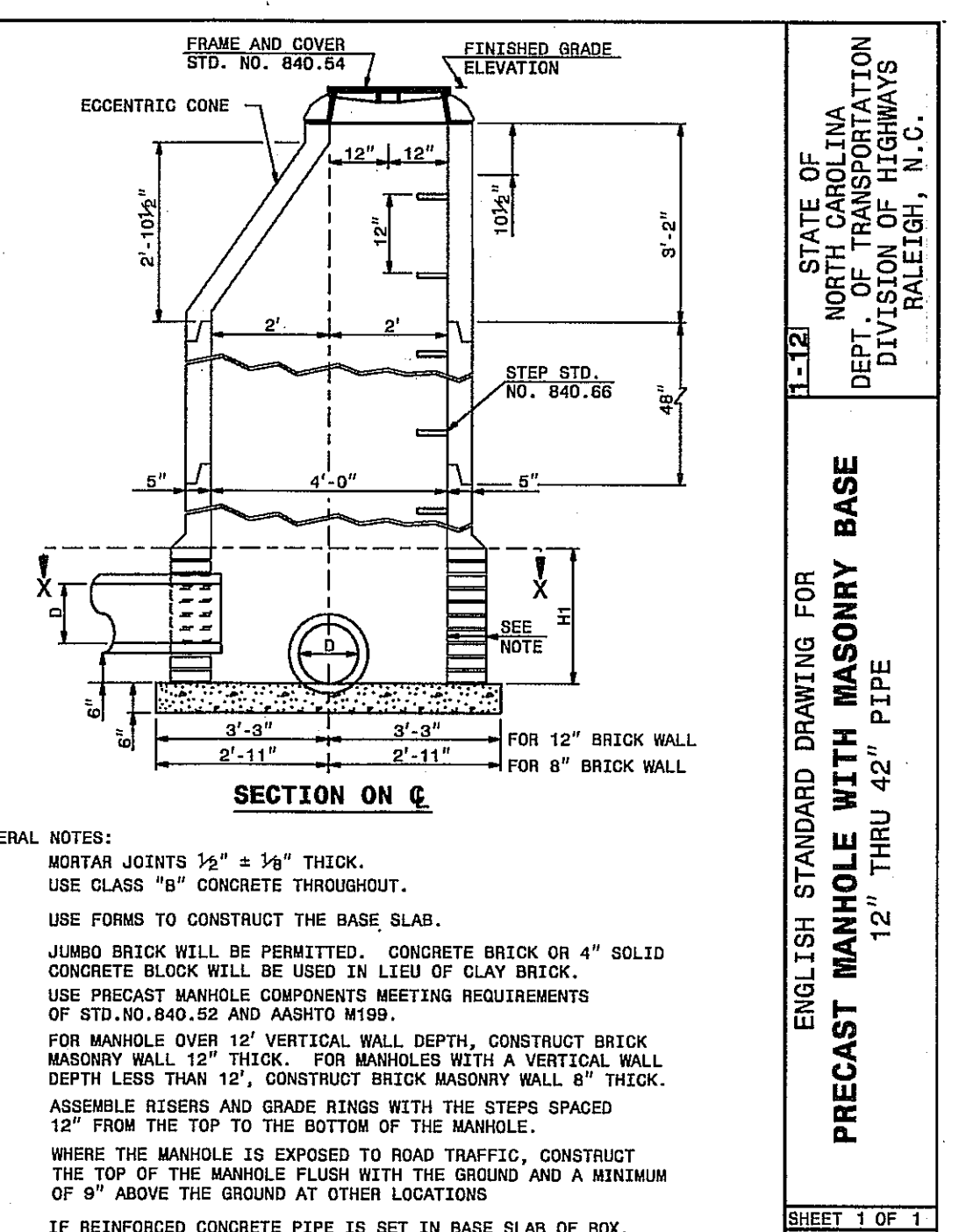


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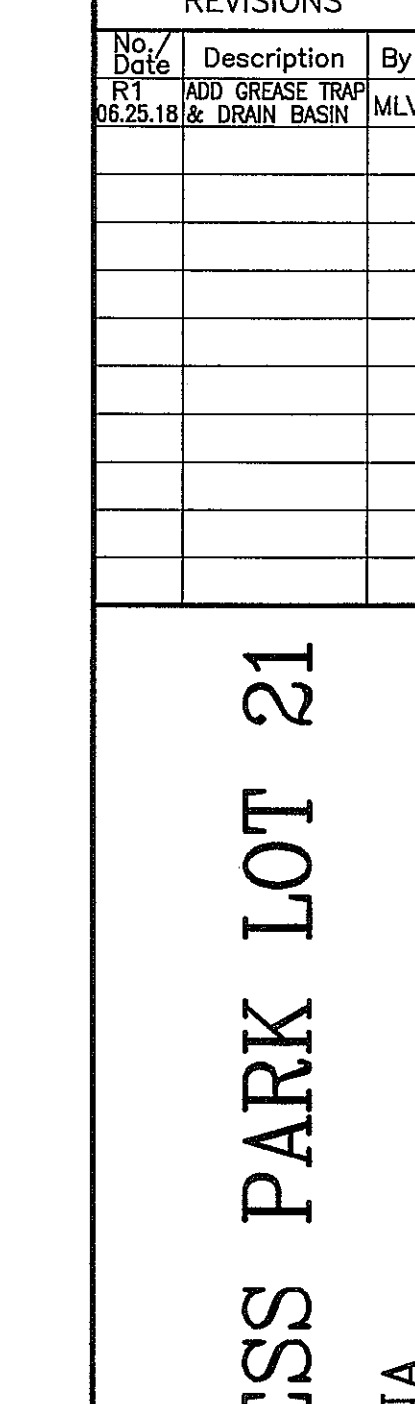
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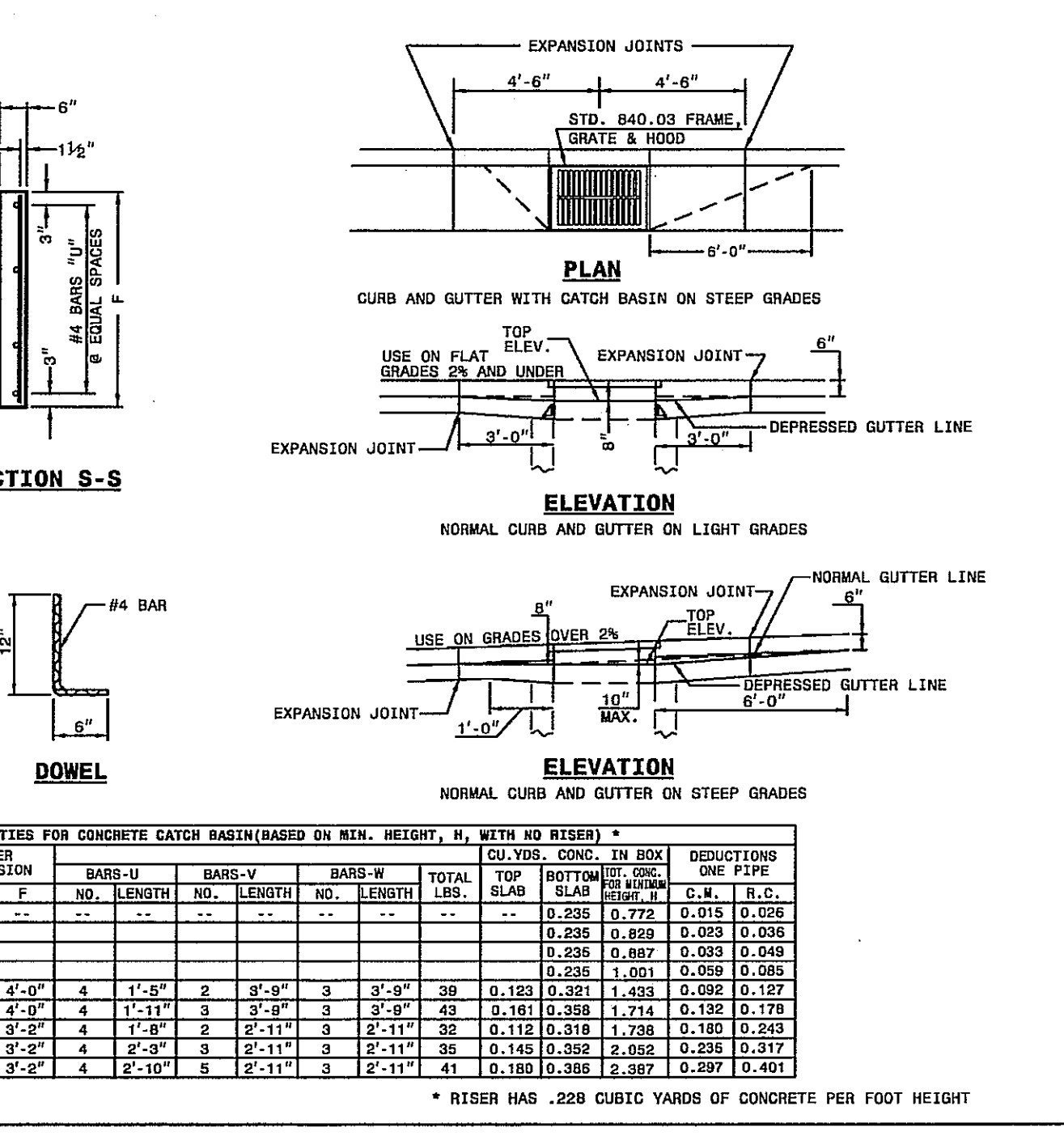
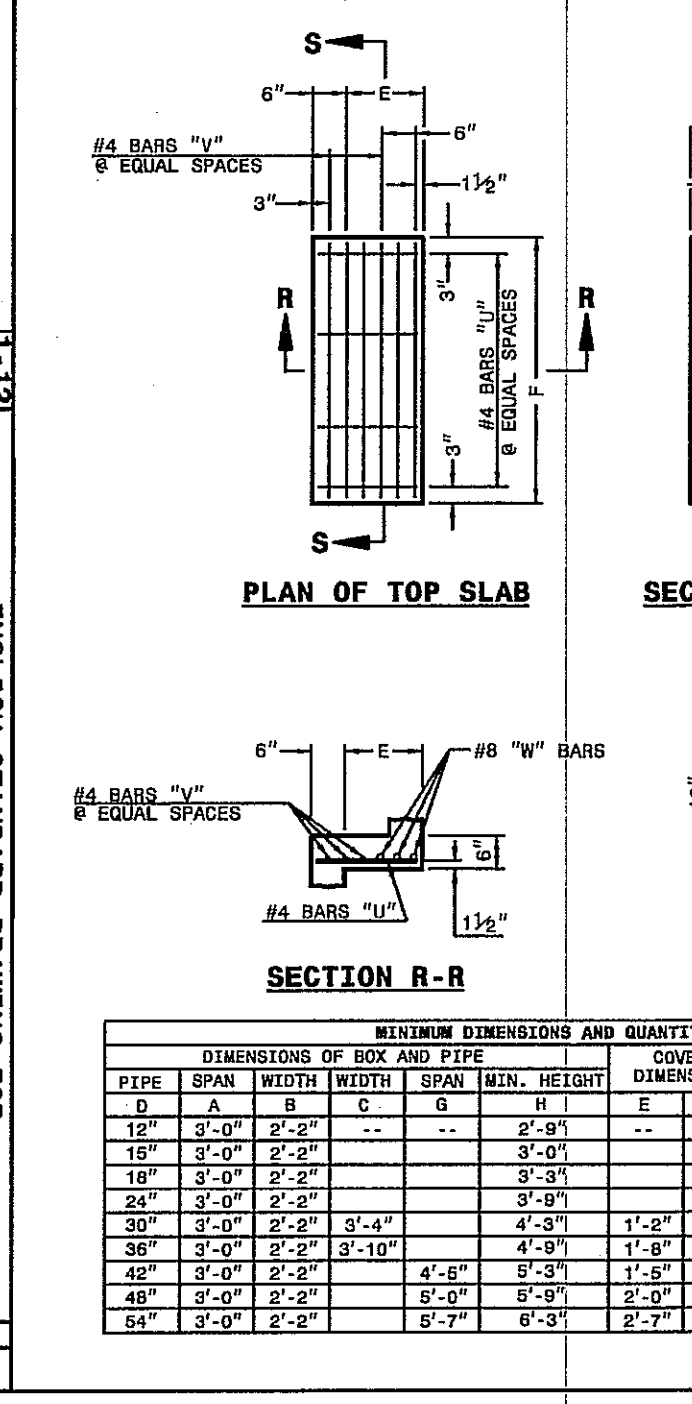
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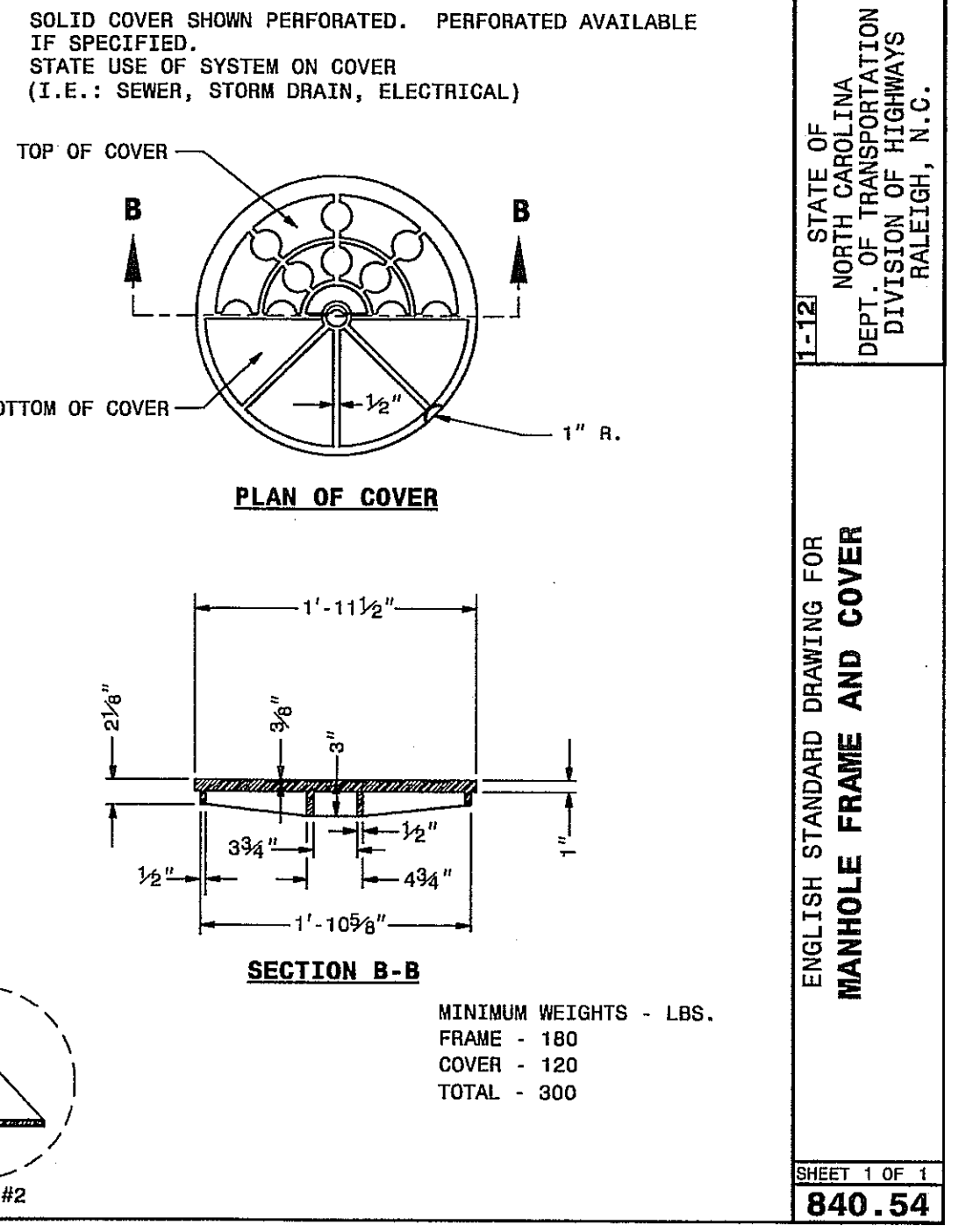
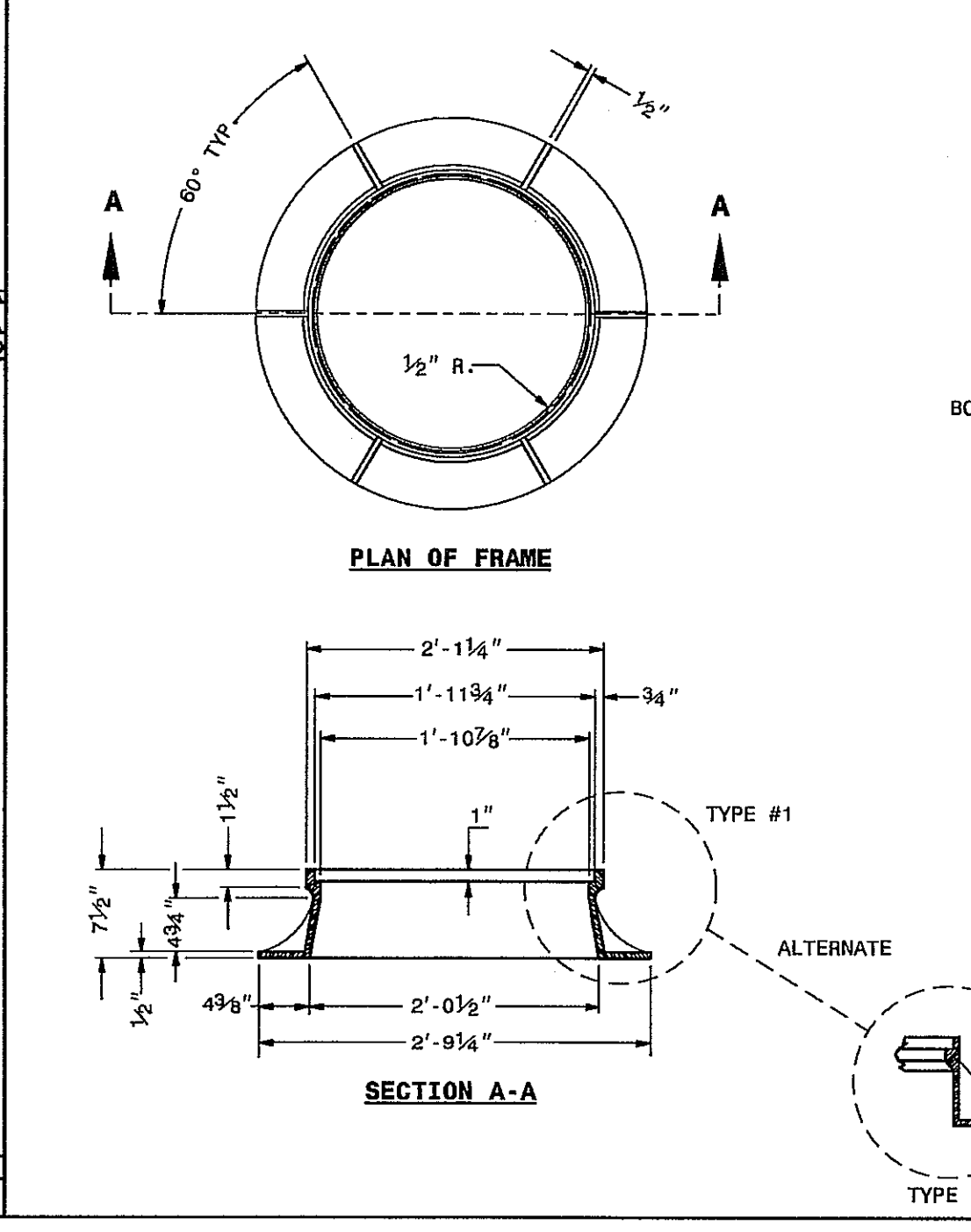
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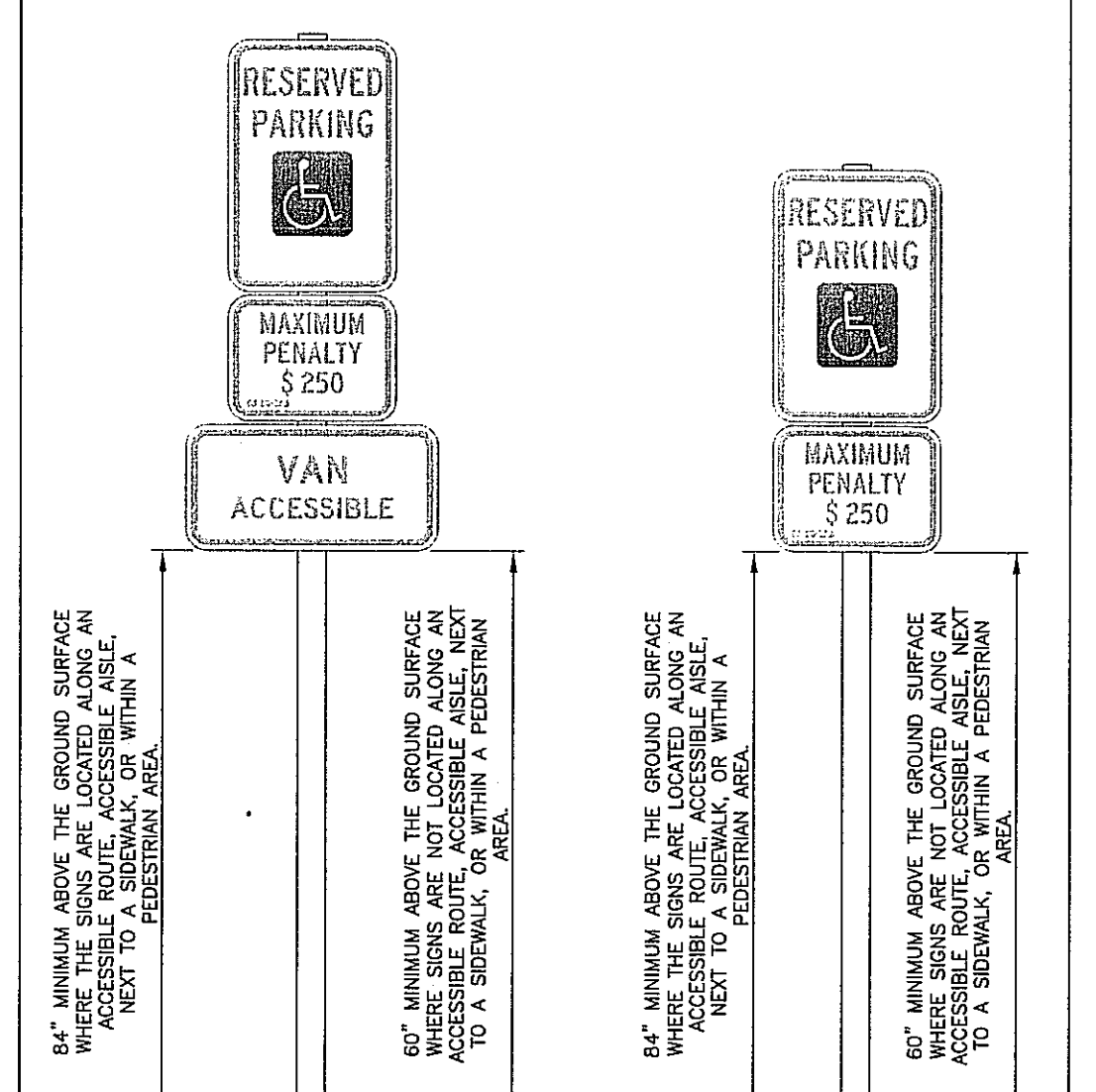
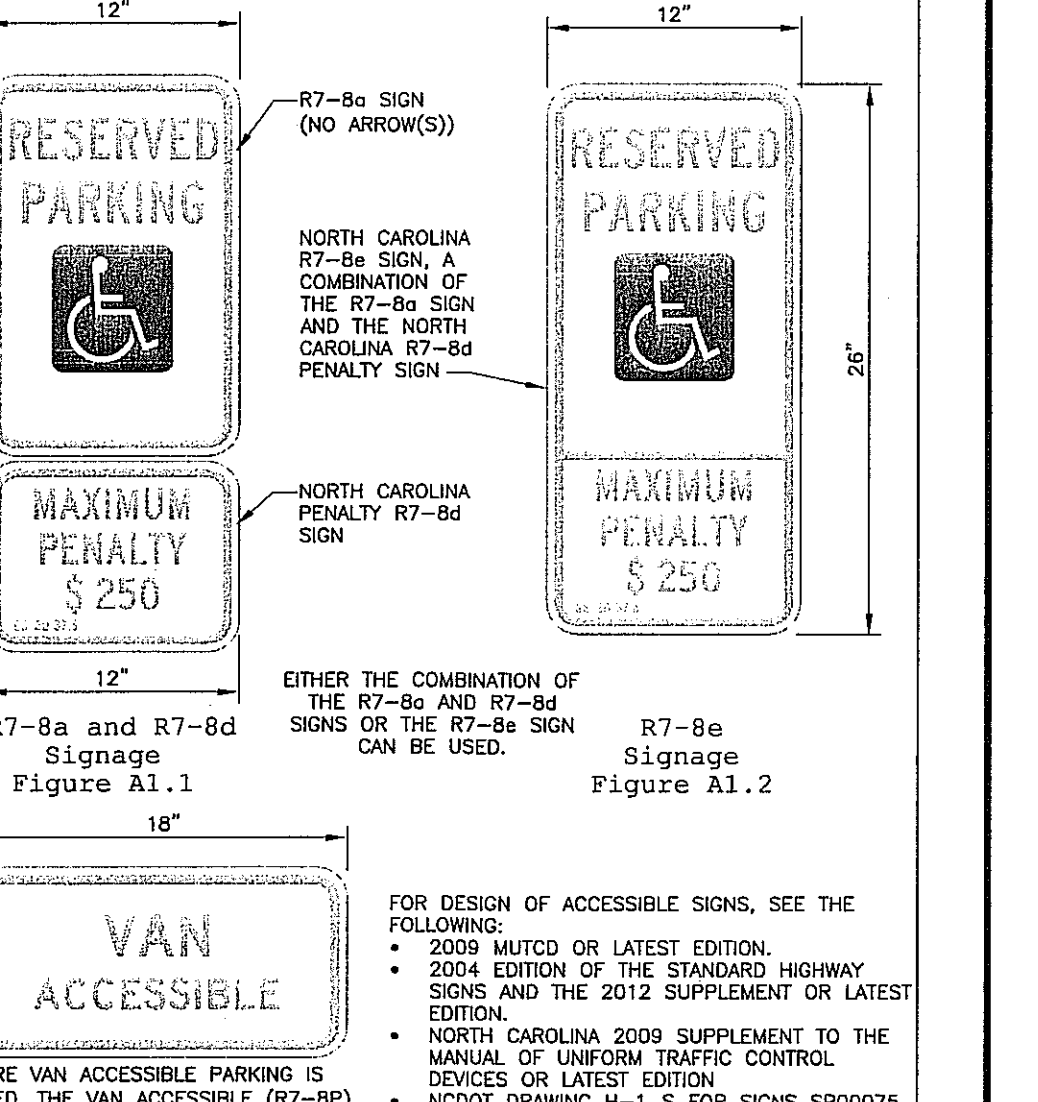
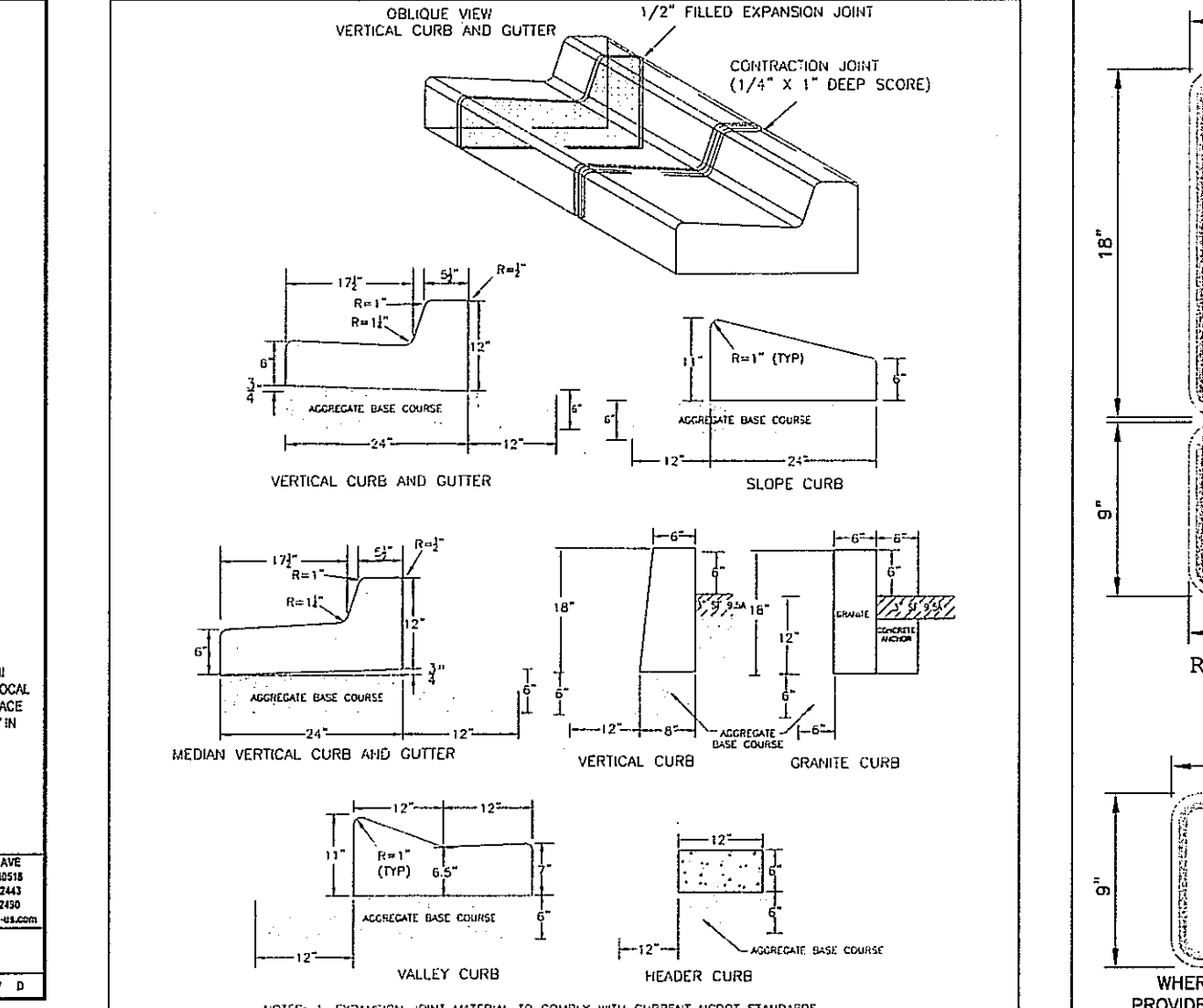
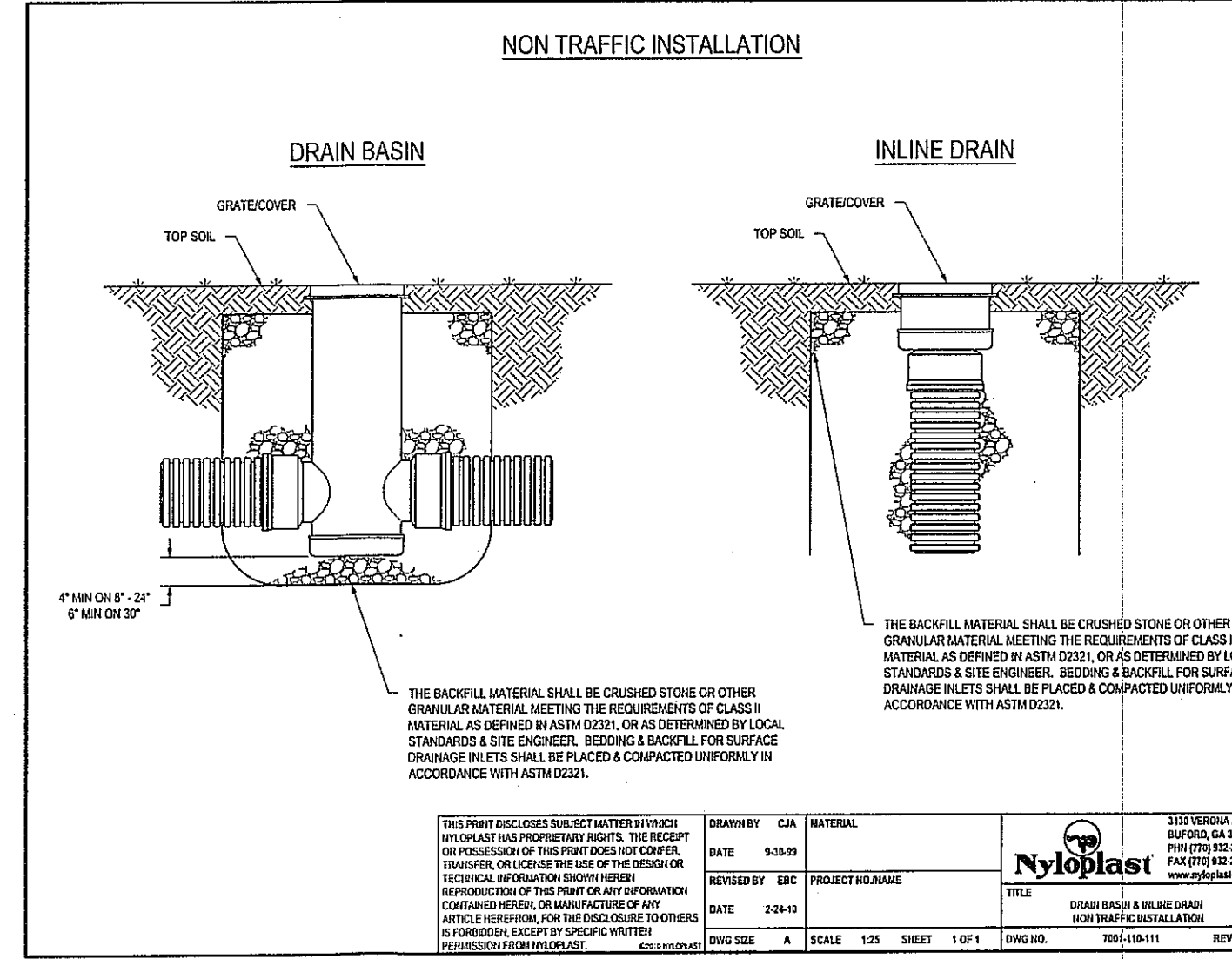
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City of WILMINGTON
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: 8/15/18
Signed: [Signature]

Approved Construction Plan
Name: [Name]
Date: 8-14-18
Planning: [Signature]
Traffic: [Signature]
Fire: [Signature]

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WILMINGTON
City of Wilmington
Engineering Division
SD 3-11

DATE: NOVEMBER 9, 2016
DRAWN BY: DALE THOMPSON
CHECKED BY: RANDALL GLAZIER
SCALE: NOT TO SCALE

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DRAWN BY: DALE THOMPSON
CHECKED BY: RANDALL GLAZIER
SCALE: NOT TO SCALE

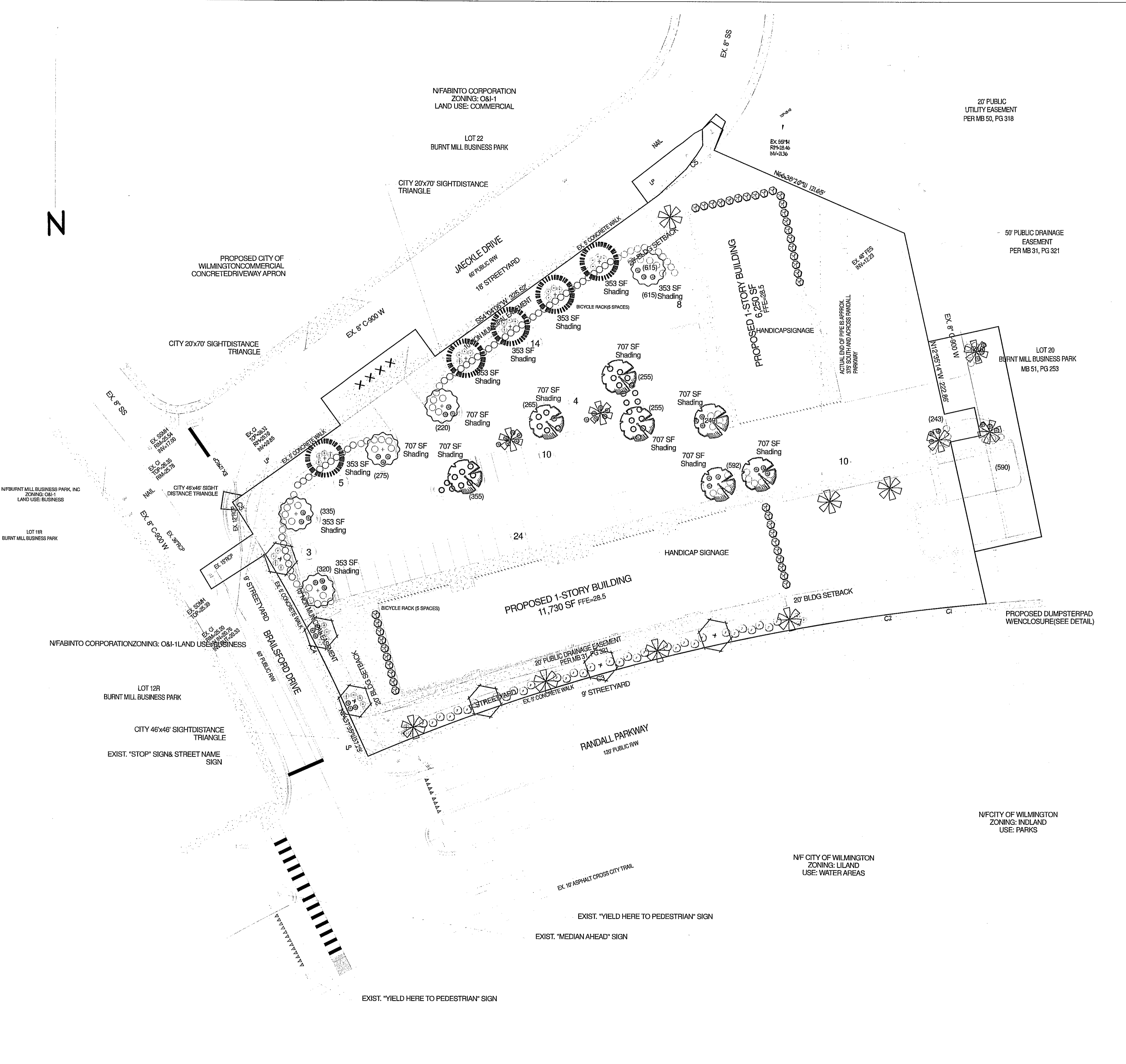
TRIPP ENGINEERING, P.C.
419 Chestnut Street
Wilmington, North Carolina 28401
Phone 910-763-5100
Fax 910-763-5631

DATE: 03-08-18
DESIGN: PGJ
DRAWN: MLV
SHEET 5 OF 5
17059

DETAILS AND NOTES
BURNT MILL BUSINESS PARK LOT 21
3320 JAECKLE DRIVE
WILMINGTON, NORTH CAROLINA

REVISIONS
No. Date Description By
11 ADD GREASE TRAP MLV
06/25/18 & DRAIN BASIN MLV

N



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	2.3 Ac. X 15 = 35 Trees 2" Cal. Required & Provided
SETBACKS REQUIRED	FRONT: 20' REAR: 20' INTERIOR SIDE/CORNER SIDE: 10'/20'
PROPOSED BUILDING SETBACKS	
PROPOSED 11,730 SF BUILDING SETBACKS	JAECKLE DRIVE 99'
	BURNT MILL DRIVE 33.3'
	RANDALL PARKWAY 20.9'
	INTERIOR SIDE 114.9'
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)	17,980 SF
BUILDING LOT COVERAGE (17,980/91,121)	19.7%
NUMBER OF UNITS	2
NUMBER OF BUILDINGS	14
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	31,975 SF
PROPOSED SIDEWALK	6,350 SF
EXISTING IMPERVIOUS	0 SF
FUTURE IMPERVIOUS	12,295 SF
TOTAL IMPERVIOUS AREA	68,600 SF (75%)
PROPOSED OFFSITE IMPERVIOUS AREAS:	
PROPOSED PAVEMENT	1,360 SF
PROPOSED SIDEWALK	175 SF
TOTAL IMPERVIOUS AREA	1,535 SF
TOTAL ONSITE + OFFSITE IMPERVIOUS AREA	70,135 SF
PARKING REQUIRED: (OFFICE)	
MINIMUM: 1/300 SF (15,030 SF)	50
MAXIMUM: 1/200 SF (15,030 SF)	75
PARKING REQUIRED: (RESTAURANT)	
MINIMUM: 1/4 SEATS (108 SEATS)	27
MAXIMUM: 1/2.5 SEATS (43 SEATS)	43
TOTAL PARKING REQUIRED:	77-118
TOTAL PARKING PROVIDED:	78
HANDICAP SPACES REQUIRED (1-25 SPACES=1 HANDICAP SPACE)	3 HANDICAP SPACES
78 SPACES/25=3.12	
BICYCLE PARKING REQUIRED (78 SPACES)	5 BICYCLE PARKS
BICYCLE PARKING PROPOSED	10 BICYCLE PARKS
PUBLIC WATER AND SEWER BY CPUA	
EXISTING SEWER FLOW:	0 GPD
EXISTING WATER FLOW:	0 GPD
PROPOSED SEWER FLOW:	
OFFICE 25 GPD/EMPLOYEE x 60 EMPLOYEES	1,500 GPD
RESTAURANT 40 GPD/SEAT x 108 SEATS	4,320 GPD
PROPOSED SEWER FLOW:	5,820 GPD
PROPOSED WATER FLOW:	
(5,820 x 110%/4)	6,402 GPD
Parking Lot Canopy Coverage	
(31975 SF X 20%) = 6395 SF Shading Required	
8834 SF Shading Provided	
Streetyard Planting Req.	
Jaeckle Drive (18' x 325') = 5850 SF/ 600 = 10 Trees (2" Cal.) & 59 Shrubs (12" Ht.)	
Brailsford Drive (9' x 144') = 1296 SF/ 600 = 3 Trees (2" Cal.) & 13 Shrubs (12" Ht.)	
Randall Parkway (9' x 368') = 3312 SF/ 600 = 6 Trees (2" Cal.) & 34 Shrubs (12" Ht.)	

Legend

Common Name	Qty	Size
Groundcover		
Liriope, Emerald Goddess	108	1 Gal.
Shrub, Ornamental Grass		
Miscanthus 'Adagio'	38	3 Gal.
Shrub, Deciduous		
Rose, Drift, Red	51	3 Gal.
Shrub, Evergreen Broadleaf		
Boxwood, Wintergreen	80	3 Gal.
Holly, Needlepoint 3' Ht.	49	7 Gal.
Holly, Yaupon, Dwarf	74	3 Gal.
Yew, Podocarpus	40	3 Gal.
Shrub, Evergreen Conifer		
Juniper, Parsons	32	3 Gal.
Juniper, Sea Green	34	3 Gal.
Large Shade Tree		
Allee Elm	7	2" Cal.
Live Oak	6	2" Cal.
Trident Maple	5	2" Cal.
Bald Cypress	5	2" Cal.
Small Shade Tree		
Crape Myrtle 'Natchez'	12	8' Ht.

Centipede Sod

Approved Construction Plan

Name	Date
Planning <i>[Signature]</i>	8-14-18
Traffic <i>[Signature]</i>	8-14-18
Fire <i>[Signature]</i>	8-16-18

CITY OF WILMINGTON
NORTH CAROLINA

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: 8/15/18 Permit # 2018035

Signed: *[Signature]*

Per the creative standard, 50% of the streetyard is to be planted
 Jaeckle Drive - 5 Trees (2" Cal.) & 30 Shrubs (12" Ht.) Req'd & Prov'd.
 Brailsford Drive - 2 Trees (2" Cal.) & 7 Shrubs (12" Ht.) Req'd & Prov'd.
 Randall Parkway - 3 Trees (2" Cal.) & 17 Shrubs (12" Ht.) Req'd & Prov'd

LANDSCAPING NOTES

- 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 THIRTY (30) INCHES AND TEN (10) FEET ABOVE THE GROUND WITH IN THE TRIANGULAR SITE DISTANCE.
- 3) PRIOR TO ANY CLEARING, 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 BARRICADED 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.

River Rock and Landscape Fabric to be used in all planting beds.

FREEMAN LANDSCAPE, INC.

Landscape Installation Professionals
 james@freemanlandscape.com
 (910) 796-1166

Revision #: 1
 Date: 7/31/2018

Scale:
 1" = 30'

Landscape Plan:
Burnt Mill Business Park, Lot 21

Landscape Design by: James Freeman Jr. - NCLC# 1955
Freeman Landscape, Inc.