

# CITY OF WILSON MIRACLE FIELD

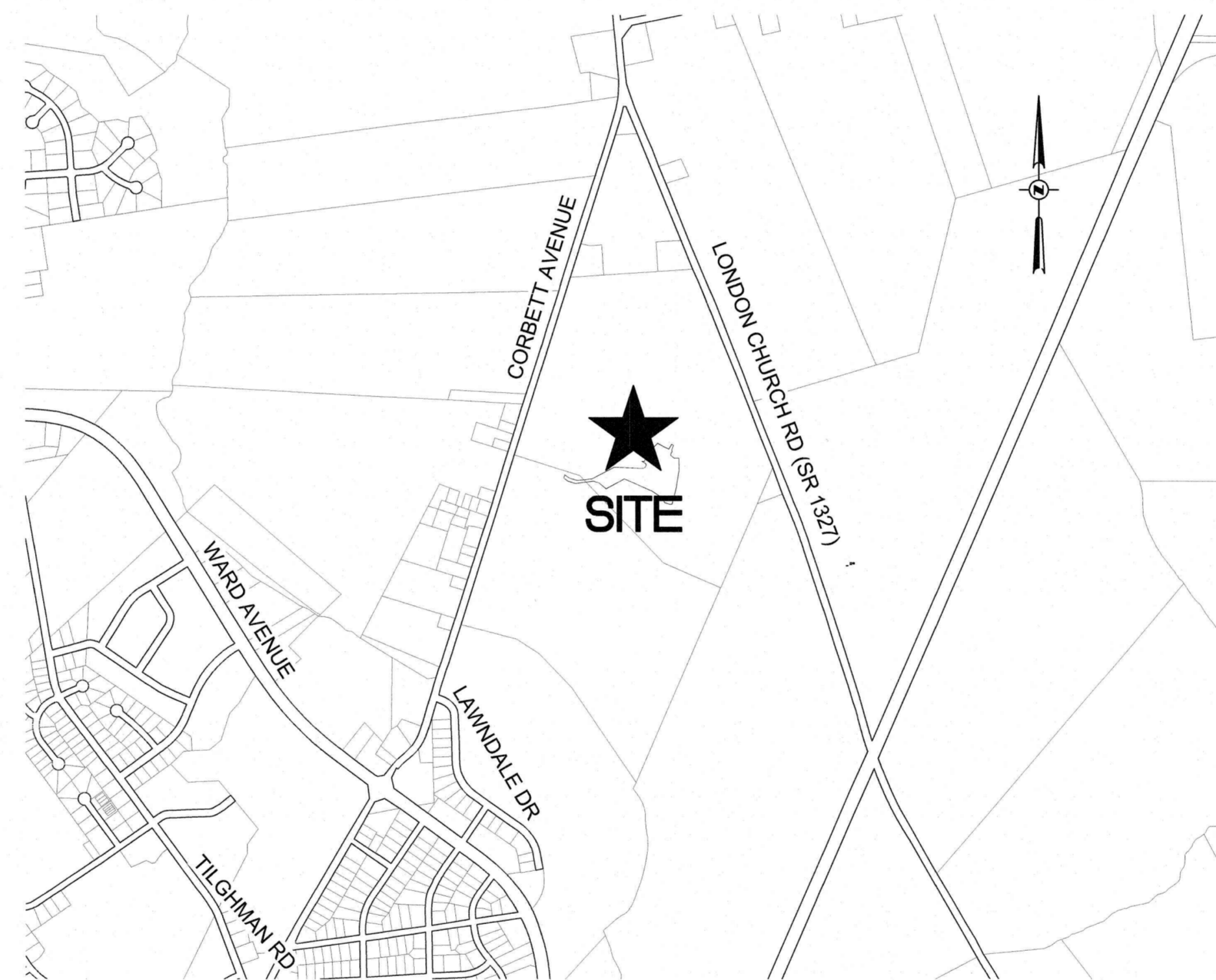
# J. BURT GILLETTE ATHLETIC COMPLEX 3238 CORBETT AVE. WILSON, NC

## CITY OF WILSON

MAYOR: CARLTON L. STEVENS  
 COUNCIL MEMBERS: GILLETTIA MORGAN  
 MICHAEL S. BELL  
 WILLIAM THOMAS FYLE  
 JAMES M. JOHNSON, III  
 DONALD I. EVANS  
 LOGAN T. LILES  
 DERRICK D. CREECH  
 CITY MANAGER: GRANT GOINGS  
 DIRECTOR OF PUBLIC SERVICES:  
 WILLIAM T. BASS, IV

## WILSON PARKS & RECREATION:

DIRECTOR: DAVID LEE  
 PARKS MANAGER: DALE EDMONDS



LOCATION MAP

SCALE 1" = 1000'

## SITE NOTES

**NOTES:**  
 THIS PROPERTY IS LOCATED WITHIN ZONE AE FLOOD HAZARD AREA. (MAP# 3720372200K AND MAP# 3720372300K EFFECTIVE 4/16/2013)  
 THERE ARE NO REGULATORY WETLANDS WITHIN THE PROJECT AREA.  
 ALL OUTDOOR LIGHTING SHALL BE SHIELDED IN SUCH A MANNER THAT NO DIRECT GLARE FROM THE LIGHT SOURCE CAN BE SEEN FROM A MAJOR THOROUGHFARE, AN ADJOINING ZONING DISTRICT, OR FROM ABOVE.  
 ALL PARKING BUFFERS SHALL BE GRASS AND 5' IN WIDTH UNLESS OTHERWISE NOTED.  
 GARBAGE PICK-UP IS BY PRIVATE COLLECTION WITHOUT A DUMPSTER.  
 STANDARD R7-8a RESERVED PARKING AND MAXIMUM PENALTY \$250 NCGS 20-37.6 SIGNS MUST BE INSTALLED IN FRONT OF THE HANDICAP PARKING SPACES. VAN ACCESSIBLE SIGN(S) MUST BE PROVIDED IN FRONT OF VAN ACCESSIBLE SPACES. (SEE DETAIL)  
 ALL CURB CUTS AND/OR RAMPS MUST MEET ALL REQUIREMENTS IN SECTION 4.7 OF VOL. 1-C.  
 ALL REQUIRED EXITS WILL NEED TO BE TREATED AS AN ACCESSIBLE ENTRANCE AS PER SECTION 6.2.1.2, VOL. 1-C AND THESE EXITS MUST MEET ALL REQUIREMENTS OF VOL. 1-C  
 HANDICAP ACCESS SLOPES MUST NOT EXCEED 1/4" RISE PER FOOT (PARKING AREA). MAXIMUM ACCESSIBLE RAMP SLOPE 1:12 AND RAMP RISE GREATER THAN 6 INCHES SHALL HAVE HANDRAILS.  
 AN 8 FOOT WIDE ACCESS AISLE IS NEEDED FOR VAN ACCESSIBLE SPACE. ALL OTHERS CAN BE 5 FEET WIDE.  
 A 48" WIDE MINIMUM CLEAR SPACE REQUIRED.  
 HANDICAP RAMP SHALL HAVE A SLOPE NO GREATER THAN 1 IN 12.  
 HANDICAP SYMBOL CAN NOT BE PAINTED ON PAVEMENT. WHEEL STOPS REQUIRED WHERE PARKING ENCROACHES ON TO SIDEWALK.  
 ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE SPECIFICATIONS OF THE LOCAL GOVERNING BODY.  
 UTILITIES SHOWN ON PLANS ARE LOCATED APPROXIMATELY. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UTILITIES AND SERVICES WHETHER SHOWN ON PLANS OR NOT.  
 CONTRACTOR TO BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF THESE FACILITIES IF DAMAGED.  
 ALL TRAFFIC CONTROL DEVICES (PAVEMENT MARKINGS, SIGNS AND SIGNALS) SHALL BE DESIGNED, INSTALLED AND MAINTAINED IN CONFORMANCE WITH THE STANDARDS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).  
 ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE CITY OF WILSON STANDARD SPECIFICATIONS. USE MOST RESTRICTIVE REGULATIONS WHEN CONFLICT EXISTS.  
 CONTRACTOR TO CALL N.C.O.C.C. AT 1-800-632-4949 A MINIMUM OF 72 HOURS PRIOR TO EXCAVATION/GRADING.  
 \*SITE INSPECTION FEE OF \$354.00 REQUIRED PRIOR TO ISSUANCE OF C.O.

## SITE TABLE

LOT AREA (2 LOTS):	LOT 1-75.31 AND LOT 2-60.8 ACRES
LOT AREA TOTAL RECOMBINED:	136.11 ACRES
EXISTING IMPERVIOUS AREA:	660,114 SQ. FT. (15.15 ACRES) (11.13 % IMPERVIOUS AREA)
IMPERVIOUS AREA REMOVED:	DEMO -4,392 SQ. FT.
NEW IMPERVIOUS AREA ADDED:	BLDG/SHELTER 2,600 SF CONCRETE 20,575 SF ADA FIELD 26,714 SF CONCRETE SWALE 622 SF
TOTAL IMPERVIOUS AREA AFTER CONSTRUCTION:	706,233 SF (16.21 AC) 11.91 % IMP.
BUILDING HEIGHT:	<35 FT.
PROPERTY ADDRESS:	3238 CORBETT AVE.
EXISTING LAND USAGE:	PARKS & RECREATION
OWNER/DEVELOPER:	CITY OF WILSON P.O. BOX 10 WILSON, NC 27893
ZONE:	OS
PARCEL ID No.:	3722-59-7373; 3723-60-1835
REFERENCE:	DB 1362 PG 934; DB 1723 PG 701

## SHEET INDEX

- SHEET INDEX:
- 1 - COVER
  - 2 - EXISTING CONDITIONS AND DEMOLITION PLAN
  - 3 - SITE AND UTILITIES PLAN
  - 4 - GRADING PLAN
  - 5 - DETAILED GRADING PLAN
  - 6 - EROSION CONTROL PLAN
  - 7 - 13 DETAILS

LOT AREA (SQ.FT.)	MAX. % IMPERVIOUS AREA	MAX. AREA IMPERVIOUS SURFACE ALLOWED (SQ.FT.)	EXISTING IMPERVIOUS AREA (SQ.FT.)	PROPOSED IMPERVIOUS AREA (SQ.FT.)	REMAINING IMPERVIOUS AREA ALLOWED (SQ.FT.)
5,928,951	24.00%	1,422,948	660,114	706,233	716,715

APRIL 2022	Maximum Impervious	Undisturbed Open Space (ac)	Nitrogen Loading (lbs)	Managed Open Space (ac)	Nitrogen Loading (lbs)	Impervious Area (ac)	Nitrogen Loading (lbs)	TOTAL N Loading w/o BMP's (lbs)	Nitrogen Reduction BMP's Factor	TOTAL Nitrogen Loading with BMP's (lbs)	TOTAL Nitrogen lbs/ac/yr	Excess Nitrogen lbs/ac/yr	
Lot #	Acreage	Percentage	Space (ac)	(lbs)	Space (ac)	(lbs)	Area (ac)	(lbs)	BMP's (lbs)	BMP's Factor	(lbs)	(lbs/ac/yr)	
1 and 2 (to be recombined)	136.110	0.24	42.48	25.488	77.417	92.901	16.213	343.713	462.102	N/A	1	462.102	3.395
Totals	136.110							462.102					
BMP	Type	TN Removal Rate											
P	Pond	25%											
DT	Dry Detention	10%											
SF	Sand Filter	35%											
S	Open Channel	20%											
B	Bioretention	35%											
W	Constructed Wetlands	40%											
RP	Riparian Buffers	30%											
FS	Veg. Filter Strips	30%											
PRO	Proprietary BMP's	Varies											
								TOTAL NITROGEN (LBS)			462.102		
								TOTAL NITROGEN (LBS/ACRE/YR)			3.395		
								Total Development Acreage			136.11		
								(LESS THAN 3.6; NO REDUCTION OR BUYDOWN REQUIRED)					

**Compliance Statement**  
 5. and 6. Certificate of Approval under Neuse River Basin Stormwater Protection Program for Nitrogen Removal Regulations  
 I certify that the (plat/development plan) shown hereon is exempt from the peak flow requirements since the overall imperviousness of the site is less than 15%.  
 I certify that the plat/development plan shown hereon complies with the Neuse River Basin Stormwater Program for Nitrogen Removal Regulations for the City of Wilson  
 Public Services / Stormwater Date \_\_\_\_\_  
 8. This plat/development plan is in the WS3-P watershed district and the developer is using the low density option of 24% impervious.  
 12. Certificate of Approval under Watershed Protection Regulations.  
 I certify that the plat/development plan shown hereon complies with the Watershed Protection Regulations for the City of Wilson  
 Public Services / Watershed Administrator Date \_\_\_\_\_

NO ADDITIONS, DELETIONS, CHANGES OR MODIFICATIONS WERE MADE TO THIS PLAN OTHER THAN THOSE REQUESTED BY THE CITY OF WILSON TECHNICAL REVIEW COMMITTEE.

*E. Leo Green III* 5/12/2022  
 ENGINEER/SURVEYOR/ARCHITECT SIGNATURE & SEAL DATE



**GREEN ENGINEERING**  
 WATER, WASTEWATER, SURVEYING, PLANNING, PROJECT MANAGEMENT

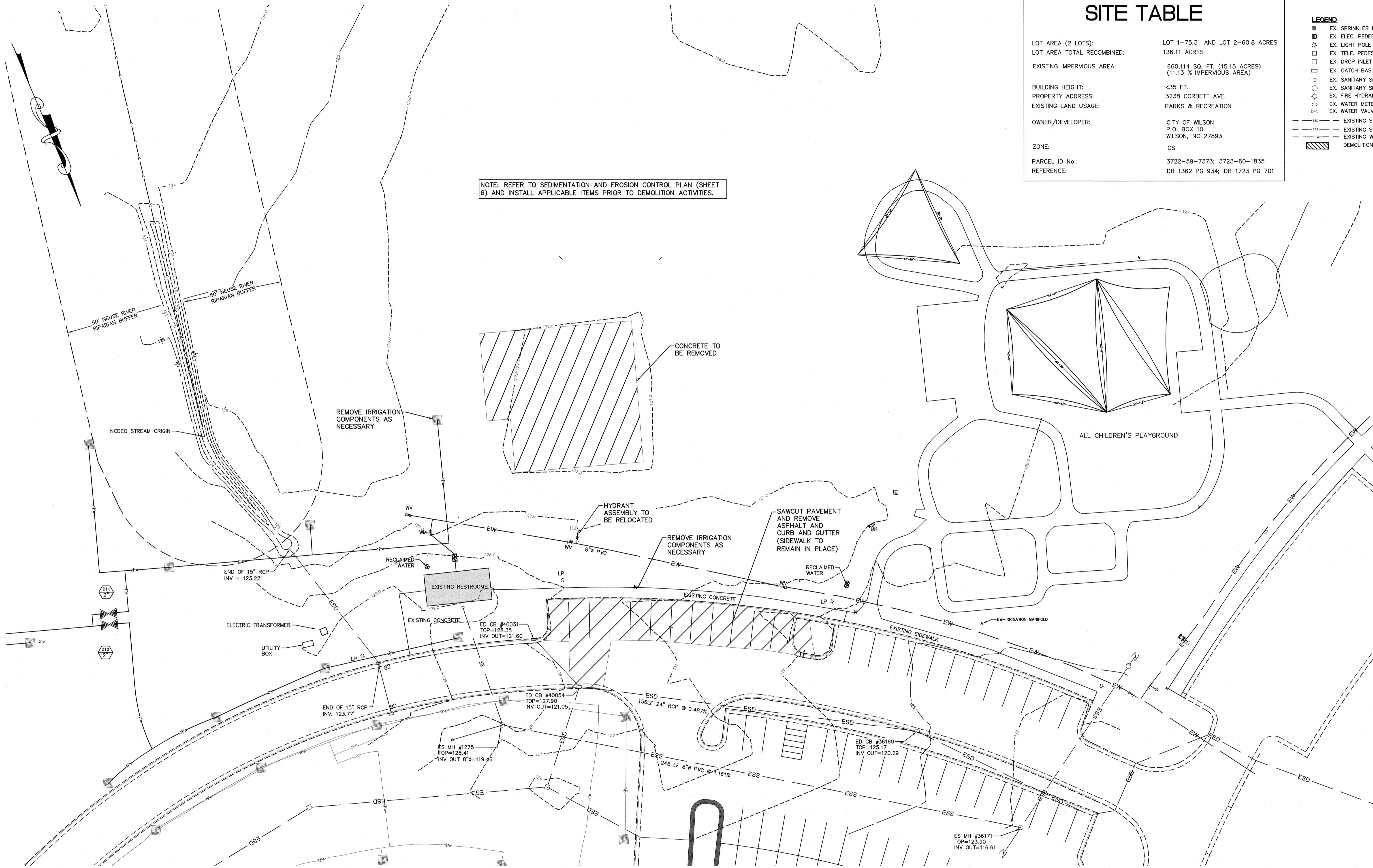
NC FIRM LICENSE: P-0115  
 303 GOLDSBORO ST. E. P.O. BOX 609 WILSON, N.C. 27893  
 TEL (252) 237-5365 FAX (252) 243-7489 OFFICE @ GREENENG.COM

# SITE TABLE

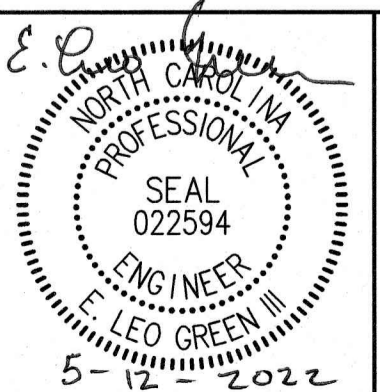
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 P.O. BOX 10  
 WILSON, NC 27893  
 ZONE: OS  
 PARCEL ID No.: 3722-59-7373; 3723-60-1835  
 REFERENCE: DB 1362 PG 934; DB 1723 PG 701

- LEGEND**
- EX. SPRINKLER HEAD OUTSIDE FIELD
  - EX. ELEC. PEDESTAL
  - ⊛ EX. LIGHT POLE
  - ⊛ EX. TELE. PEDESTAL
  - EX. DROP INLET
  - EX. CATCH BASIN
  - EX. SANITARY SEWER CLEANOUT
  - EX. SANITARY SEWER MANHOLE
  - ⊛ EX. FIRE HYDRANT
  - ⊛ EX. WATER METER
  - ⊛ EX. WATER VALVE
  - EXISTING STORM DRAINAGE PIPE
  - EXISTING SANITARY SEWER
  - EXISTING WATER LINE
  - ▨ DEMOLITION

NOTE: REFER TO SEDIMENTATION AND EROSION CONTROL PLAN (SHEET 6) AND INSTALL APPLICABLE ITEMS PRIOR TO DEMOLITION ACTIVITIES.



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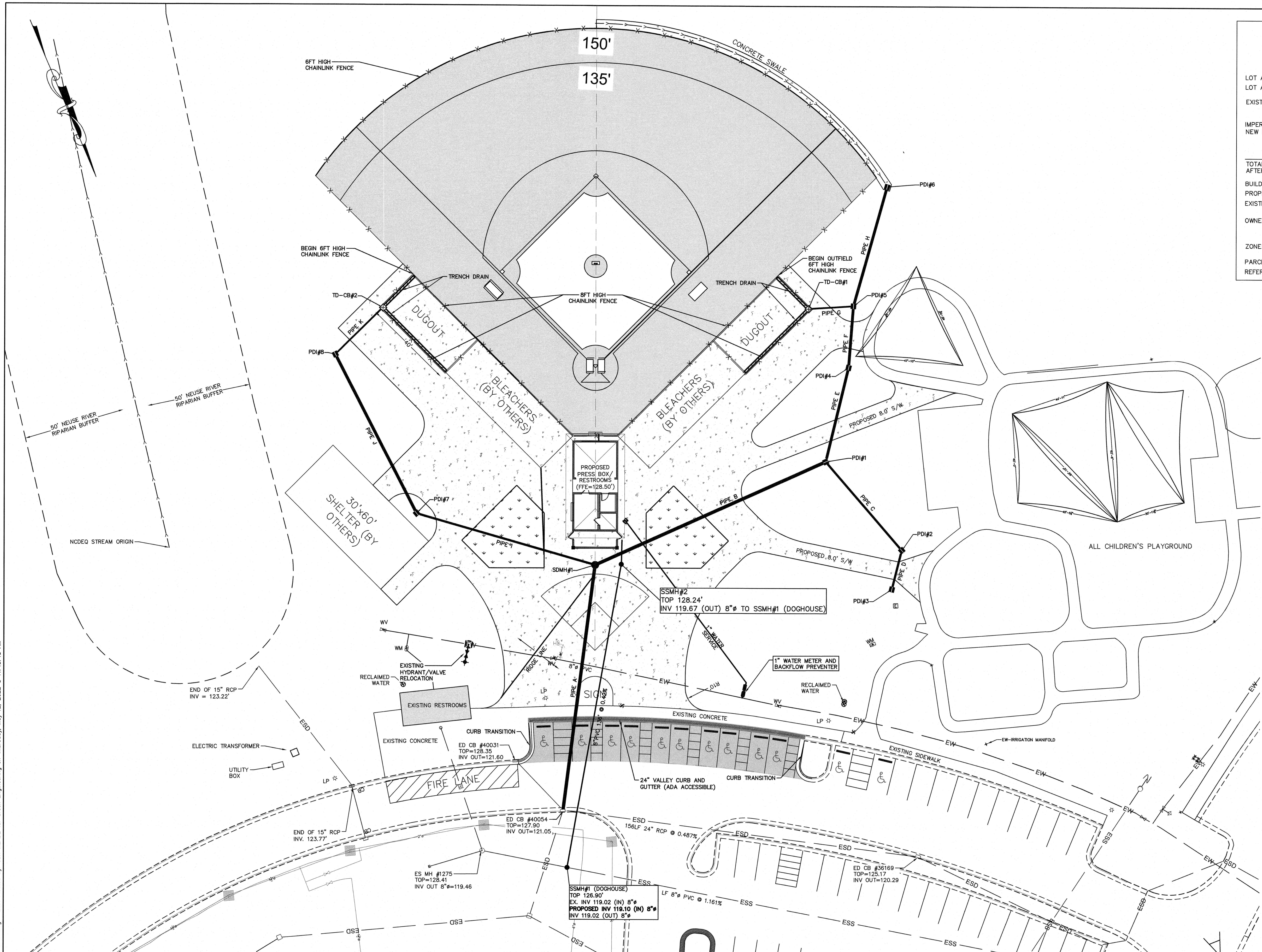
**MIRACLE FIELD**  
**J. BURT GILLETTEATHLETIC COMPLEX**  
 CITY OF WILSON  
 WILSON COUNTY, NORTH CAROLINA

**EXISTING CONDITIONS AND DEMOLITION PLAN**

REVISION	DATE	BY	May 11, 2022
EC-NCDEQ LAND QUALITY	5/11/22	JM	
GRAPHIC SCALES			
PLAN & PROFILE (HORIZONTAL)			
CLIENT CODE: WILSO			
JOB NUMBER: 19-004			
FIELD BOOK: CW			
CADFILE:			
ASCII FILE:			
LAST MODIFIED: 12-May-22			
MODIFIED BY: JLM			
SHEET NO. 2 OF 13			

# SITE TABLE

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PARCEL ID No.:	3722-59-7373; 3723-60-1835
REFERENCE:	DB 1362 PG 934; DB 1723 PG 701



**PROPOSED LEGEND**

- PROPOSED 24" ADA VALLEY CURB
- PROPOSED FIRE HYDRANT
- PROPOSED VALVE
- PROPOSED WATER METER
- PROPOSED WATER LINE
- PROPOSED SS MANHOLE
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER LINE
- PROPOSED TRENCH DRAIN
- PROPOSED CATCH BASIN
- PROPOSED 24"x36" DROP INLET
- PROPOSED TRENCH DRAIN BASIN
- PROPOSED 1' CONTOURS
- PROPOSED 5' CONTOURS
- PROPOSED EDGE OF PAVEMENT ELEV.
- PROPOSED BACK OF CURB ELEV.
- PROPOSED SIDEWALK ELEV.
- PROPOSED EDGE OF PAVEMENT/SIDEWALK ELEV.

**LEGEND**

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- EXISTING SANITARY SEWER
- EXISTING WATER LINE
- DEMOLITION

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**MIRACLE FIELD**  
**J. BURT GILLETTE ATHLETIC COMPLEX**  
 CITY OF WILSON  
 WILSON COUNTY, NORTH CAROLINA

**SITE AND UTILITIES PLAN**

REVISION	DATE	BY	May 11, 2022
EC-NCDEQ LAND QUALITY	5/11/22	JM	

GRAPHIC SCALES  
 0 10 20 40  
 PLAN & PROFILE (HORIZONTAL)

CLIENT CODE: WILSO  
 JOB NUMBER: 19-004  
 FIELD BOOK: CW  
 CADFILE:  
 LAST MODIFIED: 12-May-22  
 MODIFIED BY: JLM

SHEET NO. 3 OF 13

NEW STABILIZATION TIMEFRAMES (EFFECTIVE AUG. 3, 2011)		
SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES, SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE STEEPER THAN 2:1, 14 DAYS ARE ALLOWED
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HOW ZONES

**LEGEND**

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**PROPOSED LEGEND**

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- PROPOSED EDGE OF PAVEMENT ELEV.
- PROPOSED BACK OF CURB ELEV.
- PROPOSED SIDEWALK ELEV.
- PROPOSED EDGE OF PAVEMENT/SIDEWALK ELEV.

**PROPOSED ELEVATIONS**

- EP=19.70'
- BC=19.70'
- SW=19.70'
- EP/SW=19.70'

**SITE NOTES:**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE TRAFFIC CONTROL IN OR ADJACENT TO NCDOT OR TOWN RIGHT-OF-WAY. ALL METHODS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NC DOT STANDARDS.

CONTRACTOR TO COORDINATE INSTALLATION OF CONDUITS FOR PHONES & LIGHTING.

UNUSABLE EXCAVATED MATERIALS AND ALL WASTE RESULTING FROM CLEARING AND GRUBBING SHALL BE DISPOSED OF AT AN APPROVED PERMITTED OFF-SITE LOCATION BY CONTRACTOR.

CONTRACTOR RESPONSIBLE FOR COMPLYING WITH ALL REQUIREMENTS/ CONDITIONS OF ALL ENCROACHMENTS & PERMITS INCLUDING PROVIDING BONDS/INSURANCE IF REQUIRED.

CONTRACTOR IS RESPONSIBLE FOR COORDINATING REQUIRED INSPECTIONS.

CALL ONE CALL CENTER AT 1-800-632-4949 FOR LOCATIONS OF EXISTING UTILITIES 48 HOURS MINIMUM PRIOR TO EXCAVATION.

**EXCAVATION AND GRADING PLAN NOTES:**

ALL AREAS NOT COVERED BY BUILDING OR PAVING TO BE GRASSED, LANDSCAPED OR LEFT NATURAL AS INDICATED.

CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES ON OR ADJACENT TO THE SITE BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING OR CONNECTING TO SAID FACILITIES. CONTRACTOR SHALL RAISE OR LOWER TOPS OF EXISTING MANHOLES AS REQUIRED TO MATCH FINISHED GRADES.

BEFORE ANY MACHINE WORK IS DONE, CONTRACTOR SHALL TAKE OUT AND MARK ITEMS ESTABLISHED BY THE SITE PLAN. CONTROL POINTS SHALL BE PRESERVED AT ALL TIMES DURING THE COURSE OF THE PROJECT. LACK OF THE PROPER WORKING POINTS AND GRADE STAKES MAY REQUIRE CESSATION OF OPERATIONS UNTIL SUCH POINTS AND GRADES HAVE BEEN REPLACED TO THE OWNERS SATISFACTION.

**EXISTING CONDITIONS:**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL EXISTING JOB CONDITIONS. ANY ADVERSE CONDITIONS AFFECTING WORK SHOWN ON THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR POSSIBLE CLARIFICATION OR RECONCILIATION.

**CONSTRUCTION SAFETY:**

THESE DRAWINGS DO NOT CONTAIN THE REQUIREMENTS FOR JOB SAFETY. ALL PROVISIONS FOR SAFETY SHALL BE SOLE RESPONSIBILITY OF THE CONTRACTOR.

**STRUCTURAL FILL:**

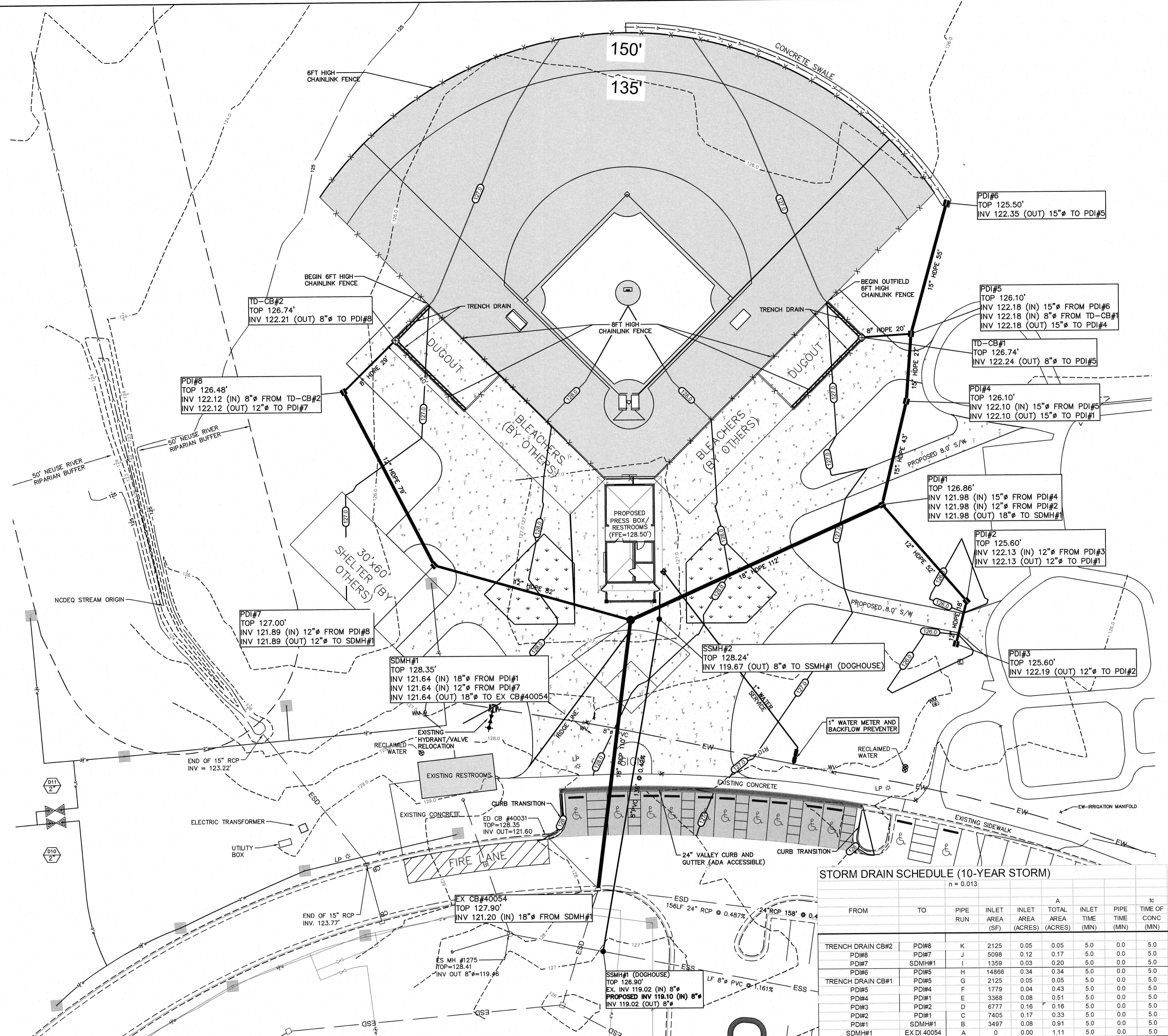
ALL NEWLY PLACED STRUCTURAL FILL OR BACK FILL SHOULD BE COMPACTED TO NOT LESS THAN 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY EXCEPT IN THE FINAL FOOT BENEATH PAVEMENT STRUCTURES WHERE THE REQUIREMENT SHOULD BE INCREASED TO 98% OF THE PROCTOR MAXIMUM DRY DENSITY. IT IS NOT ANTICIPATED THAT EITHER DEEPER EXCAVATION OR GROUND WATER WILL BE ENCOUNTERED FOR CUT DEPTHS UP TO 15 FEET ON THIS SITE. ALTHOUGH THE SOIL APPEARS TO BE WELL SUITED FOR REUSE AS STRUCTURAL FILL, IT SHOULD BE RECOGNIZED THAT CLAY SOILS ARE SENSITIVE TO MOISTURE, AND THEREFORE, IT IS RECOMMENDED THAT EARTHWORK BE PERFORMED DURING THE DRIER MONTHS OF THE YEAR. THE CONTRACTOR SHOULD BE PREPARED TO MONITOR MOISTURE CONDITION OF THE SOILS AS NECESSARY IN ORDER TO IMPROVE THE EFFICIENCY OF THE COMPACTING OPERATIONS AND EFFORTS.

**OFFSITE BORROW / TRENCH BORROW:**

OFFSITE BORROW MATERIAL PLACED ON SITE SHOULD BE LOW PLASTICITY (PI LESS THAN 25 AND LL LESS THAN 50) AND SHALL BE FREE OF ORGANIC MATERIAL OR DEBRIS. PLACE FILL IN 8" TO 10" LOOSE LIFTS AND COMPACT TO 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY, ASTM D698. THE MOISTURE CONTENT OF THE SOIL SHOULD BE MAINTAINED WITHIN 3 PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT DETERMINED BY THE SAME TEST. OFF-SITE BORROW MATERIAL TO BE OBTAINED FROM A PERMITTED SOURCE.

**ADA AND LEGAL DISCLAIMER:**

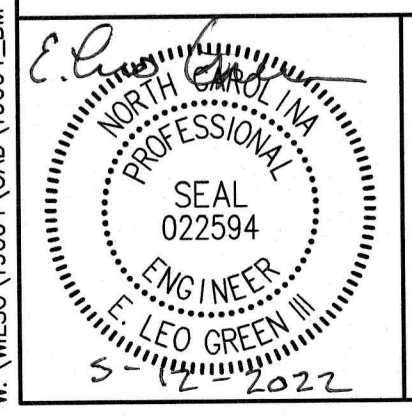
THIS DOCUMENT IS NOT REPRESENTED TO COMPLY WITH ALL REQUIREMENTS CONTAINED IN THE ADA OR OTHER LAWS. ENGINEERS ARE NOT LICENSED TO INTERPRET LAWS OR GIVE ADVICE CONCERNING LAWS. THE OWNER SHOULD HAVE THIS DOCUMENT REVIEWED BY HIS ATTORNEY TO DETERMINE LEGAL COMPLIANCE.



**STORM DRAIN SCHEDULE (10-YEAR STORM)**

FROM	TO	PIPE RUN	INLET AREA (SF)	INLET AREA (ACRES)	A TOTAL AREA (ACRES)	INLET TIME (MIN)	PIPE TIME (MIN)	tc TIME OF CONC (MIN)	I INTENSITY (IN/HR)	Cc COEFF	Q10 RUNOFF (CFS)	SLOPE (FT/FT)	Dtheo (INCHES)	SIZE (INCHES)	Vu11 (FT/SEC)	Qru11 (CFS)	LENGTH PIPE (FT)	SEGMENT TIME (MIN)	UPPER INVERT	LOWER INVERT	
TRENCH DRAIN CB#2	PDI#8	K	2125	0.05	0.05	5.0	0.0	5.0	7.54	0.90	0.90	0.3	0.0030	6.2	8	1.9	0.7	28	0.2	122.207	122.123
PDI#8	PDI#7	J	5098	0.12	0.17	5.0	0.0	5.0	7.54	0.85	0.86	1.1	0.0030	9.6	12	2.5	2.0	79	0.5	122.123	121.886
PDI#7	SDMH#1	I	1359	0.03	0.20	5.0	0.0	5.0	7.54	0.90	0.87	1.3	0.0030	10.3	12	2.5	2.0	82	0.6	121.886	121.640
TRENCH DRAIN CB#1	PDI#5	G	2125	0.05	0.05	5.0	0.0	5.0	7.54	0.90	0.90	2.3	0.0030	12.8	15	2.9	3.5	55	0.3	122.350	122.185
PDI#5	PDI#4	F	1779	0.04	0.43	5.0	0.0	5.0	7.54	0.80	0.79	2.6	0.0030	13.3	15	2.9	3.5	27	0.2	122.242	122.104
PDI#4	PDI#3	E	3368	0.08	0.51	5.0	0.0	5.0	7.54	0.80	0.79	3.0	0.0030	14.1	15	2.9	3.5	43	0.2	122.104	121.975
PDI#3	PDI#2	D	6777	0.16	0.16	5.0	0.0	5.0	7.54	0.80	0.80	0.9	0.0030	9.1	12	2.5	2.0	18	0.1	122.185	122.131
PDI#2	PDI#1	C	7405	0.17	0.33	5.0	0.0	5.0	7.54	0.80	0.80	2.0	0.0030	12.0	12	2.5	2.0	52	0.3	122.131	121.975
PDI#1	SDMH#1	B	3497	0.08	0.91	5.0	0.0	5.0	7.54	0.80	0.79	5.5	0.0030	17.7	18	3.3	5.8	112	0.6	121.975	121.640
SDMH#1	EX DI 40054	A	0	0.00	1.11	5.0	0.0	5.0	7.54	0.90	0.81	6.8	0.0040	18.1	18	3.8	6.6	110	0.5	121.640	121.200

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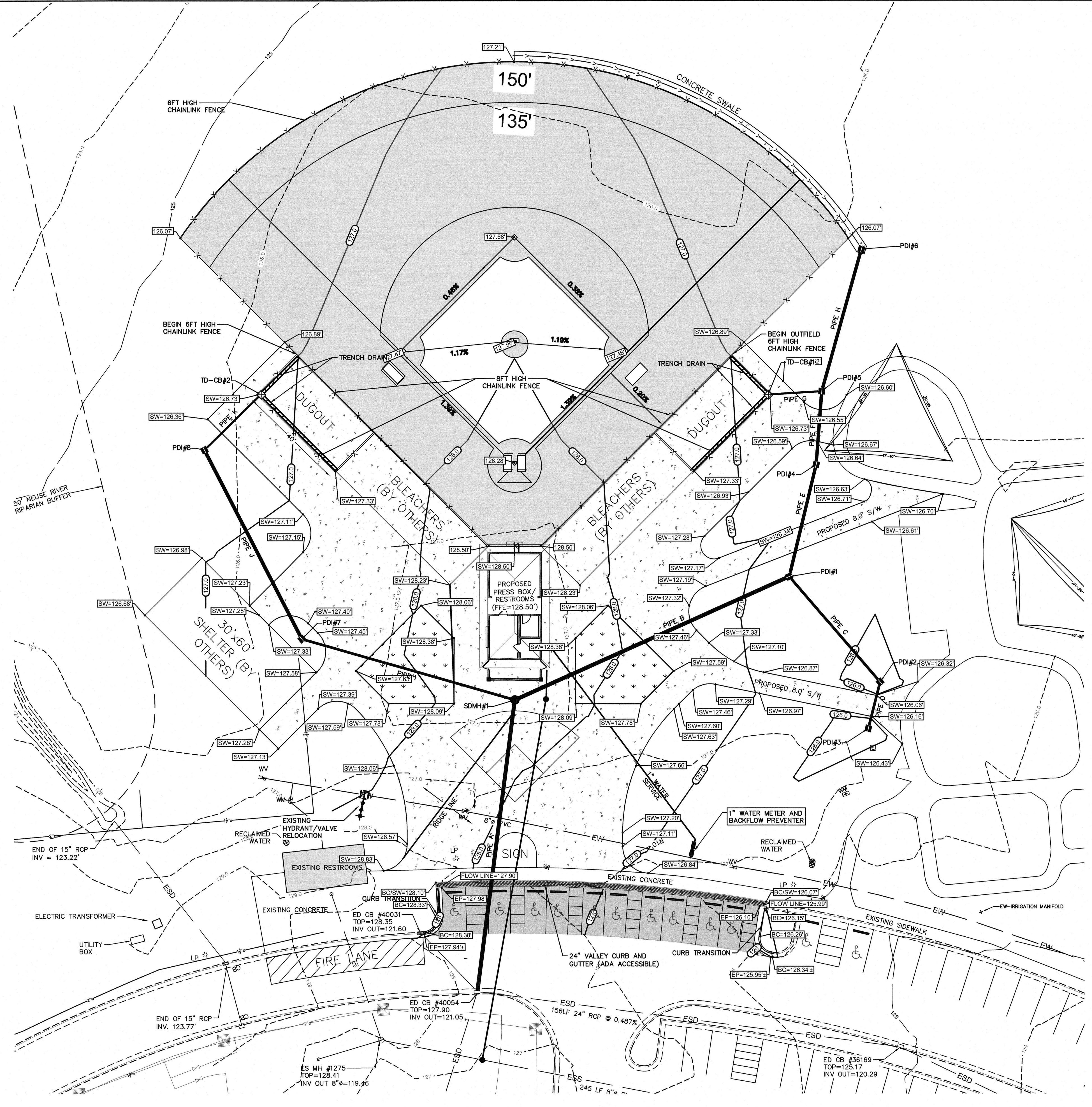
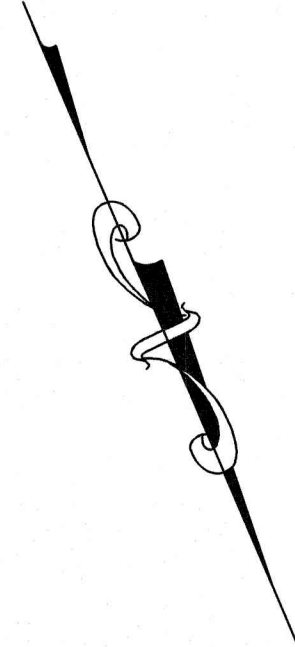
**MIRACLE FIELD**  
**J. BURT GILLETTE ATHLETIC COMPLEX**  
 CITY OF WILSON WILSON COUNTY, NORTH CAROLINA

**GRADING PLAN**

REVISION	DATE	BY	May 11, 2022
EC-NCDEQ LAND QUALITY	5/11/22	JM	

CLIENT CODE: WILSO  
 JOB NUMBER: 19-004  
 FIELD BOOK: CW  
 CADFILE:  
 ASCII FILE:  
 LAST MODIFIED: 12-May-22  
 MODIFIED BY: JLM

SHEET NO. 4 OF 13



PROPOSED LEGEND	
PROPOSED 24" ADA VALLEY CURB	[Symbol]
PROPOSED FIRE HYDRANT	[Symbol]
PROPOSED VALVE	[Symbol]
PROPOSED WATER METER	[Symbol]
PROPOSED WATER LINE	[Symbol]
PROPOSED SS MANHOLE	[Symbol]
PROPOSED SANITARY SEWER	[Symbol]
PROPOSED STORM SEWER LINE	[Symbol]
PROPOSED TRENCH DRAIN	[Symbol]
PROPOSED CATCH BASIN	[Symbol]
PROPOSED 24"x36" DROP INLET	[Symbol]
PROPOSED TRENCH DRAIN BASIN	[Symbol]
PROPOSED 1' CONTOURS	[Symbol]
PROPOSED 5' CONTOURS	[Symbol]
PROPOSED EDGE OF PAVEMENT ELEV.	[Symbol]
PROPOSED BACK OF CURB ELEV.	[Symbol]
PROPOSED SIDEWALK ELEV.	[Symbol]
PROPOSED EDGE OF PAVEMENT/SIDEWALK ELEV.	[Symbol]
<b>LEGEND</b>	
[Symbol]	EX. SPRINKLER HEAD OUTSIDE FIELD
[Symbol]	EX. ELEC. PEDESTAL
[Symbol]	EX. LIGHT POLE
[Symbol]	EX. TELE. PEDESTAL
[Symbol]	EX. DROP INLET
[Symbol]	EX. CATCH BASIN
[Symbol]	EX. SANITARY SEWER CLEANOUT
[Symbol]	EX. SANITARY SEWER MANHOLE
[Symbol]	EX. FIRE HYDRANT
[Symbol]	EX. WATER METER
[Symbol]	EX. WATER VALVE
[Symbol]	EXISTING STORM DRAINAGE PIPE
[Symbol]	EXISTING SANITARY SEWER
[Symbol]	EXISTING WATER LINE
[Symbol]	DEMOLITION

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**MIRACLE FIELD**  
**J. BURT GILLETTEATHLETIC COMPLEX**  
 CITY OF WILSON WILSON COUNTY, NORTH CAROLINA

**DETAILED GRADING**  
**PLAN**

REVISION	DATE	BY	May 11, 2022
EC-NCDEQ LAND QUALITY	5/11/22	JM	

CLIENT CODE: WILSO  
 JOB NUMBER: 19-004  
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 CADFILE:  
 ASCII FILE:  
 LAST MODIFIED: 12-May-22  
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SHEET NO. **5** OF 13

**TEMPORARY DIVERSION CALCULATIONS**

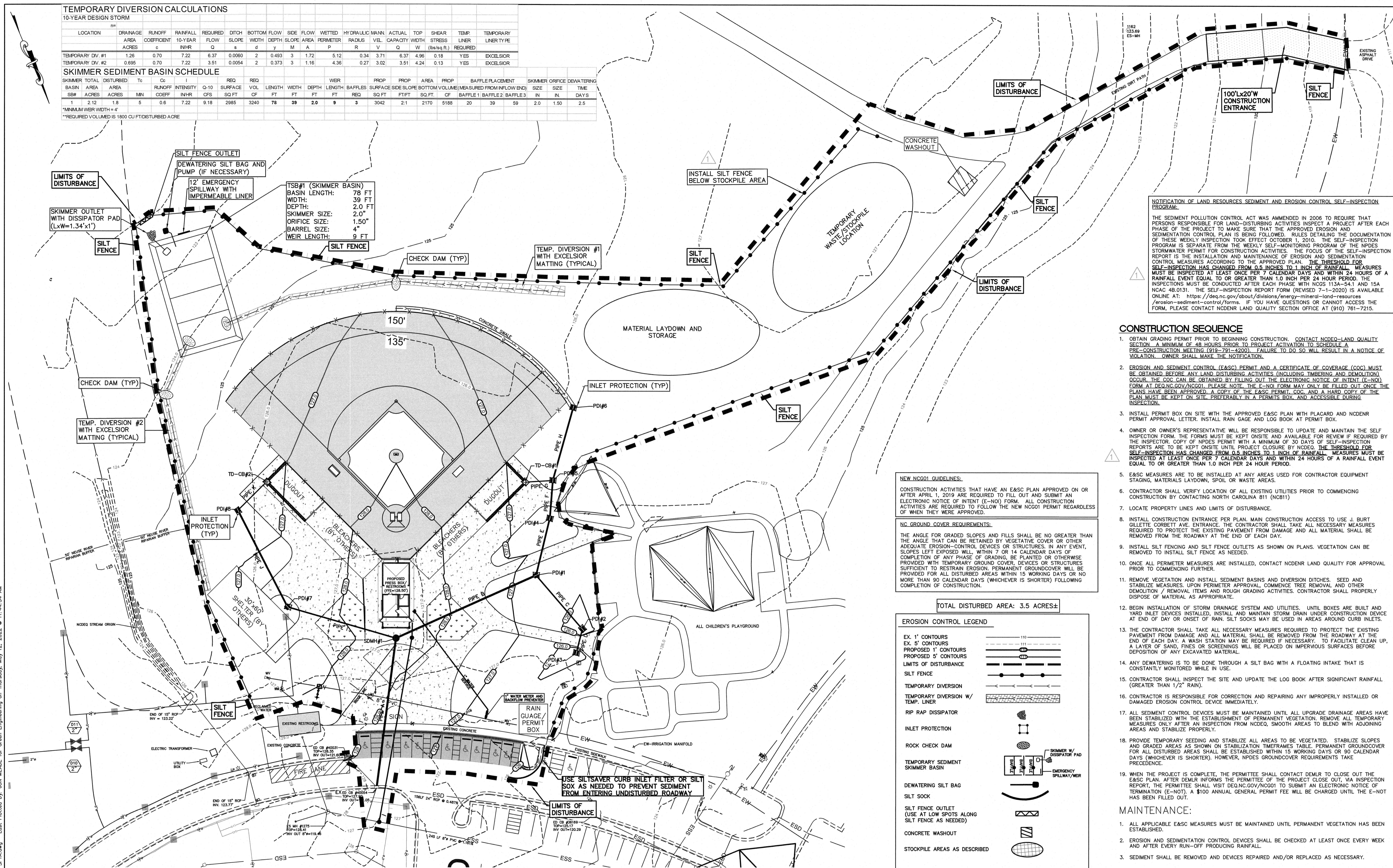
10-YEAR DESIGN STORM

LOCATION	DRAINAGE AREA ACRES	RUNOFF COEFFICIENT	10-YEAR RAINFALL IN/HR	REQUIRED FLOW CFS	DITCH SLOPE	BOTTOM WIDTH FT	FLOW DEPTH FT	SIDE SLOPE	FLOW AREA SQ.FT	WETTED PERIMETER P	HYDRAULIC RADIUS R	MANN VEL. V	ACTUAL CAPACITY Q	TOP WIDTH W	SHEAR STRESS LBS/SQ.FT	TEMP. LNER	TEMPORARY LINER TYPE
TEMPORARY DV. #1	1.26	0.70	7.22	6.37	0.0960	2	0.493	3	1.72	5.12	0.34	3.71	6.37	4.96	0.18	YES	EXCELSIOR
TEMPORARY DV. #2	0.695	0.70	7.22	3.51	0.0054	2	0.373	3	1.16	4.36	0.27	3.02	3.51	4.24	0.13	YES	EXCELSIOR

**SKIMMER SEDIMENT BASIN SCHEDULE**

SKIMMER	TOTAL AREA	DISTURBED AREA	Tc	Cc	I	INTENSITY	Q-10	REQ. SURFACE SQ.FT	REQ. VOL. OF	REQ. LENGTH FT	REQ. WIDTH FT	REQ. DEPTH FT	REQ. WEIR LENGTH FT	REQ. BAFFLES	PROP. SURFACE SQ.FT	PROP. SIDE SLOPE	PROP. BOTTOM VOLUME (MEASURED FROM INFLOW END)	PROP. AREA SQ.FT	PROP. PERIMETER CF	PROP. BAFFLE PLACEMENT	SKIMMER ORIFICE IN	DEWATERING SIZE IN	DEWATERING TIME DAYS
1	2.12	1.8	5	0.6	7.22	9.18	2985	3240	78	39	2.0	9	3	3042	2:1	2170	5188	20	39	59	2.0	1.50	2.5

\*MINIMUM WEIR WIDTH = 4"  
\*REQUIRED VOLUME IS 1800 CU FT/DISTURBED ACRE



**NOTIFICATION OF LAND RESOURCES SEDIMENT AND EROSION CONTROL SELF-INSPECTION PROGRAM.**

THE SEDIMENT POLLUTION CONTROL ACT WAS AMENDED IN 2006 TO REQUIRE THAT PERSONS RESPONSIBLE FOR LAND-DISTURBING ACTIVITIES INSPECT A PROJECT AFTER EACH PHASE OF THE PROJECT TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. RULES DETAILING THE DOCUMENTATION OF THESE WEEKLY INSPECTIONS TOOK EFFECT OCTOBER 1, 2010. THE SELF-INSPECTION PROGRAM IS SEPARATE FROM THE WEEKLY SELF-MONITORING PROGRAM OF THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES. THE FOCUS OF THE SELF-INSPECTION REPORT IS THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL MEASURES ACCORDING TO THE APPROVED PLAN. THE THRESHOLD FOR SELF-INSPECTION HAS CHANGED FROM 0.5 INCHES TO 1 INCH OF RAINFALL. MEASURES MUST BE INSPECTED AT LEAST ONCE PER 7 CALENDAR DAYS AND WITHIN 24 HOURS OF A RAINFALL EVENT EQUAL TO OR GREATER THAN 1.0 INCH PER 24 HOUR PERIOD. THE INSPECTIONS MUST BE CONDUCTED AFTER EACH PHASE WITH NCGS 113A-54.1 AND 15A NCAC 4B.0131. THE SELF-INSPECTION REPORT FORM (REVISED 7-1-2020) IS AVAILABLE ONLINE AT: <https://deq.nc.gov/about/divisions/energy-mineral-land-resources/erosion-sediment-control/forms>. IF YOU HAVE QUESTIONS OR CANNOT ACCESS THE FORM, PLEASE CONTACT NCDENR LAND QUALITY SECTION OFFICE AT (910) 761-7215.

**CONSTRUCTION SEQUENCE**

- OBTAIN GRADING PERMIT PRIOR TO BEGINNING CONSTRUCTION. CONTACT NCDENR-LAND QUALITY SECTION. A MINIMUM OF 48 HOURS PRIOR TO PROJECT ACTIVATION TO SCHEDULE A PRE-CONSTRUCTION MEETING (919-791-4200). FAILURE TO DO SO WILL RESULT IN A NOTICE OF VIOLATION. OWNER SHALL MAKE THE NOTIFICATION.
- EROSION AND SEDIMENT CONTROL (E&SC) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE ANY LAND-DISTURBING ACTIVITIES (INCLUDING TIMBERING AND DEMOLITION) OCCUR. THE COC CAN BE OBTAINED BY FILLING OUT THE ELECTRONIC NOTICE OF INTENT (E-NOI) FORM AT [DEQ.NC.GOV/NCEQ](http://deq.nc.gov/nceq). PLEASE NOTE, THE E-NOI FORM MAY ONLY BE FILLED OUT ONCE THE PLANS HAVE BEEN APPROVED. A COPY OF THE E&SC PERMIT, COC, AND A HARD COPY OF THE PLAN MUST BE KEPT ON SITE, PREFERABLY IN A PERMITS BOX, AND ACCESSIBLE DURING INSPECTION.
- INSTALL PERMIT BOX ON SITE WITH THE APPROVED E&SC PLAN WITH PLACARD AND NCDENR PERMIT APPROVAL LETTER. INSTALL RAIN GAGE AND LOG BOOK AT PERMIT BOX.
- OWNER OR OWNER'S REPRESENTATIVE WILL BE RESPONSIBLE TO UPDATE AND MAINTAIN THE SELF INSPECTION FORM. THE FORMS MUST BE KEPT ON SITE AND AVAILABLE FOR REVIEW IF REQUIRED BY THE INSPECTOR. COPY OF NPDES PERMIT WITH A MINIMUM OF 30 DAYS OF SELF-INSPECTION REPORTS ARE TO BE KEPT ON SITE UNTIL PROJECT CLOSURE BY NCDENR. THE THRESHOLD FOR SELF-INSPECTION HAS CHANGED FROM 0.5 INCHES TO 1 INCH OF RAINFALL. MEASURES MUST BE INSPECTED AT LEAST ONCE PER 7 CALENDAR DAYS AND WITHIN 24 HOURS OF A RAINFALL EVENT EQUAL TO OR GREATER THAN 1.0 INCH PER 24 HOUR PERIOD.
- E&SC MEASURES ARE TO BE INSTALLED AT ANY AREAS USED FOR CONTRACTOR EQUIPMENT STAGING, MATERIALS LAYDOWN, SOIL OR WASTE AREAS.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION BY CONTACTING NORTH CAROLINA 811 (NC811)
- LOCATE PROPERTY LINES AND LIMITS OF DISTURBANCE.
- INSTALL CONSTRUCTION ENTRANCE PER PLAN. MAIN CONSTRUCTION ACCESS TO USE J. BURT GILLETTE CORRETT AVE. ENTRANCE. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES REQUIRED TO PROTECT THE EXISTING PAVEMENT FROM DAMAGE AND ALL MATERIAL SHALL BE REMOVED FROM THE ROADWAY AT THE END OF EACH DAY.
- INSTALL SILT FENCING AND SILT FENCE OUTLETS AS SHOWN ON PLANS. VEGETATION CAN BE REMOVED TO INSTALL SILT FENCE AS NEEDED.
- ONCE ALL PERIMETER MEASURES ARE INSTALLED, CONTACT NCDENR LAND QUALITY FOR APPROVAL PRIOR TO COMMENCING FURTHER.
- REMOVE VEGETATION AND INSTALL SEDIMENT BASINS AND DIVERSION DITCHES. SEED AND STABILIZE MEASURES. UPON PERIMETER APPROVAL, COMMENCE TREE REMOVAL AND OTHER DEMOLITION / REMOVAL ITEMS AND ROUGH GRADING ACTIVITIES. CONTRACTOR SHALL PROPERLY DISPOSE OF MATERIAL AS APPROPRIATE.
- BEGIN INSTALLATION OF STORM DRAINAGE SYSTEM AND UTILITIES. UNTIL BOXES ARE BUILT AND INLET DEVICES INSTALLED, INSTALL AND MAINTAIN STORM DRAIN UNDER CONSTRUCTION DEVICE AT END OF DAY OR ONSET OF RAIN. SILT SOCKS MAY BE USED IN AREAS AROUND CURB INLETS.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES REQUIRED TO PROTECT THE EXISTING PAVEMENT FROM DAMAGE AND ALL MATERIAL SHALL BE REMOVED FROM THE ROADWAY AT THE END OF EACH DAY. A WASH STATION MAY BE REQUIRED IF NECESSARY. TO FACILITATE CLEAN UP, A LAYER OF SAND, FINES OR SCREENINGS WILL BE PLACED ON IMPERVIOUS SURFACES BEFORE DEPOSITION OF ANY EXCAVATED MATERIAL.
- ANY DEWATERING IS TO BE DONE THROUGH A SILT BAG WITH A FLOATING INTAKE THAT IS CONSTANTLY MONITORED WHILE IN USE.
- CONTRACTOR SHALL INSPECT THE SITE AND UPDATE THE LOG BOOK AFTER SIGNIFICANT RAINFALL (GREATER THAN 1/2" RAIN).
- CONTRACTOR IS RESPONSIBLE FOR CORRECTING AND REPAIRING ANY IMPROPERLY INSTALLED OR DAMAGED EROSION CONTROL DEVICE IMMEDIATELY.
- ALL SEDIMENT CONTROL DEVICES MUST BE MAINTAINED UNTIL ALL UPGRADE DRAINAGE AREAS HAVE BEEN STABILIZED WITH THE ESTABLISHMENT OF PERMANENT VEGETATION. REMOVE ALL TEMPORARY MEASURES ONLY AFTER AN INSPECTION FROM NCDENR, SMOOTH AREAS TO BLEND WITH ADJOINING AREAS AND STABILIZE PROPERLY.
- PROVIDE TEMPORARY SEEDING AND STABILIZE ALL AREAS TO BE VEGETATED. STABILIZE SLOPES AND GRADED AREAS AS SHOWN ON STABILIZATION TIMEFRAMES TABLE. PERMANENT GROUND COVER FOR ALL DISTURBED AREAS SHALL BE ESTABLISHED WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER). HOWEVER, NPDES GROUND COVER REQUIREMENTS TAKE PRECEDENCE.
- WHEN THE PROJECT IS COMPLETE, THE PERMITTEE SHALL CONTACT DEMLR TO CLOSE OUT THE E&SC PLAN. AFTER DEMLR INFORMS THE PERMITTEE OF THE PROJECT CLOSE OUT, VIA INSPECTION REPORT, THE PERMITTEE SHALL VISIT [DEQ.NC.GOV/NCEQ](http://deq.nc.gov/nceq) TO SUBMIT AN ELECTRONIC NOTICE OF TERMINATION (E-NOI). A \$100 ANNUAL GENERAL PERMIT FEE WILL BE CHARGED UNTIL THE E-NOI HAS BEEN FILLED OUT.

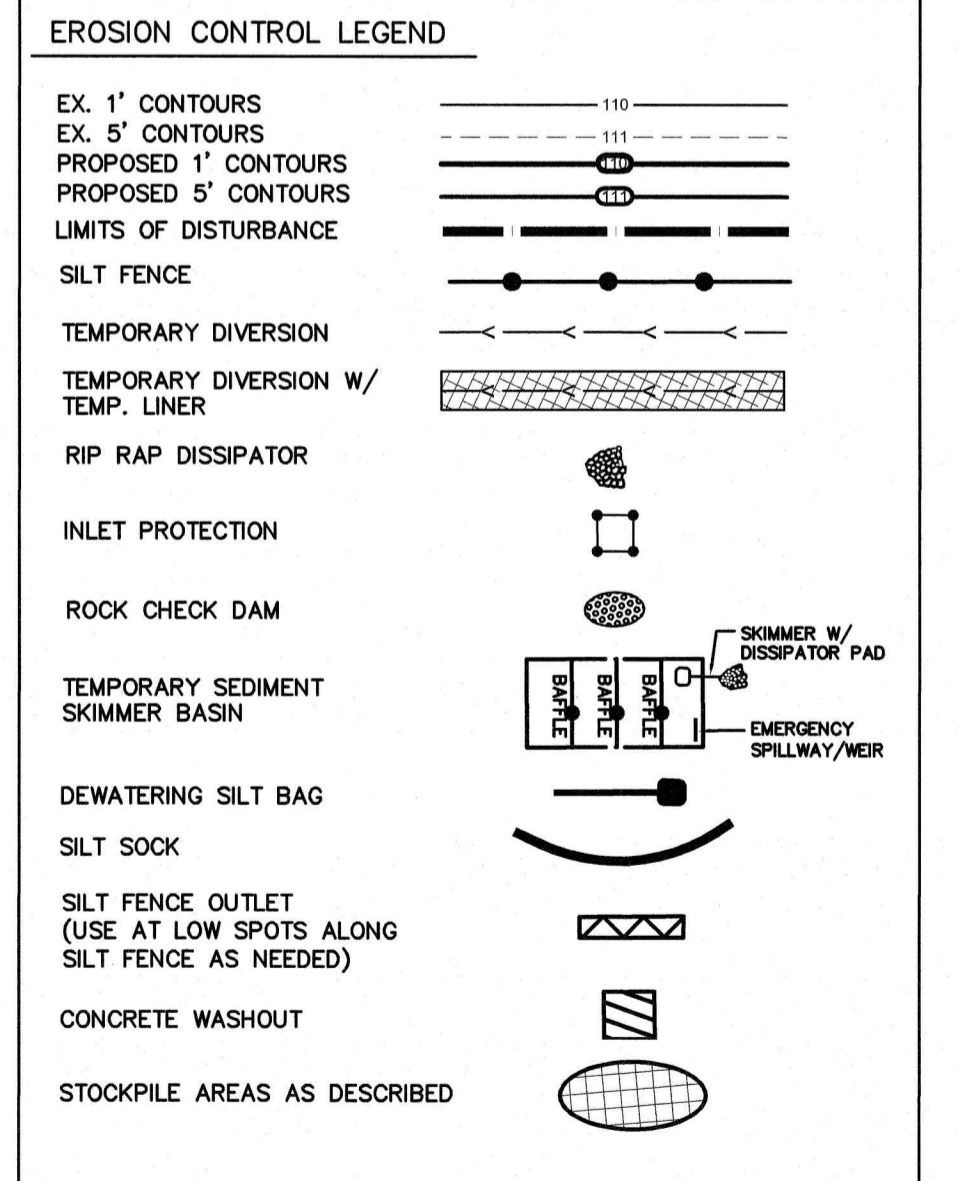
**NEW NCG01 GUIDELINES:**

CONSTRUCTION ACTIVITIES THAT HAVE AN E&SC PLAN APPROVED ON OR AFTER APRIL 1, 2019 ARE REQUIRED TO FILL OUT AND SUBMIT AN ELECTRONIC NOTICE OF INTENT (E-NOI) FORM. ALL CONSTRUCTION ACTIVITIES ARE REQUIRED TO FOLLOW THE NEW NCG01 PERMIT REGARDLESS OF WHEN THEY WERE APPROVED.

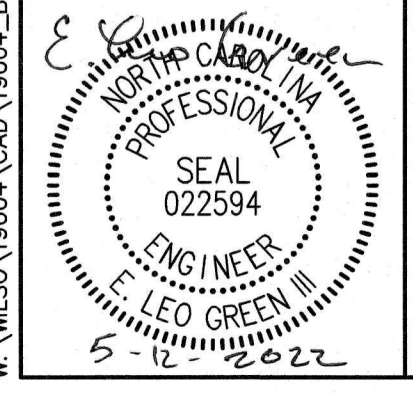
**NC GROUND COVER REQUIREMENTS:**

THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE THAT CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION-CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT EXPOSED WILL, WITHIN 7 OR 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY GROUND COVER, DEVICES OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION. PERMANENT GROUND COVER WILL BE PROVIDED FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR NO MORE THAN 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION.

TOTAL DISTURBED AREA: 3.5 ACRES±



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**MIRACLE FIELD**  
**J. BURT GILLETTE ATHLETIC COMPLEX**

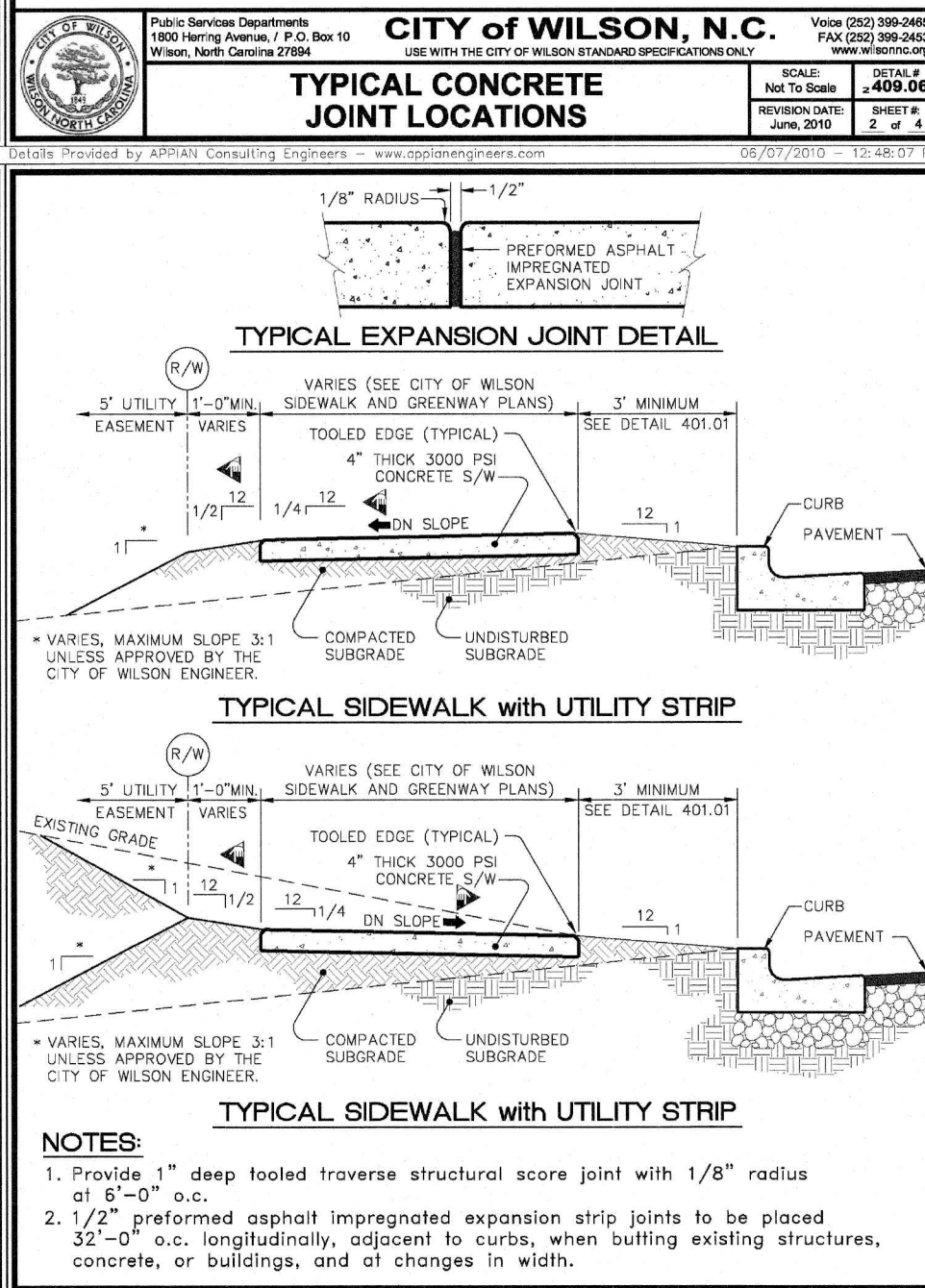
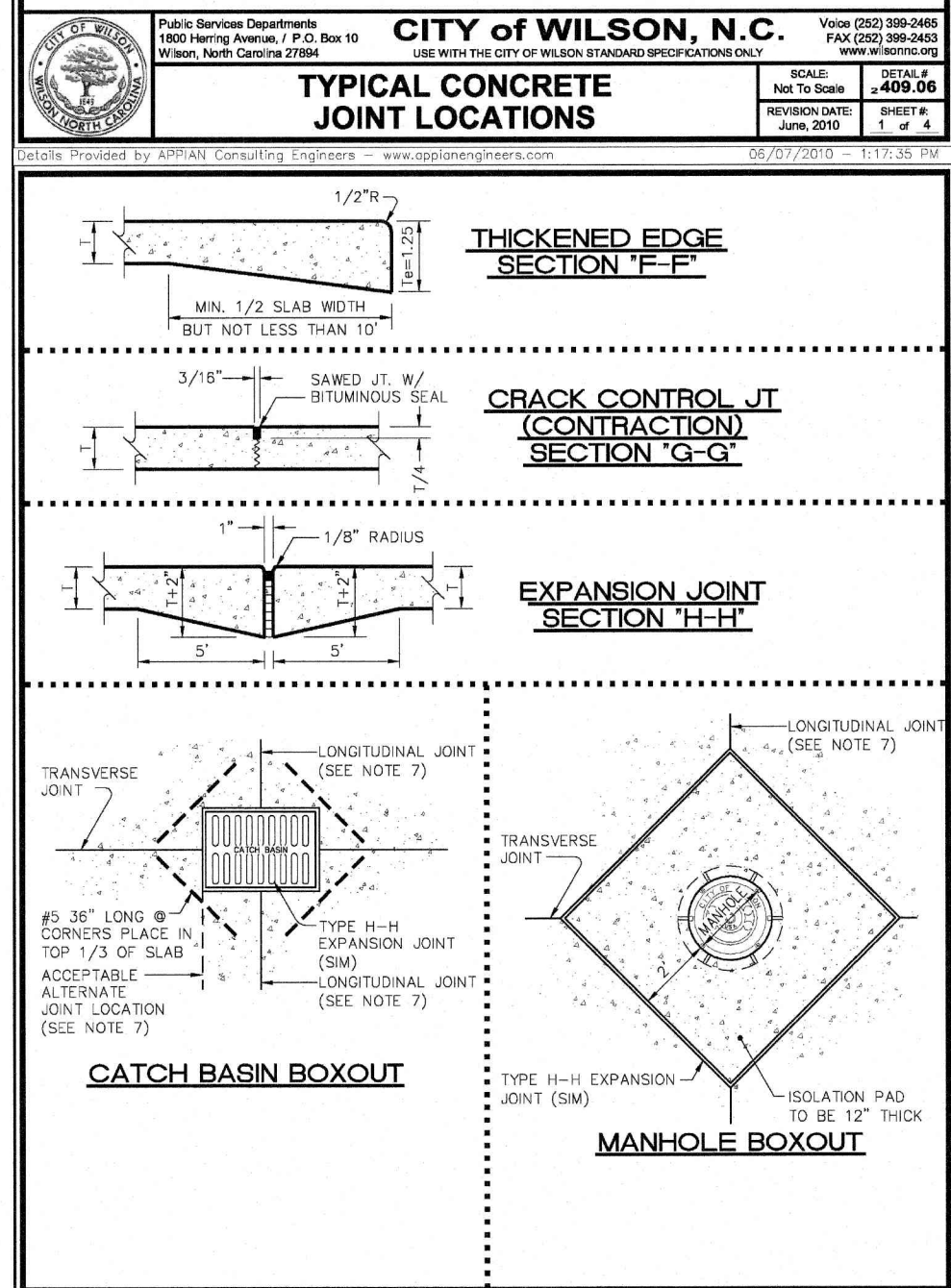
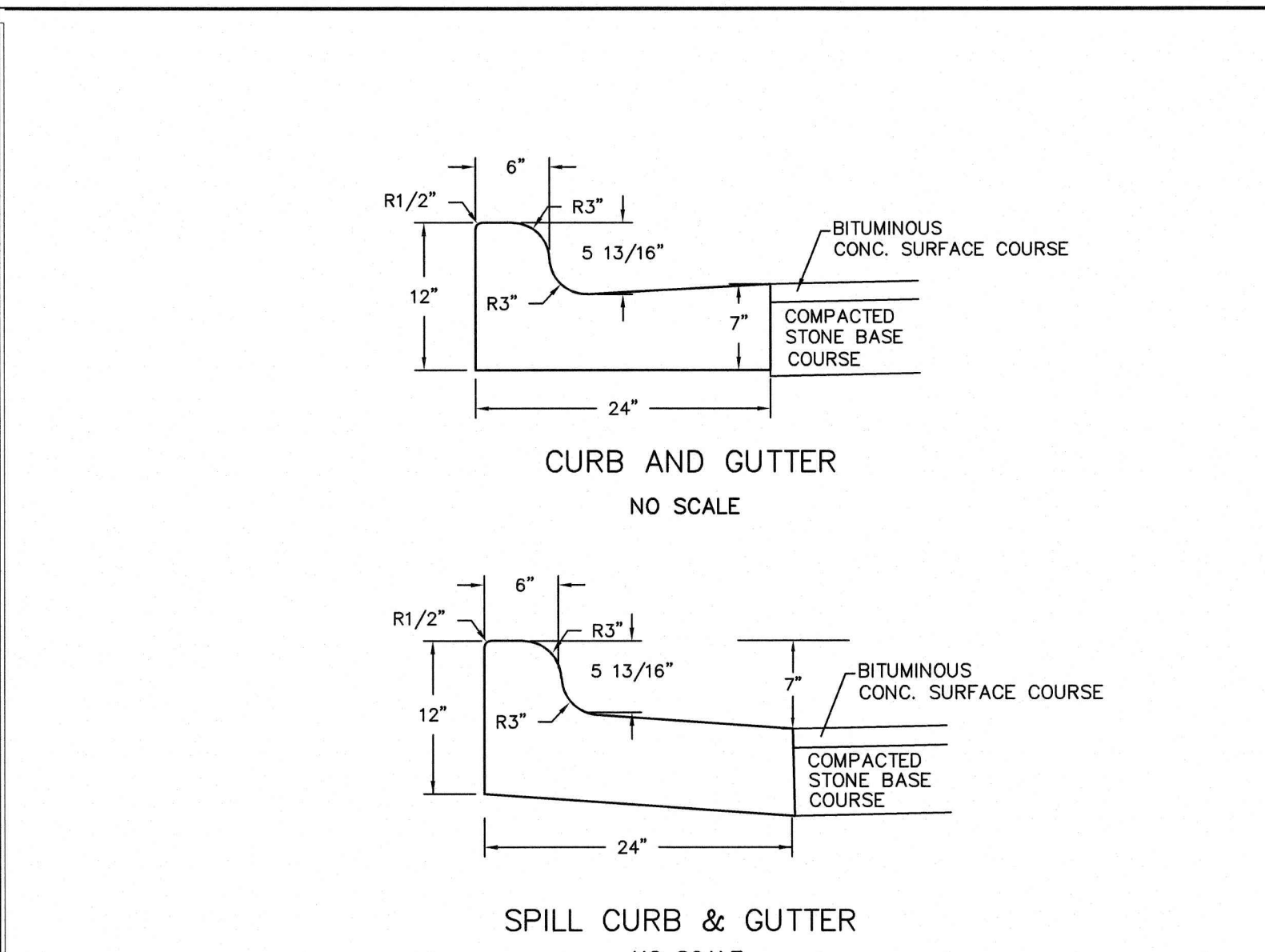
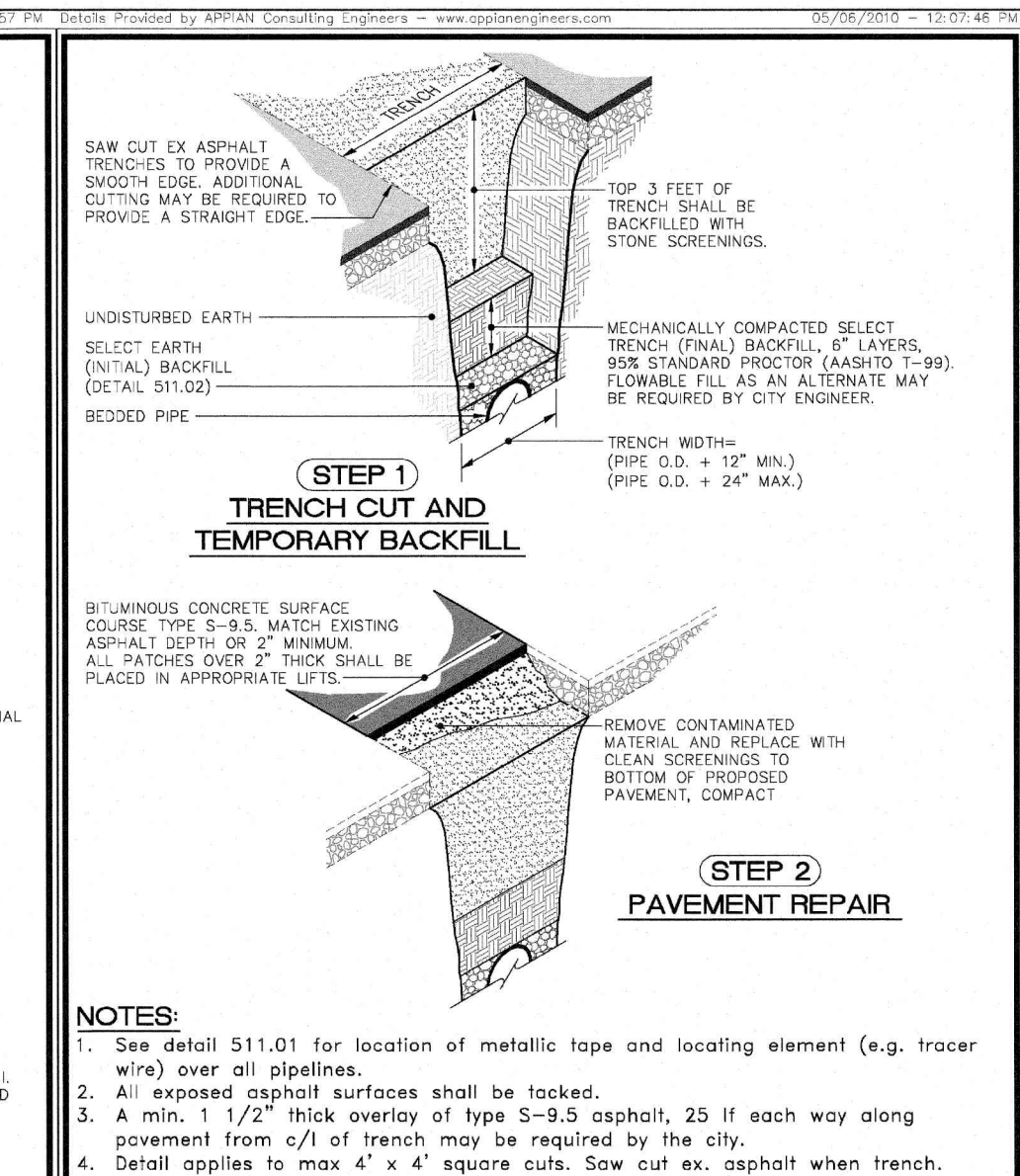
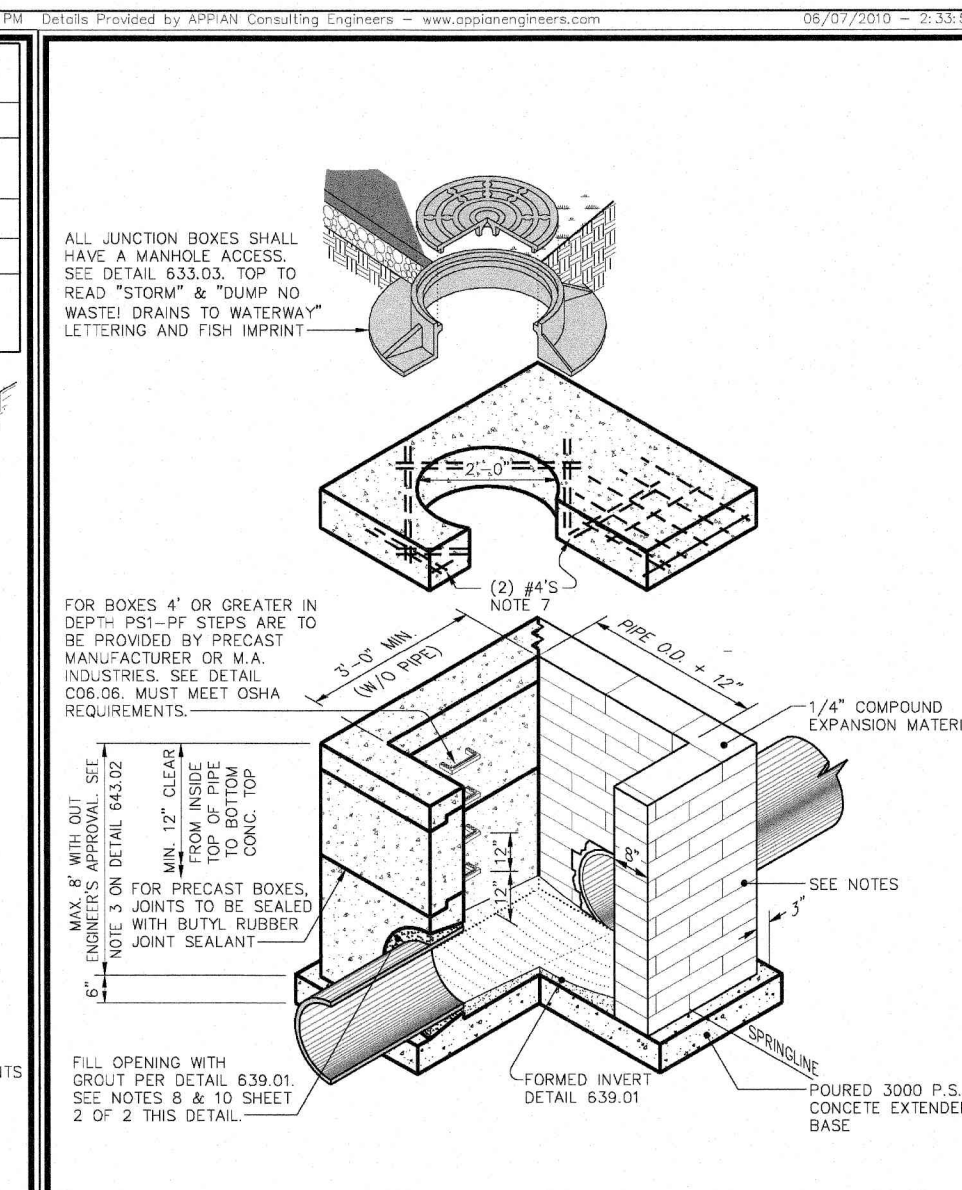
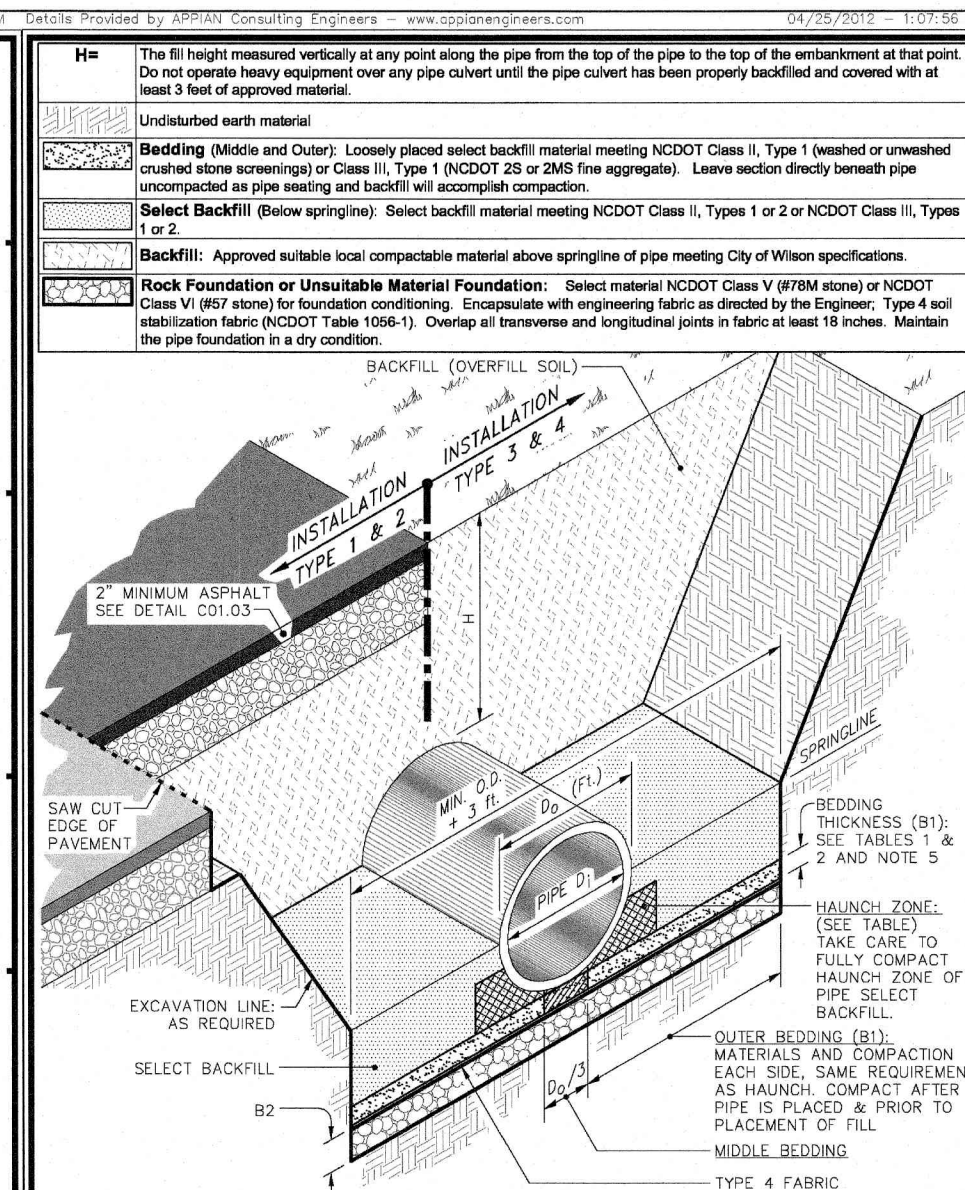
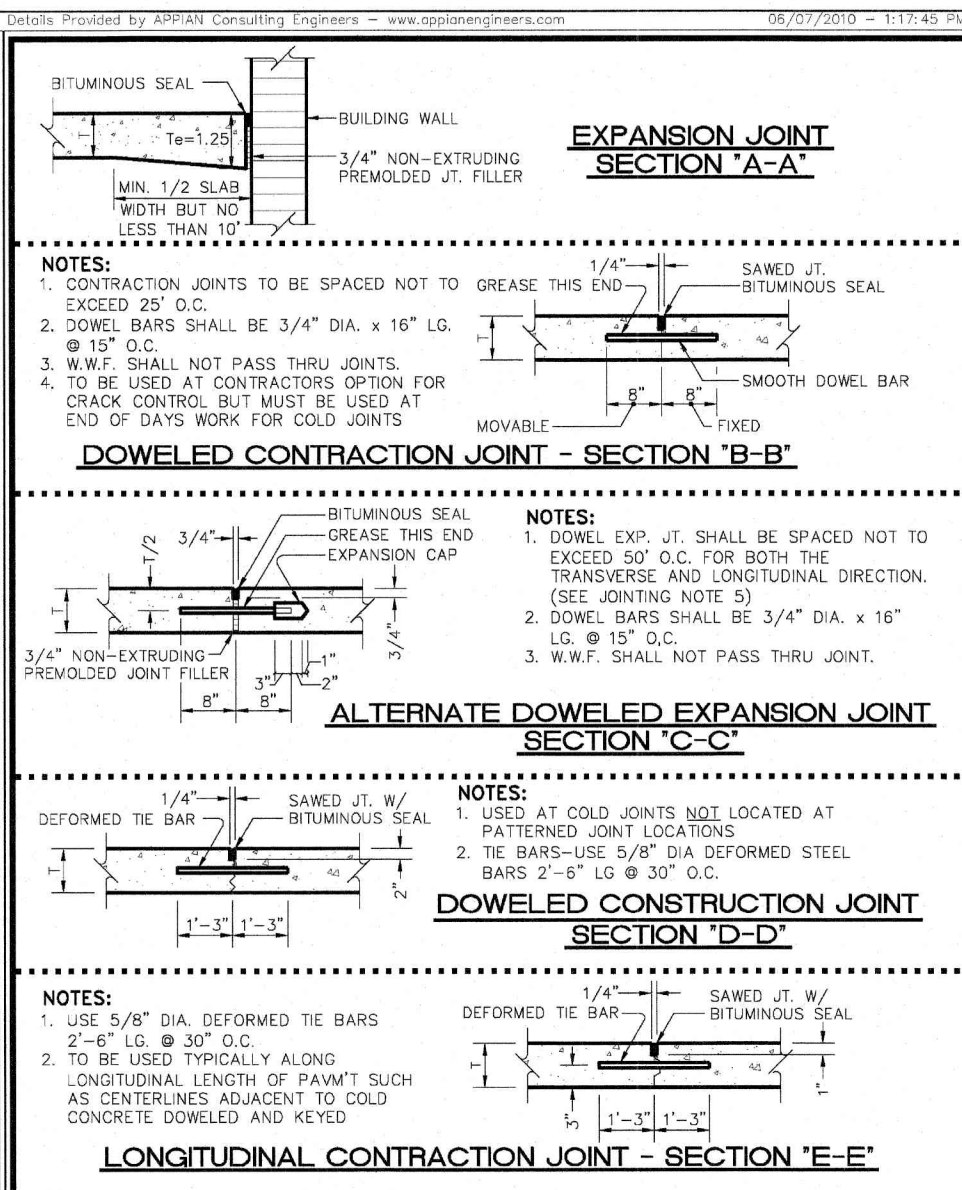
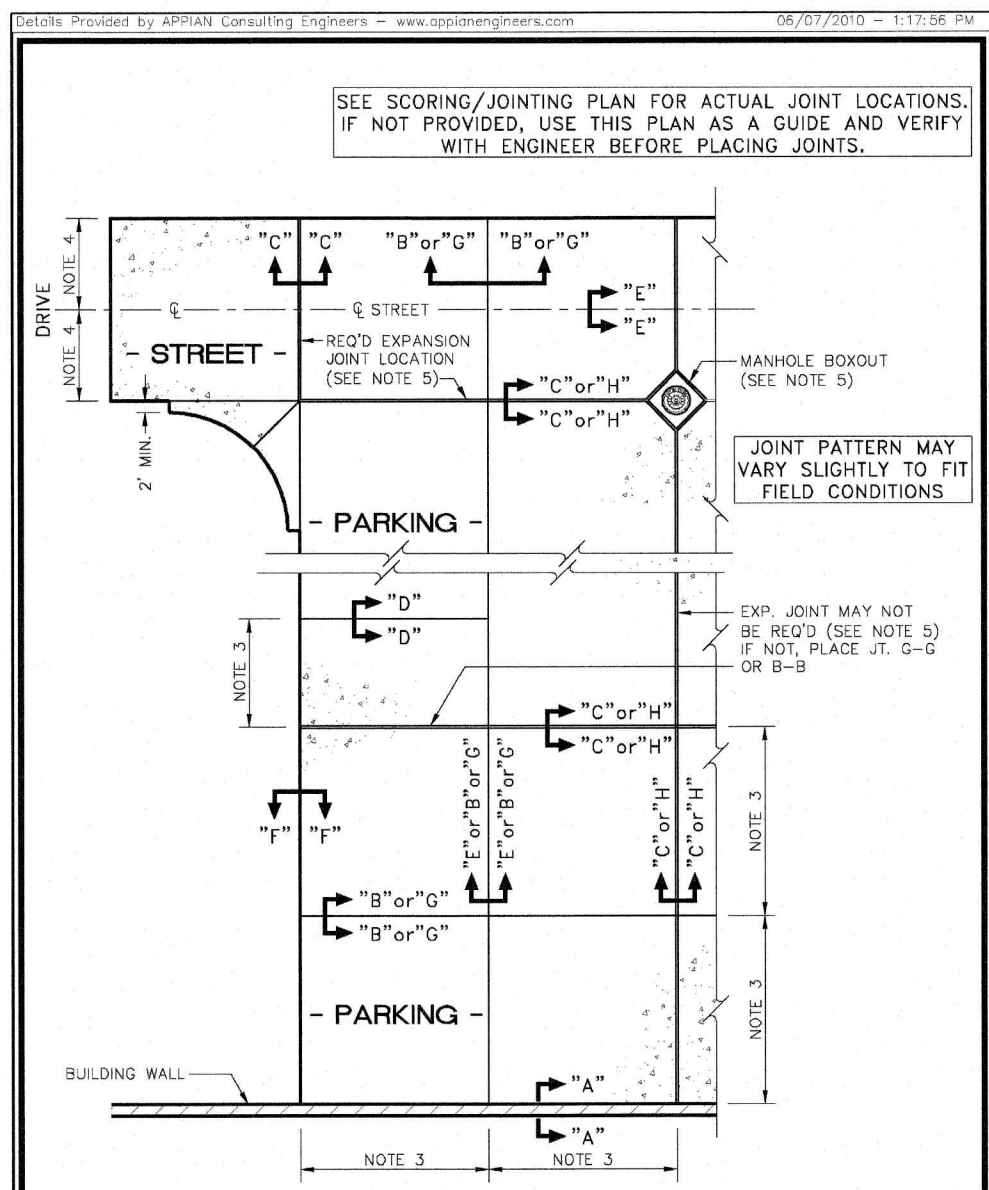
CITY OF WILSON WILSON COUNTY, NORTH CAROLINA

**SEDIMENTATION AND EROSION CONTROL PLAN**

REVISION	DATE	BY	May 11, 2022
EC-NCDENR LAND QUALITY	5/11/22	JM	

CLIENT CODE: WILSO  
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LAST MODIFIED: 12-May-22  
MODIFIED BY: JLM

SHEET NO. 6 OF 13



**Table 1**

**Equivalent USCS<sup>a</sup> and AASHTO Soil Classifications for SDD<sup>b</sup> Soil Designations**

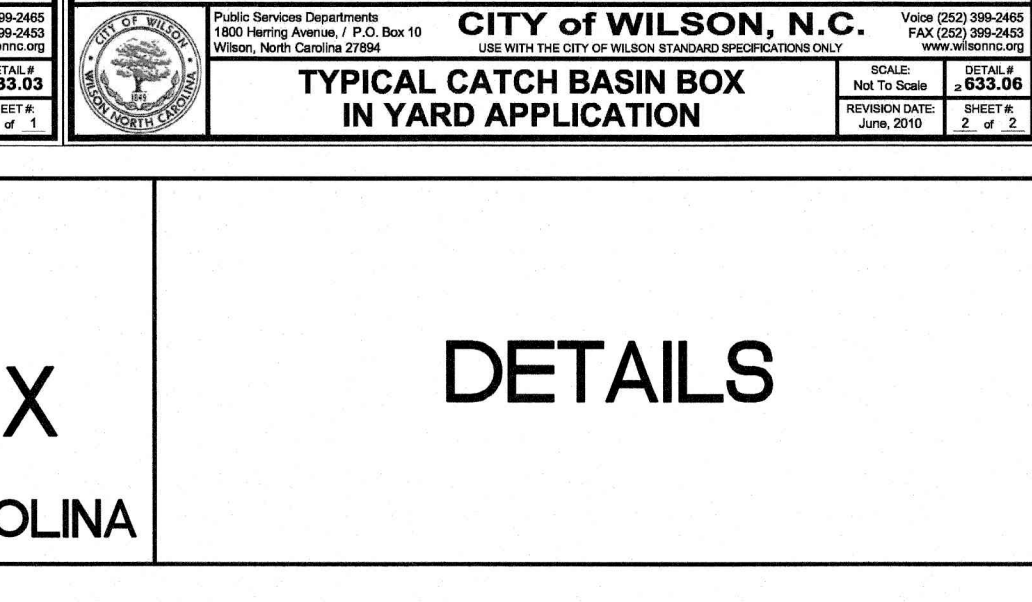
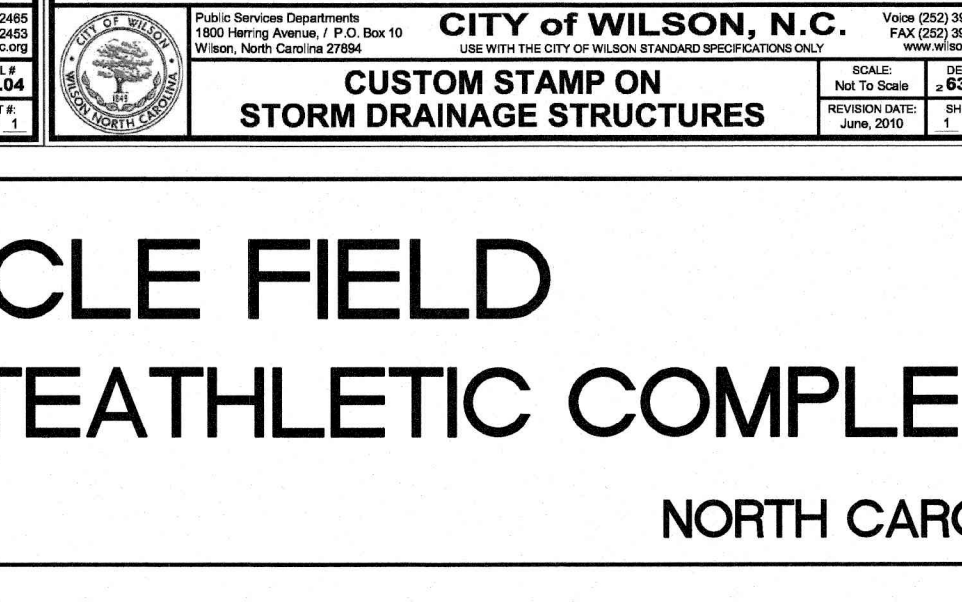
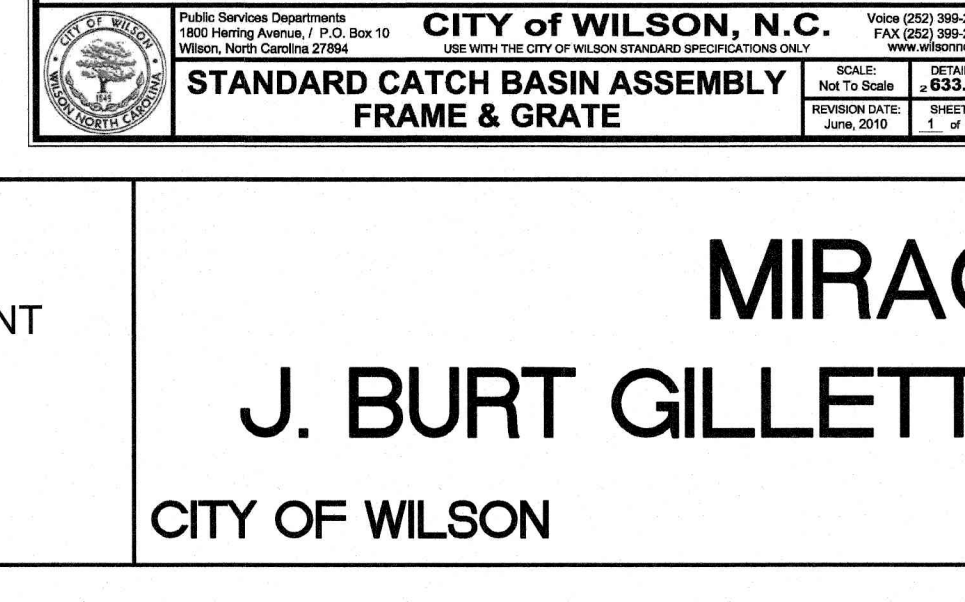
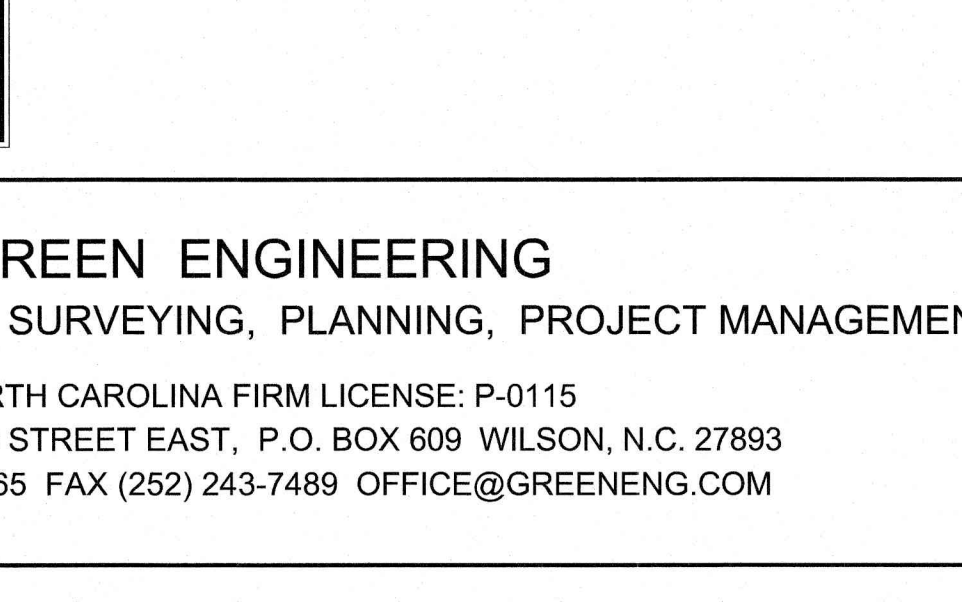
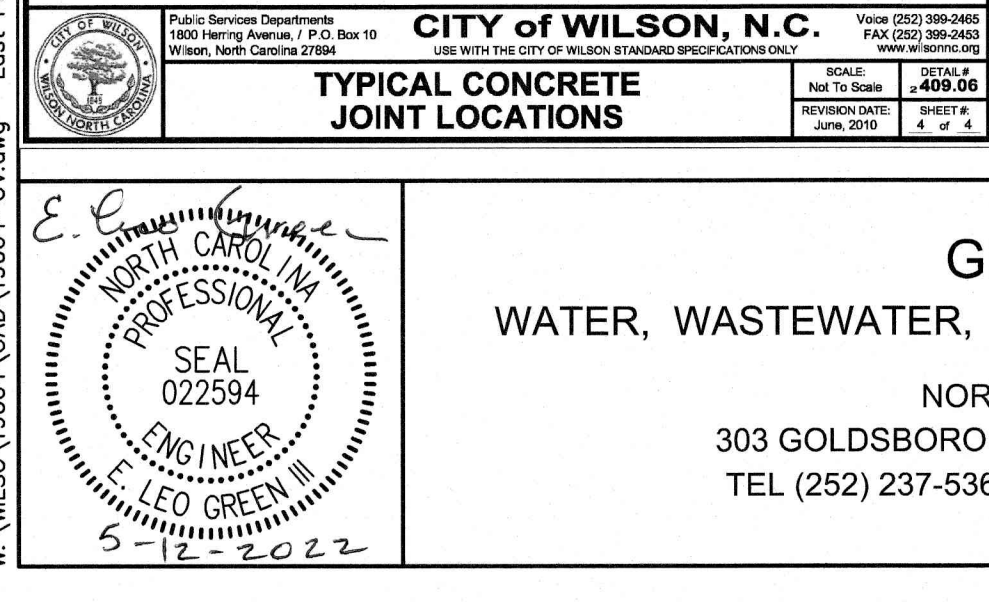
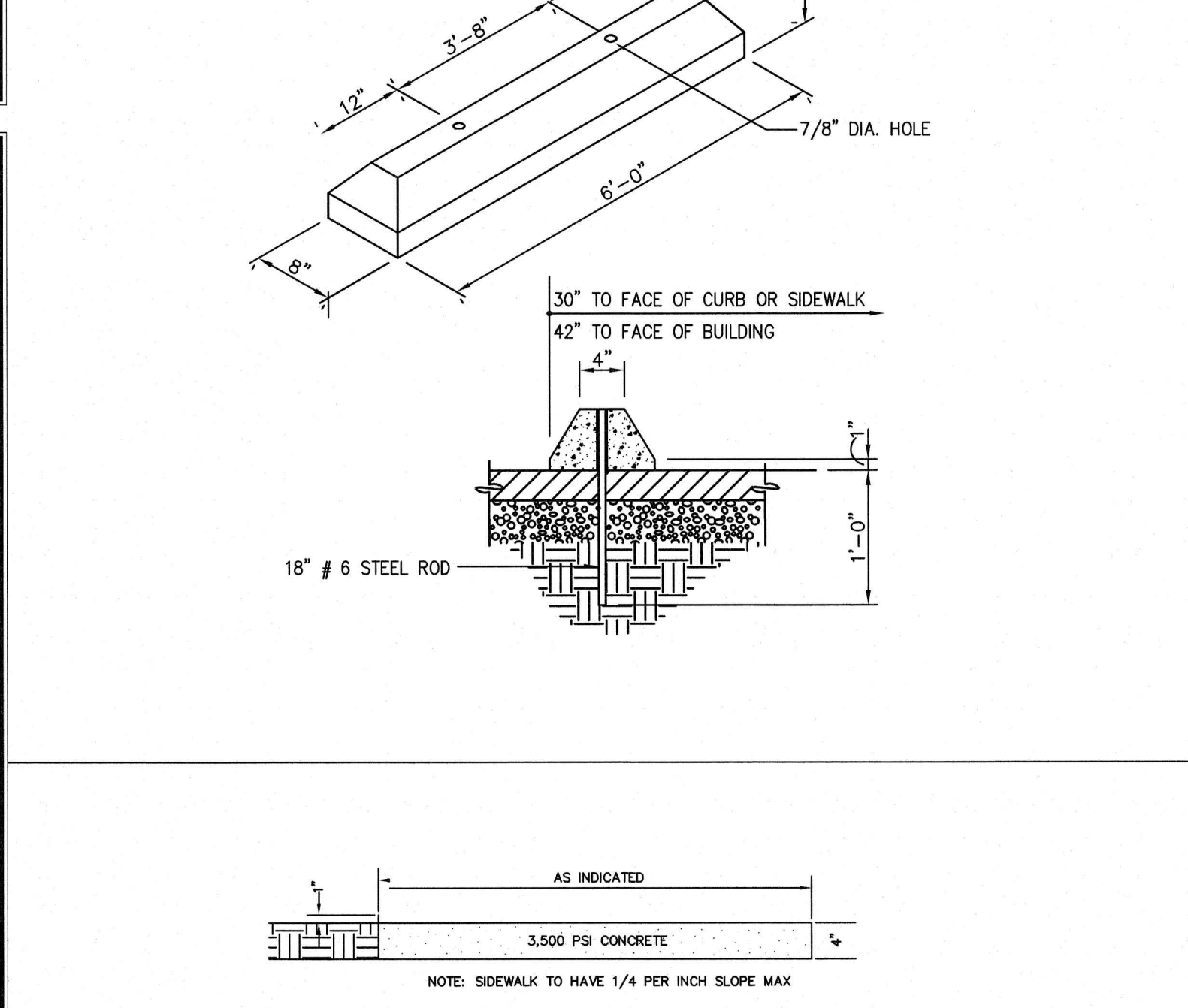
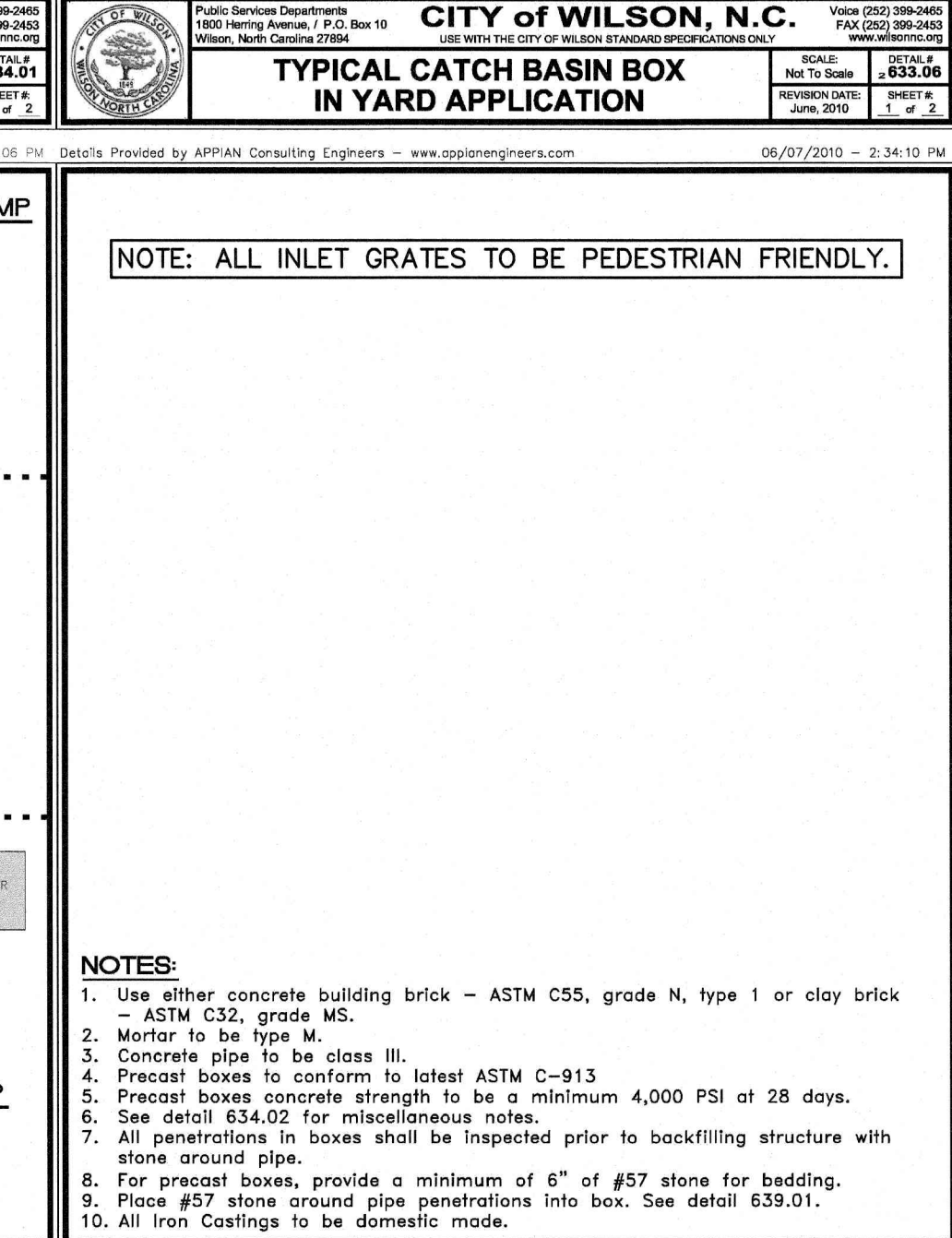
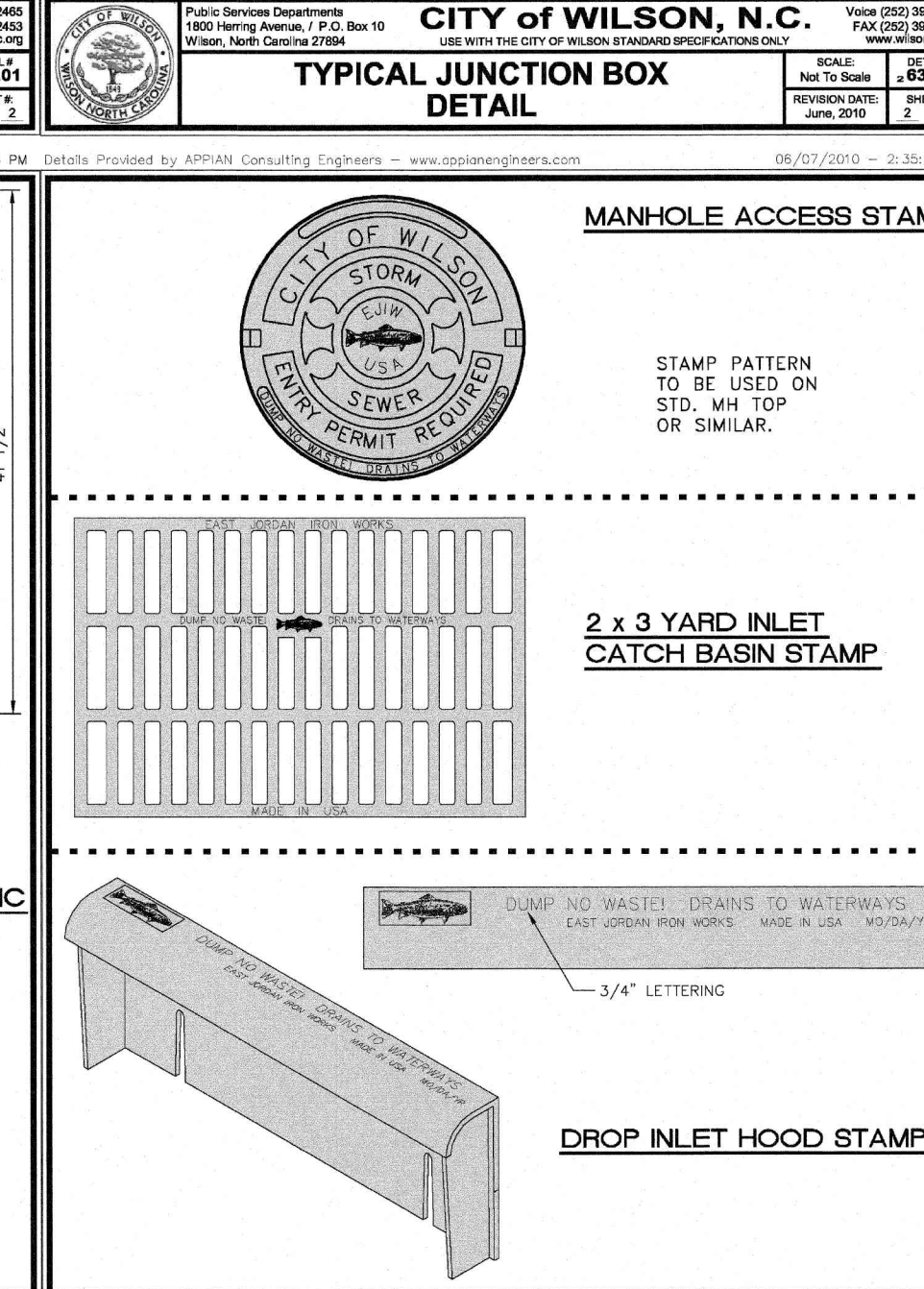
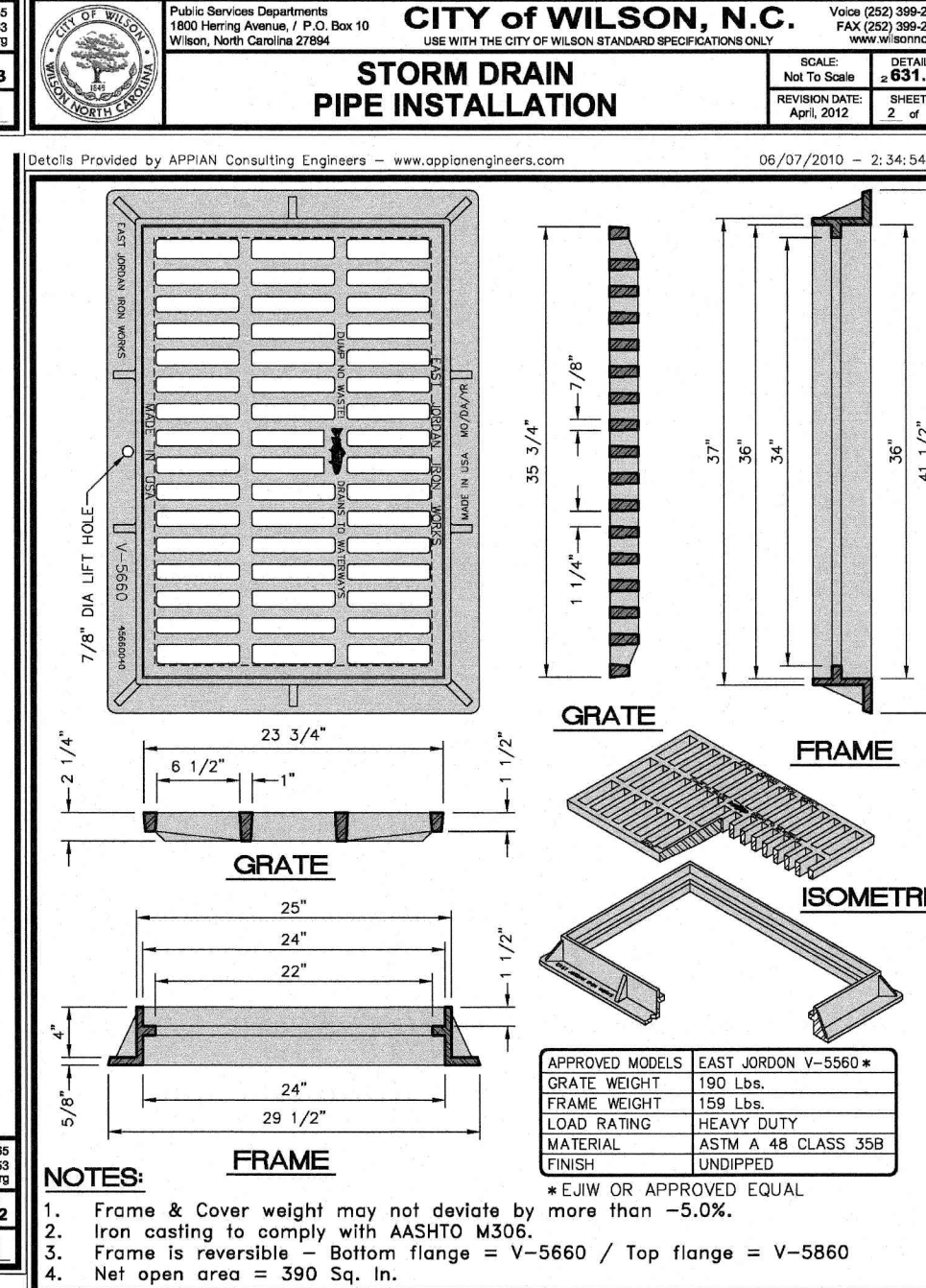
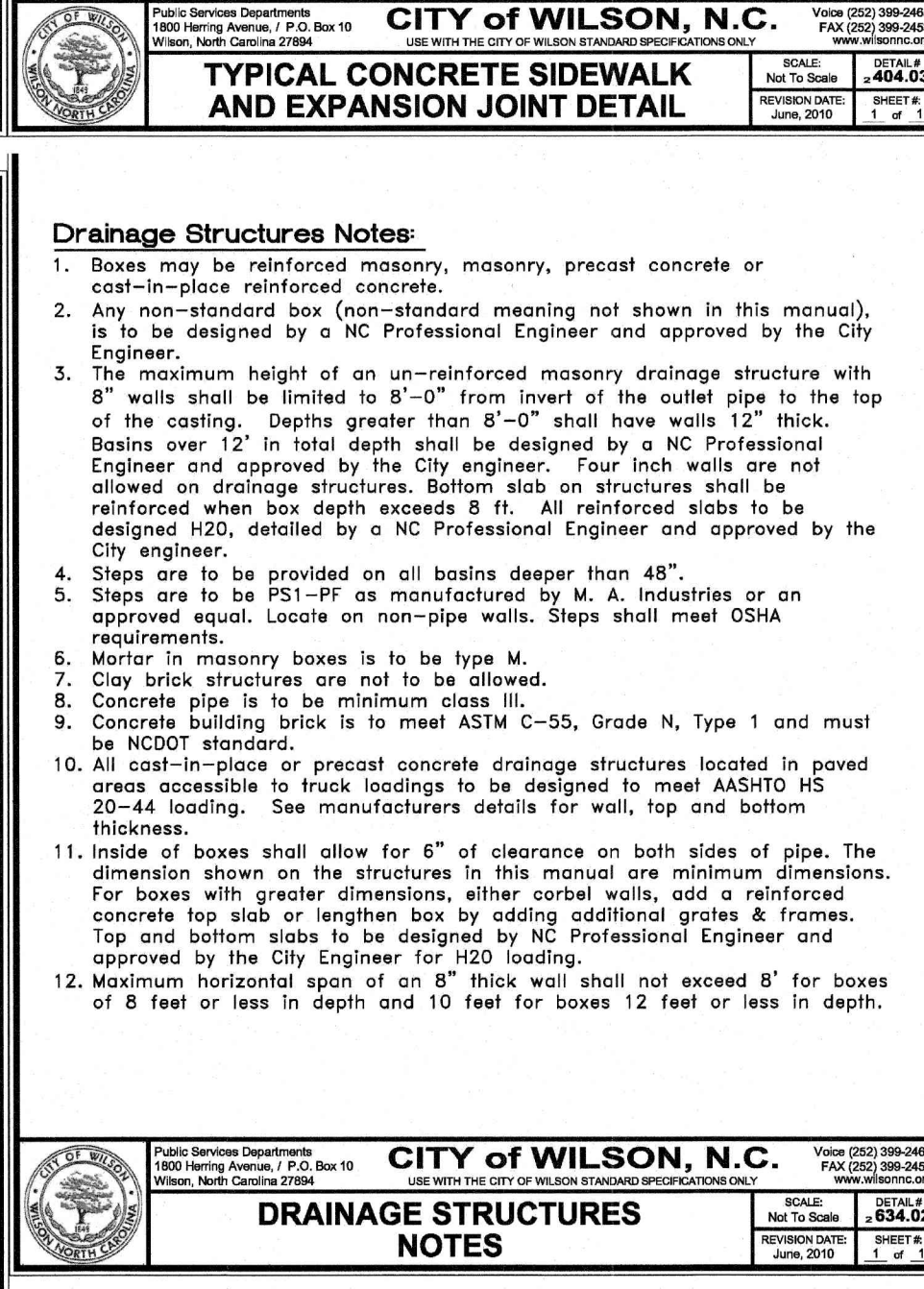
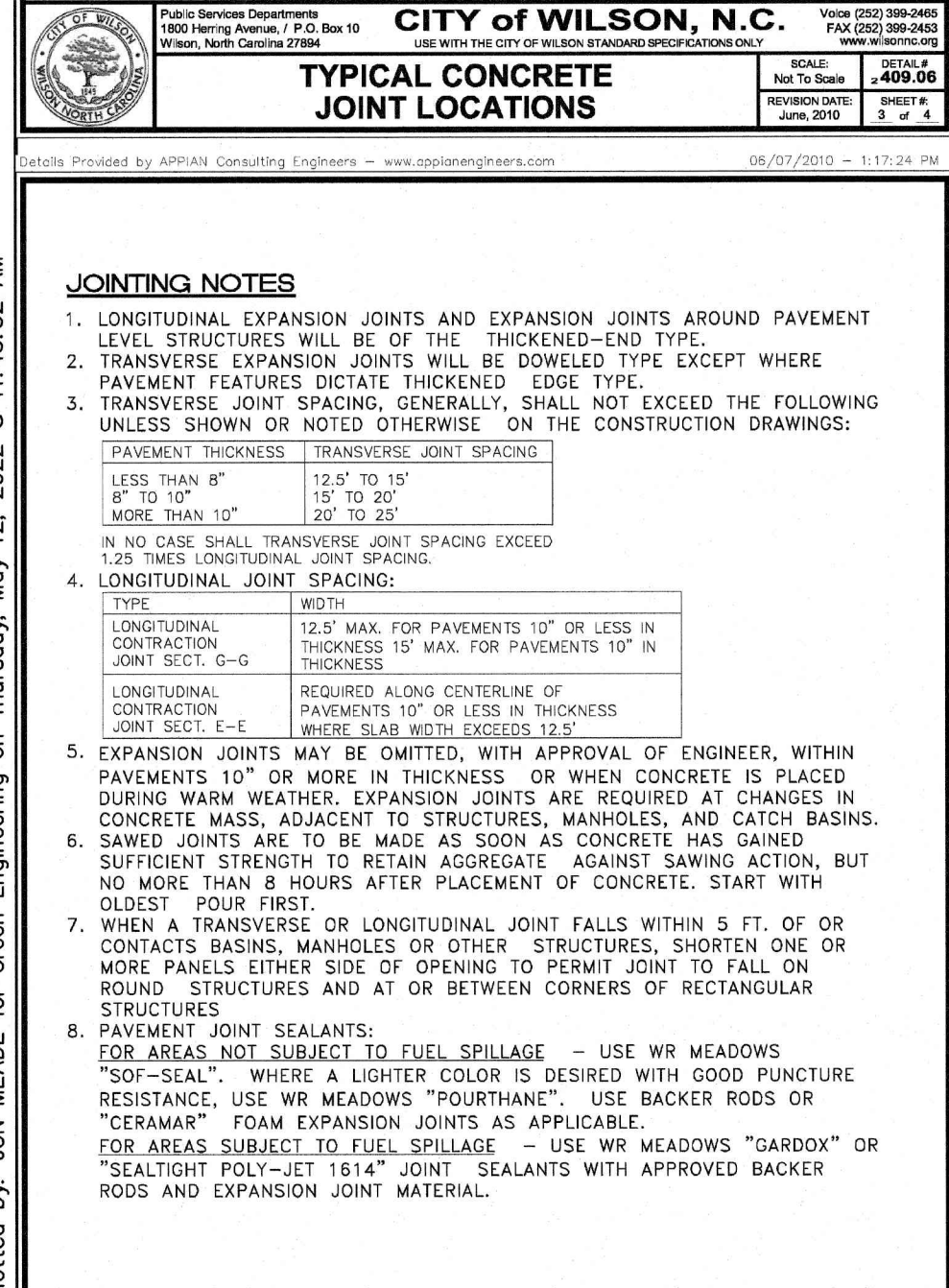
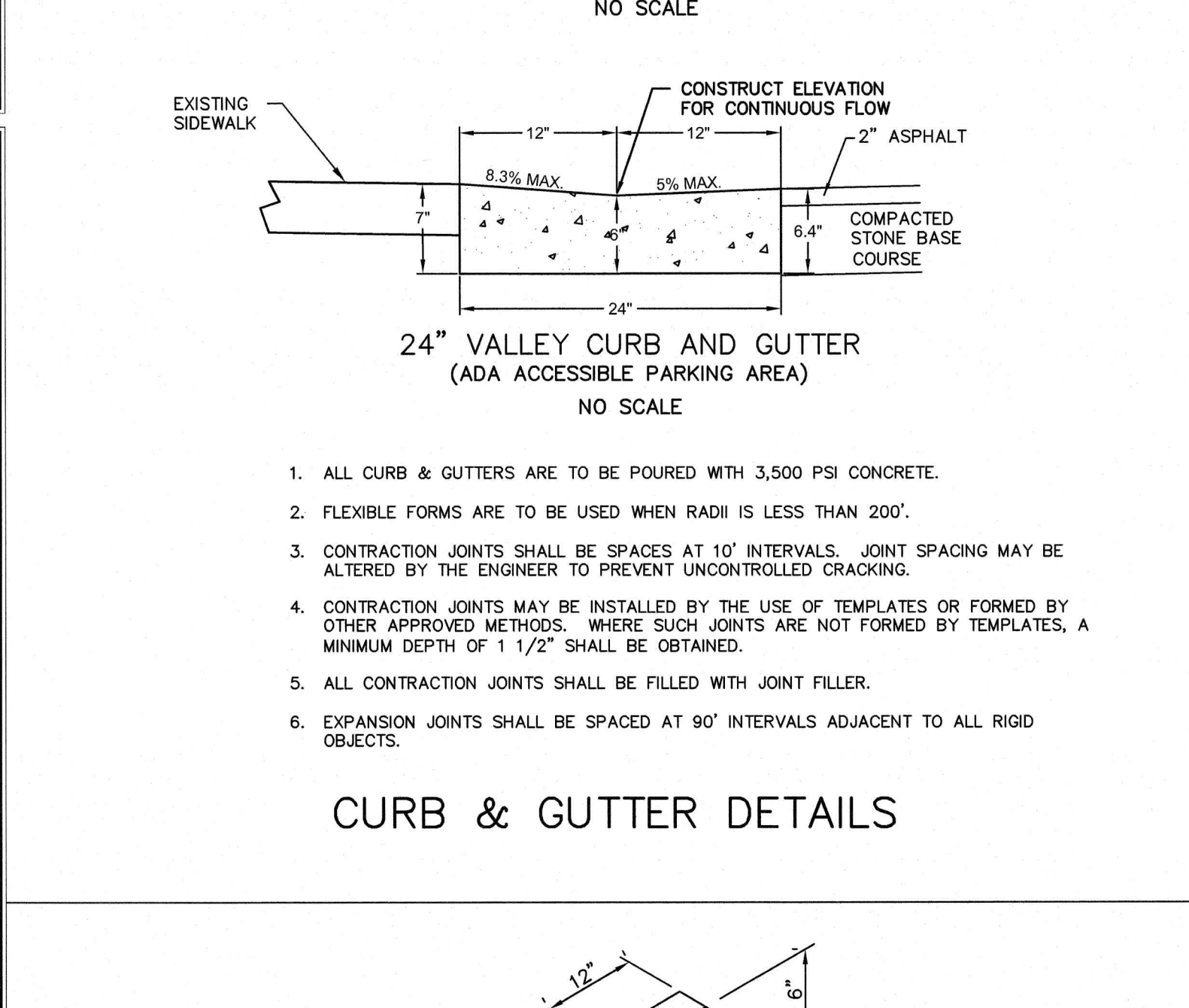
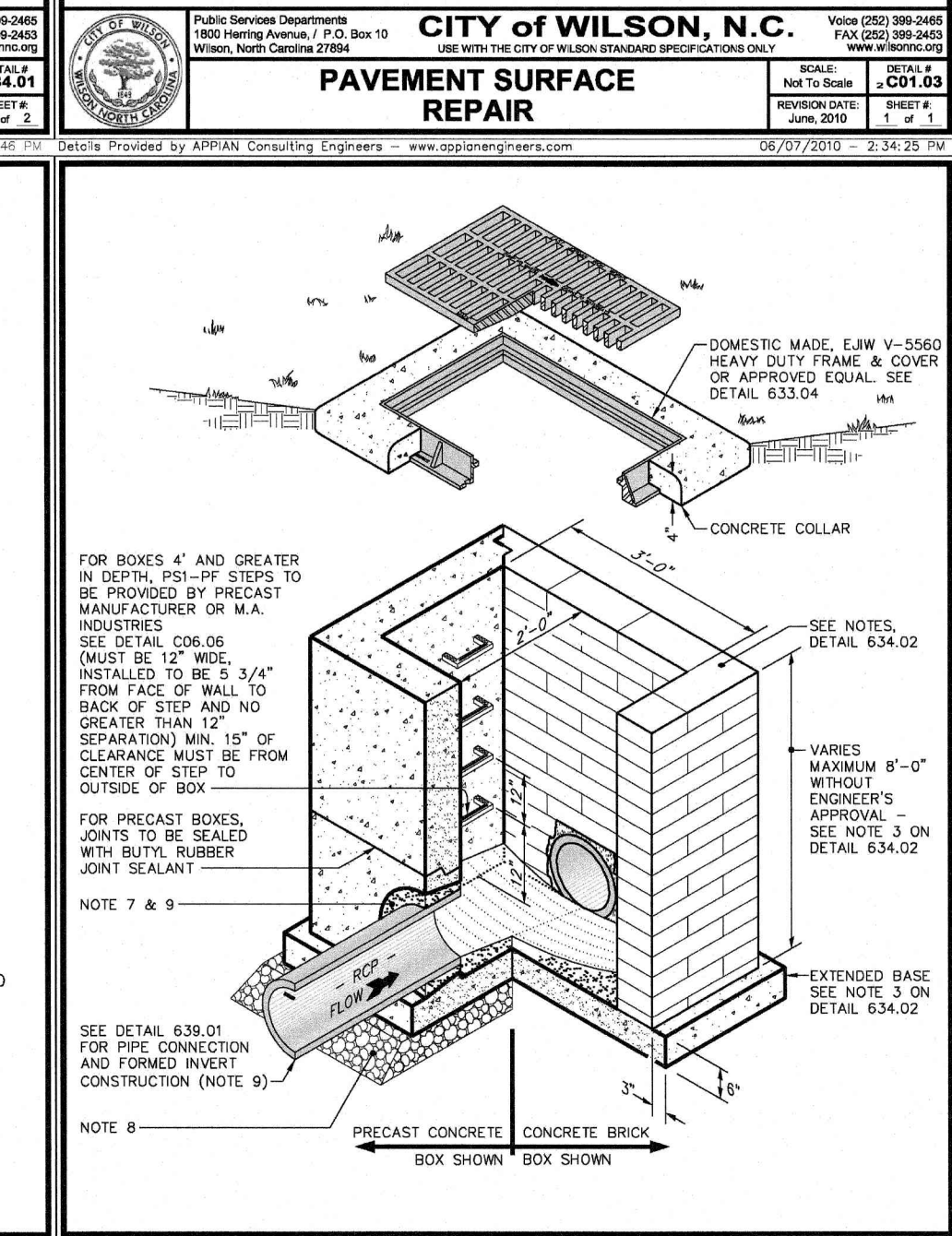
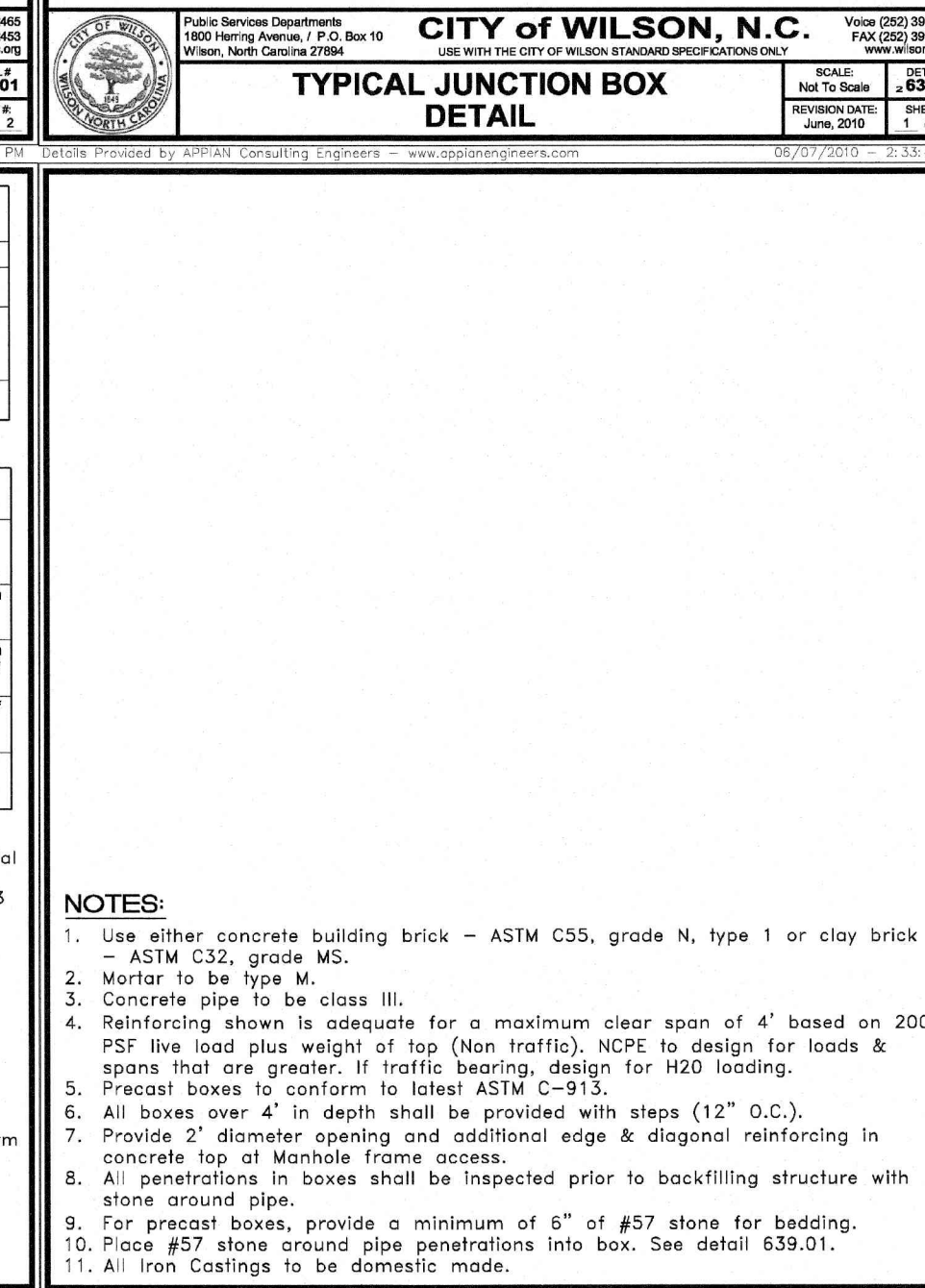
SDD Category	USCS	AASHTO
Gleefully Sand	SW, SP, GW, GP	NCDDOT Class II Type 1 (graded stone screenings), LL < 30, PI < 6
Sandy Silty	GM, SM, A-1, A-2, A-3, A-4, A-5	NCDDOT Class II Type 1 (graded stone screenings) and Class II, Type 2 (AASHTO M44 for passing 8000 sieve)
Silty Clay	CL, ML, GC, SC, AC, AS	NCDDOT Class II, Type 1 (0.075 or 2MS) or Class II, Type 2 (AASHTO M44 for not compacted)

**Table 2**

**Standard Installation Soils and Minimum Compaction Requirements**

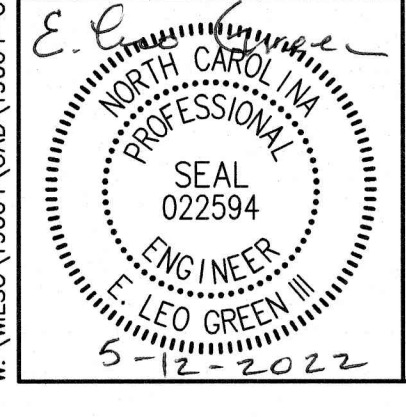
Installation Type	Bedding Thickness	Outer Bedding (B1)	Haunch Zone & Select	Location
Type 1	B1 = 4" (95% Category I)	95% Category I	90% Category I	Panel Areas with 2" or less base
Type 2	B1 = 4" (95% Category I)	95% Category I	90% Category I	Panel Areas with greater than 2" of base
Type 3	B1 = 4" (95% Category I)	95% Category I	90% Category I	In RW outside of Pavement
Type 4	B1 = 4" (95% Category I)	No Compaction required, except if Category I, use 85% Category II	No Compaction required, except if Category I, use 85% Category II	Natural Areas

CITY OF WILSON, N.C. (252) 399-2465



REVISION	DATE	BY	DATE: May 12, 2022
EC-NCDEQ LAND QUALITY	5/11/22	JM	GRAPHIC SCALE
BACKSTOP, CONCRETE SWALE, CURB DETAILS	5/11/22	JM	AS SHOWN

CLIENT CODE: WILSO JOB NUMBER: 19-004 FIELD BOOK: XXXXX CADFILE: 19004-CV.dwg ASCII FILE: LAST MODIFIED: 12-May-22 MODIFIED BY: JM SHEET NO. 7 OF 13



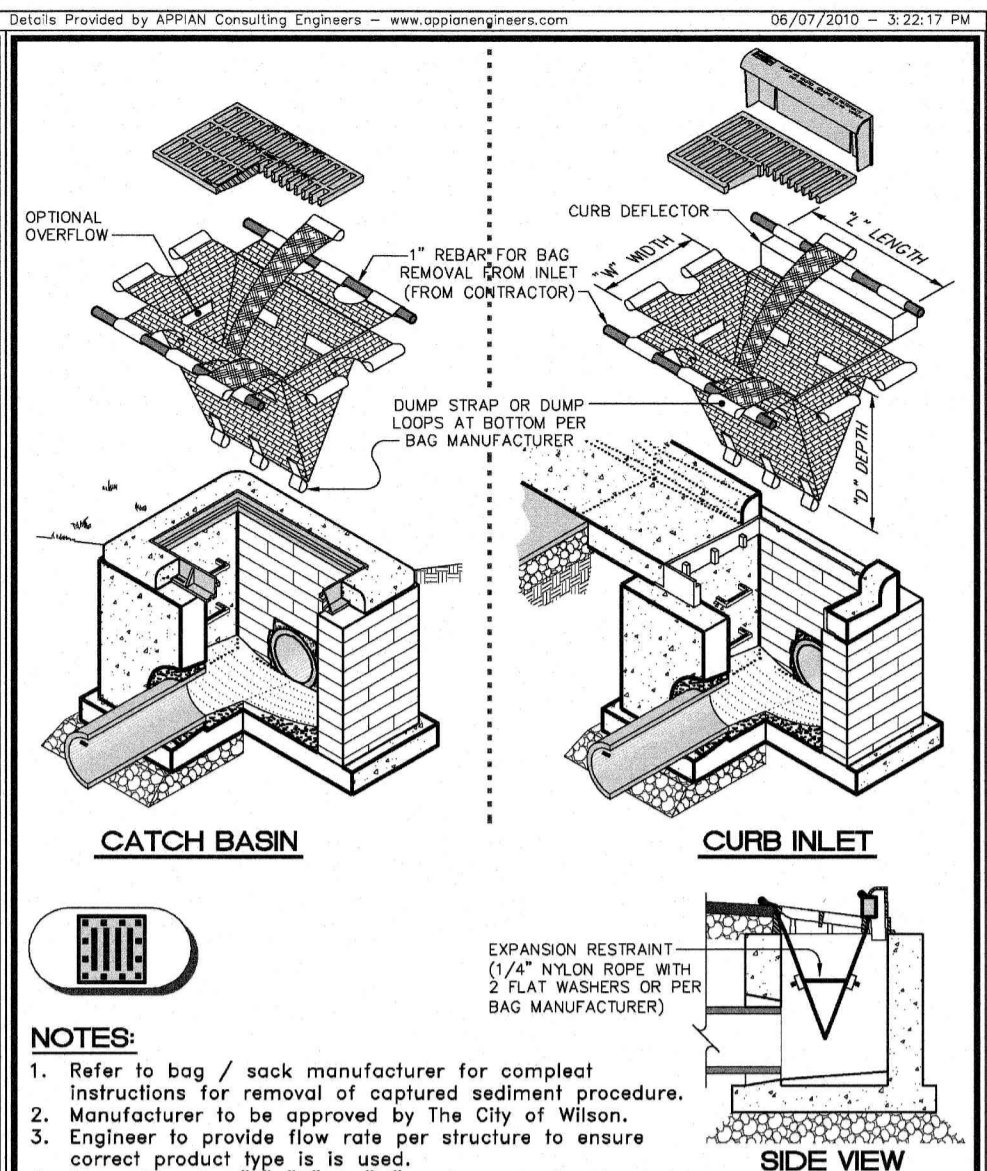
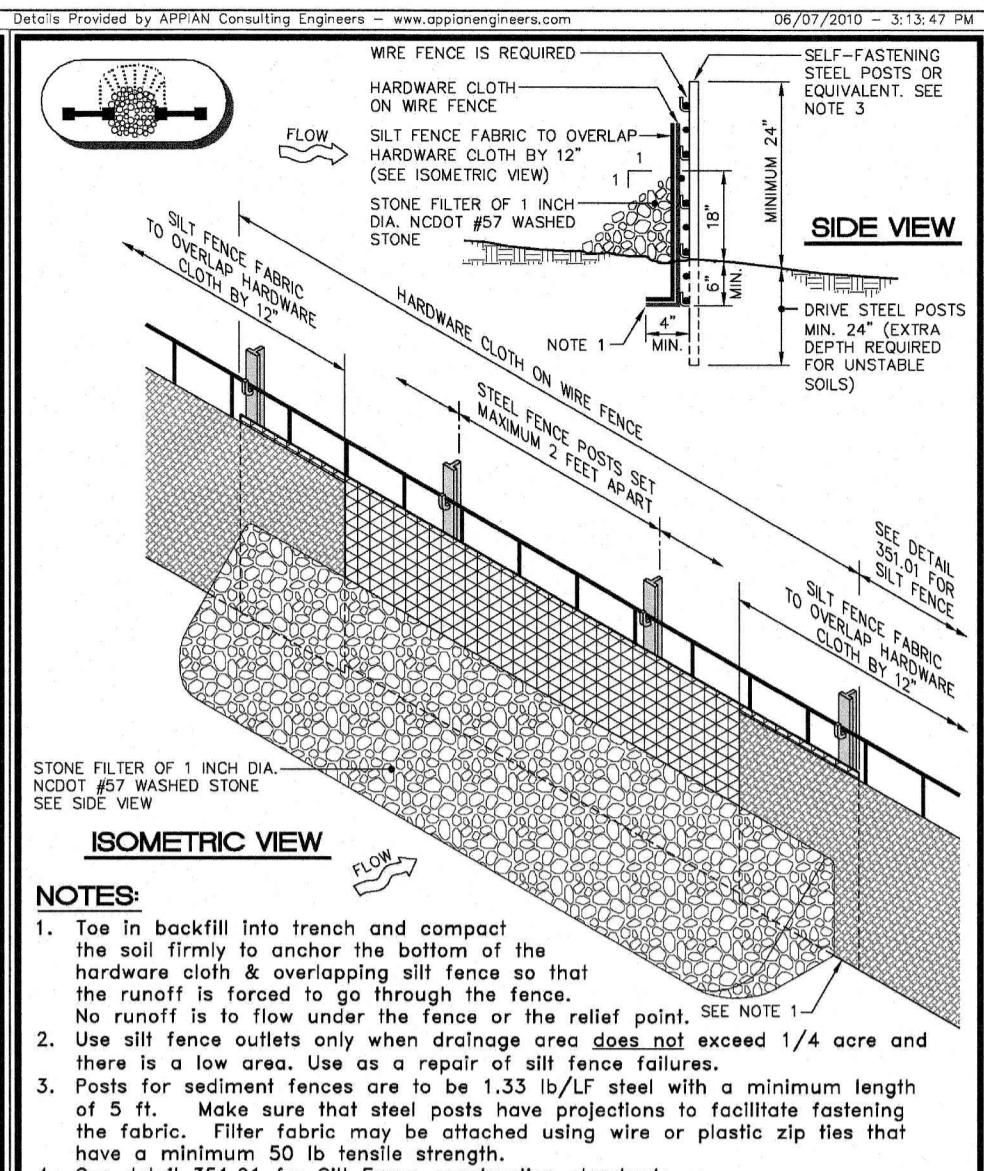
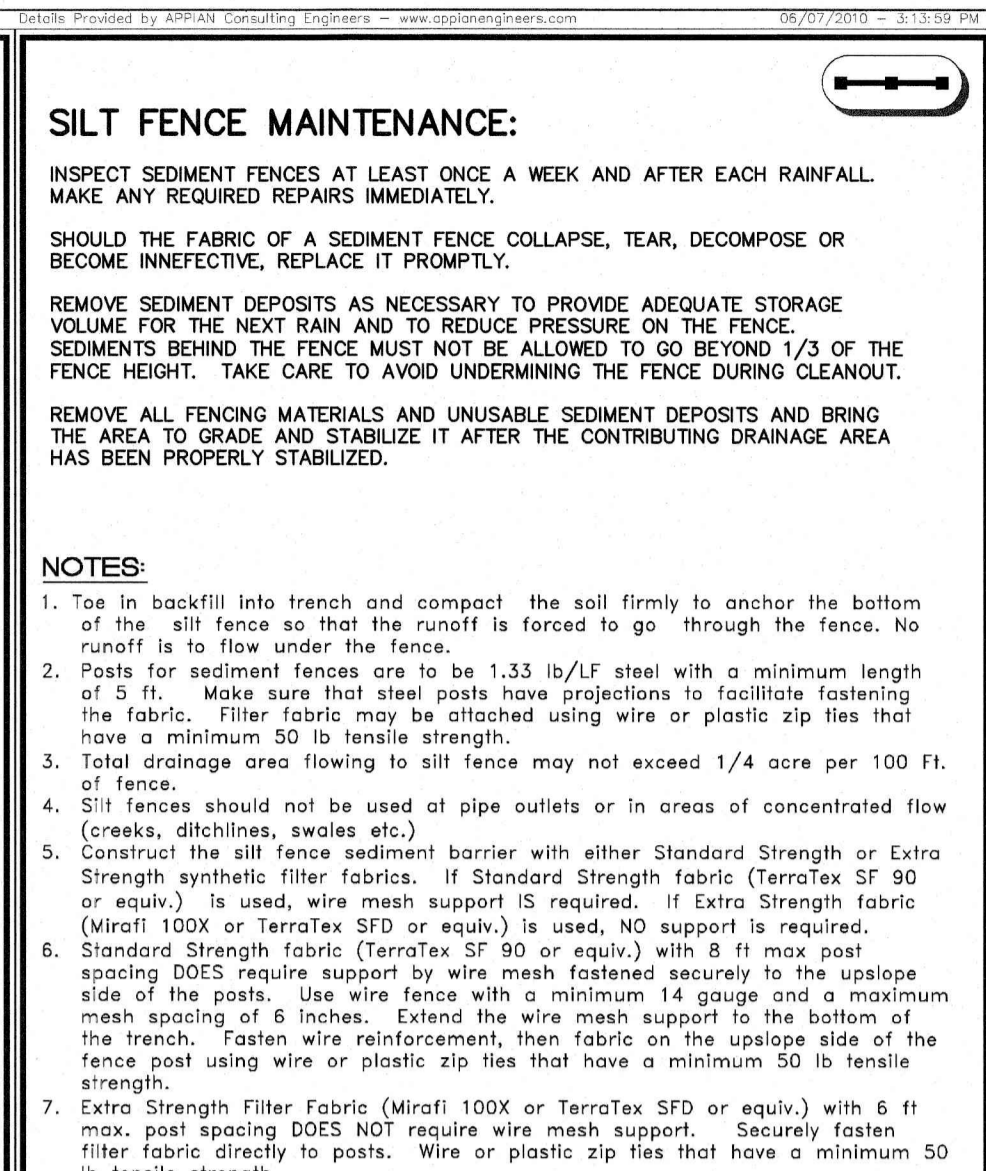
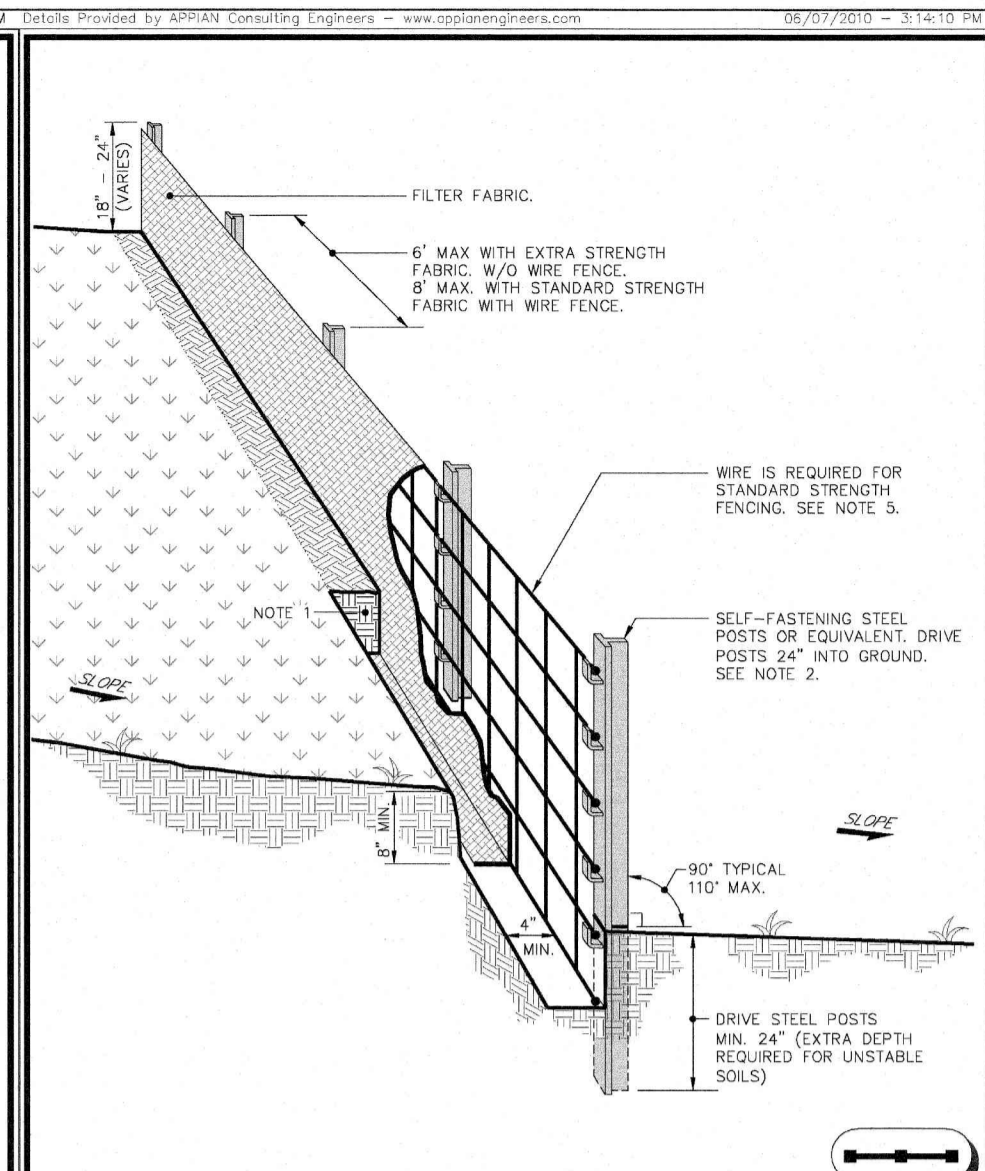
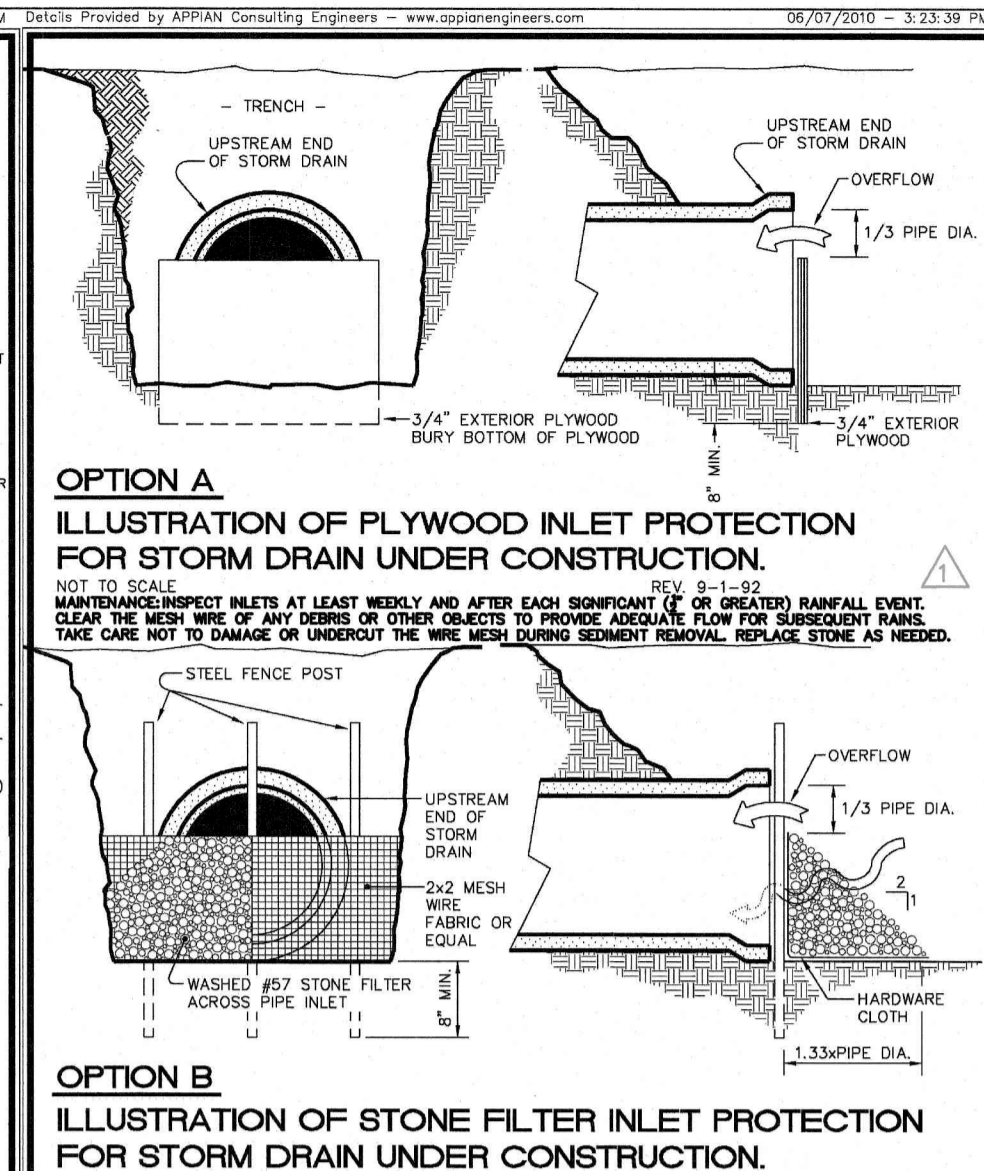
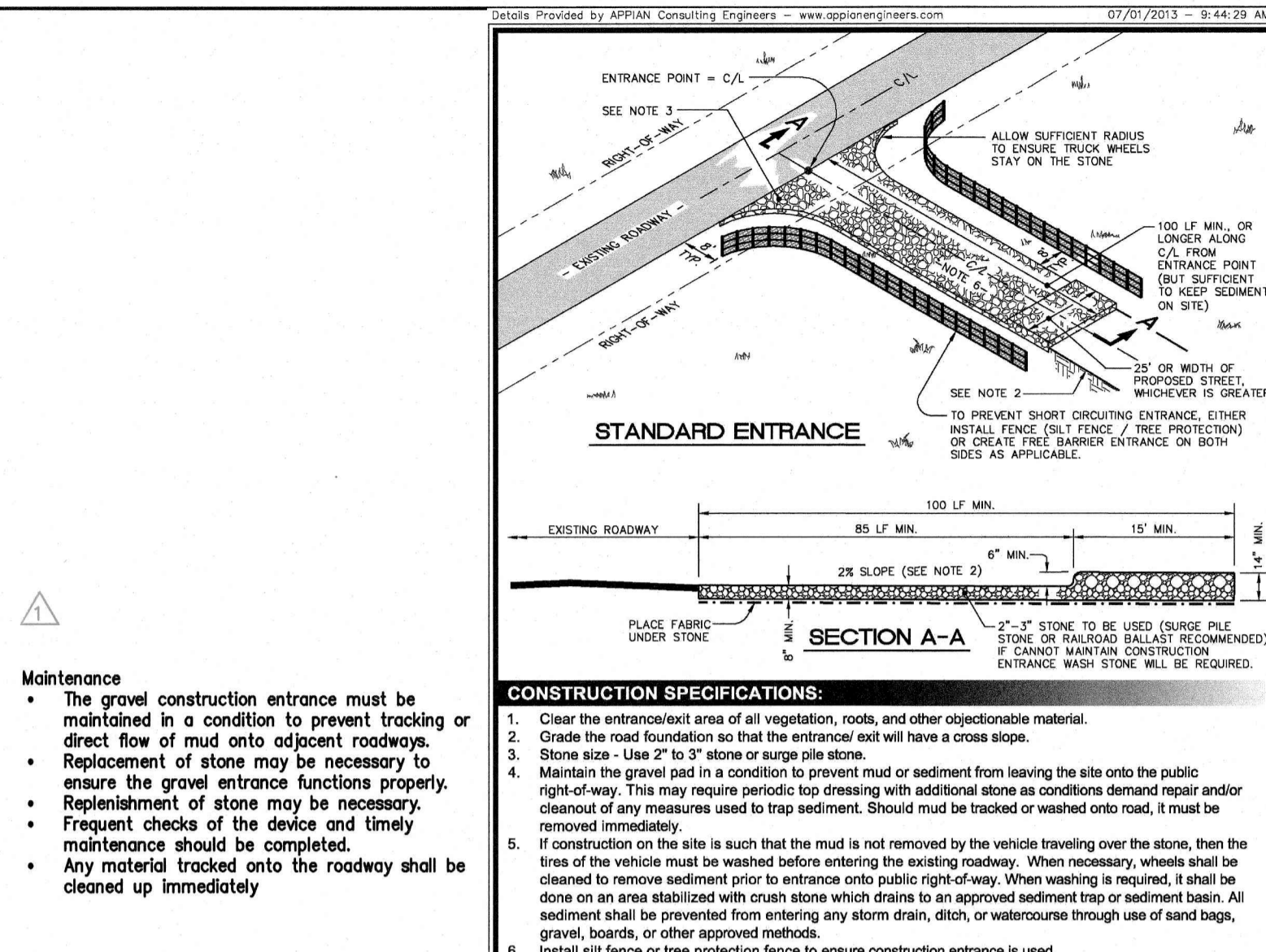
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**MIRACLE FIELD**  
**J. BURT GILLETTEATHLETIC COMPLEX**  
 CITY OF WILSON NORTH CAROLINA

**DETAILS**







**CITY OF WILSON, N.C.**

**STABILIZED CONSTRUCTION ENTRANCE DETAIL**

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

Revision: 1

**CITY OF WILSON, N.C.**

**PIPE INLET PROTECTION**

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

Revision: 1

**CITY OF WILSON, N.C.**

**TYPICAL SILT FENCE**

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

Revision: 1

**CITY OF WILSON, N.C.**

**TYPICAL SILT FENCE OUTLET RELIEF POINT**

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

Revision: 1

**CITY OF WILSON, N.C.**

**STANDARD INLET / BASIN SEDIMENT CONTROL DEVICE**

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

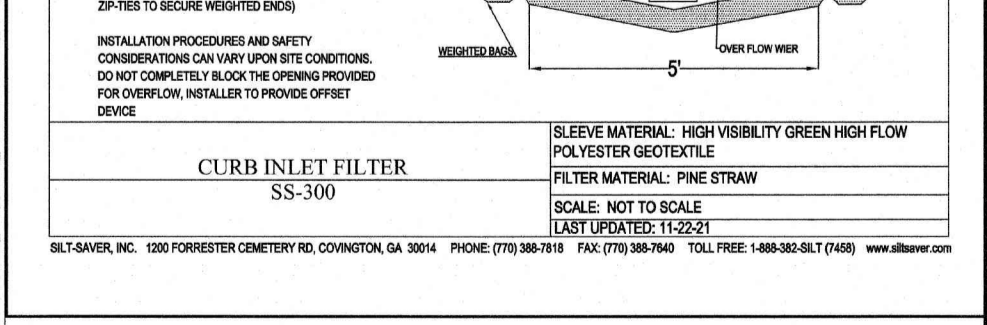
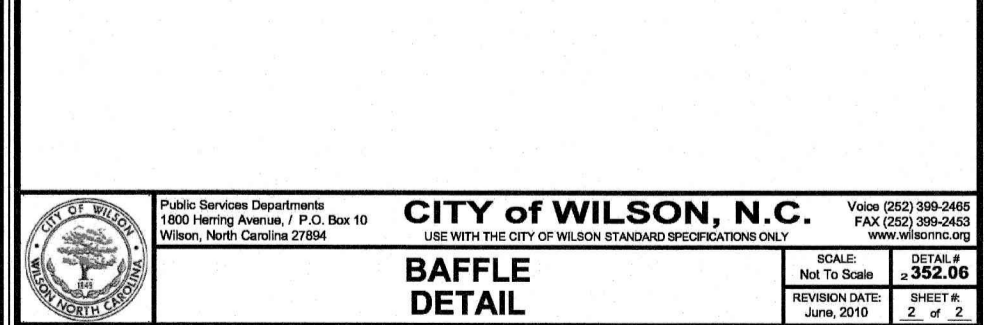
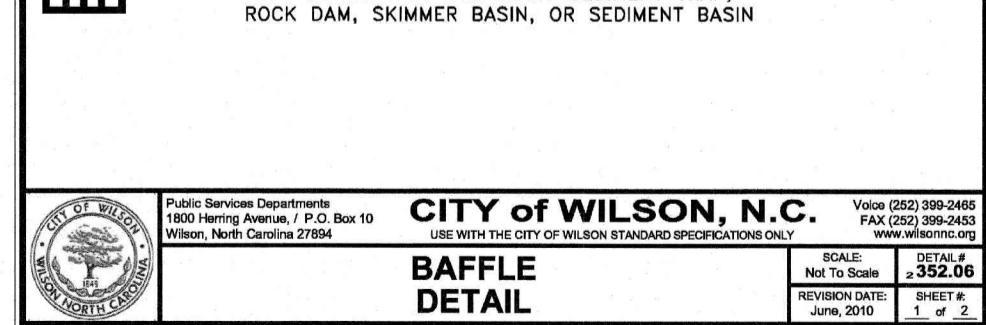
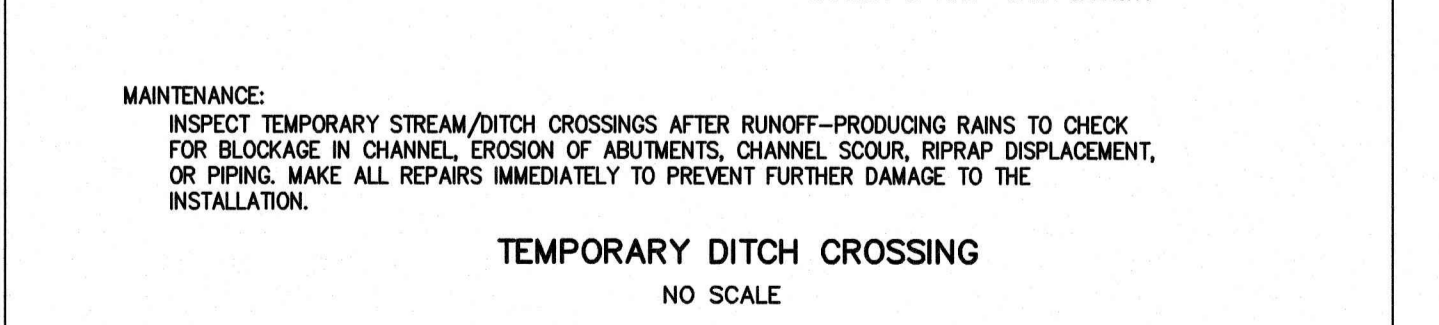
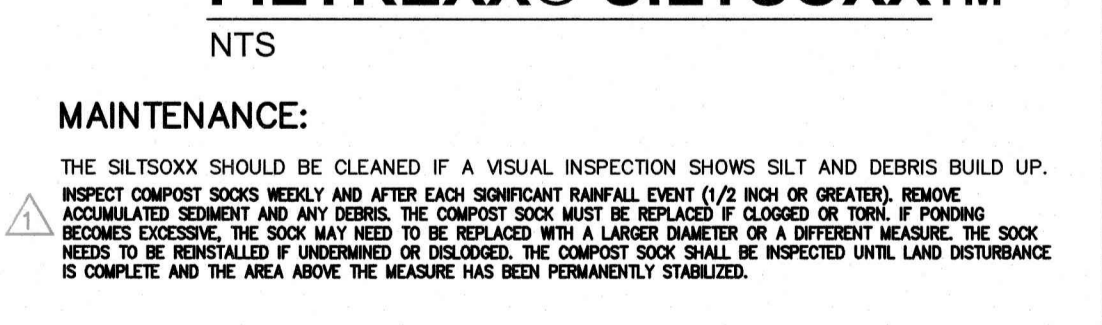
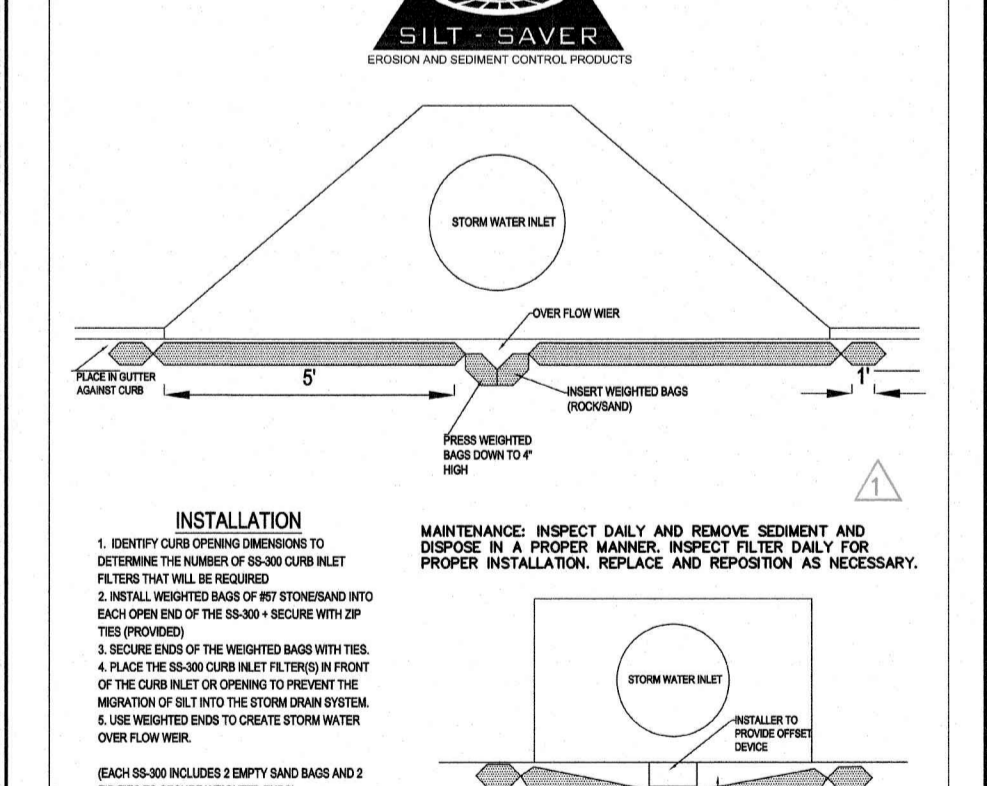
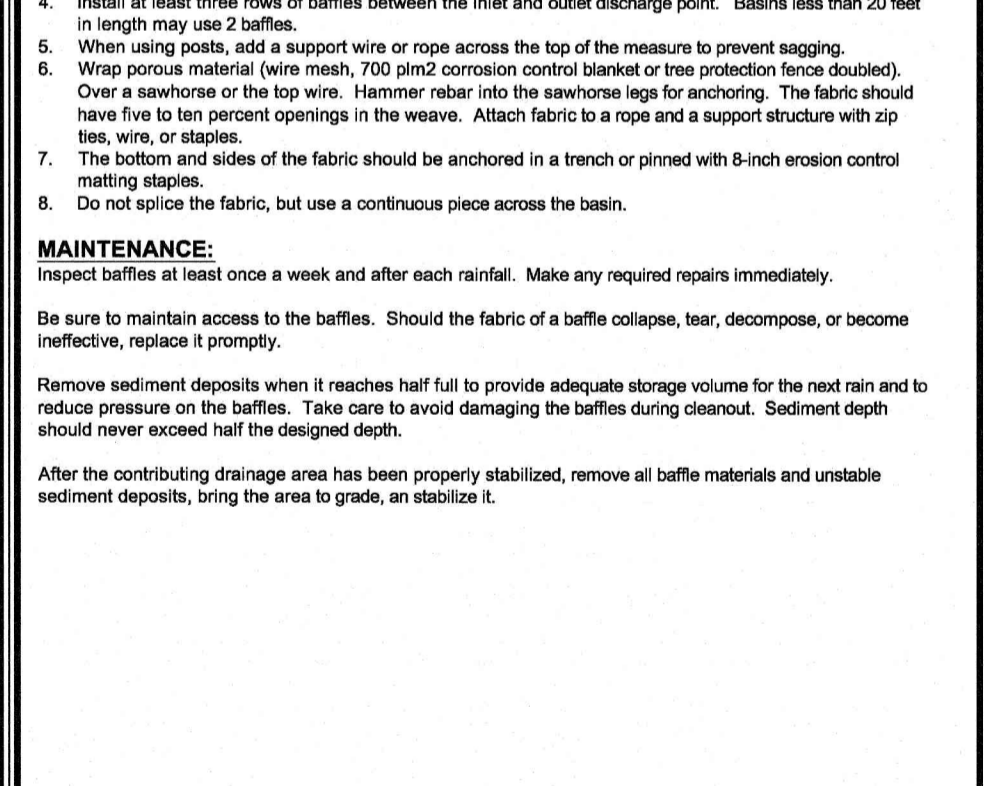
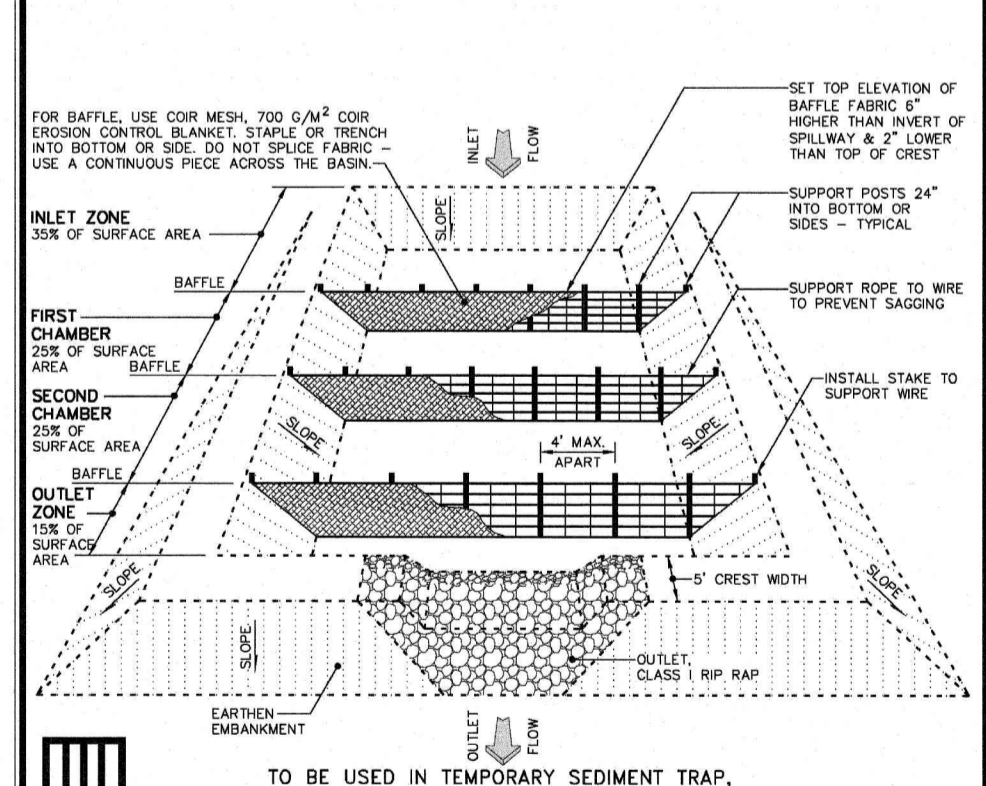
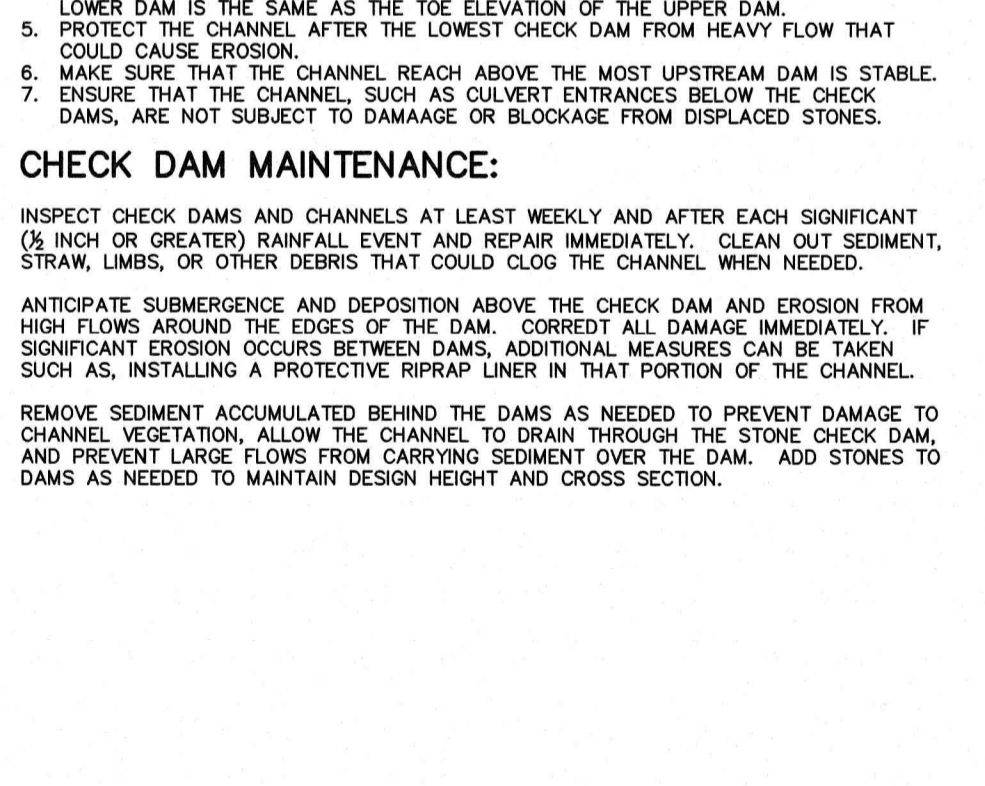
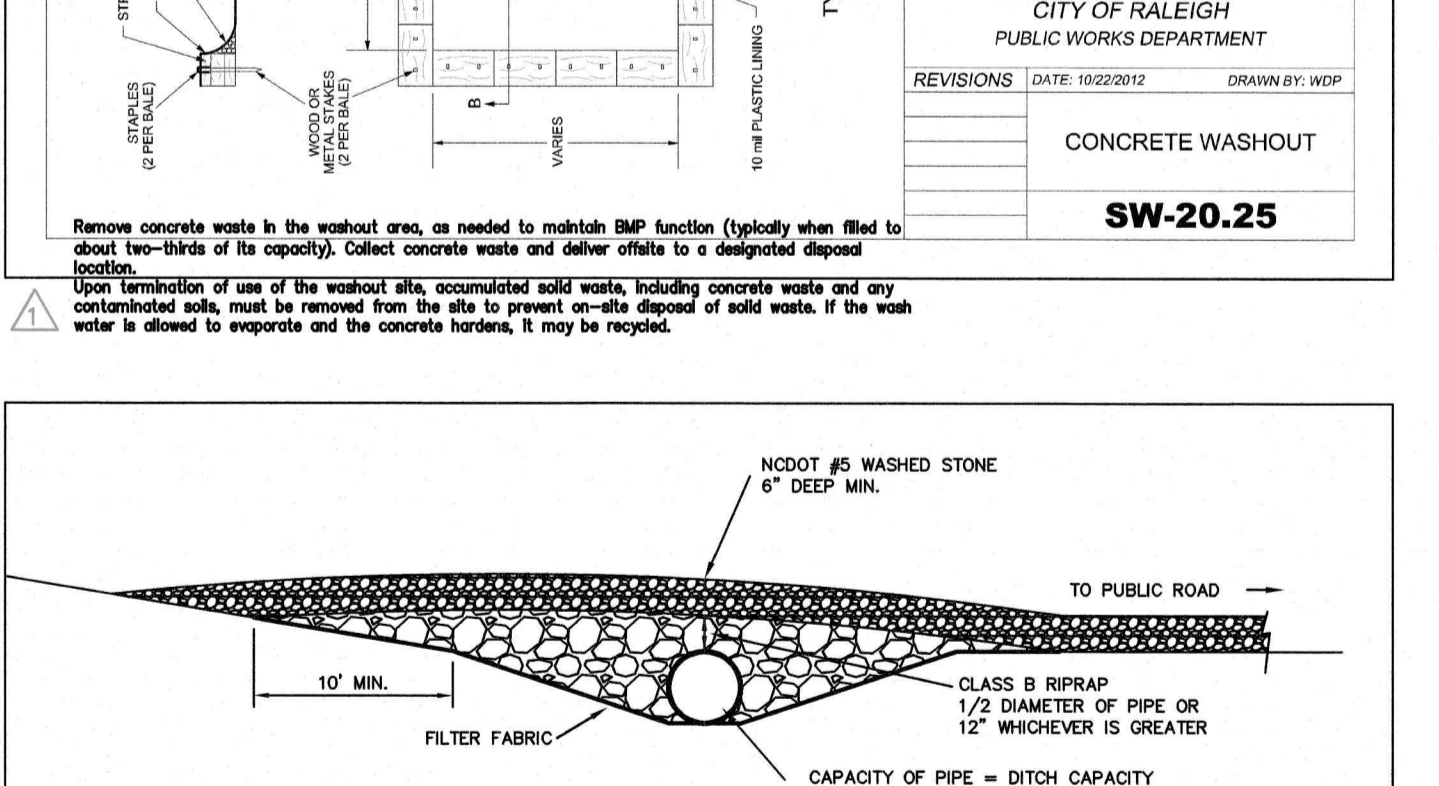
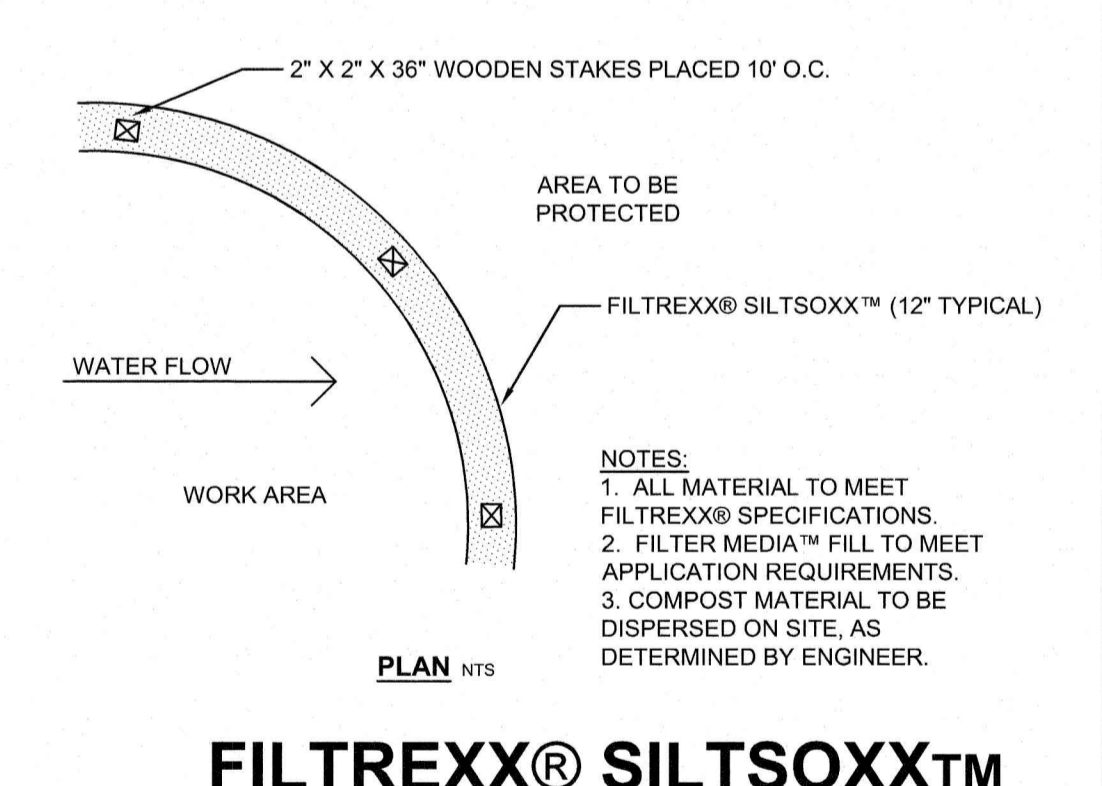
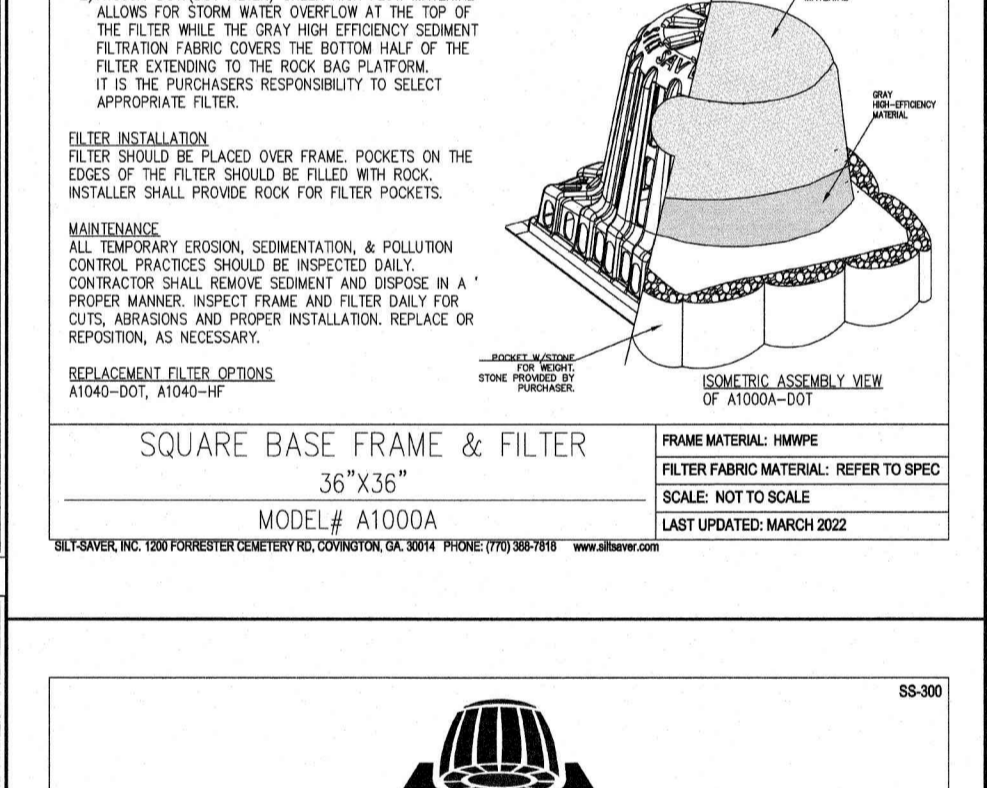
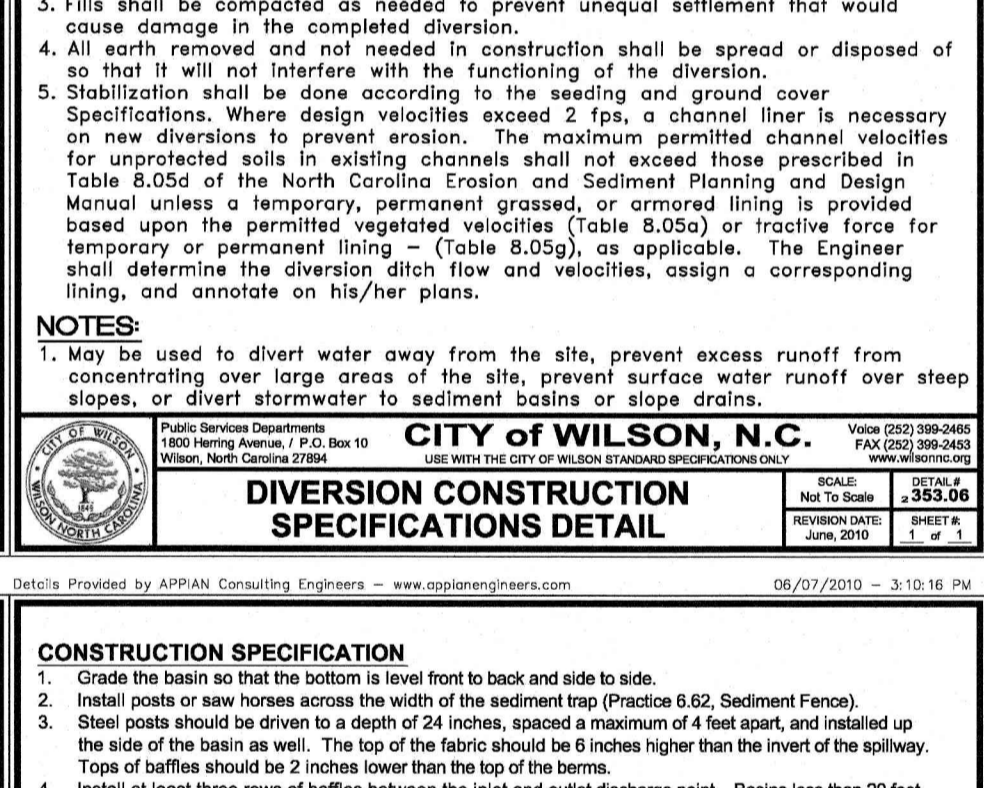
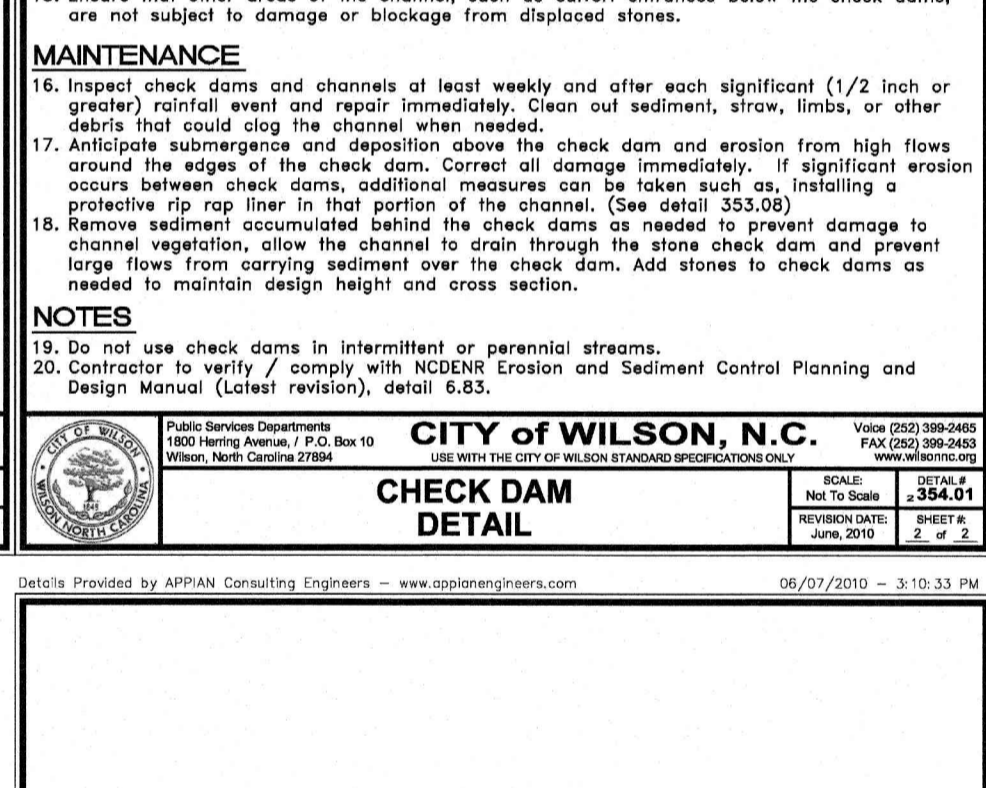
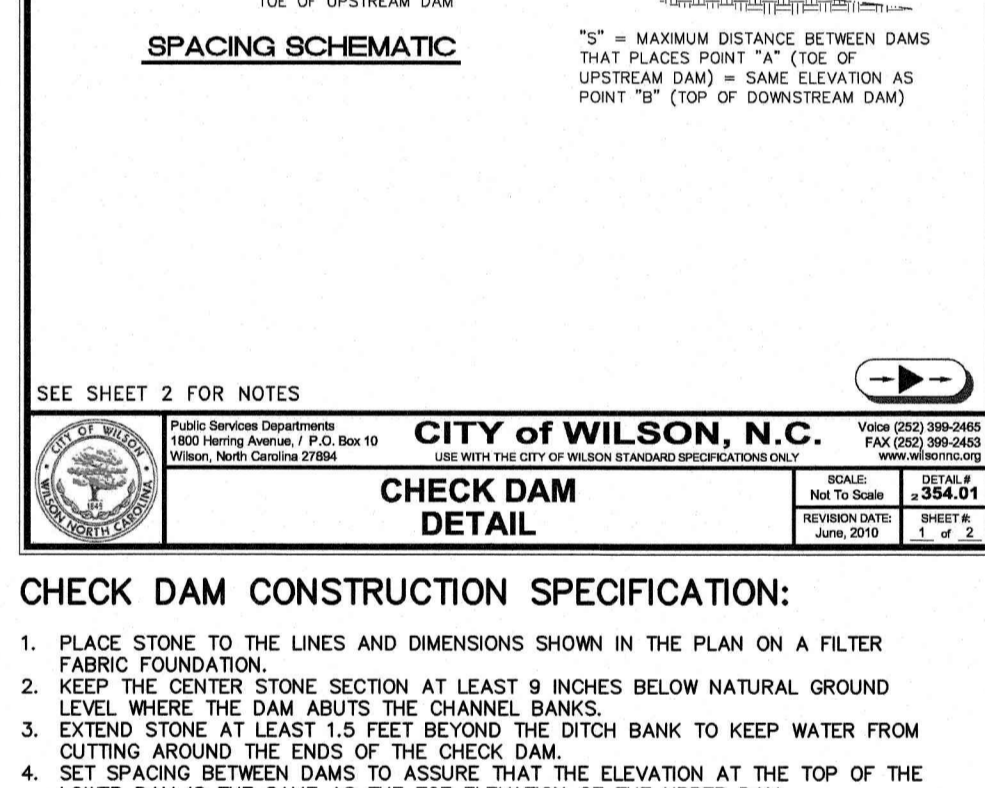
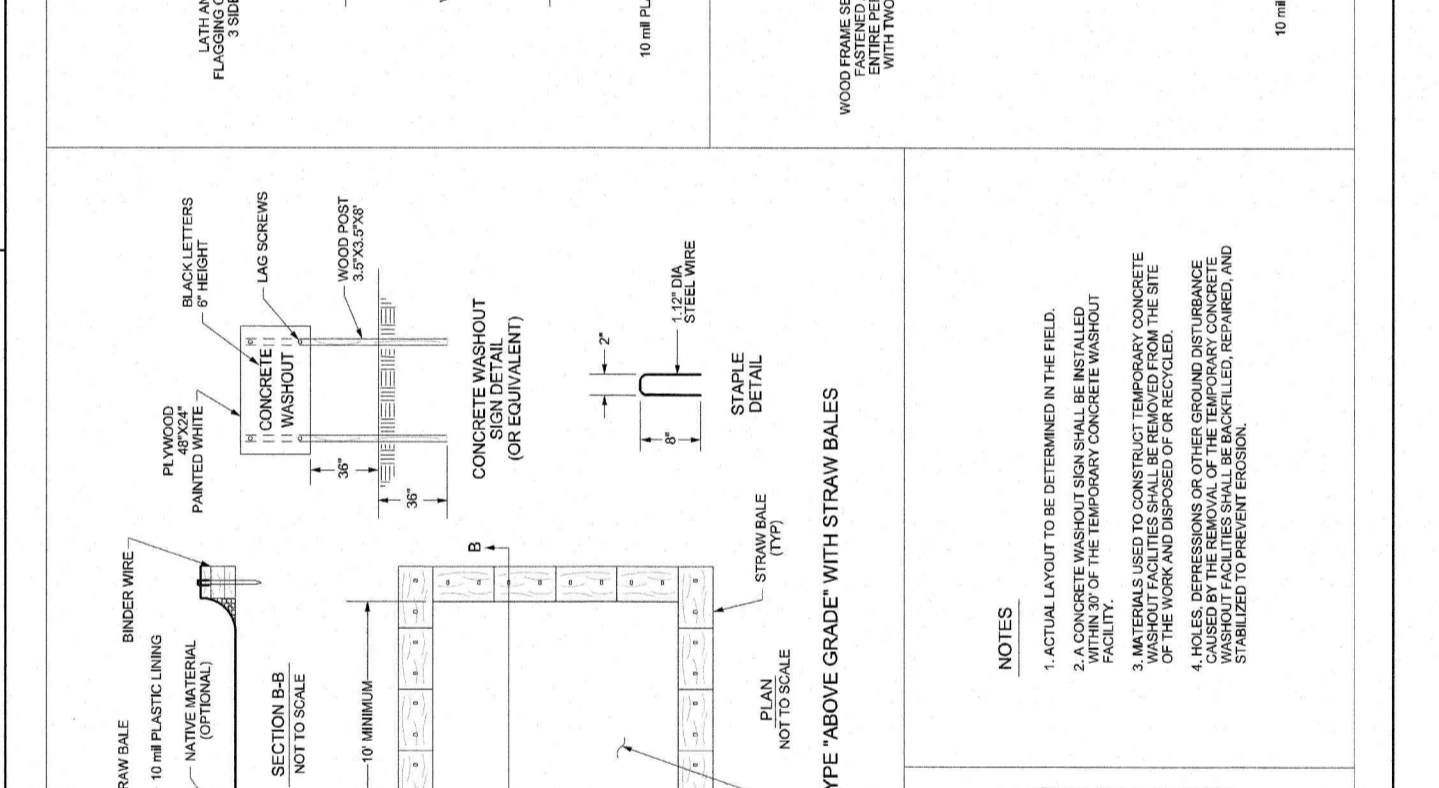
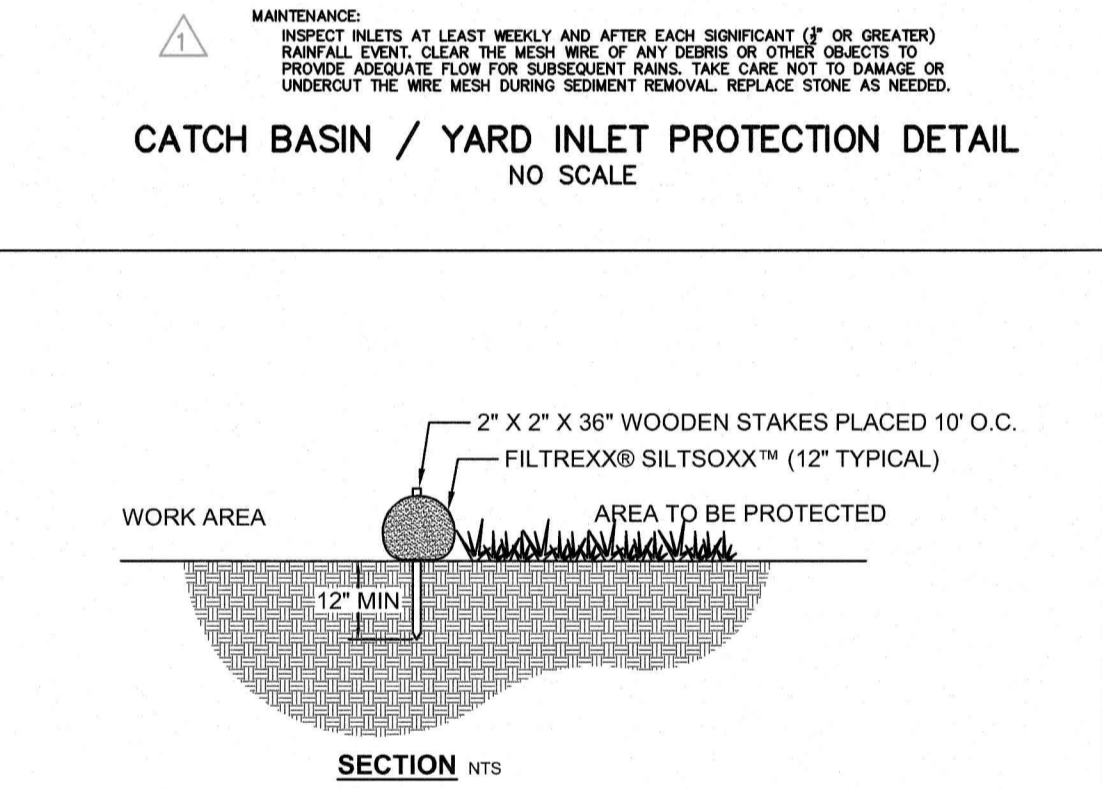
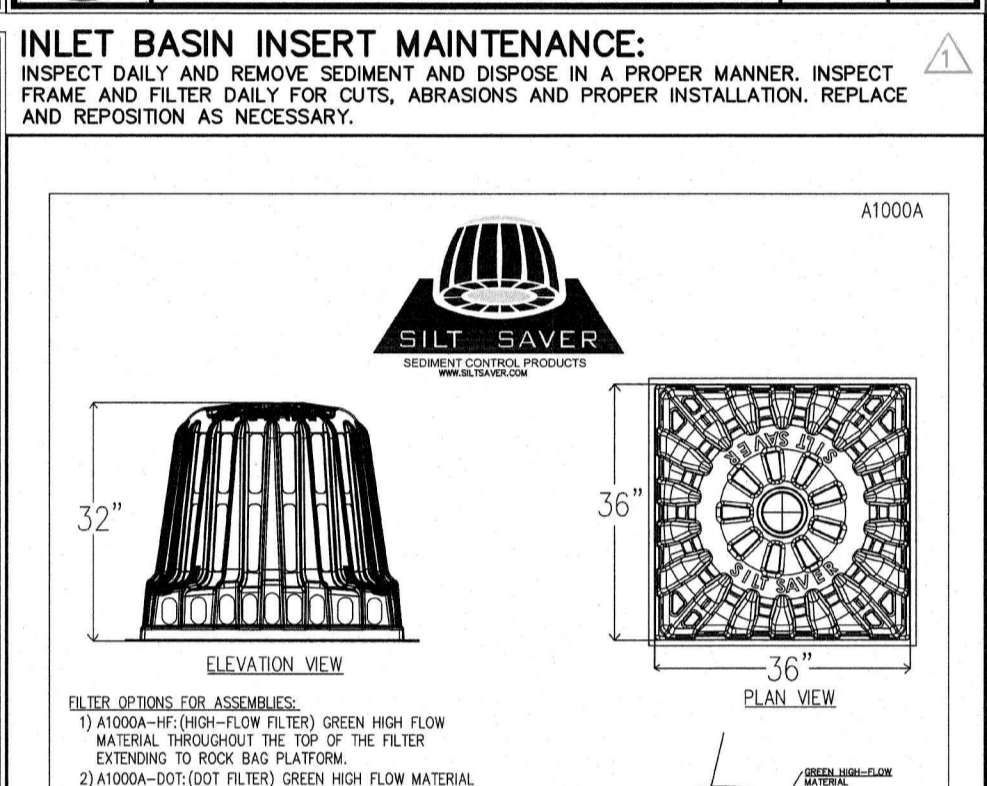
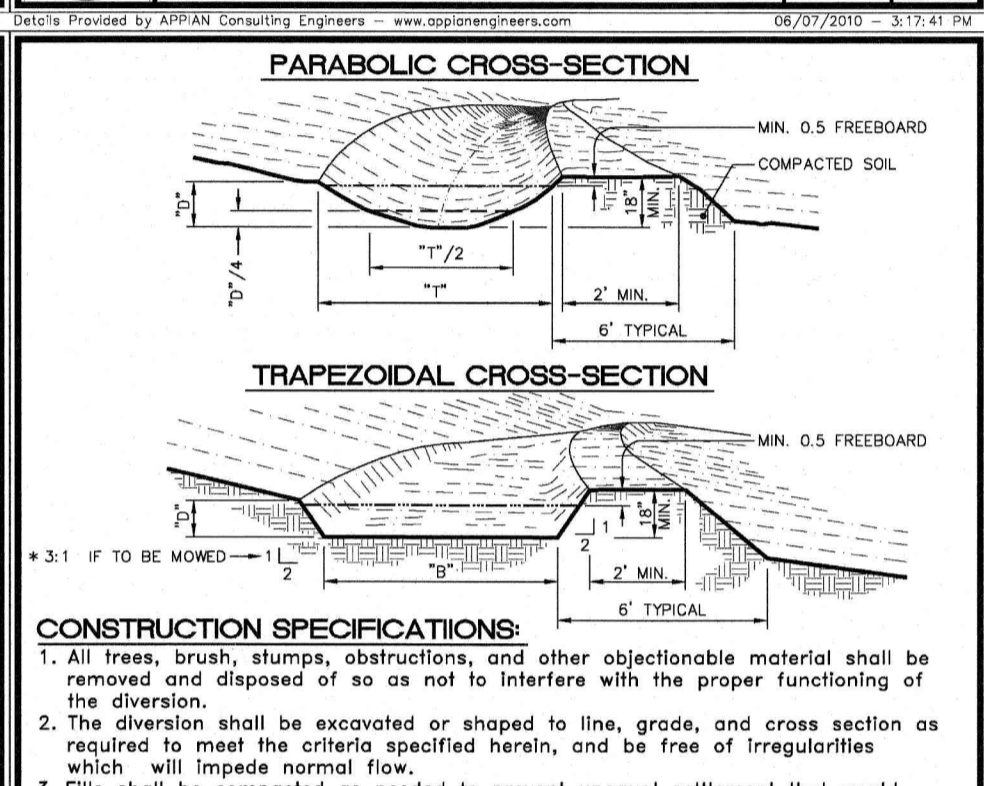
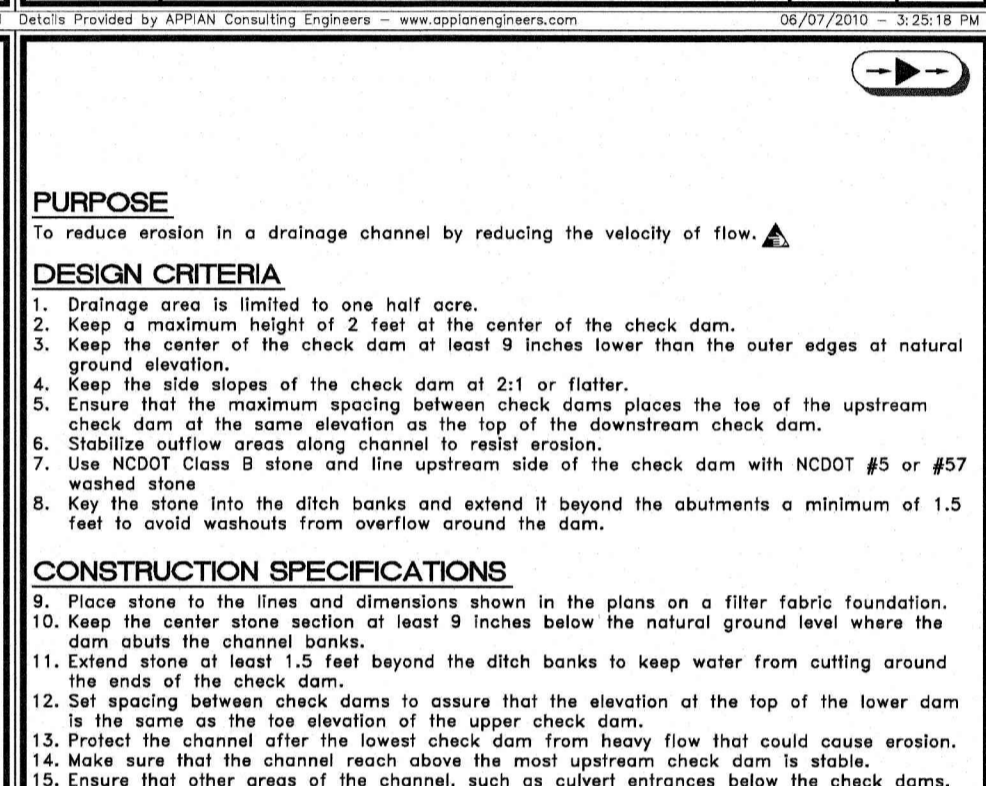
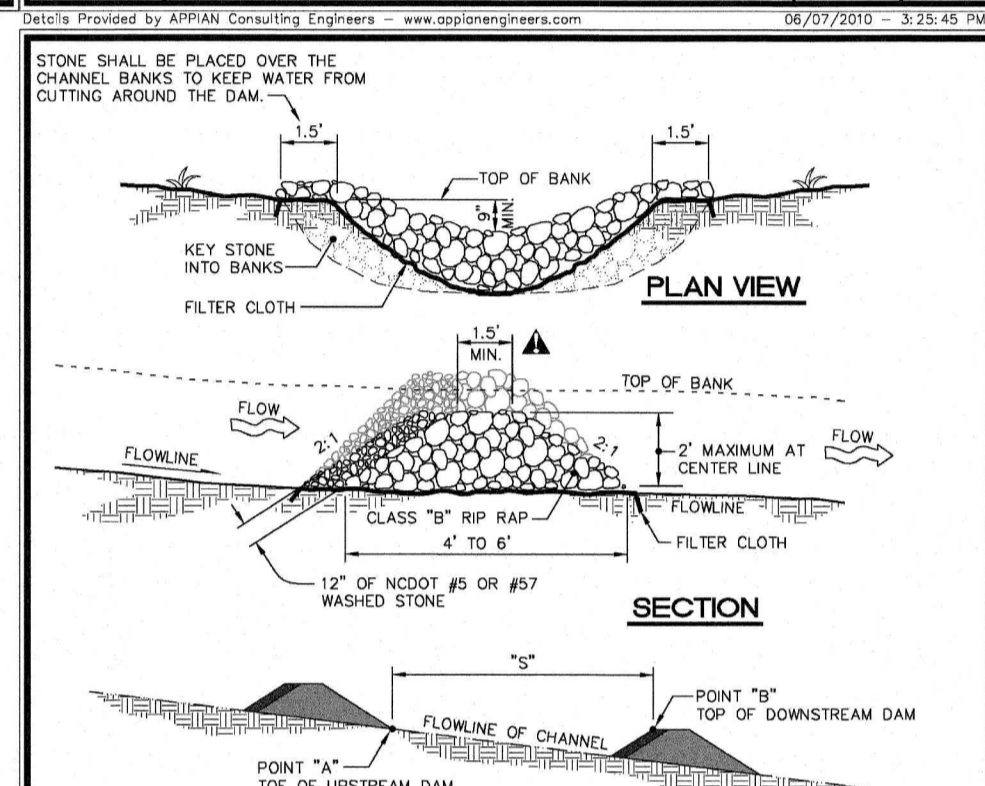
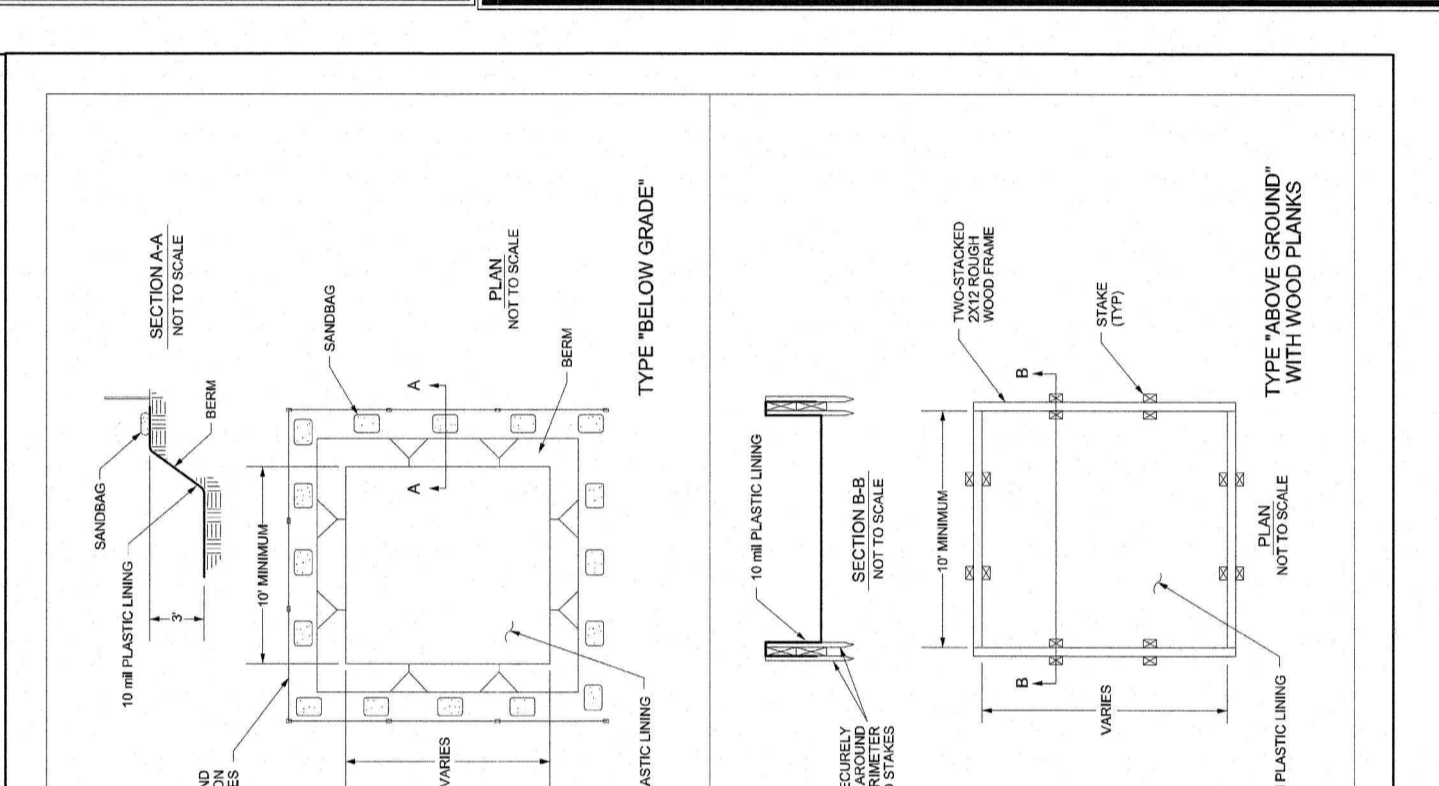
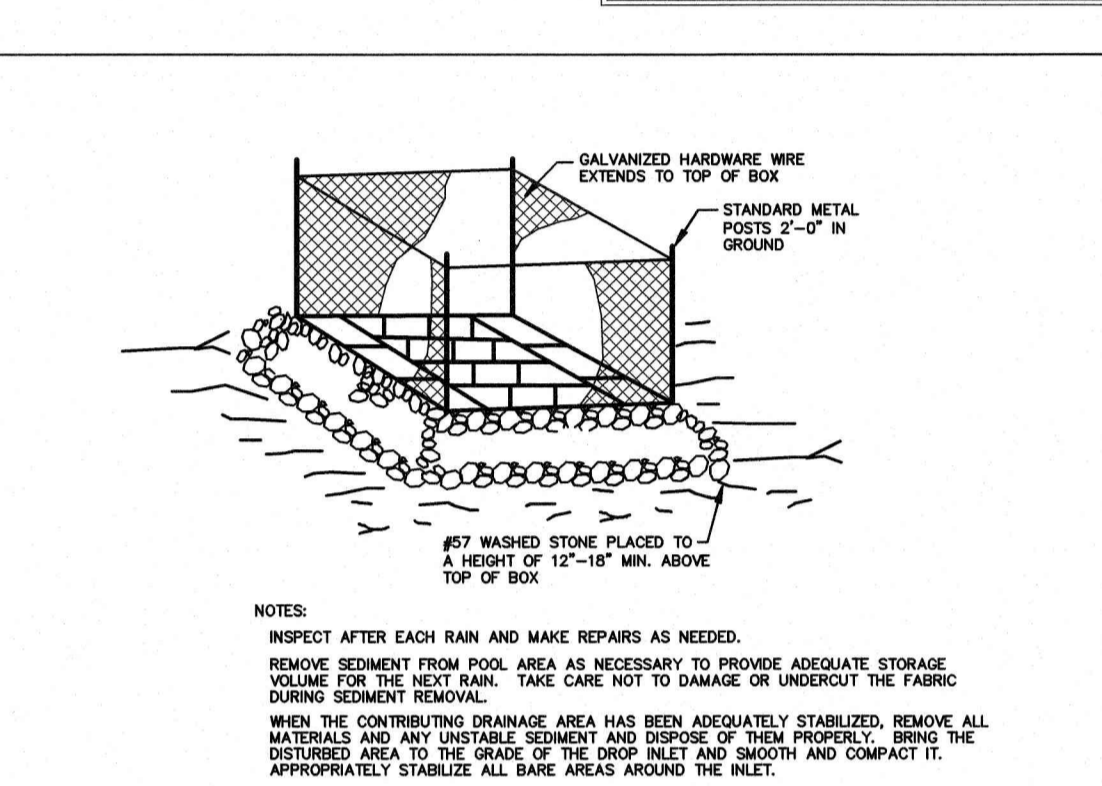
Revision: 1

**CITY OF WILSON, N.C.**

**INLET BASIN INSERT MAINTENANCE**

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

Revision: 1



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**MIRACLE FIELD**

**J. BURT GILLETTE ATHLETIC COMPLEX**

CITY OF WILSON

NORTH CAROLINA

**REVISION**

REVISION	DATE	BY	DATE
EC-NODEQ LAND QUALITY	5/11/22	JMM	
BACKSTOP, CONCRETE WALL, CURB DETAILS	5/11/22	JMM	

**GRAPHIC SCALE**

**AS SHOWN**

**CLIENT CODE:** WILSO 19-004

**JOB NUMBER:** 19-004

**FIELD BOOK:** XXXXX

**CADFILE:** 19004-CV.dwg

**ASCII FILE:**

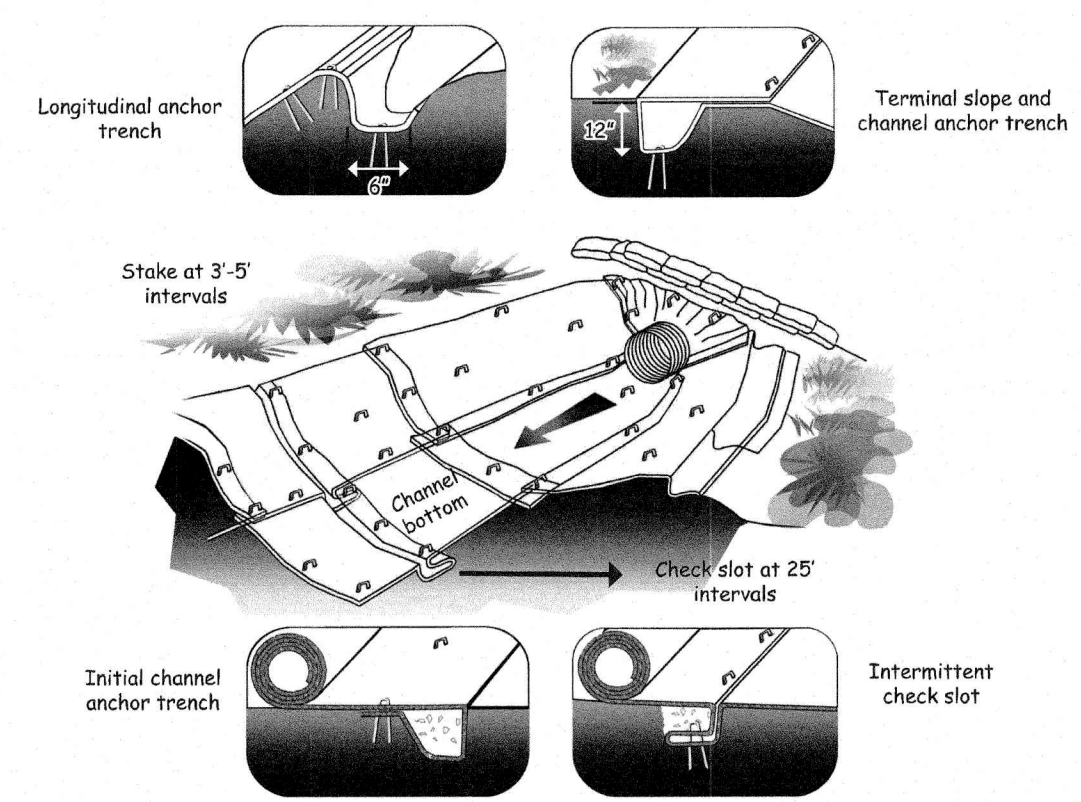
**LAST MODIFIED:** 12-May-22

**MODIFIED BY:** JMM

**SHEET NO. 9 OF 13**

Practice Standards and Specifications

Figure 6.17e Channel Installation and Slope Installation; Washington State Ecology Department

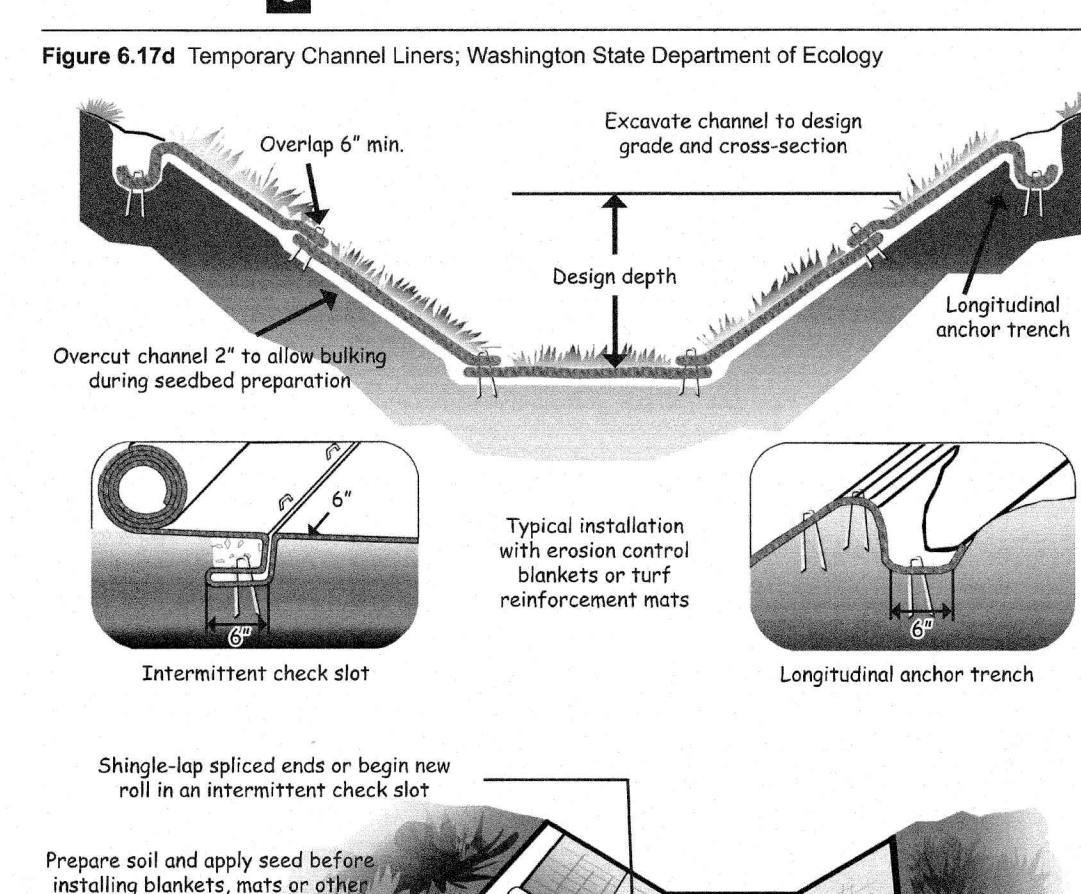


NOTE: 1. Check slots to be constructed per manufacturers specifications. 2. Staking or stapling layout per manufacturers specifications. Slope surface shall be smooth before placement for proper soil contact. If there is a berm at the top of slope, anchor upslope of the berm. Staping patterns as per manufacturers recommendations. Min. 2" overlap. Bring material down to a level area, turn the end under 4" and staple at 12" intervals. Do not stretch blankets/mattings tight—allow the rolls to conform to any irregularities. For slopes less than 3H:1V, rolls may be placed in horizontal strips. Lime, fertilizer, and seed before installation. Planting of shrubs, trees, etc. should occur after installation.

Rev. 6/96

6.17.11

Figure 6.17d Temporary Channel Liners; Washington State Department of Ecology

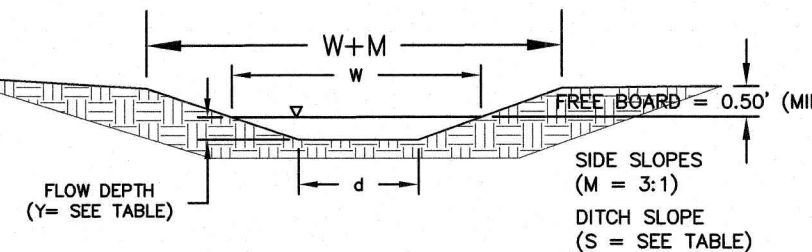


NOTE: 1. Design velocities exceeding 2 ft/sec require temporary blankets, mats or similar liners to protect seed and soil until vegetation becomes established. 2. Grass-lined channels with design velocities exceeding 6 ft/sec should include turf reinforcement mats.

6.17.10

Rev. 6/96

TEMPORARY EROSION CONTROL MATTING NO SCALE



TEMPORARY DIVERSIONS NO SCALE

Channel design— shape: parabolic, trapezoidal, or V-shaped side slope: 2:1 or flatter 3:1 or flatter where vehicles cross

Grades— Either a uniform or a gradually increasing grade is preferred. Sudden decreases in grade accumulate sediment and should be expected to cause overtopping. A large increase in grade may erode.

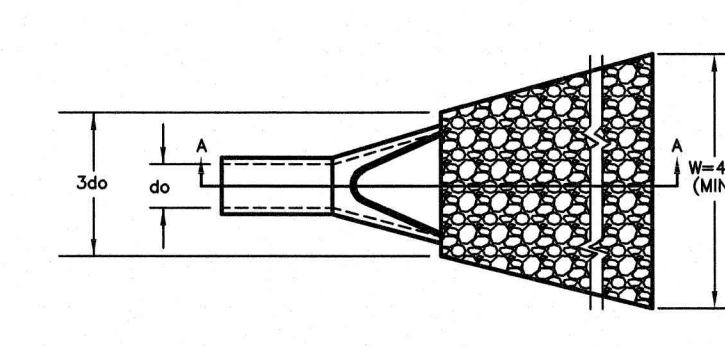
Outlet— Design the outlet to accept flow from the diversion plus any other contributing areas. Divert sediment-laden runoff and release through a sediment-trapping device (Practice 6.60, Temporary Sediment Trap and Practice 6.61, Sediment Basin). Flow from undisturbed areas can be dispersed by a level spreader (Practice 6.40, Level Spreader).

Small diversions— Where the diversion channel grade is between 0.2 and 3%, a permanent vegetative cover is required. A parabolic channel and ridge 1.5 feet deep and 12 feet wide may be used for diversions with flows up to 5 cfs. This depth does not include freeboard or settlement. Side slopes should be 3:1 or flatter, and the top of the dike must be at least 2 feet wide.

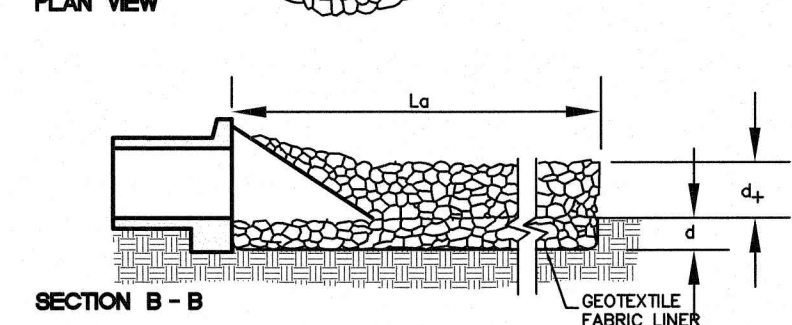
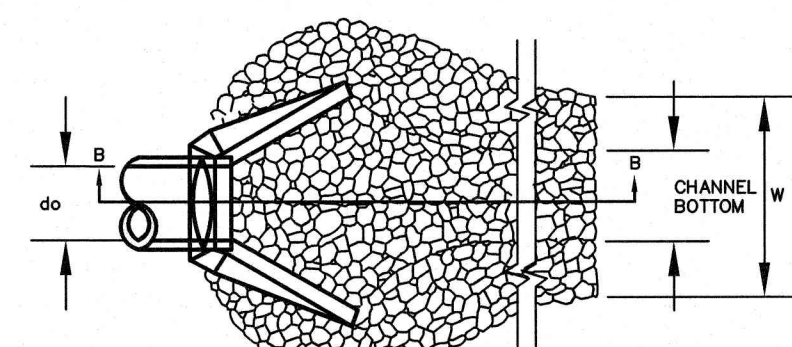
Construction Specifications 1. Remove and properly dispose of all trees, brush, stumps, and other objectionable material. 2. Ensure that the minimum constructed cross section meets all design requirements. 3. Ensure that the top of the dike is not lower at any point than the design elevation plus the specified settlement. 4. Provide sufficient room around diversions to permit machine regrading and cleanout. 5. Vegetate the ridge immediately after construction, unless it will remain in place less than 30 working days.

Maintenance Inspect temporary diversions once a week and after every rainfall. Immediately remove sediment from the flow area and repair the diversion ridge. Carefully check outlets and make timely repairs as needed. When the area protected is permanently stabilized, remove the ridge and the channel to blend with the natural ground level and appropriately stabilize it.

TYPE A PIPE OUTLET TO FLAT AREA WITH NO DEFINED CHANNEL



TYPE B PIPE OUTLET TO WELL-DEFINED CHANNEL



OUTLET PROTECTION NO SCALE

NOTES: 1. d = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6 INCHES. 2. d+ = 6" ABOVE MAXIMUM TAILWATER OR TOP OF CHANNEL BANK (WHICHEVER IS LESS). 3. L0 = LENGTH OF RIPRAP APRON. 4. d0 = PIPE DIAMETER. 5. STONE DIA. W (FROM CHART)

Construction Specifications

Construction Even if properly designed, if not properly installed, RECP's will probably not function as desired. Proper installation is imperative. Even if properly installed, if not properly timed and nourished, vegetation will probably not grow as desired. Proper seed/vegetation selection is also imperative. Grade the surface of installation areas so that the ground is smooth and loose. When seeding prior to installation, follow the steps for seed bed preparation, soil amendments, and seeding in Surface Stabilization, 6.1. All gullies, rills, and any other disturbed areas must be fine graded prior to installation. Spread seed before RECP installation. (Important: Remove all large rocks, dirt clods, stumps, roots, grass clumps, trash, and other obstructions from the soil surface to allow for direct contact between the soil surface and the RECP.)

Installation in Channels— Excavate terminal trenches (12 inches deep and 6 inches wide) across the channel at the upper and lower end of the lined channel sections. At 25-foot intervals along the channel, anchor the RECP across the channel either in 6 inch by 6 inch trenches or by installing two closely spaced rows of anchors. Excavate longitudinal trenches 6 inches deep and wide along channel edges (above water line) in which to bury the outside RECP edges. Place the first RECP at the downstream end of the channel. Place the end of the first RECP in the terminal trench and pin it at 1 foot intervals along the bottom of the trench.

Once pinned and backfilled, the RECP is deployed by wrapping over the top of the trench and unrolling upstream. If the channel is wider than the provided rolls, place ends of adjacent rolls in the terminal trench, overlapping the adjacent rolls a minimum of 3 inches. Pin at 1 foot intervals, backfill, and compact. Unroll the RECP in the upstream direction until reaching the first intermittent trench. Fold the RECP back over itself, positioning the roll on the downstream side of the trench, and allowing the mat to conform to the trench.

Then pin the RECP (two layers) to the bottom of the trench, backfill, and compact. Continue up the channel (wrapping over the top of the intermittent trench) repeating this step at other intermittent trenches, until reaching the upper terminal trench.

At the upper terminal trench, allow the RECP to conform to the trench, secure with pins or staples, backfill, compact and then bring the mat back over the top of the trench and onto the existing mat (2 to 3 feet overlap in the downstream direction), and pin at 1 foot intervals across the RECP.

Drive staples or pins so that the top of the staple or pin is flush with the ground surface. Anchor each RECP every 3 feet along its center. Longitudinal overlaps must be sufficient to accommodate a row of anchors and uniform along the entire length of overlap and anchored every 3 feet along the overlap length. Roll ends may be spliced by overlapping 1 foot (in the direction of water flow), with the upstream/upslope mat placed on top of the downstream/downslope RECP. This overlap should be anchored at 1 foot spacing across the RECP. When installing multiple width mats heat sealed in the factory, all factory seams and field overlaps should be similarly anchored.

ANCHORING DEVICES— 11 gauge, at least 6 inches length by 1 inch width staples or 12 inch minimum length wooden stakes are recommended for anchoring the RECP to the ground.

CONSTRUCTION SPECIFICATION

- 1. CLEAR, GRUB, AND STRIP THE AREA UNDER THE EMBANKMENT OF ALL VEGETATION AND ROOT MAT. REMOVE ALL SURFACE SOIL CONTAINING HIGH AMOUNTS OF ORGANIC MATTER AND STOCKPILE OR DISPOSE OF IT PROPERLY. HULL ALL OBJECTIONABLE MATERIAL TO THE DESIGNATED DISPOSAL AREA. PLACE TEMPORARY SEDIMENT CONTROL MEASURES BELOW BASIN AS NEEDED. 2. ENSURE THAT FILL MATERIAL FOR THE EMBANKMENT IS FREE OF ROOTS, WOODY VEGETATION, ORGANIC MATTER, AND OTHER OBJECTIONABLE MATERIAL. PLACE THE FILL IN LIFTS NOT TO EXCEED 9 INCHES AND MACHINE COMPACT IT. OVERLAP THE EMBANKMENT 6 INCHES TO ALLOW FOR SETTLEMENT. SHAPE THE BASIN TO THE SPECIFIED DIMENSIONS. PREVENT THE SKIMMING DEVICE FROM SETTLING INTO THE MUD BY EXCAVATING A SHALLOW PIT UNDER THE SKIMMER OR PROVIDING A LOW SUPPORT UNDER THE SKIMMER OF STONE OR TIMBER. 3. PLACE THE BARREL (TYPICALLY 4-INCH SCHEDULE 40 PVC PIPE) ON A FIRM, SMOOTH FOUNDATION OF IMPERVIOUS SOIL. DO NOT USE PERVIOUS MATERIAL SUCH AS SAND, GRAVEL OR CRUSHED STONE AS BACKFILL AROUND THE PIPE. PLACE THE FILL MATERIAL AROUND THE PIPE SPILLWAY IN 4-INCH LAYERS AND COMPACT IT UNDER AND AROUND THE PIPE TO AT LEAST THE SAME DENSITY AS THE ADJACENT EMBANKMENT. CARE MUST BE TAKEN NOT TO RAISE THE PIPE FROM THE FIRM CONTACT WITH ITS FOUNDATION UNDER THE PIPE HAUNCHES. PLACE A MINIMUM DEPTH OF 2 FEET OF COMPACTED BACKFILL OVER THE PIPE SPILLWAY BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT. IN NO CASE SHOULD THE PIPE CONDUIT BE INSTALLED BY CUTTING A TRENCH THROUGH THE DAM AFTER THE EMBANKMENT IS COMPLETE. 4. ASSEMBLE THE SKIMMER FOLLOWING THE MANUFACTURER'S INSTRUCTIONS, OR AS DESIGNED. 5. LAY THE ASSEMBLED SKIMMER ON THE BOTTOM OF THE BASIN WITH THE FLEXIBLE JOINT AT THE INLET OF THE BARREL PIPE. ATTACH THE FLEXIBLE JOINT TO THE BARREL PIPE AND POSITION THE SKIMMER OVER THE EXCAVATED PIT OR SUPPORT. BE SURE TO ATTACH A ROPE TO THE SKIMMER AND ANCHOR IT TO THE SIDE OF THE BASIN. THIS WILL BE USED TO PULL THE SKIMMER TO THE SIDE FOR MAINTENANCE. 6. EARTHEN SPILLWAYS—INSTALL THE SPILLWAY IN UNDISTURBED SOIL TO THE GREATEST EXTENT POSSIBLE. THE ACHIEVEMENT OF PLANNED ELEVATIONS, GRADE, DESIGN WIDTH, AND ENTRANCE AND EXIT CHANNEL SLOPES ARE CRITICAL TO THE SUCCESSFUL OPERATION OF THE SPILLWAY. THE SPILLWAY SHOULD BE LINED WITH LAMINATED PLASTIC OR IMPERMEABLE GEOTEXTILE FABRIC. THE FABRIC MUST BE WIDE AND LONG ENOUGH TO COVER THE BOTTOM AND SIDES AND EXTEND ONTO THE TOP OF THE DAM FOR ANCHORING IN A TRENCH. THE EDGES MAY BE SECURED WITH 8-INCH STAPLES OR PINS. THE FABRIC MUST BE LONG ENOUGH TO EXTEND DOWN THE SLOPE AND EXIT ONTO STABLE GROUND. THE WIDTH OF THE FABRIC MUST BE ONE PIECE, NOT JOINED OR SPLICED; OTHERWISE WATER CAN GET UNDER THE FABRIC. IF THE LENGTH OF THE FABRIC IS INSUFFICIENT FOR THE ENTIRE LENGTH OF THE SPILLWAY, MULTIPLE SECTIONS, SPANNING THE COMPLETE WIDTH, MAY BE USED. THE UPPER SECTIONS(S) SHOULD OVERLAP THE LOWER SECTIONS(S) SO THAT WATER CANNOT FLOW UNDER THE FABRIC. SECURE THE UPPER EDGE AND SIDES OF THE FABRIC IN A TRENCH WITH STAPLES OR PINS. 7. INLETS—DISCHARGE WATER INTO THE BASIN IN A MANNER TO PREVENT EROSION. USE TEMPORARY SLOPE DIVERSORS WITH OUTLET PROTECTION TO DIVERT SEDIMENT-LADEN WATER TO THE UPPER END OF THE POOL AREA TO IMPROVE BASIN TRAP EFFICIENCY. 8. EROSION CONTROL—CONSTRUCT THE STRUCTURE SO THAT THE DISTURBED AREA IS MINIMIZED. DIVERT SURFACE WATER AWAY FROM BARE AREAS. COMPLETE THE EMBANKMENT BEFORE THE AREA IS CLEARED. STABILIZE THE EMERGENCY SPILLWAY EMBANKMENT AND ALL OTHER DISTURBED AREAS ABOVE THE CREST OF THE PRINCIPAL SPILLWAY IMMEDIATELY AFTER CONSTRUCTION. 9. INSTALL POROUS BAFFLES AS SPECIFIED IN PRACTICE 6.65. 10. AFTER ALL THE SEDIMENT-PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE THE STRUCTURE AND ALL THE UNSTABLE SEDIMENT. SMOOTH THE AREA TO BLEND WITH THE ADJOINING AREAS AND STABILIZE PROPERLY.

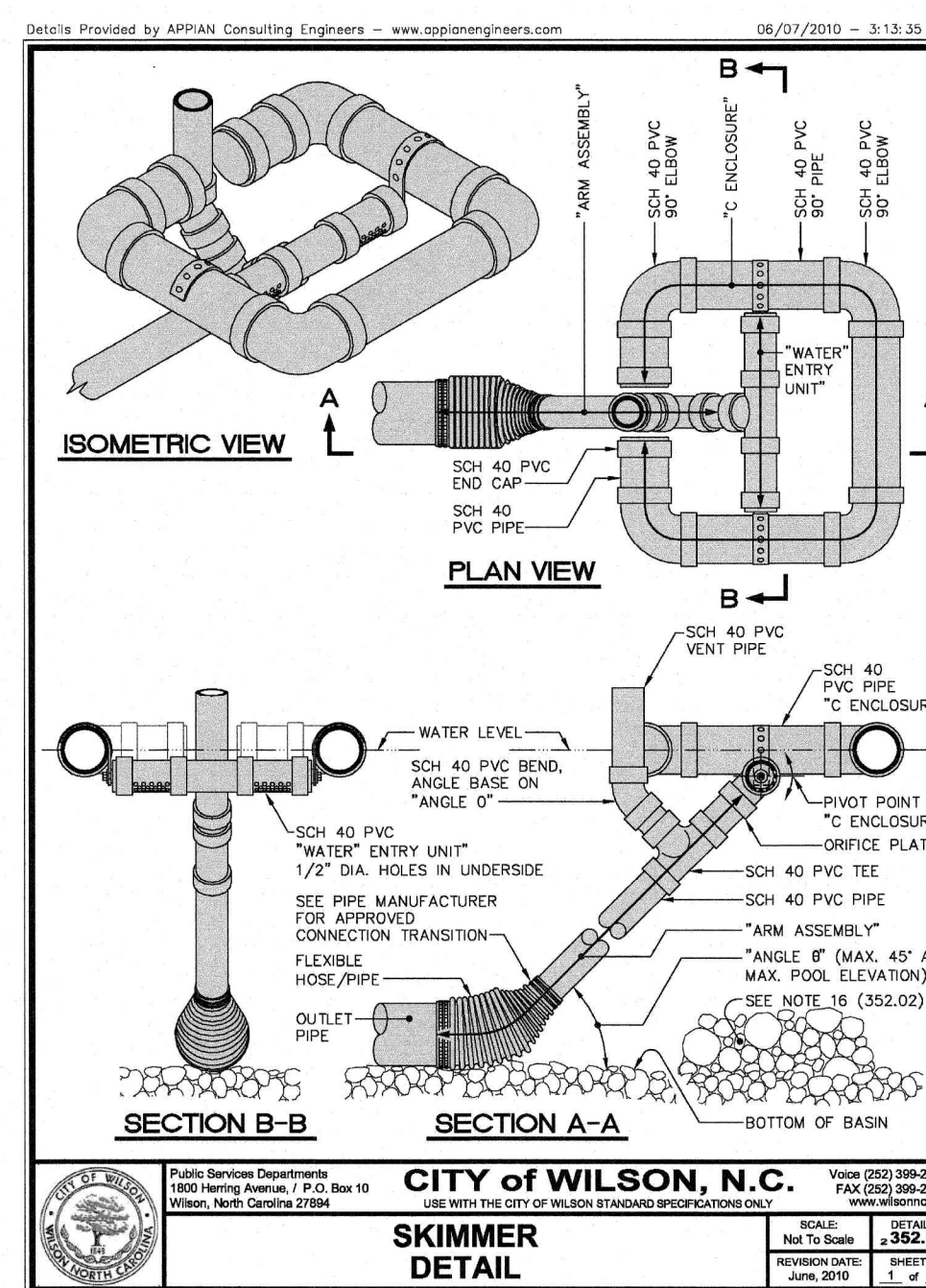
MAINTENANCE

INSPECT SKIMMER SEDIMENT BASIN AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (ONE-HALF INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE HEIGHT OF THE FIRST BAFFLE. PULL THE SKIMMER TO ONE SIDE SO THAT THE SEDIMENT UNDERNEATH CAN BE EXCAVATED. EXCAVATE THE SEDIMENT FROM THE ENTIRE BASIN, NOT JUST AROUND THE SKIMMER OR THE FIRST CELL. MAKE SURE VEGETATION GROWING IN THE BOTTOM OF THE BASIN DOES NOT HOLD DOWN THE SKIMMER. REPAIR THE BAFFLES IF THEY ARE DAMAGED. RE-ANCHOR THE BAFFLES IF WATER IS FLOWING UNDERNEATH OR AROUND THEM. IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY JACKING ON THE ROPE WILL MAKE THE SKIMMER POP UP AND DOWN AND DISLodge THE DEBRIS AND RESTORE FLOW. IF THESE DOES NOT WORK, PULL THE SKIMMER OVER TO THE SIDE OF THE BASIN AND REMOVE THE DEBRIS. ALSO CHECK THE ORIFICE INSIDE THE SKIMMER TO SEE IF IT IS CLOGGED; IF SO REMOVE THE DEBRIS. IF THE SKIMMER ARM OR BARREL PIPE IS CLOGGED, THE ORIFICE CAN BE REMOVED AND THE OBSTRUCTION CLEARED WITH A PLUMBER'S SNAKE OR BY FLEXING WITH WATER. BE SURE AND REPLACE THE ORIFICE BEFORE REPOSITIONING THE SKIMMER. CHECK THE FABRIC LINED SPILLWAY FOR DAMAGE AND MAKE ANY REQUIRED REPAIRS WITH FABRIC THAT SPANS THE FULL WIDTH OF THE SPILLWAY. CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PILING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE SKIMMER AND POOL AREAS. FREEZING WEATHER CAN RESULT IN ICE FORMING IN THE BASIN. SOME SPECIAL PRECAUTIONS SHOULD BE TAKEN IN THE WINTER TO PREVENT THE SKIMMER FROM PLUGGING WITH ICE.

SEDIMENT BASIN WITH SKIMMER OUTLET AND EMERGENCY SPILLWAY NO SCALE

Table with 4 columns: REVISION, DATE, BY, DATE. Includes revision 1 on 5/11/22 by JM.

CLIENT CODE: WILSO JOB NUMBER: 19-004 FIELD BOOK: XXXXX CADFILE: 19004-CV.dwg ASCH FILE: LAST MODIFIED: 12-May-22 MODIFIED BY: JM SHEET NO. 10 OF 13



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MIRACLE FIELD J. BURT GILLETTE ATHLETIC COMPLEX CITY OF WILSON NORTH CAROLINA

DETAILS AS SHOWN

Professional Engineer Seal for Leo Green III, License 022594, State of North Carolina.

NOTE: TRENCH DRAIN COMPONENTS TO BE PROVIDED BY WATTS OR EQUIVALENT MANUFACTURER AND MATERIALS.

Engineering Specification

Job Name, Job Location, Engineer, Approval, Tag, Contractor, Approval, Contractor's P.O. No., Representative

Dead Level® D Pre-Sloped Polypropylene Trench Drain System with Ductile Iron Frame

Specification

Watts Dead Level® D Pre-Sloped Trench Drain System with 6'(152) wide x 48'(1219) long (standard) ductile iron frame, UV stabilized tefco-filled polypropylene channels with integral 4'(102) no hub bottom or end outlet(s). System shall be frame-anchored, with (specify) grating to suit DIN Class (specify) load rating. System to include frame connectors, grate lockdowns, and construction covers. Installation to be performed in accordance with manufacturer's installation instructions.

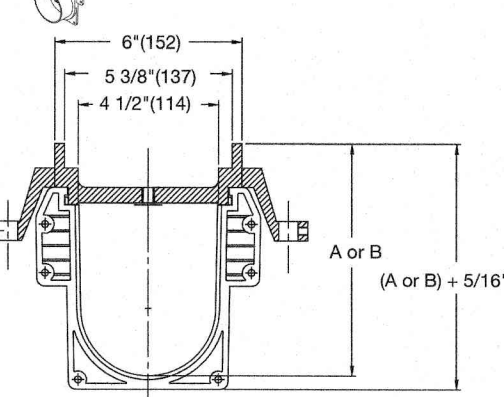
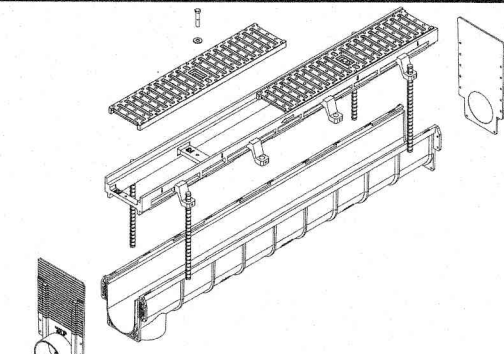
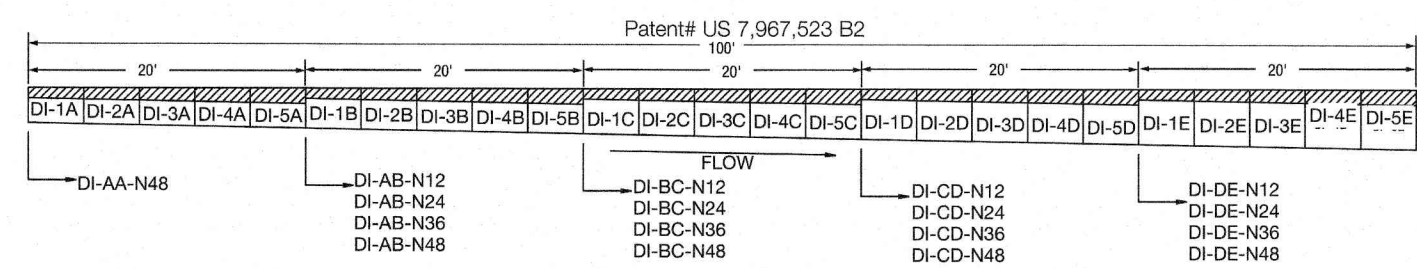


Table with 3 columns: Suffix, Grate Options Description, Class. Lists options like BK Stainless Steel Brickslot, BR Decorative Bronze, CI Ductile Iron, etc.

Table with 2 columns: Suffix, Description. Lists options like -B6 6'x24" Catch Basin, -B8T 8'x24" Catch Basin w/Trash Basket, etc.

Please refer to watts.com for BAA information on specific models.



Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service.



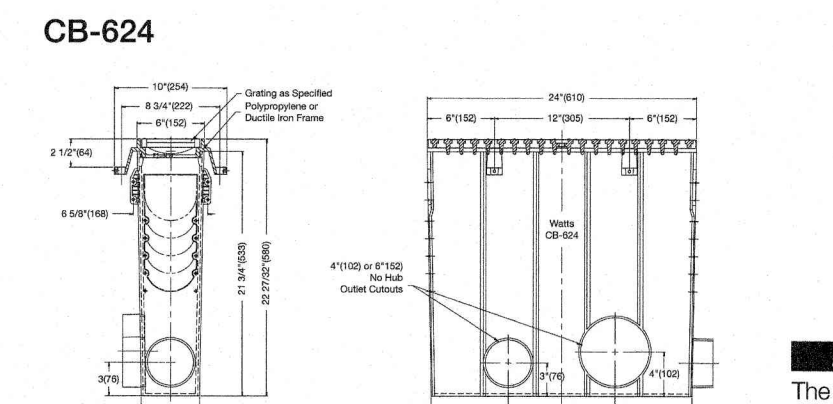
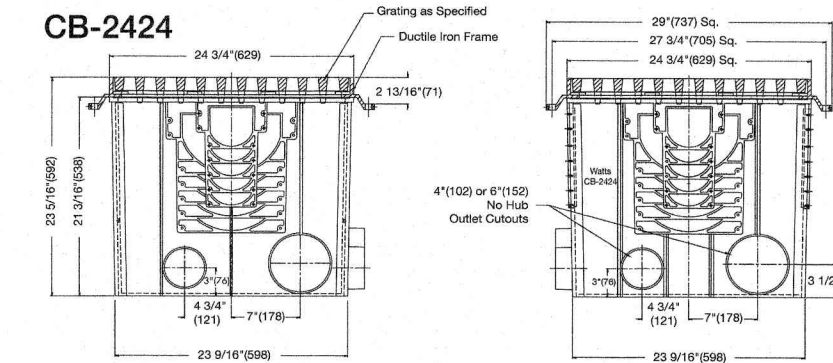
ES-WD-DeadLevel-D

For Commercial Applications

Job Name, Job Location, Engineer, Approval, Tag, Contractor, Approval, Contractor's P.O. No., Representative

CB-624/CB-2424 Dead Level® Trench Drain System Catch Basins

Watts CB-624/CB-2424 Catch Basin for Dead Level® Pre-Sloped Trench Drain System, 6'(152) or 24'(762) (specify) wide x 24'(762) deep, with UV stabilized tefco-filled polypropylene body with 4'(102) and 6'(152) no hub outlet connections, and polypropylene (P) wide only or ductile iron frame. Catch Basin shall be frame-anchored with (specify) grating and lockdowns to suit DIN Class (specify) load rating. Installation to be performed in accordance with manufacturer's recommendations.



Please refer to watts.com for BAA information on specific models.

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service.

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ES-WD-DeadLevel-CB 2025



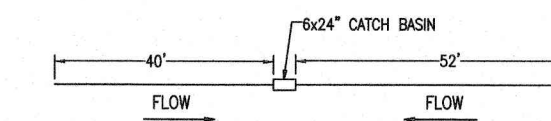
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Dead Level® D Dimensional Data

Table with columns: Part #, Configuration, Length, Weight (lbs.), Dim. A, Dim. B. Lists various trench drain parts and their dimensions.

How to Configure & Order Dead Level® Trench System

1. Sketch General Layout For each separate trench configuration show length(s), position of outlet(s), direction of flow(s), and position of catch basins (if required).



2. Specify Frame Ductile Iron or Polypropylene Ordering Code D or DX P

3. Specify Length in Feet (Do Not Include Catch Basins) Numeric

4. Specify Outlet Straight Run End Outlet Straight Run Center Outlet Other Configuration EO CO XO

5. Specify Grating Stainless Steel Brickslot Stainless Steel Decorative Bronze® Ductile Iron ADA Ductile Iron Galvanized Ductile Iron Galvanized Steel Slotted Galvanized Steel Perforated Galvanized Steel Slotted Stainless Steel Perforated Reinforced Galvanized Steel Slotted Reinforced Galvanized Steel Perforated Reinforced Stainless Steel Slotted Reinforced Stainless Steel Perforated Polypropylene BK BR DI ADA GDI SP RSG RGP RSS RSP PP

6. Specify Catch Basin (If Required) 6x6x24" Catch Basin B6 24x24x24" Catch Basin B24

7. Specify Frame Guards (If Required) Galvanized Steel FG Stainless Steel SS

8a. Configure Straight Run (EO or CO) EX P22-EO-RSS-B6-FS 22 = Trench Length in Feet EO = End Outlet RSS = Reinforced Stainless Steel Slotted Grates B6 = 6x24x24" Catch Basin FS = Stainless Steel Frame Guard

8b. Configure Special Run (XO) EX B64-XO-DI-B24 D = Ductile Iron Frame B64 = Trench Length in Feet XO = Other Configuration (Provide Sketch or Describe) DI = Ductile Iron B24 = 24x24x24" Catch Basin

NOTE The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

Watts logo

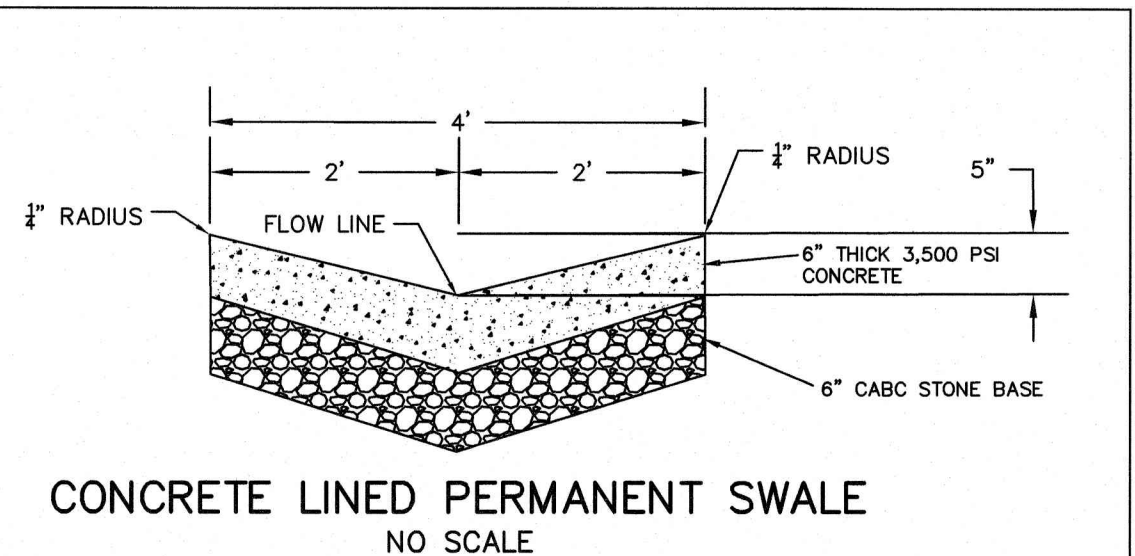
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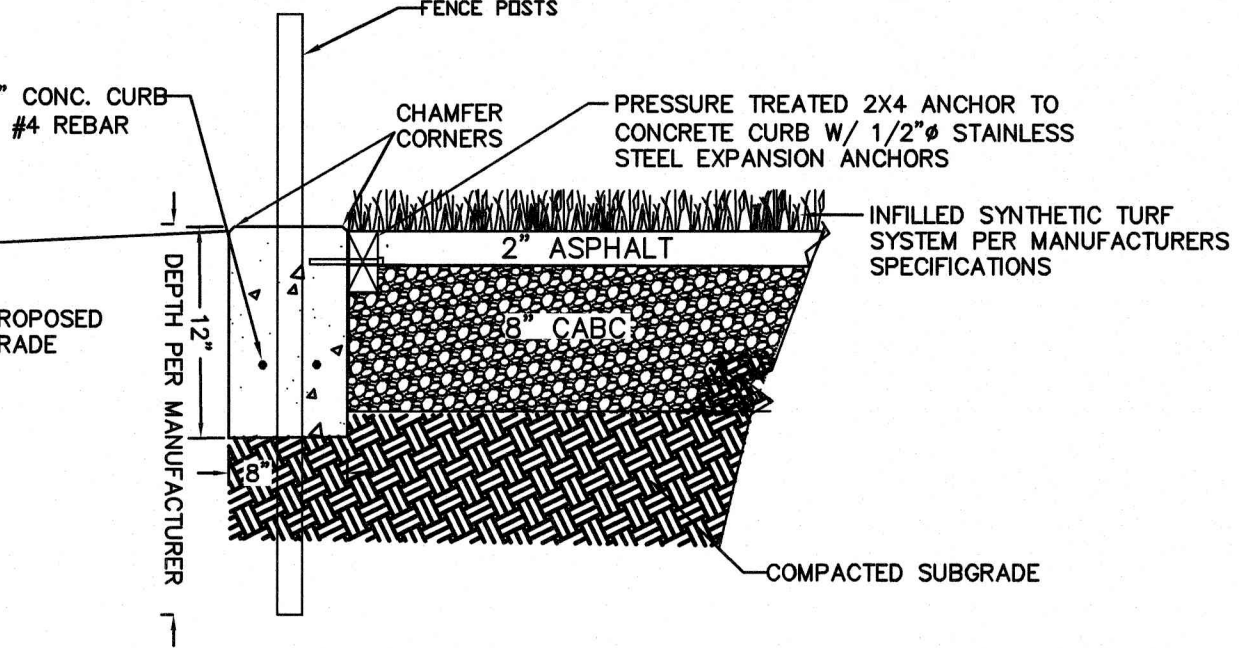
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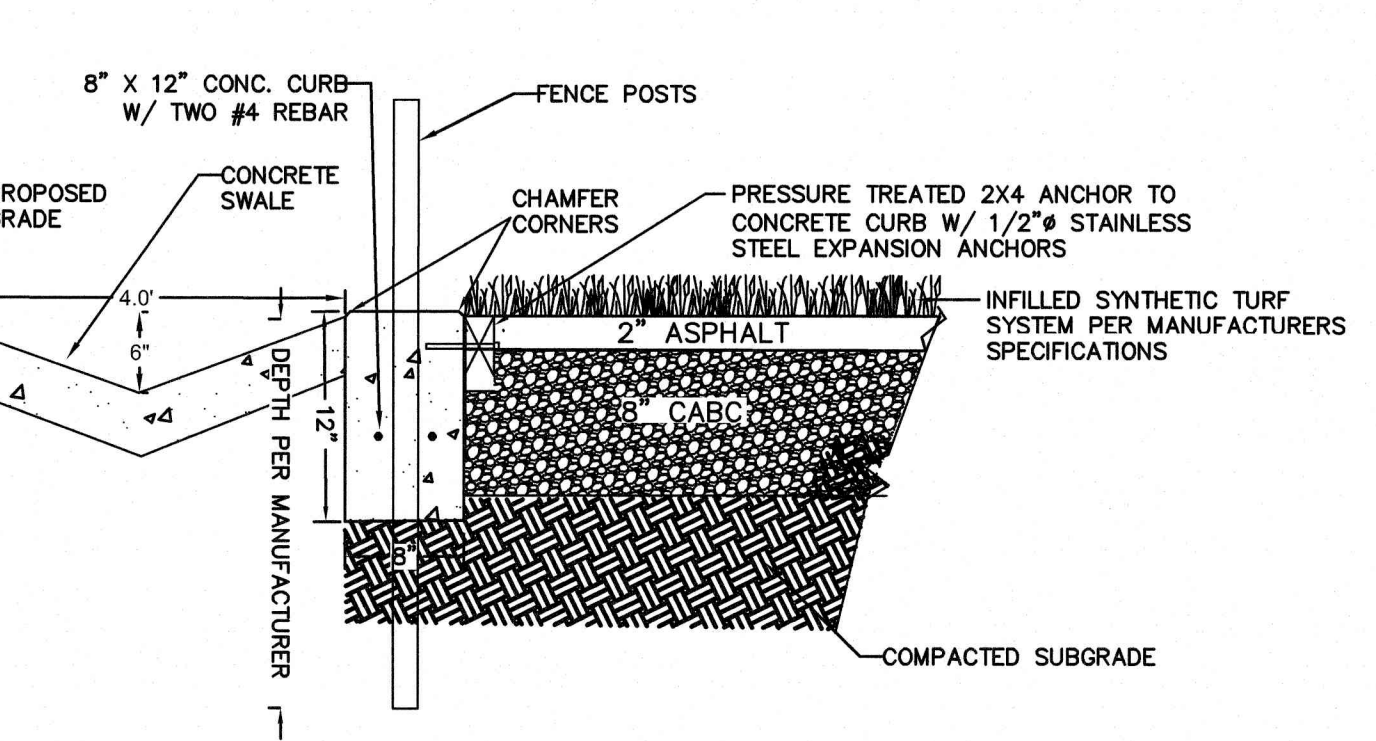
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CONCRETE LINED PERMANENT SWALE NO SCALE



OUTFIELD PERIMETER CONCRETE CURB NO SCALE



OUTFIELD PERIMETER CONCRETE CURB WITH CONCRETE SWALE NO SCALE

Table 6.14a Mulching Materials and Application Rates. Columns: Material, Rate Per Acre, Quality, Notes. Lists materials like Straw, Wood chips, Bark, Corn stalks, Sericea, etc.

Maintenance Inspect all mulches periodically, and after rainstorms to check for rill erosion, dislocation or failure. Where erosion is observed, apply additional mulch. If without occurs, repair the slope grade, reseed and reinstall mulch. Continue inspections until vegetation is firmly established.

SEEDING MAINTENANCE, PERMANENT SEEDING, TEMPORARY SEEDING, SEEDING SPECIFICATIONS. Includes fertilizer and mulch application rates for different seasons and conditions.

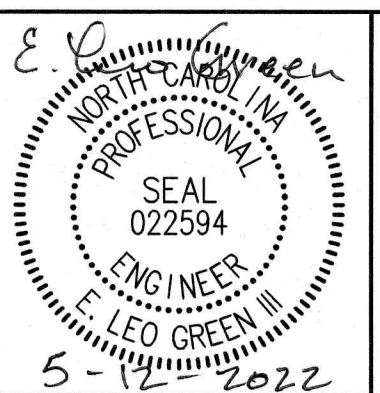
SEEDBED PREPARATION

- 1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
2. RIP THE ENTIRE AREA TO 6 INCHES DEPTH.
3. REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
4. APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE BELOW).
5. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
6. SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
8. INSPECT ALL SEEDBED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDING WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE EVER 60% DAMAGED, REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
9. CONSULT CONSERVATION INSPECTOR ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

EROSION CONTROL NOTES

- 1. STABILIZATION AREAS ACCORDING TO THE REQUIREMENTS OF THE NPDES GROUNDCOVER STABILIZATION TIMETABLE (SEE NEW STABILIZATION TIMEFRAMES).
2. SILT FENCE TO BE INSTALLED AS SHOWN ON THE PLANS OR AS DEEMED NECESSARY BY VISUAL OBSERVATION.

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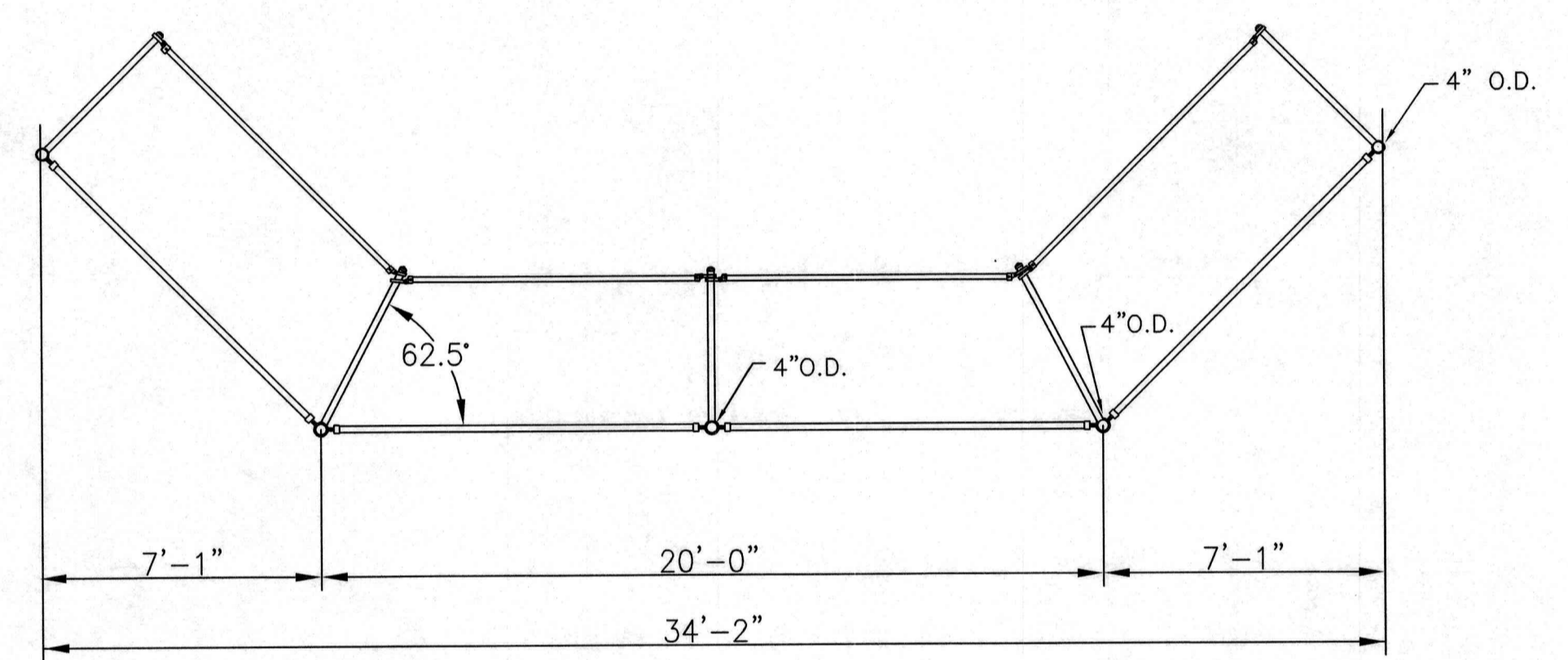
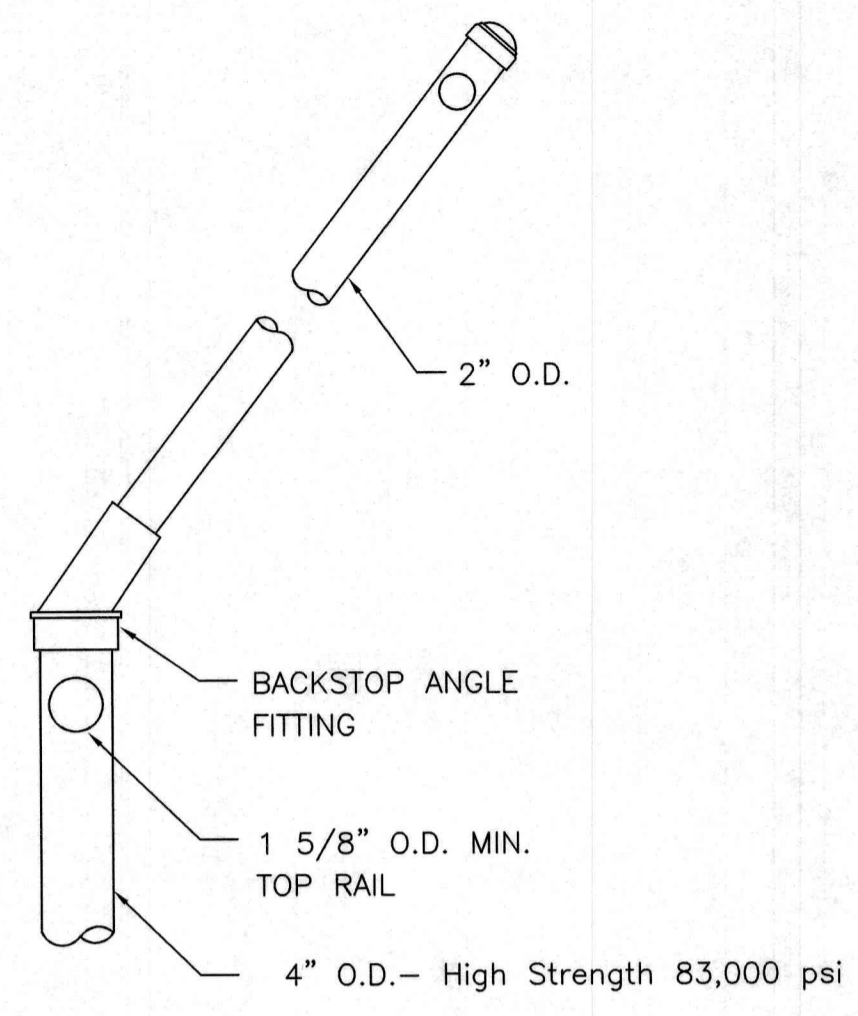
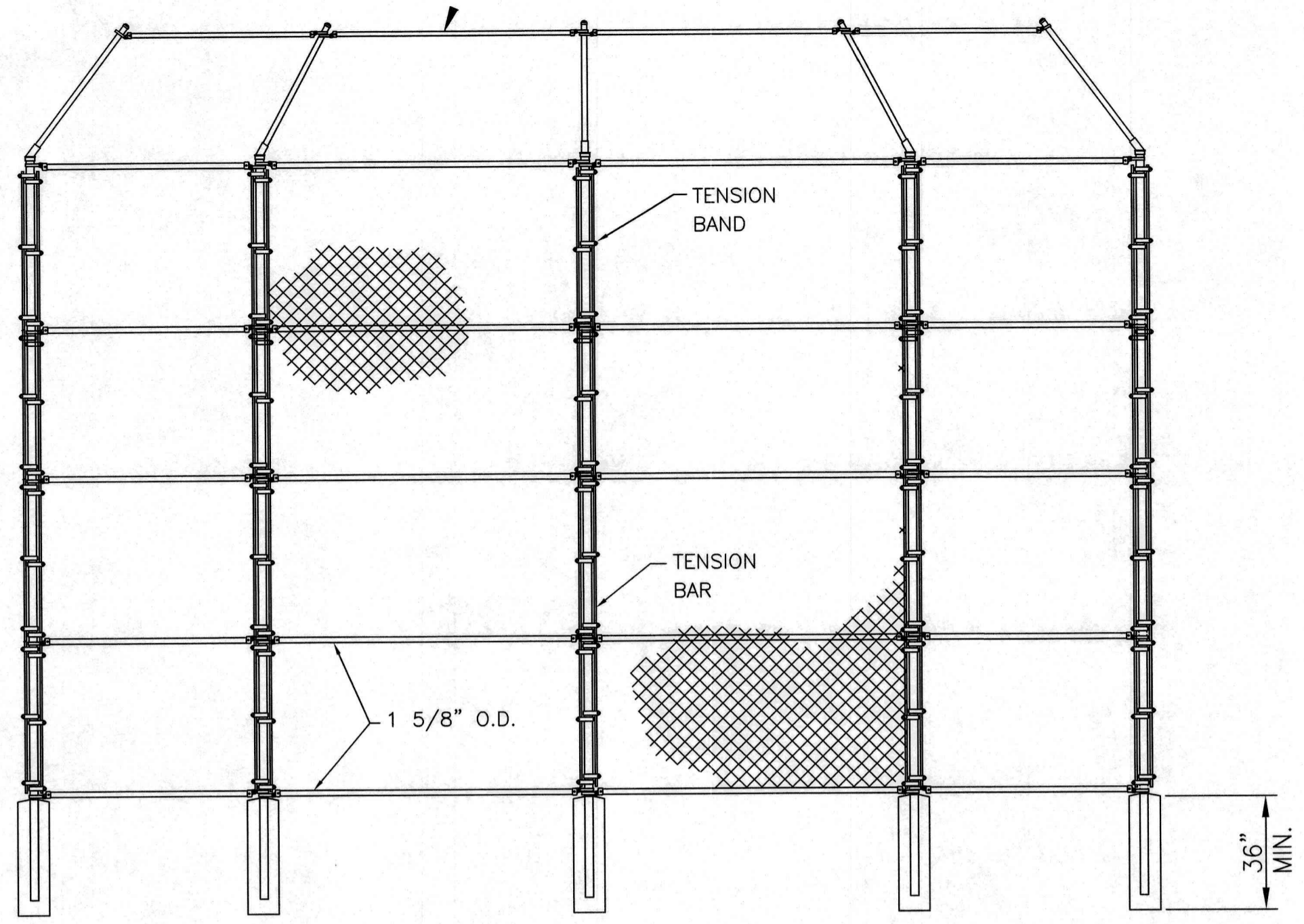


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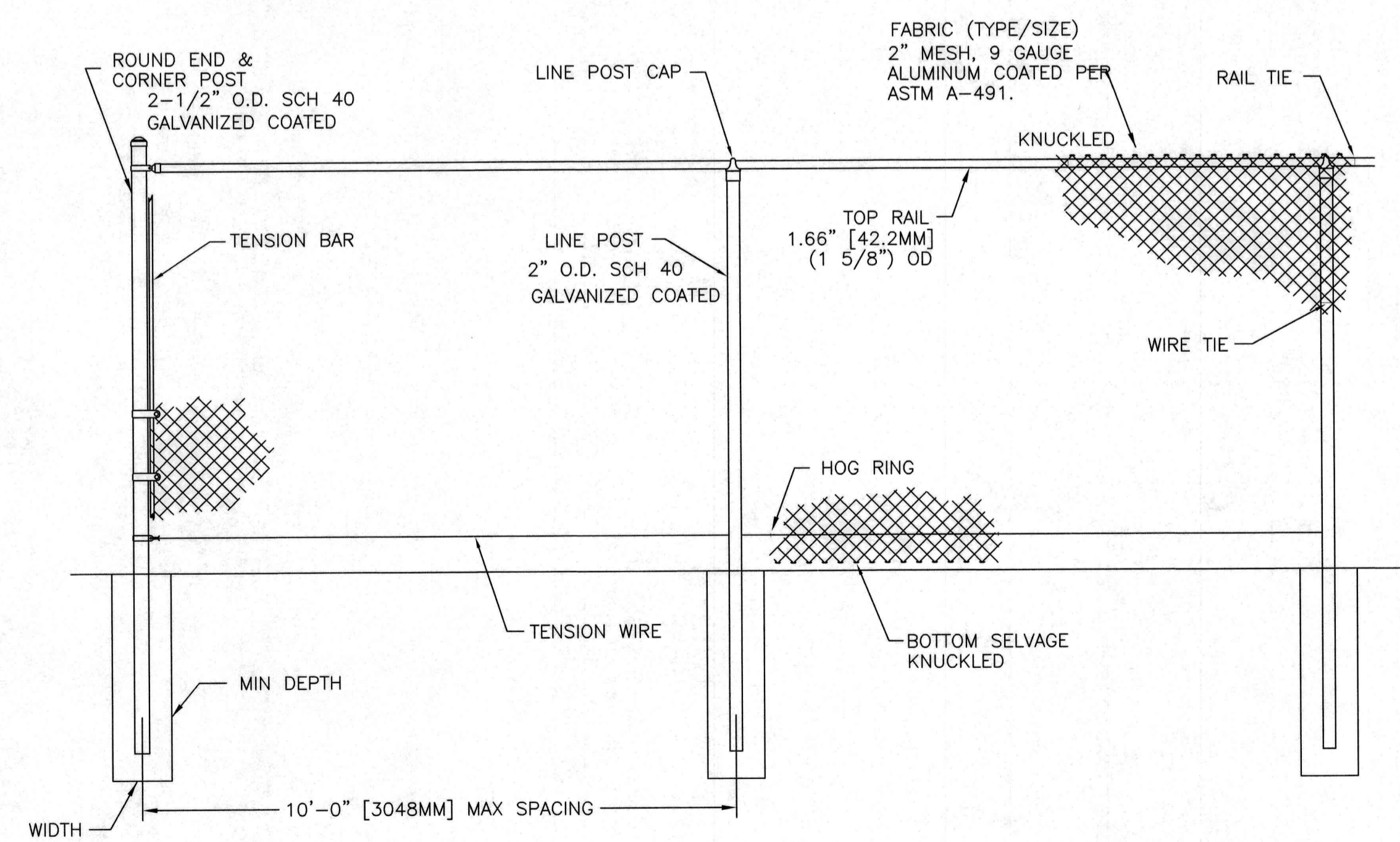
MIRACLE FIELD J. BURT GILLET ATHLETIC COMPLEX CITY OF WILSON NORTH CAROLINA

REVISION, DATE, BY, DATE: May 12, 2022. GRAPHIC SCALE AS SHOWN. CLIENT CODE: WILSO JOB NUMBER: 19-004 FIELD BOOK: XXXXX CADFILE: 19004-CV.dwg ASCII FILE: LAST MODIFIED: 12-May-22 MODIFIED BY: JM SHEET NO. 11 OF 13

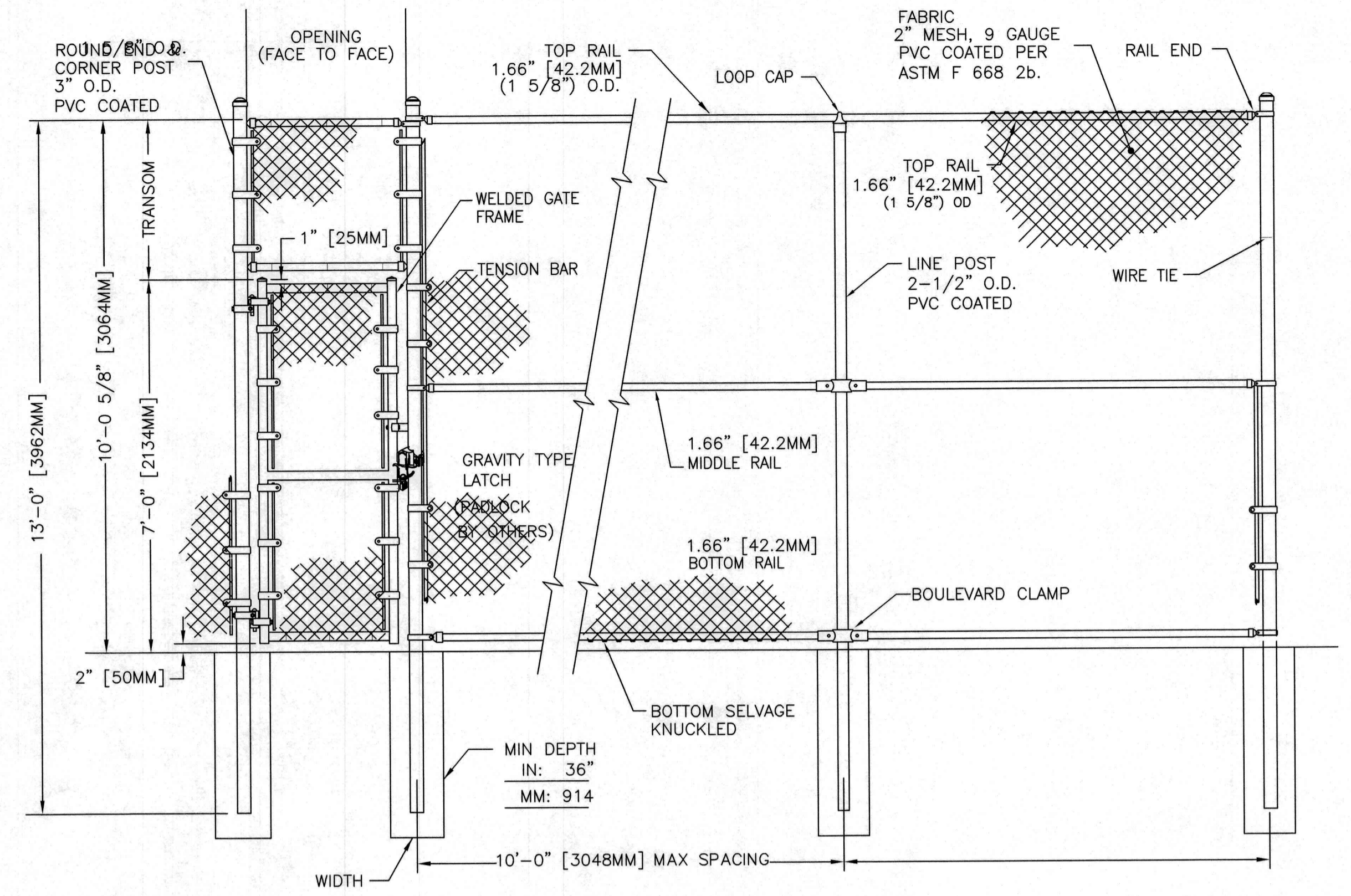




BACKSTOP DETAIL  
NO SCALE



DUGOUT FENCE DETAIL  
NO SCALE



CHAIN LINK FENCE DETAIL  
NO SCALE

**BBSBFP-12 12' Baseball Foul Pole**

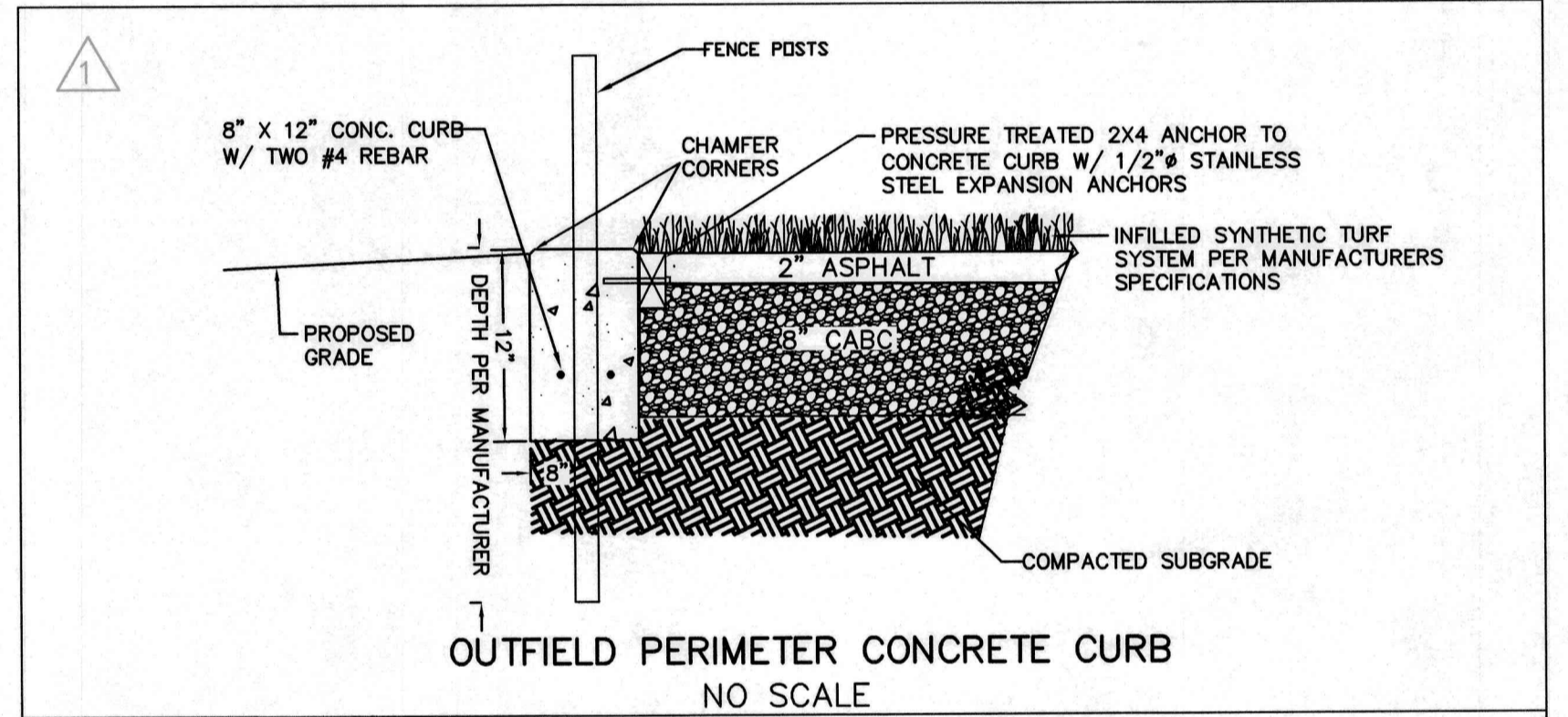
**FEATURES:**  
 > HEAVY DUTY 3-1/2" STEEL O.D. MAIN POST  
 > 18" WIDE X 6" HIGH WING PANEL  
 > WING PANEL IS ALL STEEL EXPANDED METAL  
 > TOUGH POWDER COATED YELLOW FINISH WITH GALVANIZED UNDER COAT  
 > PERMANENT OR SEMI-PERMANENT INSTALLATION WITH OPTIONAL GROUND SLEEVE (FPS-12)

**jaypro sports**

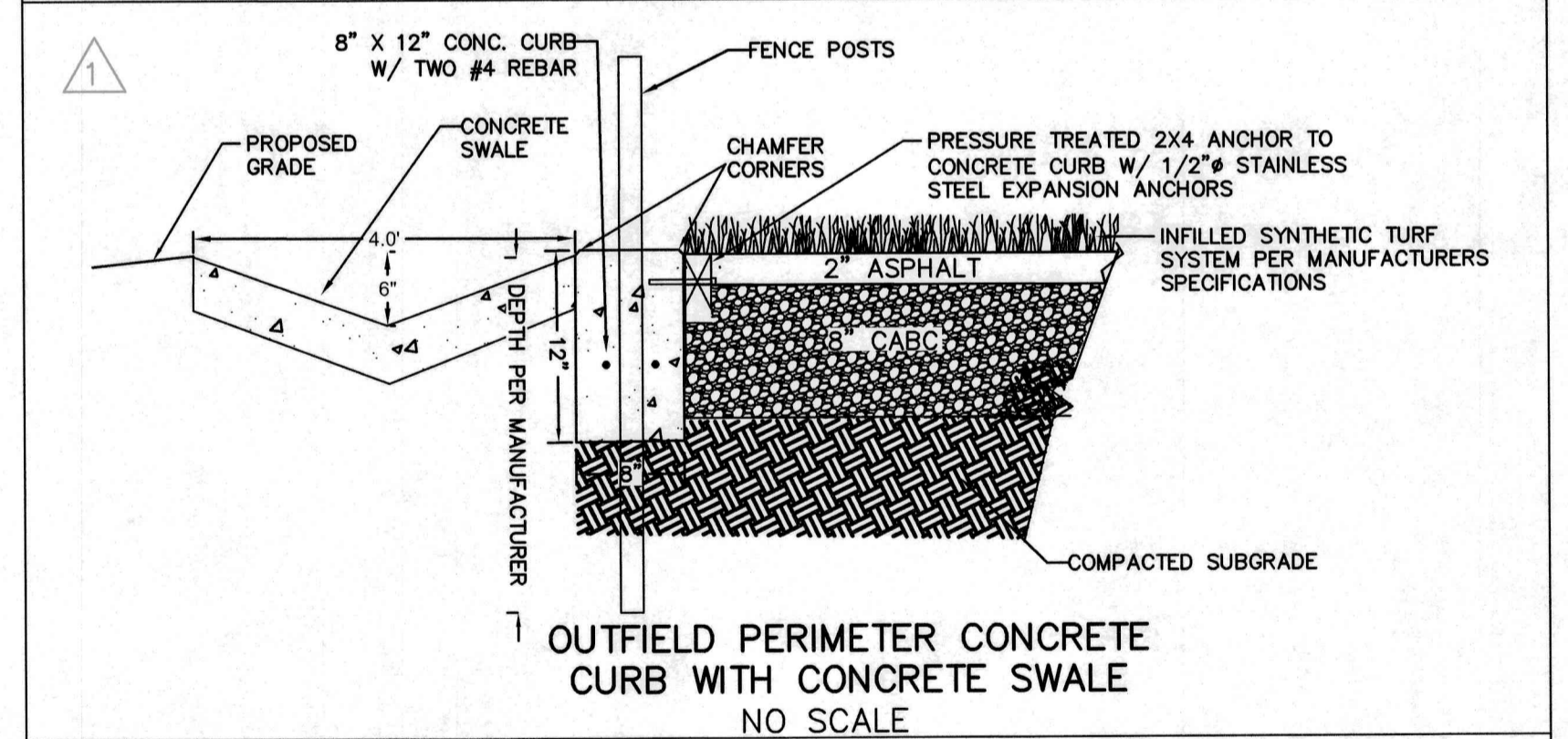
**BBSBFP-12**  
12' Baseball Foul Pole

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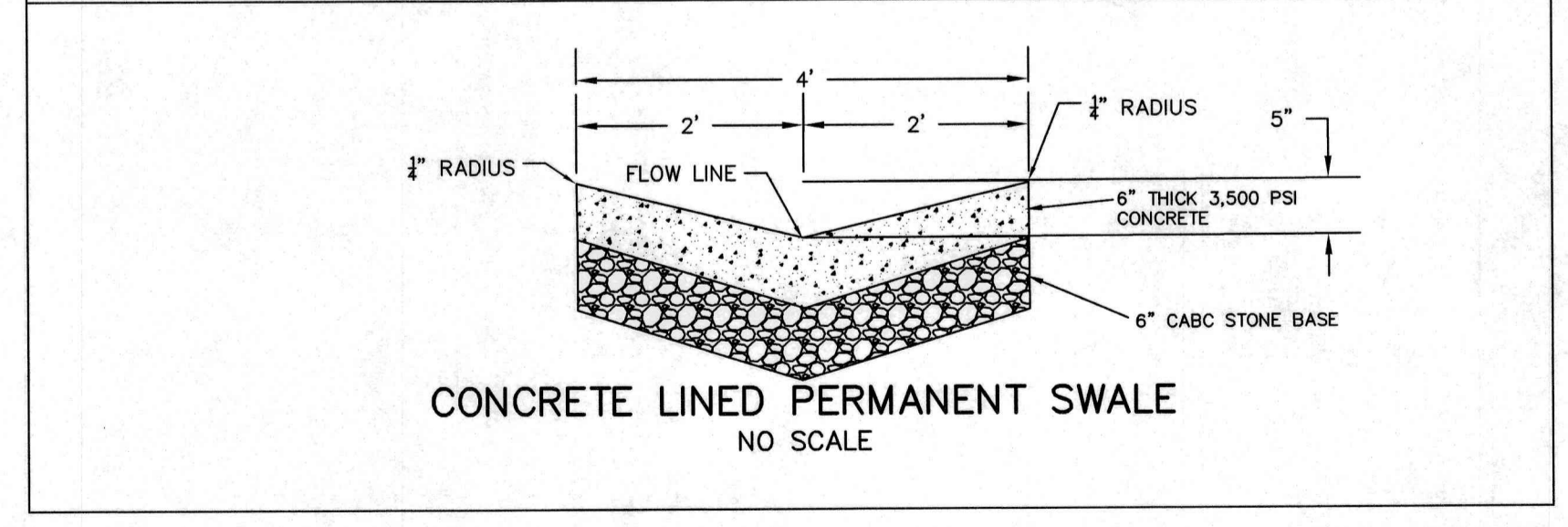
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OUTFIELD PERIMETER CONCRETE CURB  
NO SCALE

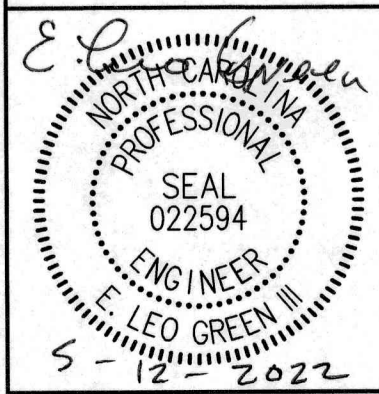


OUTFIELD PERIMETER CONCRETE CURB WITH CONCRETE SWALE  
NO SCALE



CONCRETE LINED PERMANENT SWALE  
NO SCALE

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**MIRACLE FIELD**  
**J. BURT GILLETTEATHLETIC COMPLEX**  
 CITY OF WILSON  
 NORTH CAROLINA

**DETAILS**

REVISION	DATE	BY	DATE: May 12, 2022
EC-NCDEQ LAND QUALITY	5/11/22	JM	<b>GRAPHIC SCALE</b>
BACKSTOP, CONCRETE SWALE, CURB DETAILS	5/11/22	JM	
			<b>AS SHOWN</b>
			CLIENT CODE: WILSO JOB NUMBER: 19-004 FIELD BOOK: XXXXX CAD FILE: 19004-CV.dwg ASCII FILE: LAST MODIFIED: 12-May-22 MODIFIED BY: JM
			<b>SHEET NO. D3 OF 13</b>