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CITY OF GREENVILLE

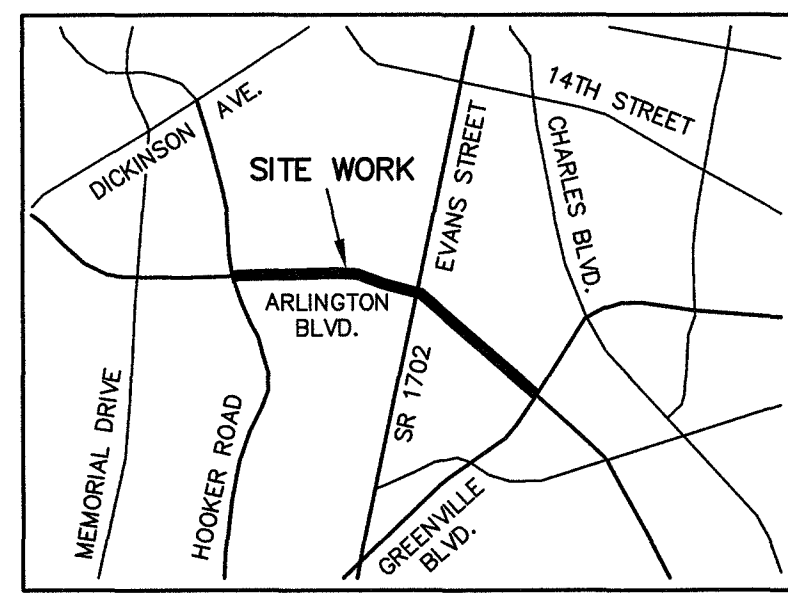
ARLINGTON BOULEVARD IMPROVEMENTS HOOKER ROAD TO GREENVILLE BOULEVARD

PROJECT NUMBER: PWD - 2019 - 005

TEG PROJECT NO. 20180161

ISSUE FOR BID
March 15, 2019

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VICINITY MAP
NOT TO SCALE

CIVIL SHEETS

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GENERAL NOTES:

1. THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF 1985 UNDERGROUND DAMAGE PREVENTION ACT (NORTH CAROLINA GENERAL STATUTES 887 CHAPTER 785, SENATE BILL 1018 ARTICLE 3, TO ASSIST THE CONTRACTOR AND UTILITY OWNERS IN MEETING THE REQUIREMENTS OF THIS LAW, THERE IS A "ONE CALL SYSTEM" CALLED "NO ONECALL." MOST MAJOR UTILITIES WITH UNDERGROUND FACILITIES IN THE STATE SUBSCRIBE TO THIS SERVICE. FOR CALLS ORIGINATING WITHIN NORTH CAROLINA, THE NC ONECALL TELEPHONE NUMBER IS 1-800-632-4949. FOR CALLS ORIGINATING OUTSIDE OF NORTH CAROLINA, THE NUMBER IS (919) 855-5700. THE CONTRACTOR SHALL INCLUDE THE COST OF ANY COORDINATION AND COOPERATION OF UTILITIES IN HIS BID. NCDOT IS NOT A MEMBER OF ONECALL. THE NUMBERS TO CALL FOR WRES AT INTERSECTIONS IS 830-4393. NCDOT REQUIRES 72 HOURS' NOTICE.
2. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS IN THE CITY OF GREENVILLE MANUAL OF STANDARD DESIGN AND DETAILS (MSDD) AVAILABLE ONLINE.
3. THIS PROJECT IS SUBJECT TO THE T&P PALMICO BUFFER RULES, TITLE 15A NCAC 02B.0259. STRUCTURE 109 DISCHARGES TO A "BLUE-LINE" STREAM AND HAS A REGULATORY BUFFER. WORK WITHIN THE BUFFER TO CONSTRUCT THE RIP RAP OUTLET IS PERMISSIBLE BUT THE WORK MUST BE PERFORMED WITH THE MINIMUM DISTURBANCE REQUIRED TO COMPLETE THE WORK AS SHOWN.
4. THE REPLACEMENT OF THE STORM DRAINAGE PIPE AT STRUCTURE 108 AND THE REGRADING AND RIP RAP APRON CONSTRUCTION IS SUBJECT TO THE CONDITIONS OF THE NATIONWIDE PERMIT 3 FOR THIS PROJECT. REFER TO THE PROJECT MANUAL.
5. CONTRACTOR SHALL NOTIFY CITY OF GREENVILLE PUBLIC WORKS A MINIMUM OF 48 HOURS PRIOR TO MAKING CONNECTIONS TO EXISTING STORM DRAINS LOCATED WITHIN THE PUBLIC RIGHT OF WAY OR STORM DRAINAGE EASEMENTS.
6. NCDOT MUST BE CONTACTED A MINIMUM OF 72 HOURS PRIOR TO COMMENCING ANY ACTION THAT MAY IMPACT THE NCDOT RIGHT-OF-WAY INCLUDING THE INTERSECTIONS OF EVANS AND GREENVILLE BOULEVARD.
7. CONTACT THE CITY OF GREENVILLE TRAFFIC ENGINEER A MINIMUM OF 72 HOURS PRIOR TO PERFORMING ANY WORK THAT MAY IMPACT ARLINGTON BOULEVARD TRAFFIC. COMPLY WITH THE REQUIREMENTS OF THE TRAFFIC CONTROL PLAN PREPARED BY DAVENPORT.
8. ALL SIDEWALKS, PEDESTRIAN WALKWAYS, AND GREENWAY TRAILS CONSTRUCTED OR REPAIRED UNDER THIS CONTRACT MUST WITHIN THE SCOPE OF THE WORK COMPLY WITH ANS I17.1:
 - a. LONGITUDINAL SLOPES ON RAMPS SHALL NOT EXCEED 1:12.
 - b. ALL RAMPS MUST BE PRECEDED AND MUST BE TERMINATED WITH A MINIMUM 5 FOOT BY 5 FOOT LANDING.
 - c. LANDINGS SHALL NOT EXCEED A 1:48 SLOPE IN ANY DIRECTION.
 - d. PROVIDE TRUNCATED DOMES AS A SIGNAL TO THE VISUALLY IMPAIRED AT ALL ENTRANCES OF PEDESTRIAN WAYS INTO VEHICULAR TRAVEL WAYS.
 - e. WALKING SURFACES OTHER THAN RAMPS OR LANDINGS SHALL NOT EXCEED 1:20 SLOPES IN THE DIRECTION OF TRAVEL AND SHALL NOT EXCEED 1:48 IN THE DIRECTION TRANSVERSE TO TRAVEL. WHERE THE DIRECTION OF TRAVEL MAY BE IN MULTIPLE DIRECTIONS APPLY THE 1:48 MAXIMUM SLOPE TO THE SURFACES.
 - f. NO PERMITTED ELEVATION CHANGES TO THE WALKING SURFACES IS PERMITTED. LIMIT CHANGES IN ELEVATION TO LESS THAN 1/8 INCH WITHIN ADA ACCESSIBLE PATHWAYS.
 - g. ALL SURFACES SHALL BE FIRM, STABLE, AND SLIP RESISTANT WITHIN ACCESSIBLE PATHWAYS.
9. THIS PROJECT DISTURBS MORE THAN 1 ACRE AND IS THUS SUBJECT TO THE CONDITIONS GIVEN IN THE EROSION AND SEDIMENTATION CONTROL PLAN APPROVAL. REFER TO THE PROJECT MANUAL.
10. CONTRACTOR SHALL MAINTAIN COMPREHENSIVE (DEPTH AND HORIZONTAL LOCATIONS) FIELD "AS-BUILTS" FOR ALL INSTALLATIONS AND SUBMIT TO THE ENGINEER.
11. ALL PERMITS AND FEES REQUIRED FOR CONSTRUCTION OF IMPROVEMENTS ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
12. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL UTILITY SERVICES, DRAINAGE, ETC., TO THIS AREA OR ADJACENT AREAS DURING DEMOLITION AND CONSTRUCTION. ALL DEBRIS FROM DEMOLITION ACTIVITIES SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY IN ACCORDANCE WITH ALL AGENCIES HAVING JURISDICTION.

DEMOLITION NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR CLEAN OUT OF EXISTING STORM DRAINAGE LOCATED WITHIN THE CONSTRUCTION LIMITS.
2. ALL CONCRETE AND ASPHALT REMOVED SHALL BE SAW CUT OR REMOVED TO NEXT EXPANSION JOINT.
3. PROVIDE TREE PROTECTION FENCING TO ALL EXISTING TREES WITHIN 10' OF CONSTRUCTION LIMITS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL STORM WATER DRAINAGE OUTFALLS DURING CONSTRUCTION. G.C. SHALL COORDINATE CONSTRUCTION OF PROPOSED MAIN DRAINAGE OUTFALL LINES PRIOR TO DEMOLITION OF EXISTING LINES.
5. NEW STORM DRAINAGE SHALL BE INSTALLED PRIOR TO DEMOLITION OF EXISTING STORM DRAINAGE, TO THE EXTENT POSSIBLE, TO PREVENT FLOODING OF EX. FACILITIES.
6. STORM DRAINAGE PIPING CANNOT BE INSTALLED IN AN ACTIVE FLOW. FLOW THROUGH THE EXISTING 48" CMP IS NEARLY CONTINUOUS. CONTRACTOR MUST COMPLETE THE NEW CULVERT PRIOR TO DEMOLISHING FACILITIES OR PROVIDE TEMPORARY PUMPING TO BYPASS EXCAVATION AREAS UNTIL WORK IS COMPLETED AND READY FOR NON-EROSIVE SERVICE.
7. LOCATION OF WATER AND SEWER SERVICES ARE APPROXIMATE AND SHALL BE VERIFIED PRIOR TO ANY EXCAVATION OCCURRING ON SITE.
8. CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS FROM DAMAGE DURING CONSTRUCTION AND SHALL RESTORE ANY DAMAGED IMPROVEMENTS AT THE END OF CONSTRUCTION.

GRADING NOTES:

1. ALL CULVERT CLEANOUT MUST BE DONE SUCH THAT THE SEDIMENT IS EITHER EXTRACTED OR BLOWN UPSTREAM FOR CLEANUP. UNDER NO CIRCUMSTANCES SHALL SEDIMENT BE BLOWN DOWNSTREAM.
2. GRADING CONTRACTOR SHALL TEMPORARY SEED AND MULCH ALL DISTURBED AREAS IN ACCORDANCE WITH THE SPECIFICATIONS WITHIN 14 DAYS OF COMPLETION OF GRADING WORK. UPON COMPLETION OF THE PROJECT, THE GENERAL CONTRACTOR SHALL INSTALL PERMANENT SEEDING AS OUTLINED IN THE SPECIFICATIONS. ALL DRAINAGE PIPES SHALL BE CLEANED BY THE GENERAL CONTRACTOR TO REMOVE ANY SEDIMENTS THAT HAVE ACCUMULATED.
3. ALL EXCESS TOPSOIL STRIP MATERIAL TO BE HAULLED OFF-SITE AND DISPOSED OF AT AN APPROVED SITE.
4. ALL PLANTING AREAS SHALL BE BACKFILLED WITH TOPSOIL AND RAKED DOWN, REMOVING ALL CLODS AND ROOTS, AND LEFT READY FOR SEEDING AND PLANTING.

EROSION NOTES:

1. SEED AND MULCH OR OTHERWISE PROVIDE GROUND COVER DEVICES OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION FOR ALL EXPOSED SLOPES WITHIN 14 DAYS OF COMPLETING ANY PHASE OF GRADING.
2. CONTRACTOR SHALL INSPECT AND MAINTAIN AS NEEDED ALL EROSION CONTROL DEVICES ON A WEEKLY BASIS AND AFTER EACH 0.5" OVER 24-HOUR PERIOD RAINFALL EVENT.
3. THE CONTRACTOR MAY BE REQUIRED TO PROVIDE ADDITIONAL EROSION MEASURES SHOULD THE PLAN OR ITS IMPLEMENTATION PROVE TO BE INADEQUATE.
4. PROVIDE INLET SEDIMENT PROTECTION USING INLET SEDIMENT BAG AT CATCH BASINS AND DROP INLETS ONCE CURBING AND STONE IS INSTALLED. PROTECTION SHOULD BE UTILIZED UNTIL SITE IS STABILIZED.
5. INSTALL INLET PROTECTION AROUND ALL CATCH BASINS, DROP INLETS OR INLET STRUCTURES WITHIN THE CONSTRUCTION/DISTURBED AREA.
6. CONTRACTOR SHALL PROVIDE MEASURES TO CLEAN ANY SOILS OR SEDIMENT THAT IS TRACKED, PLACED, OR FLOWS ONTO EXISTING PAVEMENT SURFACES THAT ARE TO REMAIN.

NPDES INSPECTION REQUIREMENTS:

1. MUST KEEP A RAIN GAUGE ON THE PROJECT SITE.
2. DEDICATED DEMOLITION AND OTHER WASTE AREAS AND EARTHEN MATERIAL STOCKPILES MUST BE LOCATED AT LEAST 50' FROM STORM DRAINS OR STREAMS UNLESS NO ALTERNATIVE IS FEASIBLE.
3. MUST INSPECT ALL EROSION AND SEDIMENT CONTROL MEASURES AT LEAST ONCE A WEEK AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN A HALF-INCH (DURING A 24 HOUR PERIOD). MUST TAKE IMMEDIATE CORRECTIVE ACTION FOR ANY DEVICE FAILURE.
4. MUST INSPECT ALL OUTLETS WHERE STORMWATER RUNOFF LEAVES THE SITE AND EVALUATE THE EFFECT ON NEARBY STREAMS OR WETLANDS.
5. CORRECTIVE ACTION MUST BE TAKEN IF SEDIMENT IS DEPOSITED OFF-SITE OR INTO A STREAM OR WETLAND, OR CAUSES A VISIBLE INCREASE IN TURBIDITY OF ANY WATERBODY.
6. MUST KEEP RECORDS OF THESE INSPECTIONS AND ANY CORRECTIVE ACTIONS TAKEN.

CONSTRUCTION SEQUENCE

1. OBTAIN AND POST A COPY OF THE CERTIFICATE OF EROSION AND SEDIMENT CONTROL PLAN APPROVAL. NOTIFY NCEDE, WASHINGTON REGIONAL OFFICE AT 252-946-6481 PRIOR TO COMMENCING CONSTRUCTION. A PRECONSTRUCTION MEETING MAY BE REQUIRED AT THE DISCRETION OF NCEDE.
2. DISTURB LAND ONLY AS NECESSARY TO INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES. INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES AS NEEDED OR AS DIRECTED BY THE ENGINEER.
3. PERFORM SITE DEMOLITION, IN ACCORDANCE WITH PLANS, INCLUDING REMOVAL OF EXISTING PAVEMENT, CURB AND GUTTER, SIDEWALK, AGGREGATE BASE COURSE, STORM DRAINAGE STRUCTURES, TREES, SHRUBS, ETC. FROM THE SITE AND DISPOSE OF DEBRIS AT AN APPROVED SITE. PRIOR TO AND DURING DEMOLITION PHASE, INSTALL APPROPRIATE EROSION AND SEDIMENTATION CONTROL MEASURES.
4. TRANSITION EROSION CONTROL MEASURES FROM DEMOLITION PHASE TO CONSTRUCTION PHASE AND INSTALL MEASURES IN APPROPRIATE AREAS.
5. BEGIN CONSTRUCTION OF ROADWAY INCLUDING AGGREGATE STONE BASE, BINDER AND SURFACE COURSE OF ASPHALT, CURB AND GUTTER, SIDEWALKS, AND STORM DRAINAGE STRUCTURES.
6. INSTALL DRAINAGE INLETS AND STORM DRAINAGE PIPING WITH TEMPORARY INLET PROTECTION.
7. MAINTAIN EROSION AND SEDIMENTATION MEASURES DURING CONSTRUCTION. CHECK THE MEASURES FOR FAILURE AND AVAILABLE SEDIMENT STORAGE AFTER EACH SIGNIFICANT RAINFALL EVENT.
8. COMPLETE CONSTRUCTION OF ALL STORM DRAINAGE IMPROVEMENTS.
9. COMPLETE CONSTRUCTION OF ROADWAY AREAS, INCLUDING THE PLACEMENT OF THE AGGREGATE BASE COURSE, CURB AND GUTTER INSTALLATION AND PLACEMENT OF ASPHALT.
10. MULCH AND SEED ALL DISTURBED AREAS. ANY SLOPES LEFT EXPOSED WILL WITHIN 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER, DEVICES, OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION.
11. COMPLETE CONSTRUCTION OF ALL PROPOSED IMPROVEMENTS.
12. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES ONCE PERMANENT VEGETATION IS ESTABLISHED.
13. TIME OF EXPOSURE IS APPROXIMATELY 6 MONTHS OR UNTIL COMPLETION AND STABILIZATION OF THE SITE. CONTRACTOR SHALL PREPARE FOR MAINTENANCE OF THE SITE EROSION AND SEDIMENTATION MEASURES APPROPRIATE FOR THE EXPECTED DURATION.

MAINTENANCE PLAN

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND INTEGRITY FOLLOWING EVERY 0.5" OVER 24-HOUR PERIOD RAINFALL EVENT, BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
2. SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES 0.5 FT DEEP AT THE FENCE. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
3. EROSION CONTROL MATTING SHALL BE MAINTAINED UNTIL ALL WORK IS COMPLETE. AREAS SHALL BE RESEEDED AND MATTING SHALL BE REPLACED AS NEEDED.
4. ALL SEEDED AREAS WILL BE FERTILIZED, RE-SEED AS NECESSARY AND MULCHED ACCORDING TO SPECIFICATION IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.
5. EMPTY INLET SEDIMENT BAG IF MORE THAN HALF FILLED WITH SEDIMENT AND DEBRIS, OR AS DIRECTED, REPLACE BAG IF TORN OR PUNCTURED TO >1/2" DIAMETER ON LOWER HALF OF BAG.



GROUND STABILIZATION		
SITE AREA DESCRIPTION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTIONS
* PERIMETER DIKES, SWALES, DITCHES AND 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 NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
* SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH
* ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERIMETERS AND HOW ZONES)

TEMPORARY SEEDING

DATE	APR 15-AUG 14	GERMAN MILLET	50 LBS/ACRE
DATE	AUG 15-APR 14	RYE (GRAIN)	50 LBS/ACRE
YEAR ROUND	FERTILIZER 10-20-20 ANALYSIS	400 LBS/ACRE	

VEGETATIVE PLAN:
VEGETATIVE COVER SHALL BE IN ACCORDANCE WITH THE SEEDING SCHEDULE AND THE FOLLOWING SPECIFICATION SECTIONS:
SECTION 02110 SITE CLEARING
SECTION 02120 EROSION & ROLLUTION CONTROL
SECTION 02228 CLEAN-UP & SEEDING

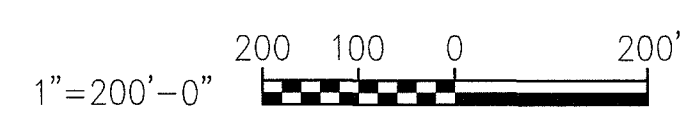
SEEDING AND MULCHING

MARCH 1 - AUGUST 31	ALL ROADWAY AREAS	SEPTEMBER 1 - FEBRUARY 28
50# TALL FESCUE		50# TALL FESCUE
10# CENTIPEDE		10# CENTIPEDE
25# BERMUDAGRASS (HULLED)		35# BERMUDAGRASS (HULLED)
500# FERTILIZER		500# FERTILIZER
4000# LIMESTONE		4000# LIMESTONE
MARCH 1 - AUGUST 31	WATER AND BORROW LOCATIONS	SEPTEMBER 1 - FEBRUARY 28
75# TALL FESCUE		35# TALL FESCUE
25# BERMUDAGRASS (HULLED)		500# BERMUDAGRASS (HULLED)
500# FERTILIZER		4000# FERTILIZER
4000# LIMESTONE		4000# LIMESTONE

NOTE: 50# OF BAHIA GRASS MAY BE SUBSTITUTED FOR EITHER CENTIPEDE OR BERMUDAGRASS ONLY UPON ENGINEER'S REQUEST.

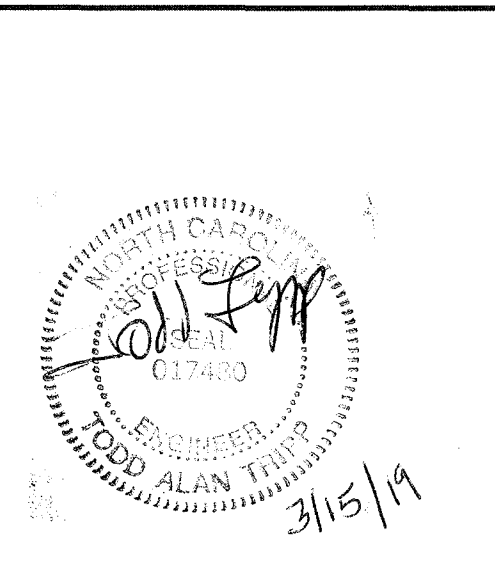
SEED BED PREPARATION NOTES

1. SCARIFY SOIL TO A DEPTH OF THREE (3) INCHES AND WORK INTO A SATISFACTORY SEED BED BY DISKING, USE OF CULTIPACKERS, HARROWS, DRAGS AND OTHER APPROVED MEANS.
2. PREPARATION OUTLINED ABOVE SHALL NOT BE DONE WHEN THE SOIL IS FROZEN, WET OR OTHERWISE IN AN UNFAVORABLE CONDITION.
3. BEGIN AND COMPLETE SEEDING OPERATIONS AS OUTLINED AS SOON AS POSSIBLE AFTER FINAL GRADING IS COMPLETED, BUT IN NO EVENT LATER THAN 14 CALENDAR DAYS AFTER COMPLETION OF FINAL GRADING.
4. SEEDING AND MULCHING OPERATIONS SHALL NOT BEGIN UNTIL ELECTRICAL SERVICE HAS BEEN INSTALLED WITHIN THE PROJECT, UNLESS DIRECTED BY THE ARCHITECT/ENGINEER.
5. DISTRIBUTE LIME AND FERTILIZER, UNIFORMLY OVER SEED BED AND HARROW, RAKE, OR OTHERWISE WORK SAME INTO SEED BEDS.
6. DISTRIBUTE SEED UNIFORMLY OVER SEED BED. COVER SEED LIGHTLY AFTER SEEDING.
7. NO LIME, FERTILIZER, OR SEED SHALL BE APPLIED DURING A STRONG WIND, WHEN SOIL IS WET OR OTHERWISE UNWORKABLE. SHOULD RAIN FOLLOW SEEDING BEFORE ROLLING IS BEGUN, THE BED SHALL NOT BE ROLLED.



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REV	DATE	DESCRIPTION	CHK	
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A	2/28/19	ISSUE FOR REVIEW	SLJ	TAT
B	3/15/19	ISSUE FOR BID	SLJ	TAT

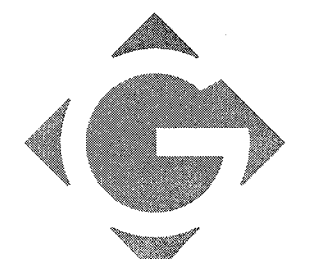
PROJECT NO. 20180161

CLIENT PROJECT NO. -

PROJECT TITLE
**CITY OF GREENVILLE
ARLINGTON BOULEVARD
IMPROVEMENTS**

DRAWING TITLE
COMPOSITE PLAN

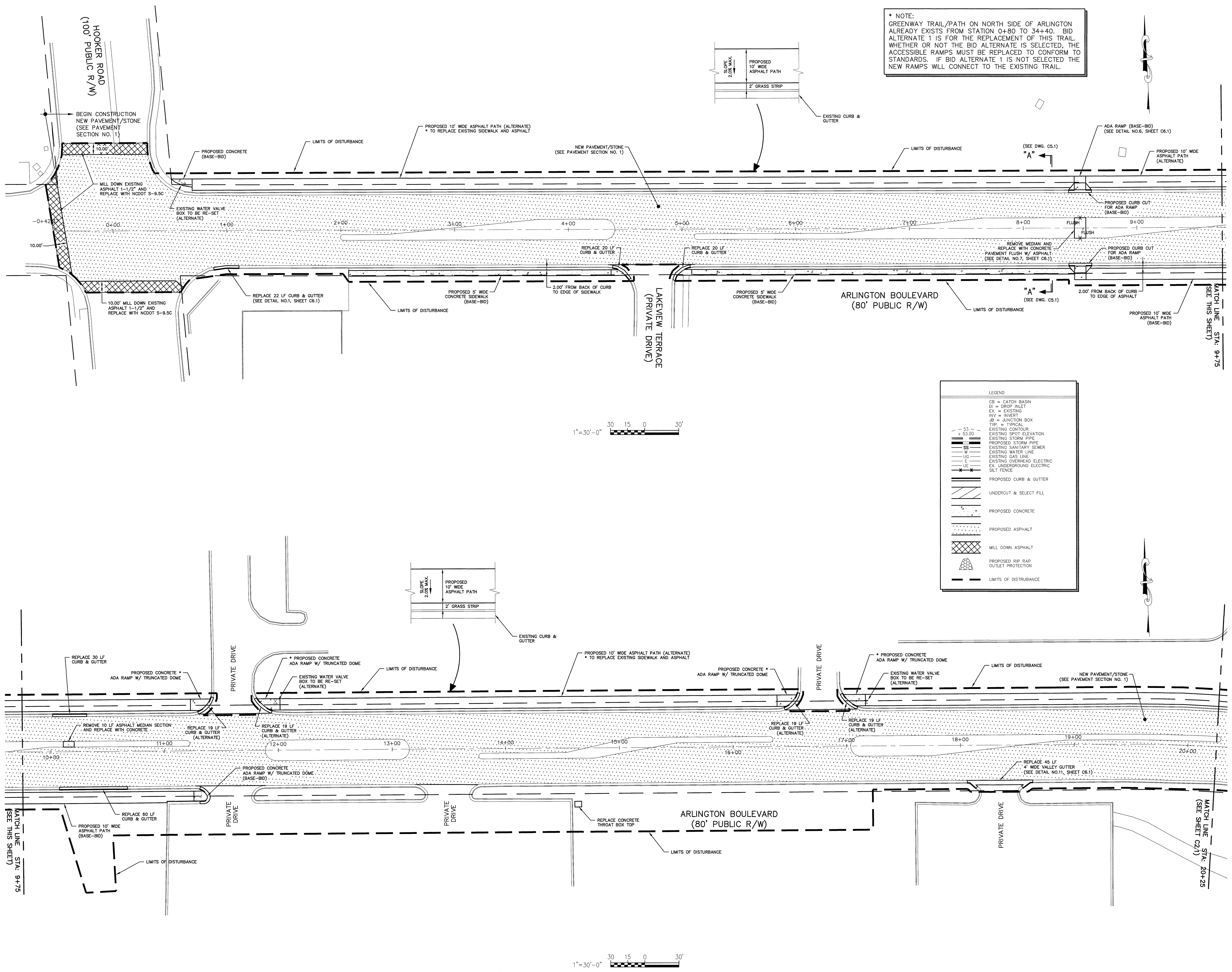
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Greenville
NORTH CAROLINA



* NOTE:
GREENWAY TRAIL/PATH ON NORTH SIDE OF ARLINGTON
ALREADY EXISTS FROM STATION 0+80 TO 34+40. BID
ALTERNATE 1 IS FOR THE REPLACEMENT OF THIS TRAIL.
WHETHER OR NOT THE BID ALTERNATE IS SELECTED, THE
ACCESSIBLE RAMPS MUST BE REPLACED TO CONFORM TO
STANDARDS. IF BID ALTERNATE 1 IS NOT SELECTED THE
NEW RAMPS WILL CONNECT TO THE EXISTING TRAIL.



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REG PROJECT NO.	20180161
CLIENT PROJECT NO.	
PROJECT TITLE	CITY OF GREENVILLE ARLINGTON BOULEVARD IMPROVEMENTS
DRAWING TITLE	SITE PLAN
DRAWING NO.	C1.1

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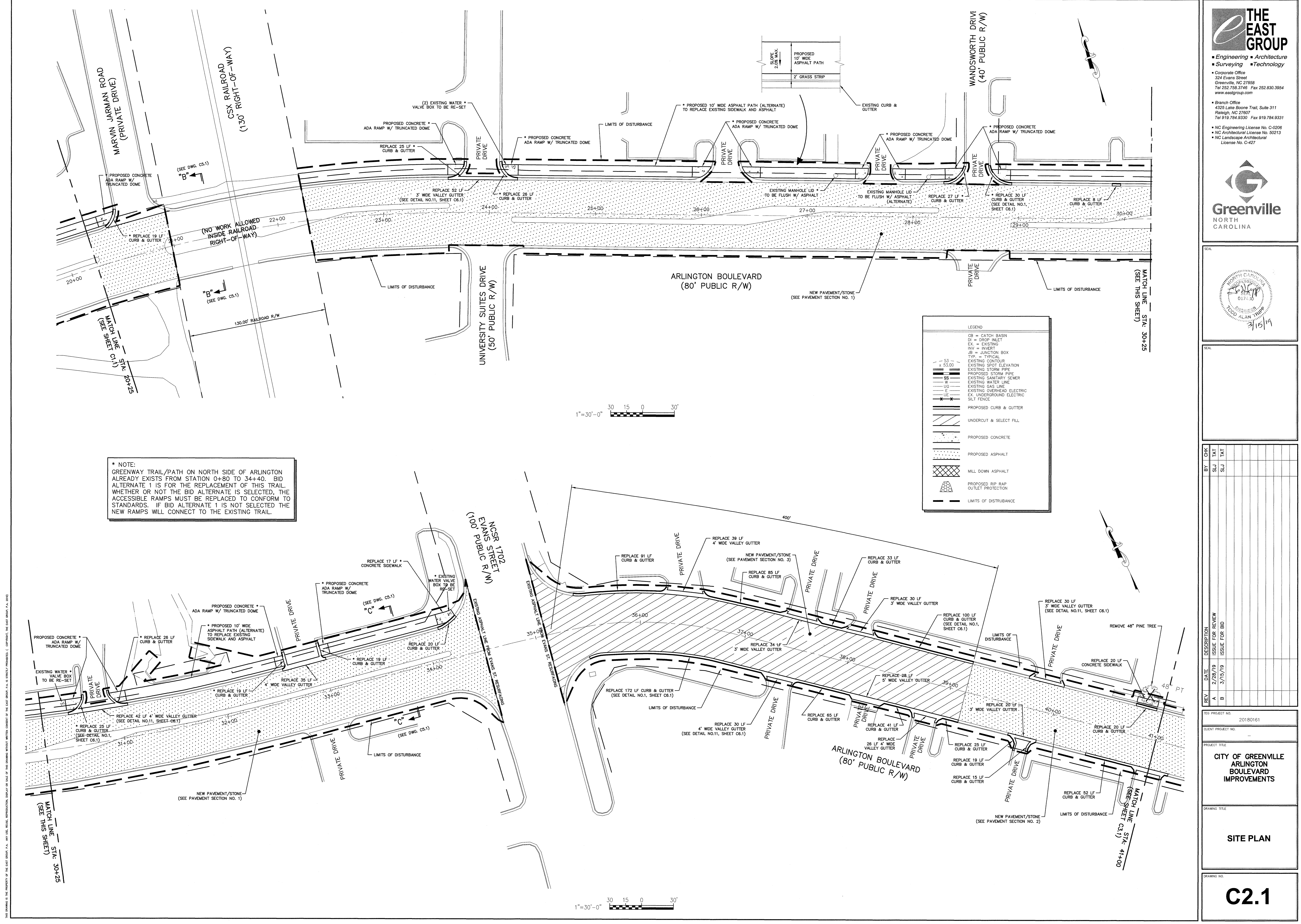
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SEG PROJECT NO: 20180161
 CLIENT PROJECT NO: -

PROJECT TITLE
**CITY OF GREENVILLE
 ARLINGTON BOULEVARD
 IMPROVEMENTS**

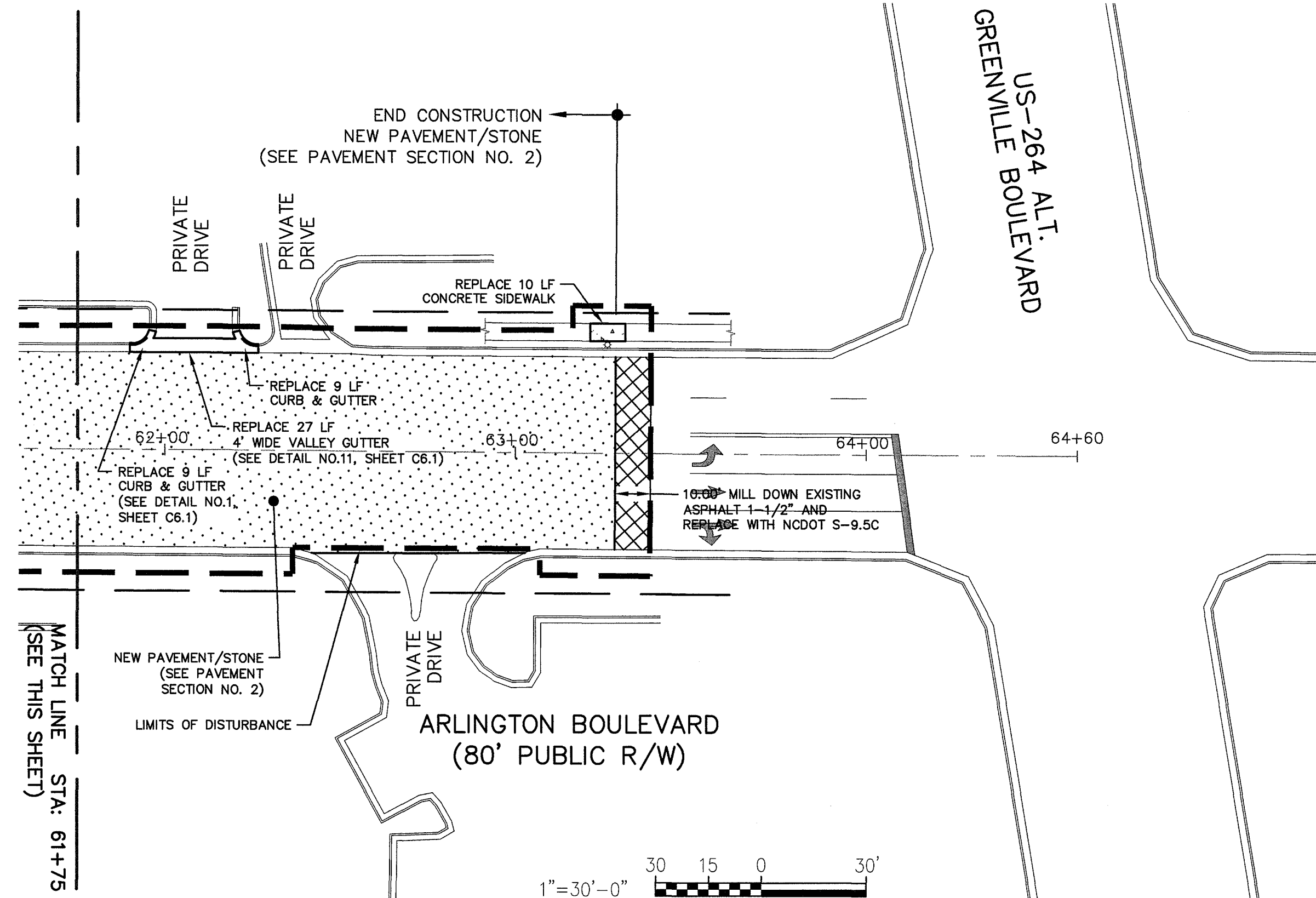
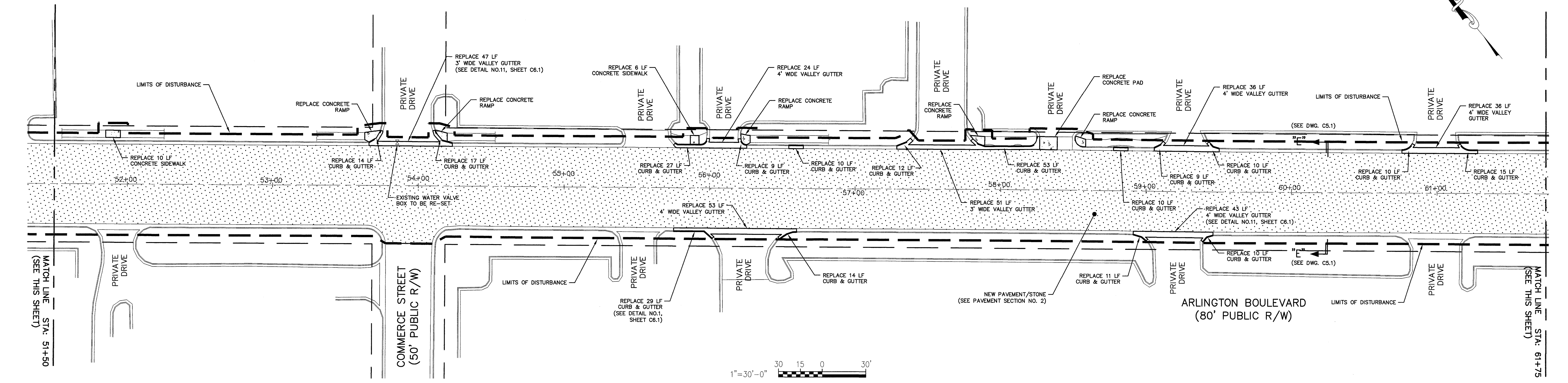
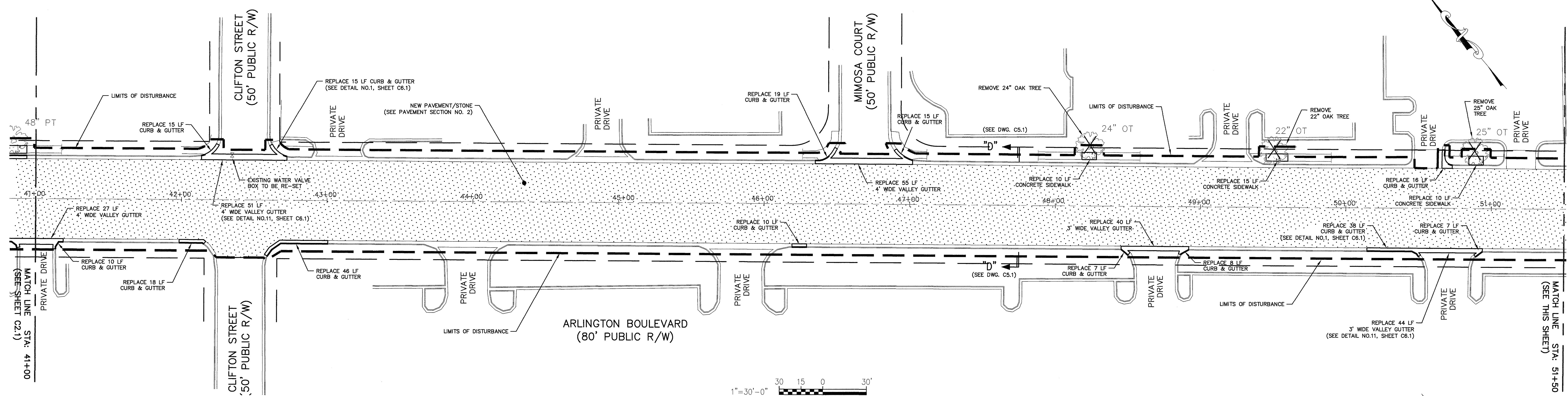
DRAWING TITLE
SITE PLAN

DRAWING NO:
C2.1



*** NOTE:**
 GREENWAY TRAIL/PATH ON NORTH SIDE OF ARLINGTON ALREADY EXISTS FROM STATION 0+80 TO 34+40. BID ALTERNATE 1 IS FOR THE REPLACEMENT OF THIS TRAIL. WHETHER OR NOT THE BID ALTERNATE IS SELECTED, THE ACCESSIBLE RAMPS MUST BE REPLACED TO CONFORM TO STANDARDS. IF BID ALTERNATE 1 IS NOT SELECTED THE NEW RAMPS WILL CONNECT TO THE EXISTING TRAIL.

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LEGEND

- CB = CATCH BASIN
- DI = DROP INLET
- EX = EXISTING
- INV = INVERT
- JB = JUNCTION BOX
- TYP = TYPICAL
- EXISTING CONTOUR
- EXISTING SPOT ELEVATION
- EXISTING STORM PIPE
- PROPOSED STORM PIPE
- EXISTING SANITARY SEWER
- EXISTING WATER LINE
- UG = UNDERGROUND
- EX = EXISTING OVERHEAD ELECTRIC
- UE = UNDERGROUND ELECTRIC
- SILT FENCE
- PROPOSED CURB & GUTTER
- UNDERCUT & SELECT FILL
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- MILL DOWN ASPHALT
- PROPOSED RIP RAP
- OUTLET PROTECTION
- LIMITS OF DISTURBANCE

REV	DATE	DESCRIPTION
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TO: PROJECT NO.	20180161
CLIENT PROJECT NO.	
PROJECT TITLE	CITY OF GREENVILLE ARLINGTON BOULEVARD IMPROVEMENTS
DRAWING TITLE	SITE PLAN
DRAWING NO.	C3.1

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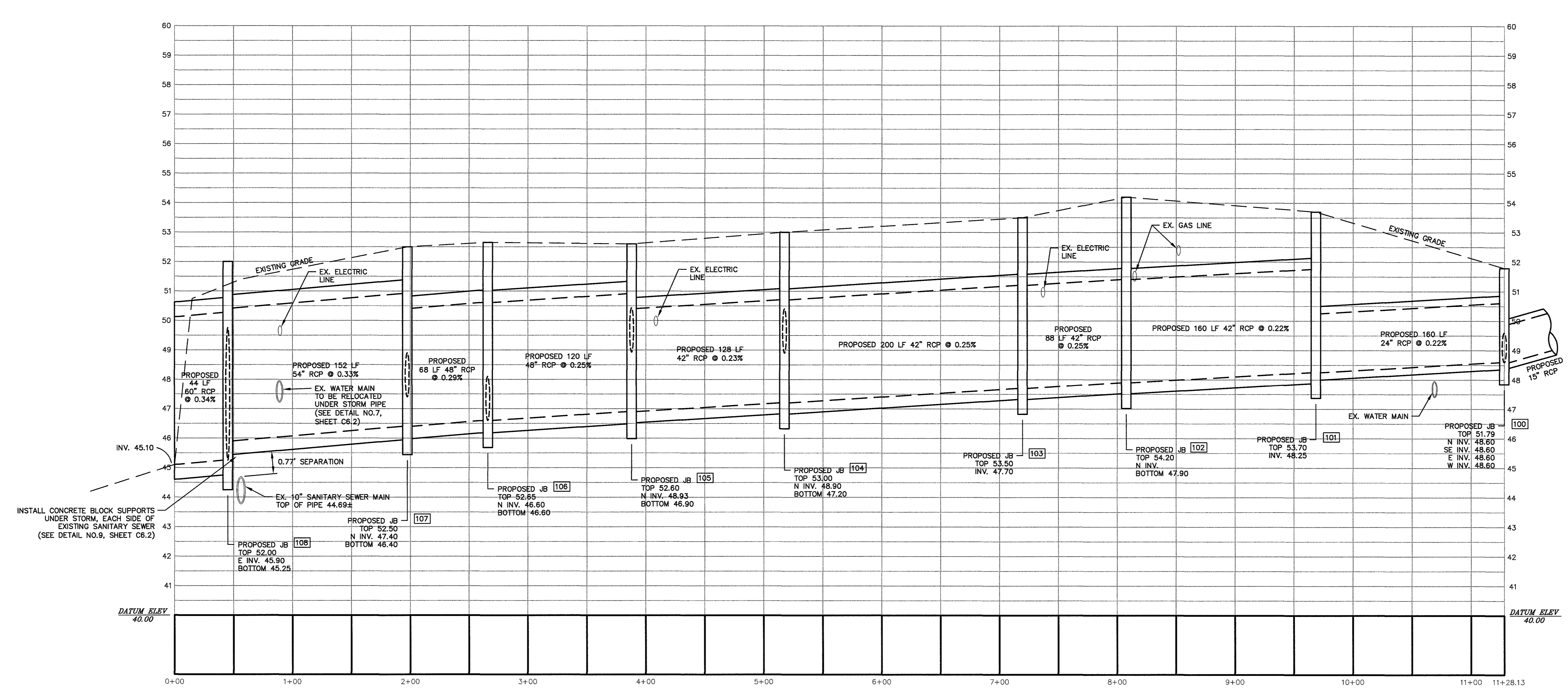
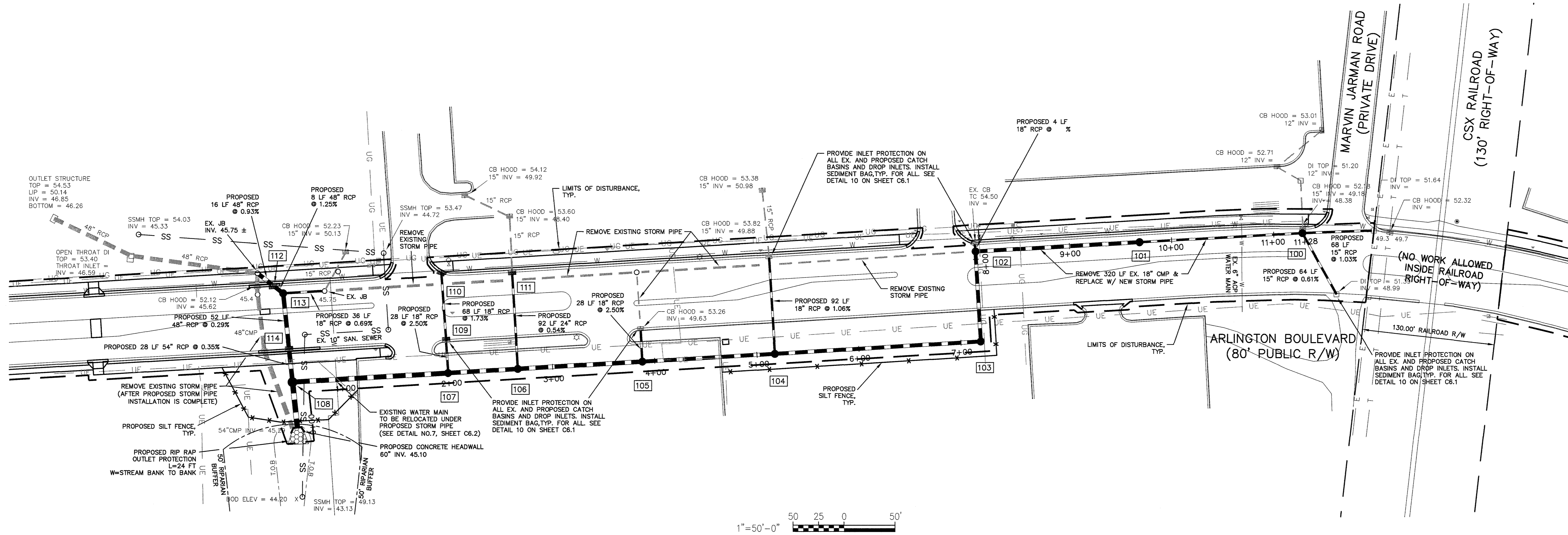
CITY OF GREENVILLE
ARLINGTON BOULEVARD IMPROVEMENTS

DRAWING TITLE

PLAN & PROFILE
STORM DRAINAGE

DRAWING NO.

C4.1



STORM DRAINAGE STRUCTURES

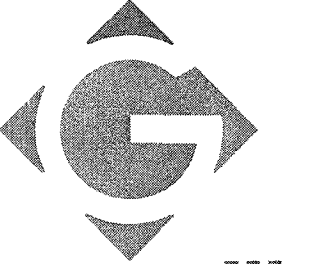
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111	PROPOSED CB TC 53.25 ± (MATCH EX. CURB) INV. 47.10
112	PROPOSED CB TC 52.04 INV. 45.60
113	PROPOSED JB TOP 51.75 ± INV. 45.50
114	PROPOSED CB TC 52.22 INV. 45.35

LEGEND

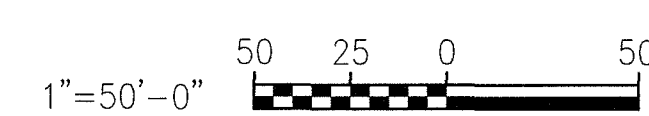
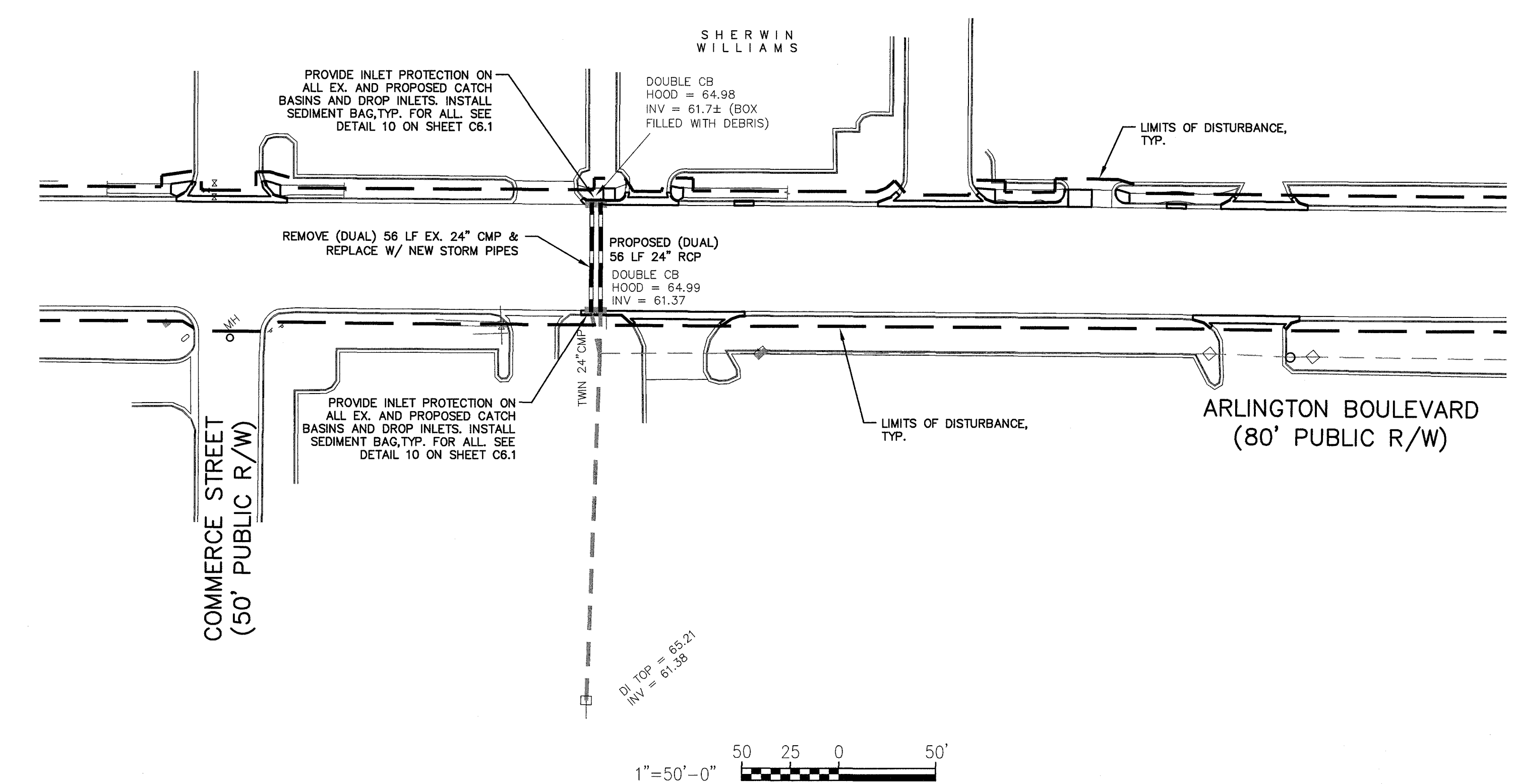
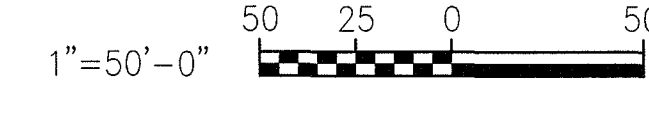
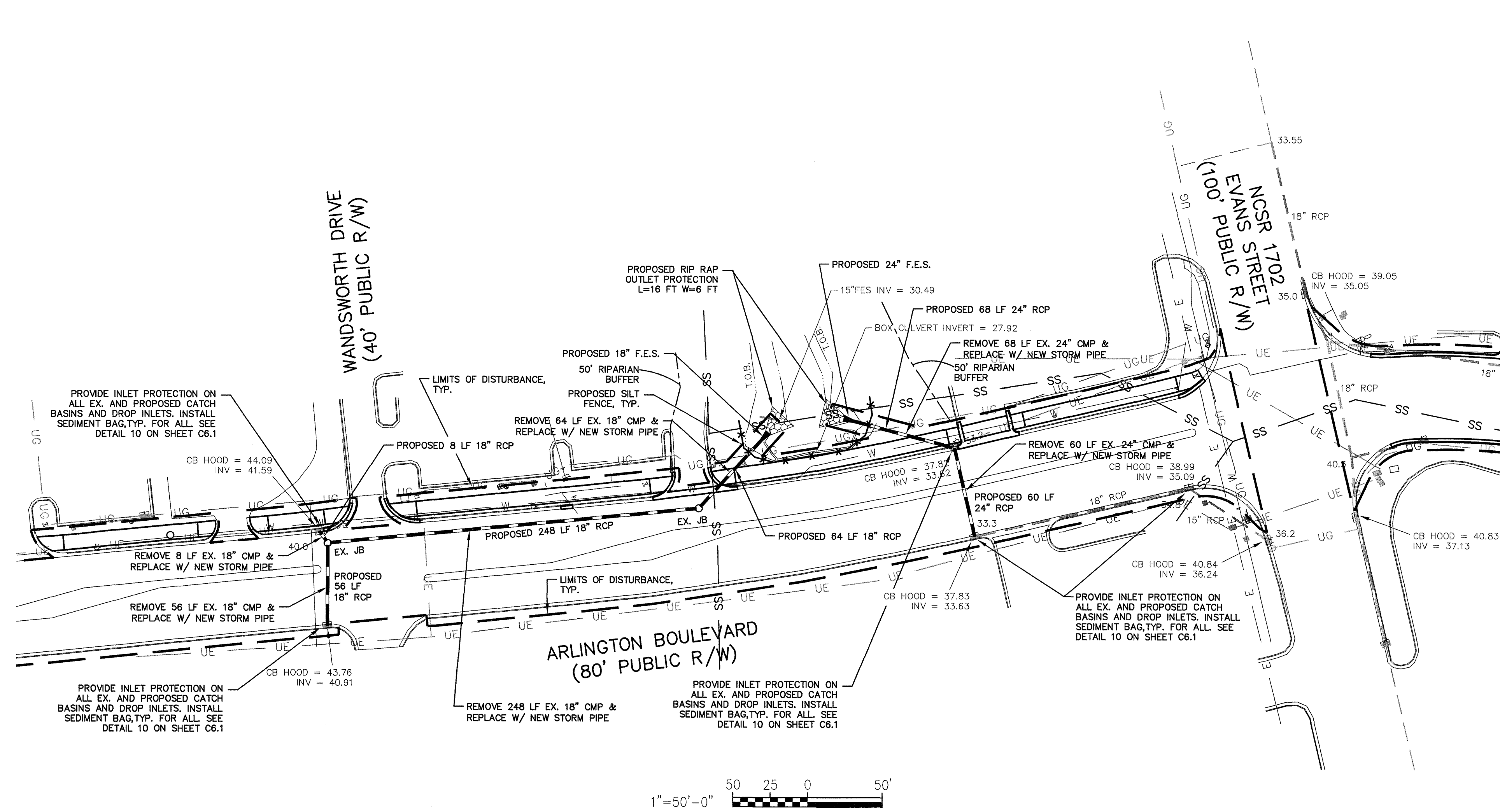
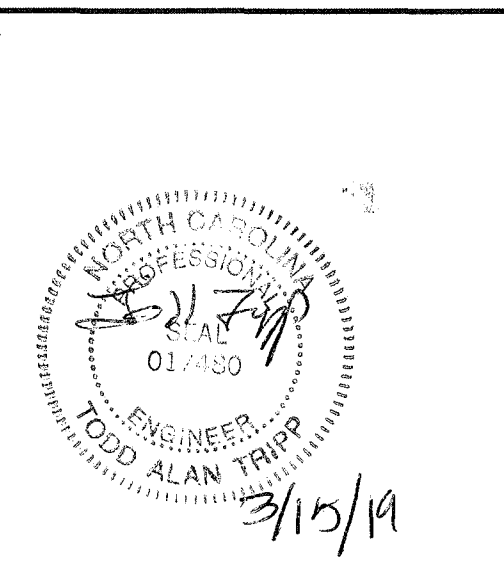
- CB = CATCH BASIN
- DI = DROP INLET
- EX = EXISTING
- INV = INVERT
- JB = JUNCTION BOX
- TYP = TYPICAL
- EXISTING CONTOUR
- EXISTING SPOT ELEVATION
- EXISTING STORM PIPE
- PROPOSED STORM PIPE
- EXISTING SANITARY SEWER
- EXISTING WATER LINE
- EXISTING GAS LINE
- EXISTING OVERHEAD ELECTRIC
- EX UNDERGROUND ELECTRIC
- SILT FENCE
- PROPOSED CURB & GUTTER
- UNDERCUT & SELECT FILL
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- MILL DOWN ASPHALT
- PROPOSED RIP RAP OUTLET PROTECTION
- LIMITS OF DISTURBANCE

STORM DRAINAGE
 HORIZONTAL SCALE: 1" = 50'
 VERTICAL SCALE: 1" = 2'

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LEGEND

- CB = CATCH BASIN
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TEC PROJECT NO. 20180161

CLIENT PROJECT NO. -

PROJECT TITLE
**CITY OF GREENVILLE
 ARLINGTON
 BOULEVARD
 IMPROVEMENTS**

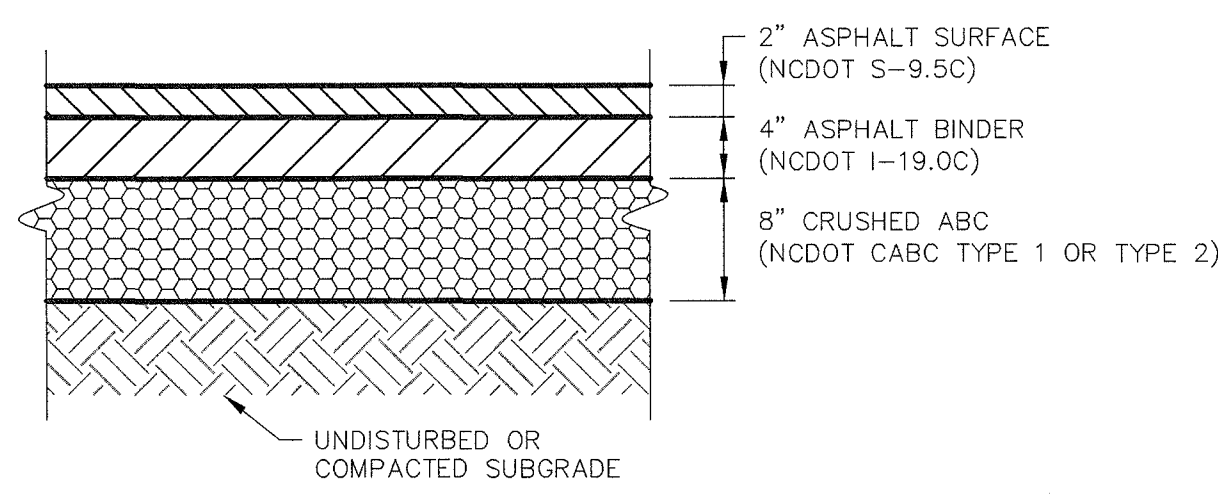
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**PLAN VIEW
 STORM DRAINAGE**

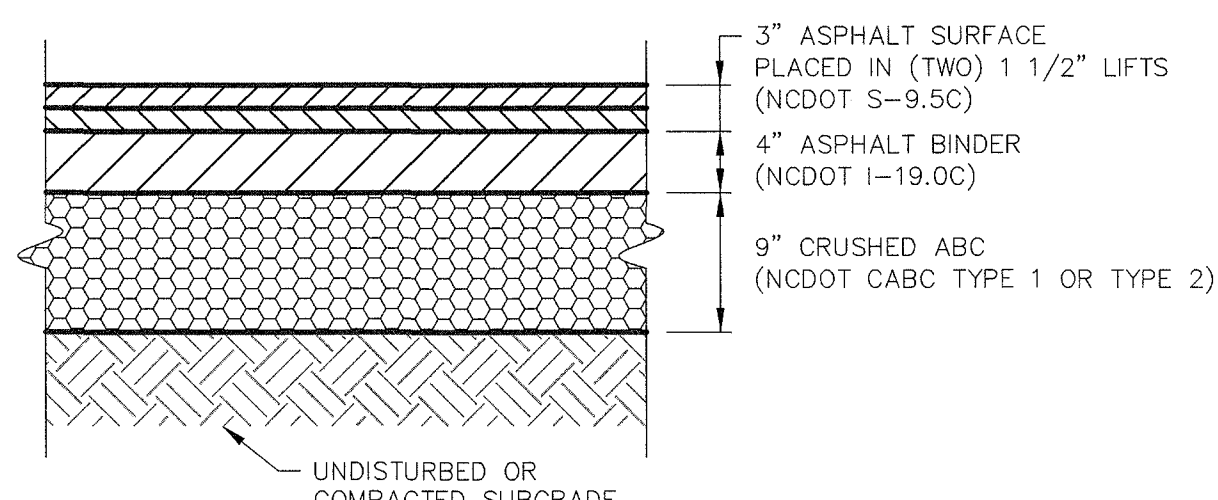
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C4.2

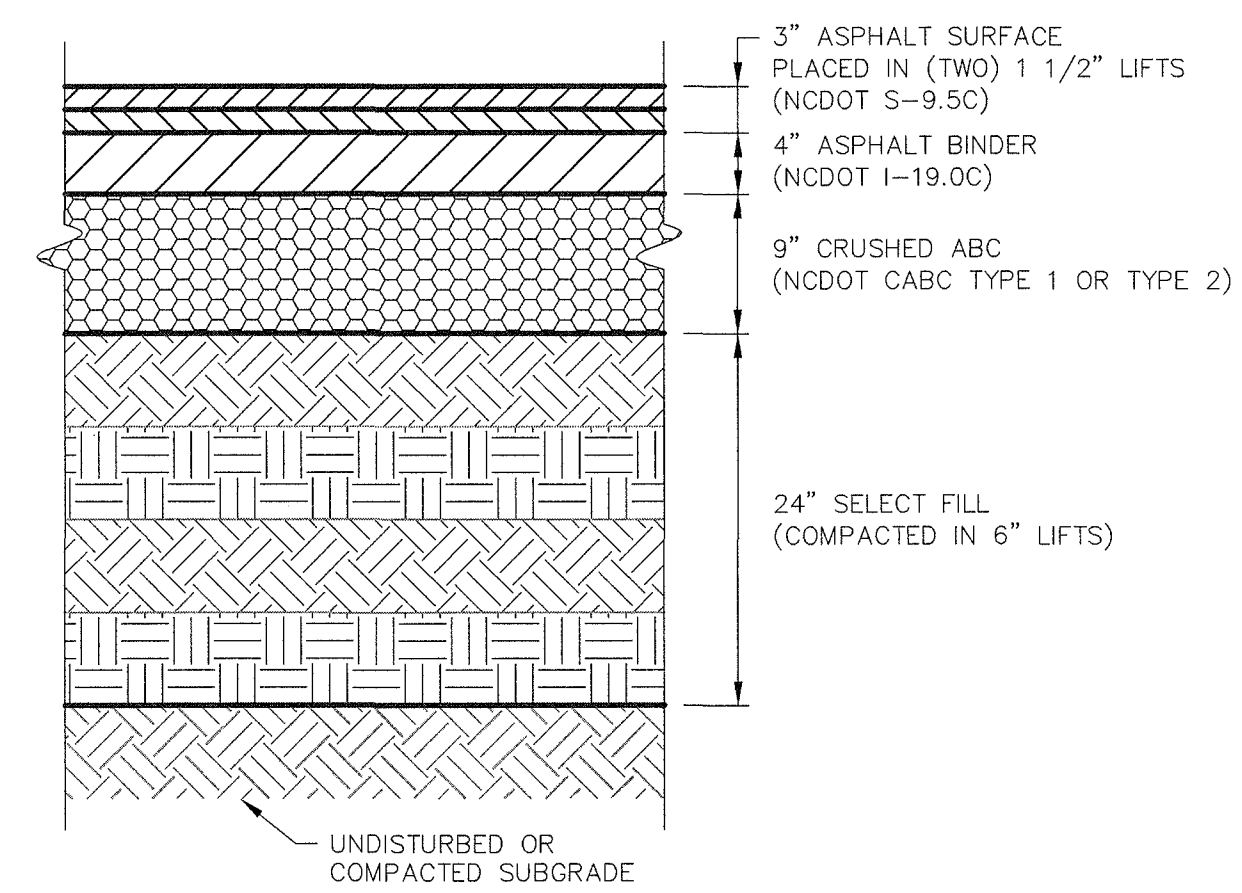
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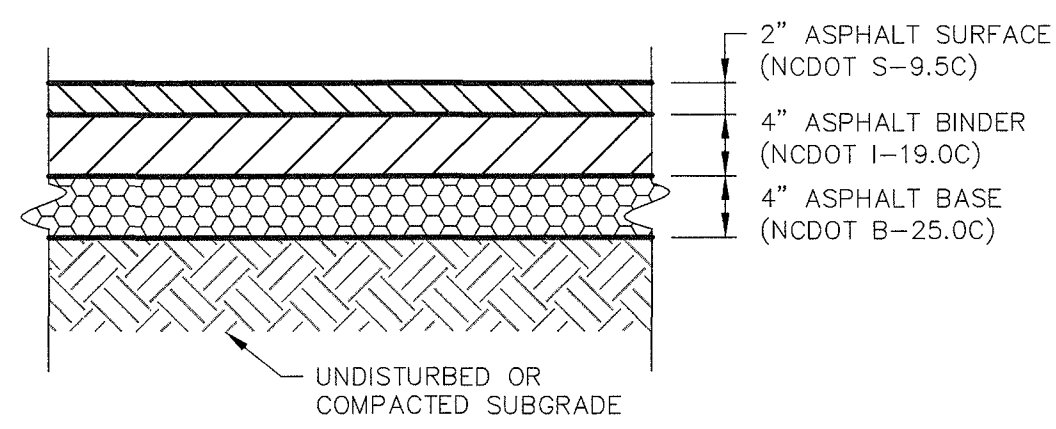
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C5.1 N.T.S.



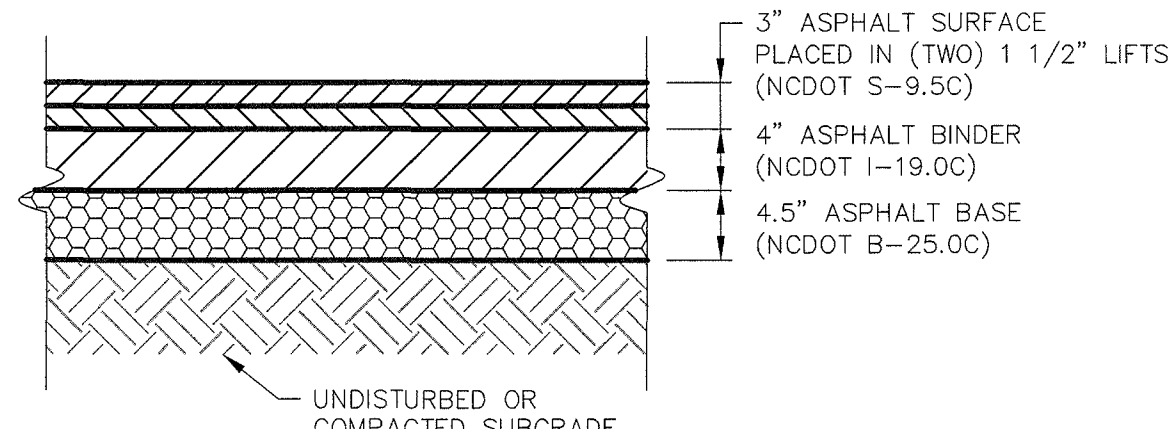
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C5.1 N.T.S.



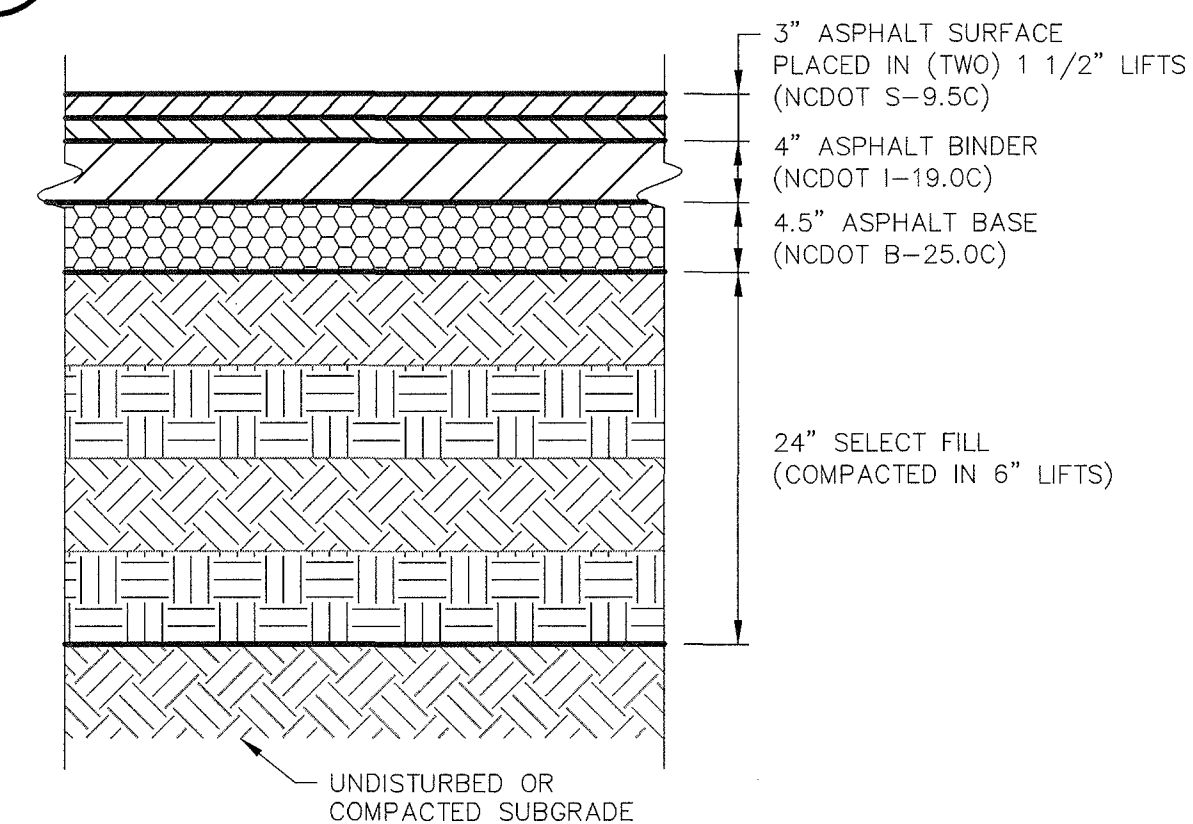
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C5.1 N.T.S.



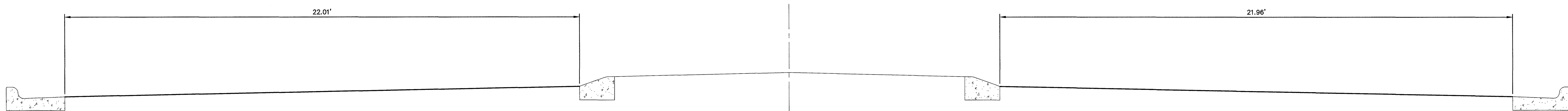
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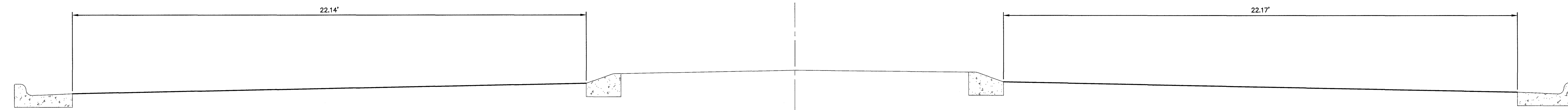
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C5.1 N.T.S.



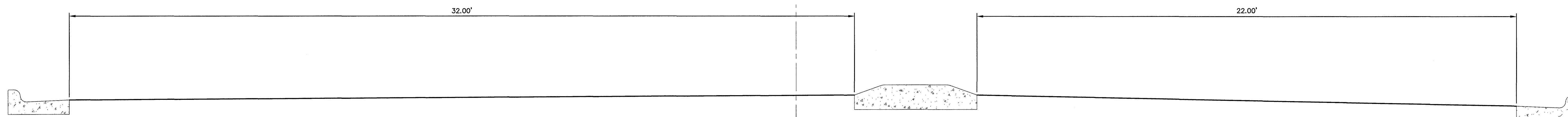
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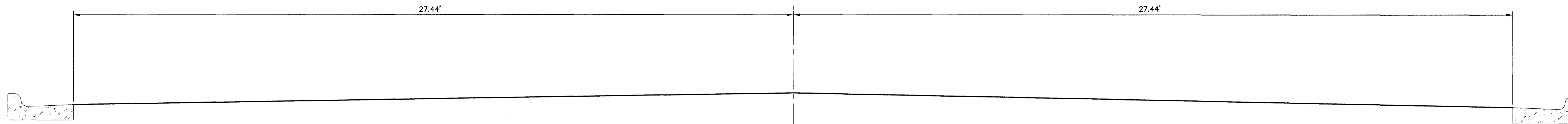
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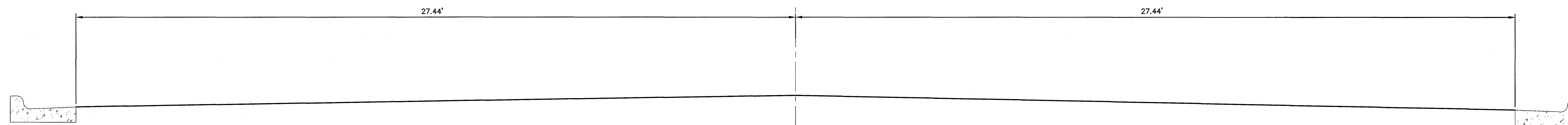
SECTION "B-B"



SECTION "C-C"

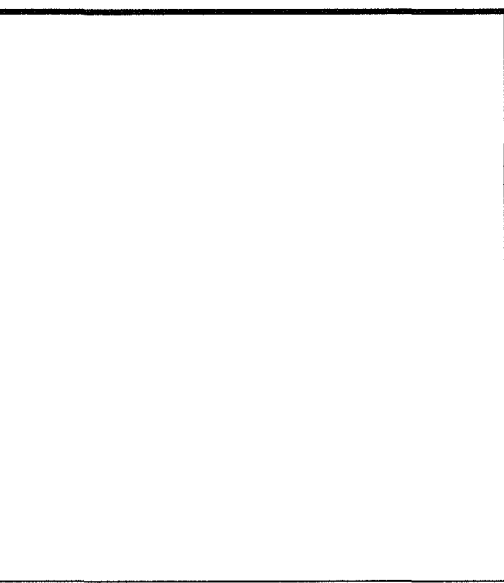
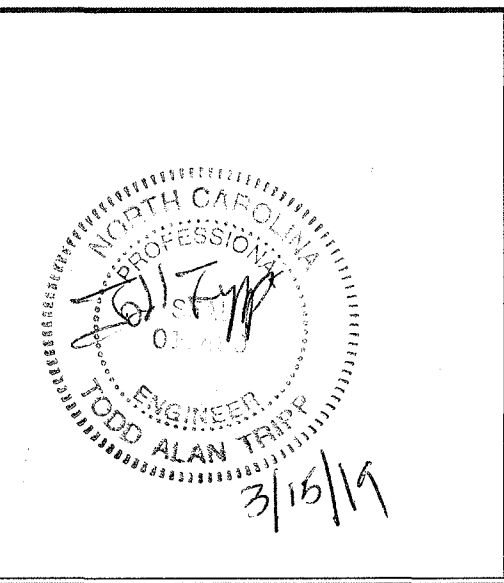


SECTION "D-D"



SECTION "E-E"

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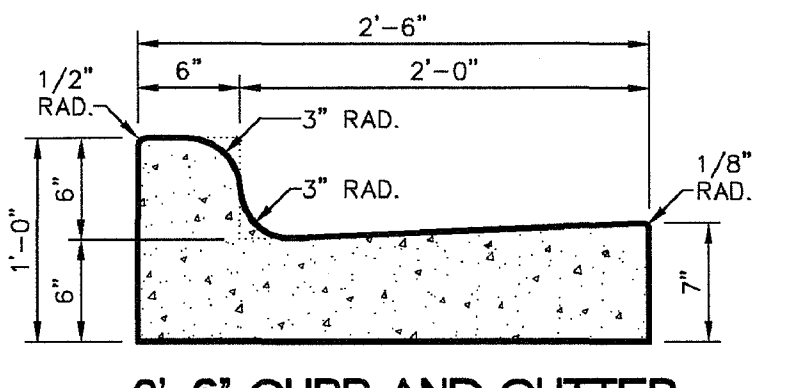
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**DETAILS AND
 SECTIONS**

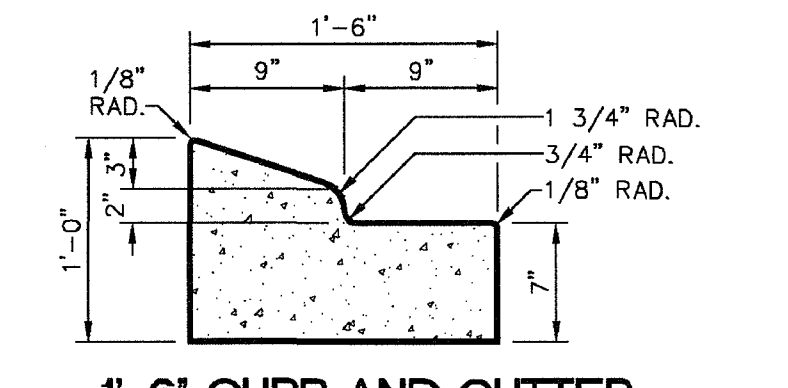
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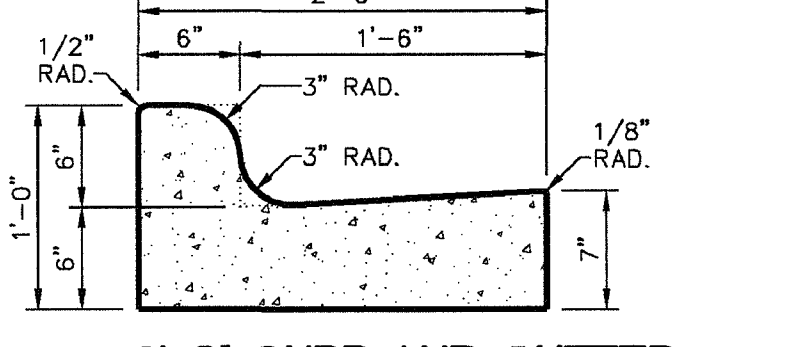
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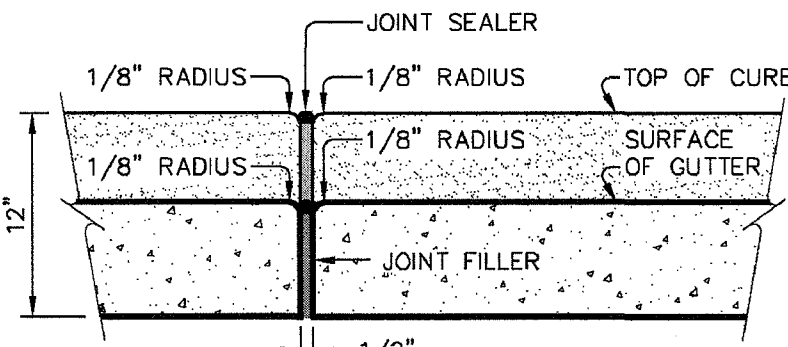
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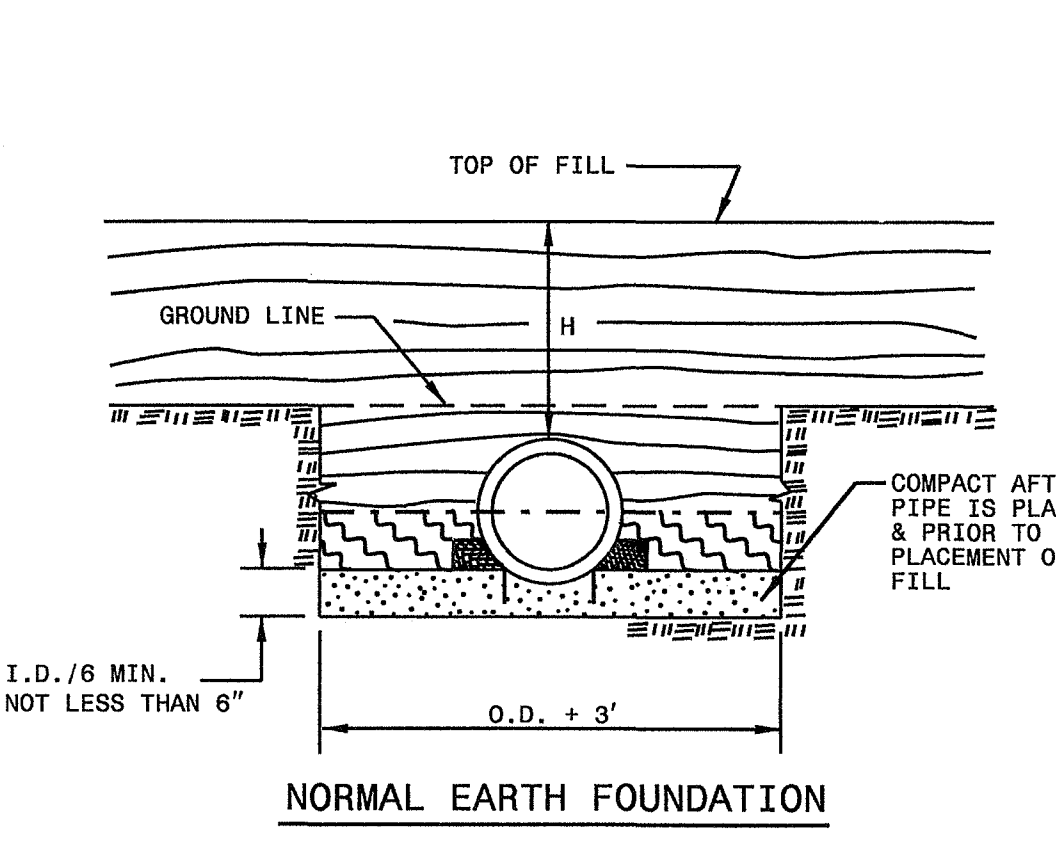
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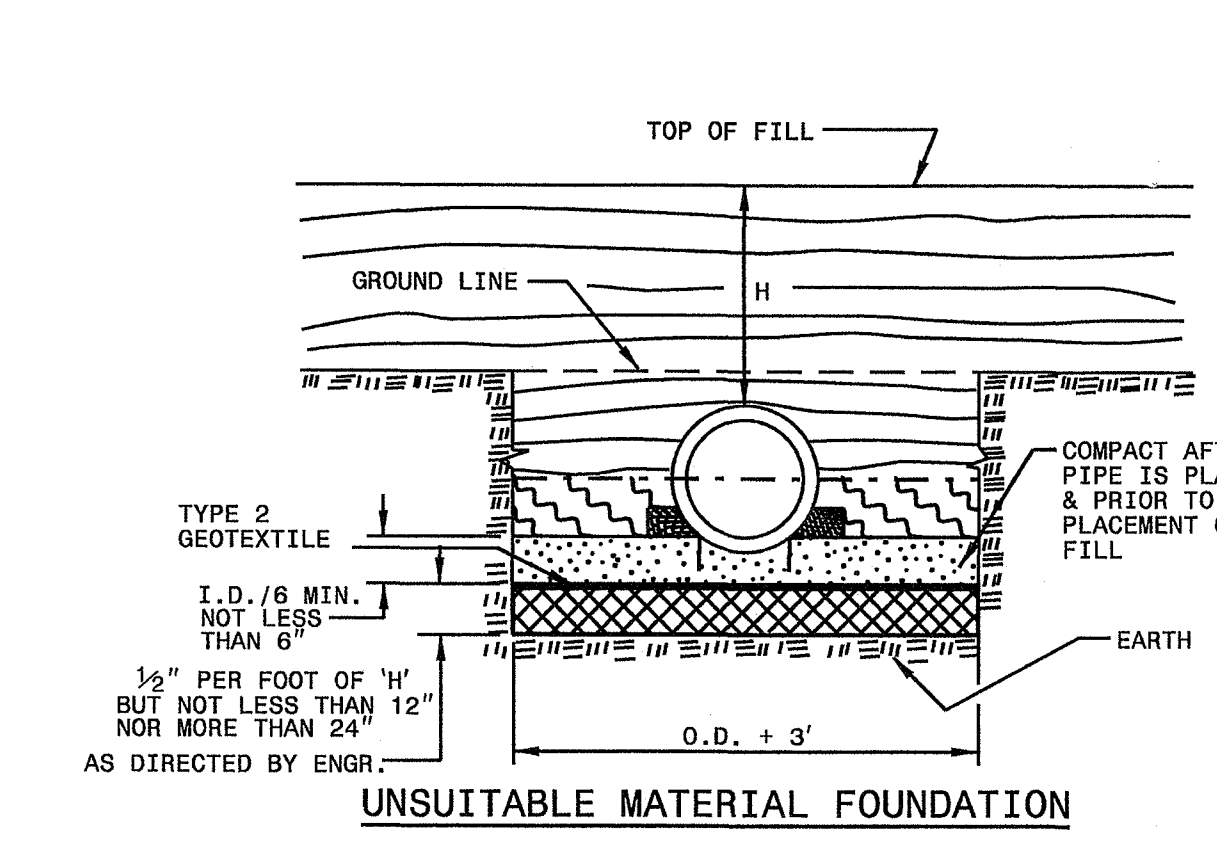
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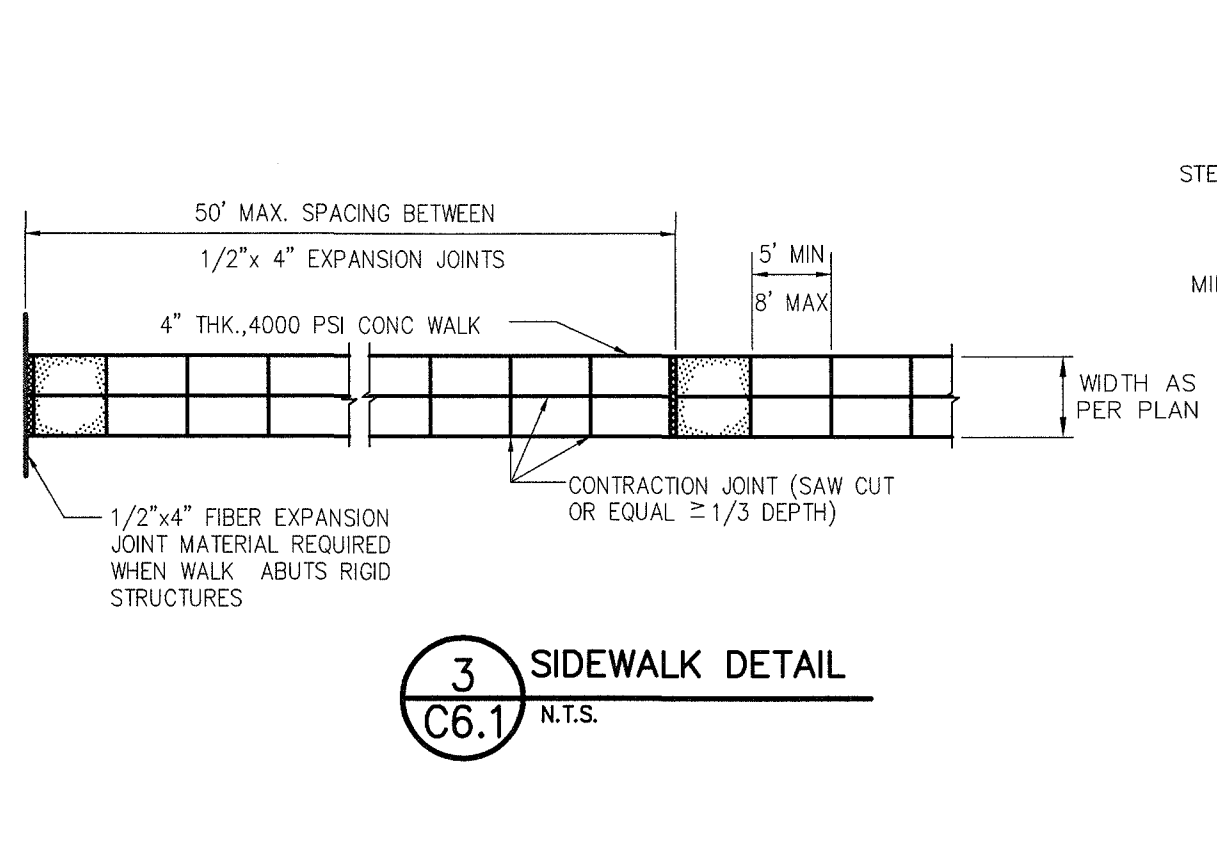
TRANSVERSE EXPANSION JOINT IN CURB AND GUTTER



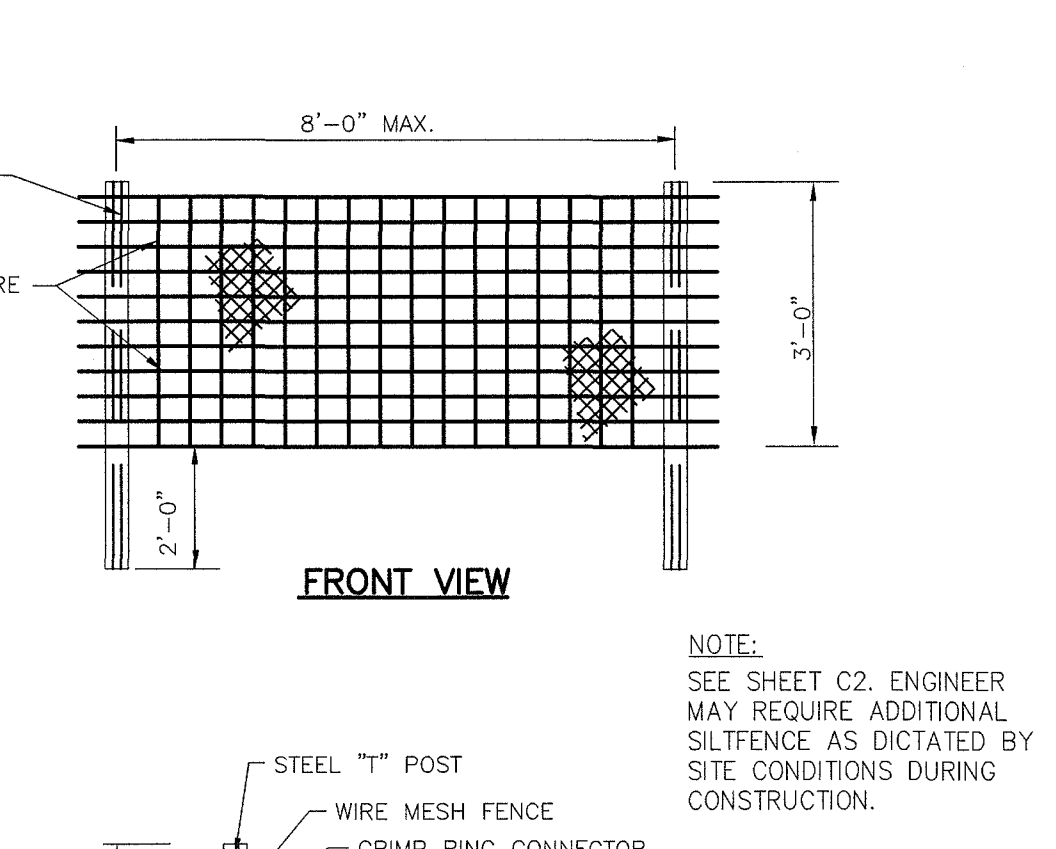
NORMAL EARTH FOUNDATION



UNSATURABLE MATERIAL FOUNDATION



3 SIDEWALK DETAIL C6.1 N.T.S.



5 SILT FENCE DETAIL C6.1 N.T.S.

- NOTES:**
1. Contraction joints shall be placed at 10' intervals, except that 15' spacing may be used when a machine is used or when satisfactory support for the face form can be obtained without the use of templates at 10' intervals. Joint spacing may be altered by the engineer to prevent uncontrolled cracking.
 2. Contraction joints may be installed by the use of templates or formed by other approved methods. Where such joints are not formed by templates, a minimum depth of 1 1/2\"/>

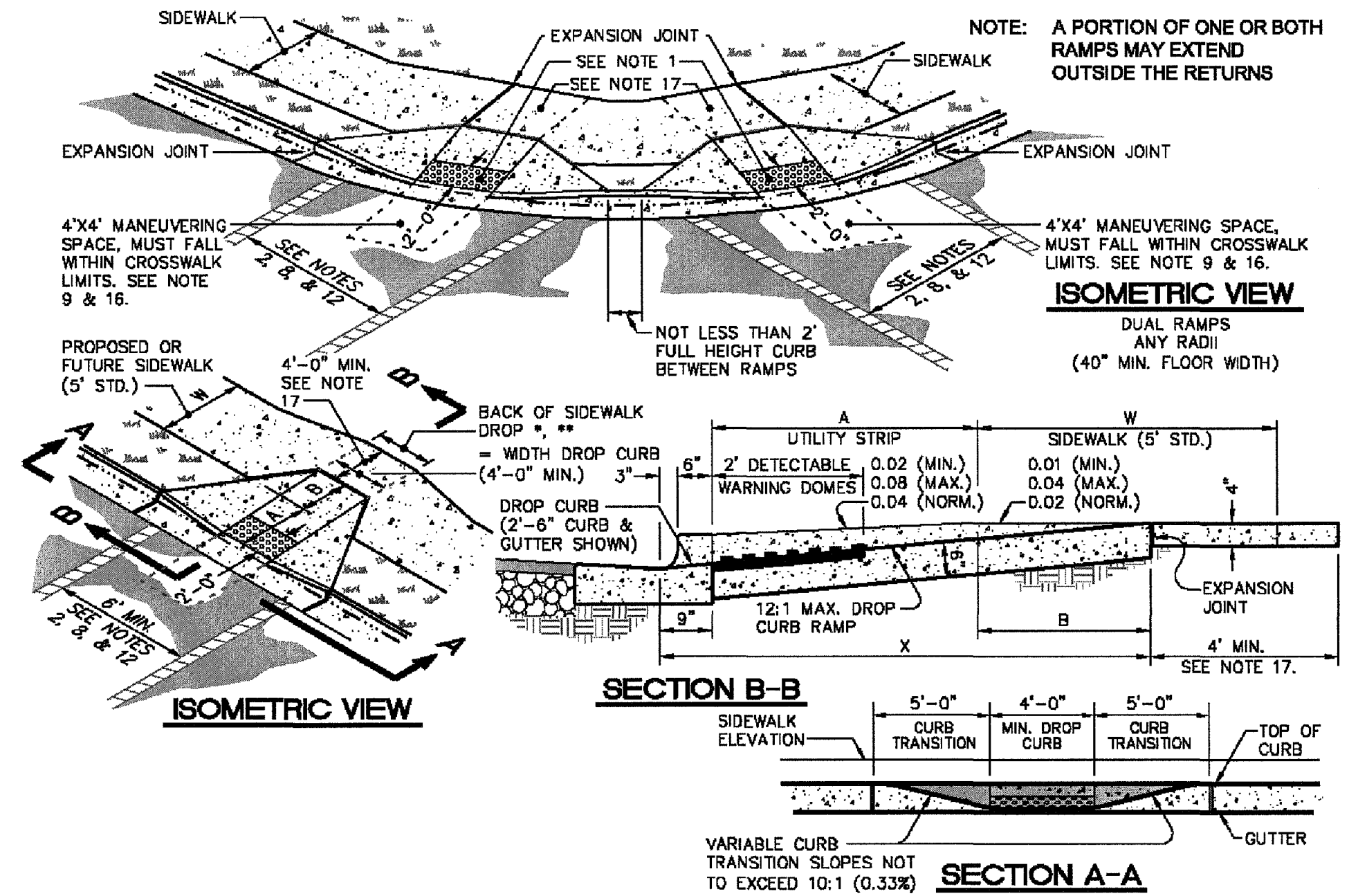
- GENERAL NOTES:**
- I.D. = THE MAXIMUM HORIZONTAL INSIDE DIAMETER DIMENSION.
 O.D. = THE MAXIMUM HORIZONTAL OUTSIDE DIAMETER DIMENSION.
 H = THE FILL HEIGHT MEASURED VERTICALLY AT ANY POINT ALONG THE PIPE FROM THE TOP OF THE PIPE TO THE TOP OF THE EMBANKMENT AT THAT POINT.
- DO NOT OPERATE HEAVY EQUIPMENT OVER ANY PIPE CULVERT UNTIL THE PIPE CULVERT HAS BEEN PROPERLY BACKFILLED AND COVERED WITH AT LEAST 3 FEET OF APPROVED MATERIAL.
- SPRINGLINE OF PIPE
- SELECT BACKFILL MATERIAL CLASS III OR CLASS II,
 - APPROVED SUITABLE LOCAL MATERIAL ABOVE SPRINGLINE.
 - UNDISTURBED EARTH MATERIAL
 - SELECT MATERIAL CLASS V OR VI FOR FOUNDATION CONDITIONING. ENCAPSULATE WITH TYPE 2 GEOTEXTILE AS DIRECTED BY THE ENGINEER.

1 TYPICAL CURB & GUTTER DETAIL C6.1 N.T.S.

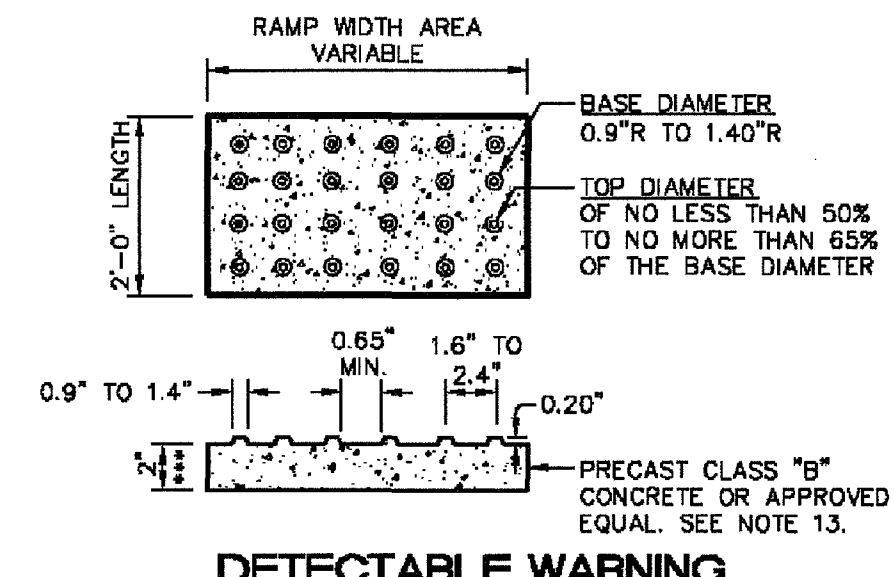
2 STORM DRAIN TRENCH DETAIL C6.1 N.T.S.

4 STANDARD TAPER CURB DETAIL C6.1 N.T.S.

5 SILT FENCE DETAIL C6.1 N.T.S.

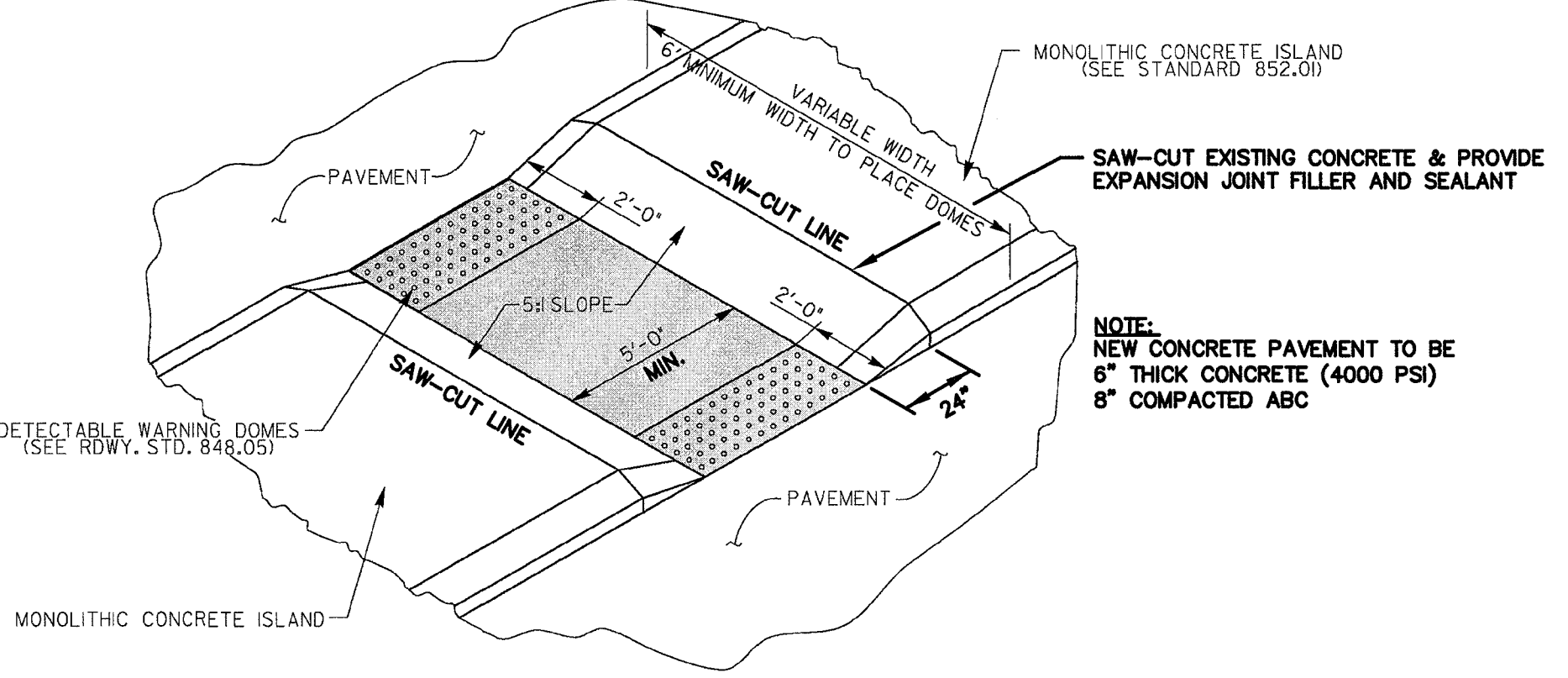
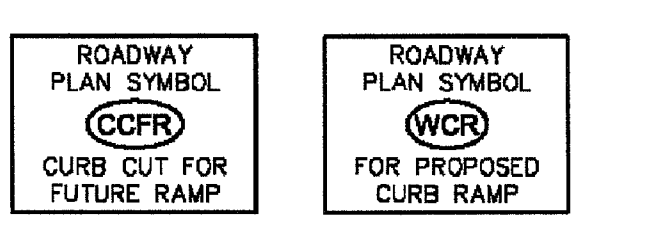


6 CURB RAMP DETAIL C6.1 N.T.S.

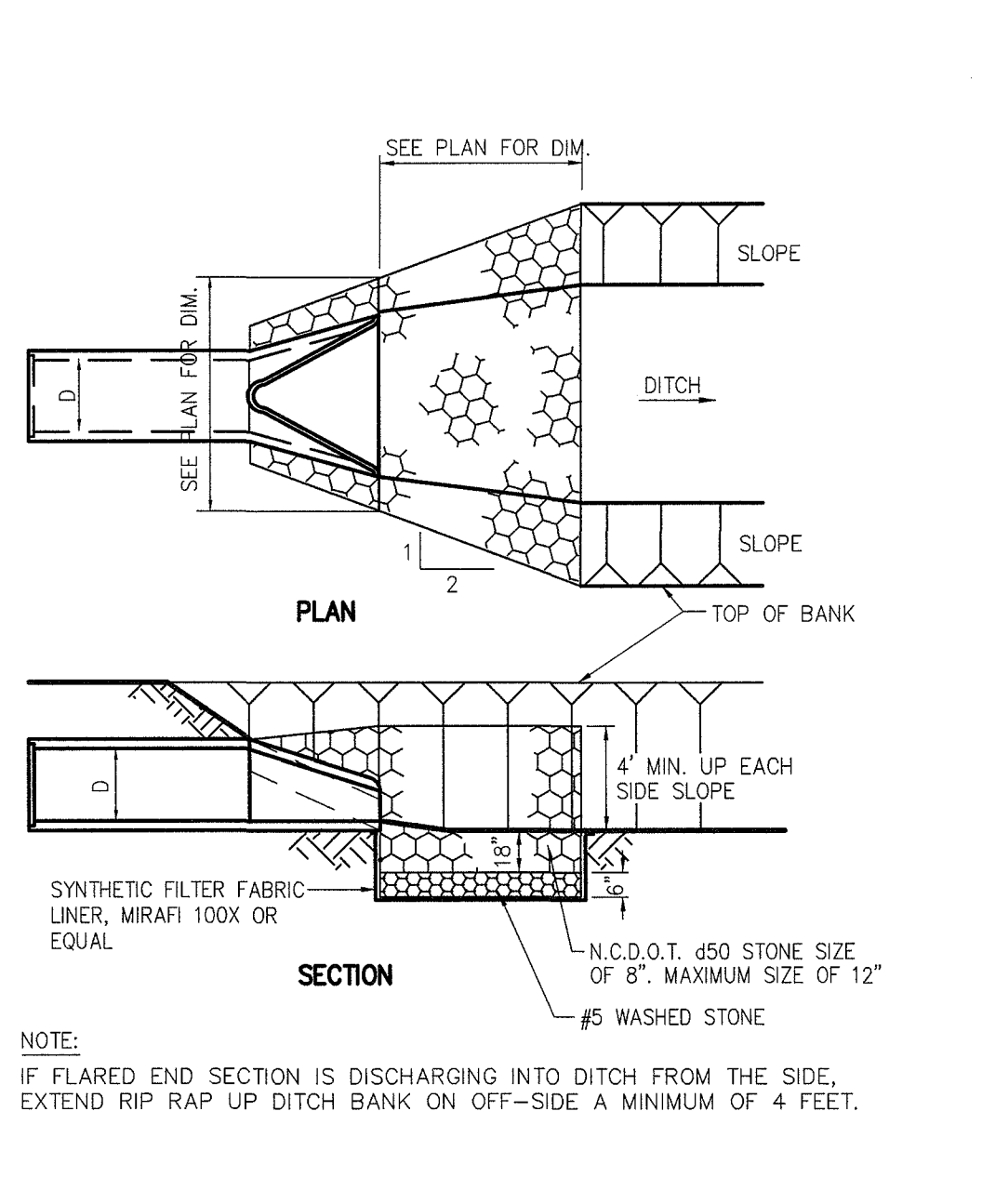


DETECTABLE WARNING DOMES

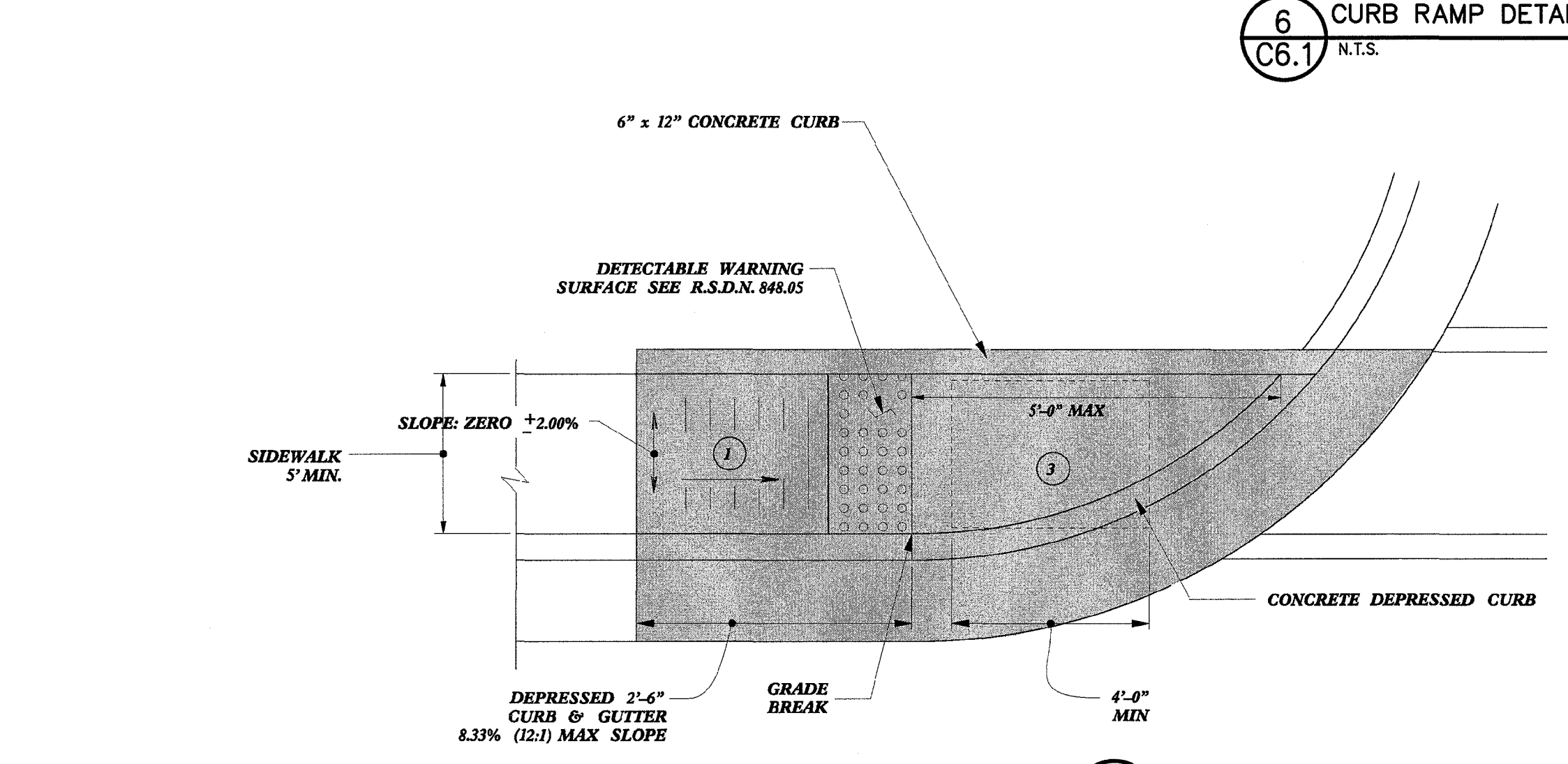
W	A	W+A+g	X	B
5'	0.0'	5.8'	5.8'	5.0'
6'	0.0'	6.8'	6.8'	6.0'
7'	0.0'	7.8'	7.3'	6.5'
8'	0.0'	8.8'	7.3'	6.5'
5'	1.5'	7.3'	7.5'	6.2'
5'	2.0'	7.8'	7.8'	6.0'
5'	2.5'	8.3'	8.1'	4.8'
5'	3.0'	8.8'	8.3'	4.4'
5'	3.5'	9.3'	8.3'	4.1'
5'	4.0'	9.8'	8.6'	3.8'
5'	4.5'	10.3'	8.7'	3.4'
5'	5.0'	10.8'	8.9'	3.1'



7 MEDIAN ISLAND CURB RAMP C6.1 N.T.S.

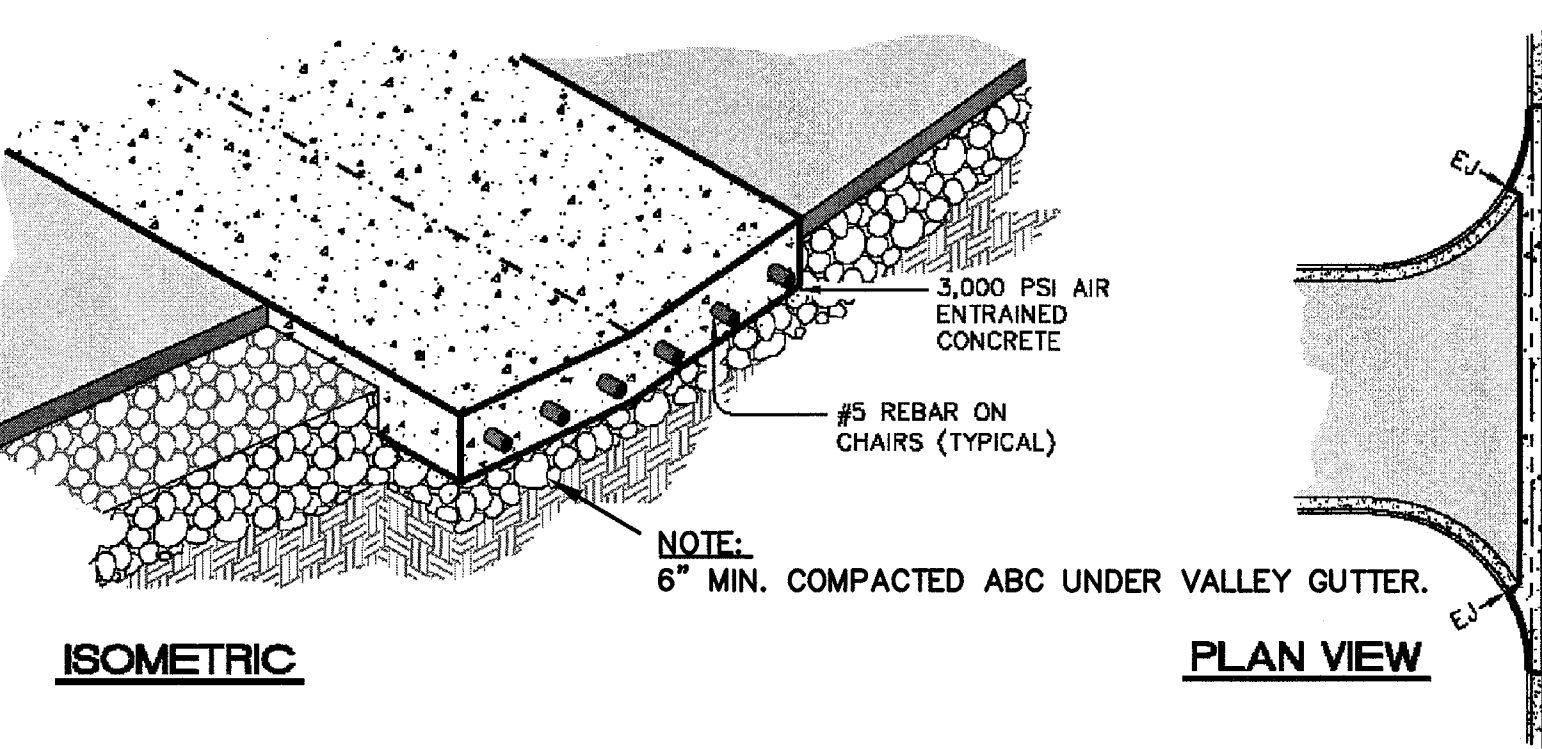
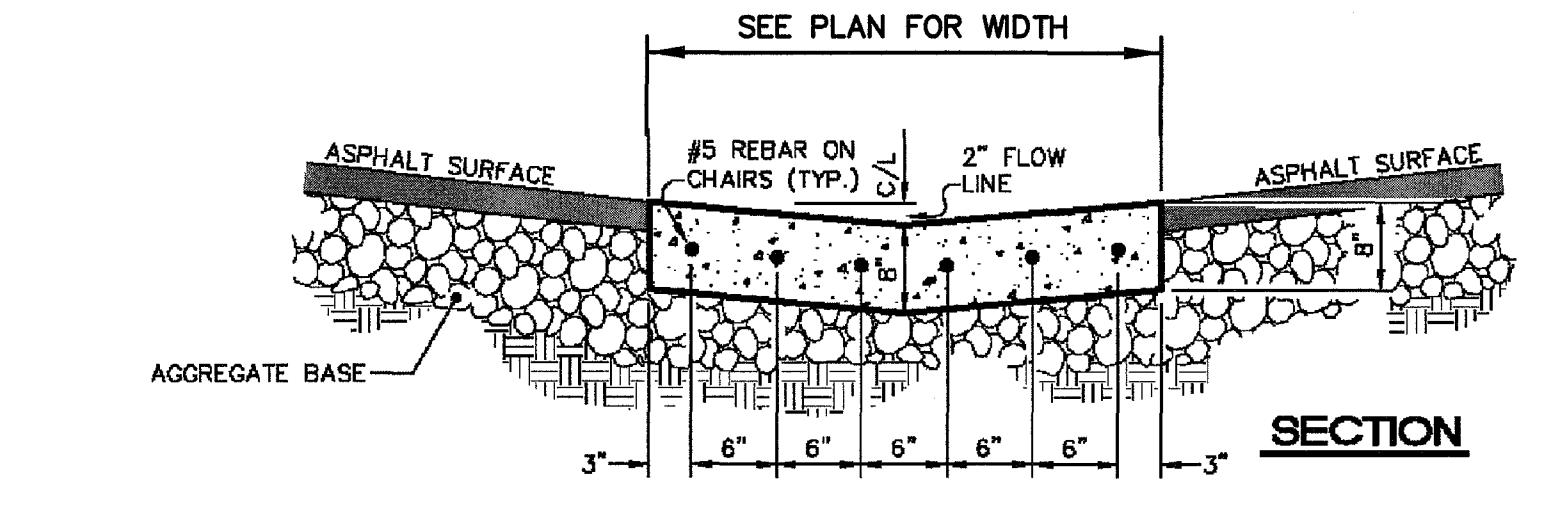


8 FLARED END SECT. INLET/OUTLET PROTECTION C6.1 N.T.S.

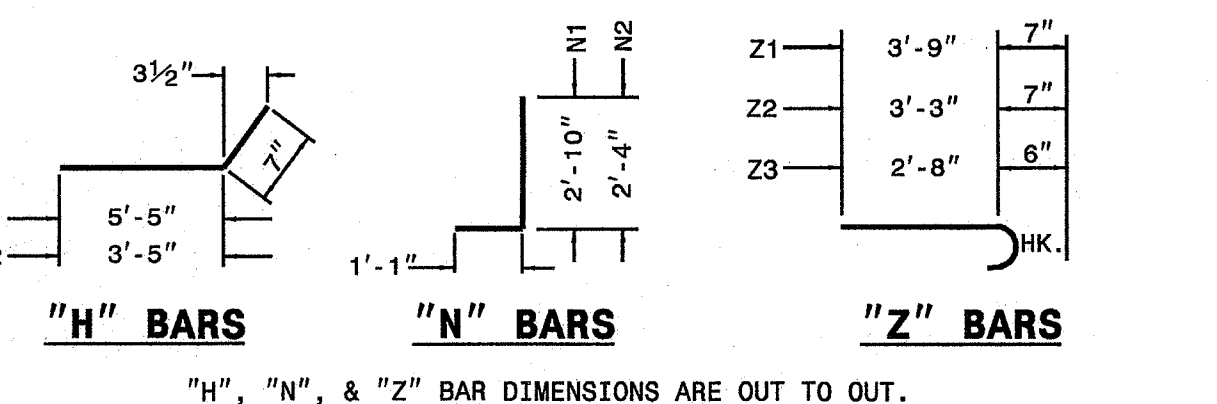
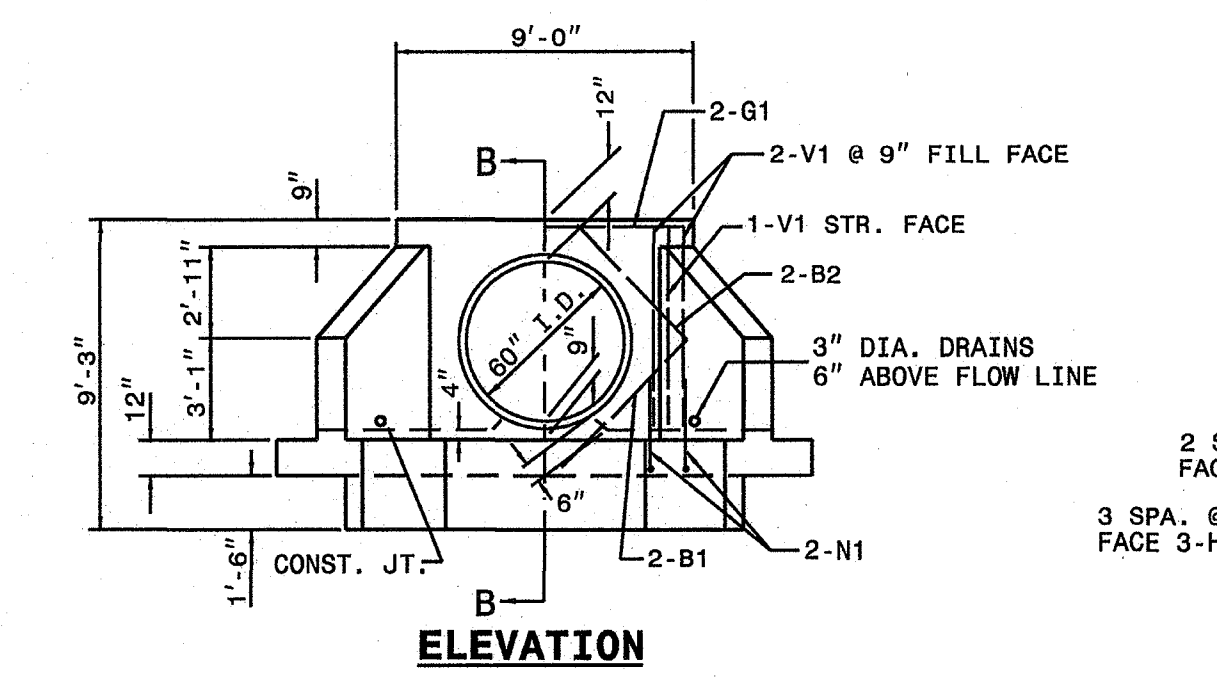
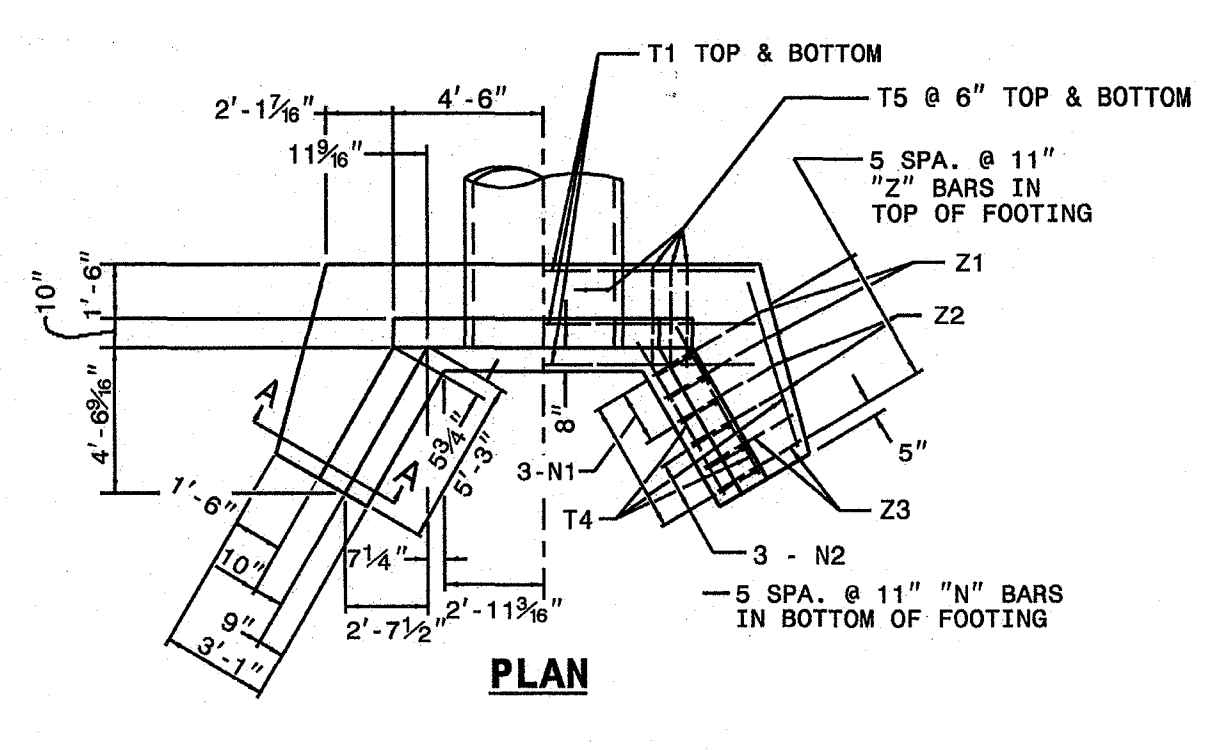


9 CURB RAMP DETAIL C6.1 N.T.S.

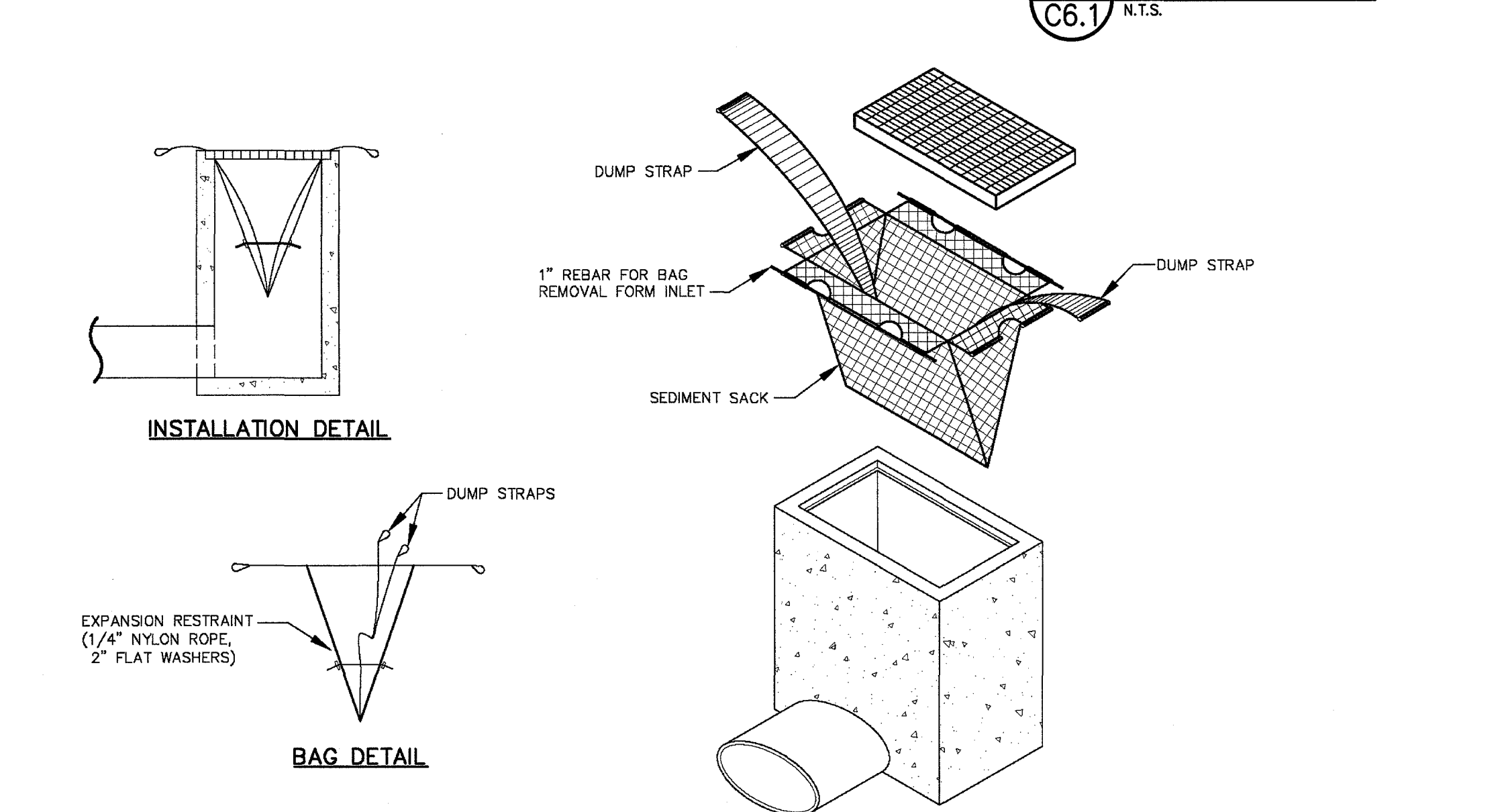
1. 8.33% (12:1) MAX RAMP SLOPE
2. CROSS SLOPE: 2.00%
3. CURB RAMPS REQUIRE A 4'-0" MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.



11 VALLEY GUTTER DETAIL C6.1 N.T.S.



12 CONCRETE HEADWALL DETAIL C6.1 N.T.S.



10 INLET SEDIMENT BAG DETAIL C6.1 N.T.S.

SEE STD. # 838.45 FOR GENERAL NOTES.

BILL OF MATERIAL FOR ENDWALL REINF. STEEL				1 PIPE	
BAR SIZE	LENGTH	NO.	WEIGHT		
B1	#4 5'-0"	4	15		
B2	#4 4'-6"	4	12		
G1	#7 8'-8"	2	35		
H1	#4 6'-0"	10	40		
H2	#4 4'-0"	4	11		
N1	#5 3'-11"	10	41		
N2	#4 3'-5"	6	14		
T1	#4 12'-8"	6	51		
T4	#4 5'-6"	6	22		
T5	#4 2'-6"	36	60		
V1	#4 6'-3"	6	25		
V2	#4 5'-1"	6	20		
V3	#4 3'-11"	6	16		
V4	#4 2'-9"	6	11		
Z1	#5 4'-4"	4	18		
Z2	#4 3'-10"	4	10		
Z3	#4 3'-2"	4	8		
REINF. STEEL LBS.				409	
CON./R.C. CU. YDS				5.6	

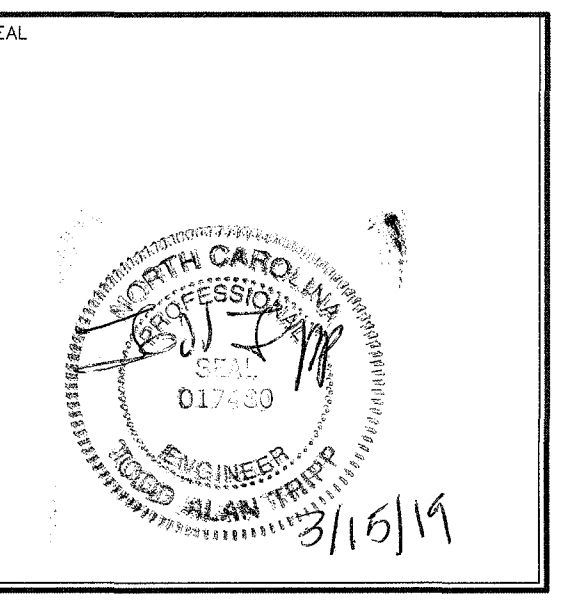
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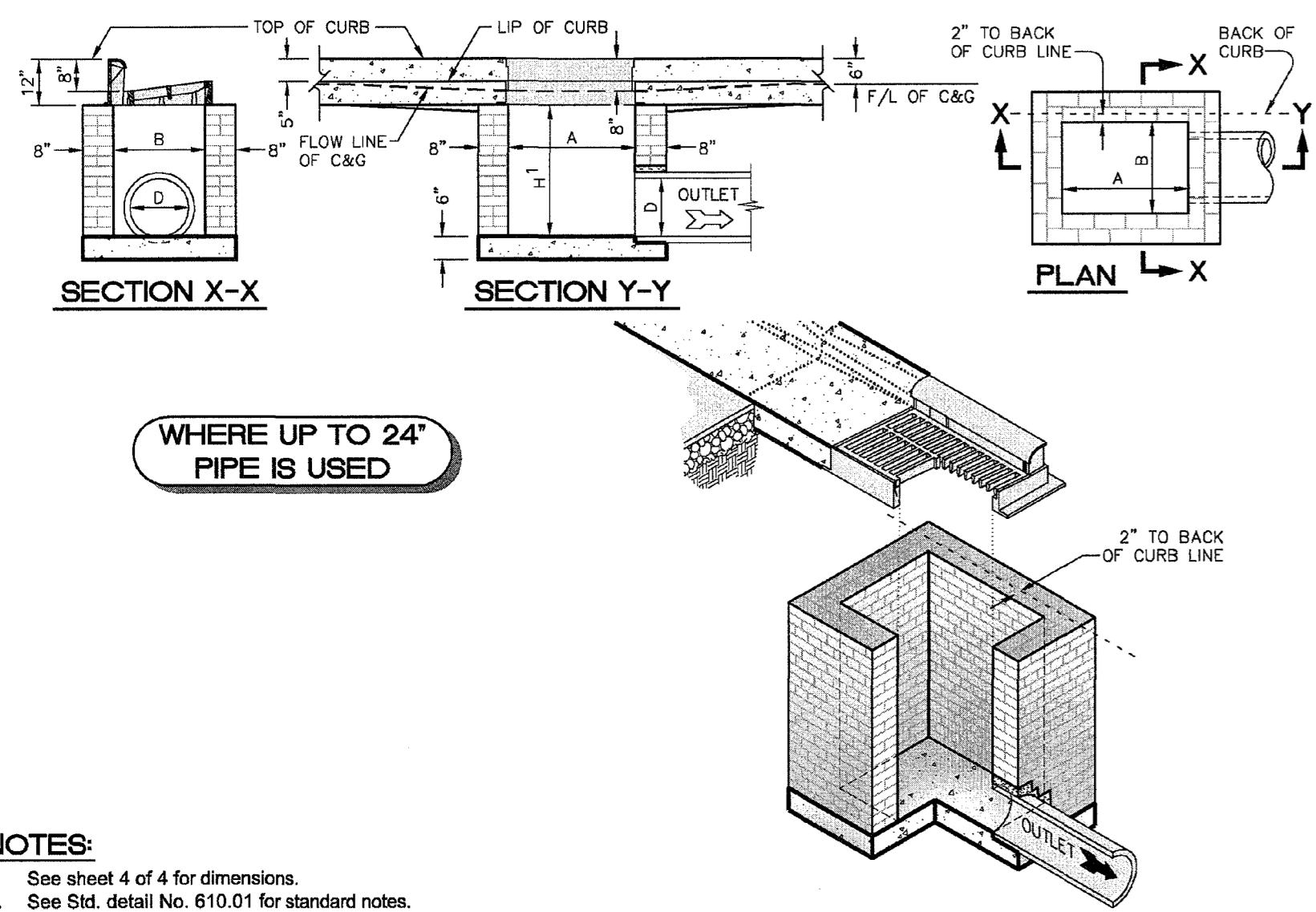


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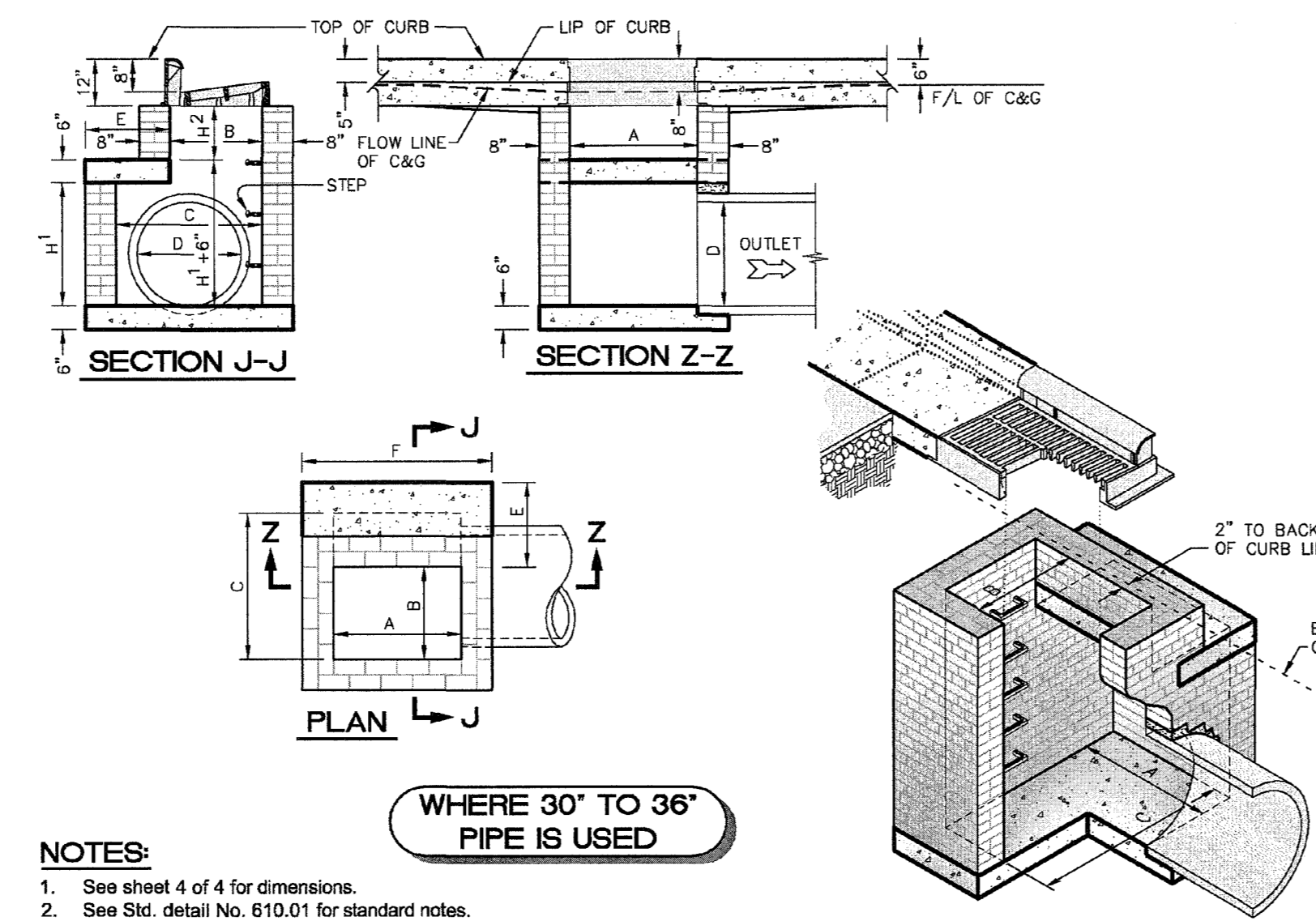
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 DRAWING TITLE
DETAILS
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NOTES:
 1. See sheet 4 of 4 for dimensions.
 2. See Std. detail No. 610.01 for standard notes.

1 STANDARD BRICK CATCH BASIN (24" PIPE)
 C6.2 N.T.S.



NOTES:
 1. See sheet 4 of 4 for dimensions.
 2. See Std. detail No. 610.01 for standard notes.

2 STANDARD BRICK CATCH BASIN (30"-36" PIPE)
 C6.2 N.T.S.

DIMENSIONS AND QUANTITIES FOR BRICK CATCH BASIN

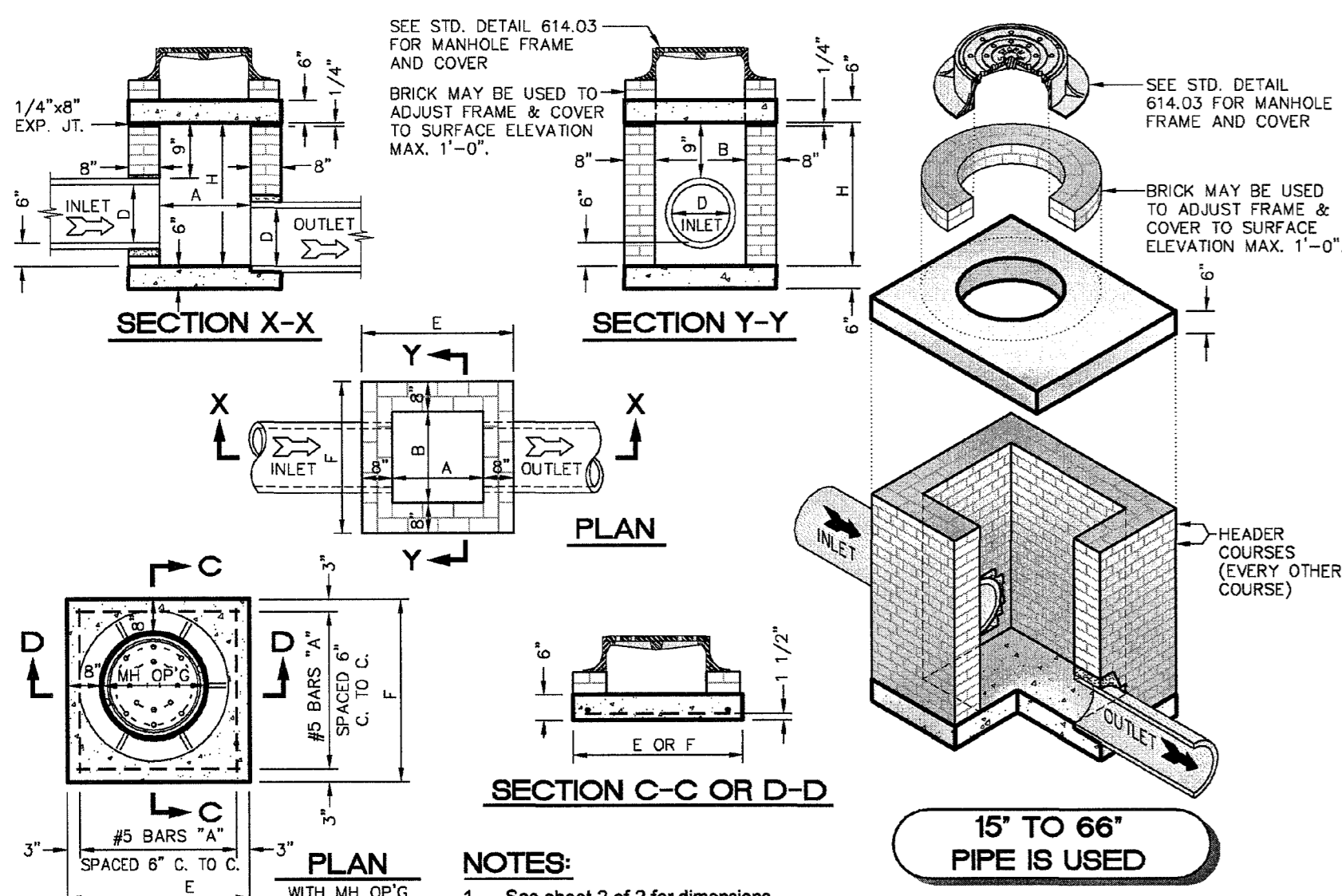
PIPE	DIMENSIONS OF BOX & PIPE			REINFORCEMENT BARS	COVER DIMENSIONS	CUBIC YARDS OF CONCRETE IN BOX			BRICK MASONRY PER FT. OF HEIGHT			
	SPAN	WIDTH	HEIGHT			CONC. BASE	BRICK MASONRY	REDUCTIONS FOR ONE PIPE C.U. YDS.				
18"	3'-0"	2'-2"	2'-0"	12	3'-1"	3'-4"	3'-4"	0.412	0.267	0.263	0.031	0.047
18"	3'-0"	2'-2"	2'-0"	14	3'-0"	3'-4"	3'-4"	0.469	0.314	0.290	0.044	0.060
24"	3'-0"	3'-0"	3'-0"	16	4'-1"	4'-4"	4'-4"	0.665	1.176	0.362	0.075	0.103
30"	3'-0"	3'-4"	3'-4"	18	4'-0"	4'-4"	4'-4"	0.867	1.481	0.365	0.122	0.170
36"	4'-0"	4'-0"	4'-0"	20	5'-1"	5'-4"	5'-4"	1.033	1.859	0.461	0.175	0.238
42"	4'-0"	4'-4"	4'-4"	22	5'-0"	5'-4"	5'-4"	1.333	2.203	0.627	0.240	0.323
48"	5'-0"	5'-0"	5'-0"	24	6'-1"	6'-4"	6'-4"	1.488	2.940	0.650	0.313	0.422
54"	5'-0"	5'-4"	5'-4"	26	6'-0"	6'-4"	6'-4"	1.729	3.402	0.650	0.360	0.503
60"	5'-0"	6'-0"	6'-0"	28	7'-1"	7'-4"	7'-4"	1.992	4.119	0.658	0.489	0.660
66"	6'-0"	6'-4"	6'-4"	30	7'-0"	7'-4"	7'-4"	2.273	4.778	0.706	0.581	0.786

DIMENSIONS AND QUANTITIES FOR BRICK JUNCTION BOXES

PIPE	DIMENSIONS OF BOX & PIPE			REINFORCEMENT BARS	COVER DIMENSIONS	CUBIC YARDS			REDUCTIONS FOR ONE PIPE C.U. YDS.			
	SPAN	WIDTH	HEIGHT			CONC. BASE	BRICK MASONRY	CONC. WALL				
18"	2'-2"	2'-2"	2'-0"	12	3'-1"	3'-4"	3'-4"	0.412	0.267	0.263	0.031	0.047
18"	2'-4"	2'-4"	2'-0"	14	3'-0"	3'-4"	3'-4"	0.469	0.314	0.290	0.044	0.060
24"	3'-0"	3'-0"	3'-0"	16	4'-1"	4'-4"	4'-4"	0.665	1.176	0.362	0.075	0.103
30"	3'-4"	3'-4"	3'-4"	18	4'-0"	4'-4"	4'-4"	0.867	1.481	0.365	0.122	0.170
36"	4'-0"	4'-0"	4'-0"	20	5'-1"	5'-4"	5'-4"	1.033	1.859	0.461	0.175	0.238
42"	4'-4"	4'-4"	4'-4"	22	5'-0"	5'-4"	5'-4"	1.333	2.203	0.627	0.240	0.323
48"	5'-0"	5'-0"	5'-0"	24	6'-1"	6'-4"	6'-4"	1.488	2.940	0.650	0.313	0.422
54"	5'-4"	5'-4"	5'-4"	26	6'-0"	6'-4"	6'-4"	1.729	3.402	0.650	0.360	0.503
60"	6'-0"	6'-0"	6'-0"	28	7'-1"	7'-4"	7'-4"	1.992	4.119	0.658	0.489	0.660
66"	6'-4"	6'-4"	6'-4"	30	7'-0"	7'-4"	7'-4"	2.273	4.778	0.706	0.581	0.786

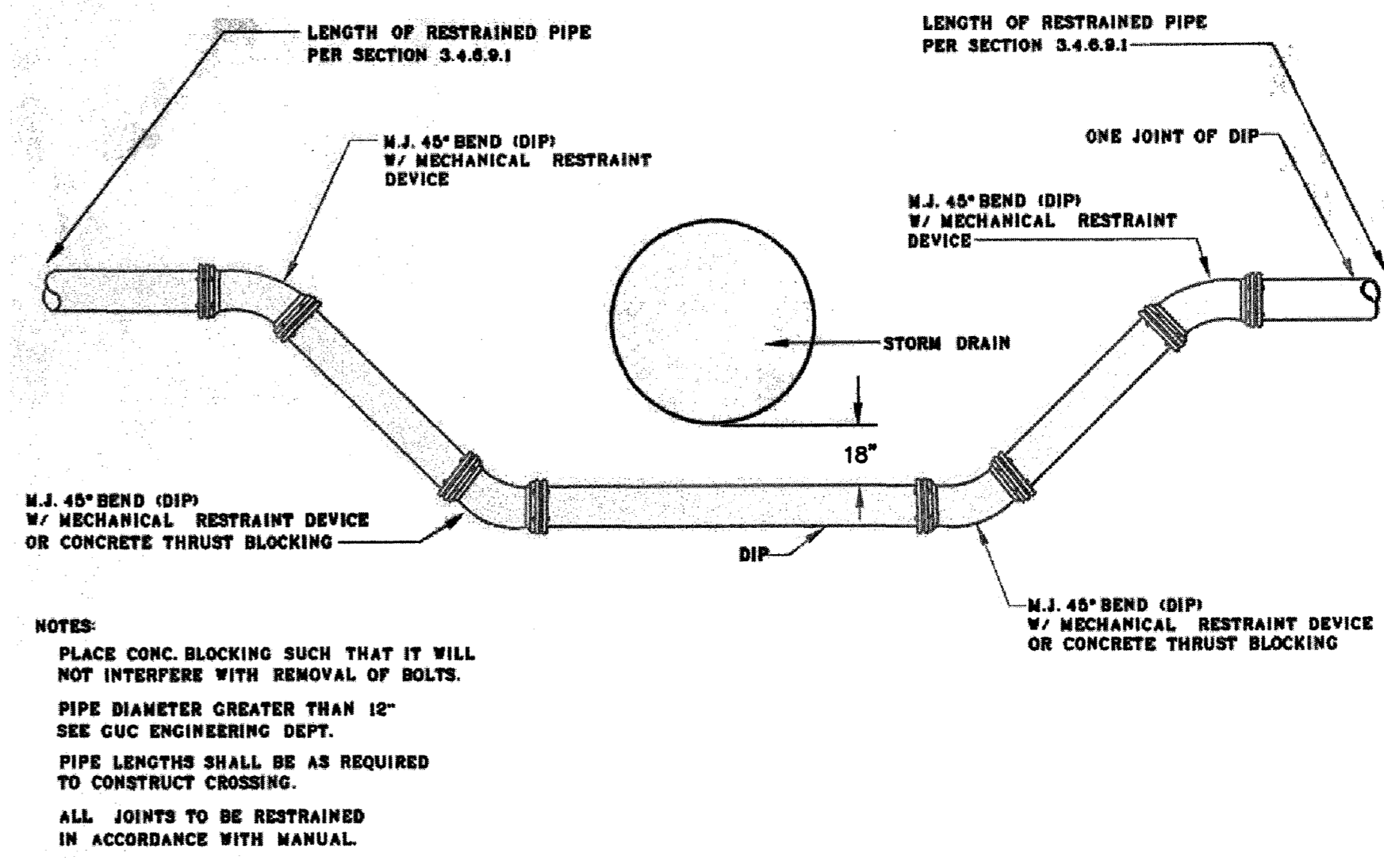
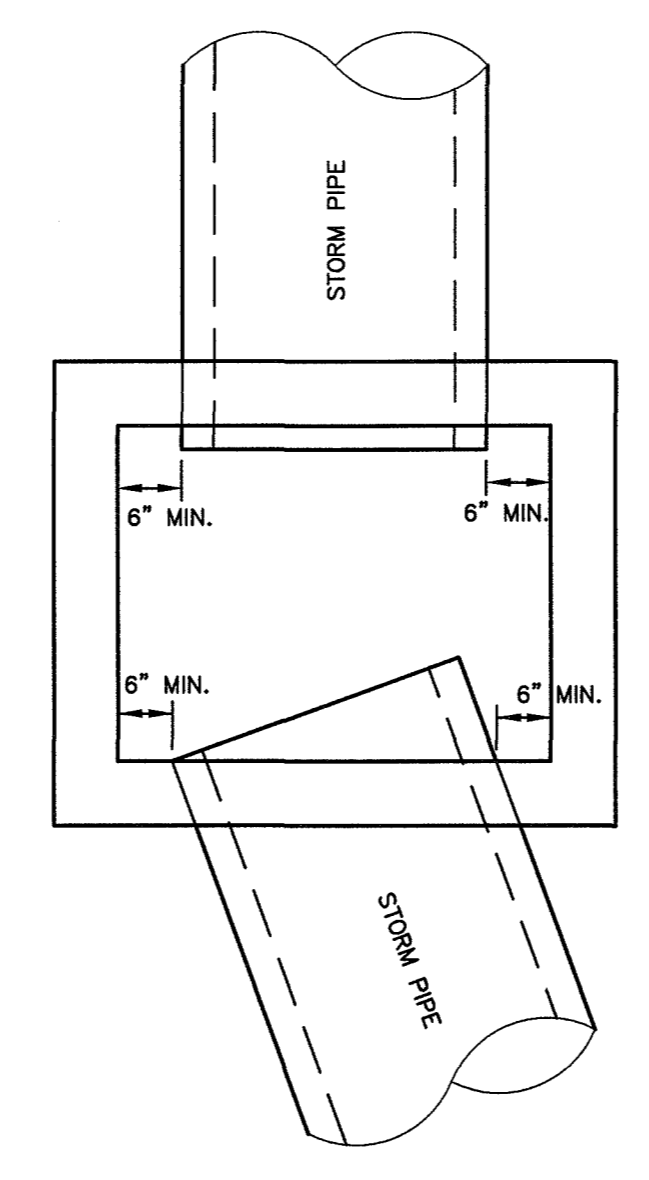
NOTES:
 1. Use #5 bar dowels at 12" centers.
 2. If reinforced concrete pipe is set in base slab of box, add to base as shown on std. detail 610.03.
 3. Adjust the steel, concrete and brick masonry quantities to include the addition of the manhole (i.e. diagonal bars shortened around opening in top slab, additional variable height brick masonry, opening in top slab).
 4. Maximum depth of this structure from top to bottom slab to top elevation is 12'-0".
 5. See Std. detail No. 610.01 for standard notes.

5 BRICK JUNCTION BOX WITH MANHOLE
 C6.2 N.T.S.



NOTES:
 1. See sheet 2 of 2 for dimensions.

6 DRAINAGE BOX DETAIL
 C6.2 N.T.S.



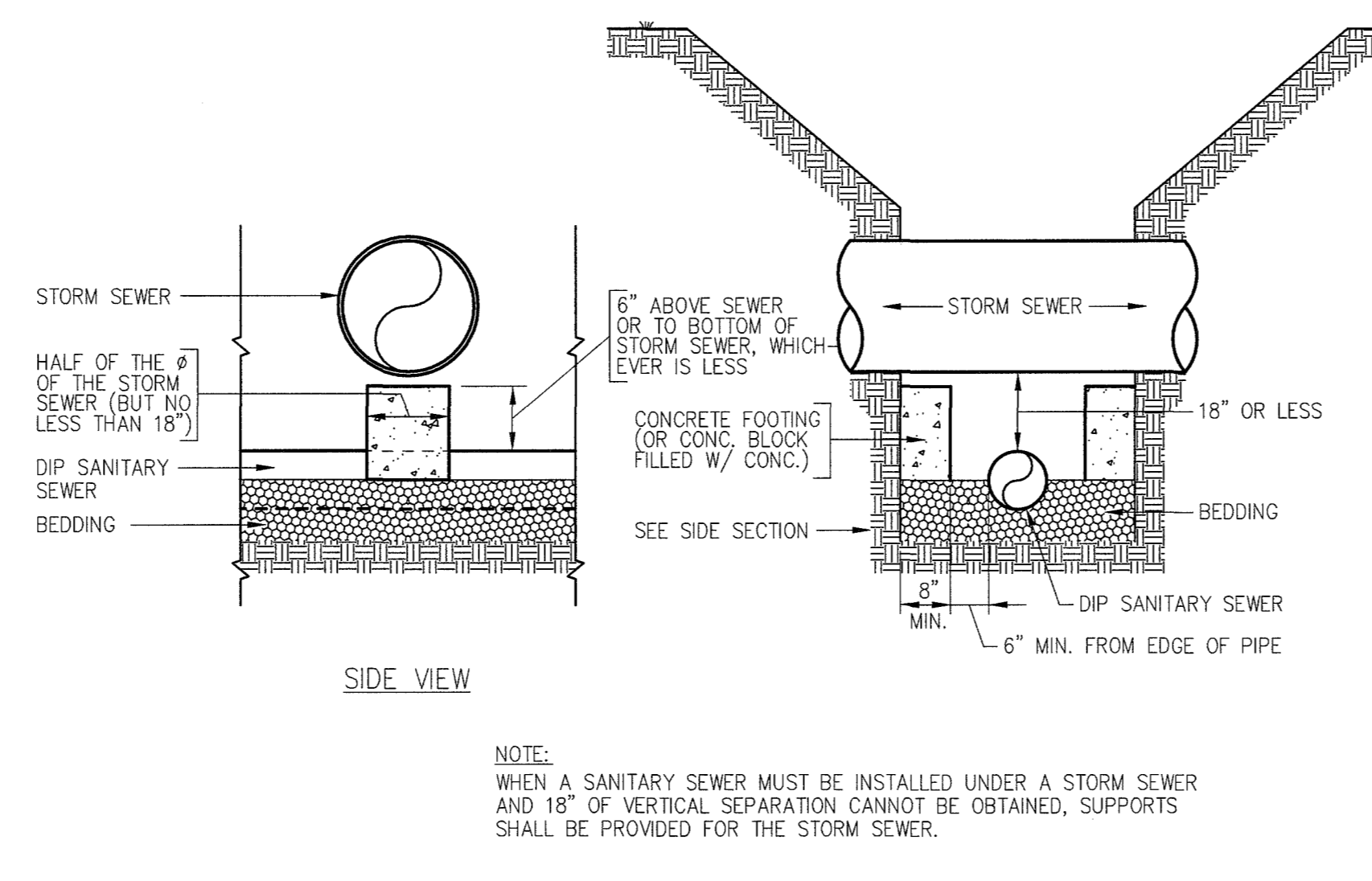
7 WATER/ STORM CROSSING
 C6.2 N.T.S.

DIMENSIONS AND QUANTITIES FOR BRICK JUNCTION BOXES

DIMENSIONS OF BOX & PIPE			
PIPE	SPAN	WIDTH	HEIGHT
72"	7'-0"	7'-9"	MIN.
84"	8'-0"	8'-9"	8'-0"
96"	9'-0"	9'-9"	9'-0"
108"	10'-0"	10'-9"	MAX.
120"	11'-0"	11'-9"	12'-0"

NOTES:
 1. SEE STD. 610.01 FOR STANDARD NOTES.
 2. SEE SHEET 2 OF 2 FOR FURTHER INFORMATION.
 3. DETAIL FOR DIMENSION PURPOSES ONLY.
 ALL BOXES OF THIS TYPE TO BE DESIGNED BY PROFESSIONAL ENGINEER.

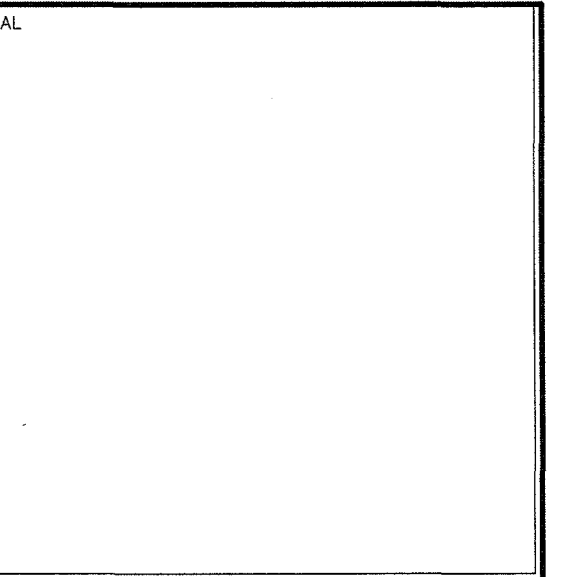
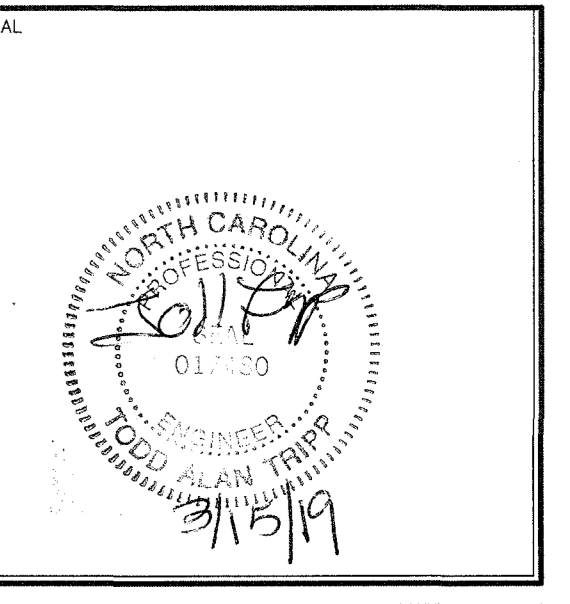
8 BRICK JUNCTION BOX (72" THRU 120" PIPE)
 C6.2 N.T.S.



9 SANITARY SEWER/ STORM CROSSING
 C6.2 N.T.S.

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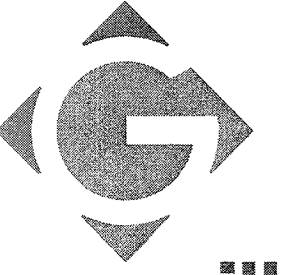
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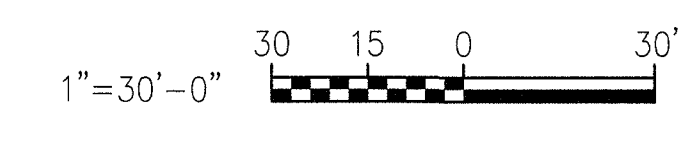
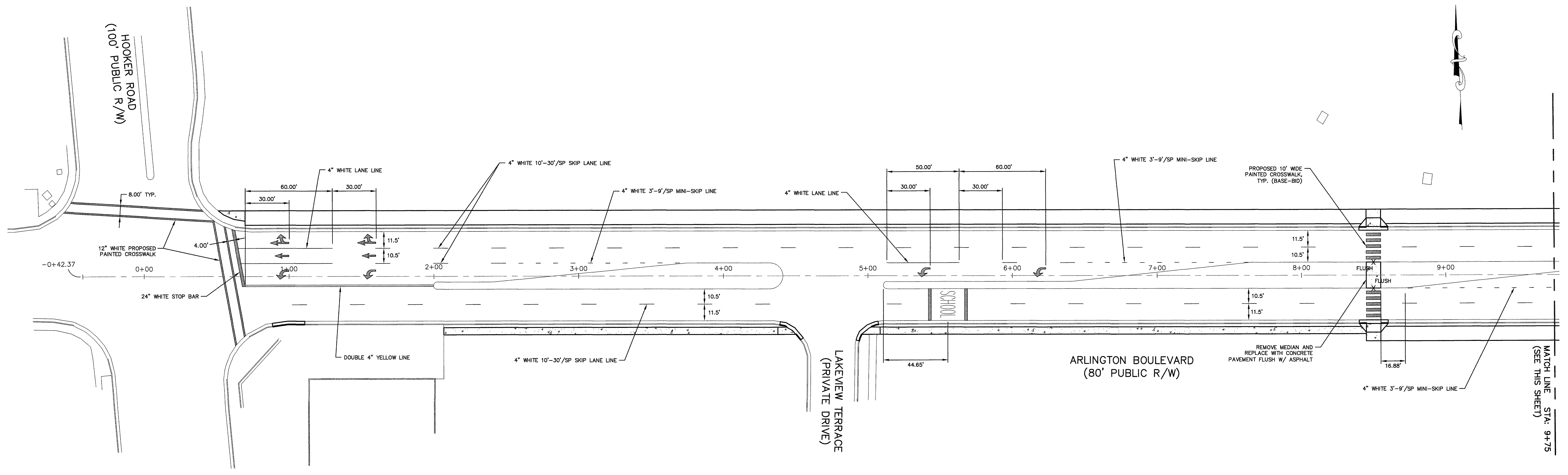
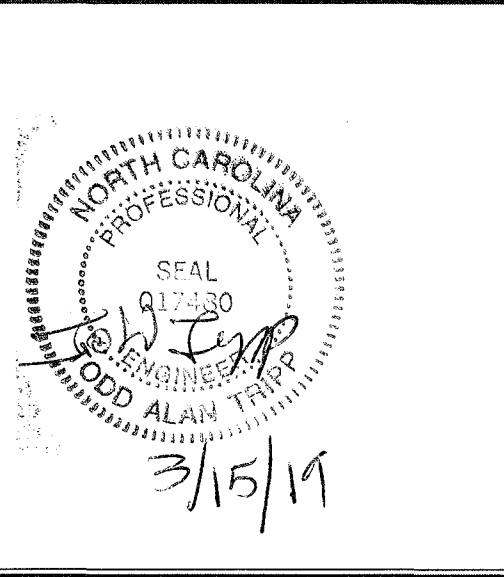
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 DRAWING NO.
C6.2

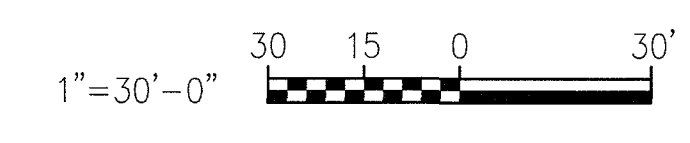
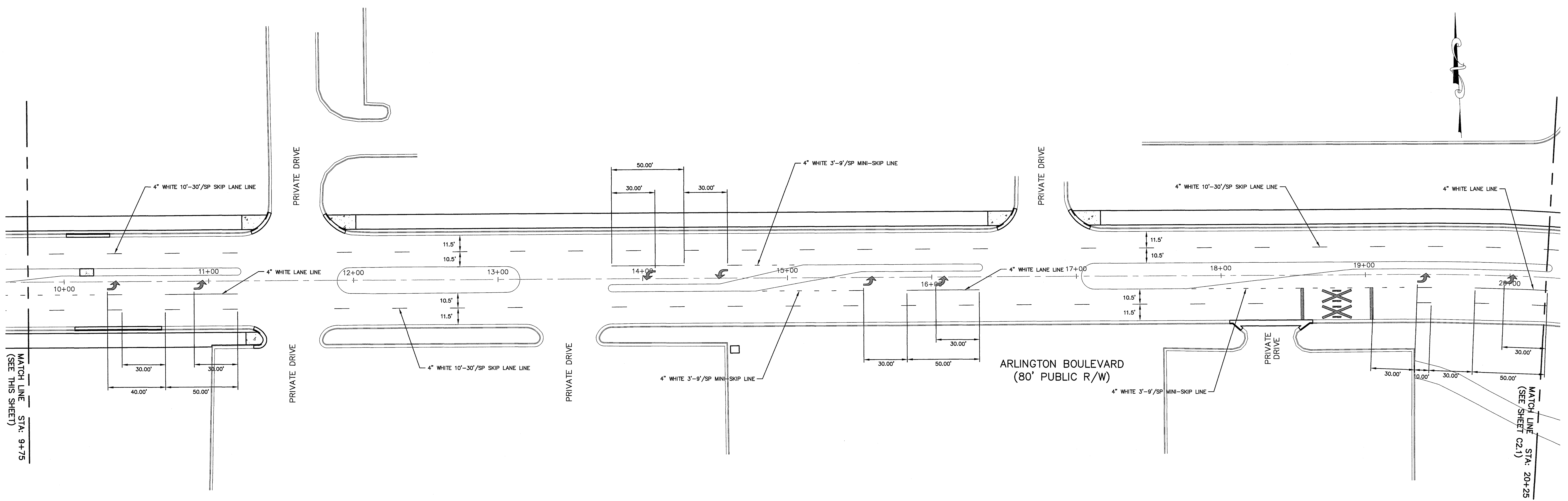
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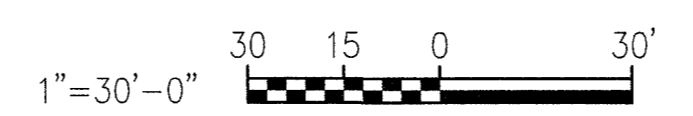
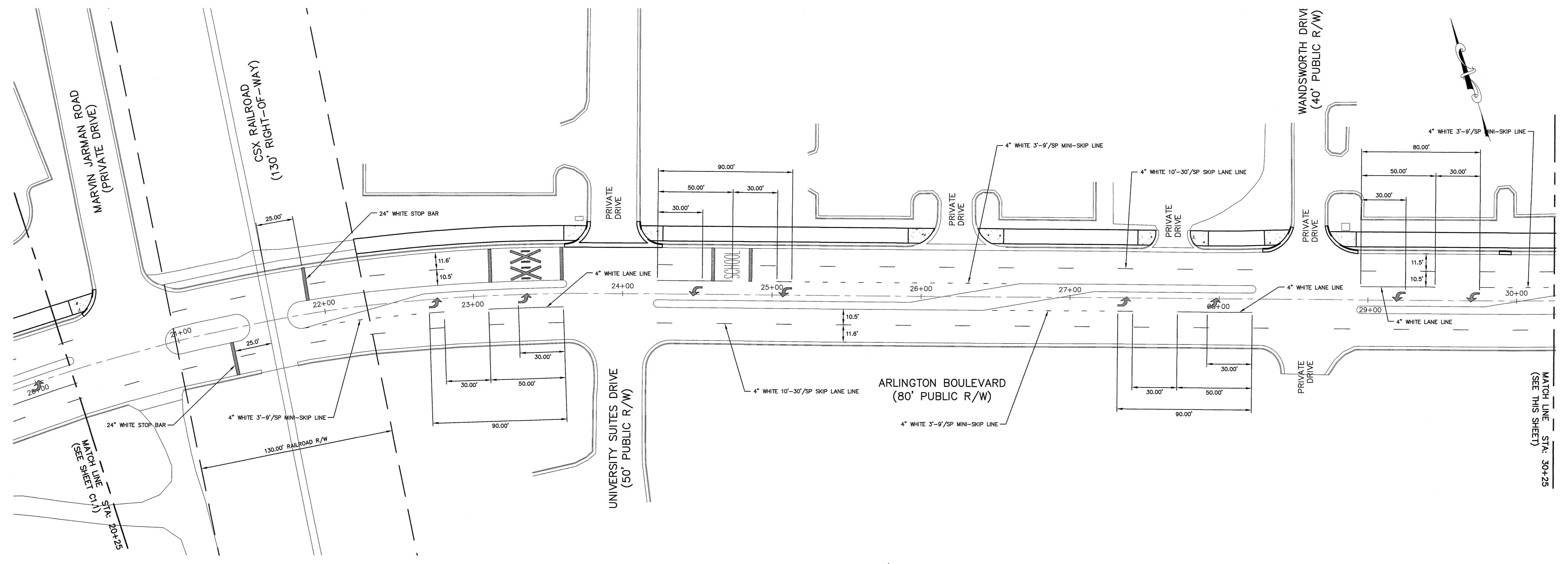
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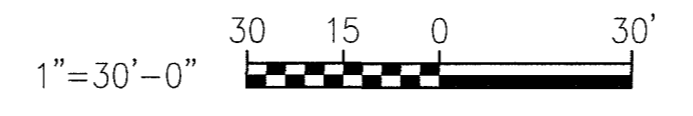
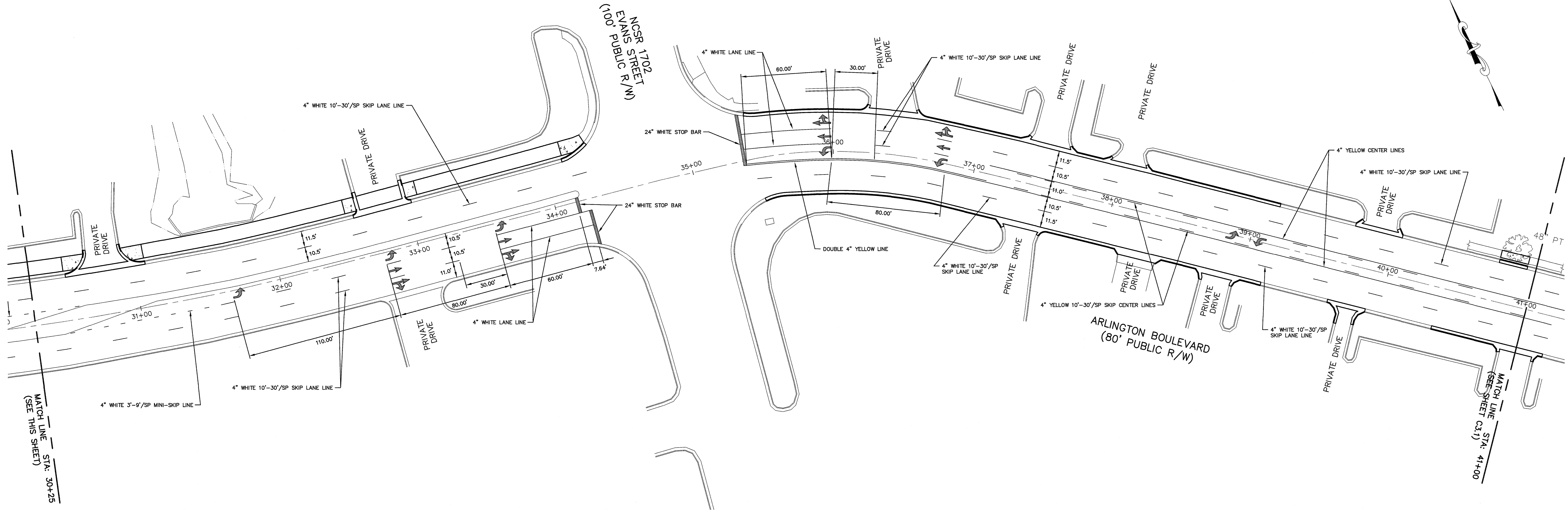
**CITY OF GREENVILLE
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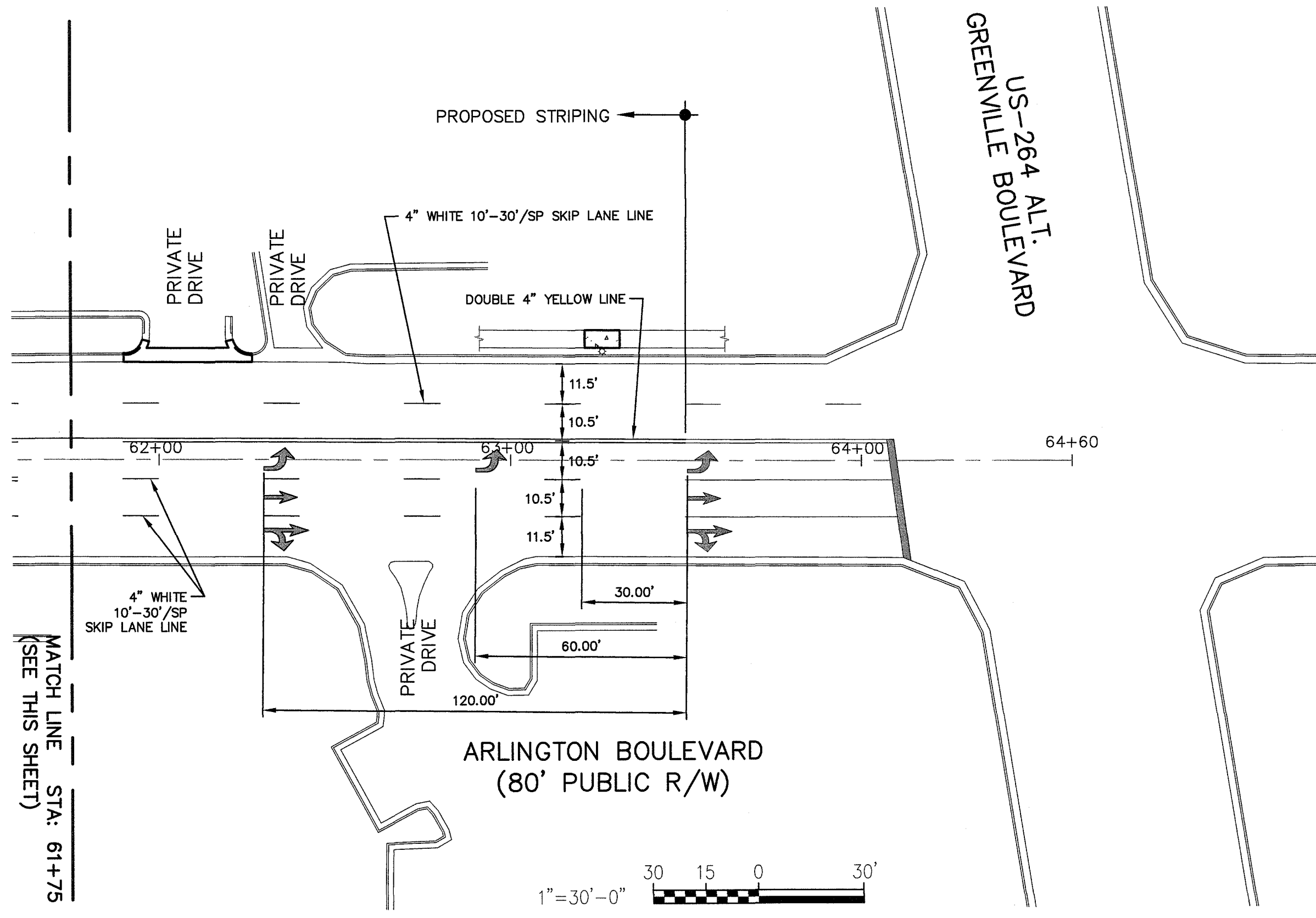
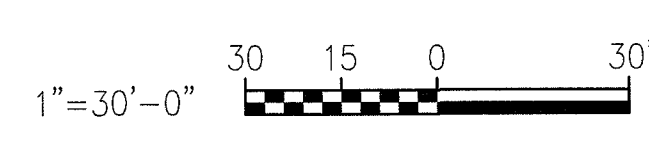
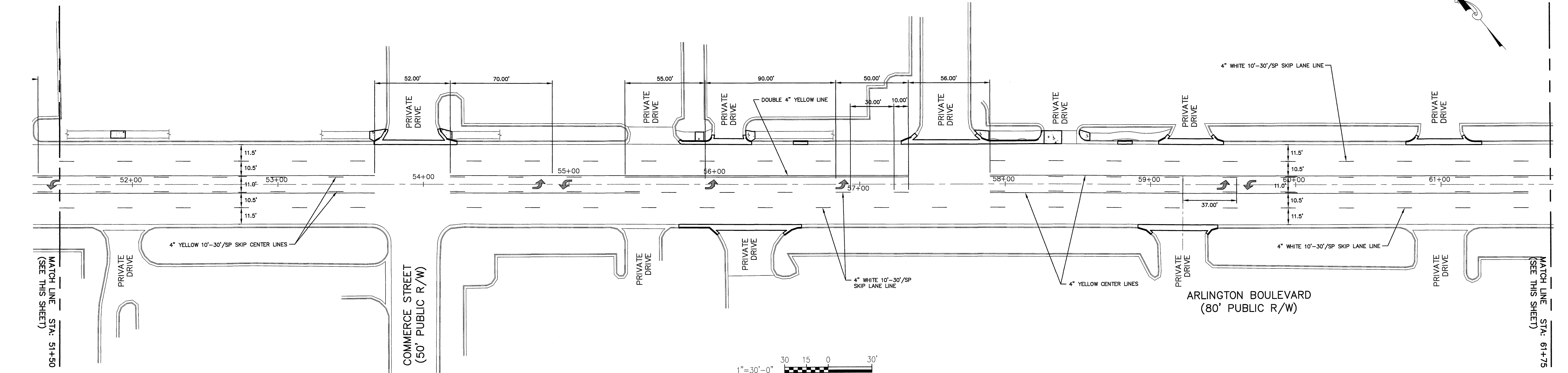
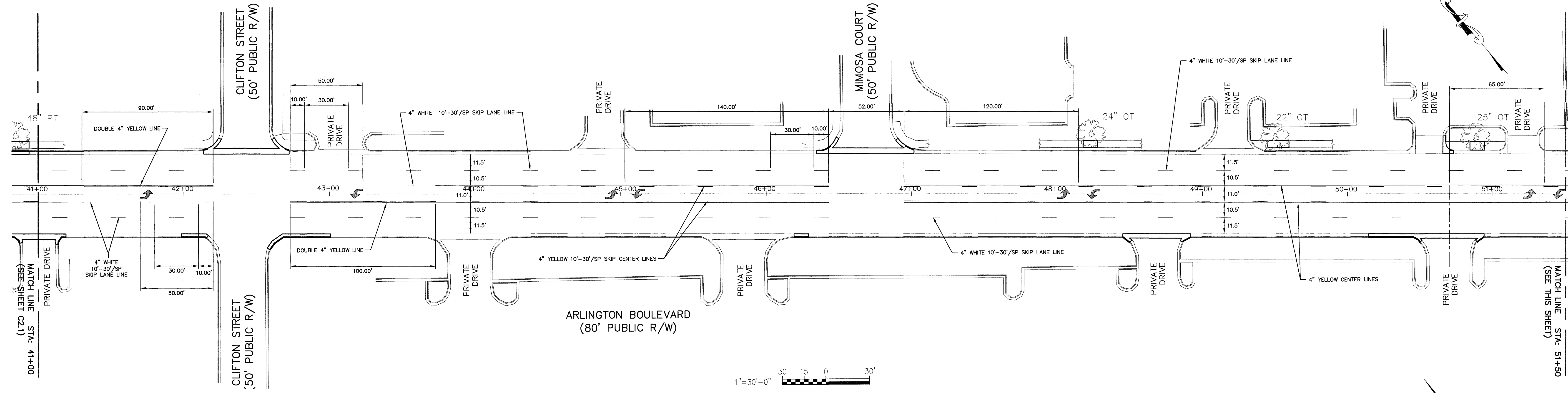
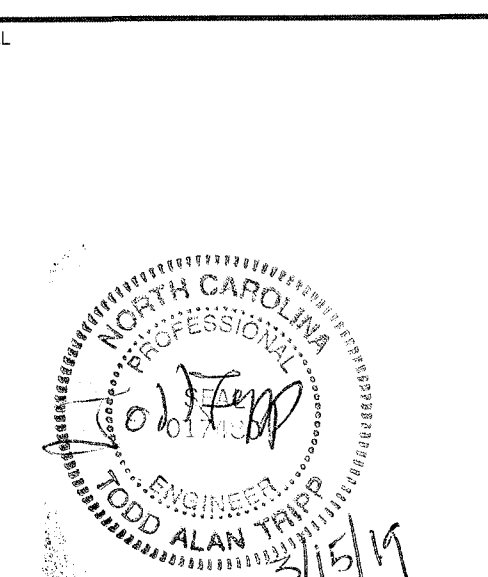
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STRIPING PLAN

DRAWING NO.
C9.1