

SYMBOL	PRACTICE	DESCRIPTION
	SILT FENCE	A TEMPORARY STRUCTURE USED TO SLOW THE VELOCITY OF RUN-OFF, CAUSE SEDIMENT DEPOSITION AT THE STRUCTURE, AND FILTER SEDIMENT FROM RUN-OFF.
	CONSTRUCTION LIMITS	A DEFINED AREA THAT ALL LAND DISTURBANCE WILL OCCUR DURING CONSTRUCTION.
	CONSTRUCTION ENTRANCE	A STONE STABILIZED PAD LOCATED AT ANY POINT THAT TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE TO A PUBLIC RIGHT-OF-WAY, STREET, ALLEY, SIDEWALK, OR PARKING LOT WHICH WILL REDUCE OR ELIMINATE THE TRANSPORT OF MUD FROM THE CONSTRUCTION SITE.
	DOUBLE SILT FENCE	A TEMPORARY STRUCTURE USED TO SLOW THE VELOCITY OF RUN-OFF, CAUSE SEDIMENT DEPOSITION AT THE STRUCTURE, AND FILTER SEDIMENT FROM RUN-OFF. USED ALONG EXISTING WETLANDS.

NOTE:  
REFER TO SEDIMENT AND EROSION CONTROL NOTES  
AND DETAILS FOR BMP INSTALLATION AND PROCEDURE.



ERIC K. SANFORD  
No. 29814  
5/17/21

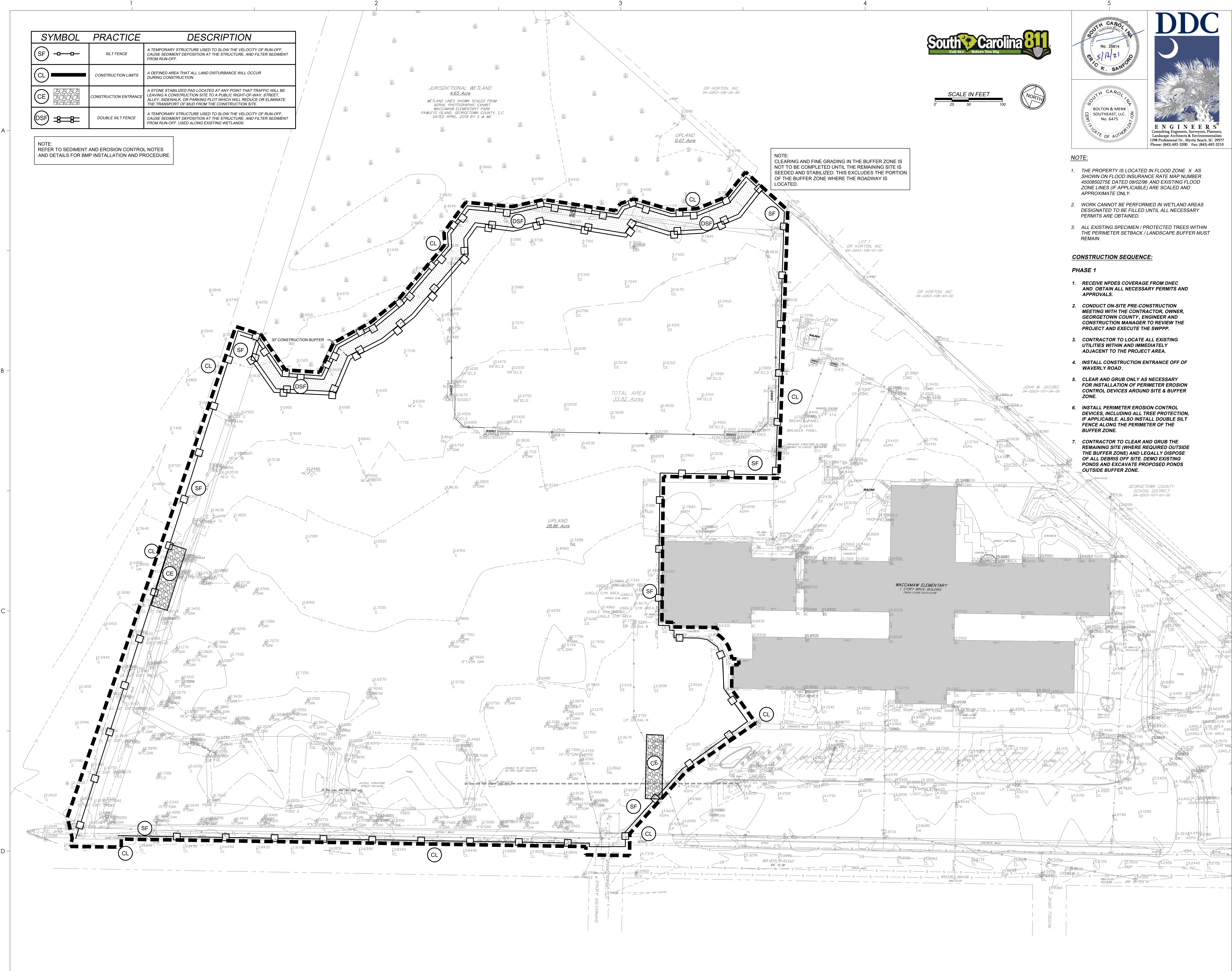
BOLTON & MENK  
SOUTHEAST, LLC  
No. 6475

**DDC**  
ENGINEERS  
Consulting Engineers, Surveyors, Planners,  
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1298 Professional Dr., Myrtle Beach, SC 29577  
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**SGA**  
**NarmourWright**  
DESIGN

8263 Ocean Highway  
Pawleys Island, SC 29585  
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NOTE:  
CLEARING AND FINE GRADING IN THE BUFFER ZONE IS NOT TO BE COMPLETED UNTIL THE REMAINING SITE IS SEEDING AND STABILIZED. THIS EXCLUDES THE PORTION OF THE BUFFER ZONE WHERE THE ROADWAY IS LOCATED.

NOTE:

- THE PROPERTY IS LOCATED IN FLOOD ZONE X AS SHOWN ON FLOOD INSURANCE RATE MAP NUMBER 4500850275E DATED 08/02/96 AND EXISTING FLOOD ZONE LINES (IF APPLICABLE) ARE SCALED AND APPROXIMATE ONLY.
- WORK CANNOT BE PERFORMED IN WETLAND AREAS DESIGNATED TO BE FILLED UNTIL ALL NECESSARY PERMITS ARE OBTAINED.
- ALL EXISTING SPECIMEN / PROTECTED TREES WITHIN THE PERIMETER SETBACK / LANDSCAPE BUFFER MUST REMAIN.

**CONSTRUCTION SEQUENCE:**

**PHASE 1**

- RECEIVE NPDES COVERAGE FROM DHEC AND OBTAIN ALL NECESSARY PERMITS AND APPROVALS.
- CONDUCT ON-SITE PRE-CONSTRUCTION MEETING WITH THE CONTRACTOR, OWNER, GEORGETOWN COUNTY, ENGINEER AND CONSTRUCTION MANAGER TO REVIEW THE PROJECT AND EXECUTE THE SWPPP.
- CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WITHIN AND IMMEDIATELY ADJACENT TO THE PROJECT AREA.
- INSTALL CONSTRUCTION ENTRANCE OFF OF WAVERLY ROAD.
- CLEAR AND GRUB ONLY AS NECESSARY FOR INSTALLATION OF PERIMETER EROSION CONTROL DEVICES AROUND SITE & BUFFER ZONE.
- INSTALL PERIMETER EROSION CONTROL DEVICES, INCLUDING ALL TREE PROTECTION, IF APPLICABLE. ALSO INSTALL DOUBLE SILT FENCE ALONG THE PERIMETER OF THE BUFFER ZONE.
- CONTRACTOR TO CLEAR AND GRUB THE REMAINING SITE (WHERE REQUIRED OUTSIDE THE BUFFER ZONE) AND LEGALLY DISPOSE OF ALL DEBRIS OFF SITE. DEMO EXISTING PONDS AND EXCAVATE PROPOSED PONDS OUTSIDE BUFFER ZONE.

**WAVERLY PARK**  
AT  
WACCAMAW ELEMENTARY SCHOOL  
1364 WAVERLY RD.  
PAWLEYS ISLAND, SC 29585

PROJECT NUMBER: 19101E  
ISSUE DATE: 11/13/2020  
DRAWN BY: JBE  
CHECKED BY: EKS  
**Permit Drawings**

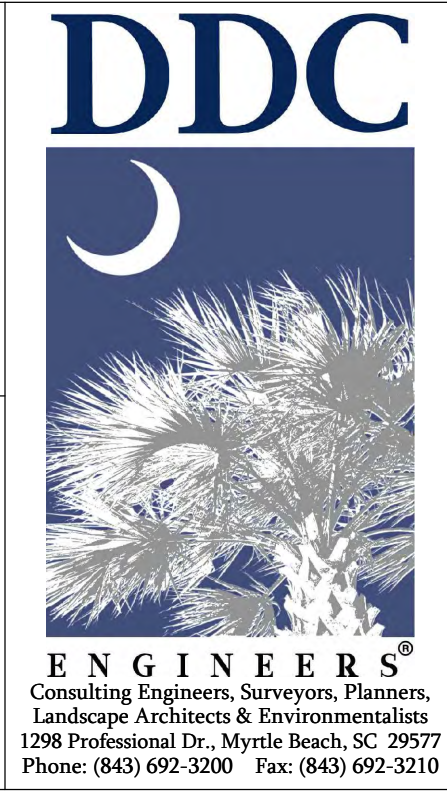
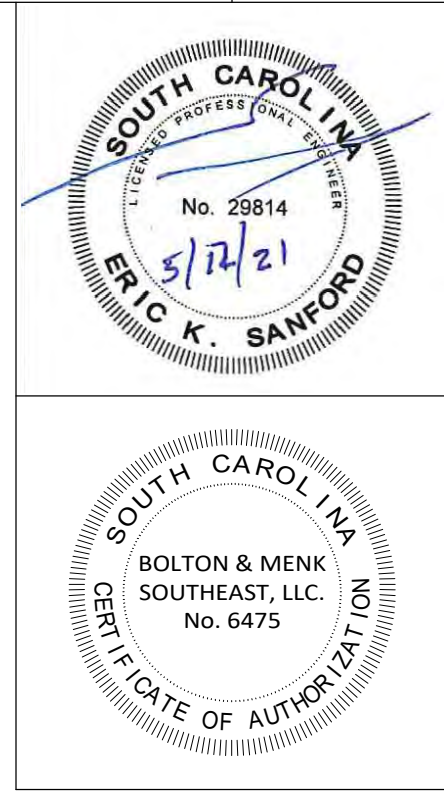
Revision Schedule		
#	Description	Date
2	SCDHEC COMMENTS	2-04-21
4	GT. STORM COMMENTS	4-14-21
5	GT. STORM COMMENTS	5-05-21

SEDIMENT &  
EROSION CONTROL  
PLAN - PHASE 1

C-201

SYMBOL	PRACTICE	DESCRIPTION
CL	CONSTRUCTION LIMITS	A DEFINED AREA THAT ALL LAND DISTURBANCE WILL OCCUR DURING CONSTRUCTION.
SF	SILT FENCE	A TEMPORARY STRUCTURE USED TO SLOW THE VELOCITY OF RUN-OFF, CAUSE SEDIMENT DEPOSITION AT THE STRUCTURE, AND FILTER SEDIMENT FROM RUN-OFF.
IP	INLET PROTECTION	A TEMPORARY SEDIMENT BARRIER LAID AROUND A STORM DRAIN INLET TO PREVENT SEDIMENT FROM ENTERING THE DRAINAGE SYSTEM.
DSF	DOUBLE SILT FENCE	A TEMPORARY STRUCTURE USED TO SLOW THE VELOCITY OF RUN-OFF, CAUSE SEDIMENT DEPOSITION AT THE STRUCTURE, AND FILTER SEDIMENT FROM RUN-OFF. USED ALONG EXISTING WETLANDS.
OP	OUTLET PROTECTION	RIP RAP CHANNEL / BANK PLACED BELOW DRAINAGE OUTLETS TO REDUCE THE VELOCITY OF FLOW, EROSION, AND STABILIZE GRADES DOWNSTREAM OF OUTLET STRUCTURES.
CE	CONSTRUCTION ENTRANCE	A STONE STABILIZED PAD LOCATED AT ANY POINT THAT TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE TO A PUBLIC RIGHT-OF-WAY, STREET, ALLEY, SIDEWALK, OR PARKING LOT WHICH WILL REDUCE OR ELIMINATE THE TRANSPORT OF MUD FROM THE CONSTRUCTION SITE.
CWA	CONCRETE WASHOUT AREA	TEMPORARY FACILITY PROVIDED ON-SITE FOR CONCRETE TRUCKS TO WASHOUT PRIOR TO LEAVING CONSTRUCTION SITE. CONTRACTOR MAY RELOCATE ELSEWHERE ON-SITE PENDING CONSTRUCTION ACTIVITIES.

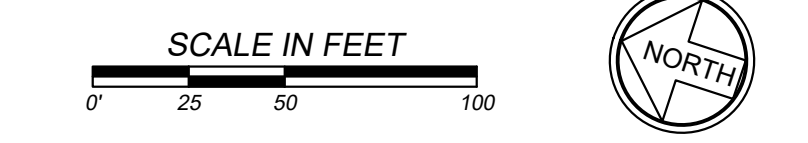
SYMBOL	PRACTICE	DESCRIPTION	
CL	CONSTRUCTION LIMITS	A DEFINED AREA THAT ALL LAND DISTURBANCE WILL OCCUR DURING CONSTRUCTION.	
SEEDING SCHEDULE FOR TEMPORARY VEGETATION			
NOTES: OAT GRASS IS TO BE ADDED TO ALL SCHEDULES, IF SEEDING DATE IS BETWEEN MARCH 1 AND APRIL 15, AT THE RATE OF 10 POUNDS PER ACRE. THE CONTRACTOR SHALL OBTAIN A SATISFACTORY STAND OF VEGETATION THAT IS CAPABLE OF EROSION CONTROL. CONTRACTOR SHALL DETERMINE ALL RATES OF APPLICATION NECESSARY TO PRODUCE THE REQUIRED RESULTS. THE TEMPORARY VEGETATION SHALL PROVIDE MINIMUM DENSITY COVERAGE OF 70% OF THE SEEDING AREA. THE CONTRACTOR MAY INCLUDE QUANTITIES OF RYE GRASS AND MILLET IN SCHEDULE 1 AND 3 IN ORDER TO ESTABLISH QUICK GROUND COVER FOR EROSION CONTROL PURPOSES.			
SCHEDULE NO.	COMMON NAME OF SEED	RATE PER ACRE (LBS.)	PLANTING DATES
1	ANNUAL SLUDAN GRASS (SWEET OR TIF)	40	APRIL 1 TO AUGUST 15
2	BROWN TOP MILLET	50	APRIL 1 TO AUGUST 15
3	RYE GRASS	55	APRIL 16 TO MARCH 31
SEEDING SCHEDULE FOR PERMANENT VEGETATION			NOTES: GIANT BERMUDA SEED, INCLUDING NK-37, SHALL NOT BE USED. THE CONTRACTOR SHALL OBTAIN A SATISFACTORY STAND OF PERENNIAL VEGETATION WHOSE ROOT SYSTEM SHALL BE DEVELOPED SUFFICIENTLY TO SURVIVE DRY PERIODS AND WINTER WEATHER, AND BE CAPABLE OF RE-ESTABLISHMENT IN THE SPRING. THE PERENNIAL VEGETATIVE COVER SHALL HAVE A MINIMUM COVERAGE DENSITY OF 70% FOR THE SEEDING AREAS. CONTRACTOR SHALL DETERMINE ALL RATES OF APPLICATION NECESSARY TO PRODUCE THE REQUIRED STAND OF GRASS, AND SHALL FOLLOW THE APPLICATION PROCEDURES AS SPECIFIED HEREIN.
SCHEDULE NO.	COMMON NAME OF SEED	RATE PER ACRE (LBS.)	PLANTING DATES
1	COMMON BERMUDA (FOLDED)	210	MARCH 18 TO AUGUST 31
2	TALL FESCUE	140	SEPT. 1 TO MARCH 15
2	COMMON BERMUDA (UNFOLDED)	175	SEPT. 1 TO MARCH 15



**SGA NarmourWright DESIGN**

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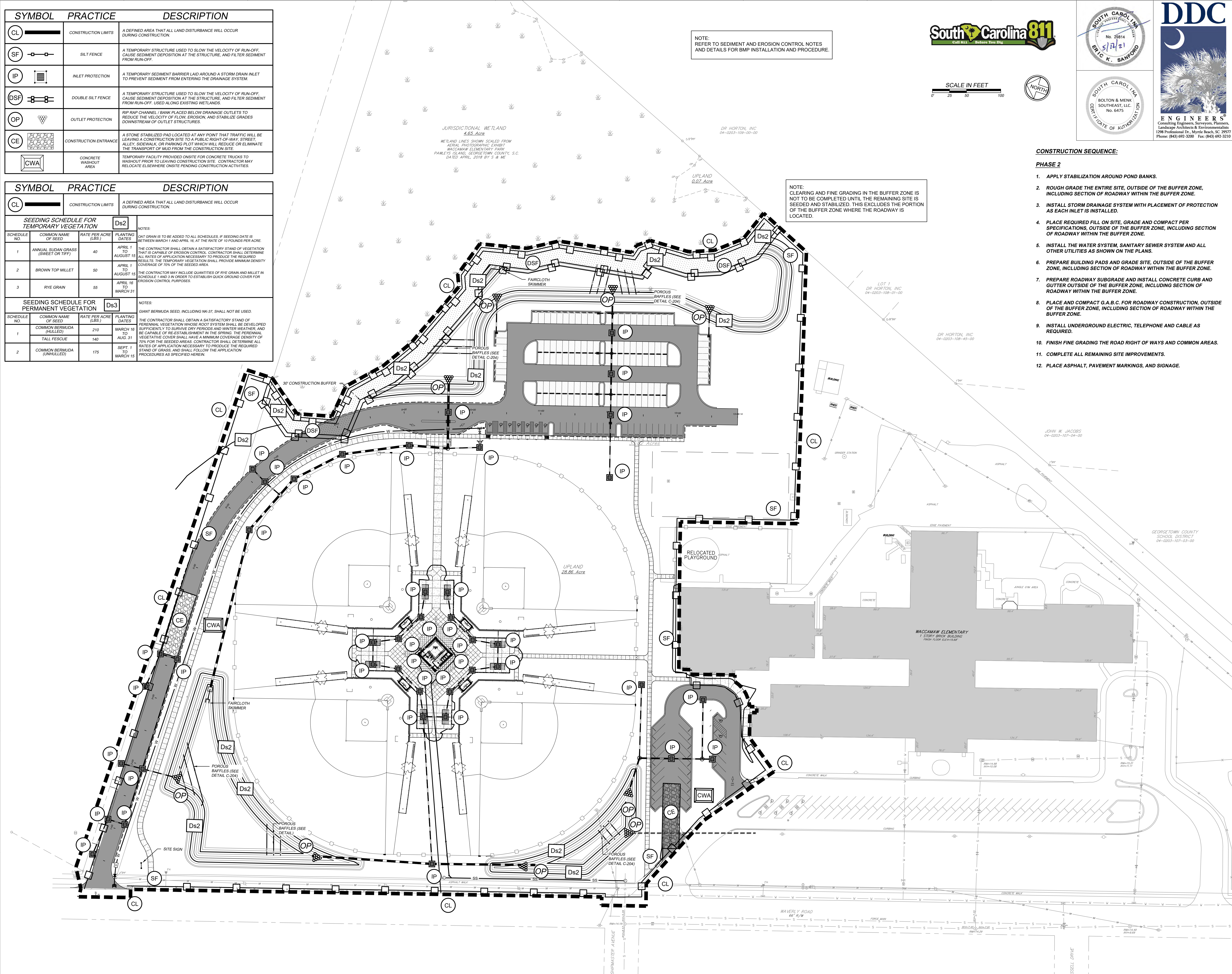


NOTE: REFER TO SEDIMENT AND EROSION CONTROL NOTES AND DETAILS FOR BMP INSTALLATION AND PROCEDURE.

NOTE: CLEARING AND FINE GRADING IN THE BUFFER ZONE IS NOT TO BE COMPLETED UNTIL THE REMAINING SITE IS SEEDING AND STABILIZED. THIS EXCLUDES THE PORTION OF THE BUFFER ZONE WHERE THE ROADWAY IS LOCATED.

**CONSTRUCTION SEQUENCE:**

- PHASE 2**
1. APPLY STABILIZATION AROUND POND BANKS.
  2. ROUGH GRADE THE ENTIRE SITE, OUTSIDE OF THE BUFFER ZONE, INCLUDING SECTION OF ROADWAY WITHIN THE BUFFER ZONE.
  3. INSTALL STORM DRAINAGE SYSTEM WITH PLACEMENT OF PROTECTION AS EACH INLET IS INSTALLED.
  4. PLACE REQUIRED FILL ON SITE, GRADE AND COMPACT PER SPECIFICATIONS, OUTSIDE OF THE BUFFER ZONE, INCLUDING SECTION OF ROADWAY WITHIN THE BUFFER ZONE.
  5. INSTALL THE WATER SYSTEM, SANITARY SEWER SYSTEM AND ALL OTHER UTILITIES AS SHOWN ON THE PLANS.
  6. PREPARE BUILDING PADS AND GRADE SITE, OUTSIDE OF THE BUFFER ZONE, INCLUDING SECTION OF ROADWAY WITHIN THE BUFFER ZONE.
  7. PREPARE ROADWAY SUBGRADE AND INSTALL CONCRETE CURB AND GUTTER OUTSIDE OF THE BUFFER ZONE, INCLUDING SECTION OF ROADWAY WITHIN THE BUFFER ZONE.
  8. PLACE AND COMPACT G.A.B.C. FOR ROADWAY CONSTRUCTION, OUTSIDE OF THE BUFFER ZONE, INCLUDING SECTION OF ROADWAY WITHIN THE BUFFER ZONE.
  9. INSTALL UNDERGROUND ELECTRIC, TELEPHONE AND CABLE AS REQUIRED.
  10. FINISH FINE GRADING THE ROAD RIGHT OF WAYS AND COMMON AREAS.
  11. COMPLETE ALL REMAINING SITE IMPROVEMENTS.
  12. PLACE ASPHALT, PAVEMENT MARKINGS, AND SIGNAGE.



**WAVERLY PARK**  
AT  
**WACCAMAW ELEMENTARY SCHOOL**  
1364 WAVERLY RD.  
PAWLEYS ISLAND, SC 29585

PROJECT NUMBER: 191E  
ISSUE DATE: 11/13/2020  
DRAWN BY: JBE  
CHECKED BY: EKS  
**Permit Drawings**

#	Description	Date
2	SCDHEC COMMENTS	2-04-21
4	GT. STORM COMMENTS	4-14-21
5	GT. STORM COMMENTS	5-05-21

SEDIMENT & EROSION CONTROL PLAN - PHASE 2

**C-202**

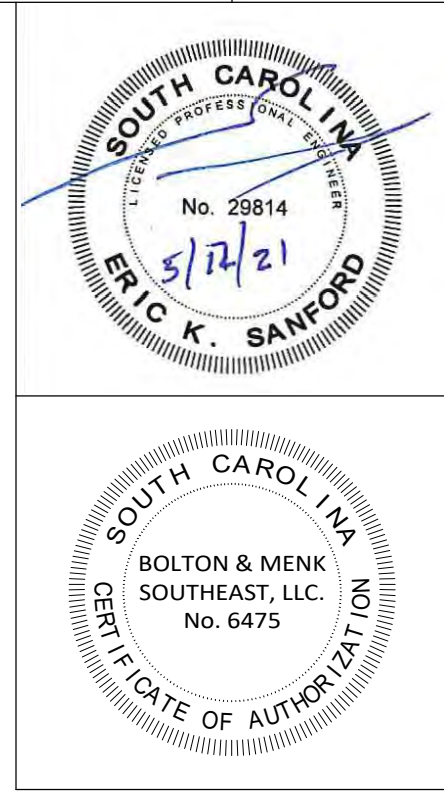
SYMBOL	PRACTICE	DESCRIPTION
CL	CONSTRUCTION LIMITS	A DEFINED AREA THAT ALL LAND DISTURBANCE WILL OCCUR DURING CONSTRUCTION.
SEEDING SCHEDULE FOR TEMPORARY VEGETATION		
		Ds2
SCHEDULE NO.	COMMON NAME OF SEED	RATE PER ACRE (LBS.)
1	ANNUAL SUDAN GRASS (SWEET OR TIPP)	40
2	BROWN TOP MILLET	80
3	RYE GRASS	55
		PLANTING DATES
		APRIL 1 TO AUGUST 15
		APRIL 1 TO AUGUST 15
		APRIL 16 TO MARCH 31
NOTES:		
OAT GRASS IS TO BE ADDED TO ALL SCHEDULES. IF SEEDING DATE IS BETWEEN MARCH 1 AND APRIL 15 AT THE RATE OF 10 POUNDS PER ACRE.		
THE CONTRACTOR SHALL OBTAIN A SATISFACTORY STAND OF VEGETATION THAT IS CAPABLE OF EROSION CONTROL. CONTRACTOR SHALL DETERMINE ALL RATES OF APPLICATION NECESSARY TO PRODUCE THE REQUIRED RESULTS. THE TEMPORARY VEGETATION SHALL PROVIDE MINIMUM DENSITY COVERAGE OF 70% OF THE SEEDING AREA.		
THE CONTRACTOR MAY INCLUDE QUANTITIES OF RYE GRASS AND MILLET IN SCHEDULE 1 AND 3 IN ORDER TO ESTABLISH QUICK GROUND COVER FOR EROSION CONTROL PURPOSES.		
SEEDING SCHEDULE FOR PERMANENT VEGETATION		
		Ds3
SCHEDULE NO.	COMMON NAME OF SEED	RATE PER ACRE (LBS.)
1	COMMON BERMIUDA (HULLED)	210
2	TALL FESCUE	140
3	COMMON BERMIUDA (UNHULLED)	175
		PLANTING DATES
		MARCH 16 TO AUG. 31
		SEPT. 1 TO MARCH 15
NOTES:		
GIANT BERMIUDA SEED, INCLUDING NK-37, SHALL NOT BE USED.		
THE CONTRACTOR SHALL OBTAIN A SATISFACTORY STAND OF PERENNIAL VEGETATION WHOSE ROOT SYSTEM SHALL BE DEVELOPED SUFFICIENTLY TO SURVIVE DRY PERIODS AND WINTER WEATHER, AND BE CAPABLE OF RE-ESTABLISHMENT IN THE SPRING. THE PERENNIAL VEGETATIVE COVER SHALL HAVE A MINIMUM COVERAGE DENSITY OF 70% FOR THE SEEDING AREAS. CONTRACTOR SHALL DETERMINE ALL RATES OF APPLICATION NECESSARY TO PRODUCE THE REQUIRED STAND OF GRASS, AND SHALL FOLLOW THE APPLICATION PROCEDURES AS SPECIFIED HEREIN.		

NOTE: REFER TO SEDIMENT AND EROSION CONTROL NOTES AND DETAILS FOR BMP INSTALLATION AND PROCEDURE.

NOTE: SEE ARCHITECTURAL PLANS FOR BALLFIELDS INFIELD/OUTFIELD MATERIAL SPECS/DESIGN



SCALE IN FEET  
0 25 50 100



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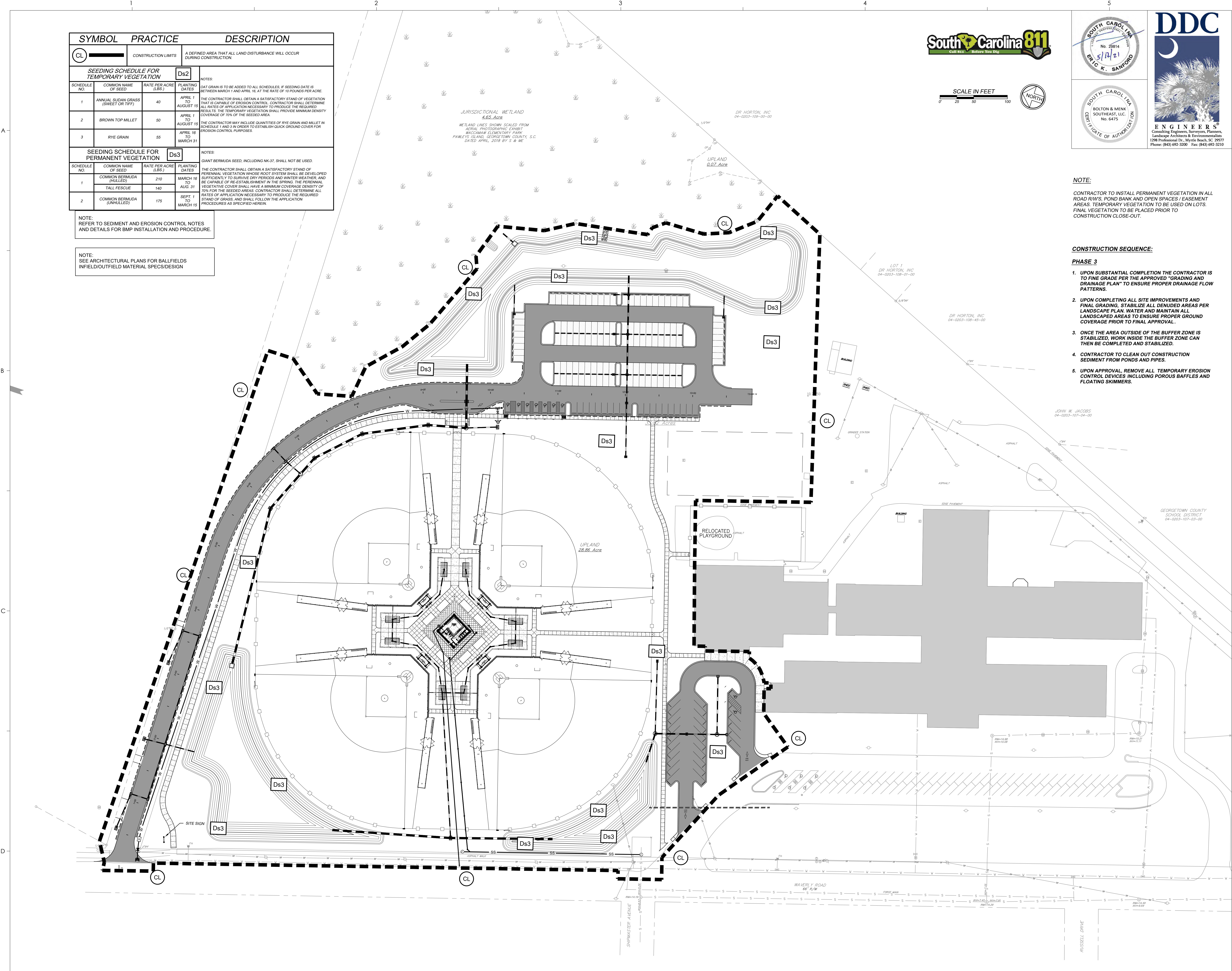
**NOTE:**

CONTRACTOR TO INSTALL PERMANENT VEGETATION IN ALL ROAD RIMS, POND BANK AND OPEN SPACES / EASEMENT AREAS. TEMPORARY VEGETATION TO BE USED ON LOTS. FINAL VEGETATION TO BE PLACED PRIOR TO CONSTRUCTION CLOSE-OUT.

**CONSTRUCTION SEQUENCE:**

**PHASE 3**

- UPON SUBSTANTIAL COMPLETION THE CONTRACTOR IS TO FINE GRADE PER THE APPROVED "GRADING AND DRAINAGE PLAN" TO ENSURE PROPER DRAINAGE FLOW PATTERNS.
- UPON COMPLETING ALL SITE IMPROVEMENTS AND FINAL GRADING, STABILIZE ALL DENUDEED AREAS PER LANDSCAPE PLAN. WATER AND MAINTAIN ALL LANDSCAPED AREAS TO ENSURE PROPER GROUND COVERAGE PRIOR TO FINAL APPROVAL.
- ONCE THE AREA OUTSIDE OF THE BUFFER ZONE IS STABILIZED, WORK INSIDE THE BUFFER ZONE CAN THEN BE COMPLETED AND STABILIZED.
- CONTRACTOR TO CLEAN OUT CONSTRUCTION SEDIMENT FROM PONDS AND PIPES.
- UPON APPROVAL, REMOVE ALL TEMPORARY EROSION CONTROL DEVICES INCLUDING POROUS BAFFLES AND FLOATING SKIMMERS.



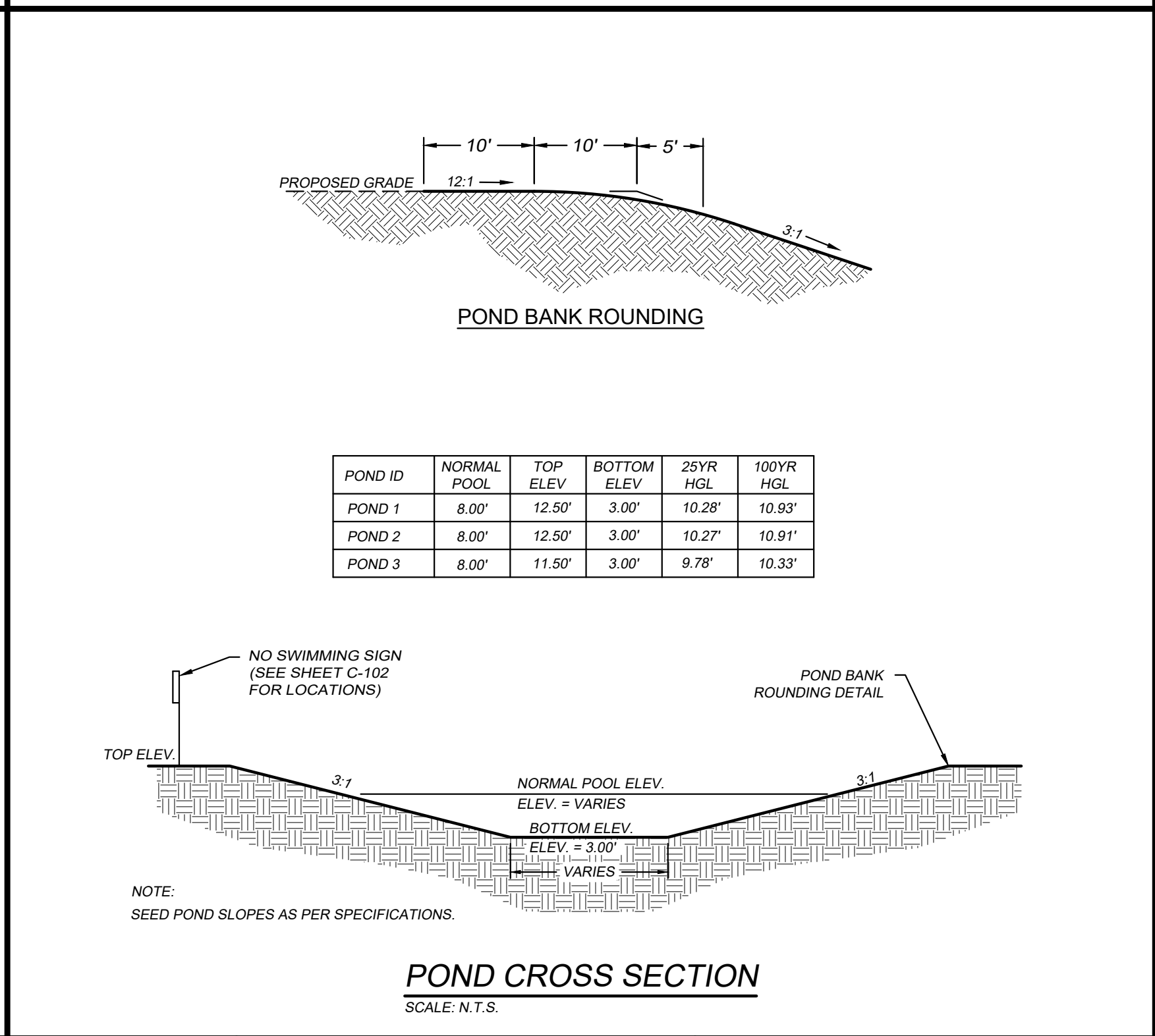
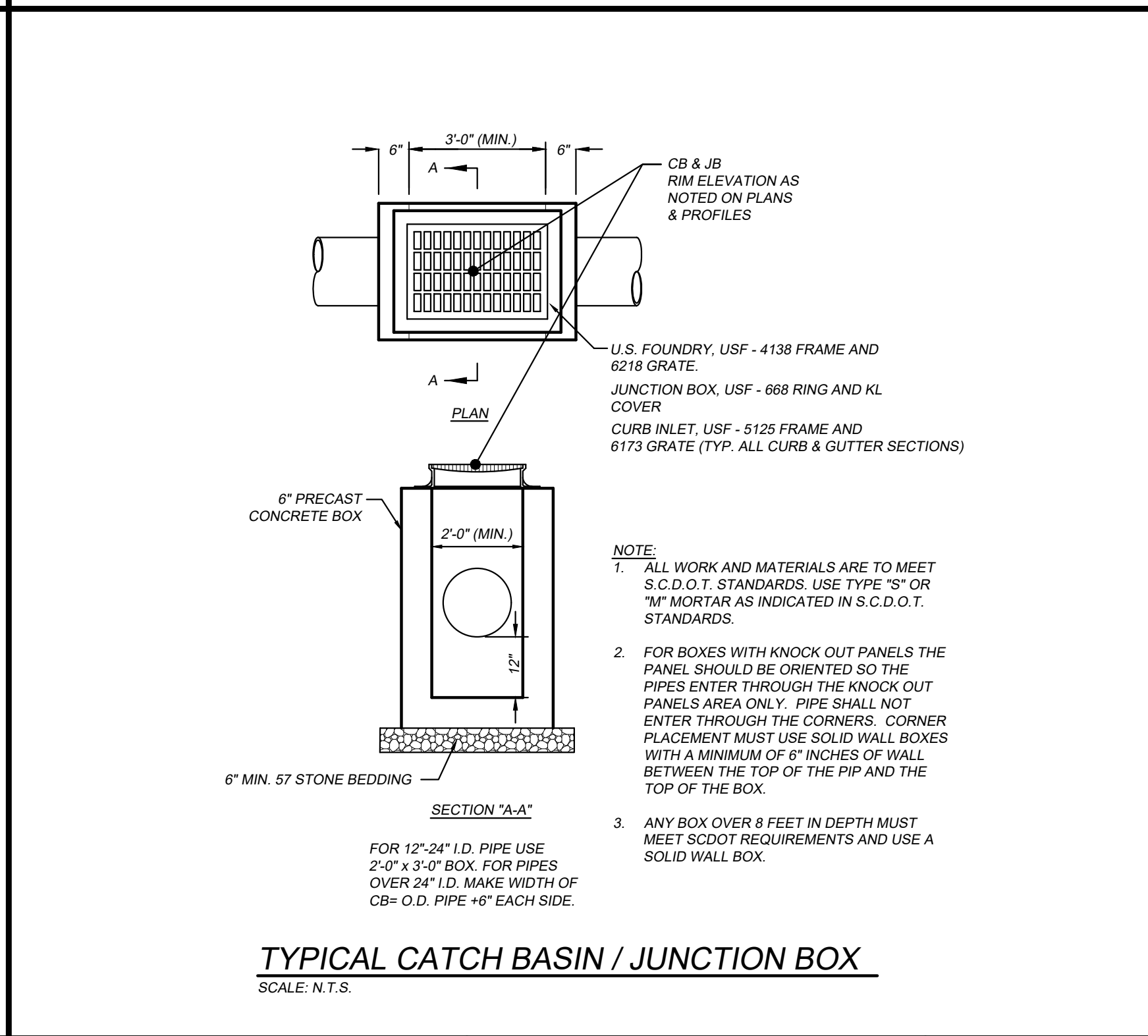
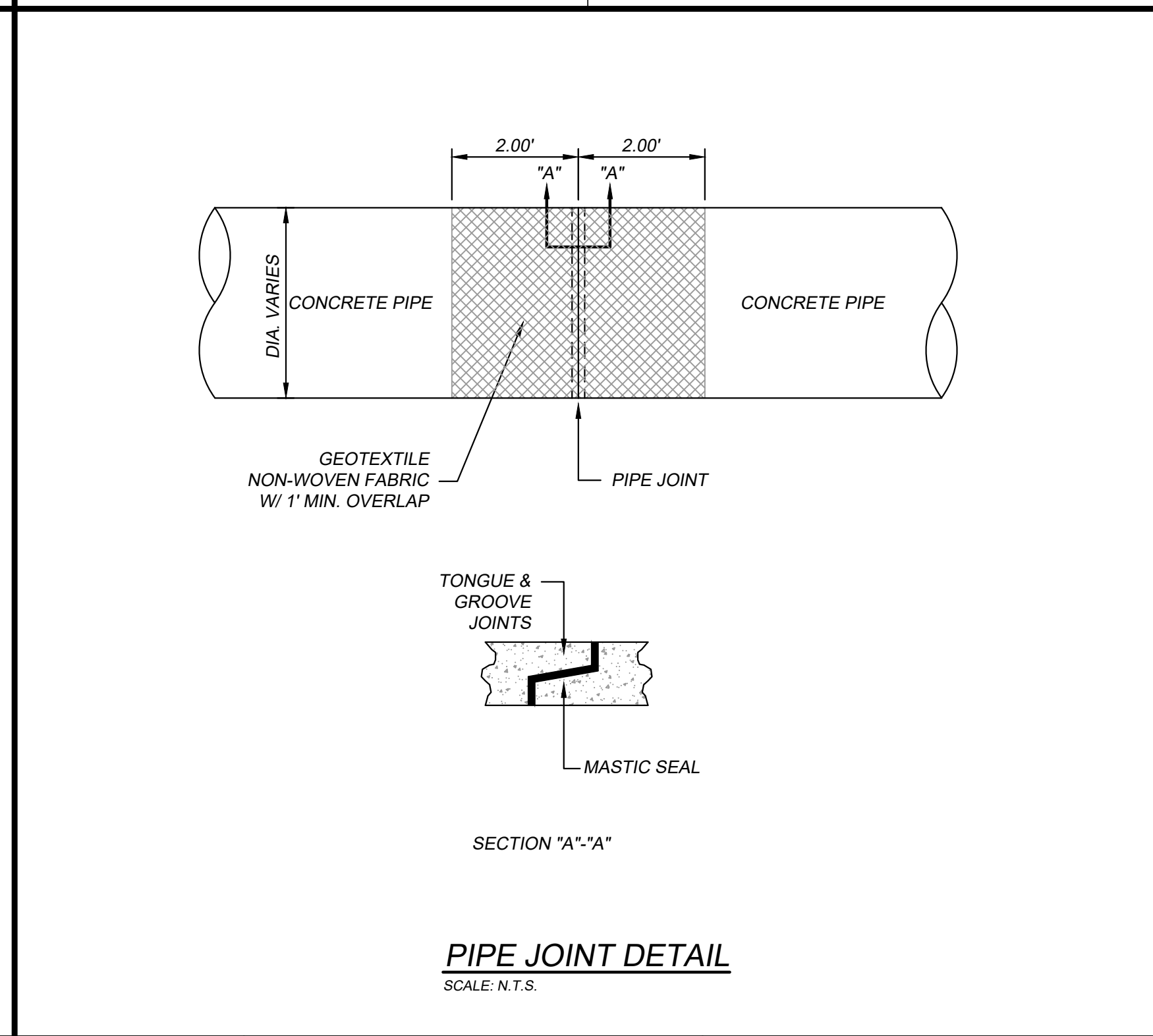
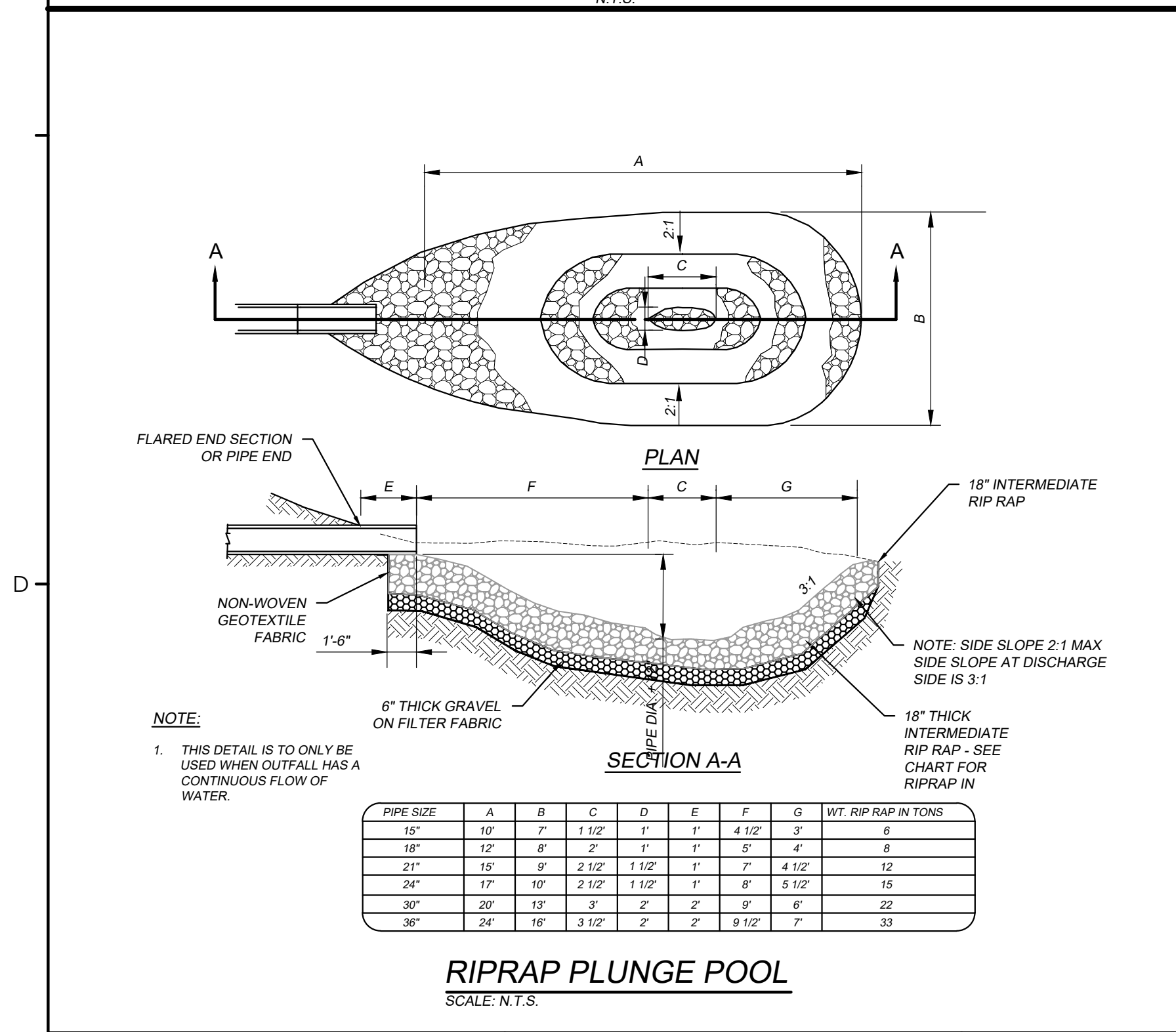
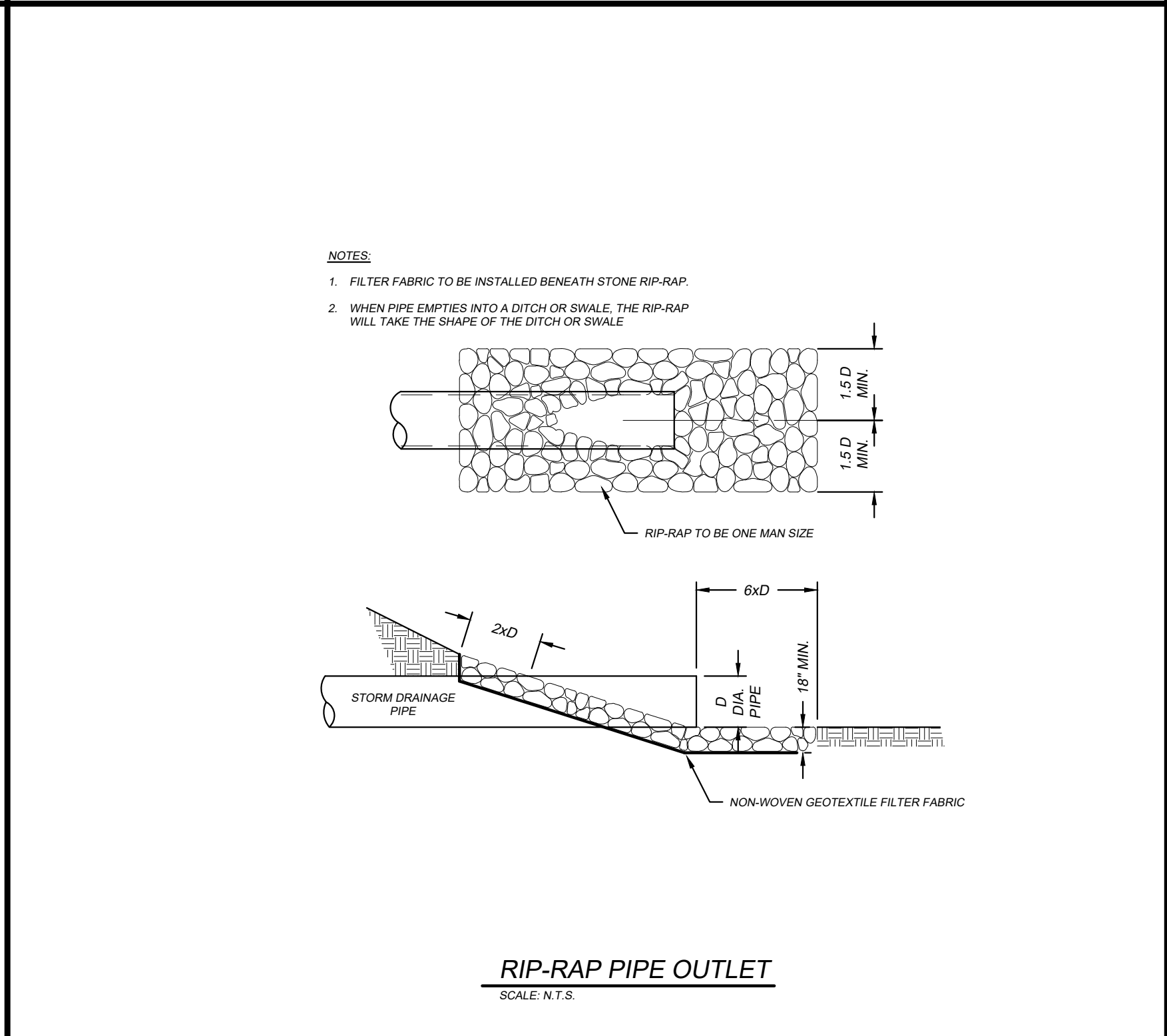
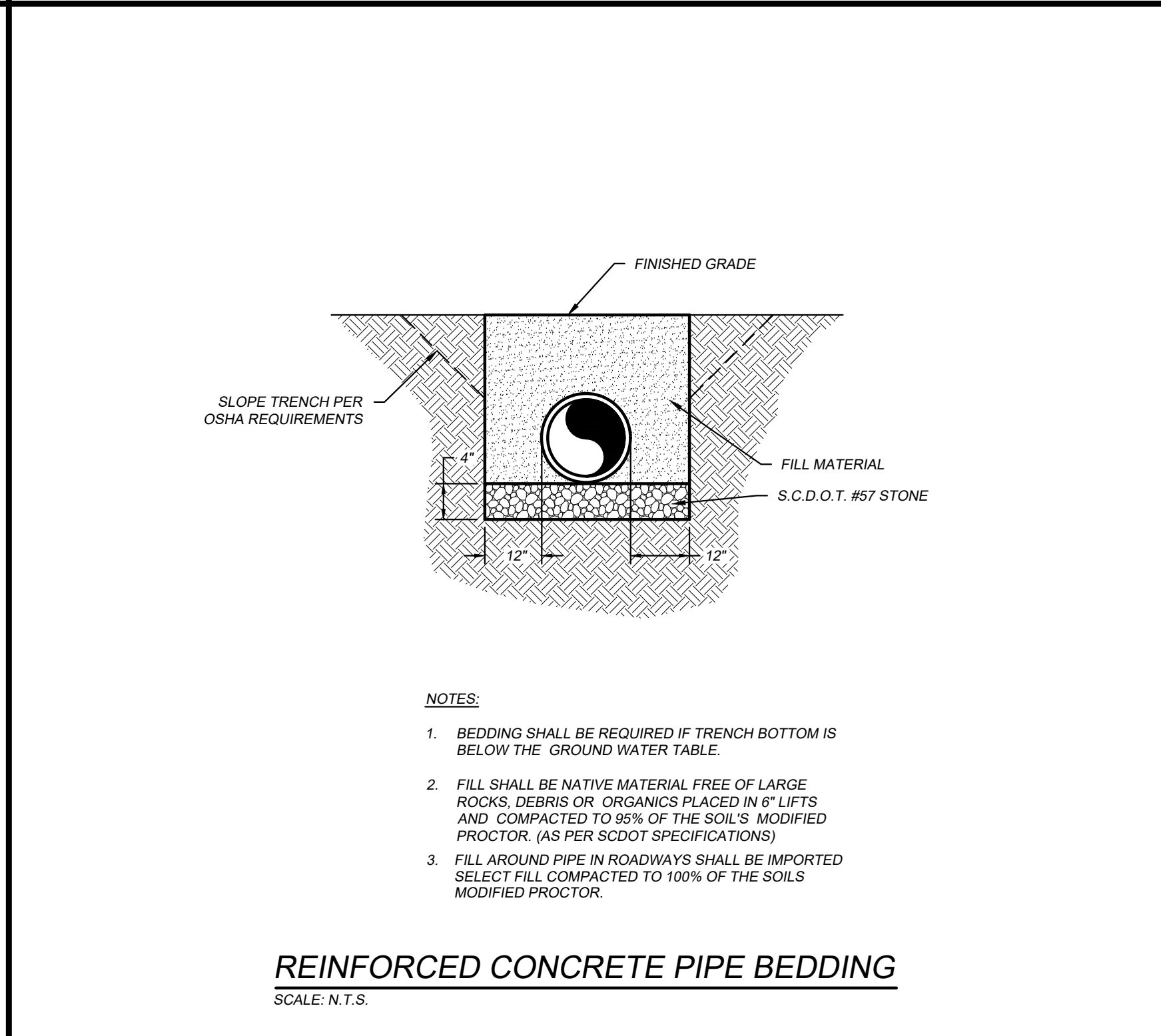
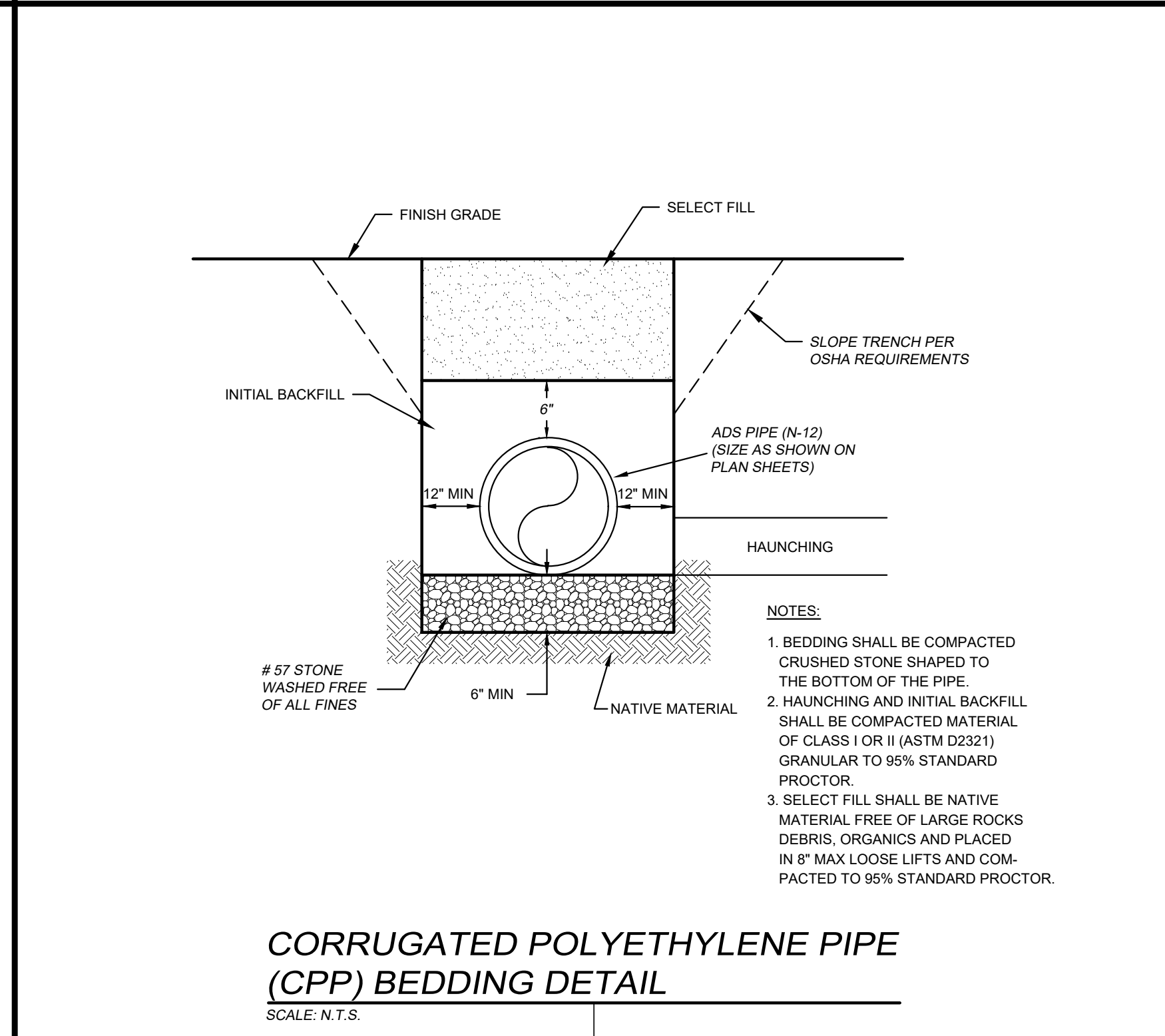
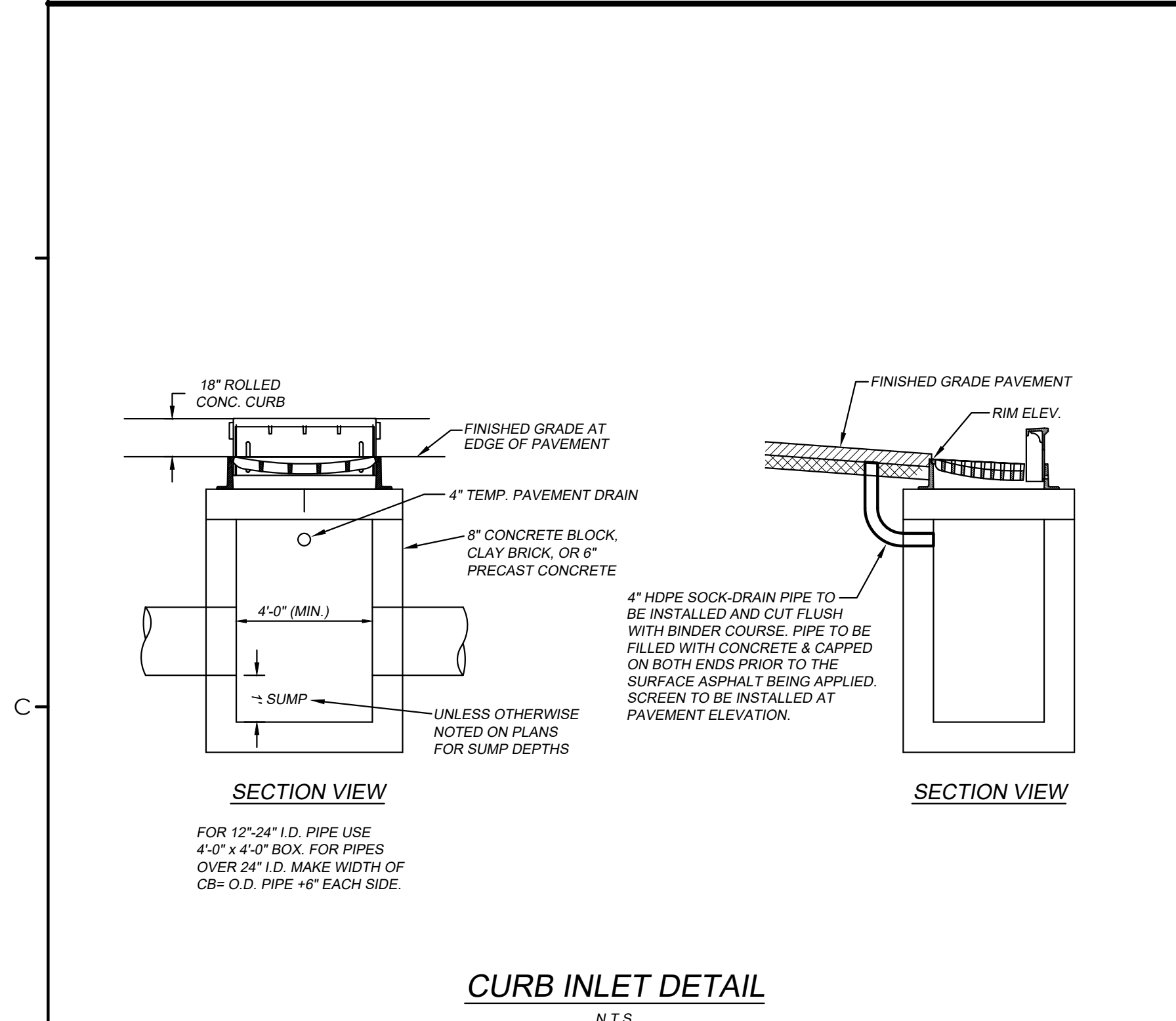
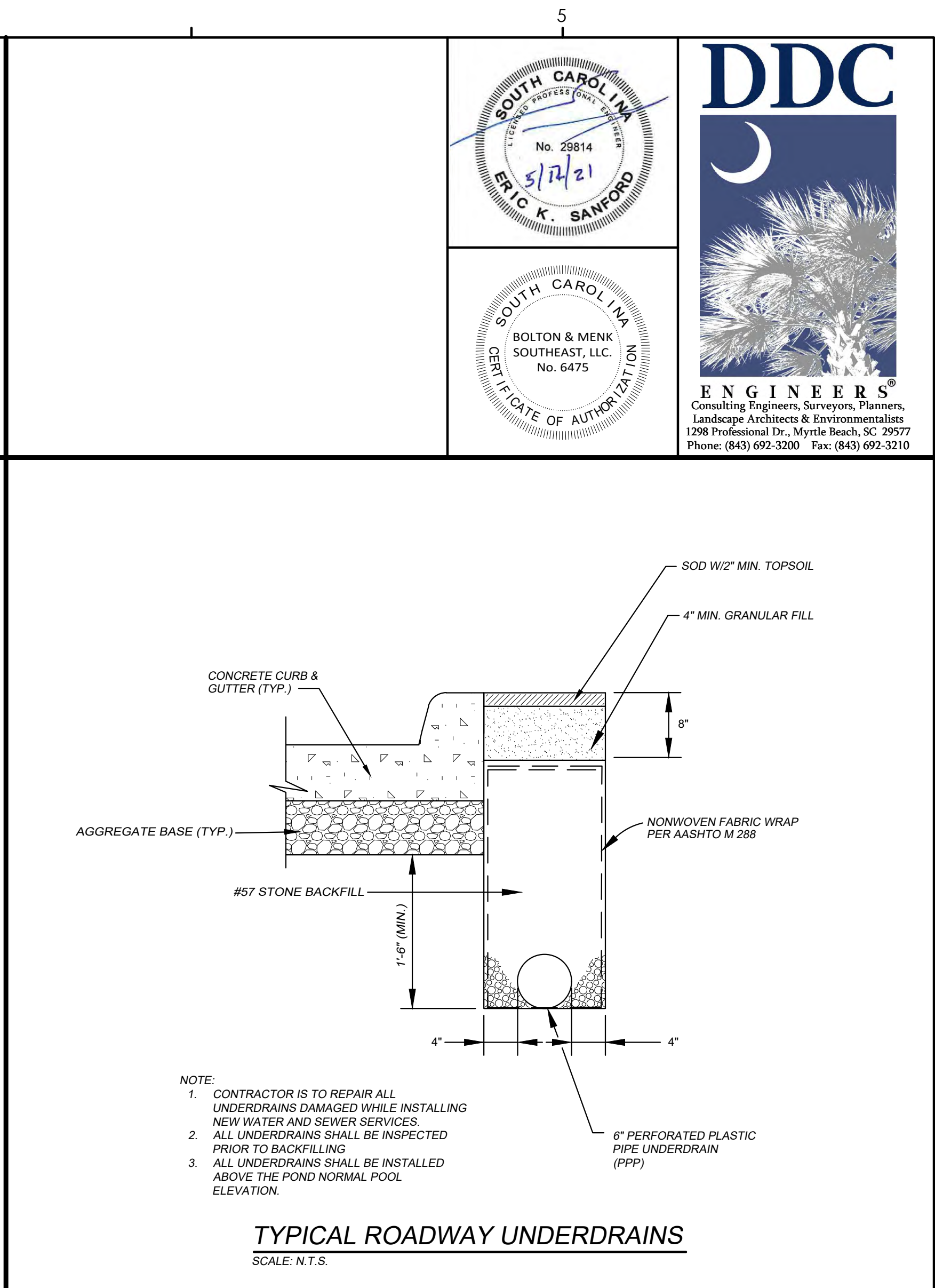
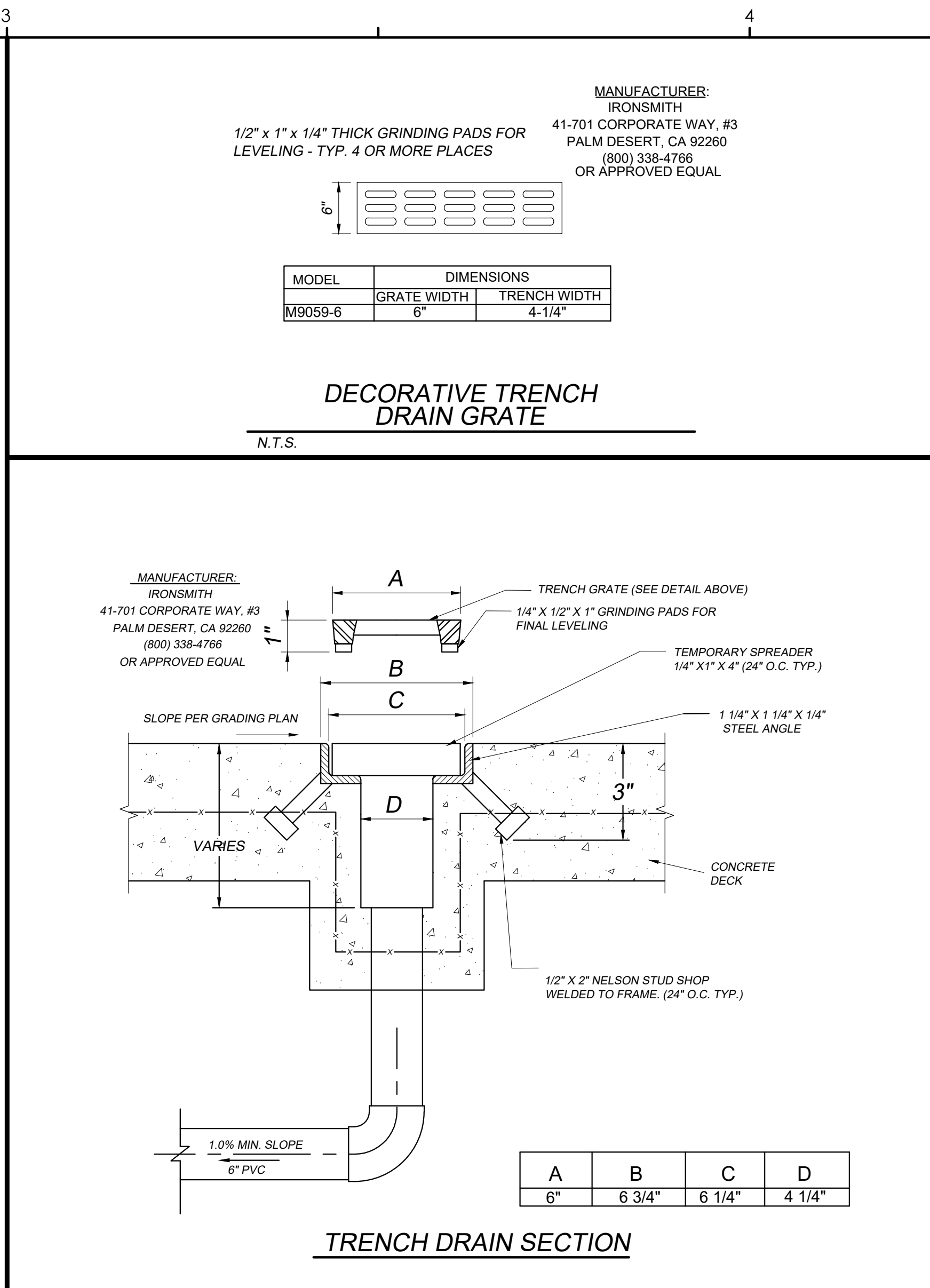
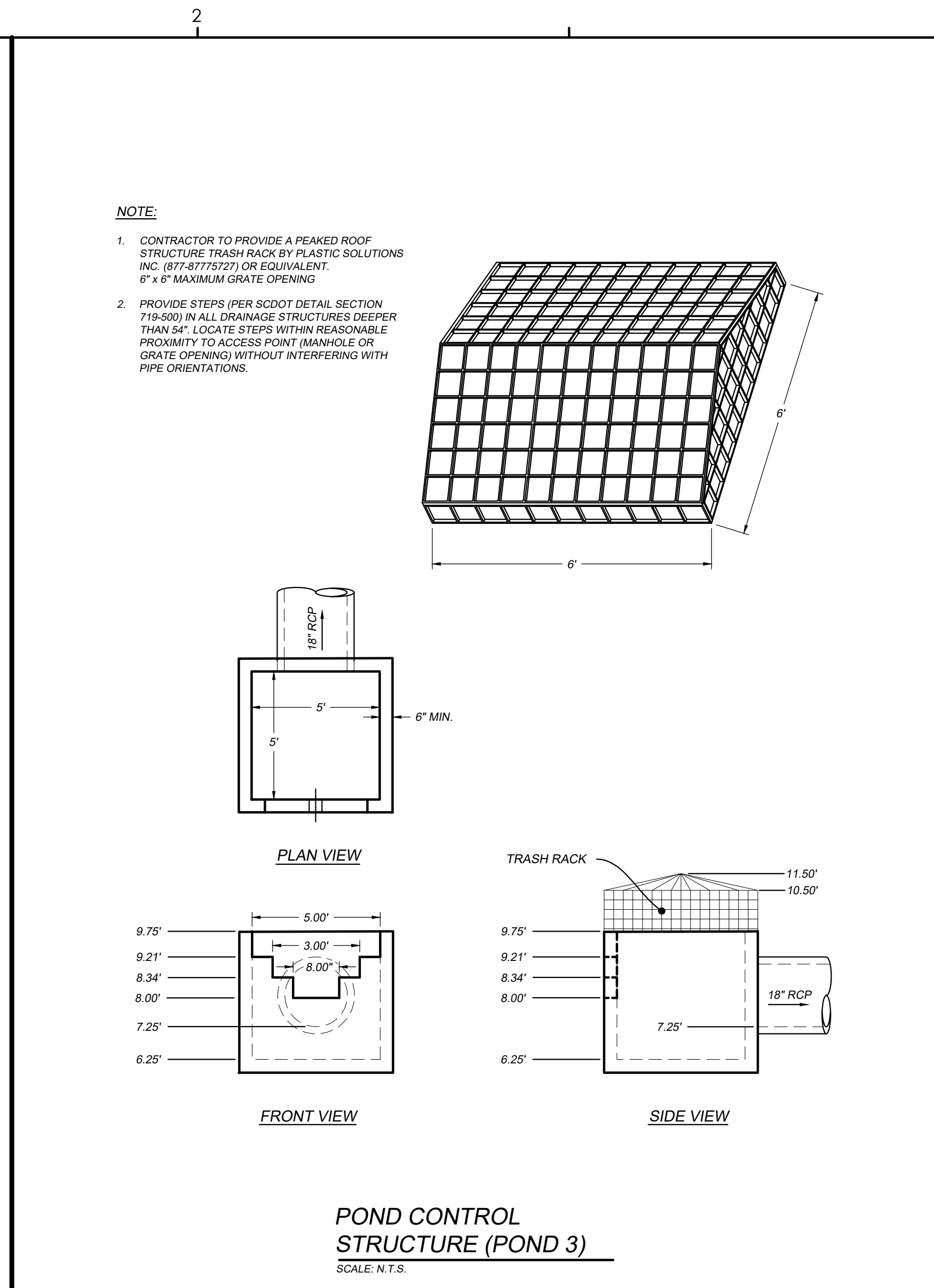
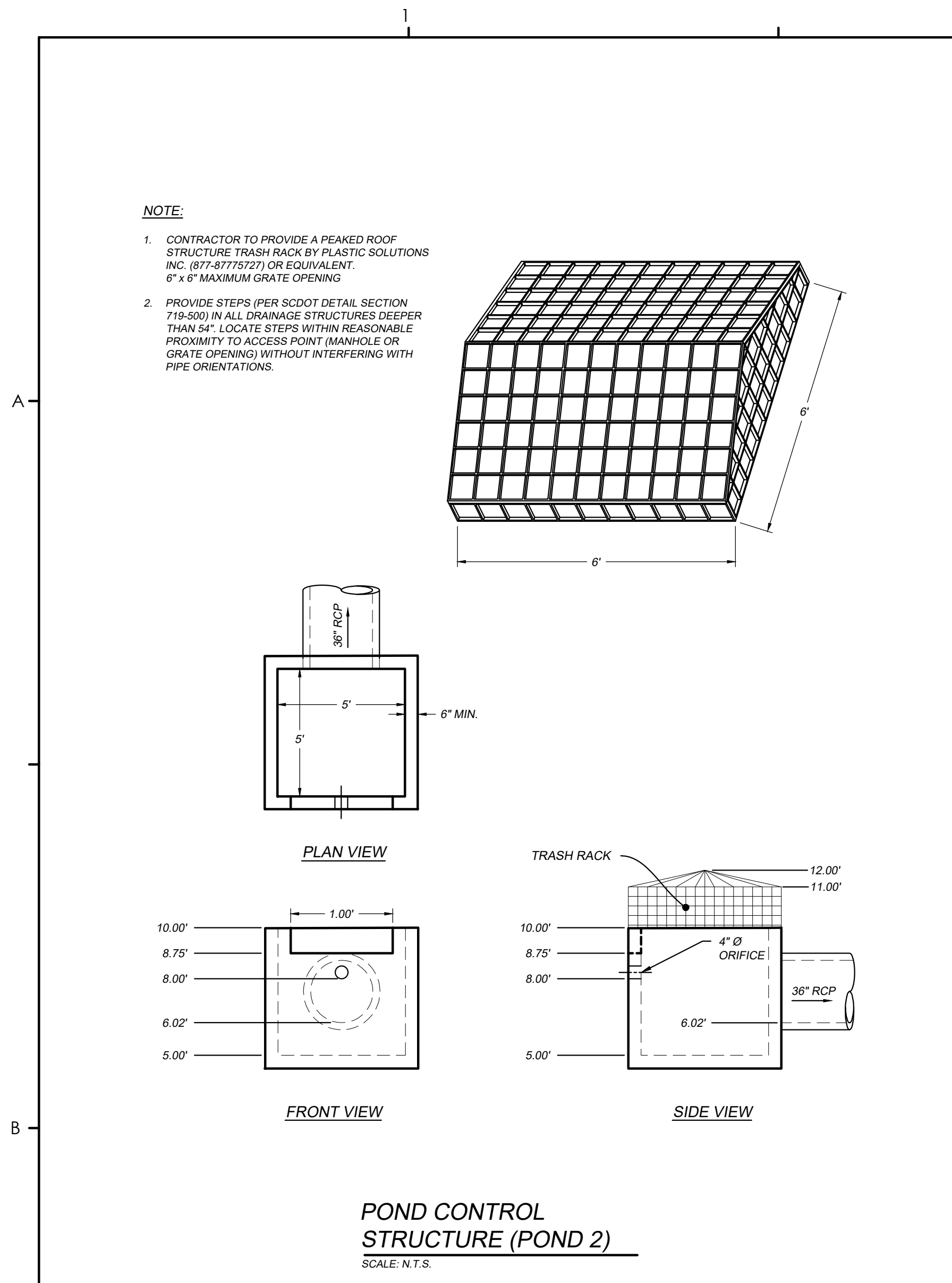
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Permit Drawings

Revision Schedule		
#	Description	Date
2	SCDHEC COMMENTS	2-04-21
4	GT. STORM COMMENTS	4-14-21
5	GT. STORM COMMENTS	5-05-21

SEDIMENT &  
EROSION CONTROL  
PLAN - PHASE 3

C-203



**SGA NarmourWright DESIGN**

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**DDC ENGINEERS**  
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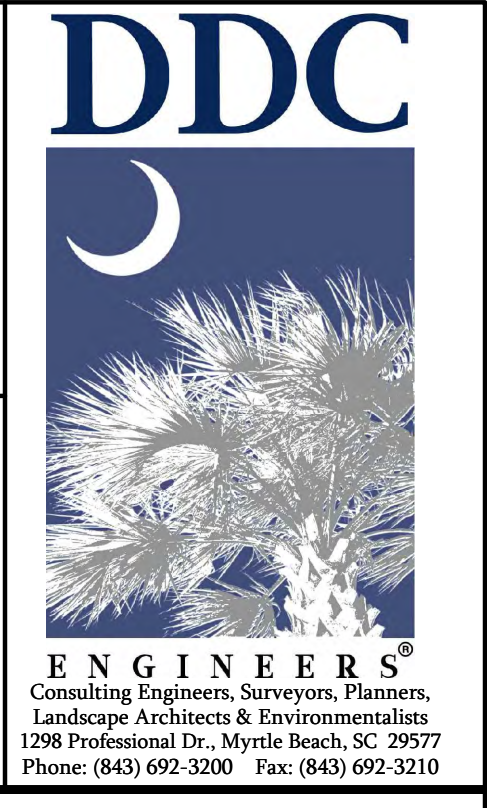
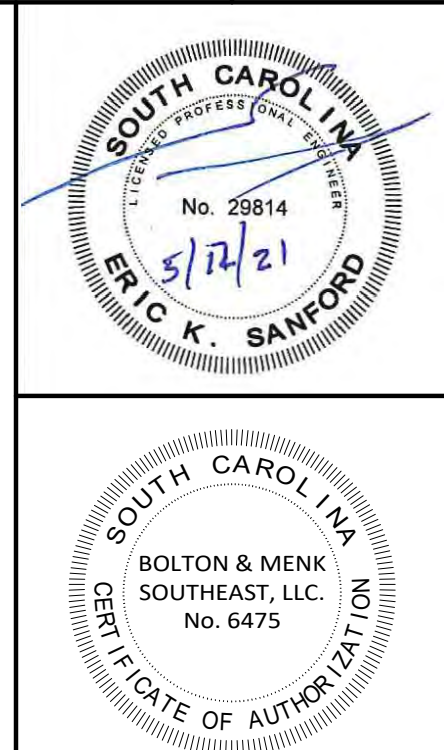
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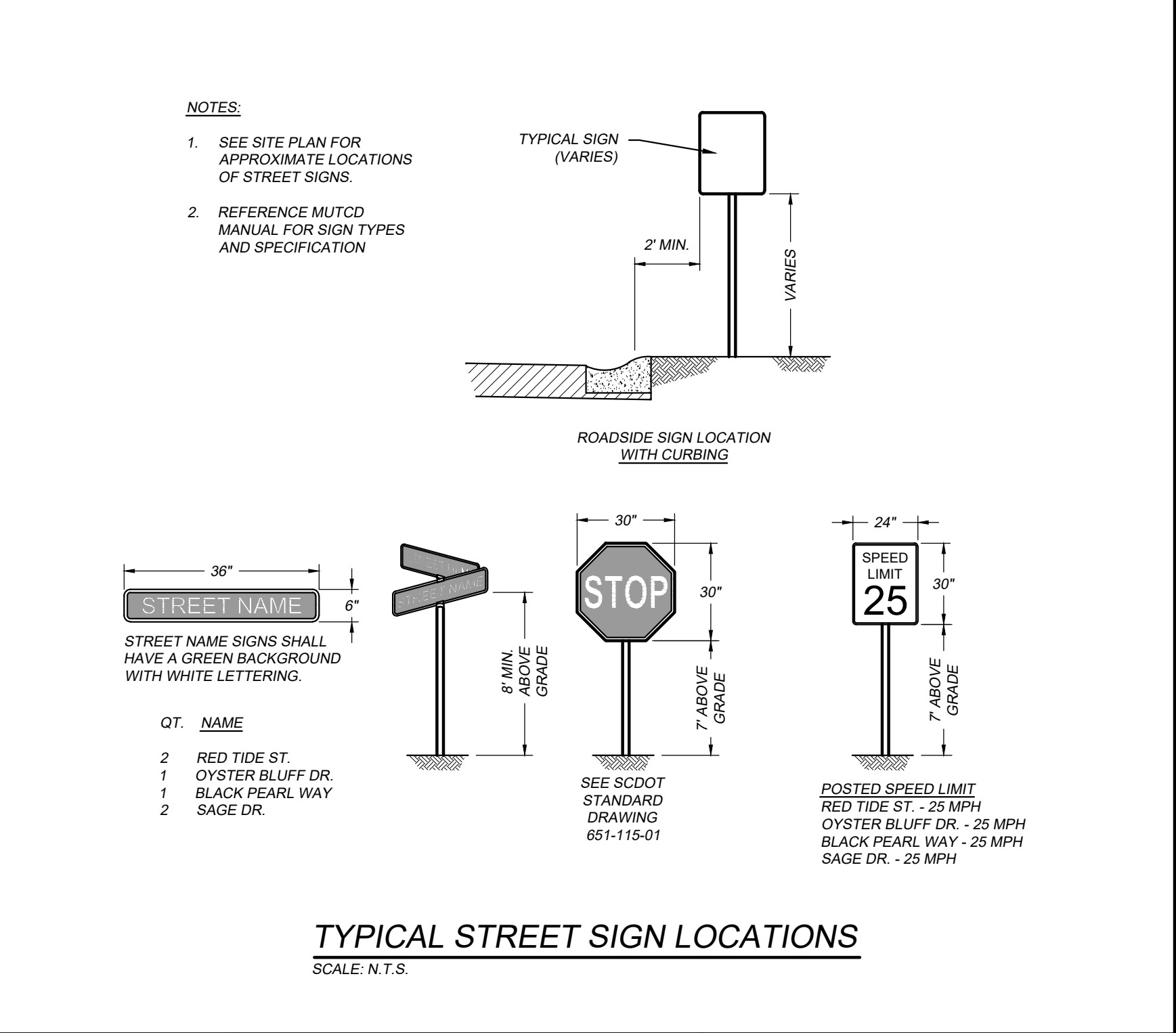
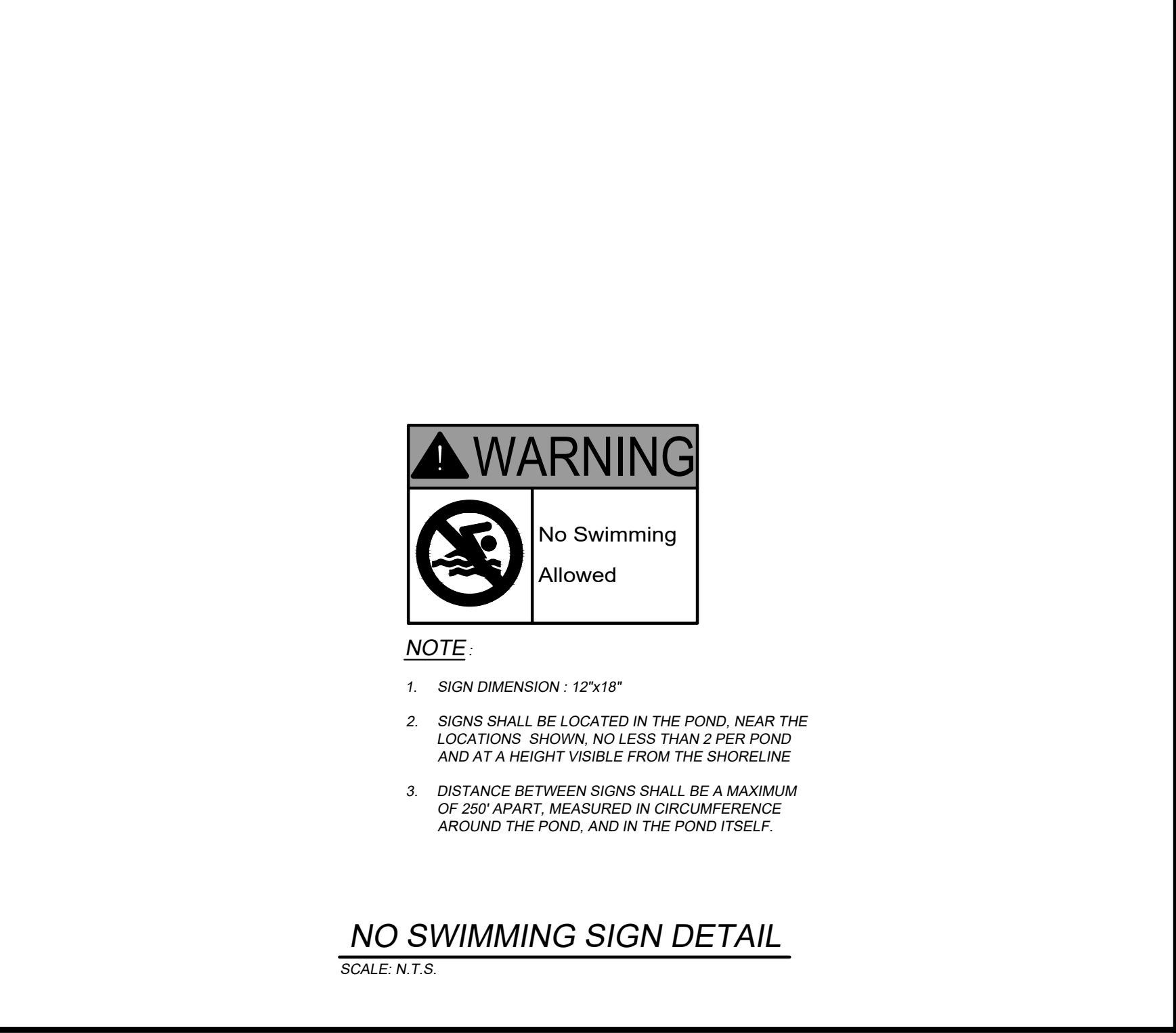
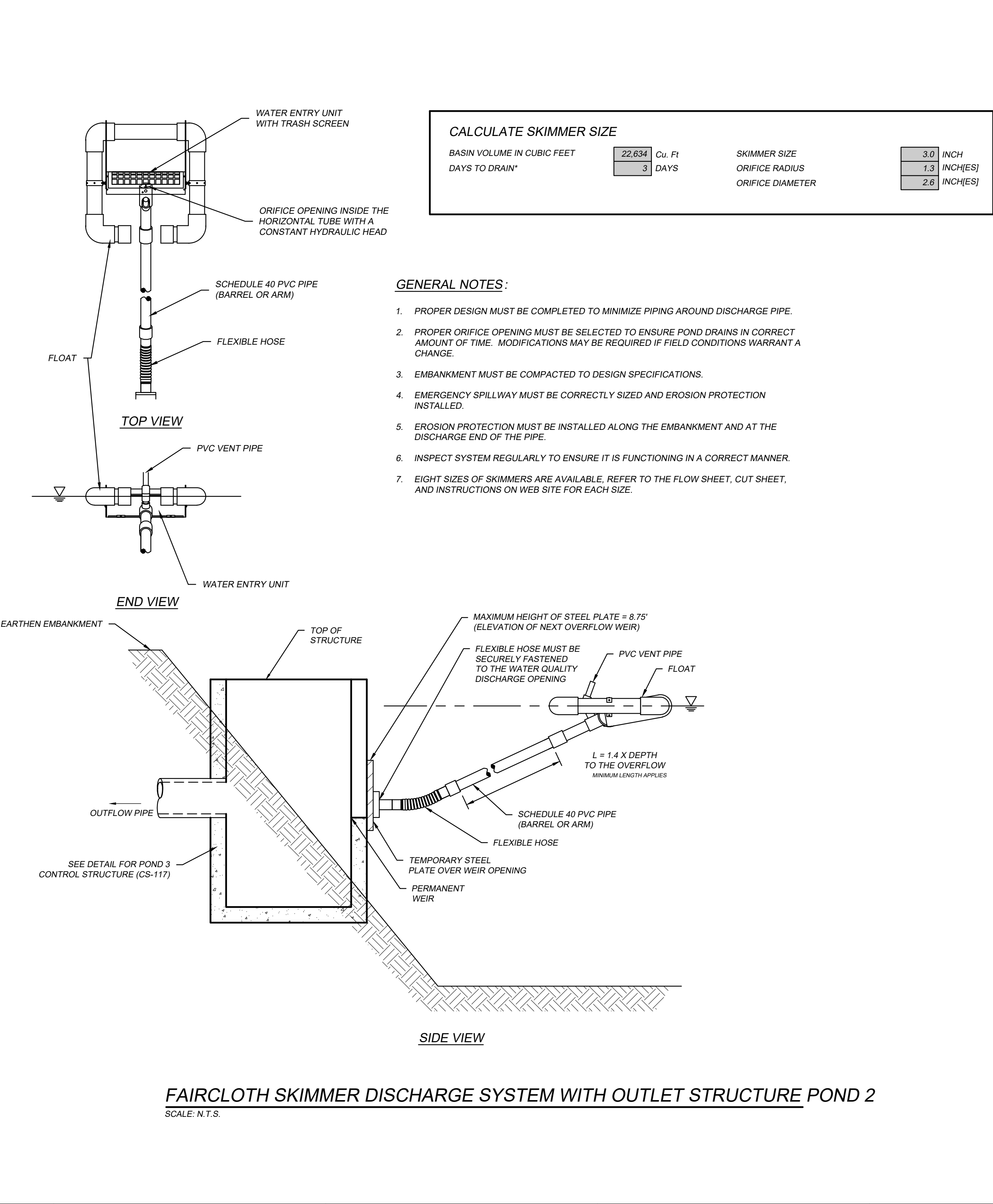
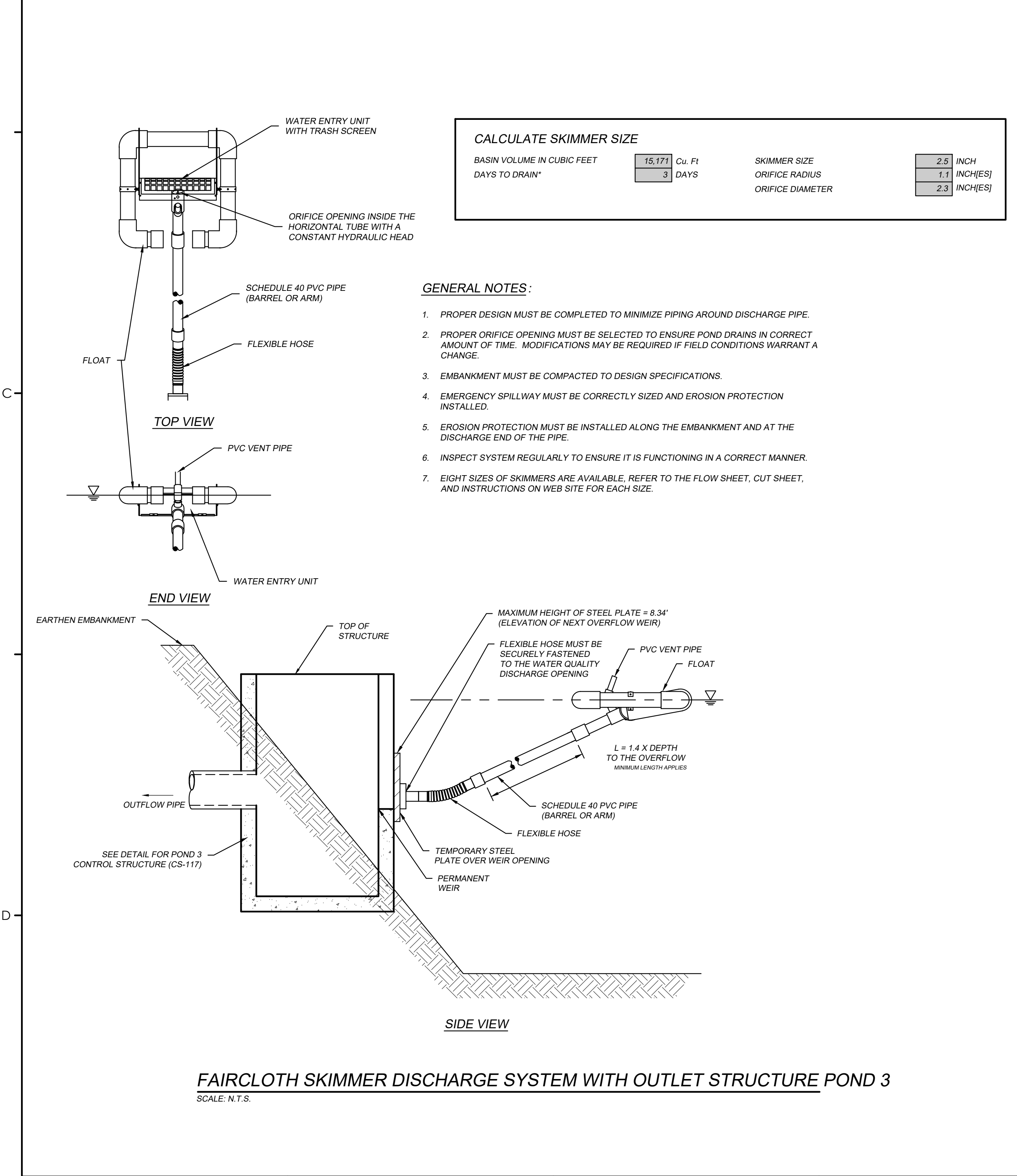
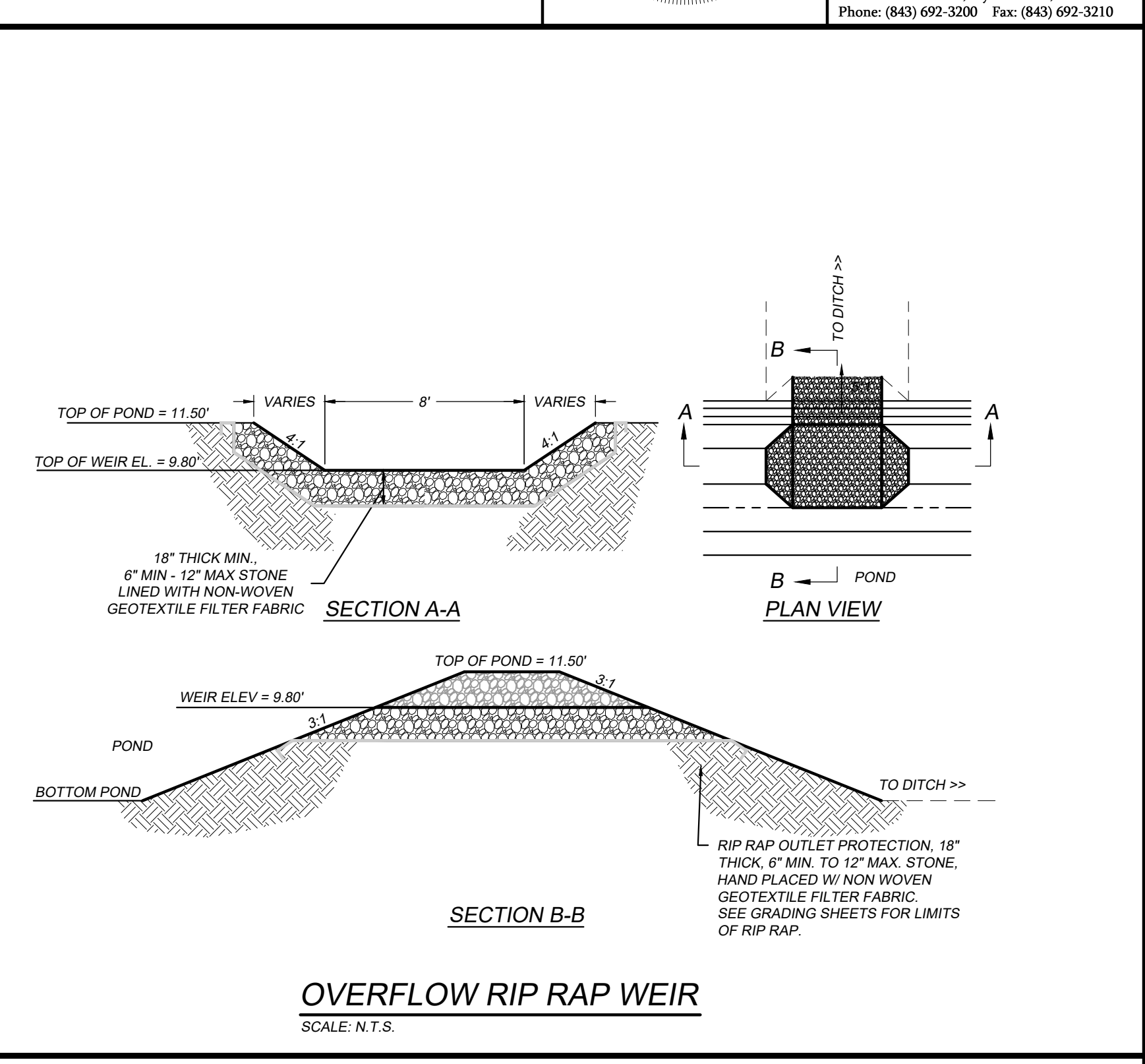
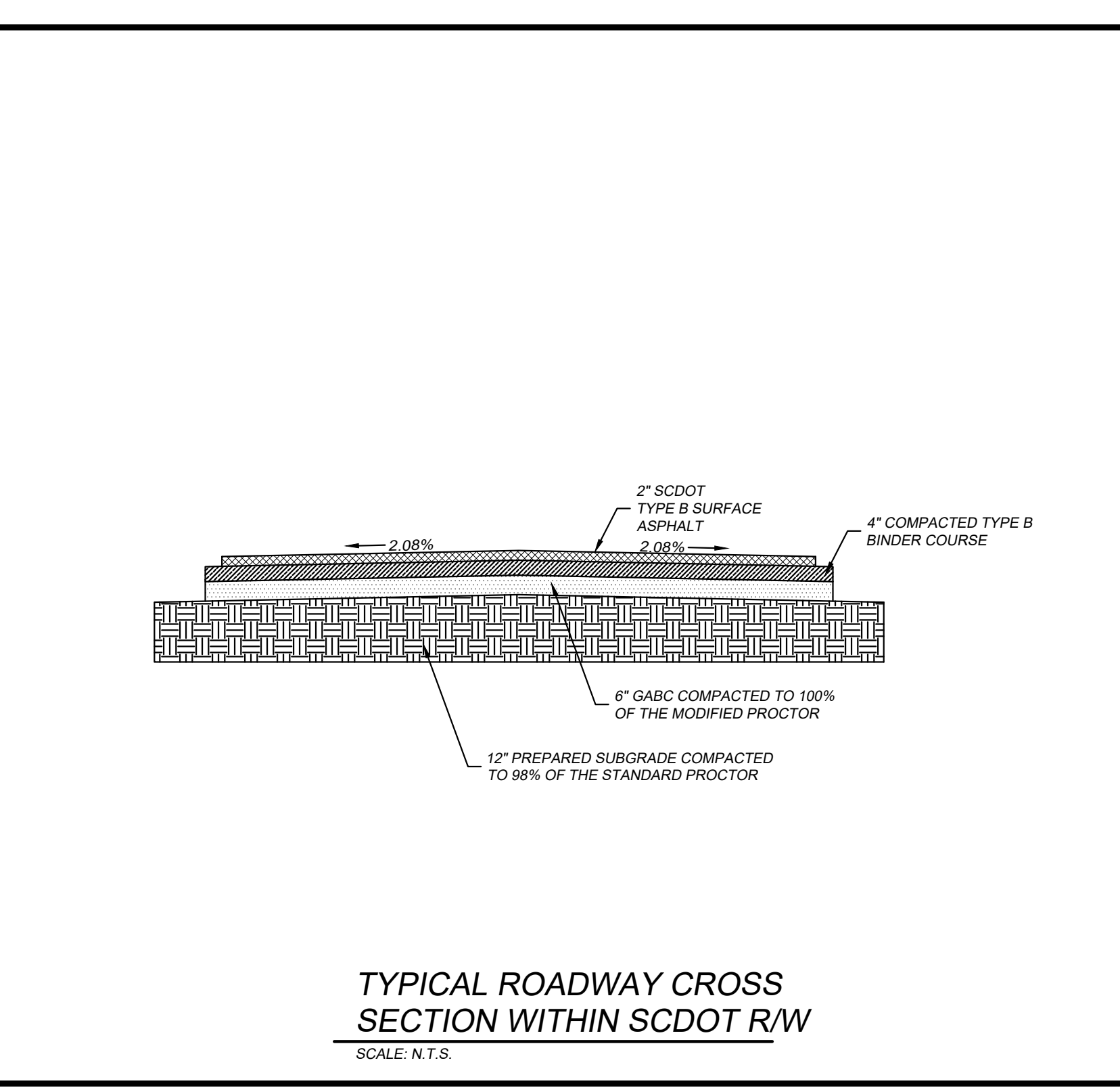
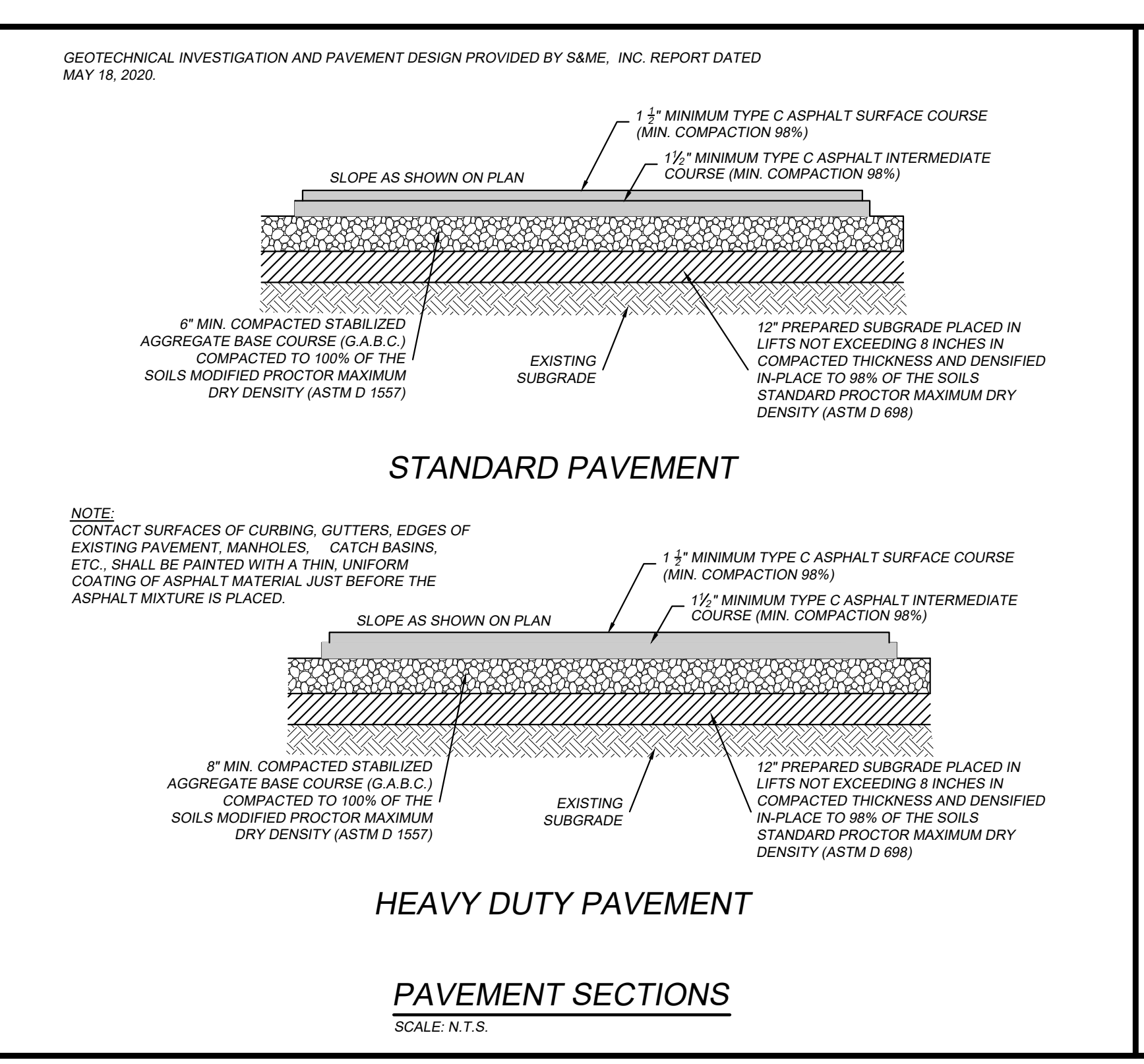
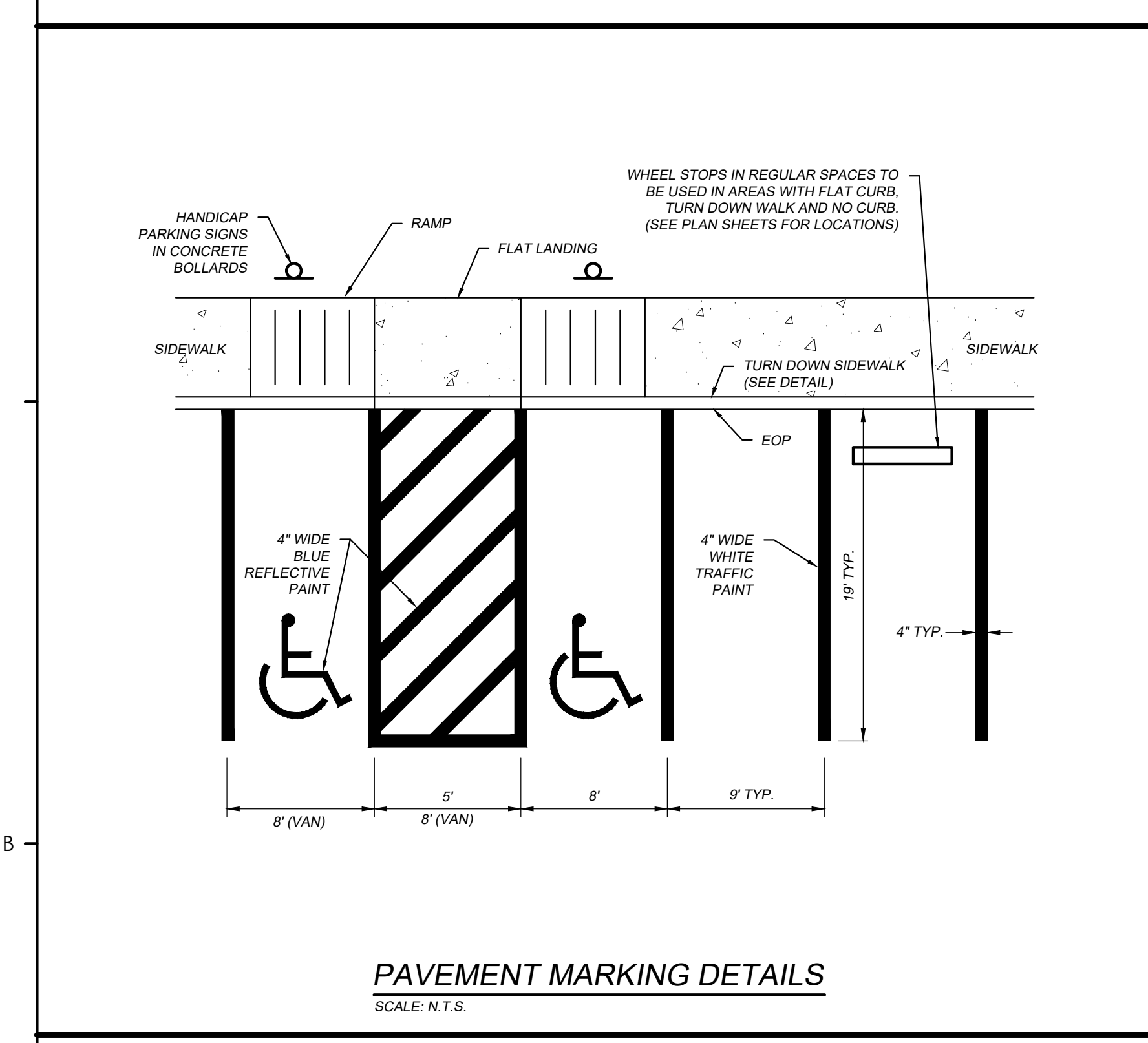
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**GRADING AND DRAINAGE DETAILS**

**C-305**



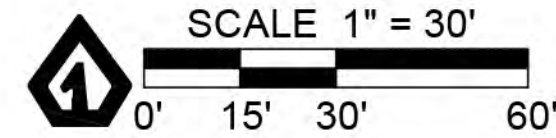
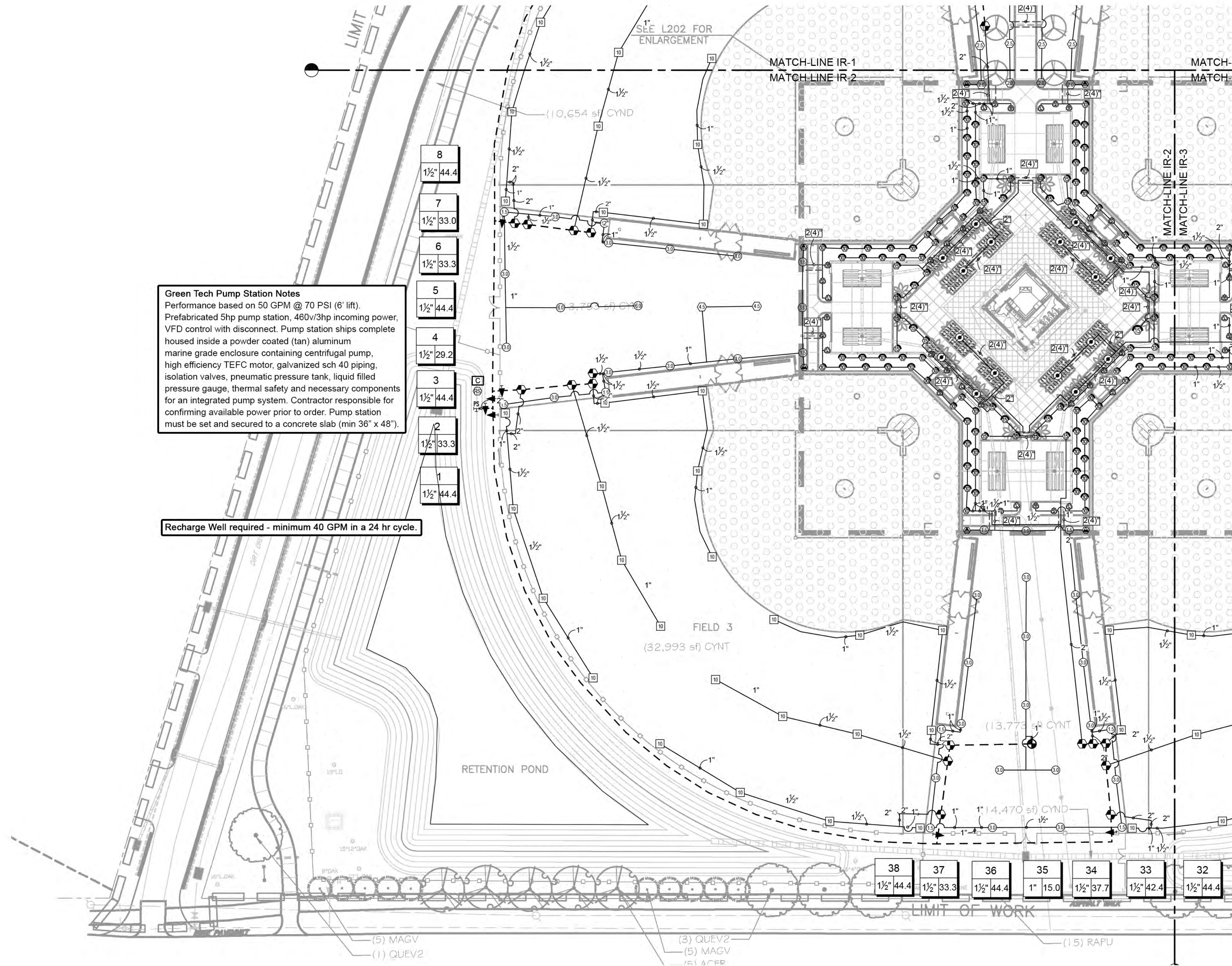
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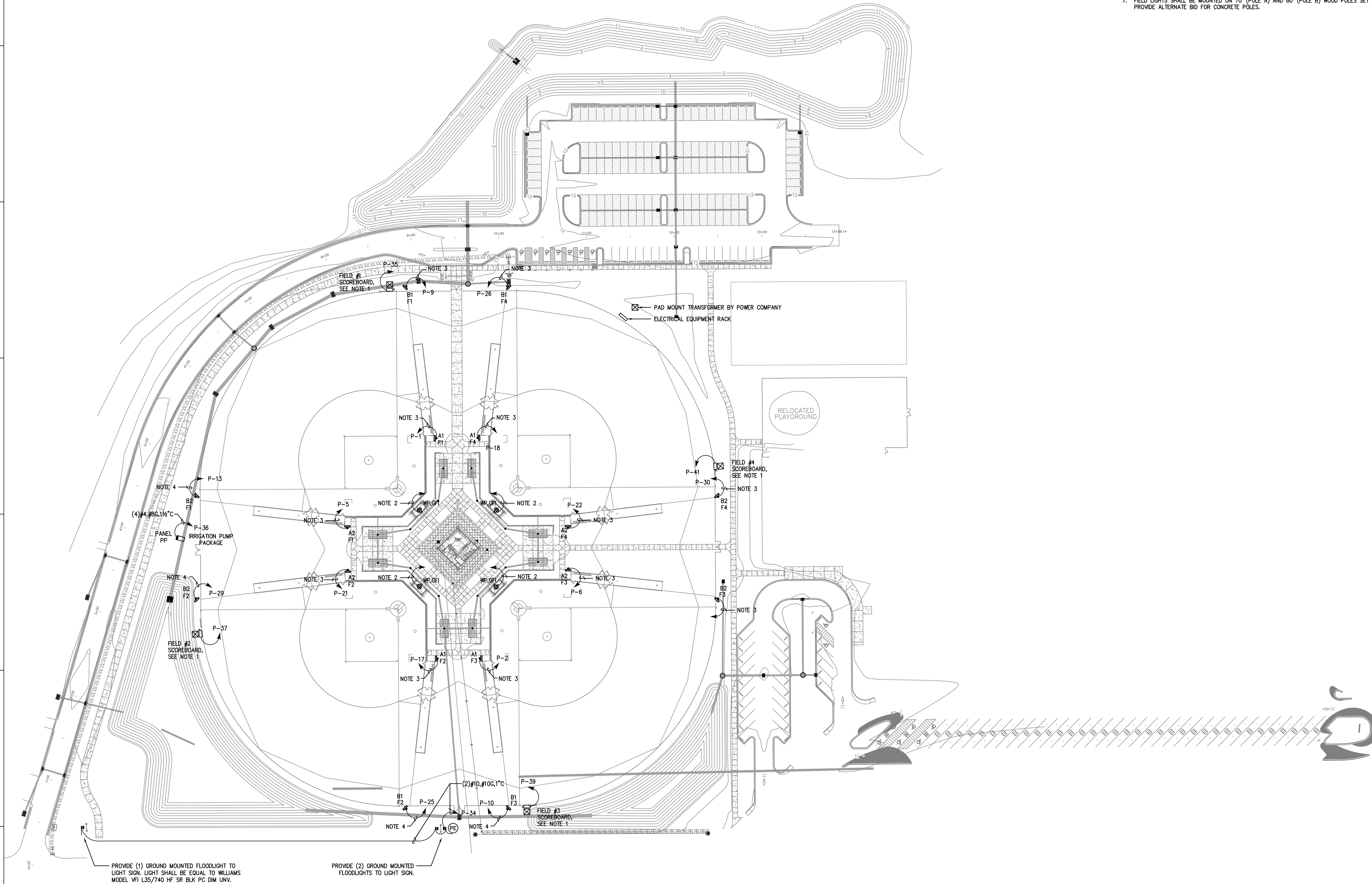
Revision Schedule		
#	Description	Date
1	SCDOT COMMENTS	1-20-21
2	SCDHEC COMMENTS	2-04-21
4	GT. STORM COMMENTS	4-14-21
5	GT. STORM COMMENTS	5-05-21



**ELECTRICAL NOTES**

1. PROVIDE 2 KVA, NEMA 4X, 277 - 120 VOLT TRANSFORMER MOUNTED ON BACK OF SCOREBOARD. PROVIDE NEMA 3R, SINGLE POLE, 30 AMP DISCONNECT SWITCH AHEAD OF TRANSFORMER AND HOMERUN (2) #10, #10 GROUND IN 1 1/2" CONDUIT TO PANEL P. CONNECT SCOREBOARD PER MANUFACTURER'S RECOMMENDATIONS. DATA TO SCOREBOARD IS WIRELESS.
2. PROVIDE GF1, WEATHERPROOF CONVENIENCE QUAD RECEPTACLE AT BACKSTOP FOR SCOREBOARD CONTROLLER. HOMERUN WITH (2) #10, #10 GROUND IN 1" CONDUIT TO SINGLE POLE 20 AMP CIRCUIT BREAKER IN 120/ 240 VOLT PANEL LOCATED IN CONCESSION BUILDING. EXACT LOCATION TO BE DETERMINED BY ARCHITECT.
3. HOMERUN WITH (2) #10, #10 GROUND IN 1 1/2" CONDUIT.
4. HOMERUN WITH (2) #8, #10 GROUND IN 1 1/2" CONDUIT.
5. PROVIDE SCOREBOARD. SCOREBOARD SHALL BE BY ELECTRO-MECH SCOREBOARD COMPANY MODEL LX1050 (5'X3') WITH BUILT-IN D PANEL & SL-400 WIRELESS CONTROL SYSTEM MOUNT SCOREBOARD PER MANUFACTURER'S RECOMMENDATIONS. SALES REP CONTACT IS JOHN BRAECKELAERE, (800)-445-7846
6. PROVIDE CONTROL WIRING FROM CONTROL PANEL TO 4 SWITCHES (ONE FOR EACH FIELD) TO BE LOCATED IN CONCESSION BUILDING. PROVIDE LABEL FOR EACH SWITCH.
7. FIELD LIGHTS SHALL BE MOUNTED ON 70' (POLE A) AND 80' (POLE B) WOOD POLES SET 10' IN GROUND. PROVIDE ALTERNATE BID FOR CONCRETE POLES.

A  
B  
C  
D



**WAVERLY PARK**

AT  
WACCAMAW ELEMENTARY SCHOOL  
1364 WAVERLY RD.  
PAWLEYS ISLAND, SC 29585

PROJECT NUMBER:  
2028  
ISSUE DATE:  
5/10/2021  
DRAWN BY: HARVEY  
CHECKED BY: DEDEN

Permit Drawings

Revision Schedule		
#	Description	Date



ELECTRICAL SITE  
PLAN

**ES100**

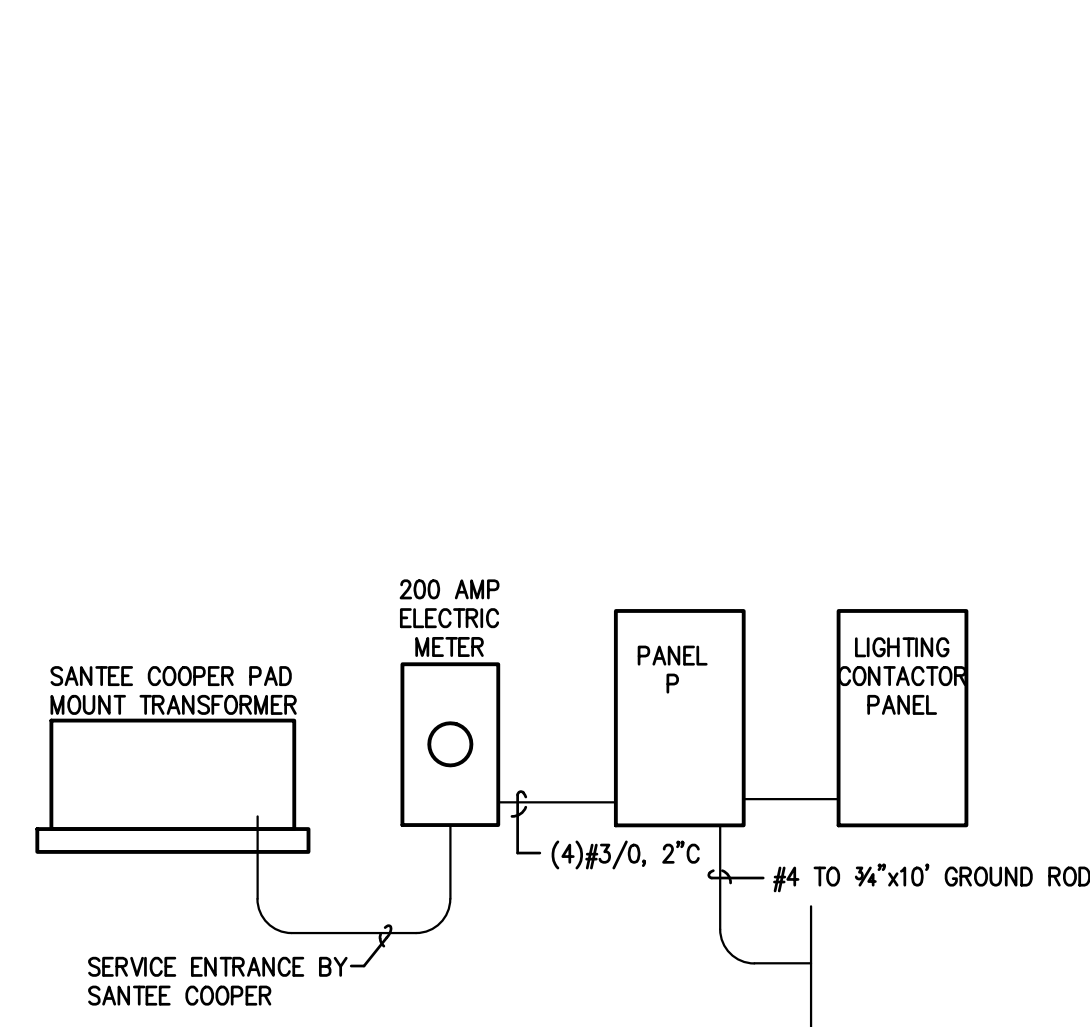
**ELECTRICAL SPECIFICATIONS**

**PART 1 - GENERAL**

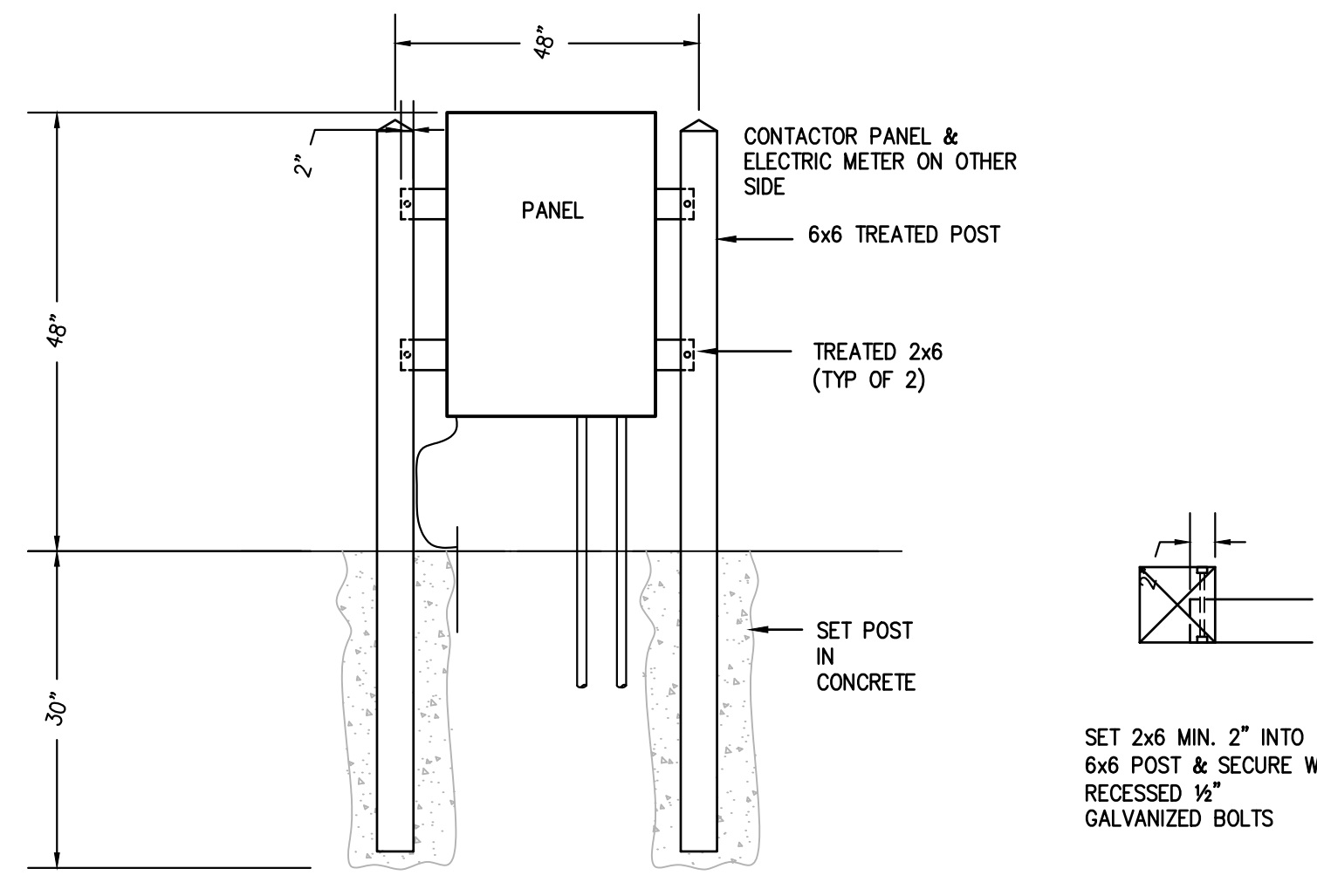
- 1.01 SCOPE:  
 A. FURNISH AND INSTALL A COMPLETELY WIRED AND OPERATIONAL ELECTRICAL SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN, INCLUDING BUT NOT LIMITED TO THESE MAJOR ITEMS:  
 1. LIGHTING FIXTURES AS INDICATED AND SPECIFIED ON PLANS.  
 2. ELECTRICAL PANELS, CONTROLS, SERVICE, DISCONNECTS, CONDUIT, WIRING, ETC., FOR ALL OUTLETS AND EQUIPMENT.
- 1.02 CODES, REGULATIONS AND STANDARDS:  
 A. THE INSTALLATION SHALL COMPLY WITH APPLICABLE LOCAL AND STATE CODES AND ORDINANCES, INCLUDING THE REGULATIONS OF THE FOLLOWING:  
 1. AMERICANS WITH DISABILITIES ACT - 1990 W/ 2008 AMENDMENT  
 2. INTERNATIONAL BUILDING CODE - 2018  
 3. NATIONAL ELECTRIC CODE - 2017  
 4. LOCAL BUILDING CODES AND ORDINANCES  
 B. THE FOLLOWING INDUSTRY STANDARDS, SPECIFICATIONS ARE ALSO MINIMUM REQUIREMENTS:  
 1. THE NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION STANDARDS (NEMA).  
 2. THE MANUFACTURER'S RECOMMENDATION.  
 3. UNDERWRITER LABORATORIES INCORPORATED STANDARDS (UL).  
 4. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).
- 1.03 PERMITS  
 A. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTION FEES.
- 1.04 INSPECTION OF SITE:  
 A. PRIOR TO SUBMITTING A BID, VISIT THE SITE OF THE PROPOSED CONSTRUCTION TO BECOME THOROUGHLY ACQUAINTED WITH EXISTING UTILITIES, WORKING CONDITIONS, ETC. ALLOWANCE WILL NOT BE MADE FOR NONCOMPLIANCE WITH THIS CONDITION AFTER BIDDING.
- 1.05 CLEAN-UP:  
 A. KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIAL OR RUBBISH CAUSED BY EMPLOYEES OR WORK UNDER THIS DIVISION OF THE SPECIFICATION. AT THE COMPLETION OF THE WORK, REMOVE ALL SURPLUS MATERIALS, TOOLS, ETC., AND LEAVE THE PREMISES "BROOM-CLEAN". REMOVE ALL TEMPORARY WIRING UPON PROJECT COMPLETION.
- 1.06 DRAWINGS:  
 A. THE DRAWINGS INDICATE THE GENERAL ARRANGEMENT AND LOCATIONS OF THE ELECTRICAL WORK. DATA PRESENTED ON THESE DRAWINGS ARE AS ACCURATE AS PLANNING CAN DETERMINE, BUT FIELD VERIFICATION OF ALL DIMENSIONS, LOCATIONS, LEVELS, ETC., TO SUIT FIELD CONDITIONS IS REQUIRED. REVIEW ALL ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND ADJUST ALL WORK TO MEET THE REQUIREMENTS OF CONDITIONS SHOWN. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS. DISCREPANCIES BETWEEN DIFFERENT PLANS, OR BETWEEN DRAWINGS AND SPECIFICATIONS, OR REGULATIONS AND CODES GOVERNING THE INSTALLATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING BEFORE THE DATE OF BID OPENING. IF DISCREPANCIES ARE NOT REPORTED, ID THE GREATER QUANTITY OR BETTER QUALITY, AND APPROPRIATE ADJUSTMENTS WILL BE MADE AFTER CONTRACT AWARD.
- 1.07 COORDINATION WITH OTHER TRADES:  
 A. COOPERATE WITH OTHER TRADES SO THAT INSTALLATION OF ELECTRICAL OUTLETS AND EQUIPMENT WILL BE PROPERLY COORDINATED. CHECK CONDUIT, FIXTURE, AND OTHER EQUIPMENT LOCATIONS WITH THE OTHER TRADES TO AVOID CONFLICT.
- 1.08 UTILITY COMPANIES  
 A. COORDINATE ALL INCOMING SERVICES WITH RESPECTIVE UTILITY COMPANIES. INCLUDE ALL CHARGES IN BID.

**PART 2 - PRODUCTS AND EXECUTION**

- 2.01 MATERIALS:  
 A. ALL MATERIAL SHALL BE NEW AND OF QUALITY AS SPECIFIED ON THE PLANS OR SPECIFICATIONS AND MUST CARRY THE UNDERWRITER'S LABORATORIES APPROVAL COVERING THE PURPOSE FOR WHICH THEY ARE USED, IN ADDITION TO MEETING ALL REQUIREMENTS OF THE CURRENT APPLICABLE CODES AND REGULATIONS.
- 2.02 CONDUIT:  
 A. USE SCHEDULE 80 PVC WHERE EXPOSED AND TO 24" BELOW GRADE. CONDUIT BELOW 24" MAY BE SCHEDULE 40 PVC.  
 B. ALL EMPTY CONDUIT SYSTEMS SHALL HAVE 200 LB. TEST PULL CORD TO FACILITATE INSTALLATION OF FUTURE WIRE.
- 2.03 CONDUCTORS:  
 A. UNLESS OTHERWISE SPECIFIED, ALL WIRE SHALL BE TYPE THW, THWN OR XHHW COPPER. THE WIRES SHALL BE COLOR CODED INDICATING PHASE & VOLTAGE. UNLESS OTHERWISE REQUIRED BY LOCAL ORDINANCES, GROUND WIRES SHALL BE GREEN, NEUTRAL WIRES SHALL BE WHITE. CONDUCTORS SHALL BE #12 AWG, UNLESS OTHERWISE INDICATED.  
 B. DO NOT INSTALL CONDUCTORS UNTIL CONDUIT SYSTEM IS COMPLETE. USE MINERALAC #100 OR EQUIVALENT AS A LUBRICANT TO FACILITATE THE INSTALLATION OF THE CONDUCTORS IN THE CONDUIT SYSTEM.  
 C. ALL BRANCH CIRCUITS SHALL CONTAIN A GROUND CONDUCTOR. ALL 3 PH BRANCH CIRCUITS SHALL CONSIST OF 3 PHASE CONDUCTORS AND GROUND CONDUCTOR. WHEN TWO OR THREE SINGLE PHASE CIRCUITS ARE SHOWN TO BE COMBINED, THESE CIRCUITS MAY SHARE A SINGLE NEUTRAL.
- 2.04 WIRING DEVICES:  
 A. 20A, 125 VOLT, IVORY COLOR. SPECIFICATION GRADE.
- 2.05 PANELBOARDS:  
 A. PROVIDE BRANCH CIRCUIT PANELBOARD(S) AS SHOWN ON DRAWINGS AND AS SPECIFIED HEREIN. PROVIDE TIN-PLATED ALUMINUM BUS BARS. MULTIPLE POLE BREAKERS SHALL HAVE HANDLE TIES SO ALL POLES ACT SIMULTANEOUSLY. MAIN BREAKER SHALL BE CENTER MOUNTED. EQUIPMENT RATINGS SHALL EXCEED AVAILABLE FAULT CURRENT (PANELS MAY BE SERIES FAULT RATED). PROVIDE TYPED CIRCUIT DIRECTORY UNDER PLASTIC COVER IN EACH PANEL DOOR. CIRCUIT BREAKERS SHALL BE SWITCH RATED BOLT-ON TYPE. BALANCE FINAL LOADS WITHIN 10% OF ALL THREE PHASES. MOUNT PANELS 6'-6" TO TOP.
- 2.06 LIGHTING FIXTURES:  
 A. PROVIDE LIGHTING FIXTURES. COORDINATE PROCUREMENT OF THESE FIXTURES WITH OWNER'S REPRESENTATIVE IN A TIMELY MANNER TO MEET JOB SCHEDULES. RECEIVE, UNCRATE, INSPECT, STORE AND PROTECT ALL MATERIAL. INSTALL AND LAMP FIXTURES AS NOTED ON DRAWINGS.  
 B. SUBMIT ALL LIGHTING FIXTURES TO OWNER FOR APPROVAL.
- 2.08 LABELING  
 A. PROVIDE NAMEPLATES TO IDENTIFY PANELBOARDS, DISCONNECT SWITCHES, STARTERS, AND OTHER MAJOR EQUIPMENT.
- 2.09 GUARANTEE  
 A. GUARANTEE ALL MATERIAL FURNISHED AND ALL WORKMANSHIP PERFORMED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK. ANY DEFECTS DEVELOPING WITHIN THIS PERIOD, TRACEABLE TO MATERIAL FURNISHED AS PART OF THIS SECTION OR WORKMANSHIP PERFORMED HEREUNDER, SHALL BE CORRECTED AT NO EXPENSE TO THE OWNER.
- 2.10 CONDITIONS PRECEDENT TO FINAL ACCEPTANCE:  
 A. UPON COMPLETION OF PROJECT, PREPARE AND SUBMIT ONE COMPLETE SET OF ELECTRICAL RECORD DRAWING OF "AS-BUILT" CONDITIONS SHOWING ALL WIRING AS ACTUALLY INSTALLED. PRINTS SHALL ALSO SHOW, AS INDICATED BY MARKED-UP NOTATIONS, ALL DEVIATIONS AND CHANGES OF WIRING AND CIRCUIT NUMBER FROM THE ORIGINAL CONTRACT DRAWINGS.



**ELECTRICAL RISER DIAGRAM**  
NO SCALE



**TYPICAL STRUCTURE FOR PANELS & CONTACTORS**  
NO SCALE

**6x6 POST DETAIL**  
NO SCALE

**PANEL SCHEDULE P**

277480 VOLT, 3 PHASE, 4 WIRE, 22,000 AIC, 200 A MAIN CIRCUIT BREAKER

NEMA 4

CKT	DESCRIPTION	VA	TRIP	KVA			TRIP	VA	DESCRIPTION	CKT	
				A	B	C					
1	FIELD #1 POLE A1	1950	20/2	3.90			20/2	1950	FIELD #3 POLE A1	2	
3	--	1950	--		3.90		--	1950	--	4	
5	FIELD #1 POLE A2	1950	20/2			3.90	20/2	1950	FIELD #3 POLE A2	6	
7	--	1950	--	3.90			--	1950	--	8	
9	FIELD #1 POLE B1	3850	30/2		7.70		30/2	3850	FIELD #3 POLE B1	10	
11	--	3850	--			7.70	--	3850	--	12	
13	FIELD #1 POLE B2	3850	30/2	7.70			30/2	3850	FIELD #3 POLE B2	14	
15	--	3850	--		7.70		--	3850	--	16	
17	FIELD #2 POLE A1	1950	20/2			3.90	20/2	1950	FIELD #4 POLE A1	18	
19	--	1950	--	3.90			--	1950	--	20	
21	FIELD #2 POLE A2	1950	20/2		3.90		20/2	1950	FIELD #4 POLE A2	22	
23	--	1950	--			3.90	--	1950	--	24	
25	FIELD #2 POLE B1	3850	30/2	7.70			30/2	3850	FIELD #4 POLE B1	26	
27	--	3850	--		7.70		--	3850	--	28	
29	FIELD #2 POLE B2	3850	30/2		7.70		30/2	3850	FIELD #4 POLE B2	30	
31	--	3850	--	7.70			--	3850	--	32	
33	CONTROL POWER	100	15/1		0.20		20/1	100	SIGN FLOOD LIGHT	34	
35	FIELD #1 SCORE BOARD	100	15/1			1.77		50/3	1666	PANEL PP	36
37	FIELD #2 SCORE BOARD	100	15/1		1.77			1666	--	38	
39	FIELD #3 SCORE BOARD	100	15/1			1.77		1666	--	40	
41	FIELD #4 SCORE BOARD	100	15/1			0.10			SPACE	42	
TOTAL CONNECTED KVA										98	
TOTAL CONNECTED AMPS										118	

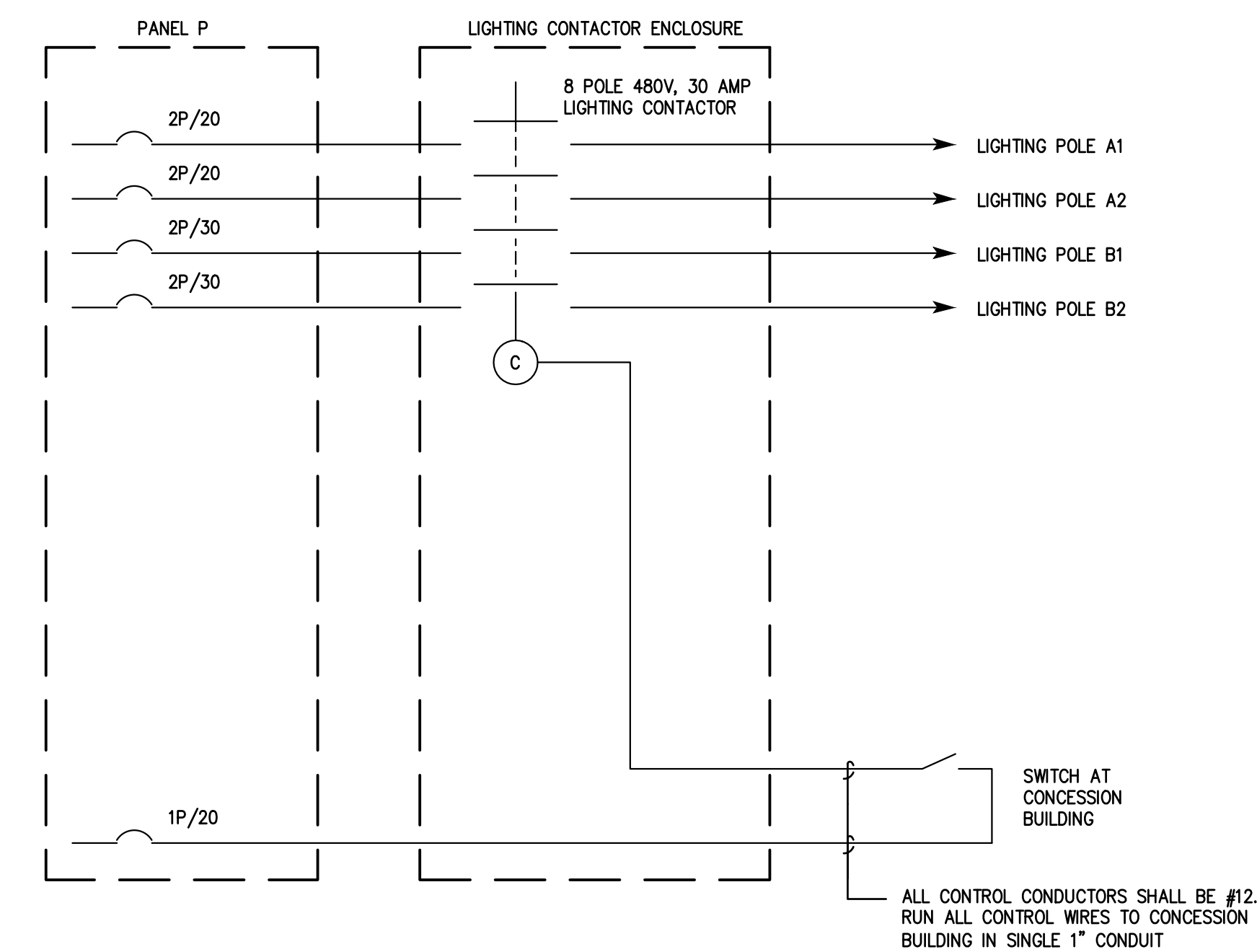
**PANEL SCHEDULE PP**

277480 VOLT, 3 PHASE, 4 WIRE, 22,000 AIC, 60 A MAIN LUGS ONLY

NEMA 4

CKT	DESCRIPTION	VA	TRIP	KVA			TRIP	VA	DESCRIPTION	CKT
				A	B	C				
1	IRRIGATION PUMP	1950	15/3		3.90		15/3	1950	WELL PUMP	2
3	--	1950	--		3.90		--	1950	--	4
5	--	1950	--			3.90	--	1950	--	6
7	SPACE								SPACE	8
9	SPACE								SPACE	10
11	SPACE								SPACE	12
TOTAL CONNECTED KVA										12
TOTAL CONNECTED AMPS										14

VERIFY CIRCUIT BREAKERS WITH IRRIGATION PUMP SUPPLIER.



**LIGHTING CONTROL DIAGRAM (TYP EACH FIELD)**  
NO SCALE

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ELECTRICAL  
SPECS. &  
SCHEDS.

