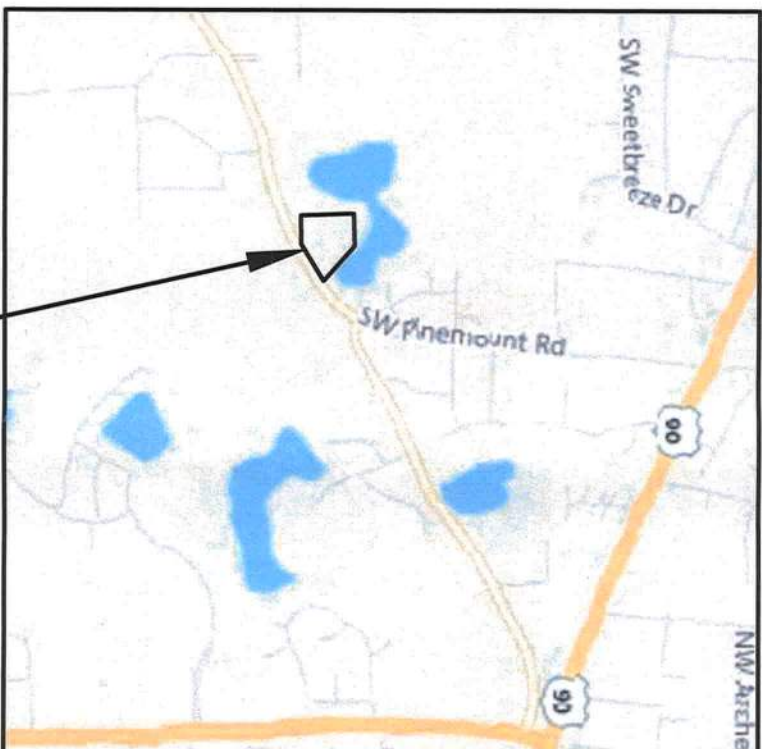


COLUMBIA
COUNTY

JEWEL LAKE ALF

LAKE CITY, FL

SECTION 04, TOWNSHIP 4S, RANGE 16E



PROJECT LOCATION

PLANS PREPARED FOR:

GARY SORENSEN
1400 WEST 22ND ST.
KEARNEY, NE 68845
(308) 237-1475

SHEET INDEX

COVER SHEET	C-1
GENERAL NOTES	C-2
OVERALL SITE PLAN	C-3
SITE PLAN	C-4
GRADING PLAN	C-5
UTILITY PLANS	C-6 - C-7
STORMWATER PLAN	C-8
SWMF PLAN	C-9
LANDSCAPE PLAN	C-10
EROSION CONTROL NOTES & DETAILS	C-11
EROSION CONTROL PLAN	C-12
MISC. DETAILS	C-13 - C-16

ATTACHMENT: SURVEY BY J. SHERMAN
FRIER & ASSOCIATES, INC.



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND
SEALED BY:

Gregory G Bailey
Digitally signed by Gregory G Bailey
DN: cn=Gregory G Bailey,
ou=401427E00001780E38840E0004253,
o=NORTH FLORIDA PROFESSIONAL
SERVICES INC., c=US
Date: 2020.12.16 17:01:52-0500

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT
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SIGNATURE MUST BE VERIFIED IN THE
ELECTRONIC DOCUMENTS.

NORTH FLORIDA PROFESSIONAL SERVICES, INC.
P.O. BOX 3823
LAKE CITY, FL 32056
CERTIFICATE OF AUTHORIZATION: 29011
GREGORY G. BAILEY, P.E. NO. 43858

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE
FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

12/2020
COUNTY SITE PLAN MODIFICATION

COVER SHEET

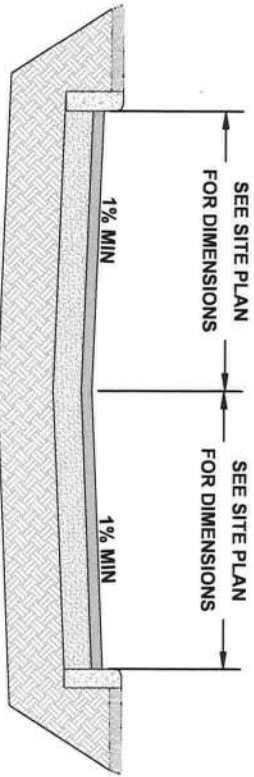


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Lake City, FL 32025
P.O. BOX 180998
Tallahassee, FL 32318

JOB NUMBER: L190107SMI	DESIGNED BY: TH	DRAFTED BY: JC	CHECKED BY: GB
DATE: 07/18	ENGINEER OF RECORD: GREG BAILEY		

GENERAL NOTES

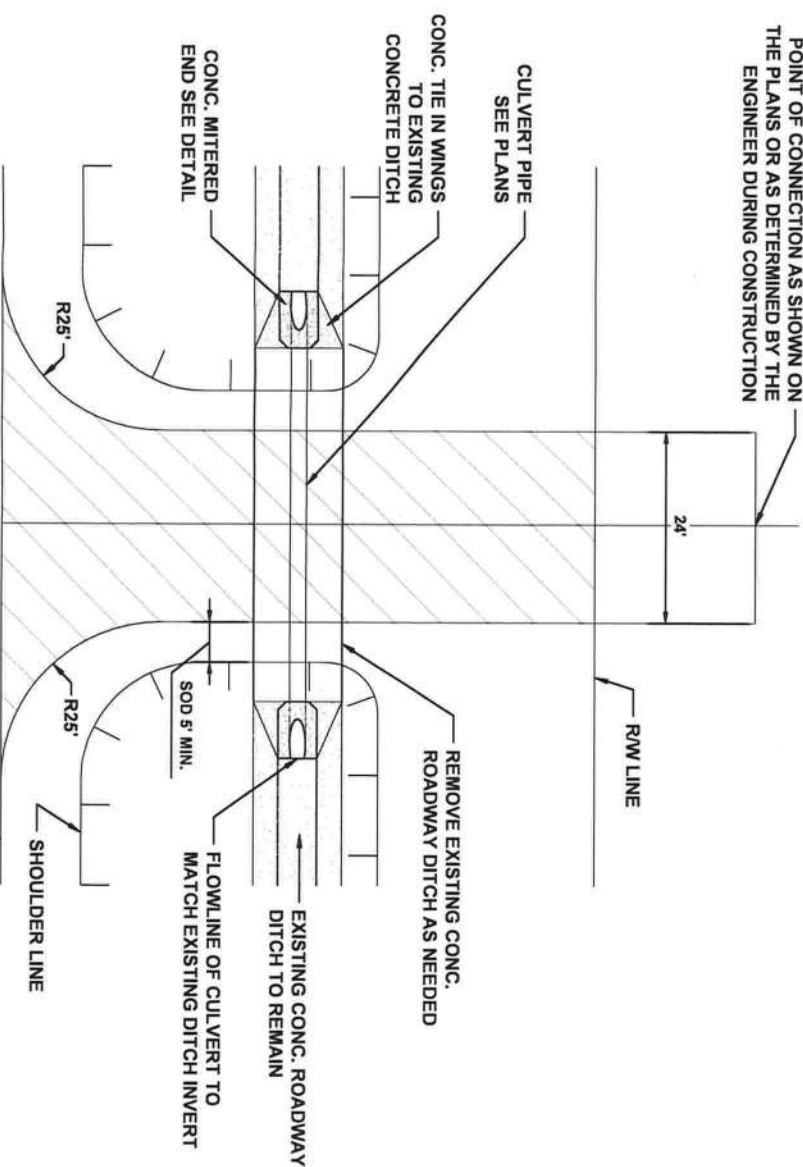
1. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE JOB SITE TO ENSURE THAT ALL NEW WORK WILL FIT IN THE MANNER INTENDED ON THE PLANS. SHOULD ANY CONDITIONS EXIST THAT ARE CONTRARY TO THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND COLUMBIA COUNTY, FLORIDA OF SUCH DIFFERENCES IMMEDIATELY AND PRIOR TO PROCEEDING WITH THE WORK.
2. THE CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS AS SET FORTH BY THE ISSUED FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION 102 SELF-CERTIFICATION TO USE A GENERAL PERMIT FOR A STORMWATER MANAGEMENT SYSTEM SERVING LESS THAN TEN ACRES TOTAL PROJECT AREA AND LESS THAN 2 ACRES IMPERVIOUS SURFACE.
3. THE CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION SITE IN A SECURE MANNER, ALL OPEN TRENCHES AND EXCAVATED AREAS SHALL BE PROTECTED FROM ACCESS BY THE GENERAL PUBLIC.
4. BOUNDARY INFORMATION SHOWN, WAS OBTAINED FROM A BOUNDARY SURVEY PREPARED BY J. SHERMAN FRIER & ASSOCIATES, FLORIDA CERTIFICATE NO. 6332.
5. THE BENCHMARKS NOTED IN THE PLANS WERE DETERMINED FROM THE USGS QUADRANGLE MAP.
6. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHOULD NOTIFY THE ENGINEER.
7. THE SITE IS LOCATED IN SECTION 4, TOWNSHIP 4 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA.
8. THE CONTRACTOR SHALL IMPLEMENT ALL COMPONENTS OF THE EROSION AND SEDIMENTATION CONTROL PLAN PRIOR TO ANY EARTH DISTURBING ACTIVITIES. ALL COMPONENTS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL ALL VEGETATION IS ESTABLISHED. THE ENTIRE PROJECT AREA IS STABILIZED AND THE OWNER HAS ACCEPTED OPERATION AND MAINTENANCE.
9. THE STORMWATER BASIN IS DESIGNED IN ACCORDANCE WITH SRWMD APPLICANT HANDBOOK VOLUME II AND 62-330 F.A.C.
10. ALL SLOPES OF THE STORMWATER BASIN SHALL BE GRASSSED. ALL SLOPES STEEPER THAN 3:1 SHALL BE STAPLED SOD.
11. ALL DISTURBED AREAS NOT SODDED SHALL BE SEEDED WITH A MIXTURE OF LONG-TERM VEGETATION AND QUICK GROWING SHORT-TERM VEGETATION FOR THE FOLLOWING CONDITIONS. FOR THE MONTHS FROM SEPTEMBER THROUGH MARCH, THE MIX SHALL CONSIST OF 70 POUNDS PER ACRE OF LONG-TERM SEED AND 20 POUNDS PER ACRE OF WINTER RYE. FOR THE MONTHS OF APRIL THROUGH AUGUST, THE MIX SHALL CONSIST OF 70 PER ACRE OF LONG-TERM SEED AND 20 POUNDS PER ACRE OF MILLET.
12. THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION. CONTRACTOR SHALL PROTECT ALL UTILITIES WITHIN THE PROJECT AREAS.
13. ALL UTILITY CONSTRUCTION SHALL MEET THE CITY OF LAKE CITY WATER AND WASTEWATER UTILITY STANDARDS, AVAILABLE FROM CITY HALL OR PUBLIC WORKS.
14. ALL INLINE WATER FITTINGS SHALL HAVE ONE MEGALUG AND TWO RESTRAINTS BEFORE AND AFTER EACH FITTING.
15. ALL SITE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE COLUMBIA COUNTY LAND DEVELOPMENT REGULATIONS.
16. CONTRACTOR SHALL REVIEW AND BECOME FAMILIAR WITH ALL REQUIRED UTILITY CONNECTIONS PRIOR TO BIDDING. CONTRACTOR SHALL PROVIDE ALL WORK AND MATERIALS REQUIRED TO COMPLETE CONNECTION TO THE EXISTING UTILITIES. THIS INCLUDES BUT IS NOT LIMITED TO MANHOLE CORING, WET TAPS, PAVEMENT REPAIRS AND DIRECTIONAL BORING.
17. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER CONTRACTORS WITHIN PROJECT AREA.
18. CONTRACTOR SHALL PROVIDE ACTUAL INVERT ELEVATIONS ON ALL DRAINAGE STRUCTURES, INCLUDING CULVERTS, PRIOR TO PLACING ANY BASE MATERIAL. DEVIATIONS FROM THE PLANS SHALL BE APPROVED BY THE ENGINEER BEFORE CONTINUING WORK.
19. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE F.D.O.T. STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION), FLORIDA BUILDING CODE (CURRENT EDITION), AWWA SPECIFICATIONS, AND COLUMBIA COUNTY DEVELOPMENT STANDARDS UNLESS OTHERWISE NOTED.
20. IF UNSUITABLE MATERIAL IS ENCOUNTERED DURING GRADING, CONTRACTOR SHALL REMOVE UNSUITABLE MATERIAL TO A DEPTH OF 24" BELOW FINISHED GRADE WITHIN THE CONSTRUCTION LIMITS.
21. THE CONTRACTOR SHALL NOTIFY COLUMBIA COUNTY AT LEAST 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION.
22. THE CONTRACTOR SHALL SUBMIT A NOTICE OF CONSTRUCTION COMMENCEMENT TO THE WATER MANAGEMENT DISTRICT AT LEAST 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.
23. THE CONTRACTOR SHALL NOTIFY THE CITY OF LAKE CITY AT LEAST 48 HOURS IN ADVANCE OF THE PRESSURE AND LEAKAGE TESTS.
24. NO FINAL TESTING OR PRESSURE TESTING WILL BE ACCEPTED UNLESS WITNESSED BY THE CITY OF LAKE CITY'S REPRESENTATIVE.



1 PARKING APRON TYPICAL SECTION
C-2 SCALE: N.T.S.

1-1/2" TYPE SP 12.5 ASPHALTIC CONCRETE
6" LIMEROCK BASE COURSE
12" COMPACTED SUBGRADE
MINIMUM L.B.R. 40

25. CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY MEETING THE REQUIREMENTS OF CHAPTER 61G17 F.A.C. FOR THE STORMWATER MANAGEMENT SYSTEMS. INCLUDE HORIZONTAL AND VERTICAL DIMENSIONAL DATA SO THAT IMPROVEMENTS ARE LOCATED AND DELINEATED RELATIVE TO THE BOUNDARY. PROVIDE SUFFICIENT DETAILED DATA TO DETERMINE WHETHER THE IMPROVEMENTS WERE CONSTRUCTED IN ACCORDANCE WITH THE PLANS. A COPY OF THE AS-BUILT SURVEY (IN PAPER AND DIGITAL AUTOCAD FORMAT) MUST BE SUBMITTED TO COLUMBIA COUNTY AND THE ENGINEER.
26. THE CONTRACTOR SHALL SUBMIT A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM NOTICE OF INTENT ALONG WITH SUPPORTING DOCUMENTATION TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AT LEAST 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMIT FEES.
27. IF DURING CONSTRUCTION OR OPERATION OF THE STORM WATER MANAGEMENT SYSTEM, A STRUCTURAL FAILURE IS OBSERVED THAT HAS THE POTENTIAL TO CAUSE THE DIRECT DISCHARGE OF SURFACE WATER INTO THE FLORIDAN AQUIFER SYSTEM, CORRECTIVE ACTIONS DESIGNED OR APPROVED BY A REGISTERED PROFESSIONAL SHALL BE TAKEN AS SOON AS PRACTICAL TO CORRECT THE FAILURE. A REPORT PREPARED BY A REGISTERED PROFESSIONAL MUST BE PROVIDED AS SOON AS PRACTICAL TO THE DEPARTMENT FOR REVIEW AND APPROVAL THAT PROVIDES REASONABLE ASSURANCE THAT THE BREACH WILL BE PERMANENTLY CORRECTED.
28. ALL CONCRETE SLABS ABUTTING EXTERIOR WALLS SHALL BE SOIL TREATED FOR TERMITES.



2 MITERED END TO CONC. DITCH CONNECTION DETAIL
C-2 SCALE: N.T.S.

SITE DATA TABLE
JEWEL LAKE ALF

SITE DATA TABLE			
PARCEL ID NUMBER	04-45-16-027-45-003	SQ. FT.	ACRES
ZONING	CG	274871	6.31
LAND USE	COMMERCIAL	95389	2.19
CITY COUNCIL DISTRICT NUMBER	2	274871	6.31
PHYSICAL ADDRESS	354 SW MABREY GLEN LAKE CITY, FL 32024	% OF SITE	% OF LOC
PROJECT PROPERTY BOUNDARY		100.00%	100.00%
PROJECT AREA / LIMITS OF CONSTRUCTION (LOC)		100.00%	100.00%
BOTH ON-SITE & OFF-SITE		100.00%	100.00%
EXISTING IMPERVIOUS AREA ON-SITE		0	0.00%
EXISTING ASPHALT PAVEMENT		0	0.00%
EXISTING CONCRETE		0	0.00%
EXISTING BUILDING		0	0.00%
EXISTING STORMWATER MANAGEMENT FACILITY		0	0.00%
TOTAL EXISTING IMPERVIOUS AREA ON-SITE		0	0.00%
PROPOSED IMPERVIOUS AREA ON-SITE		0	0.00%
EXISTING ASPHALT PAVEMENT TO REMAIN		0	0.00%
EXISTING CONCRETE TO REMAIN		0	0.00%
EXISTING BUILDING TO REMAIN		0	0.00%
EXISTING STORMWATER MANAGEMENT FACILITY TO REMAIN		0	0.00%
PROPOSED ASPHALT PAVEMENT		17028	0.39
PROPOSED BUILDING		22838	0.52
PROPOSED STORMWATER MANAGEMENT FACILITY		15246	0.35
TOTAL PROPOSED IMPERVIOUS AREA ON-SITE		57892	1.33
PROPOSED PARKING LANDSCAPE AREA ON-SITE		216979	4.98
REQUIRED PARKING		3064	0.07
PROVIDED PARKING		68 BEDS @ 1 SPACE PER 3 BEDS = 23 SPACES INCLUDING 1 HANDICAP SPACE	78.94%
SPACES TOTAL		23 SPACES + 2 HANDICAP SPACES = 25	39.31%

GENERAL NOTES
JEWEL LAKE ALF

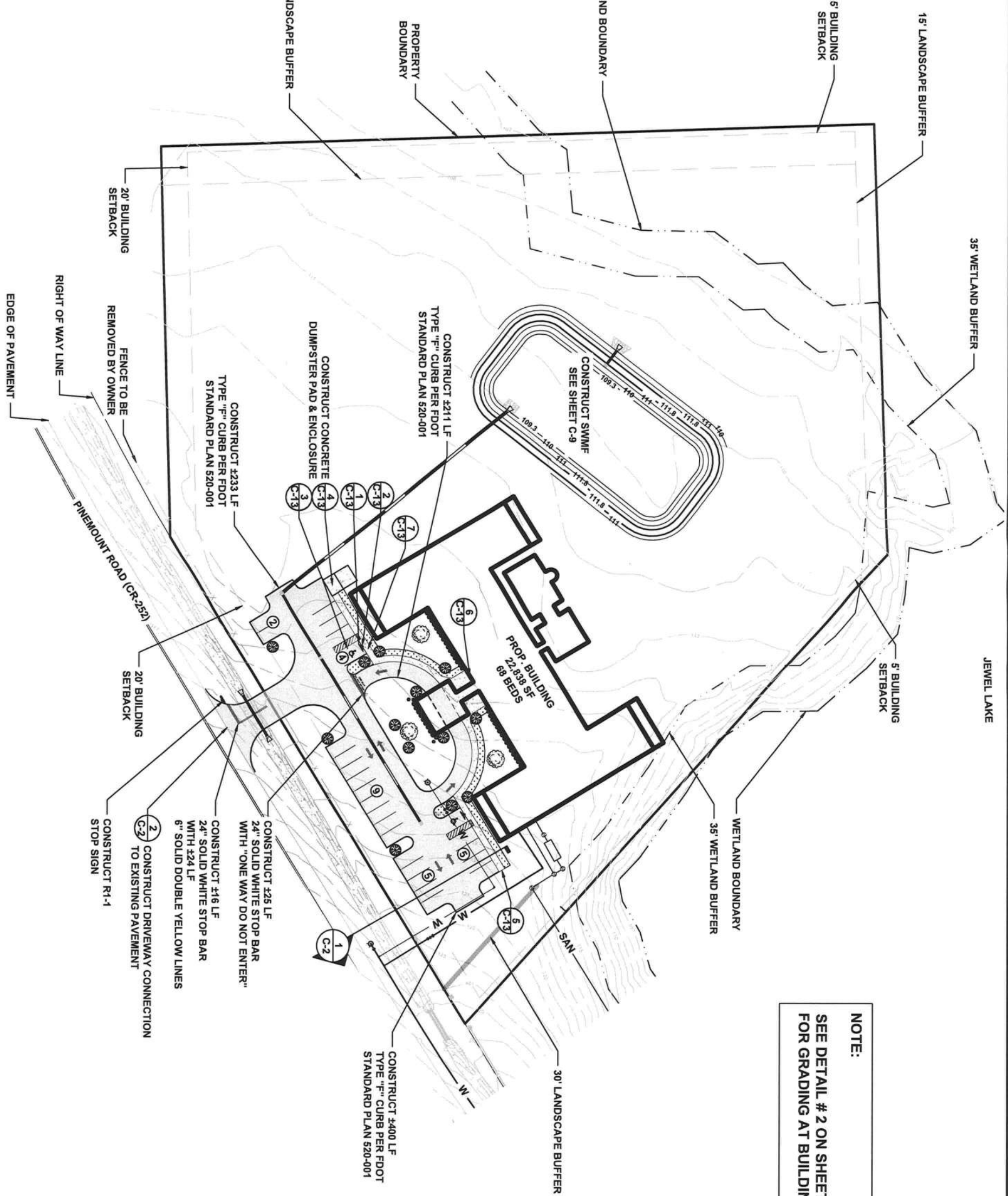


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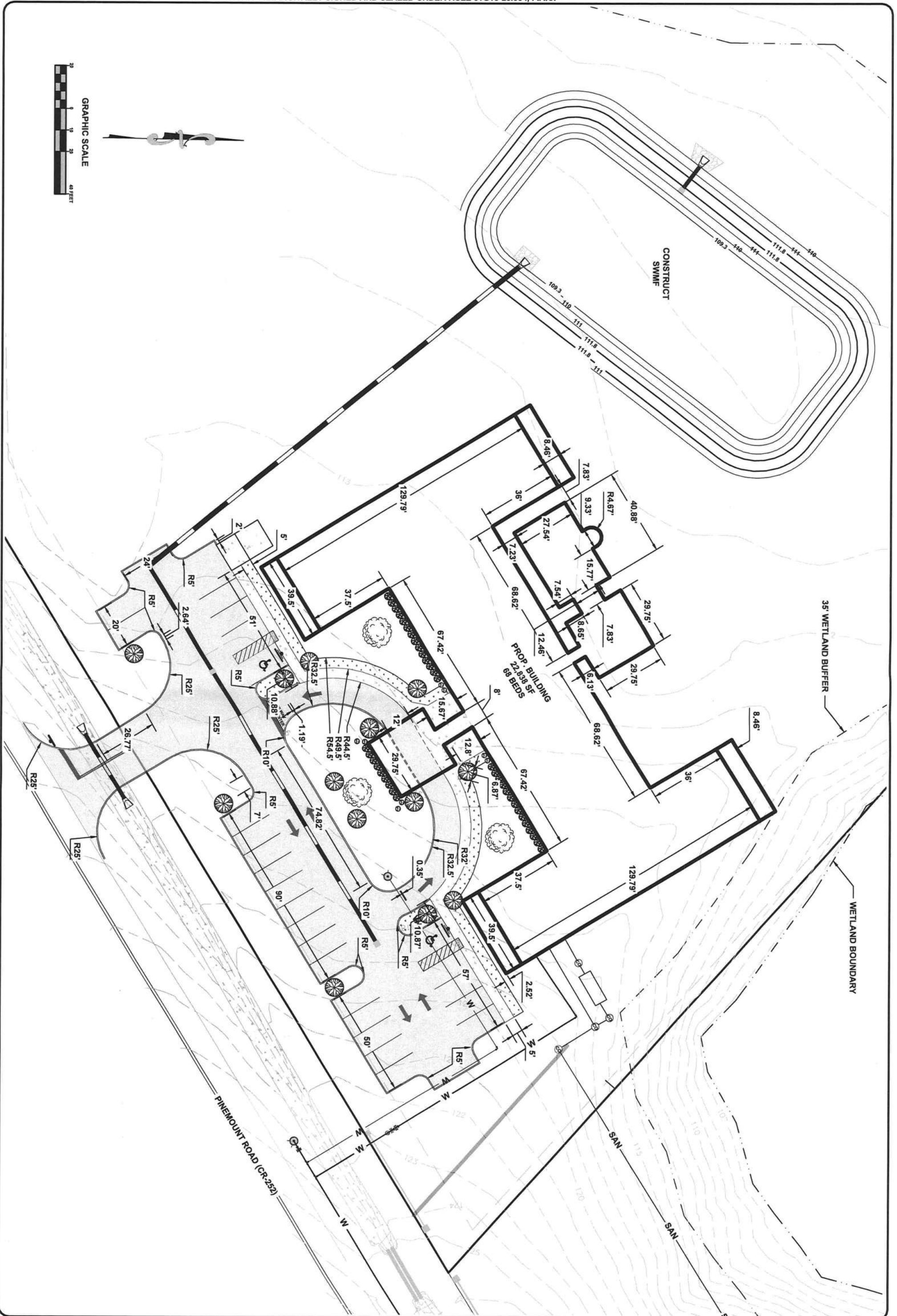
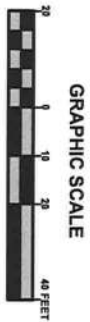


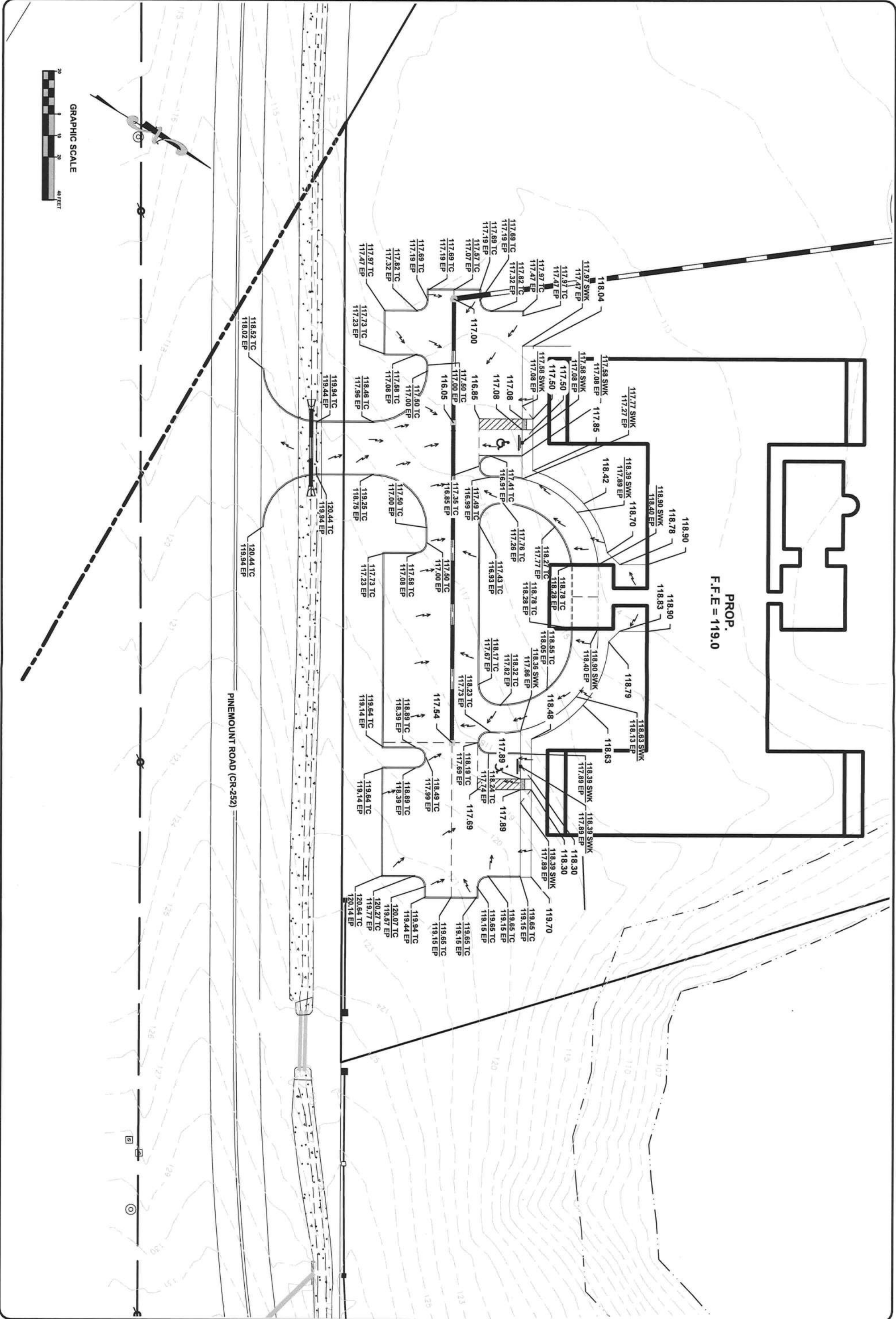
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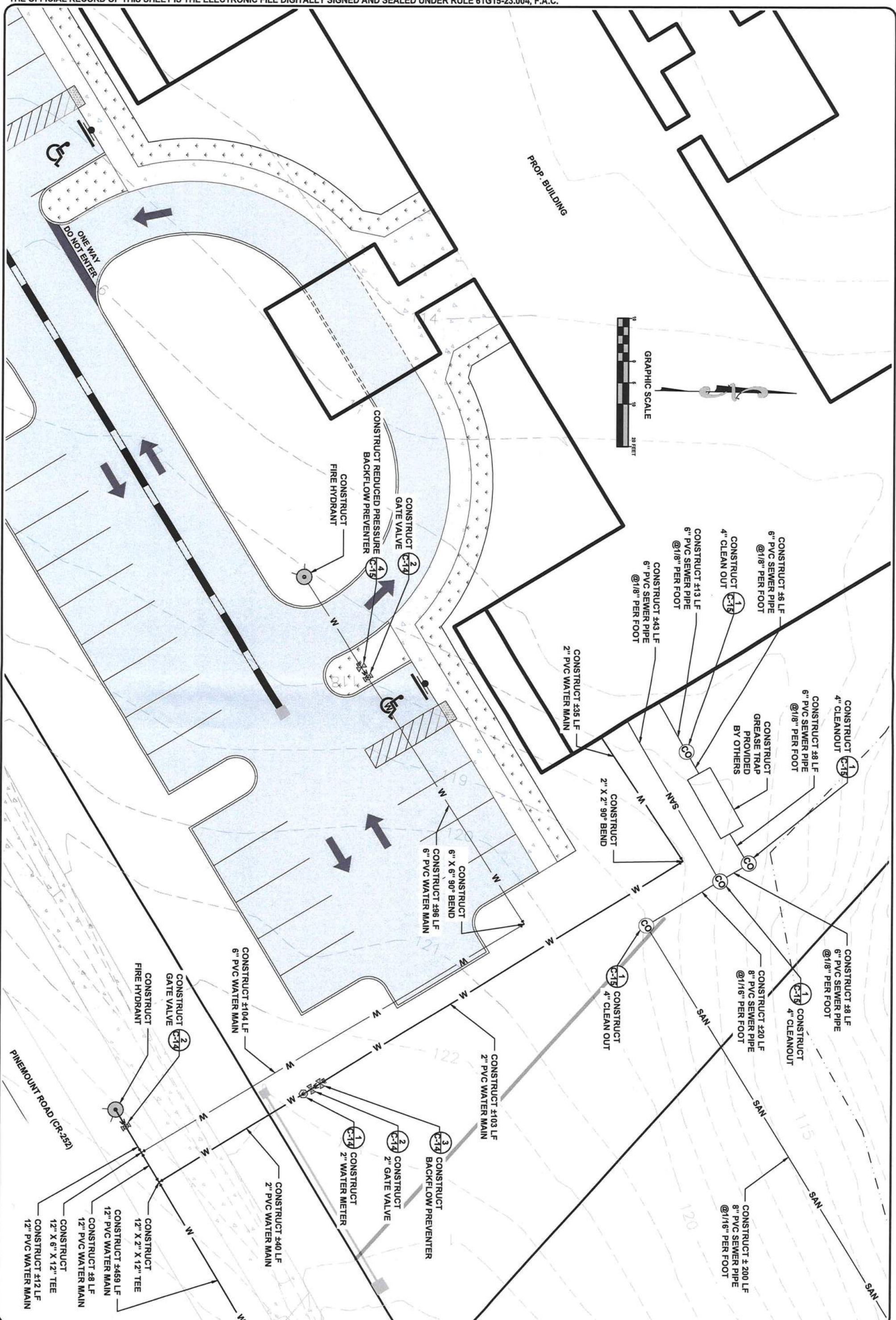
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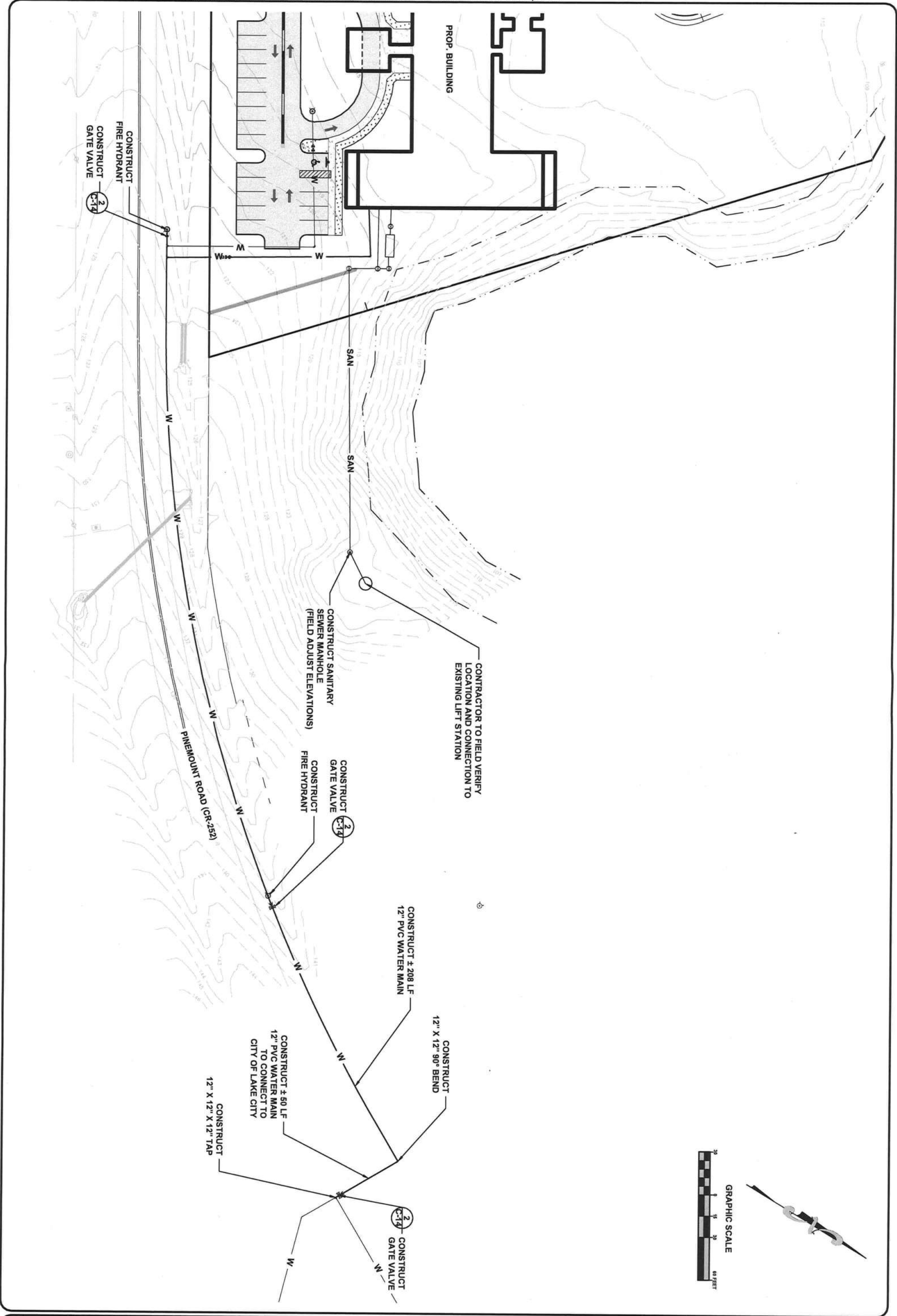


NOTE:
SEE DETAIL # 2 ON SHEET C-15
FOR GRADING AT BUILDING









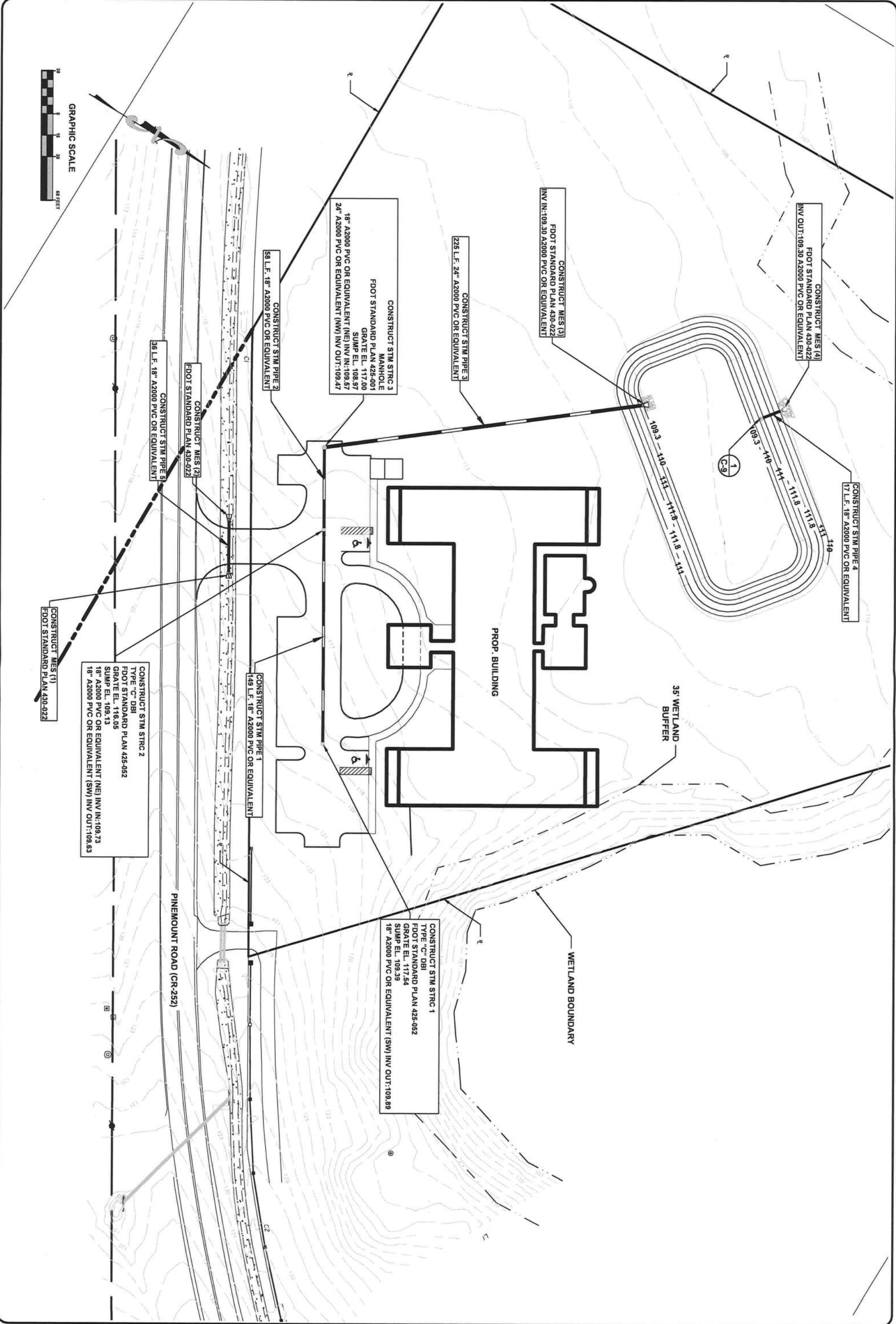
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ENGINEER OF RECORD: GREG BAILEY			

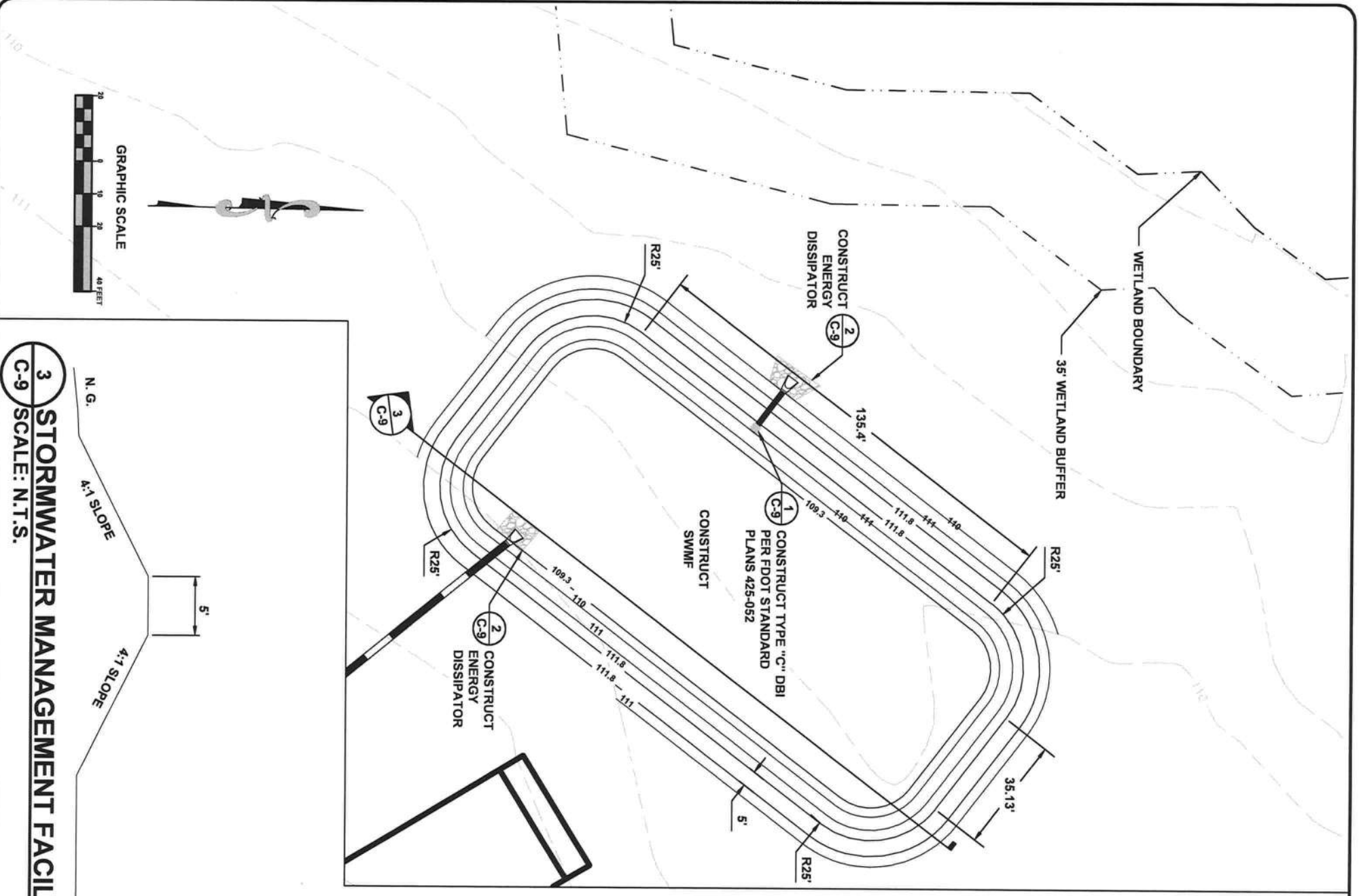
REVISIONS:

UTILITY PLAN
JEWEL LAKE ALF

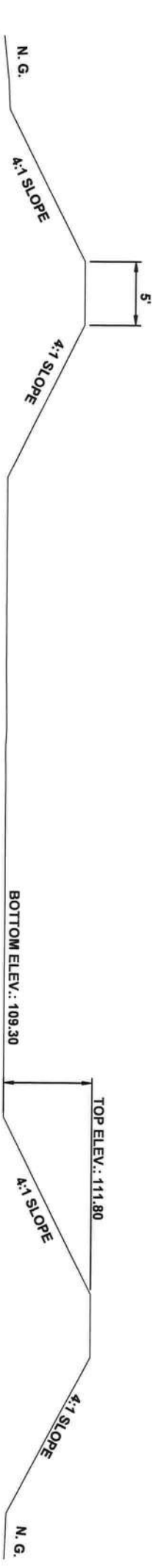


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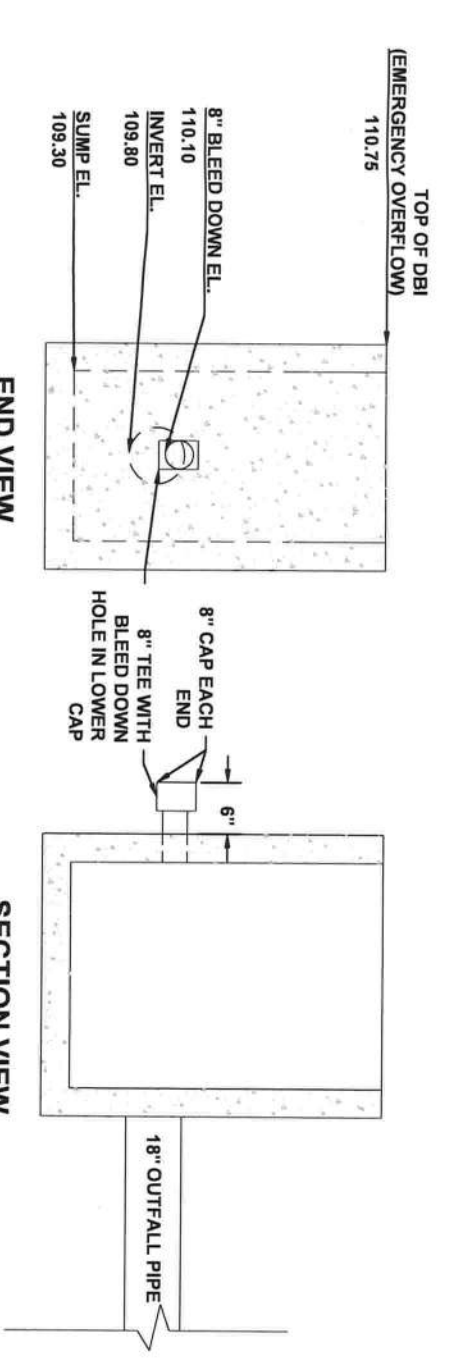




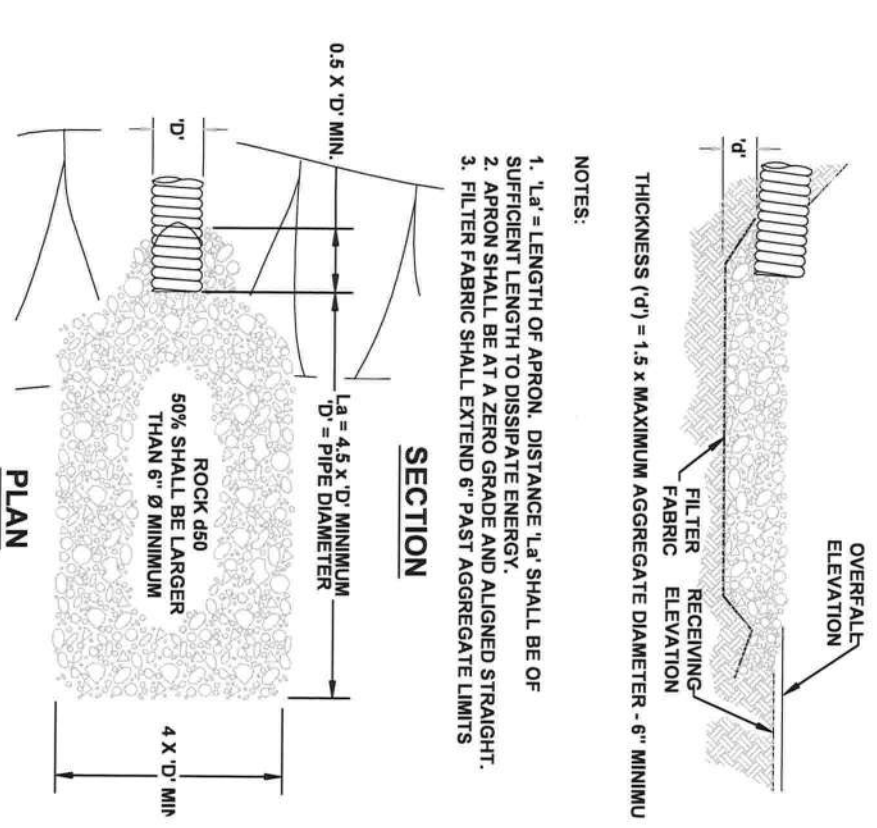
3 STORMWATER MANAGEMENT FACILITY DETAIL
C-9 SCALE: N.T.S.

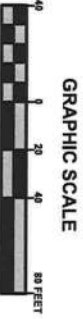


1 STORMWATER MANAGEMENT FACILITY DETAIL
C-9 SCALE: N.T.S.

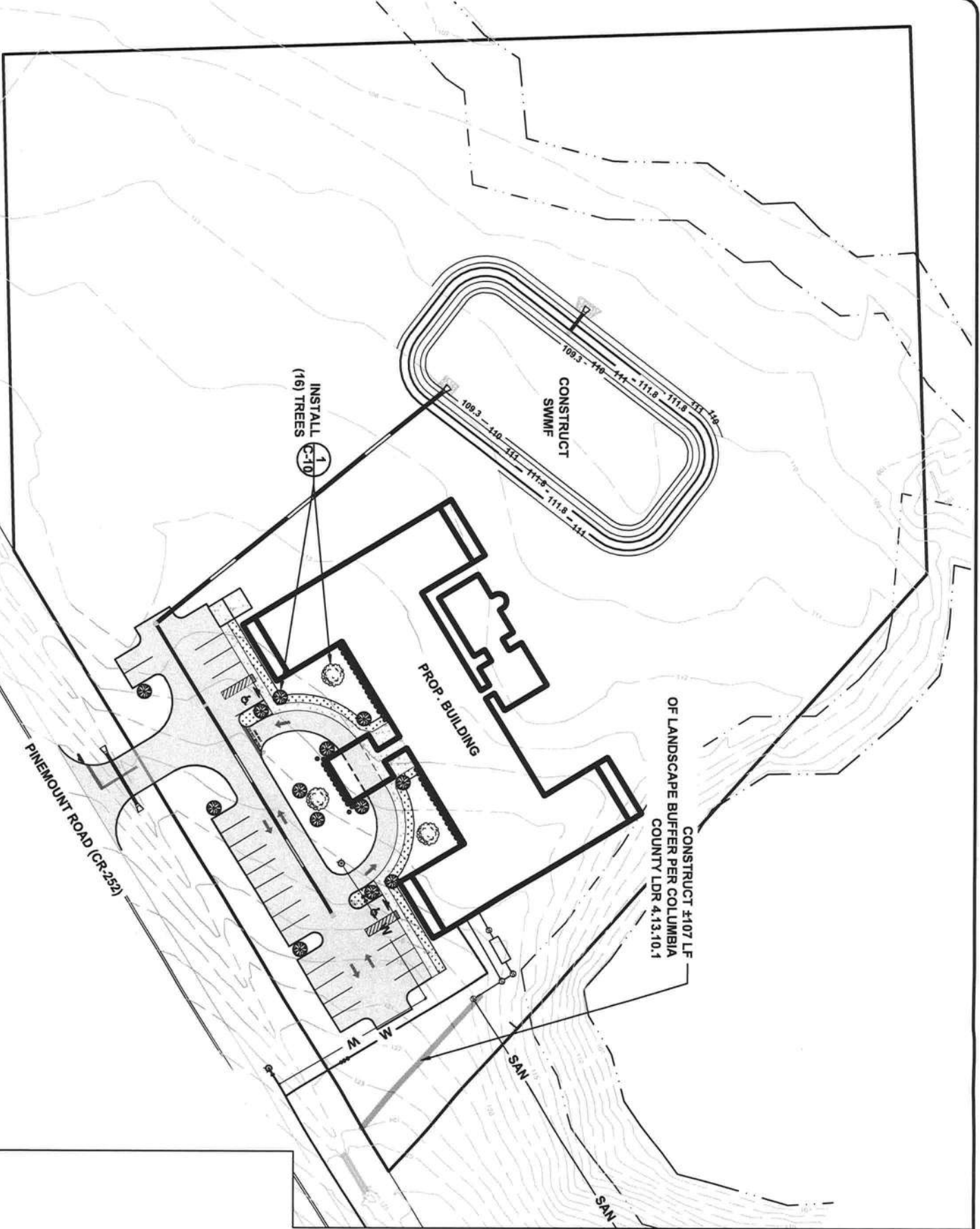


2 ENERGY DISSIPATOR DETAIL
C-9 SCALE: N.T.S.





NOTE:
AREAS WITHIN THE REQUIRED 30' LANDSCAPE BUFFER
CONTAIN NATURAL VEGETATION THAT MEETS
THE REQUIREMENTS OF COLUMBIA COUNTY'S LDR 4.13.10.1



TREE AND SHRUBBERY REQUIREMENTS			
MAP SYMBOL	COMMON NAME	SCIENTIFIC NAME	NO. NOTES
	GRASS / SOD		
	DWARF AZALEAS / KNOCK OUT ROSE	RHODODENDRON ATLANTICUM / ROSA RADRAZZ	8
	CREPE MYRTLE	LAGERSTROEMIA	13
	BOX WOODS	BUXUS	37
	OAK TREE	QUERCUS	3

LANDSCAPE REQUIREMENTS

COLUMBIA COUNTY LDR 4.2.17.10

LANDSCAPE
CALCULATION FOR REQUIRED LANDSCAPE AREA:
10% OF OFFSTREET PARKING PROVIDED
10% OF 17,028 SF OFFSTREET PARKING =
1,703 SF OF REQUIRED LANDSCAPE AREA
TOTAL LANDSCAPED AREA PROVIDED = 3,064 SF

COLUMBIA COUNTY LDR 4.2.13.2

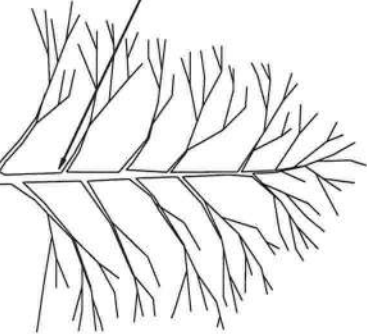
SUBSTITUTION FOR LANDSCAPE BUFFER AREAS CAN BE A
6" HIGH MASONRY OR WOOD OPAQUE FENCE

COLUMBIA COUNTY LDR 4.13.10.1

REQUIRES A MINIMUM OF A 30' WIDE LANDSCAPE BUFFER
FOR THE REAR AND SIDE YARDS WHEN LOCATED
ADJACENT TO RESIDENTIAL DISTRICTS

TREES
CALCULATION FOR REQUIRED NUMBER OF TREES:
1 PER 200 SF OF REQUIRED LANDSCAPED AREA
3,064 SF / 200 SF = 15.32 TREES (16) REQUIRED
TOTAL NUMBER OF TREES PROVIDED = 16

MARK THE NORTH SIDE OF THE
TREE IN THE NURSERY,
AND ROTATE TREE TO FACE
NORTH AT THE SITE WHEN
EVER POSSIBLE.



- NOTES:
- DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGGS AND LATERAL BRANCHES MAY BE PRUNED; HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.
 - STAKE TREES ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT.
 - WRAP TREE TRUNKS ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT.

MULCH RING 1800 MM (6 FT.) DIAM.
MIN. 2400 MM (8 FT.) DIAM. PREFERRED
50 MM (2 IN.) MULCH, DO NO PLACE MULCH
IN CONTACT WITH TREE TRUNK.
MAINTAIN THE MULCH WEED-FREE FOR A
MINIMUM OF THREE YEARS AFTER
PLANTING.

REMOVE ALL TWINE, ROPE AND WIRE, AND
BURLAP FROM TOP HALF OF ROOT BALL.
IF PLANT IS SHIPPED WITH A WIRE BASKET
AROUND THE ROOT BALL, CUT THE WIRE
BASKET IN FOUR PLACES AND FOLD DOWN
200 MM (8 IN.) INTO PLANTING HOLE.
PLACE ROOT BALL ON
UNECAVATED OR TAMPED SOIL.
TAMP SOIL AROUND ROOT BALL BASE FIRMLY
WITH FOOT PRESSURE SO THAT ROOT BALL DOES
NOT SHIFT.

1 TREE PLANTING DETAIL

C-10 SCALE: N.T.S.

LANDSCAPE PLAN

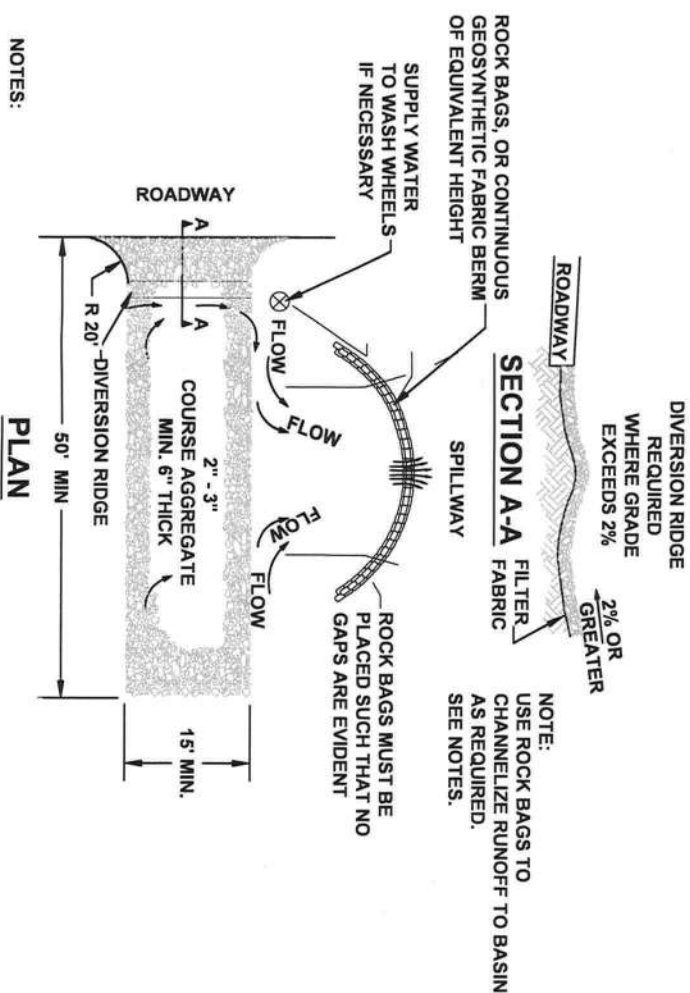
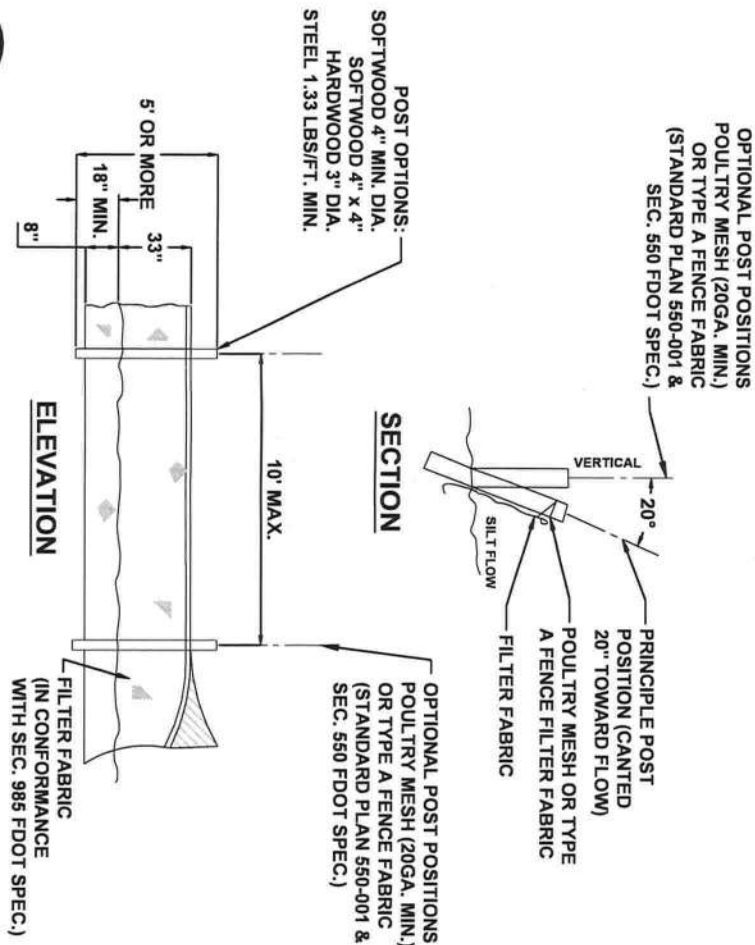
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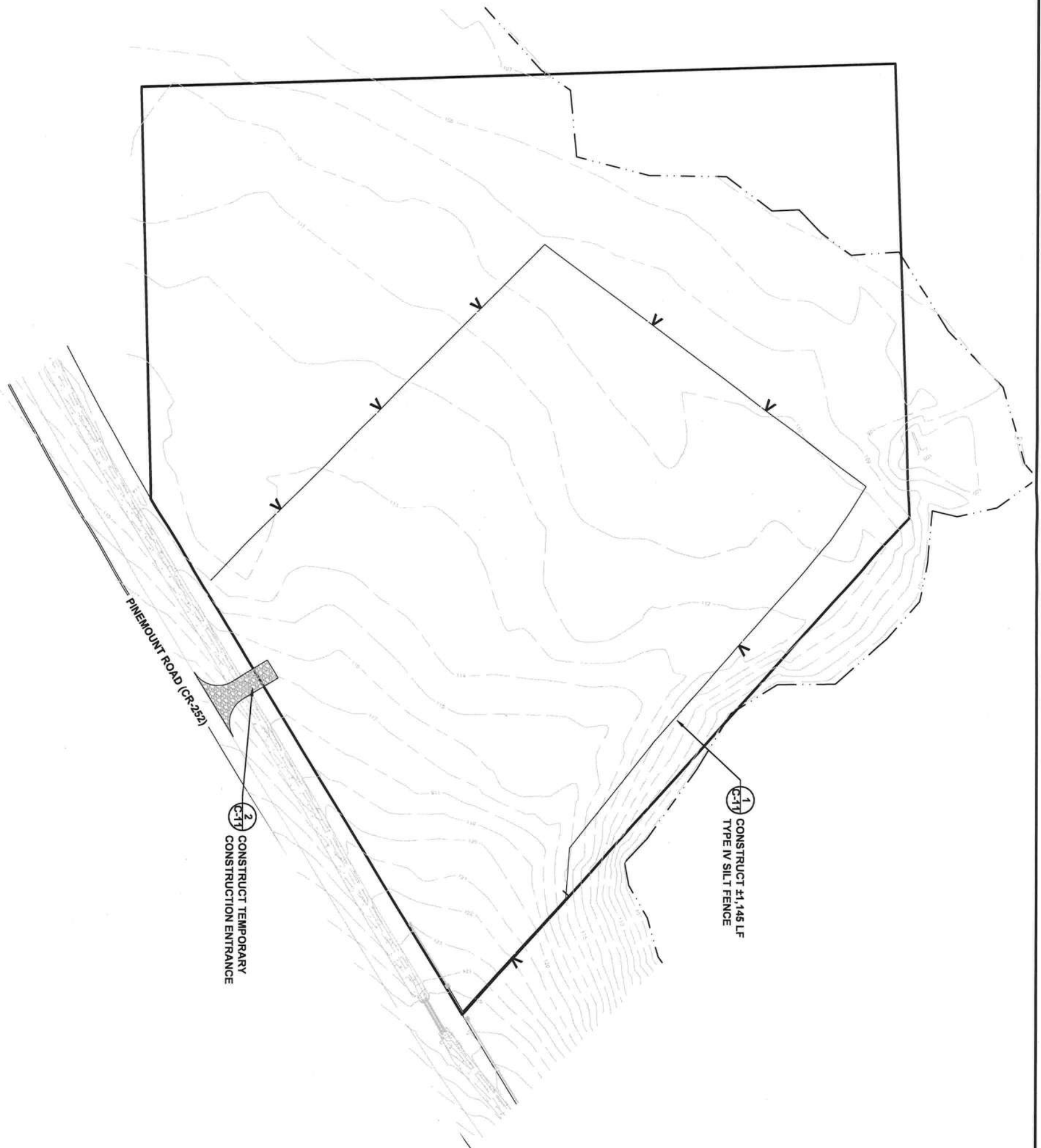
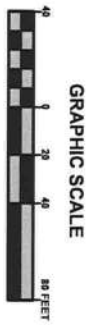
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EROSION CONTROL NOTES

1. THIS EROSION AND SEDIMENTATION CONTROL PLAN COMPLIES WITH THE REQUIREMENTS OF THE "FLORIDA DEVELOPMENT MANUAL" AND THE "FLORIDA EROSION AND SEDIMENT CONTROL INSPECTOR'S MANUAL".
2. THE CONTRACTOR SHALL ADHERE TO COLUMBIA COUNTY, SRWMD, AND OTHER GOVERNING AUTHORITIES FOR EROSION AND SEDIMENT CONTROL REGULATIONS. IF THE CONTRACTOR NEEDS TO CHANGE THIS PLAN TO MORE EFFECTIVELY CONTROL EROSION AND SEDIMENTATION, THE CONTRACTOR SHALL USE BMP'S FROM THE "FLORIDA EROSION AND SEDIMENT CONTROL INSPECTOR'S MANUAL".
3. THE CONTRACTOR SHALL ADJUST AND REVISE THIS PLAN TO MEET ACTUAL FIELD CONDITIONS. ANY REVISIONS SHALL BE APPROVED BY THE REVIEWING AGENCIES.
4. SEDIMENT AND EROSION CONTROL FACILITIES, STORM DRAINAGE FACILITIES AND DETENTION BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
5. EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL OF 0.5 INCHES OR GREATER, AND REPAIRED OR REPLACED AS NECESSARY.
6. SEDIMENT AND EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL CONSTRUCTION IS COMPLETE AND UNTIL A PERMANENT GROUND COVER HAS BEEN ESTABLISHED.
7. ALL OPEN DRAINAGE SWALES SHALL BE GRASSED AND RIP RAP SHALL BE PLACED AS REQUIRED TO CONTROL EROSION.
8. SILT FENCES SHALL BE LOCATED ON SITE TO PREVENT SEDIMENT AND EROSION FROM LEAVING PROJECT LIMITS.
9. CONTRACTOR SHALL PLACE A DOUBLE ROW OF SILT FENCE IN AREAS WHERE RUNOFF FROM DISTURBED AREAS MAY ENTER WETLANDS.
10. DURING CONSTRUCTION AND AFTER CONSTRUCTION IS COMPLETE, ALL STRUCTURES SHALL BE CLEANED OF ALL DEBRIS AND EXCESS SEDIMENT.
11. ALL GRADED AREAS SHALL BE STABILIZED IMMEDIATELY WITH A TEMPORARY FAST-GROWING COVER AND/OR MULCH.
12. A PAD OF RUBBLE RIP RAP SHALL BE PLACED AT THE BOTTOM OF ALL COLLECTION FLUMES AND COLLECTION PIPE OUTLETS. GRANITE OR LIMESTONE RIPRAP IS REQUIRED, NO BROKEN CONCRETE WILL BE ACCEPTED.
13. ALL SIDE SLOPES STEEPER THAN 3:1 SHALL BE ADEQUATELY PROTECTED FROM EROSION THROUGH THE USE OF SYNTHETIC BALES OR SODDING.
14. ALL STABILIZATION PRACTICES SHALL BE INITIATED AS SOON AS PRACTICABLE IN AREAS OF THE JOB WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY STOPPED, BUT IN NO CASE SHALL THE DISTURBED AREA BE LEFT UNPROTECTED FOR MORE THAN SEVEN DAYS.
15. ALL WASTE GENERATED ON THE PROJECT SHALL BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY CONTRACTOR.
16. LOADED HAUL TRUCKS SHALL BE COVERED WITH TARPS.
17. EXCESS DIRT SHALL BE REMOVED DAILY.
18. THIS PROJECT SHALL COMPLY WITH ALL WATER QUALITY STANDARDS. PERMIT REQUIRED FROM SRWMD HAS BEEN OBTAINED.
19. QUALIFIED PERSONNEL SHALL INSPECT THE AREA USED FOR STORAGE OF STOCKPILES, THE SILT FENCE AND STRAW BALES, THE LOCATION WHERE VEHICLES ENTER OR EXIT THE SITE, AND THE DISTURBED AREAS THAT HAVE NOT BEEN FINALLY STABILIZED, AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM OF 0.5 INCHES OR GREATER.
20. SITES THAT HAVE BEEN FINALLY STABILIZED WITH SOD OR GRASSING SHALL BE INSPECTED AT LEAST ONCE EVERY WEEK.



2 TEMPORARY CONSTRUCTION ENTRANCE
C-11 SCALE: N.T.S.



C-13 SCALE: N.T.S.

Technical drawing of a wheel assembly, showing side and cross-sectional views with dimensions.

Side View Dimensions:

- Overall width: 6'-0"
- Top flange width: 12"
- Wheel width: 2" MIN. - 3" MAX.
- Hub width: 2" MIN. - 3" MAX.
- Hub diameter: 4" MIN. - 5" MAX.
- Hub bore diameter: 3" OR 3 1/2" HOLES
- Hub bore length: 5" MIN. - 6" MAX.
- Hub bore pitch: 1" PITCH OPTIONAL
- Hub bore material: R=2" CAST OR RUBBED

Cross-sectional View Dimensions:

- Hub diameter: 4" MIN. - 5" MAX.
- Hub bore diameter: 3" OR 3 1/2" HOLES
- Hub bore length: 5" MIN. - 6" MAX.
- Hub bore pitch: 1" PITCH OPTIONAL
- Hub bore material: R=2" CAST OR RUBBED

Assembly Notes:

- 2 - 18" #4 BARS (2 PER WHEEL STOP TYP.)

C-13 SCALE: N.T.S.

Technical drawing of a 1.5' Series "C" Sign. The sign is rectangular with a total width of 1.5' and a height of 18". It features a central panel with a wheelchair symbol and the text "PARKING BY DISABLED PERMIT ONLY". The sign is mounted on a post with a "POST BORDER" and a "BLACK BORDER AND LETTERS". The sign is made of "REFLECTIVE 1.25" WHITE LETTERS" and "REFLECTIVE BLUE" material. The sign is mounted on a "FINISHED GRADE". The sign is made of "SIGN FTP 55" material. The sign is made of "FINE = \$250.00". The sign is made of "FINE AMOUNT VARIES FROM CITY/COUNTY. REFER TO LOCAL JURISDICTION FOR AMOUNT." The sign is made of "CONTRACTOR SHALL VERIFY."

1.5' SERIES "C" SIGN

SIGN FTP 55
FINE = \$250.00
FINE AMOUNT VARIES FROM CITY/COUNTY. REFER TO LOCAL JURISDICTION FOR AMOUNT.
CONTRACTOR SHALL VERIFY.

REFLECTIVE 1.25" WHITE LETTERS
REFLECTIVE BLUE
REFLECTIVE WHITE
REFLECTIVE WHITE
REFLECTIVE WHITE
REFLECTIVE WHITE

1.5' 12" 6" 18" 10.5" 4" 12" 7"

PARKING BY DISABLED PERMIT ONLY

BLACK BORDER AND LETTERS
POST BORDER
FINISHED GRADE

SIGN NOTES:
1. SIGN CONSTRUCTION, DESIGN

C-13/SCALE: N.T.S.

[illegible]

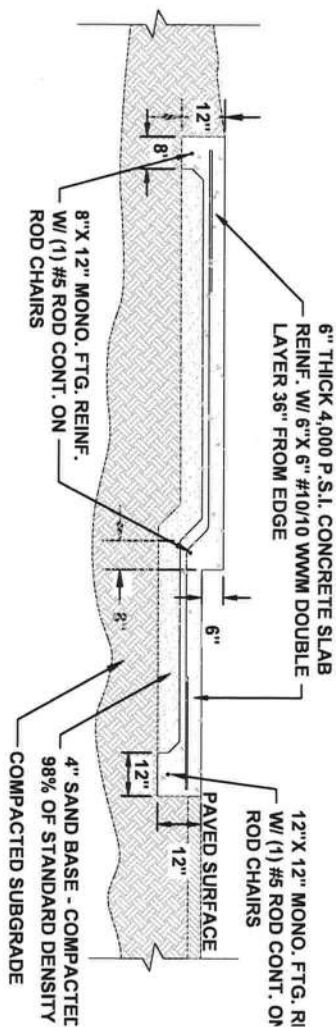
C-13 SCALE: N.T.S.

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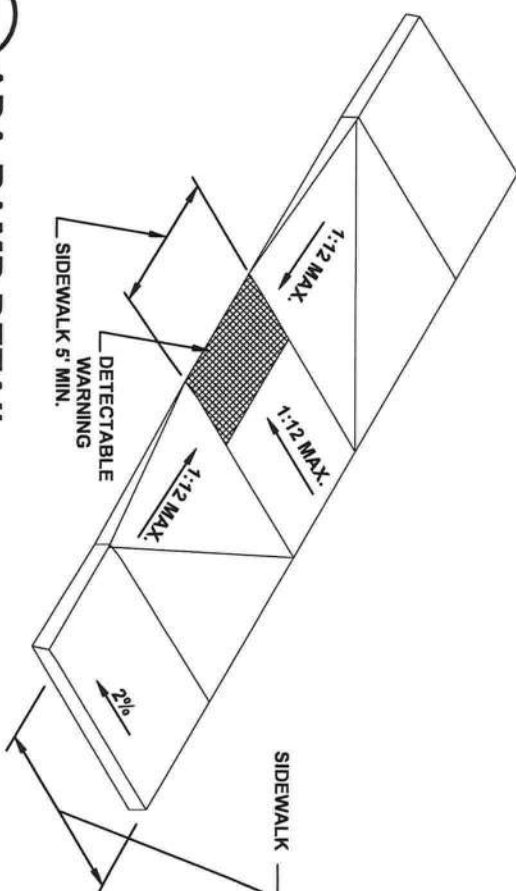
C-13 SCALE: N.T.S.

C-13 SCALE: N.T.S.

SECTION VIEW



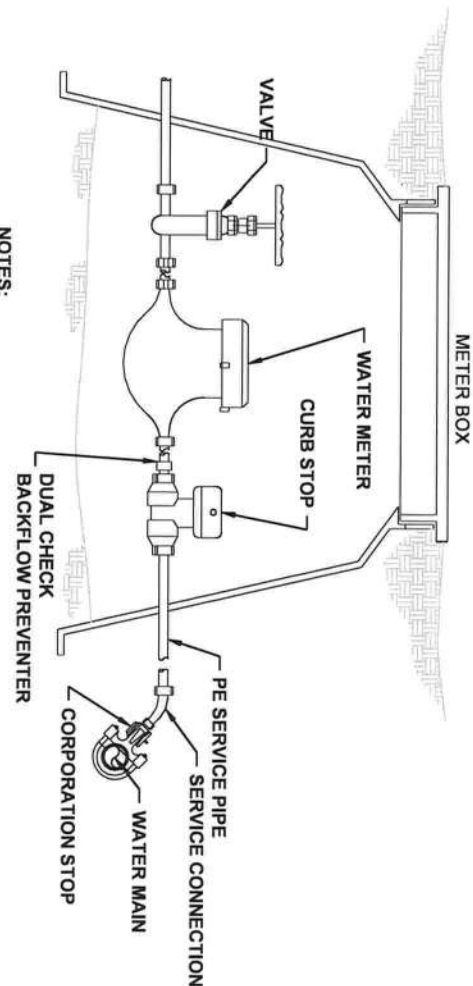
C-13/SCALE: N.T.S.



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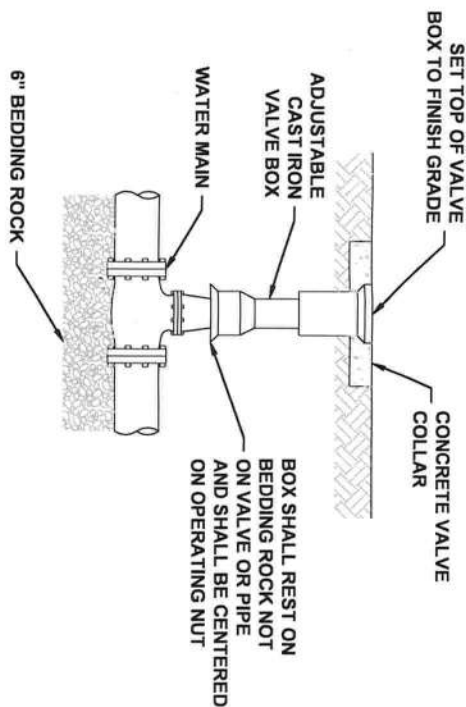
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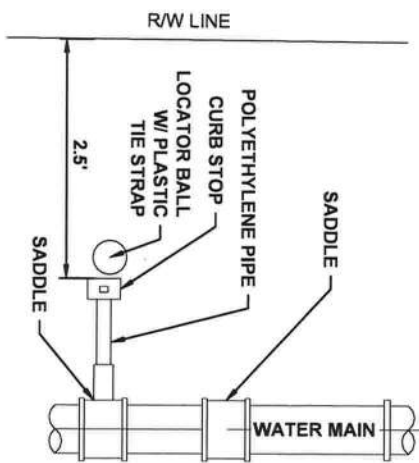
- NOTES:
1. P.E. TUBING IS TO BE BACKFILLED BY HAND UP TO THE TOP OF THE SERVICE.

1 METER BOX ASSEMBLY
C-14 SCALE: N.T.S.

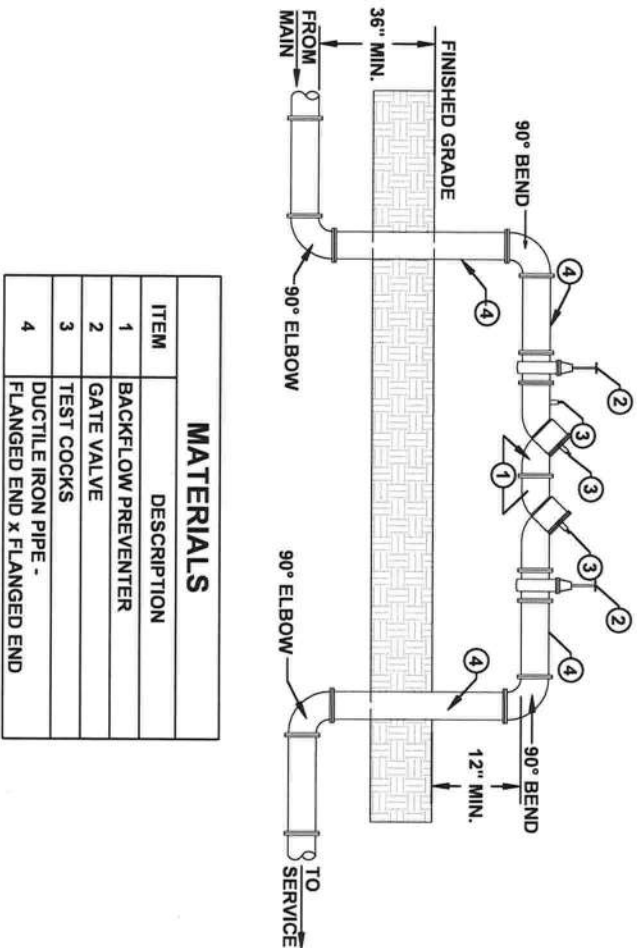


- NOTES:
1. PVC EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION.
 2. THE ACTUATING NUT FOR DEEPER VALVES SHALL BE EXTENDED TO COME UP TO 4 FOOT DEPTH BELOW FINISHED GRADE.

2 VALVE AND BOX DETAIL
C-14 SCALE: N.T.S.



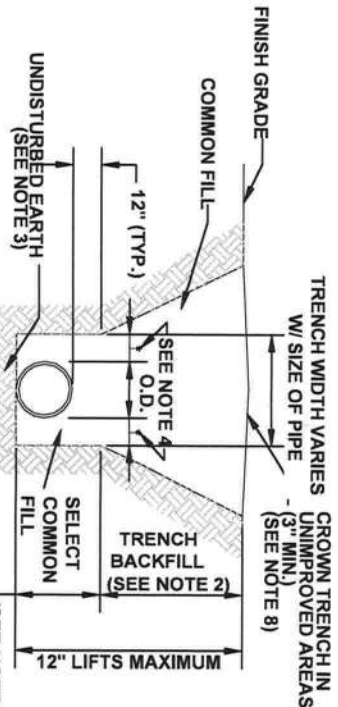
PLAN



MATERIALS	
ITEM	DESCRIPTION
1	BACKFLOW PREVENTER
2	GATE VALVE
3	TEST COCKS
4	DUCTILE IRON PIPE - FLANGED END x FLANGED END

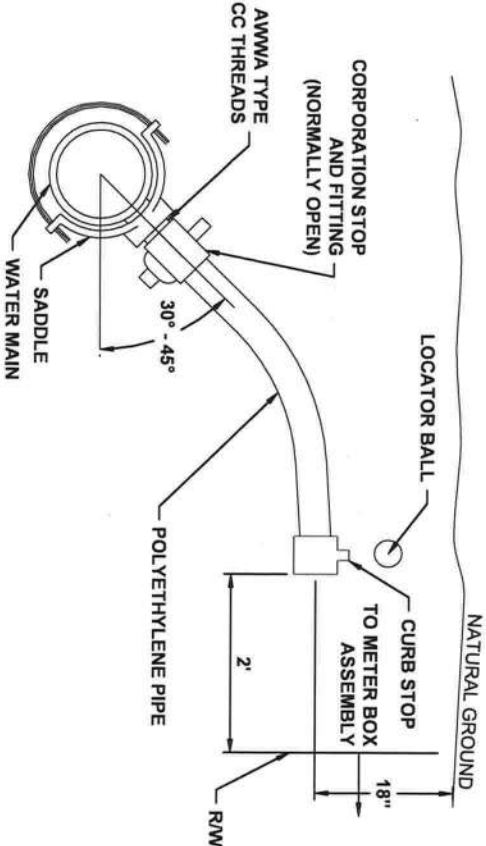
- NOTES:
1. UNDER NO CONDITION WILL ANY CONNECTION BE ALLOWED BETWEEN THE SERVICE METER AND A BACKFLOW PREVENTER USED FOR SYSTEM CONTAINMENT. BACKFLOW PREVENTER SHALL ALWAYS BE INSTALLED DOWNSTREAM OF METER.
 2. UNDER NO CIRCUMSTANCES, SHALL TEST PORTS BE MODIFIED OR UTILIZED FOR THIS OR OTHER APPLICATION OTHER THAN BACKFLOW DEVICE TESTING.
 3. PROVIDE AND INSTALL COVER OVER BACKFLOW PREVENTER AS REQD BY LOCAL AUTHORITIES

3 DOUBLE CHECK BACKFLOW PREVENTER
C-14 SCALE: N.T.S.



- NOTES:
1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
 2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
 3. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK WILL BE REQUIRED IF OVER-EXCAVATION OCCURS.
 4. (1) 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER.
 5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
 6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
 7. PROVIDE TRENCH SLOPING AND BRACING AS REQUIRED FOR SAFETY.
 8. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN PAVED AREAS SHALL COMPLY WITH THE REQUIREMENTS OF THE ROAD CONSTRUCTION SPECIFICATIONS.

4 TRENCH AND BACKFILL DETAILS
C-14 SCALE: N.T.S.



SINGLE SERVICE PROFILE

- NOTES:
1. ALL FITTINGS SHALL BE BRASS WITH COMPRESSION/ PACK JOINT TYPE CONNECTIONS.
 2. NO SERVICE LINE SHALL TERMINATE UNDER A DRIVEWAY.
 3. EACH SERVICE LINE SHALL TERMINATE AT A CURB STOP WHICH SHALL BE BURIED APPROXIMATELY 3" BELOW FINAL GRADE AND SHALL BE CLEARLY MARKED WITH A 2" x 2" x 18" STAKE WITH THE TOP PAINTED BLUE AND MARKED WITH THE NUMBER OF THE LOT TO BE SERVED.
 4. CONTRACTOR SHALL PROVIDE LOCATOR BALLS W/ PLASTIC TIE STRAPS. LOCATOR BALLS SHOULD BE SECURED TO LATERAL W/ TIE STRAP.

5 WATER SERVICE CONNECTION DETAILS
C-14 SCALE: N.T.S.

MISC. DETAILS
JEWEL LAKE ALF

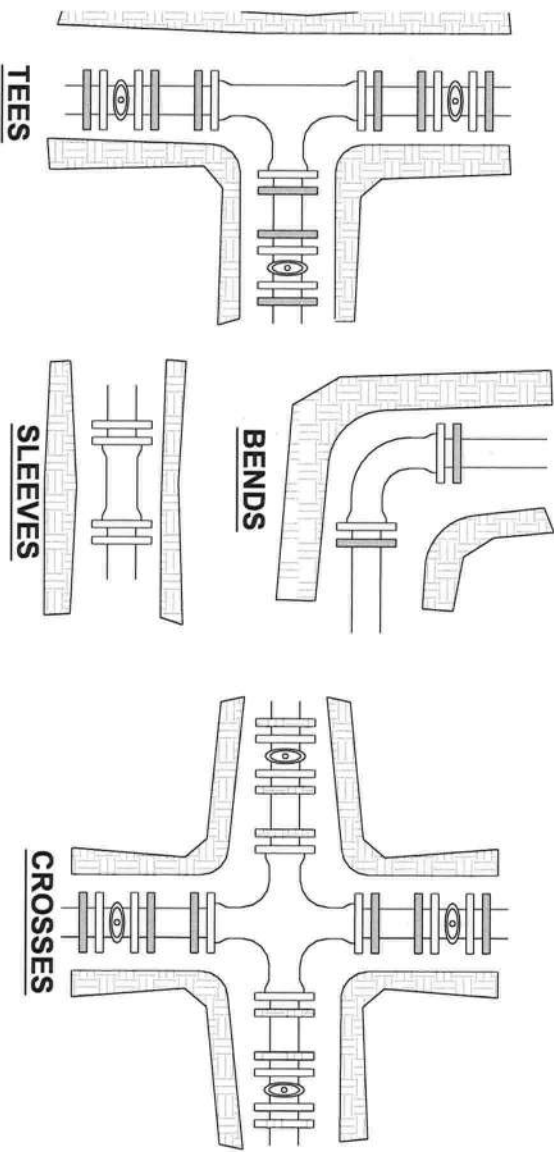


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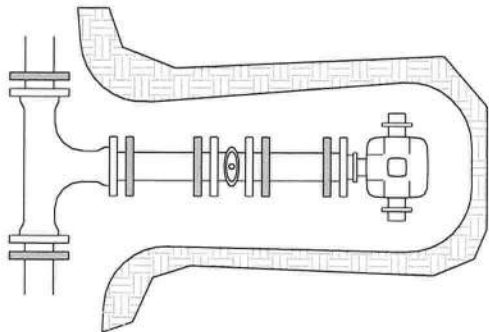
JOB NUMBER: L190107SMI	REVISIONS:
DESIGNED BY: TH	DRAFTED BY: JC
CHECKED BY: GB	ENGINEER OF RECORD: GREG BAILEY
DATE: 01/19	SHEET NO: C-14

LENGTH (L) TO BE RESTRAINED

NOMINAL PIPE SIZE (IN.)	HORIZONTAL BENDS				VERTICAL OFFSETS 45° BENDS (SEE NOTE 4)	VALVES OR DEAD-ENDS
	90° BENDS L (FT.)	45° BENDS L (FT.)	22.5° BENDS L (FT.)	11.25° BENDS L (FT.)	LU (FT.)	LU (FT.)
4	20	8	4	2	20	3
6	28	10	5	2	28	4
8	36	14	6	3	36	5
10	40	18	8	4	45	6
12	50	20	9	4	52	8
14	56	23	10	5	60	9
16	60	26	11	6	67	10
18	69	29	12	6	74	12
20	75	32	13	7	80	13
24	76	33	15	7	81	14
30	88	36	18	9	97	16
36	100	40	20	10	110	20
42	115	48	23	11	125	24
48	125	52	25	12	140	30



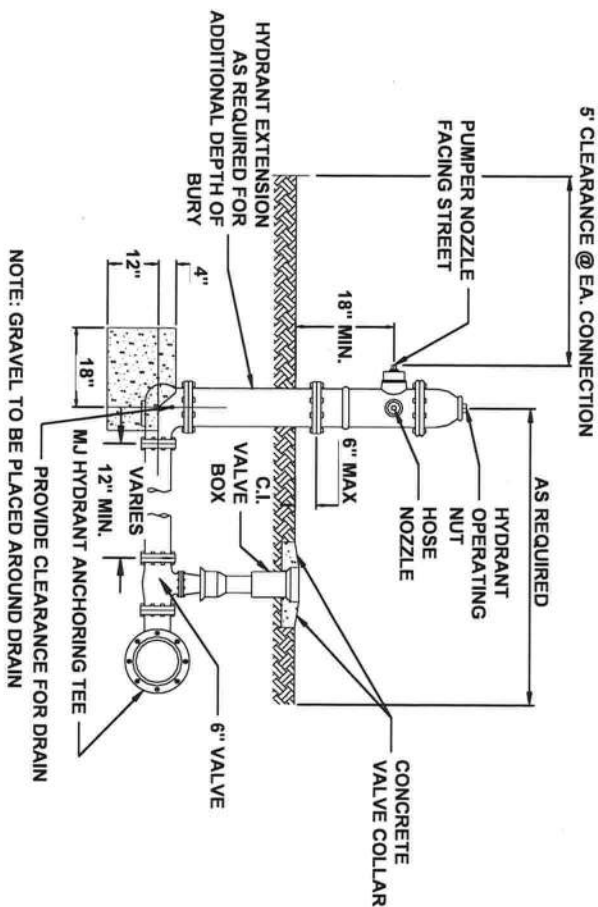
HYDRANT LEADS



TEES (NOTE 5)			REDUCERS	
RUN SIZE	BRANCH SIZE	L (FT.)	SIZE	L (FT.)
4"	4"	F.O.	6X4	35
6"	6"	10 F.O.	8X6	35
8"	8"	30 F.O.	8X4	65
10"	10"	48 F.O.	10X8	35
12"	12"	65 F.O.	10X6	65
16"	16"	100 F.O.	12X10	35
20"	20"	130 F.O.	12X8	65
24"	24"	130 F.O.	16X12	65
30"	30"	140 F.O.	16X10	95
36"	36"	180 F.O.	20X18	35
42"	42"	220 F.O.	20X16	65
48"	48"	250 F.O.	20X12	120

F.O. = FITTING ONLY

- PVC PIPE RESTRAINT NOTES:
- THIS SCHEDULE SHALL BE UTILIZED ON ALL WATER, SEWER FORCE MAIN OR RECLAIMED WATER SYSTEMS. ALL FITTINGS SHALL BE RESTRAINED TO LENGTHS INDICATED ON THE ABOVE SCHEDULE. AT A MINIMUM, UNLESS OTHERWISE INDICATED, ALL REQUIRED RESTRAINTS SHALL BE INCLUDED IN PRICE OF FITTING, VALVE OR PIPE.
 - ASSUMPTIONS: PVC PIPE, SAFETY FACTOR = 1.5, TEST PRESSURE = 150 PSI, SOIL = GM OR SM, TRENCH TYPE 3, DEPTH OF COVER = 30 INCHES FOR 20" AND SMALLER PIPE SIZE OR 36 INCHES FOR 24" AND LARGER PIPE SIZE.
 - BENDS AND VALVES: SHALL BE RESTRAINED ON EACH SIDE OF FITTING.
 - VERTICAL OFFSETS: ARE APPROX. 3 FEET COVER ON TOP AND APPROX. 8 FEET COVER ON BOTTOM. PER THE DETAILS, LU IS THE RESTRAINED LENGTH FOR THE UPPER (TOP) LEVEL. LU IS THE RESTRAINED LENGTH FOR THE LOWER (DEEPER) LEVEL. ASSUME 45 DEGREE BENDS.
 - TEES: TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 30 FEET (MIN). SEE SCHEDULE ABOVE FOR RESTRAINT LENGTH ON TEE "BRANCH" LINE.
 - HIDE TO PVC TRANSITION: THE PVC PIPE SIDE SHALL BE RESTRAINED 35 FT (MIN).
 - THE INSTALLATION OF BELL HARNESS RESTRAINTS AT PVC JOINTS (DR-18 & 25 PIPE) SHALL BE COMPLETED PER THE MANUFACTURERS RECOMMENDATION, WHICH INCLUDES NOT OVER TIGHTENING THE PARALLEL RODS/NUTS. THESE NUTS SHOULD ONLY BE SNUG TIGHT. THE HOME MARKS ON THE PIPE SHOULD ALWAYS BE VISIBLE AFTER THE RESTRAINT IS INSTALLED. OVERTIGHTENING THE JOINT MAY CAUSE A FAILURE AT THE BELL RESULTING IN A SERVICE OUTAGE.



1 MEGALUG DETAILS

C-16 SCALE: N.T.S.

2 FIRE HYDRANT ASSEMBLY

C-16 SCALE: N.T.S.