

GENERAL NOTES:

1. THE CONTRACTOR AND C/M ARE SYNONYMOUS.
2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION ACTIVITY FOR DIG PERMITS, ELECTRICAL PERMITS OR OTHER PERMITS AS APPLICABLE. CONTRACTOR IS ALSO TO COORDINATE FULLY WITH UTILITY COMPANIES ON EXACT LOCATION OF UNDERGROUND UTILITIES AND ANY UTILITY ADJUSTMENT REQUIRED. UTILITY COMPANIES SHALL BE NOTIFIED A MINIMUM OF THREE WORKING DAYS PRIOR TO EXCAVATION.
3. THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS WERE DEPICTED FROM INFORMATION PROVIDED BY CITY OF FRUITLAND PARK UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND CONFIRM THE LOCATION OF EXISTING UTILITIES TO DETERMINE IF THERE ARE ANY CONFLICTS WITH THE PROPOSED CONSTRUCTION AND TO COORDINATE WITH THE UTILITY OWNERS TO RESOLVE THESE CONFLICTS.
4. THE SUBSURFACE INFORMATION FOR THIS PROJECT WAS OBTAINED FOR DESIGN PURPOSES AND MAY NOT BE AN ADEQUATE REPRESENTATION OF ACTUAL CONDITIONS FOR PROJECT CONSTRUCTION. INFORMATION SHOWN, INCLUDING WATER LEVELS, REPRESENTS EXISTING CONDITIONS AT THE SPECIFIC BORING LOCATIONS AT THE TIME THE BORINGS WERE MADE.
5. GEOTECHNICAL REPORT INFORMATION:
 - 1) PREPARED BY: ARDAMAN & ASSOCIATES, INC.
 - 2) DATE: APRIL 6, 2021
 - 3) PROJECT #: 21-6331
 - 4) TITLE: SUBSURFACE SOIL EXPLORATION AND GEOTECHNICAL ENGINEERING EVALUATION NEW FRUITLAND PARK ELEMENTARY SCHOOL SITE URICK STREET AND OLIVE AVENUE FRUITLAND PARK, LAKE COUNTY, FLORIDA
6. ANY DIFFERING SITE CONDITIONS FROM THAT WHICH IS REPRESENTED HEREON, WHETHER ABOVE, ON OR BELOW THE SURFACE OF THE GROUND, SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER, IN WRITING, PER CONTRACT DOCUMENTS. NO CLAIM FOR EXPENSES INCURRED BY THE CONTRACTOR DUE TO SUCH DIFFERING CONDITIONS WILL BE ALLOWED IF HE OR SHE FAILS TO PROVIDE THE WRITTEN NOTIFICATION.
7. ALL MATERIALS, INSTALLATION AND TESTING SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS ALONG WITH CITY OF FRUITLAND PARK AND FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. WHERE THE SPECIFICATIONS CONFLICT, THE MORE STRINGENT SPECIFICATION SHALL APPLY.
8. THE CONTRACTOR SHALL PROVIDE ALL SHEETING, SHORING AND BRACING REQUIRED TO PROTECT ADJACENT STRUCTURES AND UTILITIES OR MINIMIZE TRENCH WIDTH AS REQUIRED. SHEETING AND SHORING SHALL BE DESIGNED BY A STATE OF FLORIDA PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR.
9. THE CONTRACTOR SHALL ENSURE THAT ALL REQUIRED CONSTRUCTION PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCING WORK.
10. ALL DEBRIS AND WASTE MATERIALS GENERATED BY CLEARING OR SUBSEQUENT CONSTRUCTION ACTIVITIES SHALL BE DISPOSED OFF-SITE IN A LEGAL MANNER AT AN APPROVED DISPOSAL FACILITY.
11. THE CONTRACTOR SHALL OBTAIN ANY AND ALL PERMITS REQUIRED FOR CLEARING, CONSTRUCTION WORK AND HAULING WASTE MATERIAL. ALL ASSOCIATED COSTS AND PERMIT FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
12. ANY PUBLIC LAND CORNER, WITHIN THE LIMITS OF CONSTRUCTION, IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING ALTERED AND HAS NOT YET BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT WITHOUT DELAY.
13. COORDINATE VALUES ARE BASED ON A LOCAL GRID ESTABLISHED BY THE SURVEY.
14. ALL REFERENCES TO PROPOSED CONSTRUCTION INDICATES CONSTRUCTION INCLUDED IN THIS CONTRACT.
15. ALL PIPING TO HAVE A MINIMUM OF THREE (3) FEET COVER UNLESS OTHERWISE NOTED ON PLANS.
16. EXISTING ROADWAY BASE MATERIALS SUCH AS SHELL OR LIMESTONE MAY BE UTILIZED IN STABILIZATION IF SUITABLE FOR MIXING.
17. THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ALL NECESSARY STRIPING, TRAFFIC CONTROL AND SAFETY DEVICES IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," LATEST EDITION, AND THE LATEST FLORIDA DEPARTMENT OF TRANSPORTATION "ROADWAY DESIGN STANDARDS."
18. MAINTENANCE OF TRAFFIC: ACCESS FOR LOCAL TRAFFIC SHALL BE MAINTAINED. IF, DURING CONSTRUCTION, ACCESS FOR LOCAL TRAFFIC IS CHANGED, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE JURISDICTIONAL AGENCY A MINIMUM OF THREE (3) WORKING DAYS IN ADVANCE. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH INDEX NO. 102-000 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS AND POLK COUNTY. CONTRACTOR IS ADVISED THAT TEMPORARY CONSTRUCTION ACCESS WILL BE PROVIDED, AND MAINTAINED, BY THE DEVELOPER, THROUGHOUT THE DURATION OF CONSTRUCTION. CONTRACTOR IS REQUIRED TO COORDINATE WITH DEVELOPER AS REQUIRED.
19. REFER TO FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS FOR THE FOLLOWING:
 - * TYPE C INLET (INDEX NO. 425-010 & 425-052)
 - * TYPE E INLET (INDEX NO. 425-010 & 425-052)
 - * TYPE G INLET (INDEX NO. 425-010 & 425-053)
 - * CURB RAMP (INDEX NO. 522-002)
 - * TYPE D CURB (INDEX NO. 520-001)
 - * TYPE F CURB & GUTTER (INDEX NO. 520-001)
 - * CURB TRANSITION (INDEX NO. 520-001)
 - * CROSSWALK, STOP BAR (INDEX NO. 711-001)
 - * PAVEMENT ARROWS (INDEX NO. 711-001)
 - * SPECIAL MARKING AREAS (INDEX NO. 711-001)
 - * CONCRETE PAVEMENT JOINTS (INDEX NO. 350-001)
 - * CONCRETE SIDEWALK (INDEX NO. 522-001)
 - * SIGHT DISTANCE (FDW 212)
 - * MAINTENANCE OF TRAFFIC (INDEX NO. 102-000)
20. ALL STORM, SANITARY AND WATER INSTALLATION NOT LOCATED ON PUBLIC R.O.W. OR DEEDED EASEMENTS SHALL COMPLY WITH FLORIDA BUILDING CODES-PLUMBING.
21. VIBRATORY COMPACTION IS NOT PERMITTED.

GRADING AND DRAINAGE NOTES:

1. ALL GRADING AND SITE PREPARATION SHALL CONFORM TO SPECIFICATIONS CONTAINED IN THE PROJECT GEOTECHNICAL REPORT AND SPECIFICATION SECTIONS 31 AND 33, UNLESS INDICATED OTHERWISE. MOST STRINGENT REQUIREMENT SHALL APPLY.
2. CONTRACTOR SHALL VERIFY EXISTING TOPOGRAPHIC DATA, LOCATION OF EXISTING UTILITIES AND ALL OTHER SITE CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.
3. ALL CONSTRUCTION WITHIN STREET RIGHT-OF-WAY SHALL CONFORM TO CITY OF FRUITLAND PARK CODE AND REQUIREMENTS.
4. ALL GRADES SHOWN, WITH THE EXCEPTION OF THOSE INDICATED ON THE SURVEY BASE DRAWING, ARE FINISHED GRADES UNLESS INDICATED OTHERWISE.
5. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE GRADED TO ORIGINAL GROUND LINES AND FINISHED WITH 50D PER PROJECT SPECIFICATIONS UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL MAINTAIN ALL AREAS UNTIL FINAL ACCEPTANCE.
6. STORMWATER COLLECTION SYSTEM TO BE PRIVATELY OWNED AND MAINTAINED.
7. CONTRACTOR SHALL GRADE FROM GRADE POINT TO GRADE POINT IN A UNIFORM MANNER UNLESS OTHERWISE INDICATED ON THE PLANS. ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE.
8. CONTRACTOR IS RESPONSIBLE TO DEVELOP, CONSTRUCT AND MAINTAIN ANY TEMPORARY DEWATERING REQUIRED FOR CONSTRUCTION OF PROJECT IMPROVEMENTS. NO OFFSITE DISCHARGE OF DEWATERING IS ALLOWED, UNLESS ALLOWED BY SJRWMD AND FDEP. ANY TEMPORARY IMPROVEMENTS SHALL BE REMOVED AFTER USE AND THE AREA RESTORED TO THE CONDITION SHOWN ON THE PLANS.

EROSION CONTROL NOTES

1. ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO STANDARDS OF THE CITY OF FRUITLAND PARK, AND ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.
2. EROSION AND SEDIMENT CONTROL BEST PRACTICES ARE DICTATED BY FDEP NPDES CONSTRUCTION GENERIC PERMIT, 62-621.300(4)(a) FAC. BEST MANAGEMENT PRACTICES (BMP'S) USED ON SITE MUST MEET THE MINIMUM SPECIFICATIONS IN THE 2013 STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL. (REFER TO PART 5.1 OF THE NPDES CONSTRUCTION GENERIC PERMIT.)
3. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP, IN CONSTRUCTION. SEDIMENT CONTROL PRACTICES WILL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTATION OF SILT OFF THE SITE.
4. SOIL MATERIALS FROM WORK ON THIS PROJECT SHALL BE CONTAINED AND NOT ALLOWED TO COLLECT ON ANY OFF-PERIMETER AREAS OR IN WATERWAYS. THESE INCLUDE BOTH NATURAL AND MAN-MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES AND PONDS.
5. DAILY INSPECTIONS SHALL BE MADE BY THE CONTRACTOR TO DETERMINE THE EFFECTIVENESS OF EROSION/SEDIMENT CONTROL EFFORTS. ANY NECESSARY REMEDIES SHALL BE PERFORMED WITHOUT DELAY.
6. ALL MUD, DIRT, OR OTHER MATERIALS TRACKED OR SPILLED ONTO EXISTING PUBLIC OR PRIVATE ROADS AND FACILITIES FROM THIS SITE, DUE TO CONSTRUCTION, SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR.
7. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN A STABILIZED CONSTRUCTION ACCESS/ SOIL TRACKING PREVENTION DEVICE (STPD) TO ASSIST WITH THE REMOVAL OF SOIL MATERIAL CAPTURED ON VEHICLE TIRES ENTERING AND LEAVING THE CONSTRUCTION SITE. THE SOIL TRACKING PREVENTION DEVICE SHALL MEET THE MINIMUM SPECIFICATIONS OF THE 2013 STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWERS MANUAL AND FDOT INDEX 106.
8. ALL PERMANENT EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS AND ANY DISTURBED LAND AREAS SHALL BE COMPLETED WITHIN 7 CALENDAR DAYS AFTER FINAL GRADING.
9. ALL TEMPORARY PROTECTION SHALL BE MAINTAINED UNTIL PERMANENT MEASURES ARE IN PLACE AND ESTABLISHED. TIME FRAMES FOR PERMANENT AND TEMPORARY STABILIZATION MUST CONFORM WITH REQUIREMENTS SET FORTH IN THE NPDES CONSTRUCTION GENERIC PERMIT SECTION 5.4. STABILIZATION MEASURES MUST BE INITIATED WITHIN 7 CALENDAR DAYS WHERE ACTIVITIES HAVE EITHER PERMANENTLY OR TEMPORARILY CEASED.
10. THE EROSION CONTROL MEASURES ARE INTENDED AS MINIMUM STANDARDS. ANY EROSION CONTROL REQUIRED BEYOND THAT SPECIFIED SHALL BE CONSIDERED AS INCLUDED WITHIN THIS CONTRACT.

VERTICAL DATUM NOTE:

1. ALL ELEVATIONS SHOWN WITHIN THIS PLAN SET ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF NAVD88.
2. BASED ON THE VERTCON SOFTWARE, THE VERTICAL DATUM CONVERSION IS -0.886' FOR THIS PROJECT SITE.
3. DATUM CONVERSION EXAMPLE: 100.00' NAVD 88 - -0.886' = 100.886' NGVD 29.
4. CONTRACTOR SHALL CONFIRM THAT ALL WORK BY THE DEVELOPER IN OFF-SITE PERIMETER AREA ARE COORDINATED AND ARE BEING CONSTRUCTED ON THE SAME DATUM.

NPDES PERMIT:

1. CONTRACTOR SHALL PREPARE AND SUBMIT TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, THE "NOTICE OF INTENT" AND "NOTICE OF TERMINATION" FOR "STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES," PER FLORIDA ADMINISTRATIVE CODE 62-621.300(4). IN ACCORDANCE WITH FDEP REQUIREMENTS, THE CONTRACTOR SHALL PREPARE AND SUBMIT WITH THE APPLICATION, AN APPROVED "STORMWATER POLLUTION PREVENTION PLAN" AND PERFORM/CERTIFY ALL INSPECTIONS AND RETAIN ALL INSPECTION REPORTS AND DOCUMENTATION ON FILE AS REQUIRED FOR DEP REVIEW. ALL FEES SHALL BE PAID BY THE CONTRACTOR, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY PENALTIES OR FINES DEP MAY LEVY FOR FAILURE TO COMPLY WITH THE PERMITTING REQUIREMENTS. CONTRACTOR SHALL PROVIDE A COPY OF THE NOI AND THE NOT TO THE MS4 OPERATOR.

DEWATERING NOTES:

1. IF ONSITE DEWATERING MAY OCCUR DURING CONSTRUCTION, THE CONTRACTOR SHALL REFER TO THE DEWATERING REQUIREMENTS IN 62-621.300(4)(a) CONSTRUCTION GENERIC PERMIT OR 62-621.300(2)(a) DEWATERING GENERIC PERMIT AS APPLICABLE. APPROPRIATE BEST MANAGEMENT PRACTICES MUST BE IMPLEMENTED TO ENSURE THAT DISCHARGES DO NOT EXCEED SURFACE WATER QUALITY STANDARDS PER THE CONSTRUCTION GENERIC PERMIT. IF DEWATERING OFFSITE OR INTO THE COUNTY MS4, TURBIDITY MUST BE MONITORED TO ENSURE THAT DISCHARGES DO NOT EXCEED 29 NTU OVER BACKGROUND PER 62-302.530 FAC. THE DISCHARGE OF GROUNDWATER DURING DEWATERING ACTIVITIES TO COUNTY RIGHT-OF-WAY REQUIRES A RIGHT-OF-WAY UTILIZATION PERMIT.

GEOMETRY NOTES:

1. THREE (3) FOOT CURB TRANSITIONS SHALL BE PROVIDED AT ALL CURB TERMINATIONS AND DROP CURB INTERFACES.
2. DETECTABLE SURFACE ON CURB RAMP WALKING SURFACE (REFER TO FDOT INDEX 522-002).
3. POINTS SHOWN ON THE PLANS HAVE BEEN SET AT EDGE OF PAVEMENT PC, PT, CURB MIDPOINT AND INTERSECTION LOCATIONS. POINTS SHOWN ON UTILITY STRUCTURES ARE AT THE CENTER OF THE STRUCTURE.

STORM LEGEND:

- 12.00± M.E.G. MATCH EXISTING GRADE
- 12.00 PROPOSED SPOT GRADE
- x 11.00 EXISTING SPOT GRADE
- PROPOSED DRAINAGE FLOW
- MANHOLE
- INLET
- NYLO/LAST DRAIN
- PVC
- HDPE
- RCP
- CLEANOUT

WATER / SEWER LEGEND:

- WATER LINE
- SANITARY LINE
- FIRE LINE
- FDC FIRE LINE
- FIRE HYDRANT ASSEMBLY
- FIRE DEPARTMENT CONNECTION
- GATE VALVE
- SANITARY MANHOLE
- SANITARY CLEANOUT

UTILITY NOTES:

1. ALL WATER MAIN MATERIALS AND APPURTENANCES SHALL CONFORM TO AND SHALL BE INSTALLED, TESTED AND CLEARED FOR SERVICE IN ACCORDANCE WITH THE STANDARDS OF CITY OF FRUITLAND PARK AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.
2. HORIZONTAL SEPARATION BETWEEN WATER MAINS AND SANITARY OR STORM SEWER, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.
 - A. WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE (3) FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER, REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
 - B. WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN (10) FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.
 - C. WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN (10) FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE (3) FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST TWELVE (12) INCHES ABOVE THE TOP OF THE SEWER.
 - D. WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN (10) FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM.
3. VERTICAL SEPARATION BETWEEN WATER MAINS AND SANITARY OR STORM SEWER, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED WATER PIPELINES.
 - A. WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST TWELVE (12) INCHES ABOVE THE OUTSIDE OF THE OTHER PIPELINE.
 - B. WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST TWELVE (12) INCHES ABOVE THE OUTSIDE OF THE OTHER PIPELINE.
 - C. AT THE UTILITY CROSSINGS DESCRIBED IN PARAGRAPHS (A) AND (B) ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE (3) FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER AND AT LEAST SIX (6) FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610 F.A.C.
4. ALL UTILITIES LOCATED OUTSIDE PUBLIC RIGHT-OF-WAYS AND PUBLIC EASEMENTS SHALL BE PRIVATELY OWNED AND MAINTAINED.
5. BACTERIOLOGICAL SAMPLE POINTS SHALL BE AS DESCRIBED IN THE FDEP PERMIT CONDITIONS.
6. A MINIMUM COVER OF THREE (3) FEET SHALL BE PROVIDED OVER ALL PROPOSED UTILITIES.
7. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF CONNECTION POINTS TO WATER AND WASTEWATER WITH THE DEVELOPER. POINTS SHOWN ARE BASED ON LATEST AVAILABLE DESIGN INFORMATION.
8. CONTRACTOR TO PROVIDE TEMPORARY SUPPORT, ADEQUATE PROTECTION, AND MAINTENANCE OF ALL UNDERGROUND AND SURFACE UTILITY STRUCTURES DURING CONSTRUCTION.

SCHENKELSHULTZ
ARCHITECTURE

200 E. Robinson Street
Suite 300
Orlando, FL 32801
voice 407-872-3322
fax 407-872-3303

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REVISIONS		
MARK	DESCRIPTION	DATE

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 - B. WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN (10) FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.
 - C. WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN (10) FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE (3) FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST TWELVE (12) INCHES ABOVE THE TOP OF THE SEWER.
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**FRUITLAND PARK
ELEMENTARY SCHOOL
REPLACEMENT**

Fruitland Park, FL



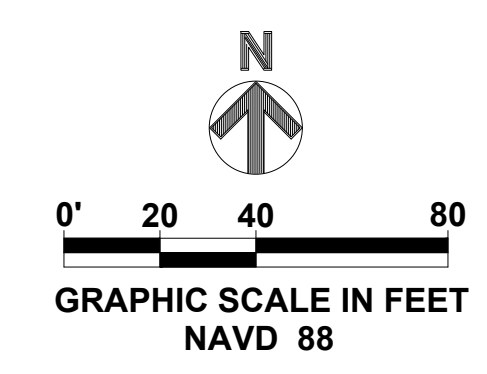
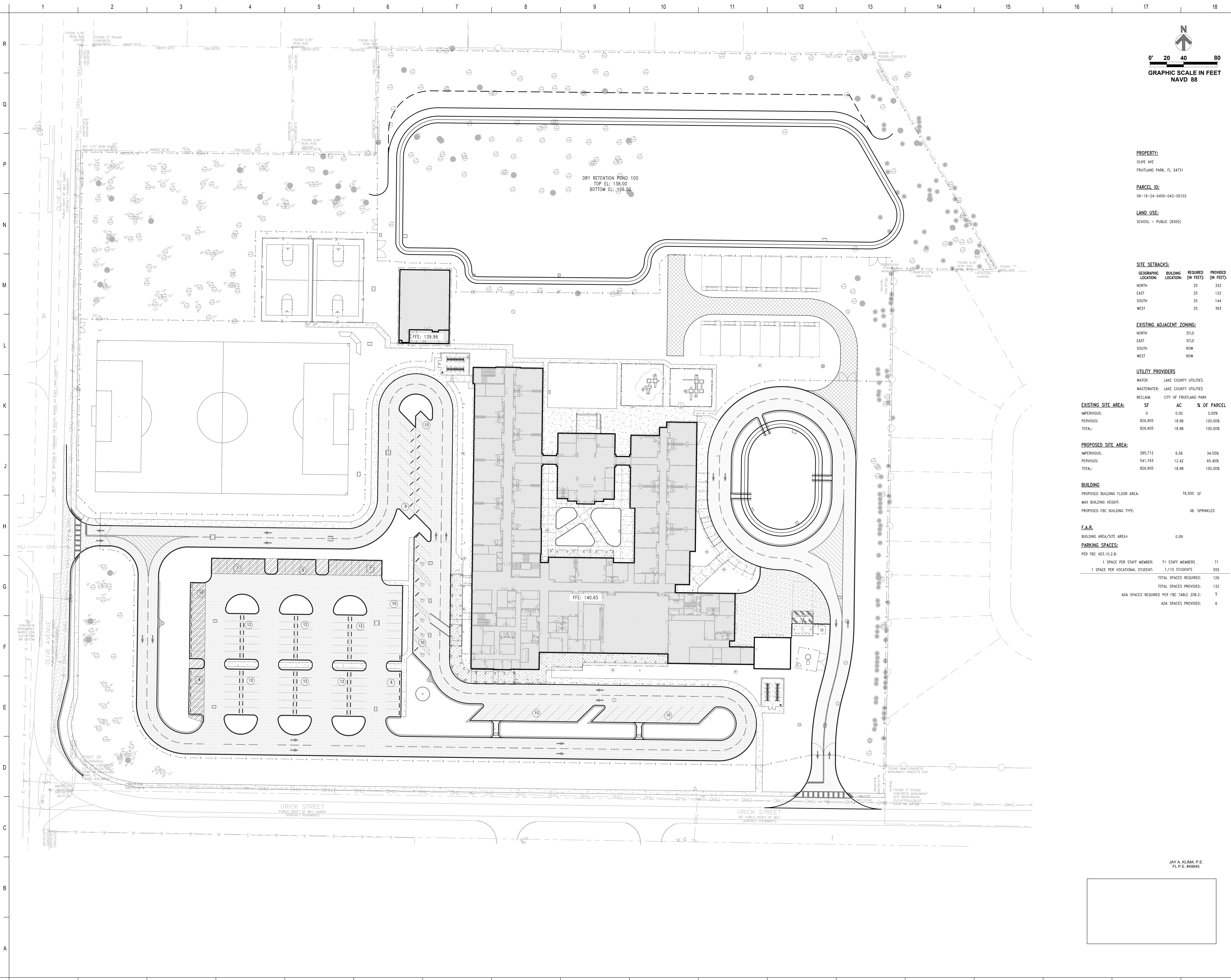
LAKE COUNTY SCHOOLS
201 WEST BURLEIGH BLVD, TAVARES, FL 32778

ISSUE DATE: 8/16/2023
COMM. NO.: 2023100
DRAWN BY: JDO CHECKED BY: JAK

GENERAL NOTES

C-001

NOT RELEASED FOR CONSTRUCTION



PROPERTY:
 OLIVE AVE
 FRUITLAND PARK, FL 34751

PARCEL ID:
 09-19-24-040-043-00102

LAND USE:
 SCHOOL - PUBLIC (8300)

SITE SETBACKS:

GEOGRAPHIC LOCATION:	BUILDING LOCATION:	REQUIRED (IN FEET):	PROVIDED (IN FEET):
NORTH		25	332
EAST		25	122
SOUTH		25	144
WEST		25	393

EXISTING ADJACENT ZONING:

NORTH	SFLD
EAST	SFLD
SOUTH	ROW
WEST	ROW

UTILITY PROVIDERS

WATER: LAKE COUNTY UTILITIES
 WASTEWATER: LAKE COUNTY UTILITIES
 RECLAIM: CITY OF FRUITLAND PARK

EXISTING SITE AREA:

SF	AC	% OF PARCEL
IMPERVIOUS:	0.00	0.00%
PERVIOUS:	826,905	18.98
TOTAL:	826,905	18.98

PROPOSED SITE AREA:

SF	AC	% OF PARCEL
IMPERVIOUS:	285,712	6.56
PERVIOUS:	541,193	12.42
TOTAL:	826,905	18.98

BUILDING

PROPOSED BUILDING FLOOR AREA: 76,500 SF
 MAX BUILDING HEIGHT:
 PROPOSED FBC BUILDING TYPE: 1B SPRINKLED

F.A.R.

BUILDING AREA/SITE AREA: 0.09

PARKING SPACES:

PER FBC 453.10.2.8:

1 SPACE PER STAFF MEMBER:	71 STAFF MEMBERS	71
1 SPACE PER VOCATIONAL STUDENT:	1,110 STUDENTS	555
TOTAL SPACES REQUIRED:		126
TOTAL SPACES PROVIDED:		132
ADA SPACES REQUIRED PER FBC TABLE 208.2:		5
ADA SPACES PROVIDED:		6

SCHENKELSHULTZ
 ARCHITECTURE

200 E. Robinson Street
 Suite 300
 Orlando, FL 32801
 voice 407-872-3322
 fax 407-872-3303

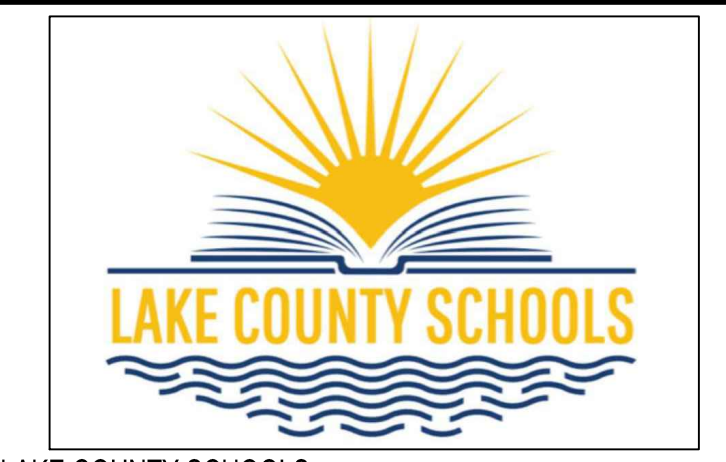
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REVISIONS

MARK	DESCRIPTION	DATE
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**FRUITLAND PARK
 ELEMENTARY SCHOOL
 REPLACEMENT**

Fruitland Park, FL



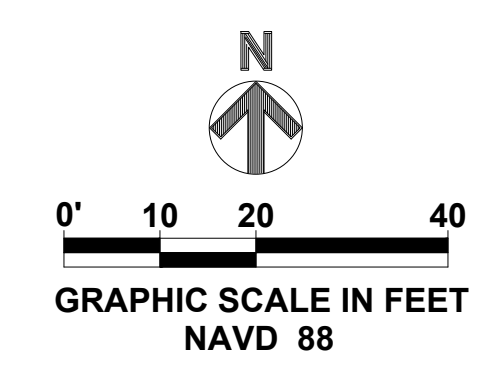
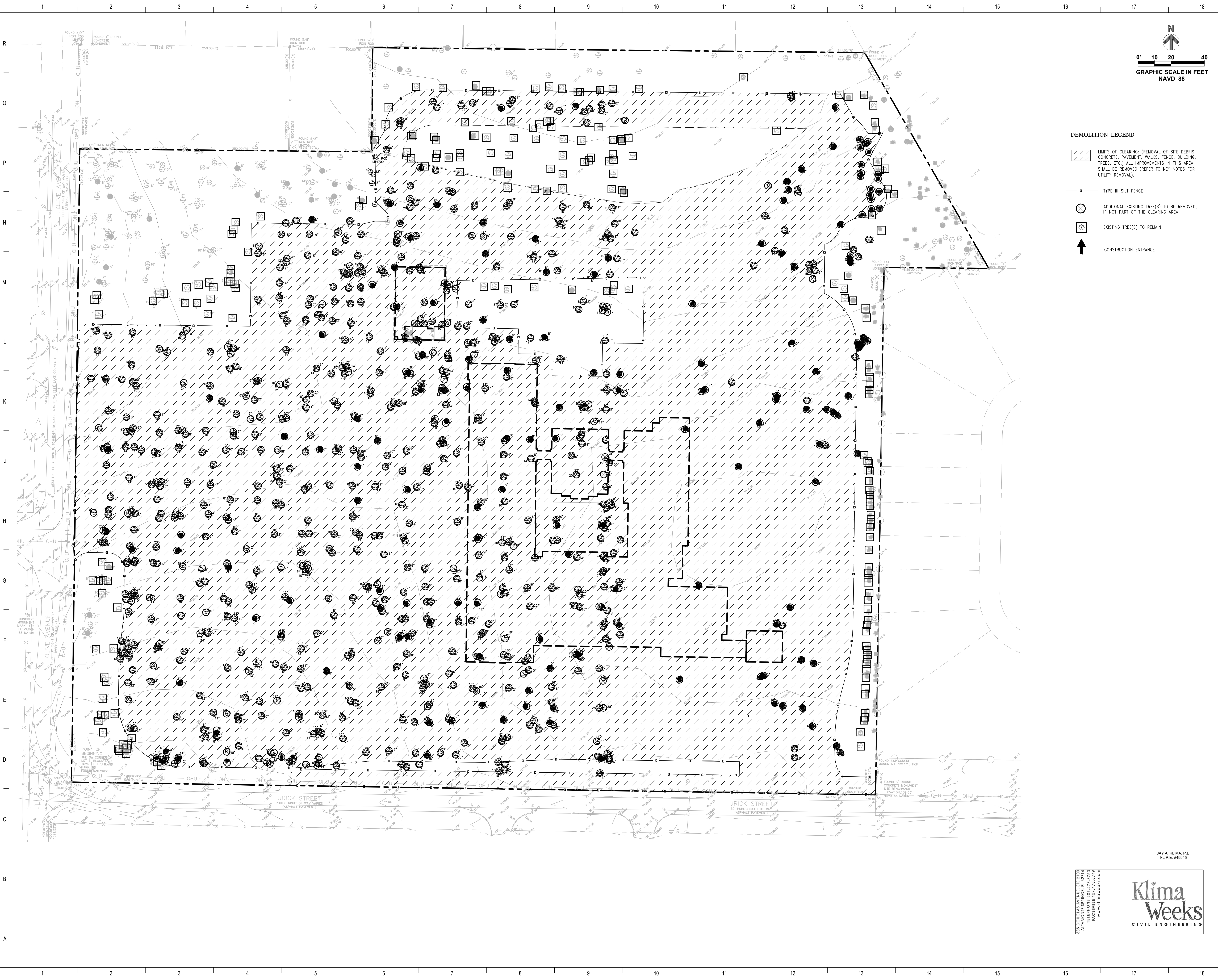
LAKE COUNTY SCHOOLS
 201 WEST BURLEIGH BLVD, TAVARES, FL 32778

ISSUE DATE: 8/16/2023
 COMM. NO.: 2023100
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SITE PLAN

C-100

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DEMOLITION LEGEND

- LIMITS OF CLEARING: (REMOVAL OF SITE DEBRIS, CONCRETE, PAVEMENT, WALKS, FENCE, BUILDING, TREES, ETC.) ALL IMPROVEMENTS IN THIS AREA SHALL BE REMOVED (REFER TO KEY NOTES FOR UTILITY REMOVAL).
- TYPE III SILT FENCE
- ADDITIONAL EXISTING TREE(S) TO BE REMOVED, IF NOT PART OF THE CLEARING AREA.
- EXISTING TREE(S) TO REMAIN
- CONSTRUCTION ENTRANCE

SCHENKELSHULTZ
 ARCHITECTURE

200 E. Robinson Street
 Suite 300
 Orlando, FL 32801
 voice 407-872-3322
 fax 407-872-3303

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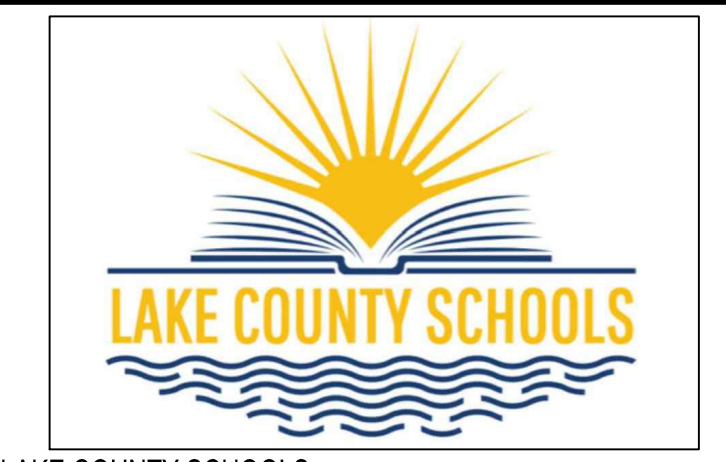
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**FRUITLAND PARK
 ELEMENTARY SCHOOL
 REPLACEMENT**

Fruitland Park, FL



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 201 WEST BURLINGHAM BLVD, TAVARES, FL 32778

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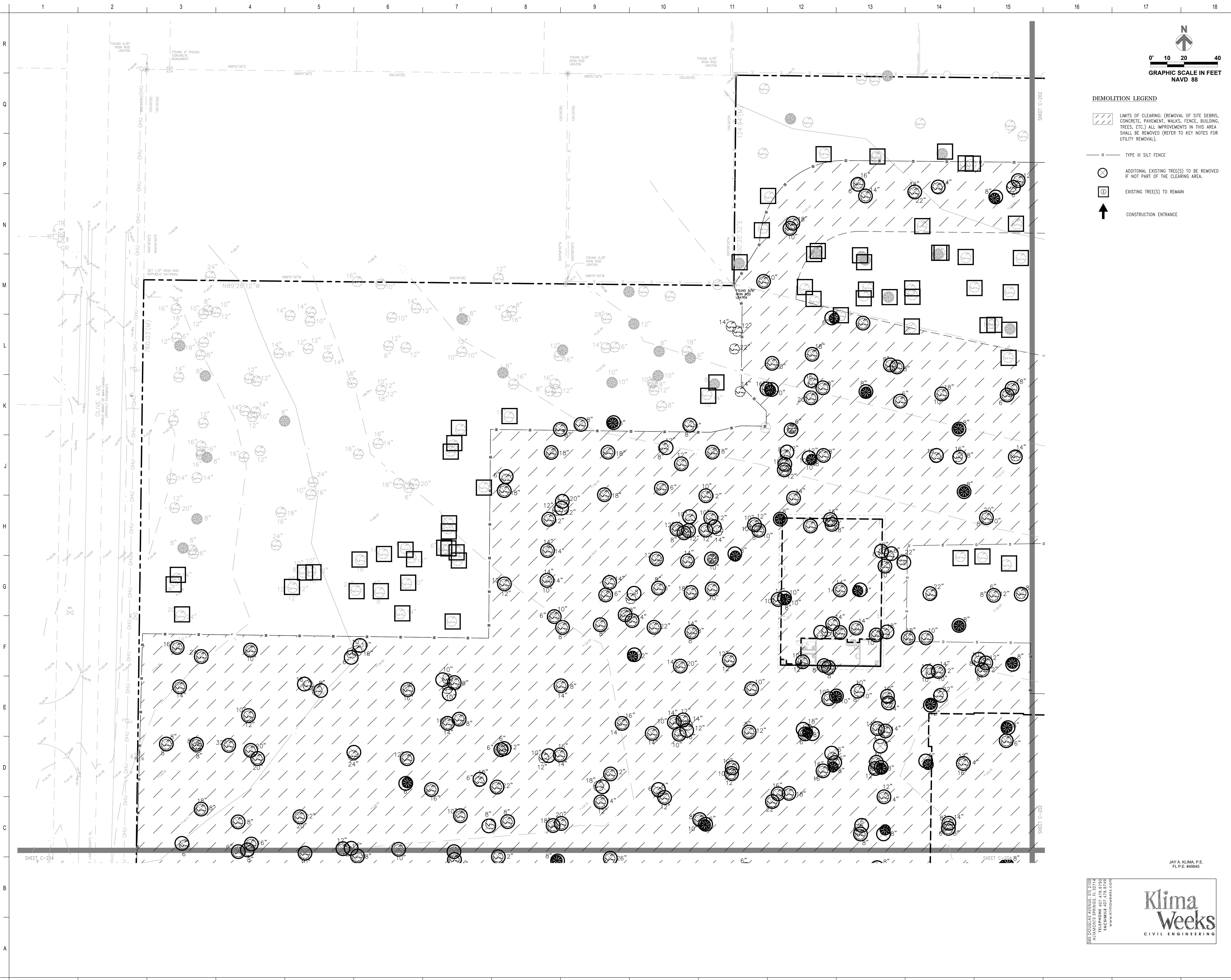
DEMOLITION & EROSION

C-200

1601 S. WINDY LAKE AVENUE, SUITE 300
 ALAMONTI SPRINGS, FL 32714
 TELEPHONE 407.478.8350
 WWW.HUTCHINGSUSA.COM

Klima Weeks
 CIVIL ENGINEERING

JAY A. KLIMA, P.E.
 FL P.E. #49945



SCHENKELSHULTZ
 ARCHITECTURE

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 Suite 300
 Orlando, FL 32801
 voice 407-872-3322
 fax 407-872-3303

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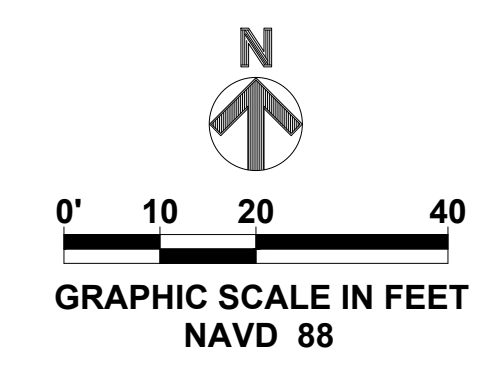
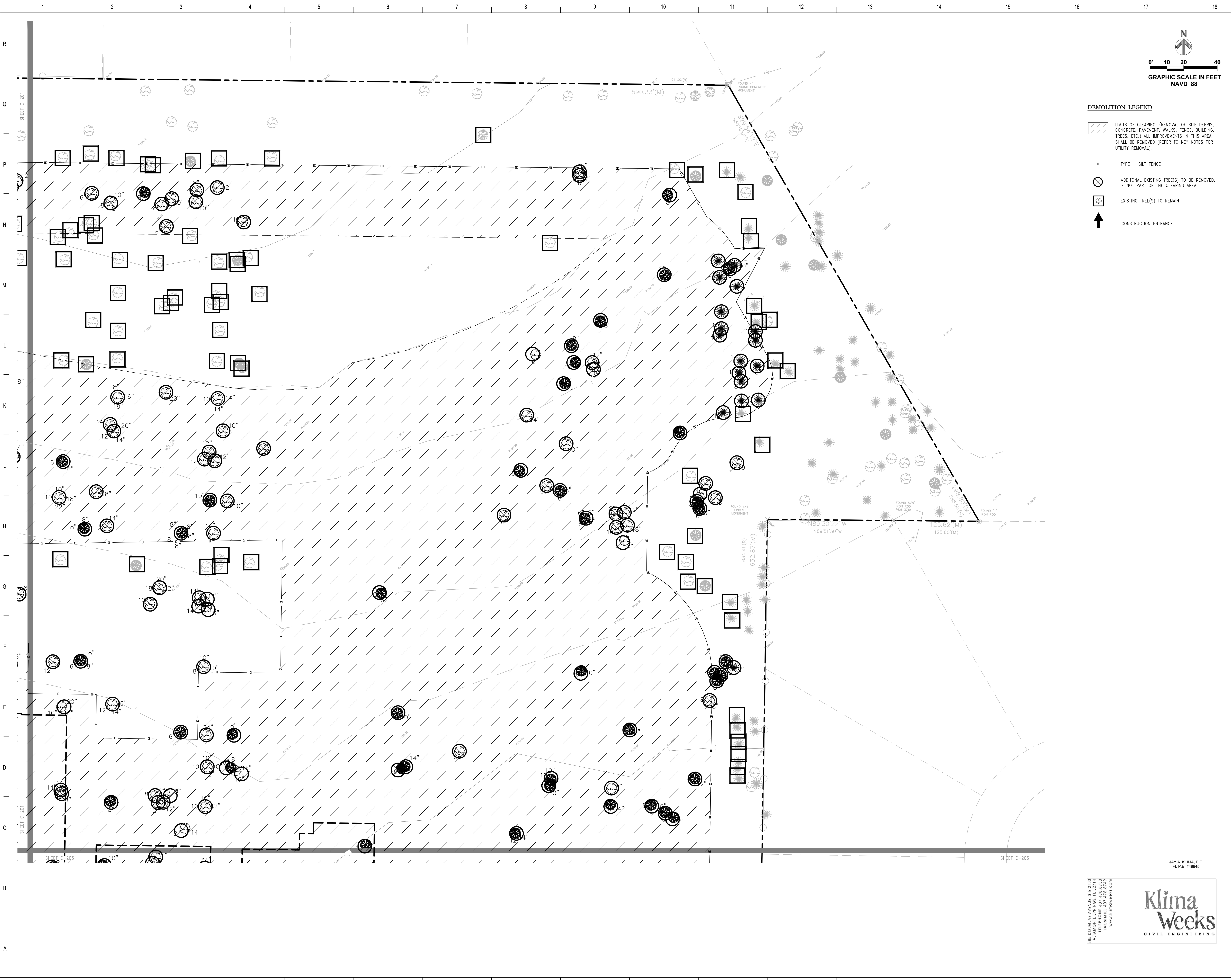
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1500 S. WINDY AVENUE, STE. 110
 ALAQUATE SPRINGS, FL 32714
 TELEPHONE 407.478.8150
 FAX 407.478.8151
 WWW.HITROWEBS.COM

**Klima
 Weeks**
 CIVIL ENGINEERING

JAY A. KLIMA, P.E.
 FL P.E. #49646

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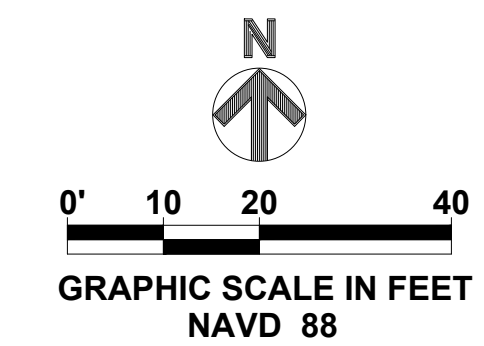
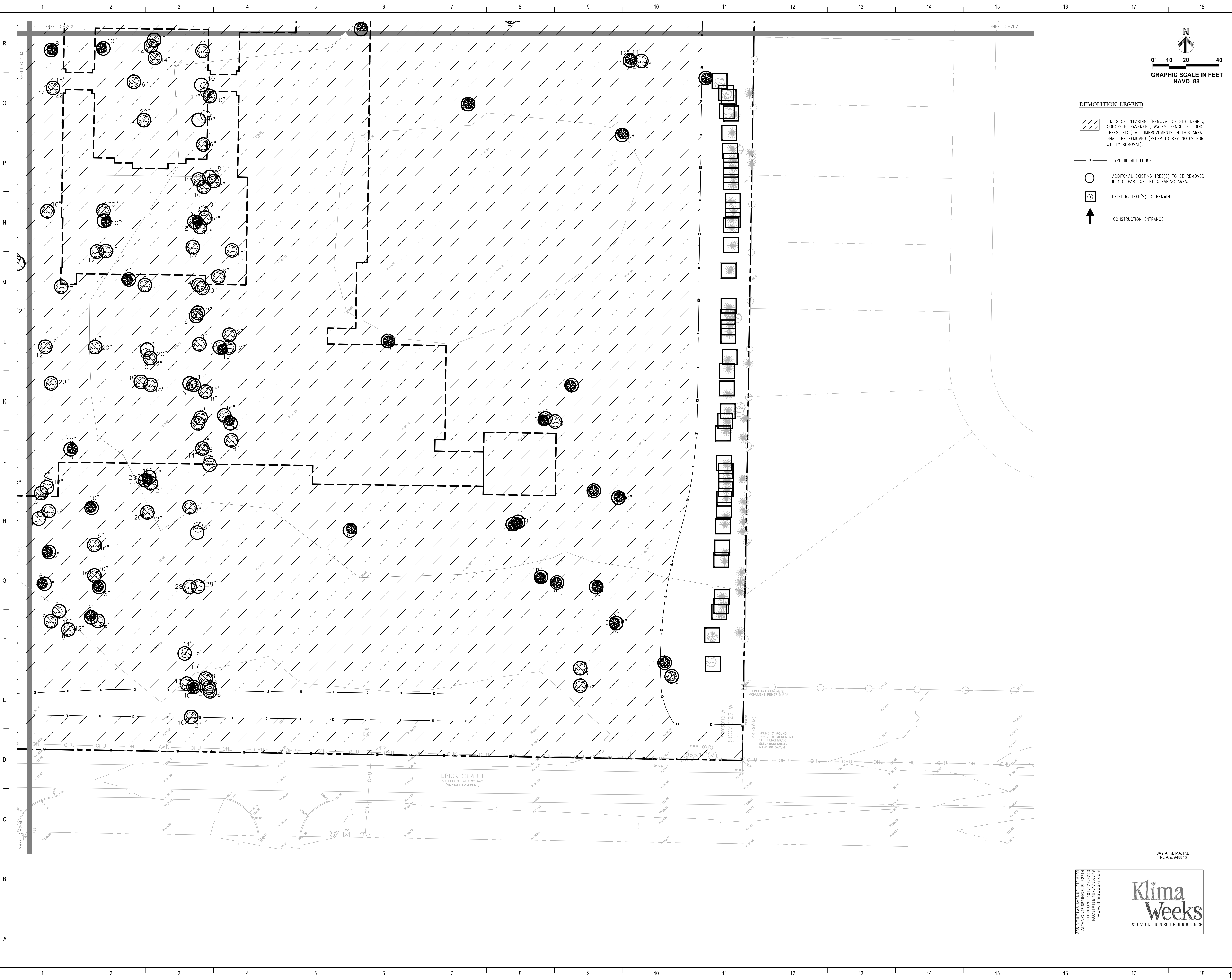
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DEMOLITION & EROSION

C-202



JAY A. KLIMA, P.E.
 FL P.E. #49945



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 Orlando, FL 32801
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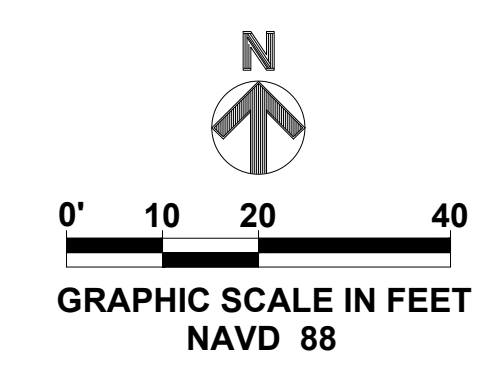
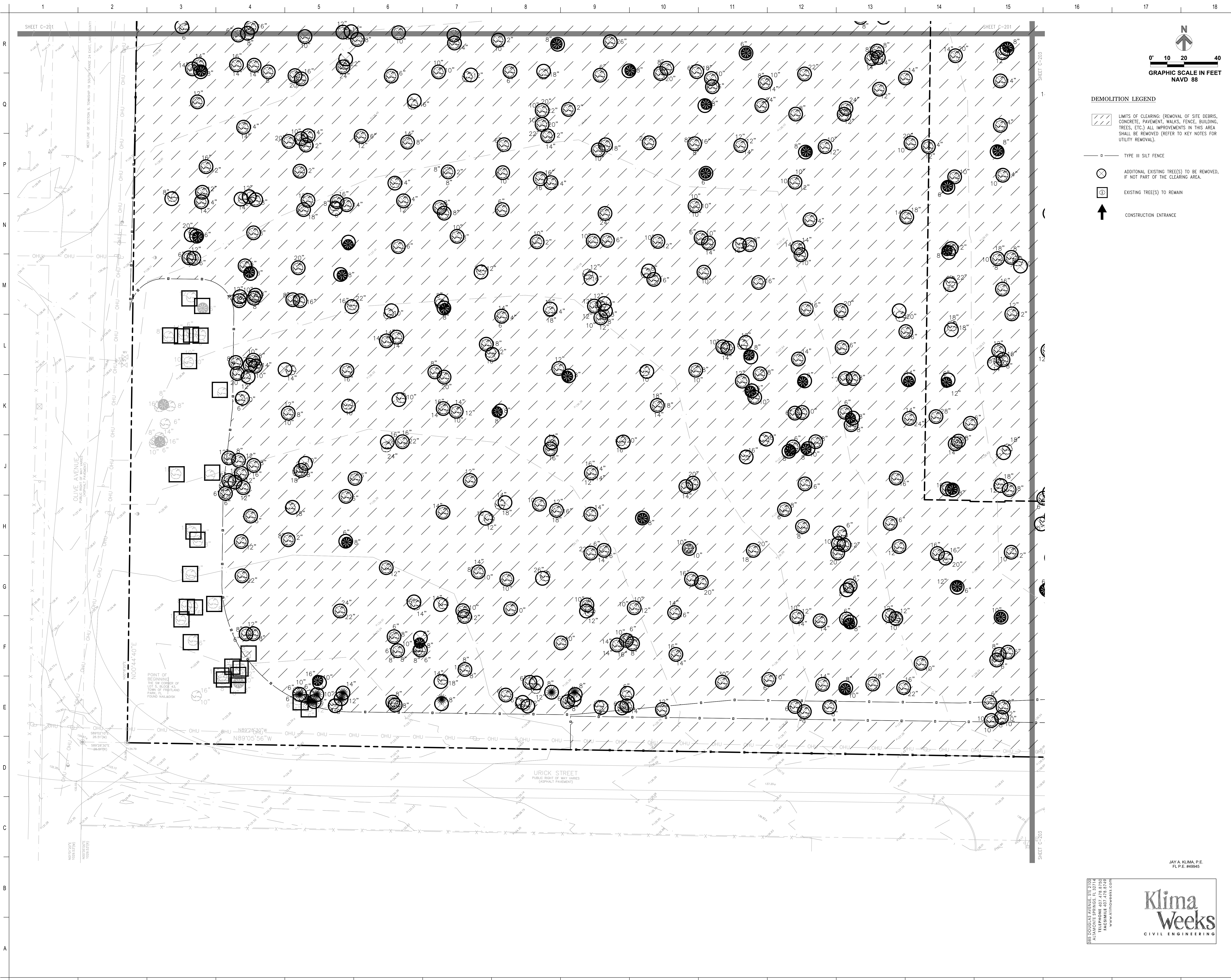
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JAY A. KLIMA, P.E.
 FL P.E. #49945

3000 S. WINDY AVENUE, STE. 100
 ALAQUATE SPRINGS, FL 32714
 TELEPHONE 407.478.8150
 FAX 407.478.8151
 WWW.KLIMAWEEKS.COM



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DEMOLITION & EROSION

C-204

100% CONSTRUCTION DOCUMENTS - EARLY PACKAGE

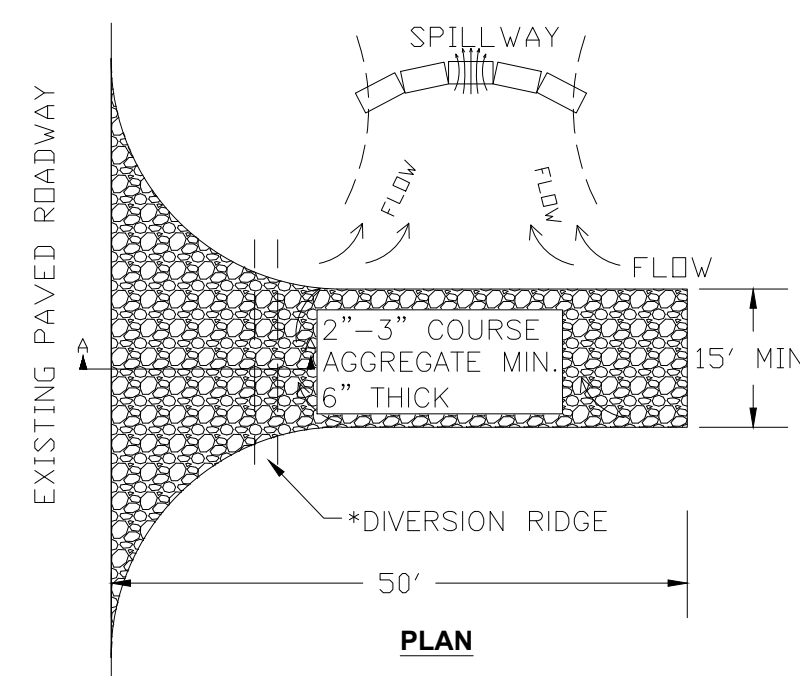
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Klayton Klima, P.E.
 1000 S. US Highway 1
 Altamonte Springs, FL 32714
 Telephone 407.478.8350
 Fax 407.478.8351
 www.klimaweeks.com

JAY A. KLIMA, P.E.
 FL P.E. #49946

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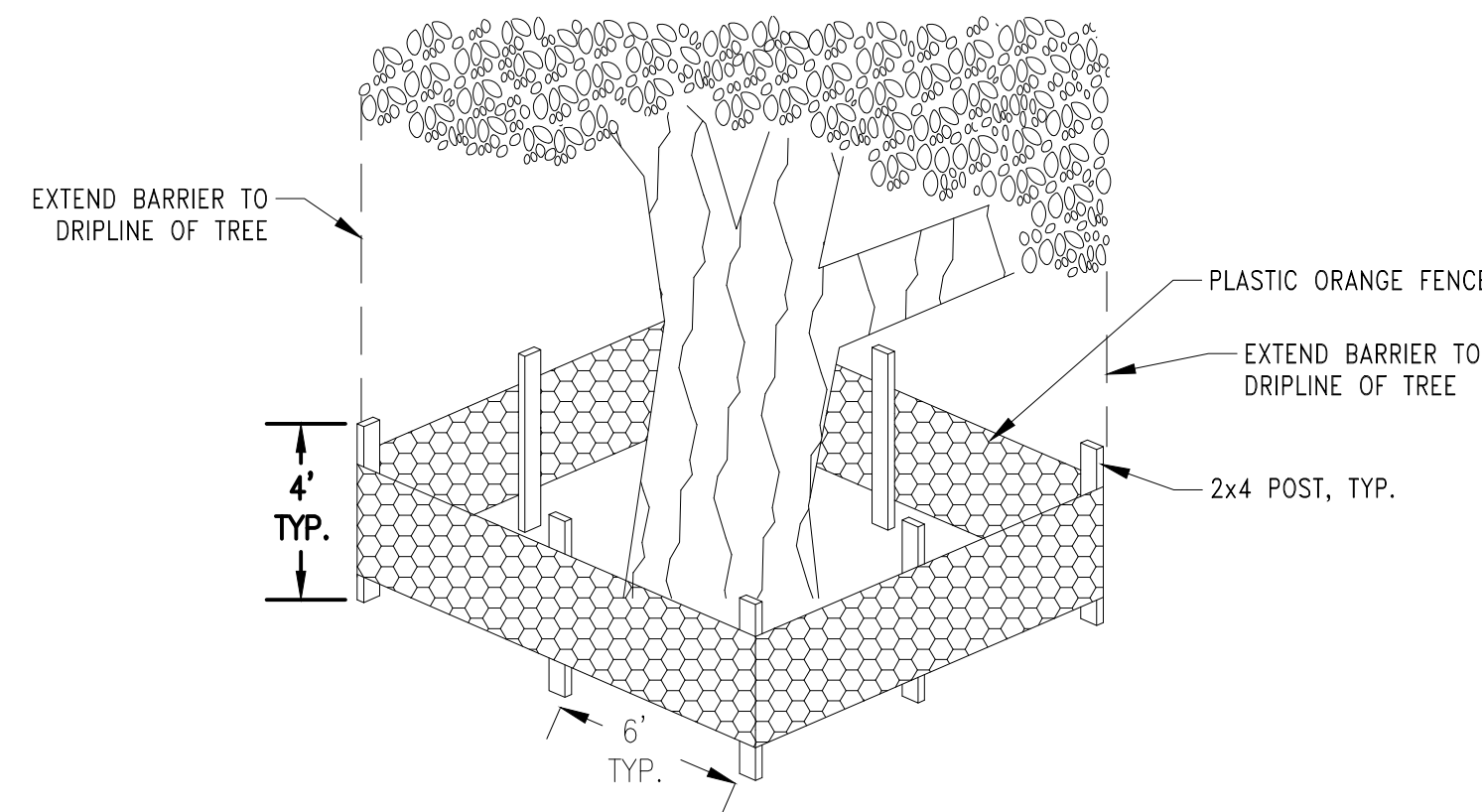
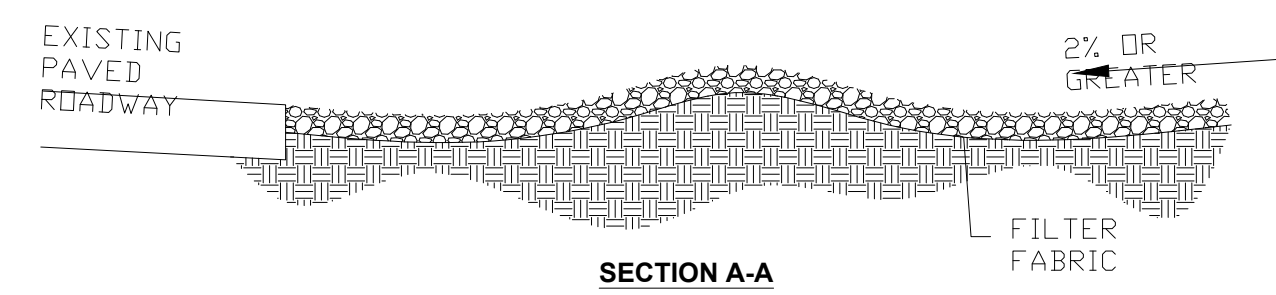
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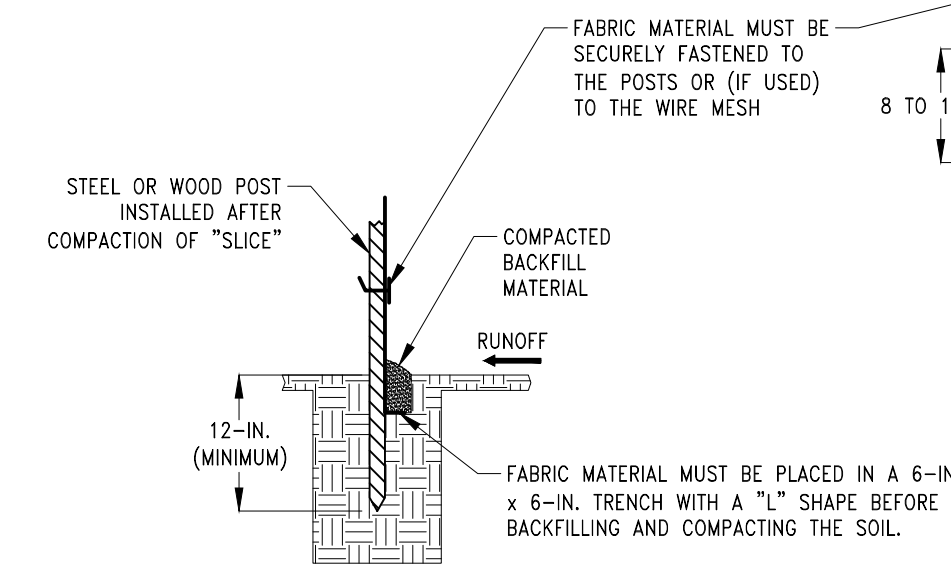
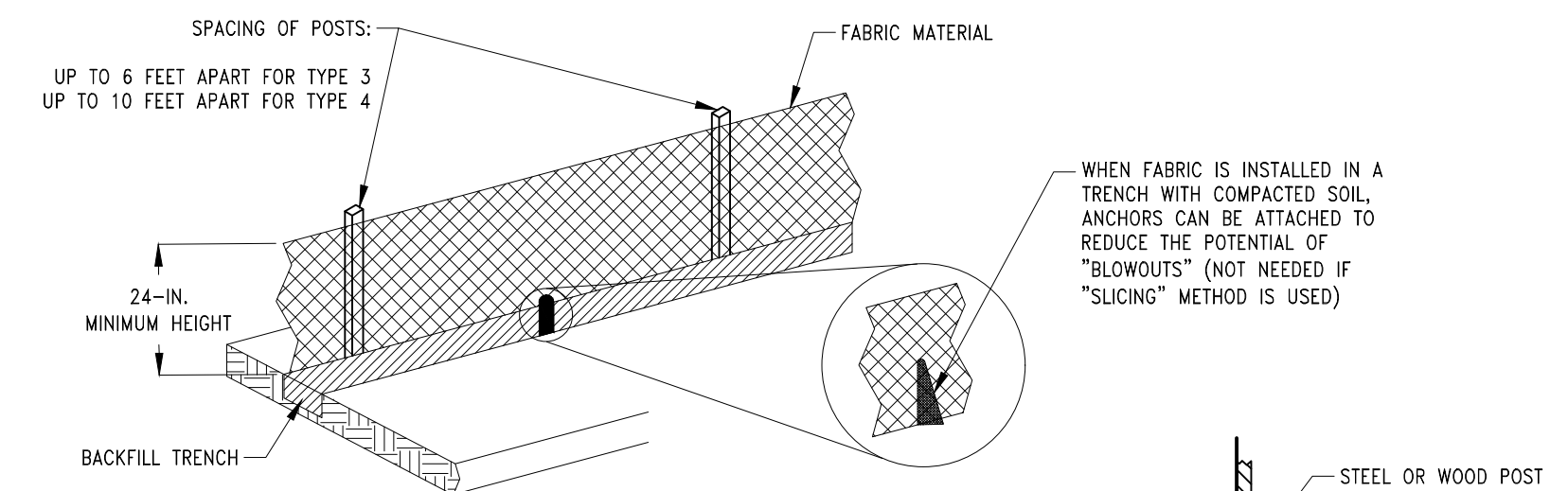
- NOTES:**
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANTOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
 3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
 4. TEMPORARY CONSTRUCTION ENTRANCE SHALL BE IN ACCORDANCE WITH FDOT INDEX NO. 106.

*DIVERSION RIDGE REQUIRED WHERE GRADE EXCEEDS 2%.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

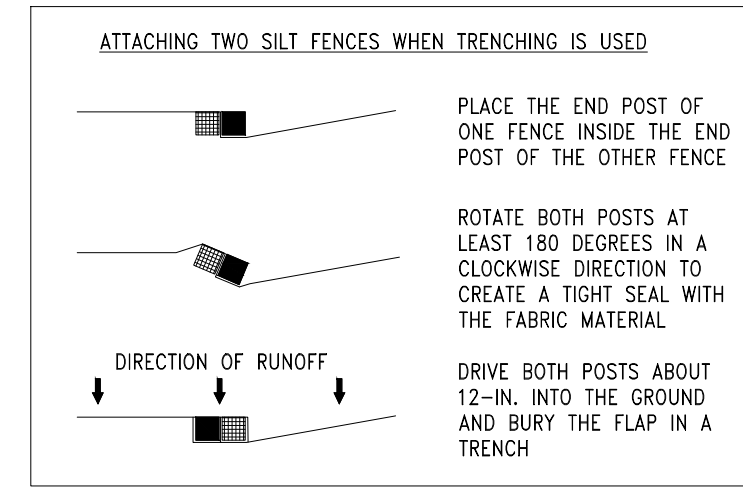


NOTE: FENCING TO FOLLOW DRIPLINE.
TREE BARRIER DETAIL
N.T.S.

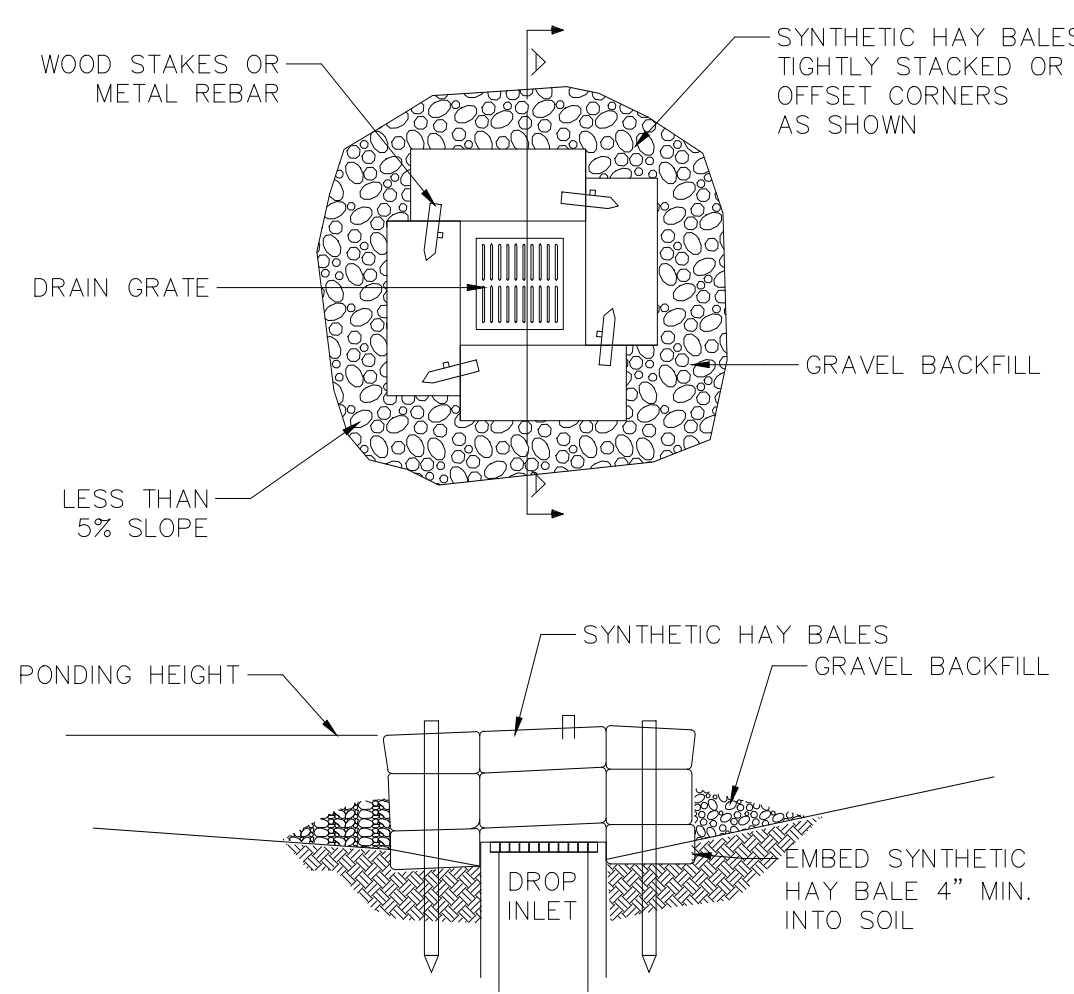


TRENCHING METHOD

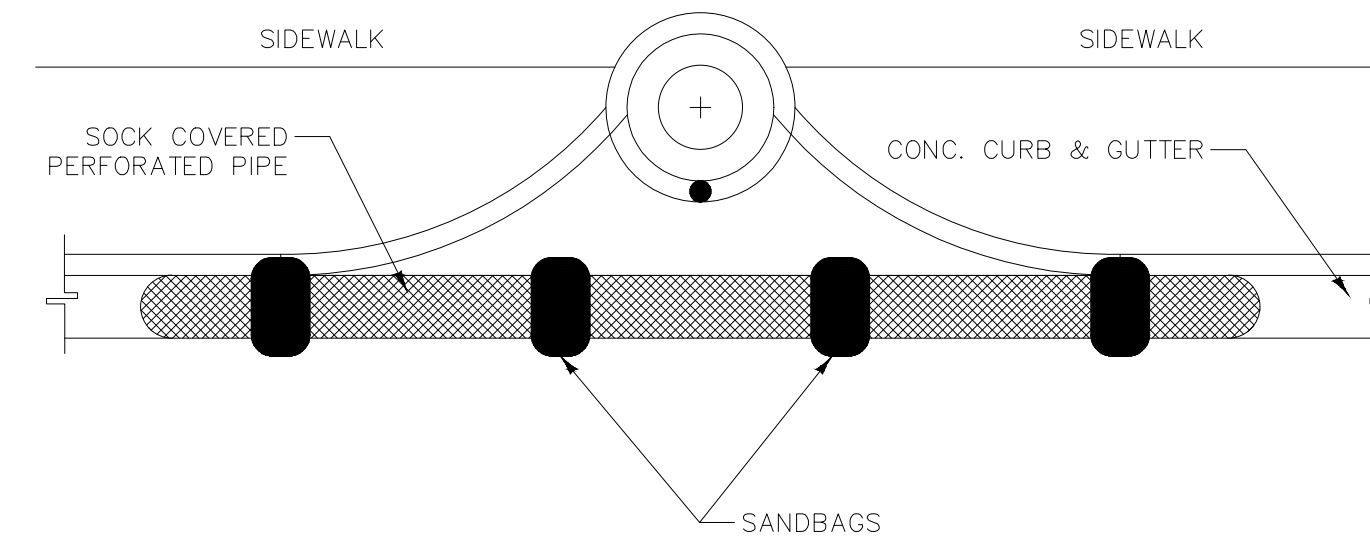
SLICING METHOD



SILT FENCE BARRIER INSTALLATION



- NOTES:**
1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%)
 2. EMBED THE BALES 4" INTO THE SOIL AND OFFSET CORNERS OR PLACE BALES WITH ENDS TIGHTLY ABUTTING. GRAVEL BACKFILL WILL PREVENT EROSION OR FLOW AROUND THE BALES.
 3. THE TOP OF THE STRUCTURE (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWN SLOPE TO PREVENT RUNOFF FROM BY-PASSING THE INLET. EXCAVATION OF A BASIN ADJACENT TO THE DROP INLET OR A TEMPORARY DIKE ON THE DOWN SLOPE OF THE STRUCTURE MAY BE NECESSARY.



- NOTES:**
1. PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEGMENTS, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
 2. SANDBAGS OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC ARE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY.
 3. LEAVE A ONE SANDBAG GAP IN THE TOP ROW TO PROVIDE A SPILLWAY FOR OVERFLOW.
 4. INSPECT BARRIERS AND REMOVED SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.
 5. AT THE END OF EACH WORKDAY, SWEEP OR SCRAPE UP SOIL TRACKED ONTO THE STREET.

INLET PROTECTION DETAIL
N.T.S.

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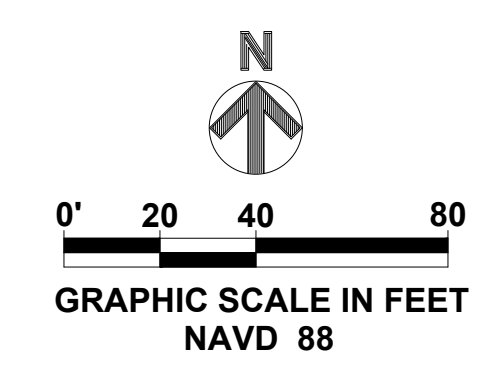
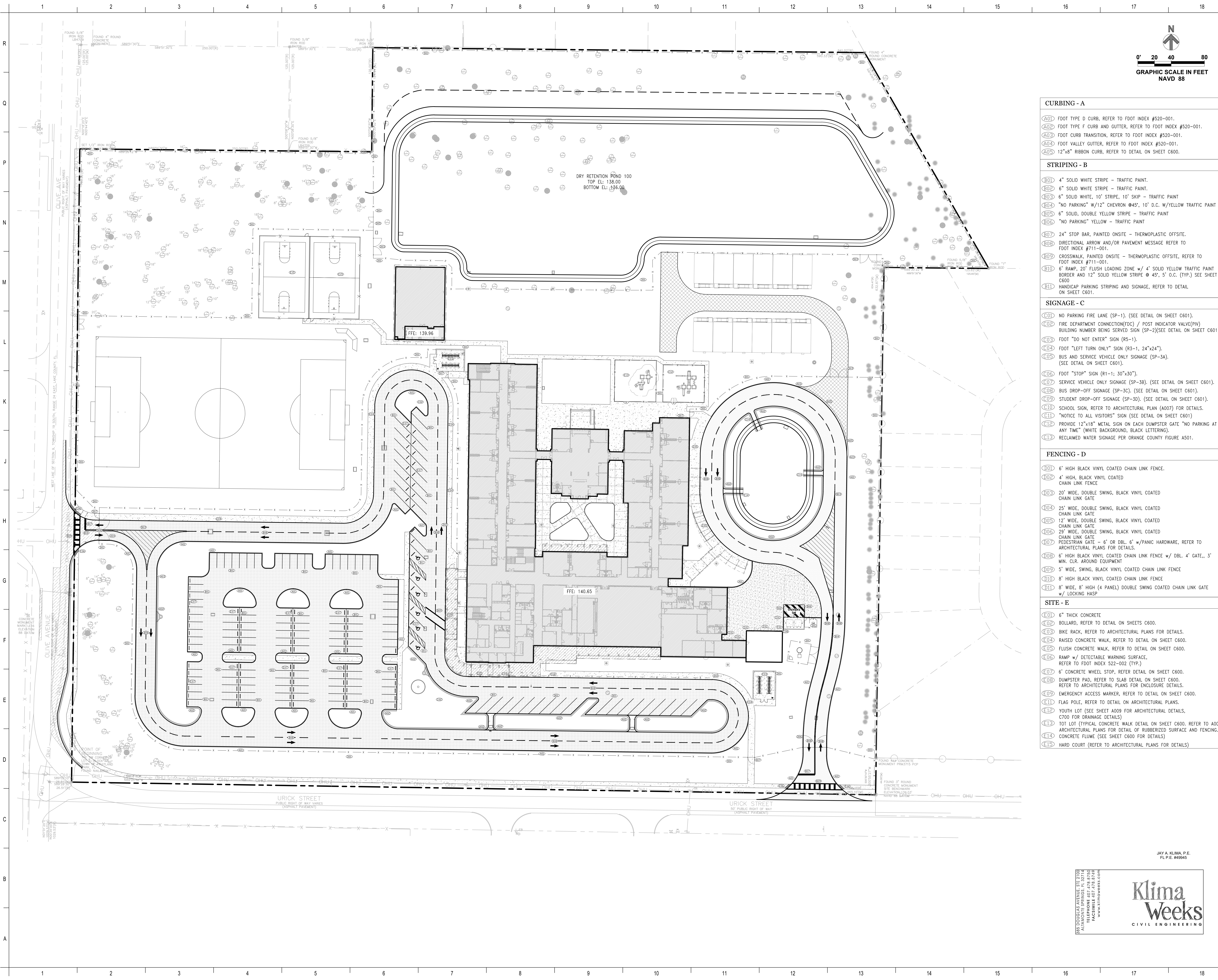
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**DEMOLITION & EROSION
DETAILS**

C-205



- CURBING - A**
- A01 FDOT TYPE D CURB, REFER TO FDOT INDEX #520-001.
 - A02 FDOT TYPE F CURB AND GUTTER, REFER TO FDOT INDEX #520-001.
 - A03 FDOT CURB TRANSITION, REFER TO FDOT INDEX #520-001.
 - A04 FDOT VALLEY GUTTER, REFER TO FDOT INDEX #520-001.
 - A05 12"x8" RIBBON CURB, REFER TO DETAIL ON SHEET C600.

- STRIPING - B**
- B01 4" SOLID WHITE STRIPE - TRAFFIC PAINT.
 - B02 6" SOLID WHITE STRIPE - TRAFFIC PAINT.
 - B03 6" SOLID WHITE, 10" STRIPE, 10" SKIP - TRAFFIC PAINT
 - B04 "NO PARKING" W/12" CHEVRON @45°, 10" D.C. W/YELLOW TRAFFIC PAINT
 - B05 6" SOLID, DOUBLE YELLOW STRIPE - TRAFFIC PAINT
 - B06 "NO PARKING" YELLOW - TRAFFIC PAINT
 - B07 24" STOP BAR, PAINTED ONSITE - THERMOPLASTIC OFFSITE.
 - B08 DIRECTIONAL ARROW AND/OR PAVEMENT MESSAGE REFER TO FDOT INDEX #711-001.
 - B09 CROSSWALK, PAINTED ONSITE - THERMOPLASTIC OFFSITE, REFER TO FDOT INDEX #711-001.
 - B10 6" RAMP, 20" FLUSH LOADING ZONE w/ 4" SOLID YELLOW TRAFFIC PAINT BORDER AND 12" SOLID YELLOW STRIPE @ 45°, 5' O.C. (TYP.) SEE SHEET C600
 - B11 HANDCAP PARKING STRIPING AND SIGNAGE, REFER TO DETAIL ON SHEET C601.

- SIGNAGE - C**
- C01 NO PARKING FIRE LANE (SP-1). (SEE DETAIL ON SHEET C601).
 - C02 FIRE DEPARTMENT CONNECTION(FDC) / POST INDICATOR VALVE(PIV) BUILDING NUMBER BEING SERVED SIGN (SP-2)(SEE DETAIL ON SHEET C601).
 - C03 FDOT "DO NOT ENTER" SIGN (R5-1).
 - C04 FDOT "LEFT TURN ONLY" SIGN (R3-1, 24"x24").
 - C05 BUS AND SERVICE VEHICLE ONLY SIGNAGE (SP-3A). (SEE DETAIL ON SHEET C601).
 - C06 FDOT "STOP" SIGN (R1-1, 30"x30").
 - C07 SERVICE VEHICLE ONLY SIGNAGE (SP-3B). (SEE DETAIL ON SHEET C601).
 - C08 BUS DROP-OFF SIGNAGE (SP-3C). (SEE DETAIL ON SHEET C601).
 - C09 STUDENT DROP-OFF SIGNAGE (SP-3D). (SEE DETAIL ON SHEET C601).
 - C10 SCHOOL SIGN, REFER TO ARCHITECTURAL PLAN (A007) FOR DETAILS.
 - C11 "NOTICE TO ALL VISITORS" SIGN (SEE DETAIL ON SHEET C601)
 - C12 PROVIDE 12"x18" METAL SIGN ON EACH DUMPSTER GATE "NO PARKING AT ANY TIME" (WHITE BACKGROUND, BLACK LETTERING).
 - C13 RECLAIMED WATER SIGNAGE PER ORANGE COUNTY FIGURE A501.

- FENCING - D**
- D01 6" HIGH BLACK VINYL COATED CHAIN LINK FENCE.
 - D02 4" HIGH, BLACK VINYL COATED CHAIN LINK FENCE
 - D03 20' WIDE, DOUBLE SWING, BLACK VINYL COATED CHAIN LINK GATE
 - D04 25' WIDE, DOUBLE SWING, BLACK VINYL COATED CHAIN LINK GATE
 - D05 12' WIDE, DOUBLE SWING, BLACK VINYL COATED CHAIN LINK GATE
 - D06 29' WIDE, DOUBLE SWING, BLACK VINYL COATED CHAIN LINK GATE
 - D07 PEDESTRIAN GATE - 6' OR DBL. 6' w/PANIC HARDWARE, REFER TO ARCHITECTURAL PLANS FOR DETAILS.
 - D08 6" HIGH BLACK VINYL COATED CHAIN LINK FENCE w/ DBL. 4' GATE., 3' MIN. CLR. AROUND EQUIPMENT
 - D09 5' WIDE, SWING, BLACK VINYL COATED CHAIN LINK FENCE
 - D10 8' HIGH BLACK VINYL COATED CHAIN LINK FENCE
 - D11 8' WIDE, 8' HIGH (4 PANEL) DOUBLE SWING COATED CHAIN LINK GATE w/ LOCKING HASP

- SITE - E**
- E01 6" THICK CONCRETE
 - E02 BOLLARD, REFER TO DETAIL ON SHEETS C600.
 - E03 BIKE RACK, REFER TO ARCHITECTURAL PLANS FOR DETAILS.
 - E04 RAISED CONCRETE WALK, REFER TO DETAIL ON SHEET C600.
 - E05 FLUSH CONCRETE WALK, REFER TO DETAIL ON SHEET C600.
 - E06 RAMP w/ DETECTABLE WARNING SURFACE, REFER TO FDOT INDEX 522-002 (TYP.)
 - E07 6" CONCRETE WHEEL STOP, REFER DETAIL ON SHEET C600.
 - E08 DUMPSTER PAD, REFER TO SLAB DETAIL ON SHEET C600. REFER TO ARCHITECTURAL PLANS FOR ENCLOSURE DETAILS.
 - E09 EMERGENCY ACCESS MARKER, REFER TO DETAIL ON SHEET C600.
 - E10 FLAG POLE, REFER TO DETAIL ON ARCHITECTURAL PLANS.
 - E11 YOUTH LOT (SEE SHEET A009 FOR ARCHITECTURAL DETAILS, C700 FOR DRAINAGE DETAILS)
 - E12 TOT LOT (TYPICAL CONCRETE WALK DETAIL ON SHEET C600, REFER TO A009 ARCHITECTURAL PLANS FOR DETAIL OF RUBBERIZED SURFACE AND FENCING).
 - E13 CONCRETE FLUME (SEE SHEET C600 FOR DETAILS)
 - E14 HARD COURT (REFER TO ARCHITECTURAL PLANS FOR DETAILS)

SCHENKELSHULTZ
ARCHITECTURE

200 E. Robinson Street
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Orlando, FL 32801
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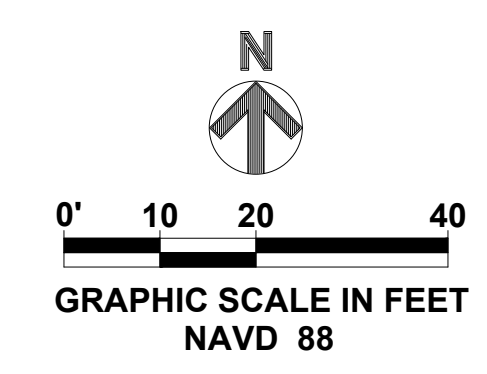
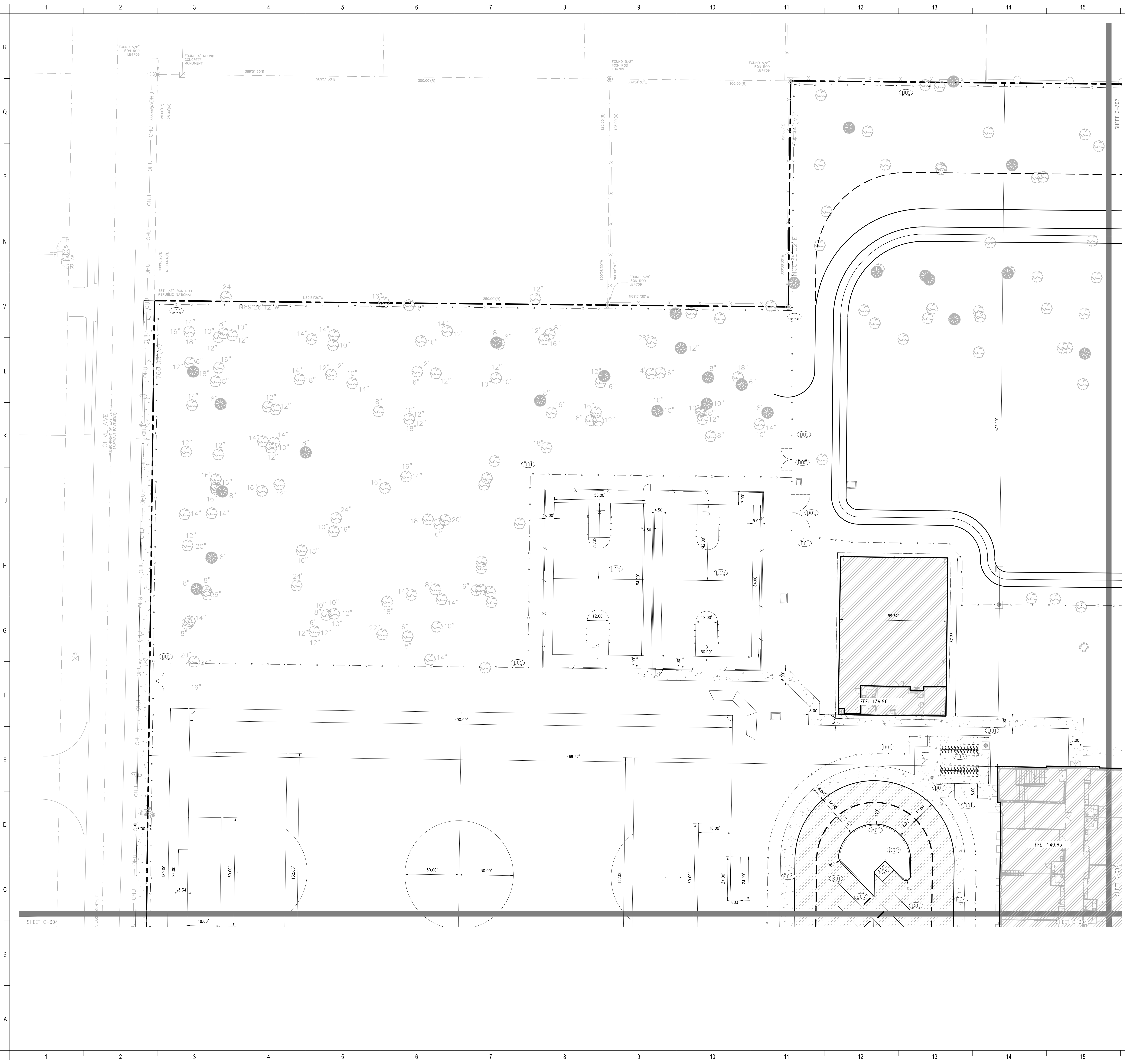
GEOMETRY & STRIPING

C-300

JAY A KLIMA, P.E.
FL P.E. #49946

Klima Weeks
CIVIL ENGINEERING

1001 S. WINDY AVENUE, STE. 810
ALAMONTI SPRINGS, FL 32714
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 - (A04) FDOT VALLEY GUTTER, REFER TO FDOT INDEX #520-001.
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 - (B09) CROSSWALK, PAINTED ONSITE - THERMOPLASTIC OFFSITE, REFER TO FDOT INDEX #711-001.
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 - (B11) HANDICAP PARKING STRIPING AND SIGNAGE, REFER TO DETAIL ON SHEET C601.
- SIGNAGE - C**
- (C01) NO PARKING FIRE LANE (SP-1). (SEE DETAIL ON SHEET C601).
 - (C02) FIRE DEPARTMENT CONNECTION(FDC) / POST INDICATOR VALVE(PIV) BUILDING NUMBER BEING SERVED SIGN (SP-2)(SEE DETAIL ON SHEET C601).
 - (C03) FDOT "DO NOT ENTER" SIGN (R5-1).
 - (C04) FDOT "LEFT TURN ONLY" SIGN (R3-1, 24"x24").
 - (C05) BUS AND SERVICE VEHICLE ONLY SIGNAGE (SP-3A). (SEE DETAIL ON SHEET C601).
 - (C06) FDOT "STOP" SIGN (R1-1, 30"x30").
 - (C07) SERVICE VEHICLE ONLY SIGNAGE (SP-3B). (SEE DETAIL ON SHEET C601).
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 - (C09) STUDENT DROP-OFF SIGNAGE (SP-3D). (SEE DETAIL ON SHEET C601).
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 - (D08) 6" HIGH BLACK VINYL COATED CHAIN LINK FENCE w/ DBL. 4' GATE., 3' MIN. CLR. AROUND EQUIPMENT
 - (D09) 5' WIDE, SWING, BLACK VINYL COATED CHAIN LINK FENCE
 - (D10) 8' HIGH BLACK VINYL COATED CHAIN LINK FENCE
 - (D11) 8' WIDE, 8' HIGH (4 PANEL) DOUBLE SWING COATED CHAIN LINK GATE w/ LOCKING HASP
- SITE - E**
- (E01) 6" THICK CONCRETE
 - (E02) BOLLARD, REFER TO DETAIL ON SHEETS C600.
 - (E03) BIKE RACK, REFER TO ARCHITECTURAL PLANS FOR DETAILS.
 - (E04) RAISED CONCRETE WALK, REFER TO DETAIL ON SHEET C600.
 - (E05) FLUSH CONCRETE WALK, REFER TO DETAIL ON SHEET C600.
 - (E06) RAMP w/ DETECTABLE WARNING SURFACE, REFER TO FDOT INDEX 522-002 (TYP.)
 - (E07) 6' CONCRETE WHEEL STOP, REFER DETAIL ON SHEET C600.
 - (E08) DUMPSTER PAD, REFER TO SLAB DETAIL ON SHEET C600. REFER TO ARCHITECTURAL PLANS FOR ENCLOSURE DETAILS.
 - (E09) EMERGENCY ACCESS MARKER, REFER TO DETAIL ON SHEET C600.
 - (E10) FLAG POLE, REFER TO DETAIL ON ARCHITECTURAL PLANS.
 - (E11) YOUTH LOT (SEE SHEET A009 FOR ARCHITECTURAL DETAILS, C700 FOR DRAINAGE DETAILS)
 - (E12) TOT LOT (TYPICAL CONCRETE WALK DETAIL ON SHEET C600. REFER TO A009 ARCHITECTURAL PLANS FOR DETAIL OF RUBBERIZED SURFACE AND FENCING.)
 - (E13) CONCRETE FLUME (SEE SHEET C600 FOR DETAILS)
 - (E14) HARD COURT (REFER TO ARCHITECTURAL PLANS FOR DETAILS)

SCHENKELSHULTZ
ARCHITECTURE

200 E. Robinson Street
Suite 300
Orlando, FL 32801
voice 407-872-3322
fax 407-872-3303

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**FRUITLAND PARK
ELEMENTARY SCHOOL
REPLACEMENT**



LAKE COUNTY SCHOOLS
201 WEST BURLINGHAM BLVD, TAVARES, FL 32778

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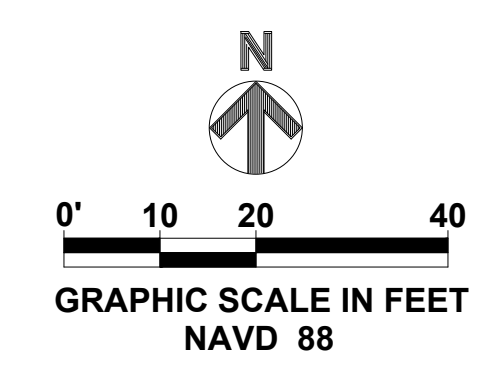
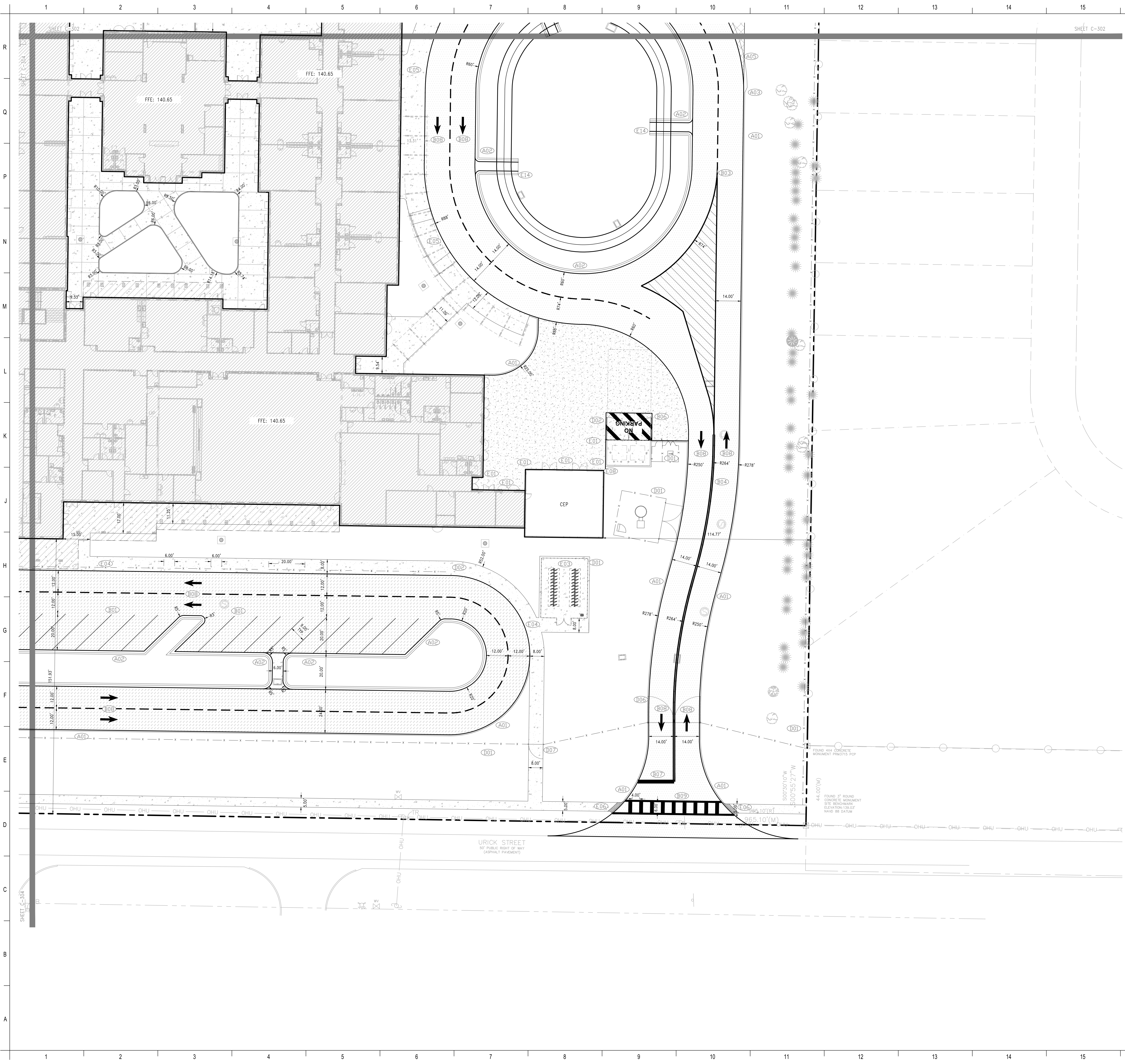
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C-301

1000 S. WINDY AVENUE, STE. 310
ALAMONTI SPRINGS, FL 32714
TELEPHONE 407.478.8158
WWW.HITROVERS.COM

Klima Weeks
CIVIL ENGINEERING

JAY A. KLIMA, P.E.
FL P.E. #49946



- CURBING - A**
- (A01) FDOT TYPE D CURB, REFER TO FDOT INDEX #520-001.
 - (A02) FDOT TYPE F CURB AND GUTTER, REFER TO FDOT INDEX #520-001.
 - (A03) FDOT CURB TRANSITION, REFER TO FDOT INDEX #520-001.
 - (A04) FDOT VALLEY GUTTER, REFER TO FDOT INDEX #520-001.
 - (A05) 12"x8" RIBBON CURB, REFER TO DETAIL ON SHEET C600.
- STRIPING - B**
- (B01) 4" SOLID WHITE STRIPE - TRAFFIC PAINT.
 - (B02) 6" SOLID WHITE STRIPE - TRAFFIC PAINT.
 - (B03) 6" SOLID WHITE, 10" STRIPE, 10" SKIP - TRAFFIC PAINT
 - (B04) "NO PARKING" W/12" CHEVRON @45°, 10" D.C. W/YELLOW TRAFFIC PAINT
 - (B05) 6" SOLID, DOUBLE YELLOW STRIPE - TRAFFIC PAINT
 - (B06) "NO PARKING" YELLOW - TRAFFIC PAINT
 - (B07) 24" STOP BAR, PAINTED ONSITE - THERMOPLASTIC OFFSITE.
 - (B08) DIRECTIONAL ARROW AND/OR PAVEMENT MESSAGE REFER TO FDOT INDEX #711-001.
 - (B09) CROSSWALK, PAINTED ONSITE - THERMOPLASTIC OFFSITE, REFER TO FDOT INDEX #711-001.
 - (B10) 6" RAMP, 20" FLUSH LOADING ZONE w/ 4" SOLID YELLOW TRAFFIC PAINT BORDER AND 12" SOLID YELLOW STRIPE @ 45°, 5' O.C. (TYP.) SEE SHEET C600
 - (B11) HANDICAP PARKING STRIPING AND SIGNAGE, REFER TO DETAIL ON SHEET C601.
- SIGNAGE - C**
- (C01) NO PARKING FIRE LANE (SP-1). (SEE DETAIL ON SHEET C601).
 - (C02) FIRE DEPARTMENT CONNECTION(FDC) / POST INDICATOR VALVE(PIV) BUILDING NUMBER BEING SERVED SIGN (SP-2)(SEE DETAIL ON SHEET C601).
 - (C03) FDOT "DO NOT ENTER" SIGN (R5-1).
 - (C04) FDOT "LEFT TURN ONLY" SIGN (R3-1, 24"x24").
 - (C05) BUS AND SERVICE VEHICLE ONLY SIGNAGE (SP-3A). (SEE DETAIL ON SHEET C601).
 - (C06) FDOT "STOP" SIGN (R1-1, 30"x30").
 - (C07) SERVICE VEHICLE ONLY SIGNAGE (SP-3B). (SEE DETAIL ON SHEET C601).
 - (C08) BUS DROP-OFF SIGNAGE (SP-3C). (SEE DETAIL ON SHEET C601).
 - (C09) STUDENT DROP-OFF SIGNAGE (SP-3D). (SEE DETAIL ON SHEET C601).
 - (C10) SCHOOL SIGN, REFER TO ARCHITECTURAL PLAN (A007) FOR DETAILS.
 - (C11) "NOTICE TO ALL VISITORS" SIGN (SEE DETAIL ON SHEET C601)
 - (C12) PROVIDE 12"x18" METAL SIGN ON EACH DUMPSTER GATE "NO PARKING AT ANY TIME" (WHITE BACKGROUND, BLACK LETTERING).
 - (C13) RECLAIMED WATER SIGNAGE PER ORANGE COUNTY FIGURE A501.
- FENCING - D**
- (D01) 6" HIGH BLACK VINYL COATED CHAIN LINK FENCE.
 - (D02) 4" HIGH, BLACK VINYL COATED CHAIN LINK FENCE
 - (D03) 20' WIDE, DOUBLE SWING, BLACK VINYL COATED CHAIN LINK GATE
 - (D04) 25' WIDE, DOUBLE SWING, BLACK VINYL COATED CHAIN LINK GATE
 - (D05) 12" WIDE, DOUBLE SWING, BLACK VINYL COATED CHAIN LINK GATE
 - (D06) 29' WIDE, DOUBLE SWING, BLACK VINYL COATED CHAIN LINK GATE
 - (D07) PEDESTRIAN GATE - 6' OR DBL. 6' w/PANIC HARDWARE, REFER TO ARCHITECTURAL PLANS FOR DETAILS.
 - (D08) 6" HIGH BLACK VINYL COATED CHAIN LINK FENCE w/ DBL. 4' GATE., 3' MIN. CLR. AROUND EQUIPMENT
 - (D09) 5' WIDE, SWING, BLACK VINYL COATED CHAIN LINK FENCE
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- SITE - E**
- (E01) 6" THICK CONCRETE
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 - (E03) BIKE RACK, REFER TO ARCHITECTURAL PLANS FOR DETAILS.
 - (E04) RAISED CONCRETE WALK, REFER TO DETAIL ON SHEET C600.
 - (E05) FLUSH CONCRETE WALK, REFER TO DETAIL ON SHEET C600.
 - (E06) RAMP w/ DETECTABLE WARNING SURFACE, REFER TO FDOT INDEX 522-002 (TYP.)
 - (E07) 6" CONCRETE WHEEL STOP, REFER DETAIL ON SHEET C600.
 - (E08) DUMPSTER PAD, REFER TO SLAB DETAIL ON SHEET C600. REFER TO ARCHITECTURAL PLANS FOR ENCLOSURE DETAILS.
 - (E09) EMERGENCY ACCESS MARKER, REFER TO DETAIL ON SHEET C600.
 - (E10) FLAG POLE, REFER TO DETAIL ON ARCHITECTURAL PLANS.
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 - (E13) CONCRETE FLUME (SEE SHEET C600 FOR DETAILS)
 - (E14) HARD COURT (REFER TO ARCHITECTURAL PLANS FOR DETAILS)

SCHENKELSHULTZ
 ARCHITECTURE

200 E. Robinson Street
 Suite 300
 Orlando, FL 32801
 voice 407-872-3322
 fax 407-872-3303

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 ELEMENTARY SCHOOL
 REPLACEMENT**

Fruitland Park, FL



LAKE COUNTY SCHOOLS
 201 WEST BURLEIGH BLVD, TAVARES, FL 32778

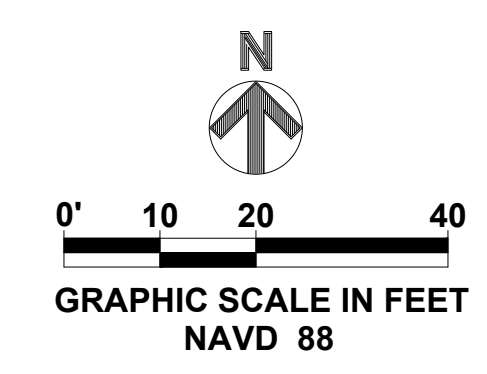
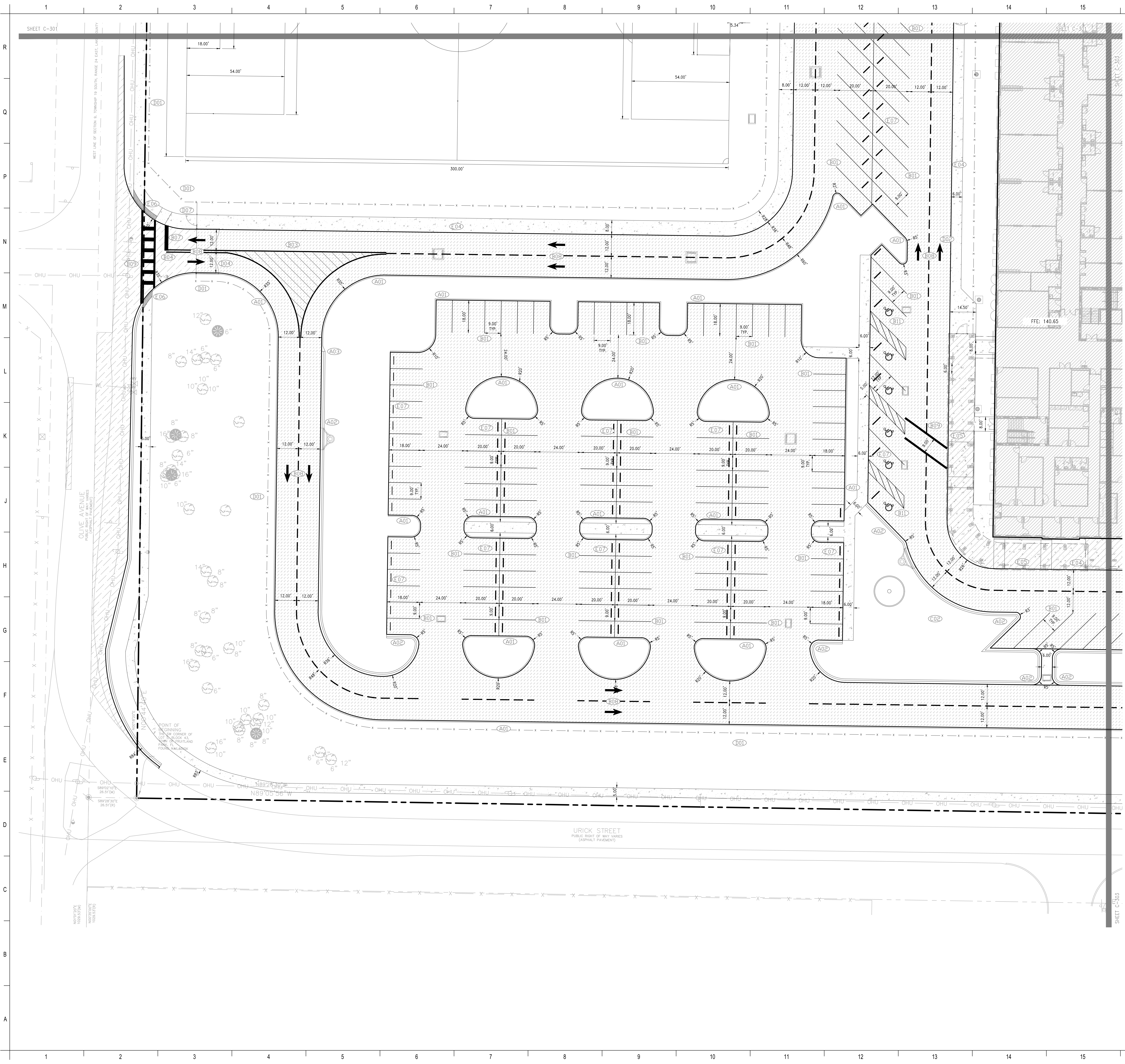
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GEOMETRY & STRIPING

C-303

JAY A. KLIMA, P.E.
 FL P.E. #49846





- CURBING - A**
- A01 FDOT TYPE D CURB, REFER TO FDOT INDEX #520-001.
 - A02 FDOT TYPE F CURB AND GUTTER, REFER TO FDOT INDEX #520-001.
 - A03 FDOT CURB TRANSITION, REFER TO FDOT INDEX #520-001.
 - A04 FDOT VALLEY GUTTER, REFER TO FDOT INDEX #520-001.
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 - B11 HANDCAP PARKING STRIPING AND SIGNAGE, REFER TO DETAIL ON SHEET C601.
- SIGNAGE - C**
- C01 NO PARKING FIRE LANE (SP-1). (SEE DETAIL ON SHEET C601).
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 - D05 12' WIDE, DOUBLE SWING, BLACK VINYL COATED CHAIN LINK GATE
 - D06 29' WIDE, DOUBLE SWING, BLACK VINYL COATED CHAIN LINK GATE
 - D07 PEDESTRIAN GATE - 6' OR DBL. 6' w/PANIC HARDWARE, REFER TO ARCHITECTURAL PLANS FOR DETAILS.
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 - E13 CONCRETE FLUME (SEE SHEET C600 FOR DETAILS)
 - E14 HARD COURT (REFER TO ARCHITECTURAL PLANS FOR DETAILS)

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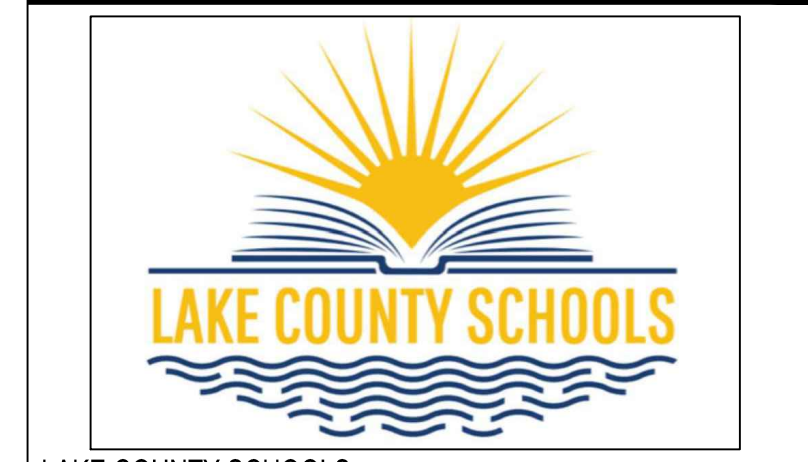
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Suite 300
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**FRUITLAND PARK
ELEMENTARY SCHOOL
REPLACEMENT**

Fruitland Park, FL



LAKE COUNTY SCHOOLS
201 WEST BURLINGHAM BLVD, TAVARES, FL 32778

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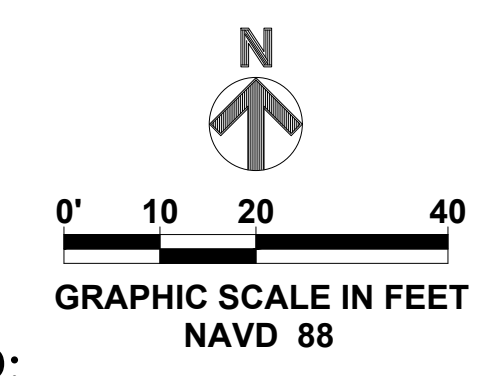
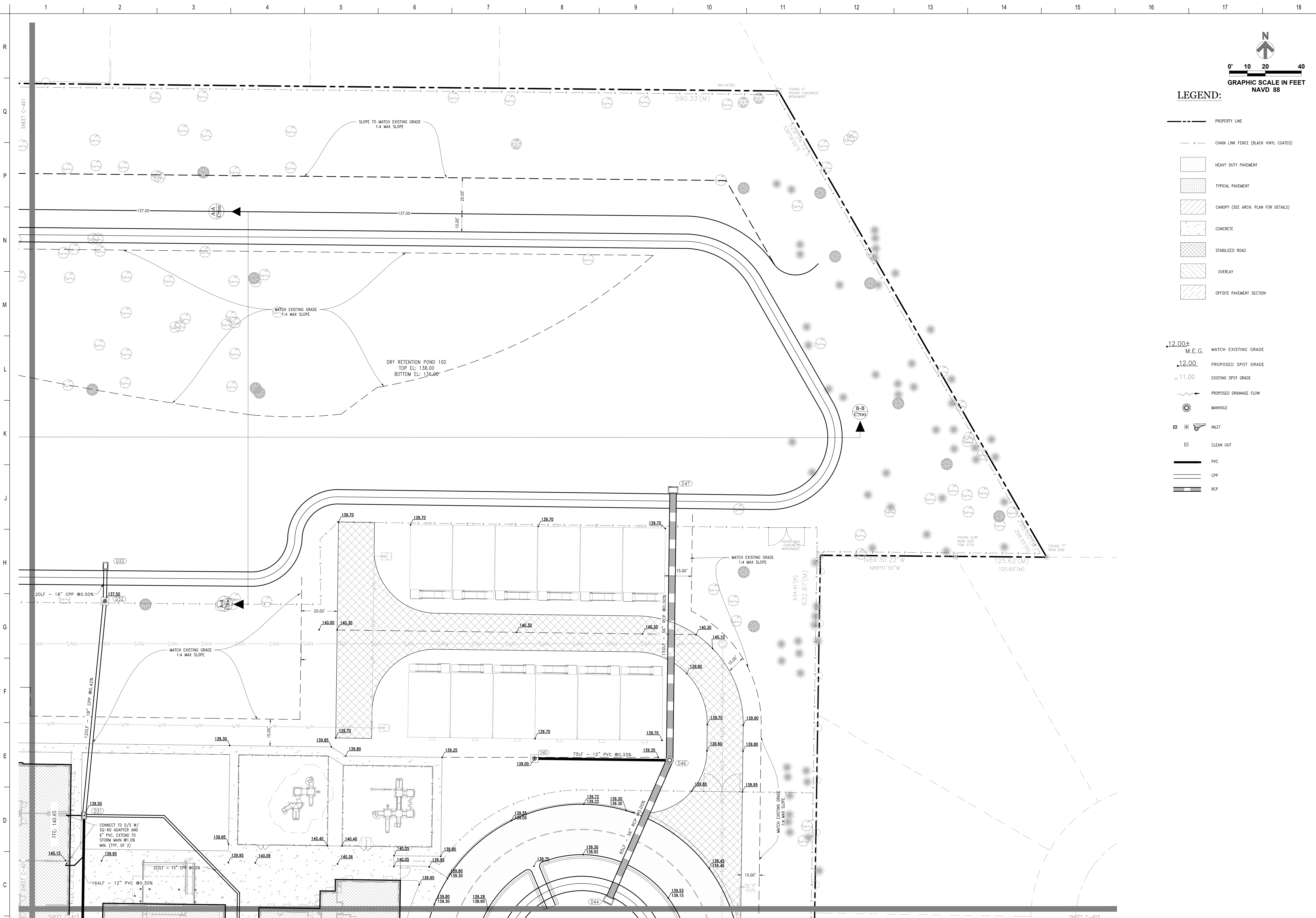
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1000 S. WINDY AVENUE, STE. 300
ALAMONTI SPRINGS, FL 32714
TELEPHONE 407.478.8150
WWW.HITROVERS.COM

Klima Weeks
CIVIL ENGINEERING

JAY A. KLIMA, P.E.
FL P.E. #49946

NOT RELEASED FOR CONSTRUCTION



LEGEND:

- PROPERTY LINE
- x CHAIN LINK FENCE (BLACK VINYL COATED)
- [Pattern] HEAVY DUTY PAVEMENT
- [Pattern] TYPICAL PAVEMENT
- [Pattern] CANOPY (SEE ARCH. PLAN FOR DETAILS)
- [Pattern] CONCRETE
- [Pattern] STABILIZED ROAD
- [Pattern] OVERLAY
- [Pattern] OFFSITE PAVEMENT SECTION
- M.E.G. MATCH EXISTING GRADE
- 12.00 PROPOSED SPOT GRADE
- x 11.00 EXISTING SPOT GRADE
- ~ PROPOSED DRAINAGE FLOW
- MANHOLE
- INLET
- CLEAN OUT
- PVC
- CPP
- RCP

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 ARCHITECTURE

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 Suite 300
 Orlando, FL 32801
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 fax 407-872-3303

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GRAD PLAN

C-402

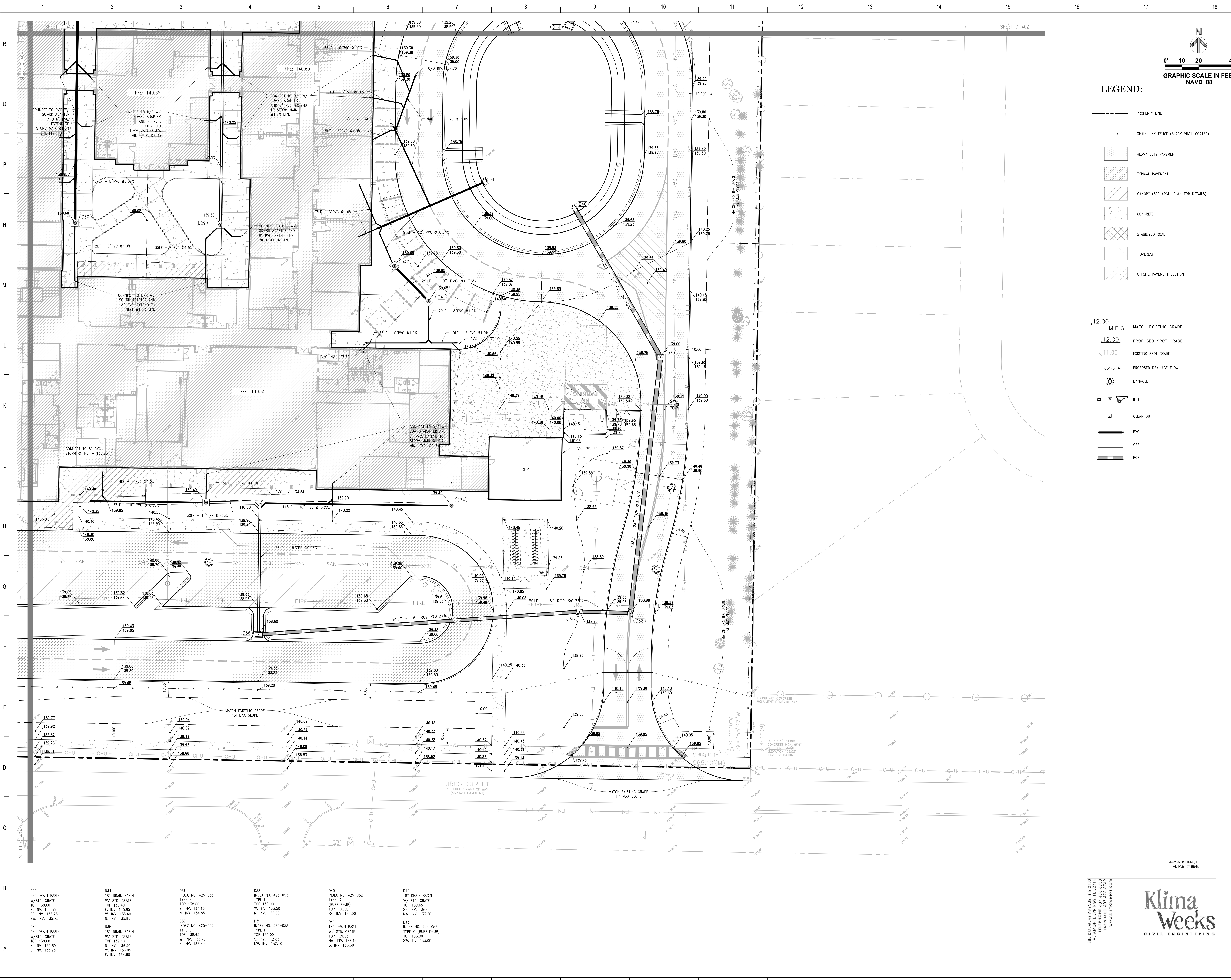
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 ALAQUATE SPRINGS, FL 32714
 TELEPHONE 407.478.8150
 FAX 407.478.8151
 WWW.HUTTENBERGER.COM

Klima Weeks
 CIVIL ENGINEERING

JAY A. KLIMA, P.E.
 FL P.E. #49945

- D31 INDEX NO. 425-052
TYPE C
TOP 139.50
S. INV. 135.10
N. INV. 133.50
E. INV. 135.00
W. INV. 136.00
- D32 24" DRAIN BASIN
W/STD. GRATE
TOP 137.50
S. INV. 133.00
N. INV. 132.60
- D33 INDEX NO. 425-052
TYPE C (BUBBLE-UP)
TOP 136.00
S. INV. 132.50
- D44 INDEX NO. 425-052
TYPE E (INTERCONNECT)
TOP 136.00
NE. INV. 130.00
- D45 18" GRAB BASIN
W/ STD. GRATE
TOP 139.00
S. INV. 135.00
- D46 INDEX NO. 425-001
TYPE J MANHOLE
TOP 139.50
W. INV. 134.75
N. INV. 130.00
SW. INV. 130.00
- D47 INDEX NO. 425-052
TYPE E (INTERCONNECT)
TOP 136.00
S. INV. 130.00

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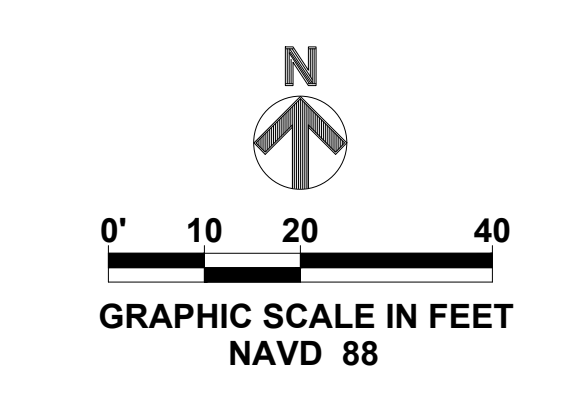


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Suite 300
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LEGEND:

- PROPERTY LINE
 - x- CHAIN LINK FENCE (BLACK VINYL COATED)
 - HEAVY DUTY PAVEMENT
 - TYPICAL PAVEMENT
 - CANOPY (SEE ARCH. PLAN FOR DETAILS)
 - CONCRETE
 - STABILIZED ROAD
 - OVERLAY
 - OFFSITE PAVEMENT SECTION
-
- 12.00+ M.E.G. MATCH EXISTING GRADE
 - 12.00 PROPOSED SPOT GRADE
 - x 11.00 EXISTING SPOT GRADE
 - PROPOSED DRAINAGE FLOW
 - MANHOLE
 - INLET
 - CLEAN OUT
 - PVC
 - CPP
 - RCP

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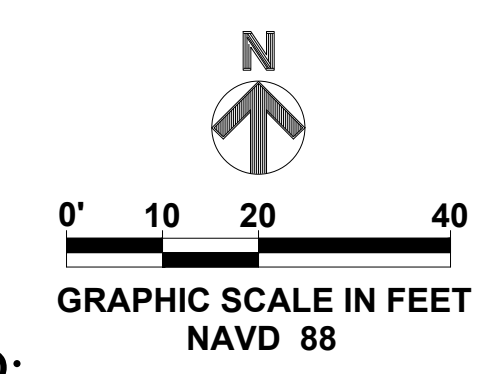
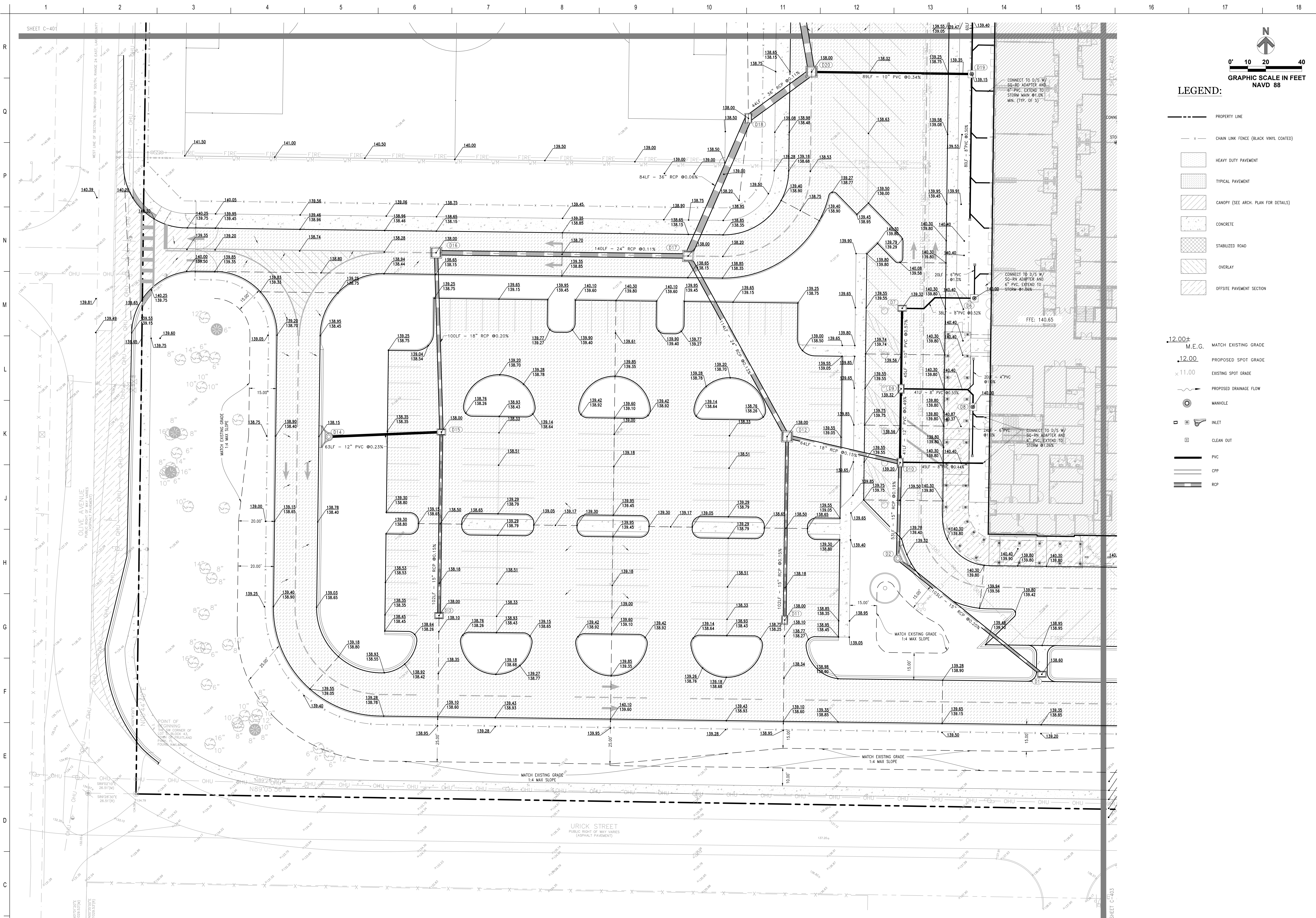
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CIVIL ENGINEERING

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C-403

- D29 24" DRAIN BASIN
W/ STD. GRATE
TOP 139.60
N. INV. 135.35
SE. INV. 135.75
SW. INV. 135.75
- D30 24" DRAIN BASIN
W/ STD. GRATE
TOP 139.60
N. INV. 135.60
S. INV. 135.95
- D34 18" DRAIN BASIN
W/ STD. GRATE
TOP 139.40
E. INV. 135.95
W. INV. 135.60
N. INV. 135.95
- D35 18" DRAIN BASIN
W/ STD. GRATE
TOP 139.40
N. INV. 135.40
E. INV. 134.60
- D36 INDEX NO. 425-053
TYPE F
TOP 138.60
E. INV. 134.10
W. INV. 134.85
N. INV. 134.85
- D37 INDEX NO. 425-052
TYPE C
TOP 138.65
W. INV. 133.70
E. INV. 133.60
- D38 INDEX NO. 425-055
TYPE F
TOP 139.90
W. INV. 133.50
N. INV. 133.00
- D40 INDEX NO. 425-052
TYPE C
TOP 139.65
W. INV. 136.15
S. INV. 136.30
- D42 18" DRAIN BASIN
W/ STD. GRATE
TOP 139.65
SE. INV. 136.05
NW. INV. 133.50
- D41 18" DRAIN BASIN
W/ STD. GRATE
TOP 139.65
W. INV. 136.15
S. INV. 136.30
- D43 INDEX NO. 425-052
TYPE F
TOP 139.00
TOP 136.00
S. INV. 132.85
NW. INV. 132.10

NOT RELEASED FOR CONSTRUCTION



LEGEND:

- PROPERTY LINE
- x-x- CHAIN LINK FENCE (BLACK VINYL COATED)
- [Pattern] HEAVY DUTY PAVEMENT
- [Pattern] TYPICAL PAVEMENT
- [Pattern] CANOPY (SEE ARCH. PLAN FOR DETAILS)
- [Pattern] CONCRETE
- [Pattern] STABILIZED ROAD
- [Pattern] OVERLAY
- [Pattern] OFFSITE PAVEMENT SECTION

- 12.00± M.E.G. MATCH EXISTING GRADE
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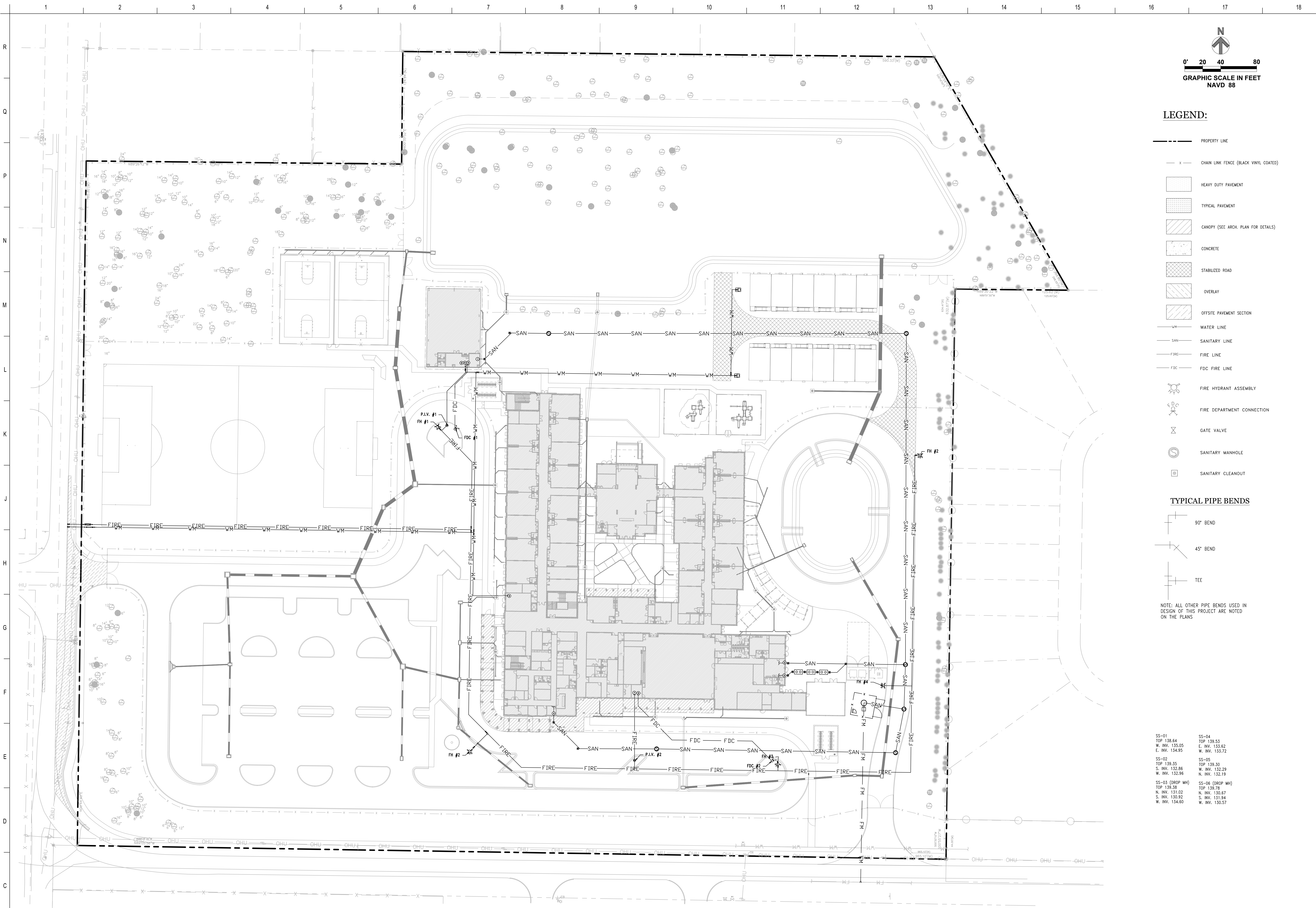
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GRAD PLAN

C-404

- | | | | | | | | | |
|--|---|---|--|--|--|--|--|---|
| D1
INDEX NO. 425-053
TYPE C
TOP 138.60
N. INV. 134.10 | D6
15" DRAIN BASIN
W/STD. GRATE
TOP 140.00
N. INV. 136.00
E. INV. 135.85 | D8
15" DRAIN BASIN
W/STD. GRATE
TOP 140.00
N. INV. 136.05
E. INV. 135.80 | D10
INDEX NO. 425-053
TYPE C
TOP 139.32
S. INV. 133.70
W. INV. 133.45
N. INV. 134.90
E. INV. 135.85 | D12
INDEX NO. 425-053
TYPE C
TOP 138.00
S. INV. 133.25
W. INV. 133.15
N. INV. 133.50 | D14
INDEX NO. 425-020
TYPE F-4
TOP 138.53
E. INV. 133.75 | D16
INDEX NO. 425-053
TYPE E
TOP 138.00
S. INV. 132.90
E. INV. 132.40 | D18
INDEX NO. 425-052
TYPE E
TOP 138.00
SW. INV. 131.20
NE. INV. 131.10 | D20
INDEX NO. 425-053
TYPE E
TOP 138.00
SW. INV. 131.05
N. INV. 130.95
E. INV. 134.15 |
| D2
INDEX NO. 425-020
TYPE P-4
TOP 139.70
SE. INV. 133.90
N. INV. 133.80 | D7
INDEX NO. 425-053
TYPE F
TOP 139.32
S. INV. 133.90
E. INV. 133.65 | D9
INDEX NO. 425-053
TYPE F
TOP 139.32
S. INV. 133.25
E. INV. 133.65 | D11
INDEX NO. 425-053
TYPE F
TOP 138.00
N. INV. 133.10
S. INV. 133.75 | D13
INDEX NO. 425-053
TYPE F
TOP 138.00
N. INV. 133.50 | D15
INDEX NO. 425-053
TYPE F
TOP 138.00
N. INV. 133.50 | D17
INDEX NO. 425-053
TYPE G
TOP 138.00
SE. INV. 132.70
NE. INV. 131.25
W. INV. 132.25 | D19
15" DRAIN BASIN
W/STD. GRATE
TOP 139.15
W. INV. 134.45
S. INV. 134.60
N. INV. 134.60 | |

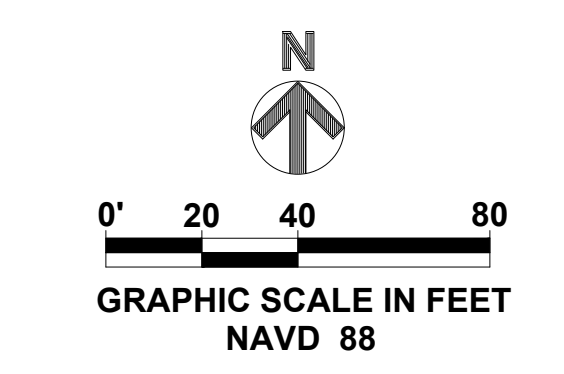
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SCHENKELSHULTZ
 ARCHITECTURE

200 E. Robinson Street
 Suite 300
 Orlando, FL 32801
 voice 407-872-3322
 fax 407-872-3303

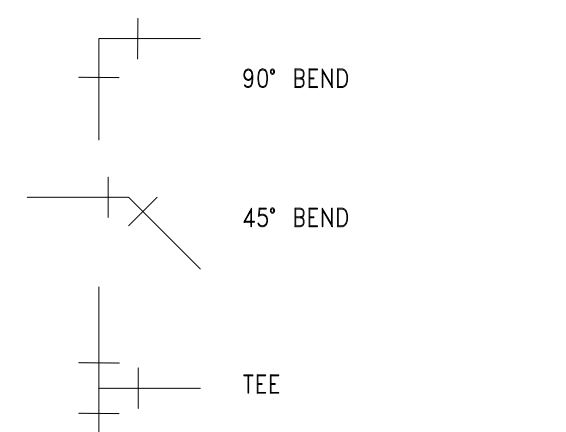
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LEGEND:

- PROPERTY LINE
- x- CHAIN LINK FENCE (BLACK VINYL COATED)
- [Pattern] HEAVY DUTY PAVEMENT
- [Pattern] TYPICAL PAVEMENT
- [Pattern] CANOPY (SEE ARCH. PLAN FOR DETAILS)
- [Pattern] CONCRETE
- [Pattern] STABILIZED ROAD
- [Pattern] OVERLAY
- [Pattern] OFFSITE PAVEMENT SECTION
- WM WATER LINE
- SAN SANITARY LINE
- FIRE FIRE LINE
- FDC FDC FIRE LINE
- [Symbol] FIRE HYDRANT ASSEMBLY
- [Symbol] FIRE DEPARTMENT CONNECTION
- [Symbol] GATE VALVE
- [Symbol] SANITARY MANHOLE
- [Symbol] SANITARY CLEANOUT

TYPICAL PIPE BENDS



NOTE: ALL OTHER PIPE BENDS USED IN DESIGN OF THIS PROJECT ARE NOTED ON THE PLANS

SS-01 TOP 138.64 W. INV. 135.05 E. INV. 134.95	SS-04 TOP 139.53 E. INV. 133.62 W. INV. 133.72
SS-02 TOP 139.55 S. INV. 132.86 W. INV. 132.96	SS-05 TOP 139.30 W. INV. 132.29 N. INV. 132.19
SS-03 (DROOP MH) TOP 139.38 N. INV. 131.02 S. INV. 130.92 W. INV. 134.60	SS-06 (DROOP MH) TOP 139.78 N. INV. 130.57 S. INV. 131.94 W. INV. 130.57

KEYNOTES - UTILITIES

- ① 4" SS SERVICE TO 6" AFTER BUILDING. CONTRACTOR TO PROVIDE FITTINGS. REFER TO PLUMBING PLANS FOR CONTINUATION. INV. 137.46.
- ② 6" PVC SANITARY SERVICE @ 1.00% MIN. TO BUILDING. REFER TO PLUMBING PLANS FOR CONTINUATION. INV. 135.90
- ③ 6" PVC SANITARY SERVICE @ 1.00% MIN. TO BUILDING. REFER TO PLUMBING PLANS FOR CONTINUATION AND INVERT AT BUILDING. GREASE TRAP SHOWN FOR LOCATION PURPOSES ONLY. REFER TO PLUMBING PLANS FOR GREASE TRAP DETAILS INCLUDING SIZE AND CALCULATIONS. REFER TO PLUMBING PLANS FOR CONNECTION TO BUILDING. INV. 137.15
- ④ 6" PVC SANITARY SERVICE @ 1.00% MIN. TO BUILDING. REFER TO PLUMBING PLANS FOR CONTINUATION. INV. 135.90
- ⑤ 4" PVC SANITARY SERVICE @ 1.00% MIN. TO BUILDING. REFER TO PLUMBING PLANS FOR CONTINUATION. INV. 134.98.
- ⑥ 4" FIRE SERVICE FROM FDC. REFER TO FIRE PROTECTION PLANS FOR CONTINUATION AND INVERT AT BUILDING.
- ⑦ 4" FIRE SERVICE. REFER TO FIRE PROTECTION PLANS FOR CONTINUATION AND INVERT AT BUILDING.
- ⑧ 6" FIRE SERVICE. REFER TO FIRE PROTECTION PLANS FOR CONTINUATION AND INVERT AT BUILDING.
- ⑨ 1-1/2" WATER SERVICE TO BUILDING. REFER TO PLUMBING PLANS FOR INVERT AT BUILDING AND CONTINUATION INTO BUILDING
- ⑩ 3" WATER SERVICE TO BUILDING. REFER TO PLUMBING PLANS FOR INVERT AT BUILDING AND CONTINUATION INTO BUILDING

FRUITLAND PARK ELEMENTARY SCHOOL REPLACEMENT

Fruitland Park, FL



LAKE COUNTY SCHOOLS
 201 WEST BURLEIGH BLVD, TAVARES, FL 32778

ISSUE DATE: 8/16/2023
 COMM. NO.: 2023100

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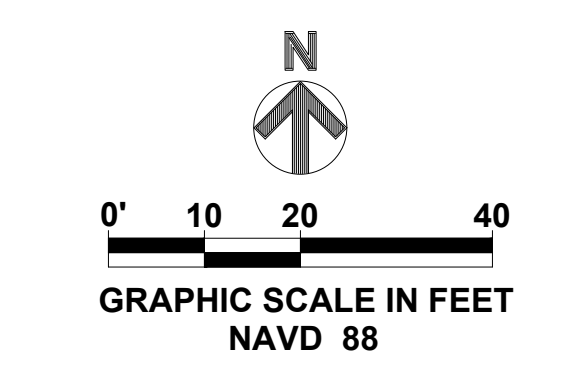
UTILITY PLAN

C-500

JAY A. KLIMA, P.E.
 FL P.E. #49946



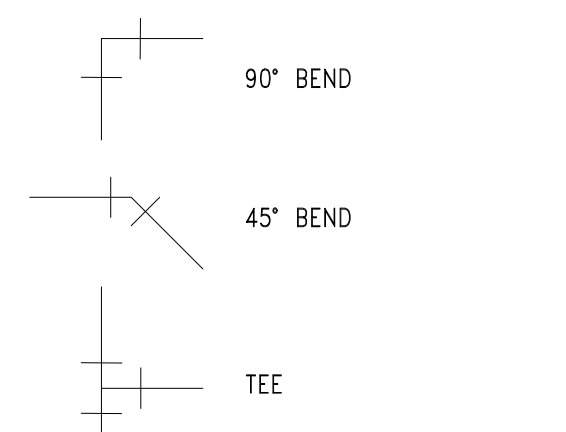
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LEGEND:

- PROPERTY LINE
- x- CHAIN LINK FENCE (BLACK VINYL COATED)
- [Pattern] HEAVY DUTY PAVEMENT
- [Pattern] TYPICAL PAVEMENT
- [Pattern] CANOPY (SEE ARCH. PLAN FOR DETAILS)
- [Pattern] CONCRETE
- [Pattern] STABILIZED ROAD
- [Pattern] OVERLAY
- [Pattern] OFFSITE PAVEMENT SECTION
- WM WATER LINE
- SAN SANITARY LINE
- FIRE FIRE LINE
- FDC FDC FIRE LINE
- [Symbol] FIRE HYDRANT ASSEMBLY
- [Symbol] FIRE DEPARTMENT CONNECTION
- [Symbol] GATE VALVE
- [Symbol] SANITARY MANHOLE
- [Symbol] SANITARY CLEANSOUT

TYPICAL PIPE BENDS



NOTE: ALL OTHER PIPE BENDS USED IN DESIGN OF THIS PROJECT ARE NOTED ON THE PLANS

SCHENKELSHULTZ
ARCHITECTURE

200 E. Robinson Street
Suite 300
Orlando, FL 32801
voice 407-872-3322
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**FRUITLAND PARK
ELEMENTARY SCHOOL
REPLACEMENT**

Fruitland Park, FL



LAKE COUNTY SCHOOLS
201 WEST BURLEIGH BLVD, TAVARES, FL 32778

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UTILITY PLAN

C-501

KEYNOTES - UTILITIES

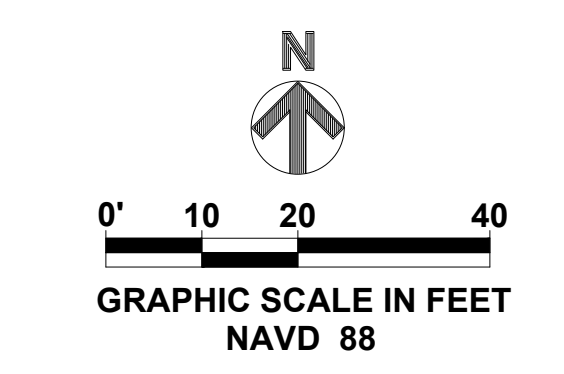
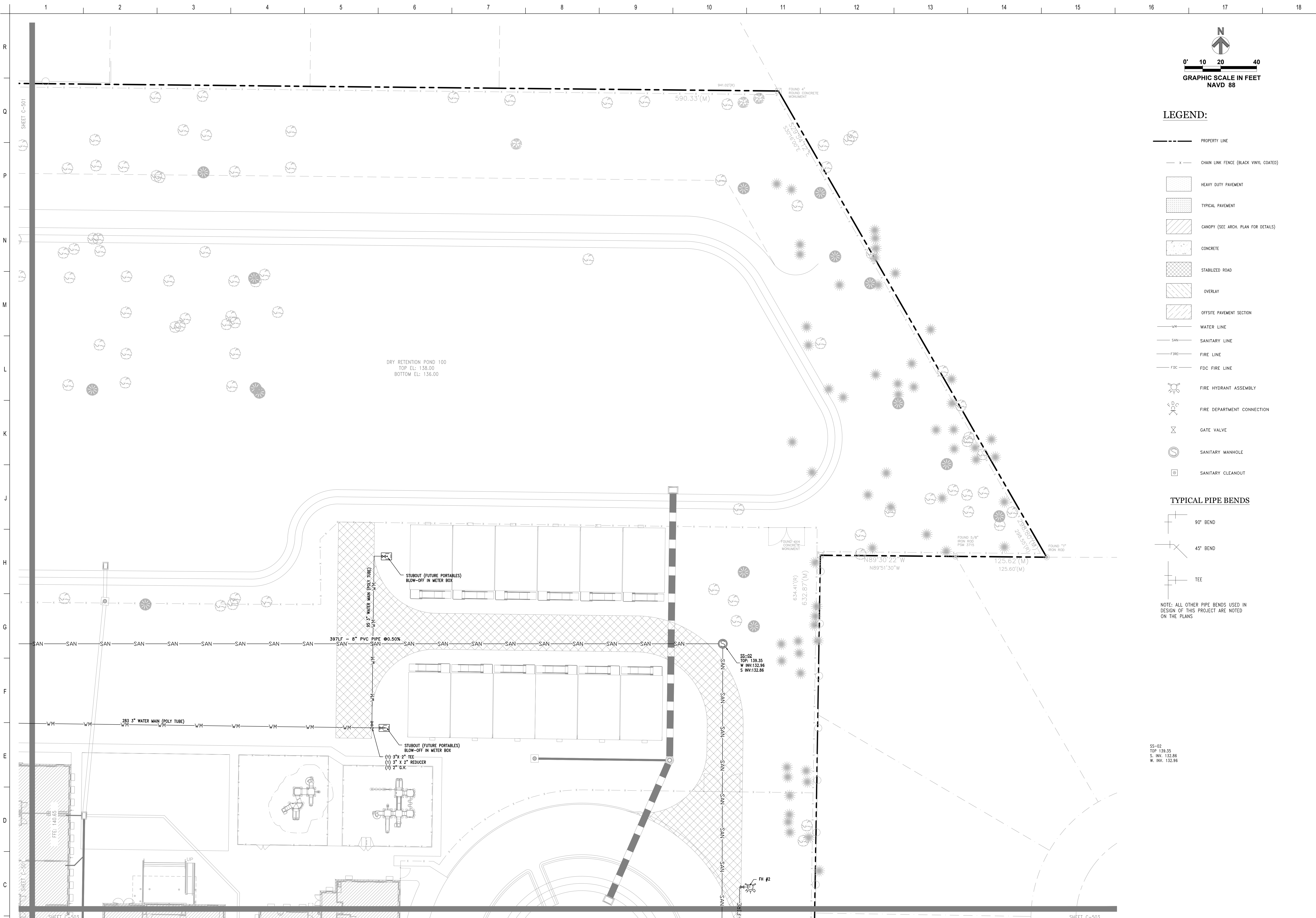
- ① 4" SS SERVICE TO 6" AFTER BUILDING. CONTRACTOR TO PROVIDE FITTINGS. REFER TO PLUMBING PLANS FOR CONTINUATION. INV. 137.46.
- ② 6" PVC SANITARY SERVICE @ 1.00% MIN. TO BUILDING. REFER TO PLUMBING PLANS FOR CONTINUATION. INV. 135.90
- ③ 6" PVC SANITARY SERVICE @ 1.00% MIN. TO BUILDING. REFER TO PLUMBING PLANS FOR CONTINUATION. INV. 134.98.
- ④ 4" FIRE SERVICE FROM FDC. REFER TO FIRE PROTECTION PLANS FOR CONTINUATION AND INVERT AT BUILDING.
- ⑤ 4" FIRE SERVICE. REFER TO FIRE PROTECTION PLANS FOR CONTINUATION AND INVERT AT BUILDING.
- ⑥ 6" FIRE SERVICE. REFER TO FIRE PROTECTION PLANS FOR CONTINUATION AND INVERT AT BUILDING.
- ⑦ 1-1/2" WATER SERVICE TO BUILDING. REFER TO PLUMBING PLANS FOR INVERT AT BUILDING AND CONTINUATION INTO BUILDING
- ⑧ 3" WATER SERVICE TO BUILDING. REFER TO PLUMBING PLANS FOR INVERT AT BUILDING AND CONTINUATION INTO BUILDING

JAY A. KLIMA, P.E.
FL P.E. #49946

1000 S. UNIVERSITY AVENUE, SUITE 100
ALAMONTI SPRINGS, FL 32714
TELEPHONE 407.478.8150
WWW.LITTONWEBER.COM

Klima Weeks
CIVIL ENGINEERING

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LEGEND:

- PROPERTY LINE
- x- CHAIN LINK FENCE (BLACK VINYL COATED)
- [Pattern] HEAVY DUTY PAVEMENT
- [Pattern] TYPICAL PAVEMENT
- [Pattern] CANOPY (SEE ARCH. PLAN FOR DETAILS)
- [Pattern] CONCRETE
- [Pattern] STABILIZED ROAD
- [Pattern] OVERLAY
- [Pattern] OFFSITE PAVEMENT SECTION
- WM WATER LINE
- SAN SANITARY LINE
- FIRE FIRE LINE
- FDC FDC FIRE LINE
- [Symbol] FIRE HYDRANT ASSEMBLY
- [Symbol] FIRE DEPARTMENT CONNECTION
- [Symbol] GATE VALVE
- [Symbol] SANITARY MANHOLE
- [Symbol] SANITARY CLEAOUT

TYPICAL PIPE BENDS

- [Symbol] 90° BEND
- [Symbol] 45° BEND
- [Symbol] TEE

NOTE: ALL OTHER PIPE BENDS USED IN DESIGN OF THIS PROJECT ARE NOTED ON THE PLANS

SS-02
TOP: 139.35
S. INV: 132.86
W. INV: 132.96

SCHENKELSHULTZ
ARCHITECTURE

200 E. Robinson Street
Suite 300
Orlando, FL 32801
voice 407-872-3322
fax 407-872-3303

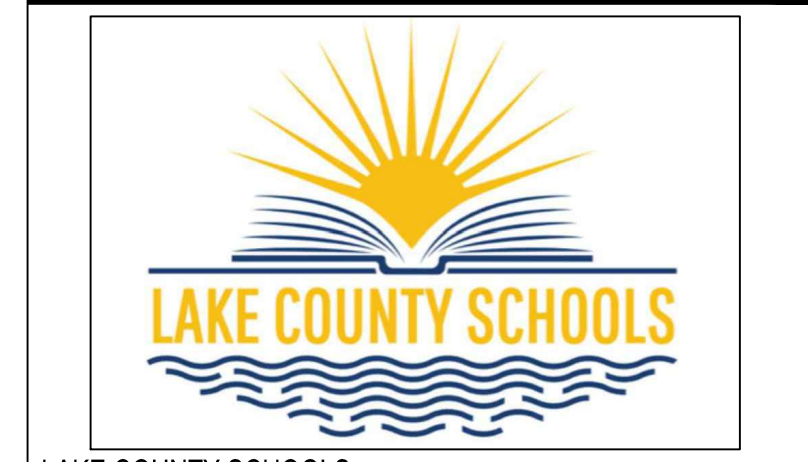
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**FRUITLAND PARK
ELEMENTARY SCHOOL
REPLACEMENT**

Fruitland Park, FL



LAKE COUNTY SCHOOLS
201 WEST BURLEIGH BLVD, TAVARES, FL 32778

ISSUE DATE: 8/16/2023
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UTILITY PLAN

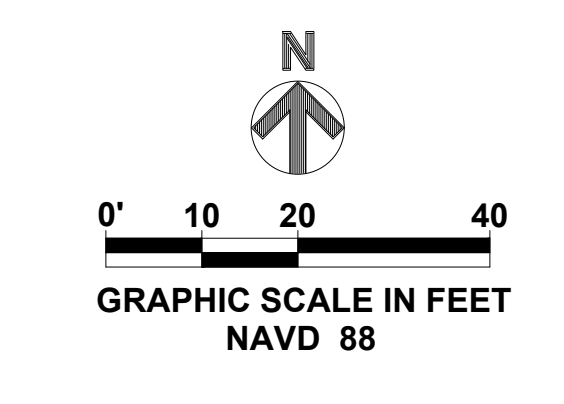
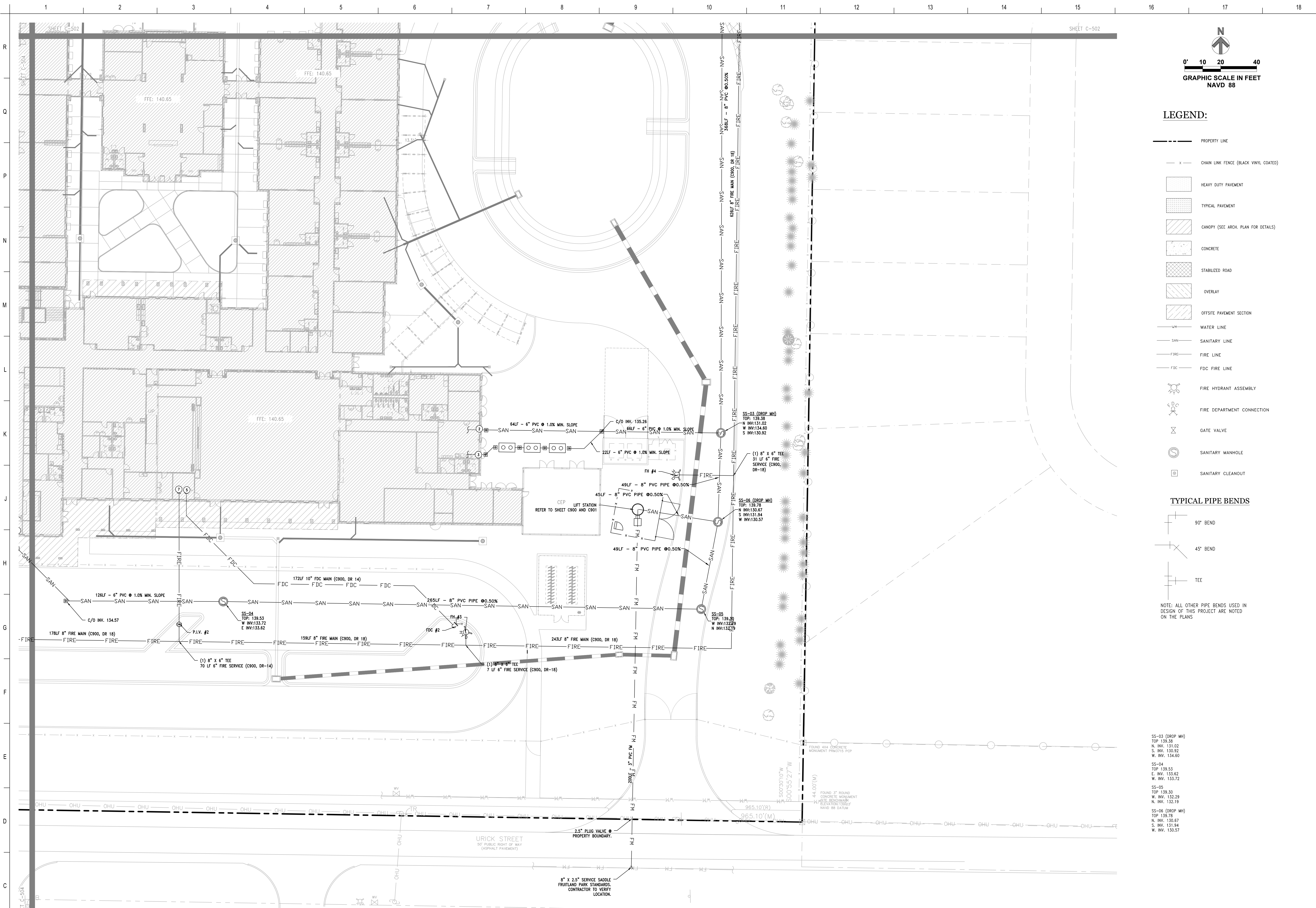
C-502

KEYNOTES - UTILITIES

- ① 4" SS SERVICE TO 6" AFTER BUILDING. CONTRACTOR TO PROVIDE FITTINGS. REFER TO PLUMBING PLANS FOR CONTINUATION. INV. 137.46.
- ② 6" PVC SANITARY SERVICE @ 1.00% MIN. TO BUILDING. REFER TO PLUMBING PLANS FOR CONTINUATION. INV. 135.90
- ③ 6" PVC SANITARY SERVICE @ 1.00% MIN. TO BUILDING. REFER TO PLUMBING PLANS FOR CONTINUATION AND INVERT AT BUILDING. GREASE TRAP SHOWN FOR LOCATION PURPOSES ONLY. REFER TO PLUMBING PLANS FOR GREASE TRAP DETAILS INCLUDING SIZE AND CALCULATIONS. REFER TO PLUMBING PLANS FOR CONNECTION TO BUILDING. INV. 137.15
- ④ 6" PVC SANITARY SERVICE @ 1.00% MIN. TO BUILDING. REFER TO PLUMBING PLANS FOR CONTINUATION. INV. 135.90
- ⑤ 4" PVC SANITARY SERVICE @ 1.00% MIN. TO BUILDING. REFER TO PLUMBING PLANS FOR CONTINUATION. INV. 134.98.
- ⑥ 4" FIRE SERVICE FROM FDC. REFER TO FIRE PROTECTION PLANS FOR CONTINUATION AND INVERT AT BUILDING.
- ⑦ 4" FIRE SERVICE. REFER TO FIRE PROTECTION PLANS FOR CONTINUATION AND INVERT AT BUILDING.
- ⑧ 6" FIRE SERVICE. REFER TO FIRE PROTECTION PLANS FOR CONTINUATION AND INVERT AT BUILDING.
- ⑨ 1-1/2" WATER SERVICE TO BUILDING. REFER TO PLUMBING PLANS FOR INVERT AT BUILDING AND CONTINUATION INTO BUILDING
- ⑩ 3" WATER SERVICE TO BUILDING. REFER TO PLUMBING PLANS FOR INVERT AT BUILDING AND CONTINUATION INTO BUILDING

JAY A. KLIMA, P.E.
FL P.E. #49945

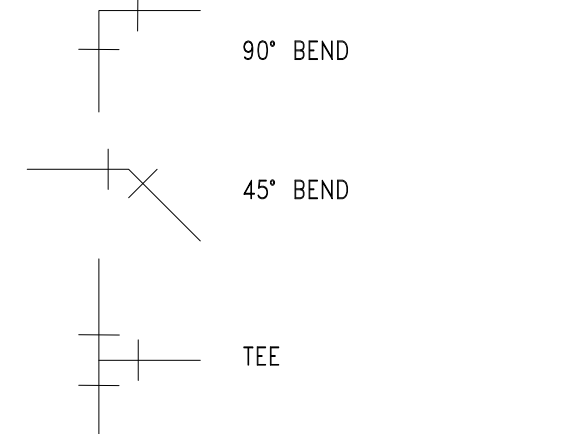




LEGEND:

- PROPERTY LINE
- x- CHAIN LINK FENCE (BLACK VINYL COATED)
- [Pattern] HEAVY DUTY PAVEMENT
- [Pattern] TYPICAL PAVEMENT
- [Pattern] CANOPY (SEE ARCH. PLAN FOR DETAILS)
- [Pattern] CONCRETE
- [Pattern] STABILIZED ROAD
- [Pattern] OVERLAY
- [Pattern] OFFSITE PAVEMENT SECTION
- W/L WATER LINE
- SAN SANITARY LINE
- FIRE FIRE LINE
- FDC FDC FIRE LINE
- [Symbol] FIRE HYDRANT ASSEMBLY
- [Symbol] FIRE DEPARTMENT CONNECTION
- [Symbol] GATE VALVE
- [Symbol] SANITARY MANHOLE
- [Symbol] SANITARY CLEANOUT

TYPICAL PIPE BENDS



NOTE: ALL OTHER PIPE BENDS USED IN DESIGN OF THIS PROJECT ARE NOTED ON THE PLANS

SS-03 (DROP MH)
TOP: 139.36
N. INV. 131.02
S. INV. 130.92
W. INV. 134.60

SS-04
TOP: 139.53
W. INV. 133.72
E. INV. 133.62

SS-05
TOP: 139.30
W. INV. 132.29
N. INV. 132.19

SS-06 (DROP MH)
TOP: 139.78
N. INV. 130.67
S. INV. 131.94
W. INV. 150.57

KEYNOTES - UTILITIES

- ① 4" SS SERVICE TO 6" AFTER BUILDING. CONTRACTOR TO PROVIDE FITTINGS. REFER TO PLUMBING PLANS FOR CONTINUATION. INV. 137.46.
- ② 6" PVC SANITARY SERVICE @ 1.00% MIN. TO BUILDING. REFER TO PLUMBING PLANS FOR CONTINUATION. INV. 135.90
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- ④ 6" PVC SANITARY SERVICE @ 1.00% MIN. TO BUILDING. REFER TO PLUMBING PLANS FOR CONTINUATION. INV. 135.90
- ⑤ 4" PVC SANITARY SERVICE @ 1.00% MIN. TO BUILDING. REFER TO PLUMBING PLANS FOR CONTINUATION AND INVERT AT BUILDING. INV. 134.98.
- ⑥ 4" FIRE SERVICE FROM FDC. REFER TO FIRE PROTECTION PLANS FOR CONTINUATION AND INVERT AT BUILDING.
- ⑦ 4" FIRE SERVICE. REFER TO FIRE PROTECTION PLANS FOR CONTINUATION AND INVERT AT BUILDING.
- ⑧ 6" FIRE SERVICE. REFER TO FIRE PROTECTION PLANS FOR CONTINUATION AND INVERT AT BUILDING.
- ⑨ 1-1/2" WATER SERVICE TO BUILDING. REFER TO PLUMBING PLANS FOR INVERT AT BUILDING AND CONTINUATION INTO BUILDING
- ⑩ 3" WATER SERVICE TO BUILDING. REFER TO PLUMBING PLANS FOR INVERT AT BUILDING AND CONTINUATION INTO BUILDING

SCHENKELSHULTZ
ARCHITECTURE

200 E. Robinson Street
Suite 300
Orlando, FL 32801
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fax 407-872-3303

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REVISIONS		
MARK	DESCRIPTION	DATE

FRUITLAND PARK ELEMENTARY SCHOOL REPLACEMENT

Fruitland Park, FL

LAKE COUNTY SCHOOLS
201 WEST BURLINGHAM BLVD, TAVARES, FL 32778

ISSUE DATE: 8/16/2023
COMM. NO.: 2023100

DRAWN BY: JDO CHECKED BY: JAK

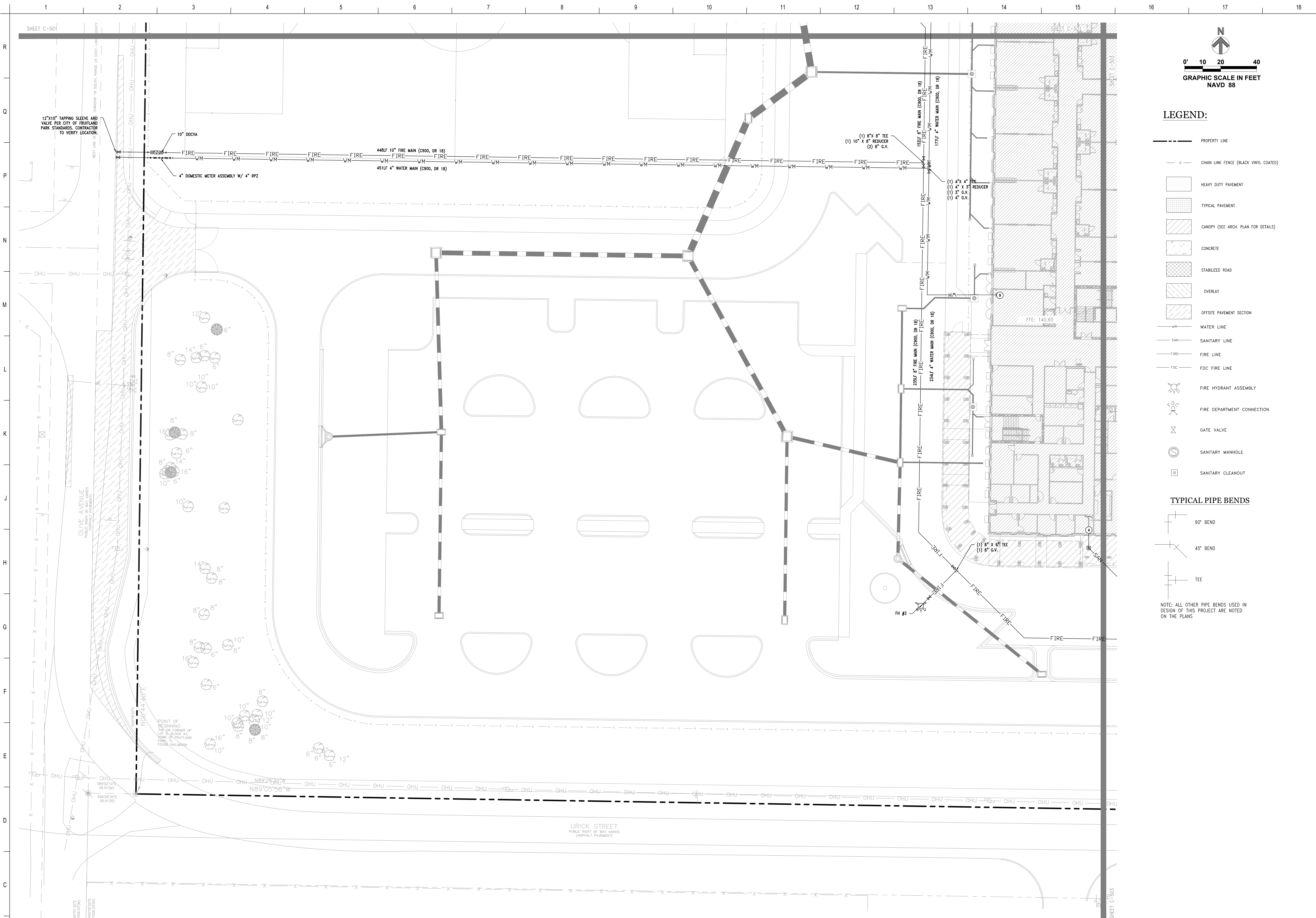
8750 S.W. 11th Avenue, Suite 100
Alamonte Springs, FL 32714
Telephone 407.478.8150
www.klimaweeks.com

Klima Weeks
CIVIL ENGINEERING

JAY A. KLIMA, P.E.
FL P.E. #49646

C-503

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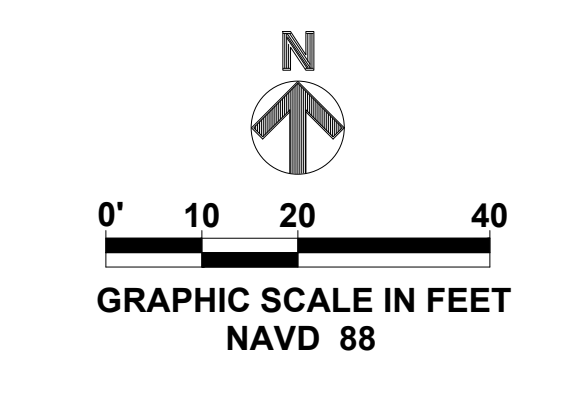


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LEGEND:

- PROPERTY LINE
 - x- CHAIN LINK FENCE (BLACK VINYL COATED)
 - HEAVY DUTY PAVEMENT
 - TYPICAL PAVEMENT
 - CANOPY (SEE ARCH. PLAN FOR DETAILS)
 - CONCRETE
 - STABILIZED ROAD
 - OVERLAY
 - OFFSITE PAVEMENT SECTION
 - WM WATER LINE
 - SAN SANITARY LINE
 - FIRE FIRE LINE
 - FDC FIRE LINE
 - FIRE HYDRANT ASSEMBLY
 - FIRE DEPARTMENT CONNECTION
 - GATE VALVE
 - SANITARY MANHOLE
 - SANITARY CLEANOUT
- TYPICAL PIPE BENDS**
- 90° BEND
 - 45° BEND
 - TEE
- NOTE: ALL OTHER PIPE BENDS USED IN DESIGN OF THIS PROJECT ARE NOTED ON THE PLANS

REVISIONS

MARK	DESCRIPTION	DATE

KEYNOTES - UTILITIES

- ① 4" SS SERVICE TO 6" AFTER BUILDING. CONTRACTOR TO PROVIDE FITTINGS. REFER TO PLUMBING PLANS FOR CONTINUATION. INV. 137.46.
- ② 6" PVC SANITARY SERVICE @ 1.00% MIN. TO BUILDING. REFER TO PLUMBING PLANS FOR CONTINUATION. INV. 135.90
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- ④ 6" PVC SANITARY SERVICE @ 1.00% MIN. TO BUILDING. REFER TO PLUMBING PLANS FOR CONTINUATION. INV. 135.90
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- ⑧ 6" FIRE SERVICE. REFER TO FIRE PROTECTION PLANS FOR CONTINUATION AND INVERT AT BUILDING.
- ⑨ 1-1/2" WATER SERVICE TO BUILDING. REFER TO PLUMBING PLANS FOR INVERT AT BUILDING AND CONTINUATION INTO BUILDING
- ⑩ 3" WATER SERVICE TO BUILDING. REFER TO PLUMBING PLANS FOR INVERT AT BUILDING AND CONTINUATION INTO BUILDING

**FRUITLAND PARK
 ELEMENTARY SCHOOL
 REPLACEMENT**

Fruitland Park, FL



ISSUE DATE: 8/16/2023
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UTILITY PLAN

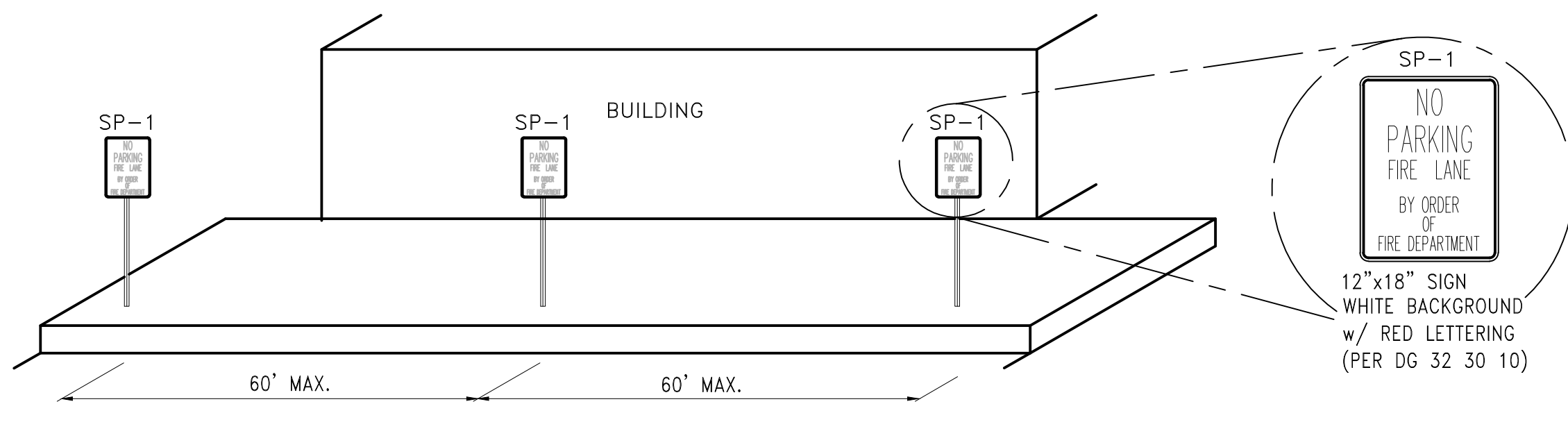
C-504

WEST ORANGE AVENUE, STE. 100
 ALA-MONTE SPRINGS, FL 32714
 TELEPHONE 407.478.8150
 FAX 407.478.8151
 WWW.KLIMAWEEKS.COM

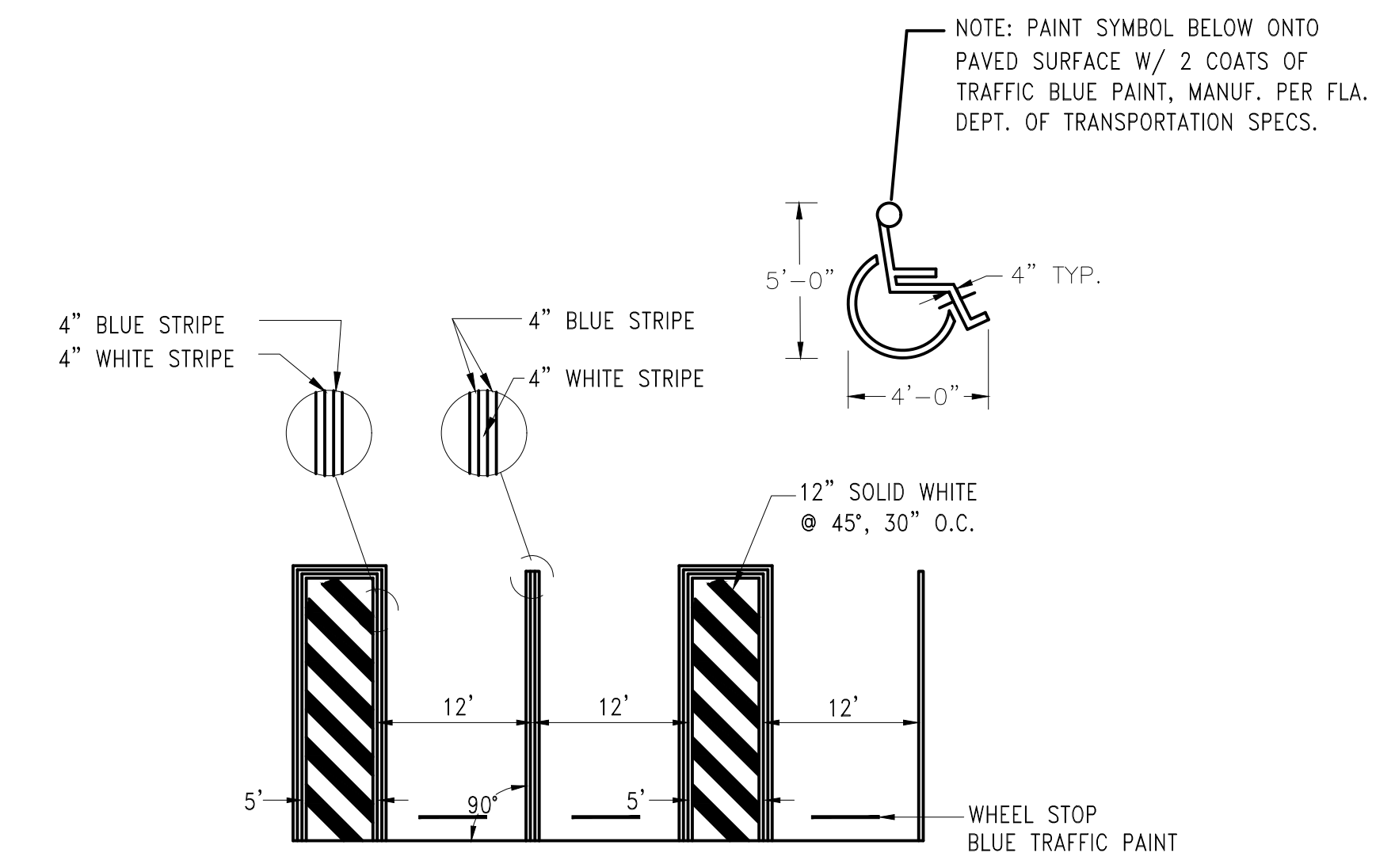
**Klima
 Weeks**
 CIVIL ENGINEERING

JAY A. KLIMA, P.E.
 FL P.E. #49946

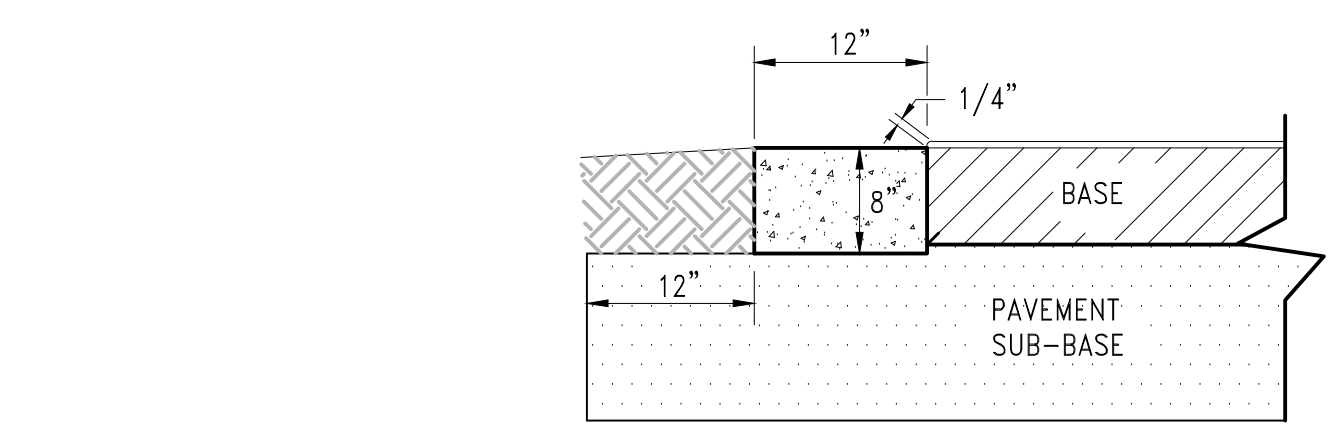
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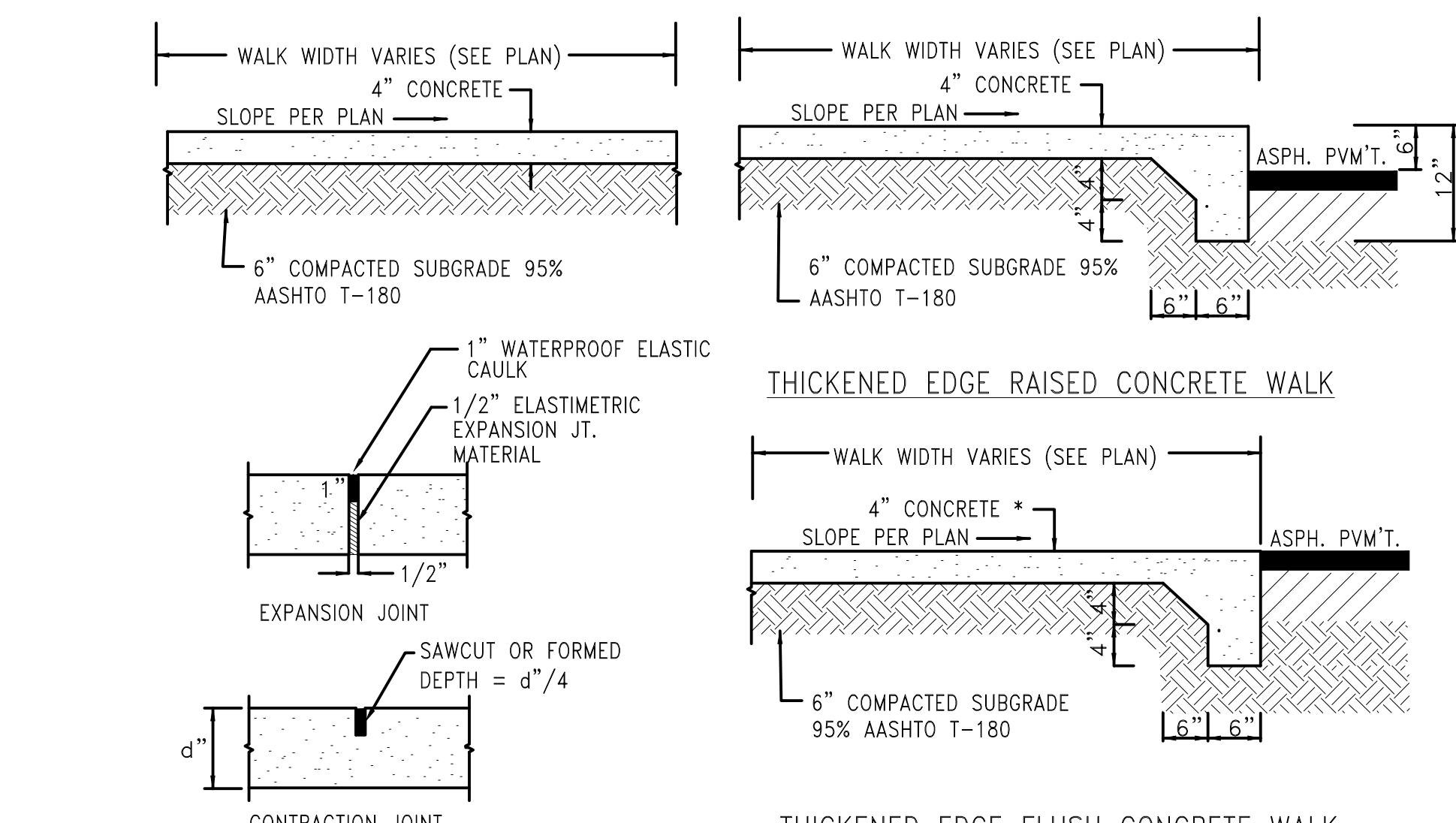
FIRE LANE DETAIL
N.T.S.



ADA PARKING DETAILS
N.T.S.



STANDARD CONCRETE RIBBON CURB
N.T.S.



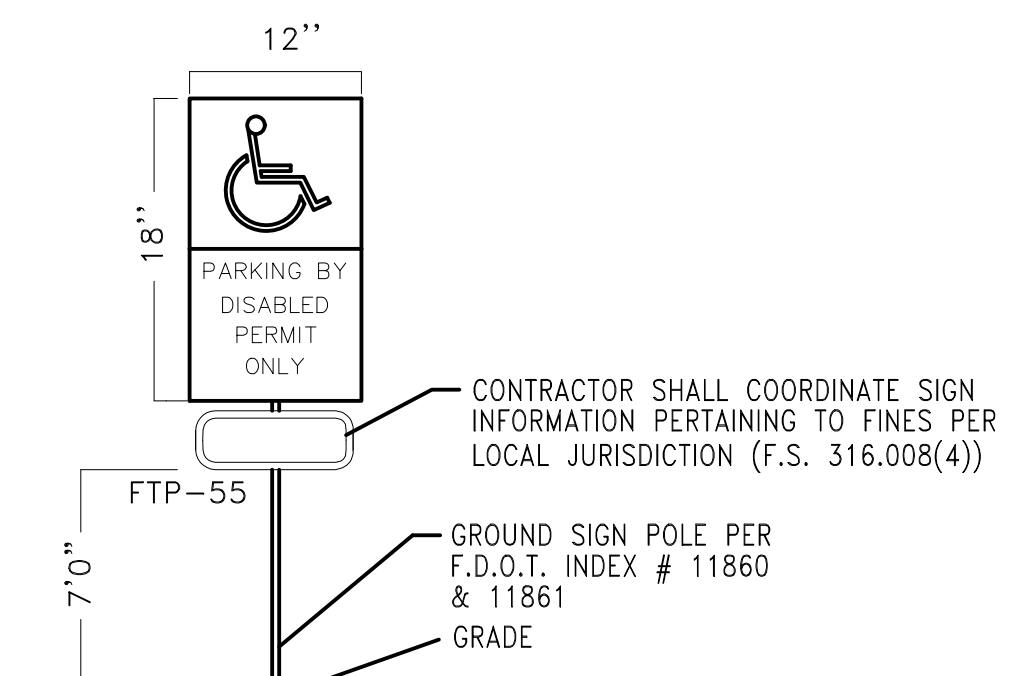
THICKENED EDGE RAISED CONCRETE WALK

THICKENED EDGE FLUSH CONCRETE WALK

CONCRETE WALK DETAILS
N.T.S.

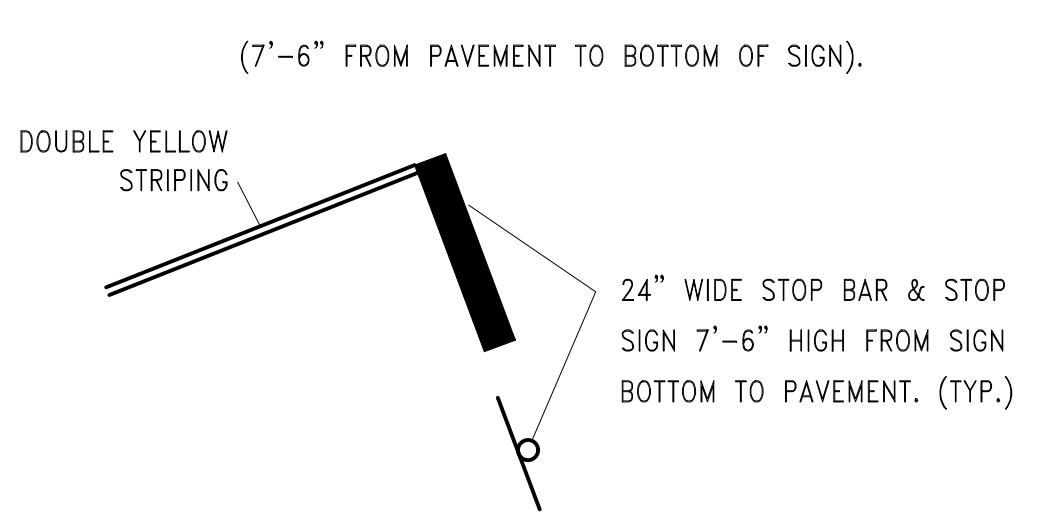
NOTE:
1. ALL CONCRETE SIDEWALKS SHALL HAVE A FULL 1/2" EXPANSION JOINT AT A MAXIMUM DISTANCE OF 40 LINEAR FEET AND A SAW CUT OR FORMED DUMMY CONTRACTION JOINT AT EVENLY SPACED INTERVALS NOT TO EXCEED 8 LINEAR FEET.
2. CONTR. SHALL PROVIDE A MINIMUM OF 5 FT. ON EITHER SIDE OF WALKS ADJACENT TO GRASS AREAS THAT HAVE A MAX. SLOPE OF 3% DOWNWARD.

NOTE: 4" THICK SIDEWALK W/LIGHT BROOM FINISH & TROWELED EDGE.

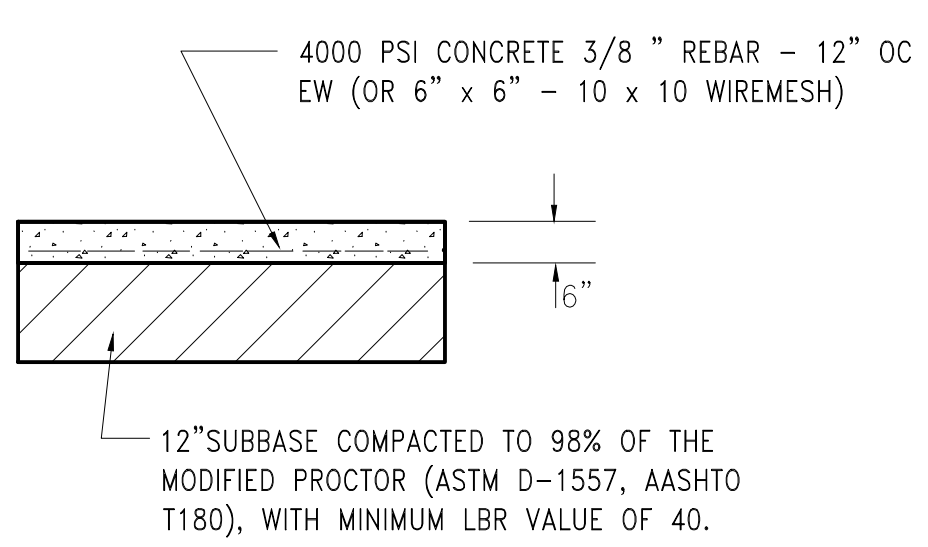


- CONTRACTOR SHALL COORDINATE SIGN INFORMATION PERTAINING TO FINES PER LOCAL JURISDICTION (F.S. 316.008(4))
- GROUND SIGN POLE PER F.D.O.T. INDEX # 11860 & 11861 GRADE
- NOTES:
1. TOP PORTION OF FTP 25 & 26 SHALL HAVE A REFLECTIVE SYMBOL AND BORDER.
2. BOTTOM PORTION SHALL HAVE A REFLECTIVE WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER.
3. FTP 25 & 26 MAY BE FABRICATED ON ONE PANEL OR TWO.
4. FTP 25 MAY BE SUBSTITUTED FOR THE FTP 26 IN AREAS WHERE SPACE IS LIMITED.
5. SIGNS ARE TO BE MOUNTED AT STANDARD HEIGHT.

ADA PARKING SIGN - DETAIL
N.T.S.



STOP SIGN & STOP BAR DETAIL
N.T.S.

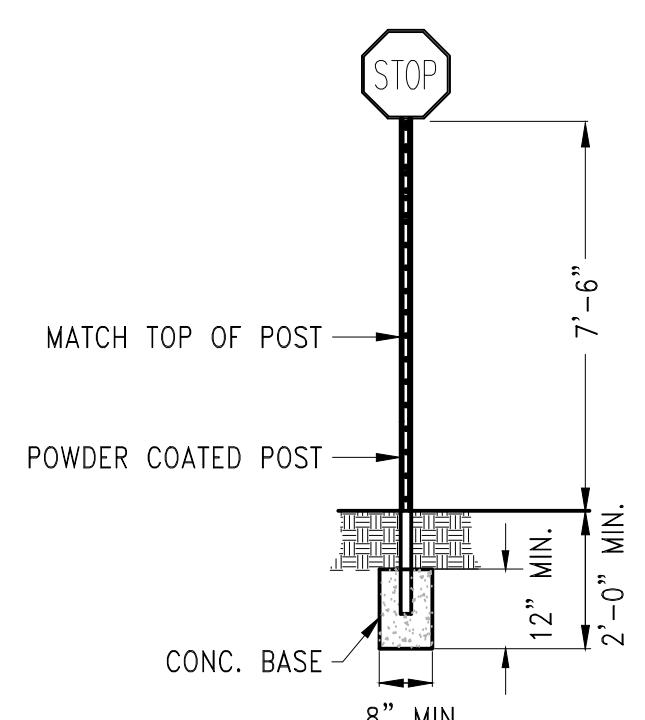


DUMPSTER PAD SECTION
N.T.S.

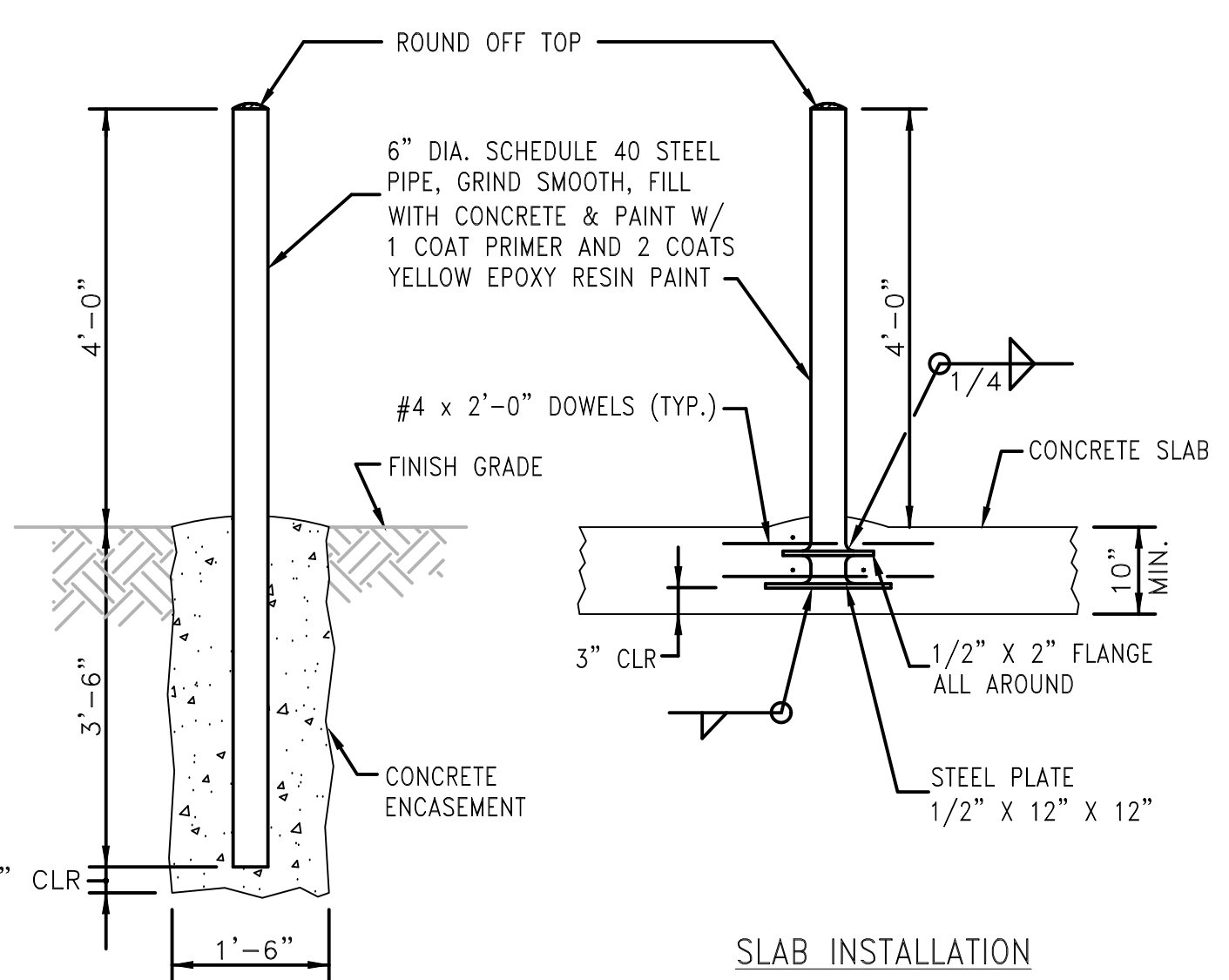
- NOTES:
1. ALL CONCRETE PAVEMENT SHALL HAVE A FULL, 1/2" ISOLATION JOINT WHERE IT ABUTS EXISTING CONCRETE PAVEMENT AND OTHER RIGID STRUCTURES, SUCH AS BUILDING FOUNDATIONS AND WALLS. PROVIDE 2" SAW CUT OR DUMMY CONTRACTION JOINT AT EVENLY SPACED INTERVALS NOT TO EXCEED 20 FEET.
2. PORTLAND CEMENT CONCRETE PAVEMENT TO BE 4,000-PSI COMPRESSIVE STRENGTH, MIN.

CONCRETE PAVEMENT DETAIL
N.T.S.

- NOTES:
1. SEE PLANS FOR SIGNAGE TYPES AND LOCATIONS
2. SIGNAGE TO CONFORM TO FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.



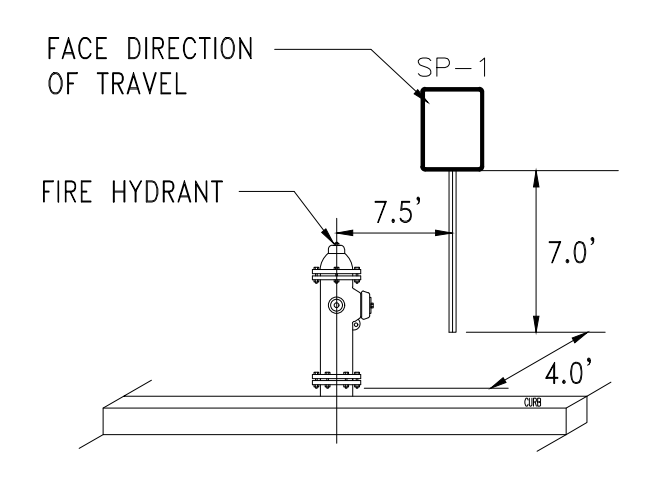
SIGN DETAIL
N.T.S.



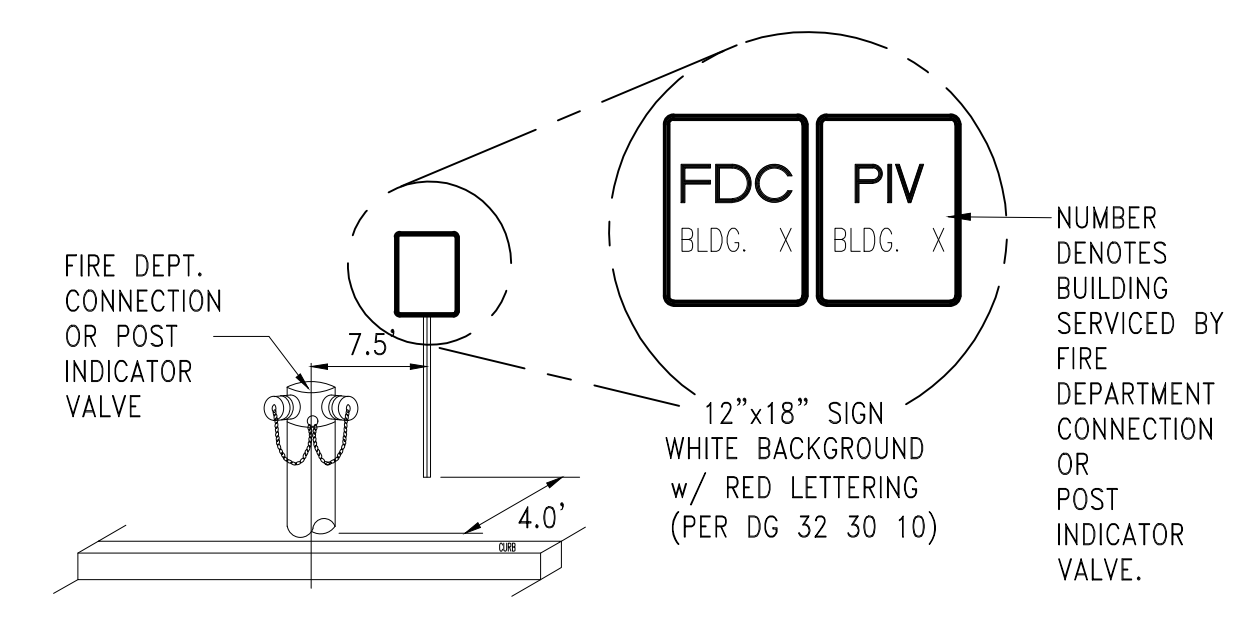
SLAB INSTALLATION

EARTHEN INSTALLATION

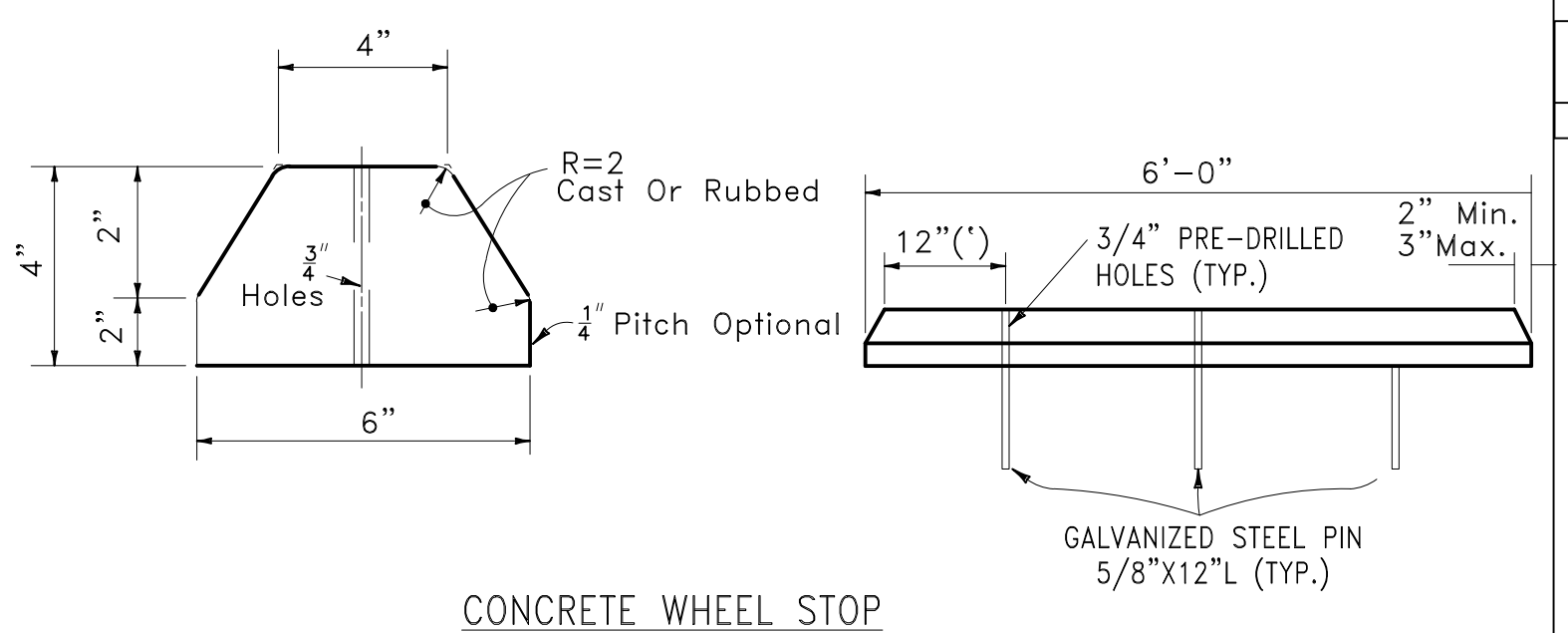
BOLLARD DETAIL
N.T.S.



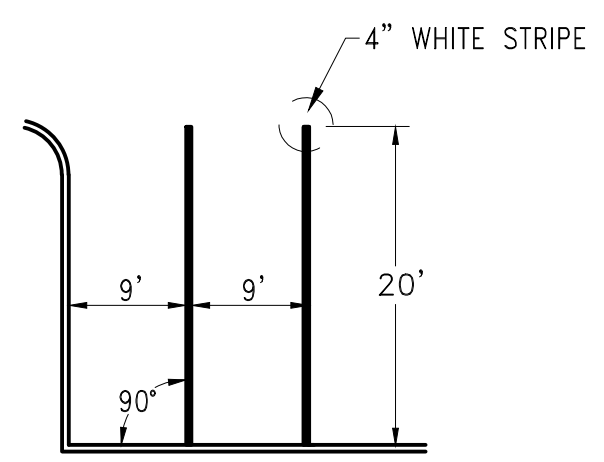
FIRE HYDRANT MARKING DETAIL
N.T.S.



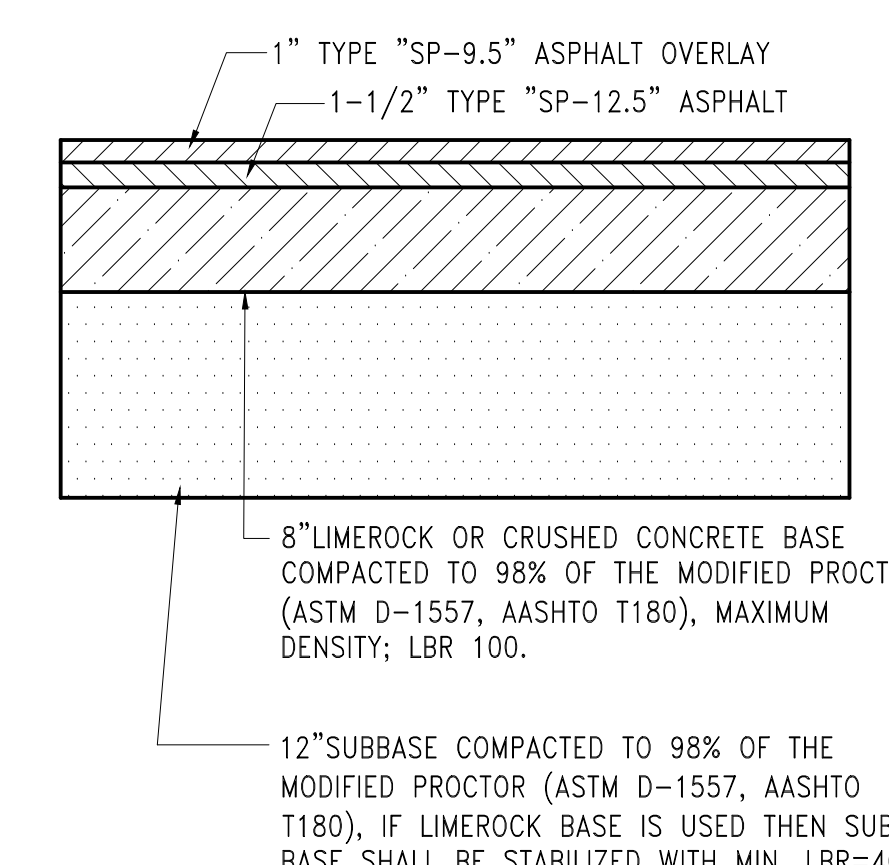
FIRE DEPT. CONNECTION / POST INDICATOR VALVE DETAIL
N.T.S.



CONCRETE WHEEL STOP

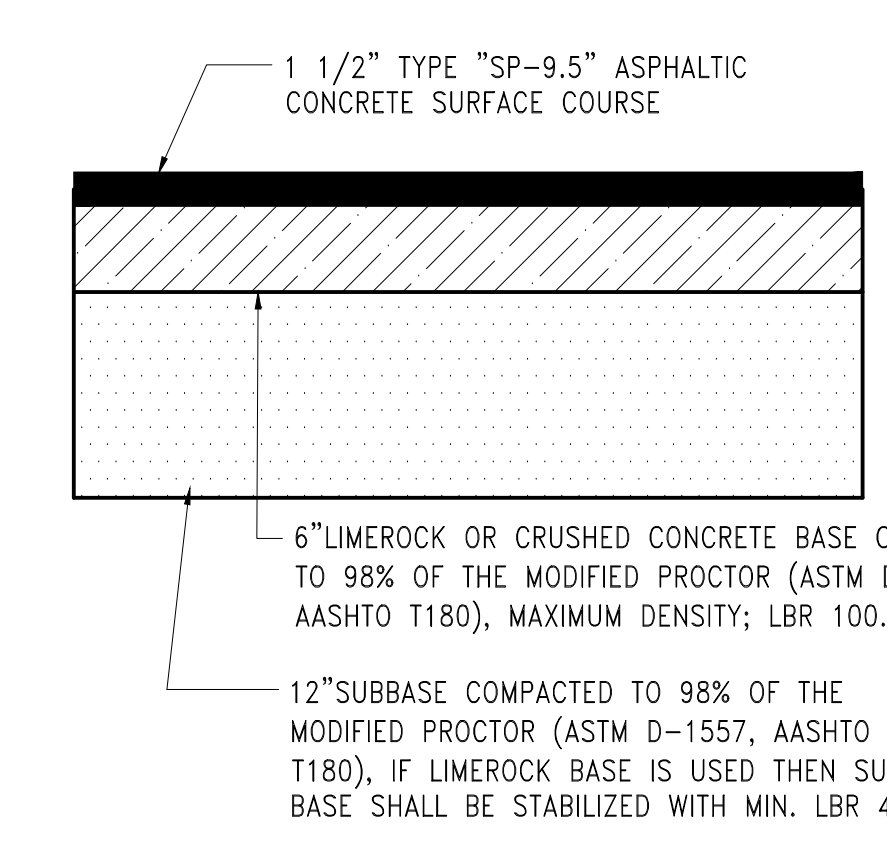


TYPICAL PARKING STALL STRIPING DETAIL
N.T.S.



HEAVY DUTY PAVEMENT SECTION
N.T.S.

NOTE:
1 - IN LIEU OF LIMEROCK BASE, A 6" CRUSHED CONCRETE BASE CAN BE UTILIZED WITH SAME COMPACTION REQUIREMENTS, LBR 120. CRUSHED CONCRETE SHALL MEET GRADATION REQUIREMENTS OF FDOT SPEC SECTION 204.
2 - TYPE ASPHALTIC CONCRETE SHALL USE ASPHALT BINDER GRADE PG67-22 AND NO MORE THAN 15 PERCENT RECYCLED ASPHALT PAVEMENT (RAP) AGGREGATE.



TYPICAL PAVEMENT SECTION
N.T.S.

NOTE:
1 - IN LIEU OF LIMEROCK BASE, A 6" CRUSHED CONCRETE BASE CAN BE UTILIZED WITH SAME COMPACTION REQUIREMENTS, LBR 120. CRUSHED CONCRETE SHALL MEET GRADATION REQUIREMENTS OF FDOT SPEC SECTION 204.
2 - TYPE ASPHALTIC CONCRETE SHALL USE ASPHALT BINDER GRADE PG67-22 AND NO MORE THAN 15 PERCENT RECYCLED ASPHALT PAVEMENT (RAP) AGGREGATE.

3800 S.W. 10TH AVENUE, SUITE 101
ALAMONTE SPRINGS, FL 32714
TELEPHONE 407-478-8558
WWW.KLIMAWEEKS.COM

Klima Weeks
CIVIL ENGINEERING

JAY A. KLIMA, P.E.
FL P.E. #49465

SCHENKELSHULTZ
ARCHITECTURE

200 E. Robinson Street
Suite 300
Orlando, FL 32801
voice 407-872-3322
fax 407-872-3303

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MARK	DESCRIPTION	DATE

**FRUITLAND PARK
ELEMENTARY SCHOOL
REPLACEMENT**

Fruitland Park, FL

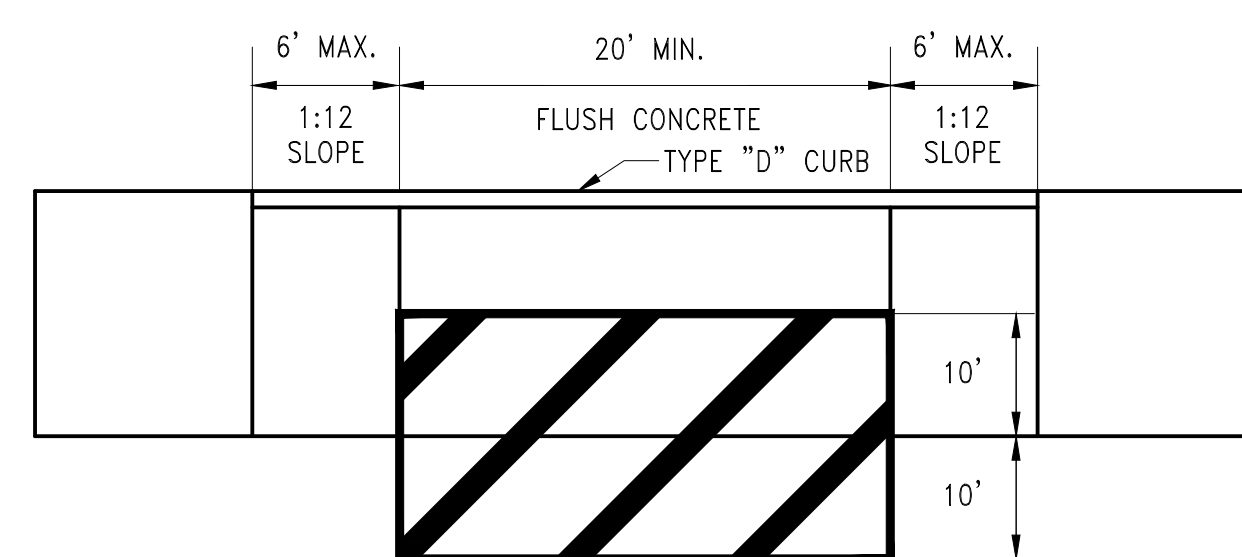


LAKE COUNTY SCHOOLS
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SITE DETAILS

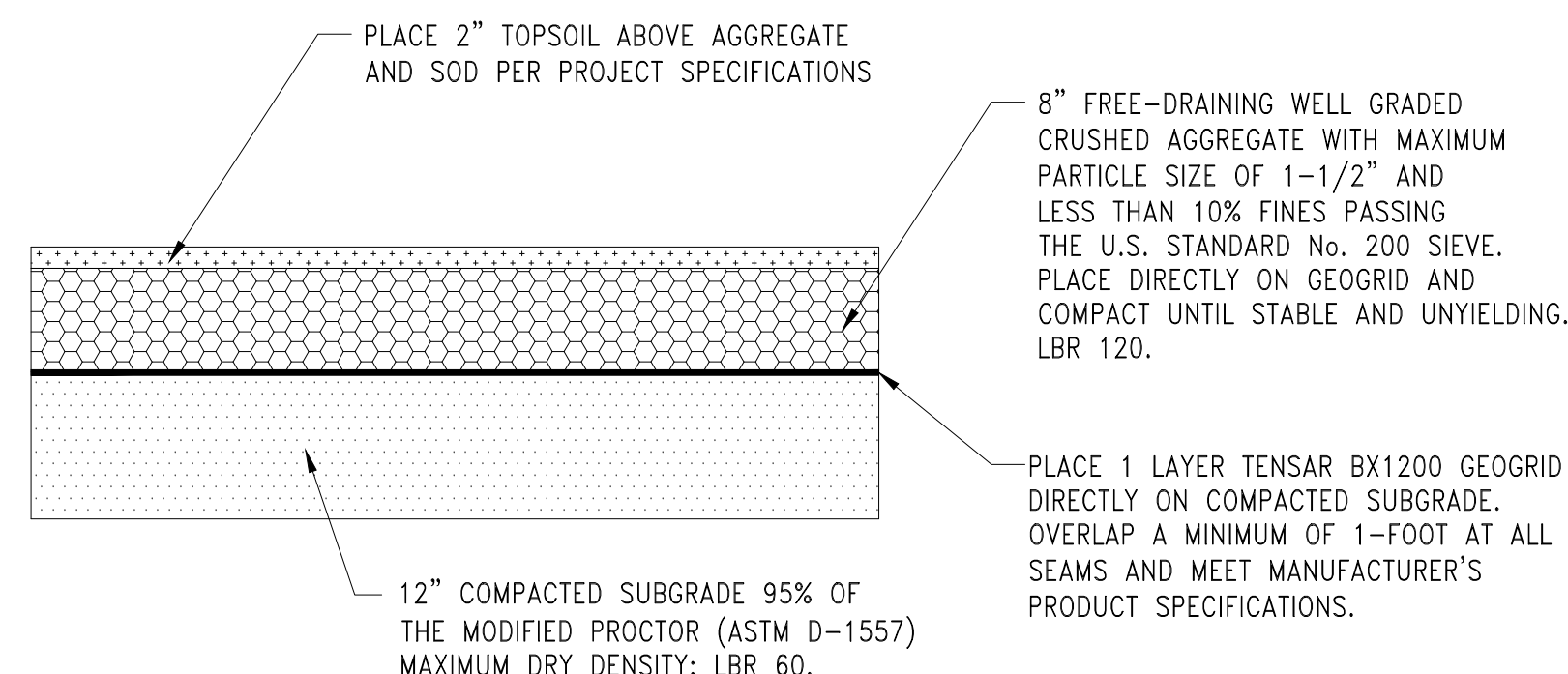
C-600



NOTE:
6' RAMP, 20' FLUSH LOADING ZONE w/ 4" SOLID YELLOW TRAFFIC PAINT BORDER AND 12" SOLID YELLOW STRIPE @ 45°, 5' O.C. (TYP.)

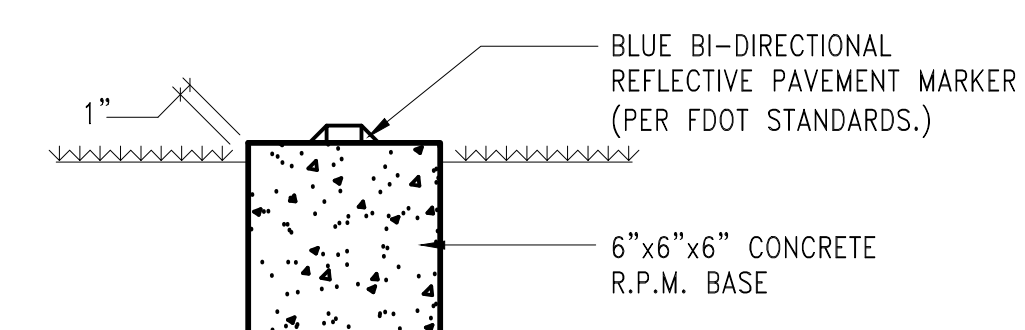
TYPE "D" CURBING ALONG BACK OF LOADING ZONE

LOADING ZONE DETAIL
N.T.S.



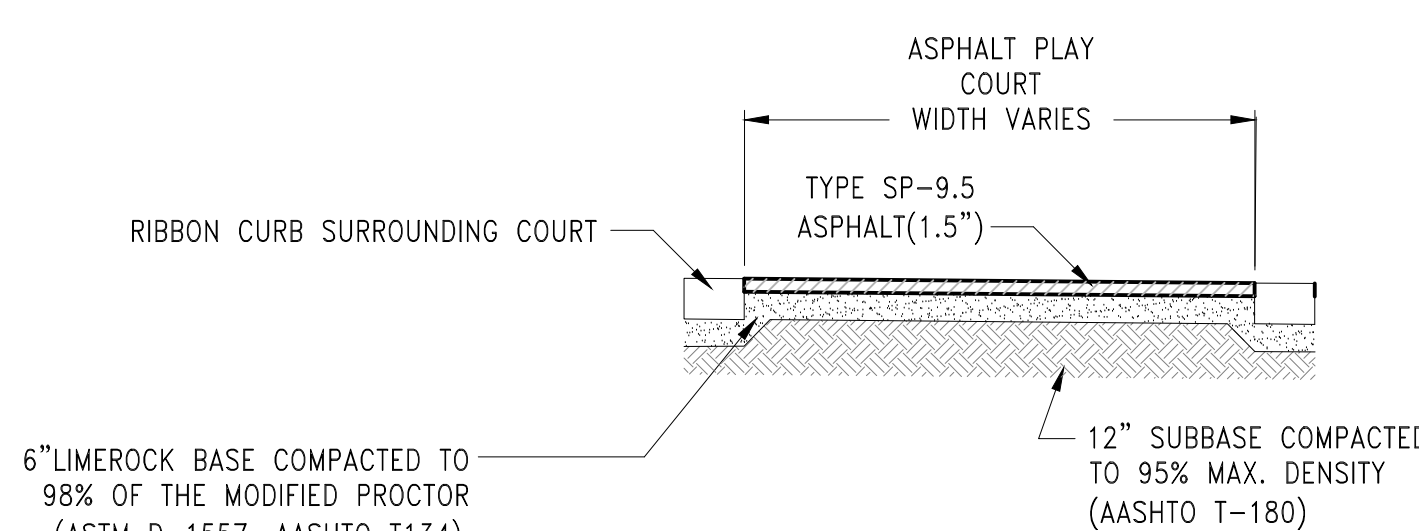
NOTE:
1. ACCESS ROAD SECTION SHALL BE CONSTRUCTED IN (3) LIFTS. EACH LIFT SHALL BE TESTED FOR DENSITY VALUES EVERY 250LF.
2. ACCESS ROAD SHALL SUPPORT A VEHICLE WEIGHT OF 42 TONS.
3. EMERGENCY ACCESS ROADS SHALL HAVE 12" X 18" "NO PARKING - FIRE LANE" SIGNS FACING ONCOMING TRAFFIC AS SHOWN.

STABILIZED DRIVE
N.T.S. (EMERGENCY ACCESS ROAD)



NOTE:
1). 50' O.C. (25' O.C. ON CORNERS)

EMERGENCY ACCESS MARKER DETAIL
N.T.S.



ASPHALT PLAY COURT SECTION
N.T.S.

REVISIONS

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**FRUITLAND PARK
ELEMENTARY SCHOOL
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201 WEST BURLEIGH BLVD, TAVARES, FL 32778

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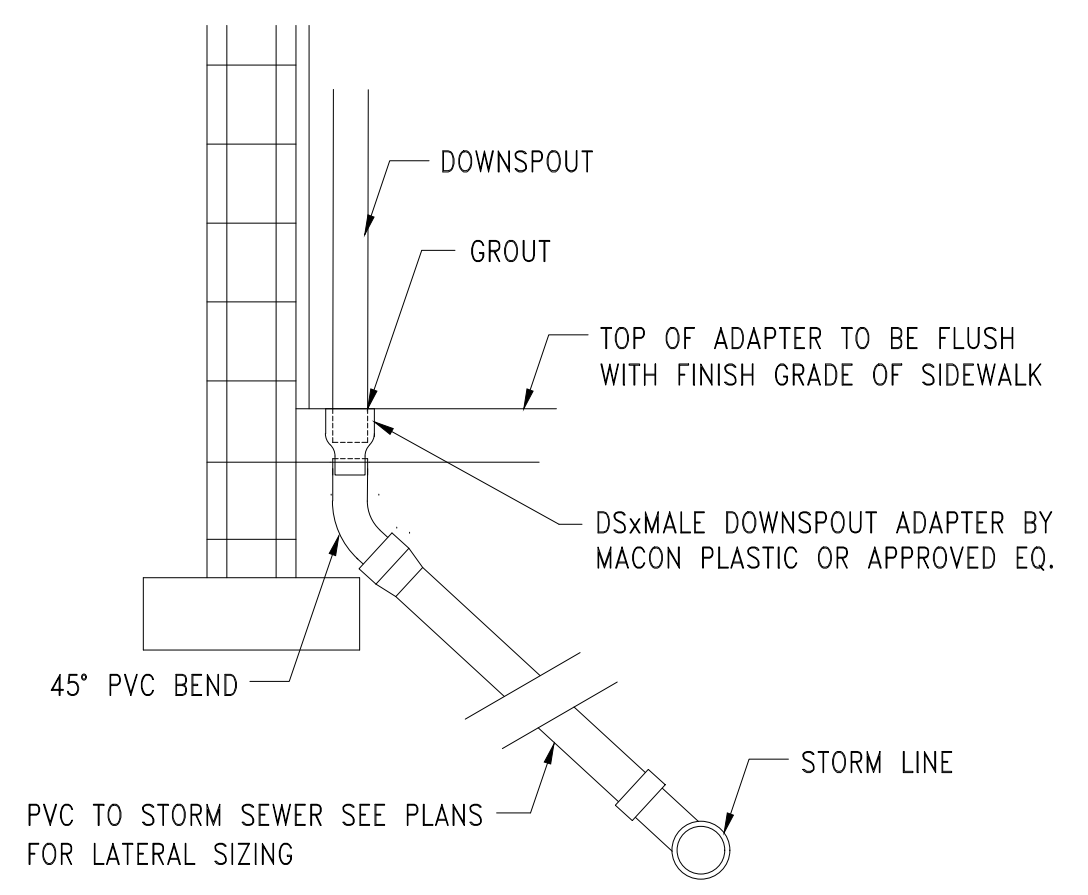
JAY A. KLIMA, P.E.
FL P.E. #49945

WEST CHESAPEAKE AVENUE, STE. 200
ALAMONTI SPRINGS, FL 32714
TELEPHONE 407.478.8250
WWW.HITCONCRETE.COM

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Weeks**
CIVIL ENGINEERING

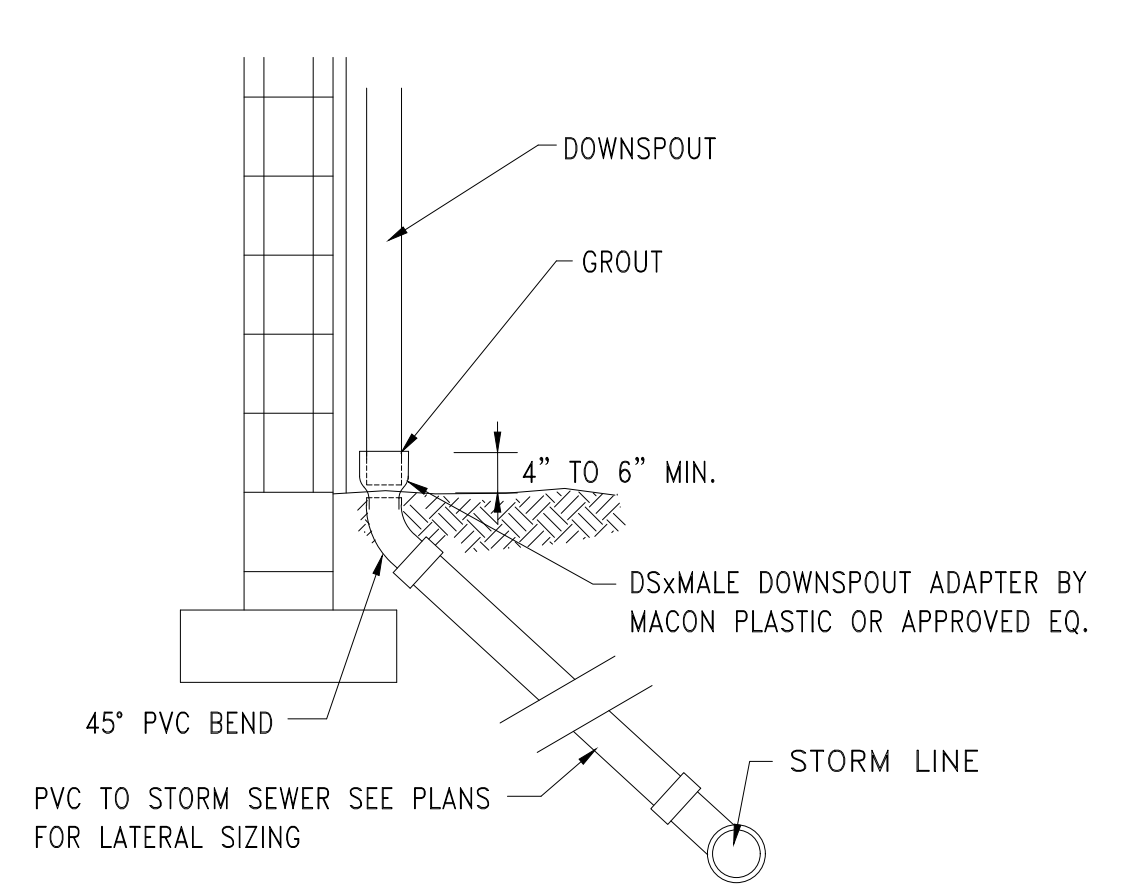
SITE DETAILS

C-601



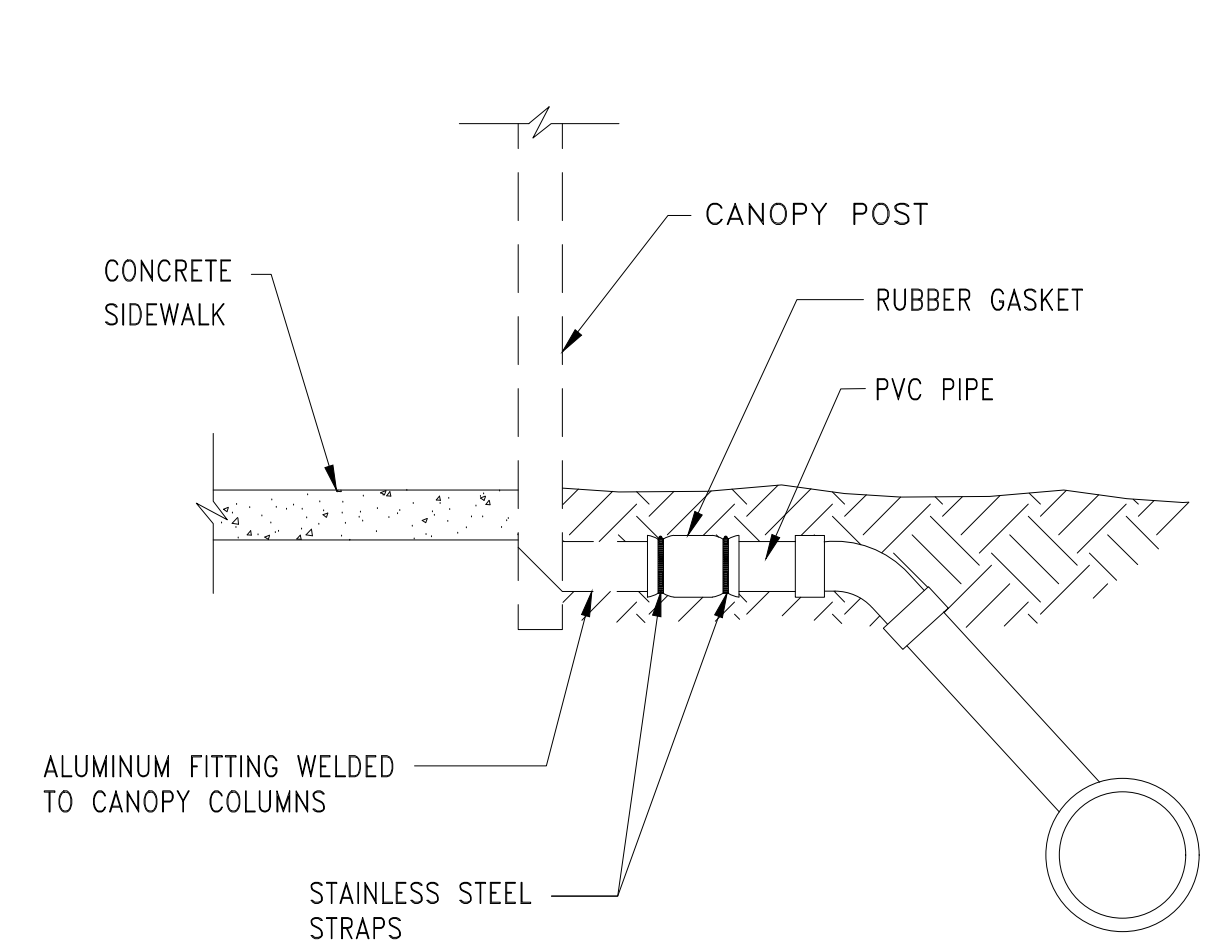
- NOTES:
1. VERIFY THAT THERE ARE NO CONFLICTS WITH BUILDING/WALK FOUNDATION. PROVIDE FITTINGS AS REQUIRED TO MITIGATE CONFLICT.
 2. ENSURE THAT CENTERLINE OF HUB MATCHES CENTERLINE OF DOWNSPOUT AT JUNCTION.
 3. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.

DOWNSPOUT CONNECTION DETAIL IN SIDEWALK
N.T.S.

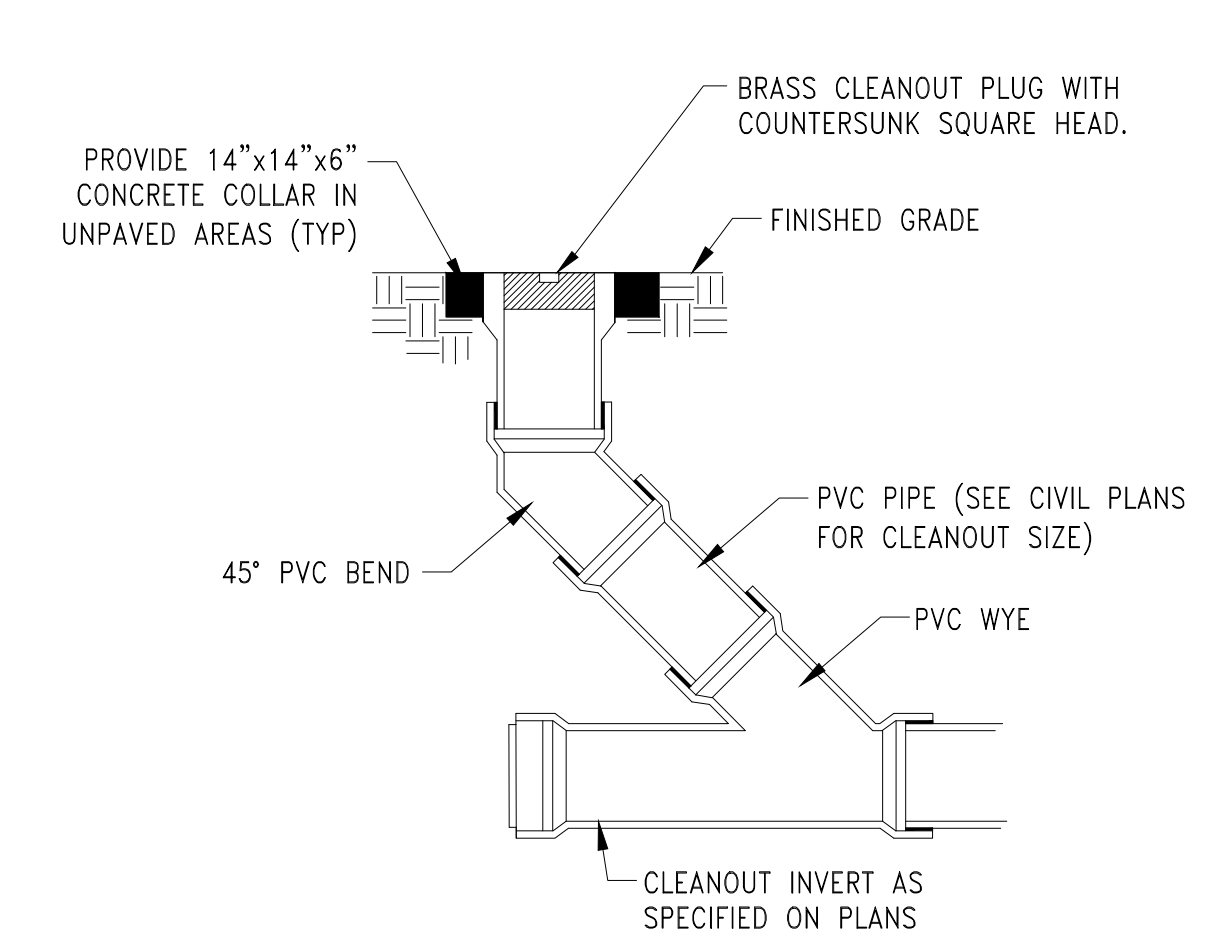


- NOTES:
1. VERIFY THAT THERE ARE NO CONFLICTS WITH BUILDING/WALK FOUNDATION. PROVIDE FITTINGS AS REQUIRED TO MITIGATE CONFLICT.
 2. ENSURE THAT CENTERLINE OF HUB MATCHES CENTERLINE OF DOWNSPOUT AT JUNCTION.
 3. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.

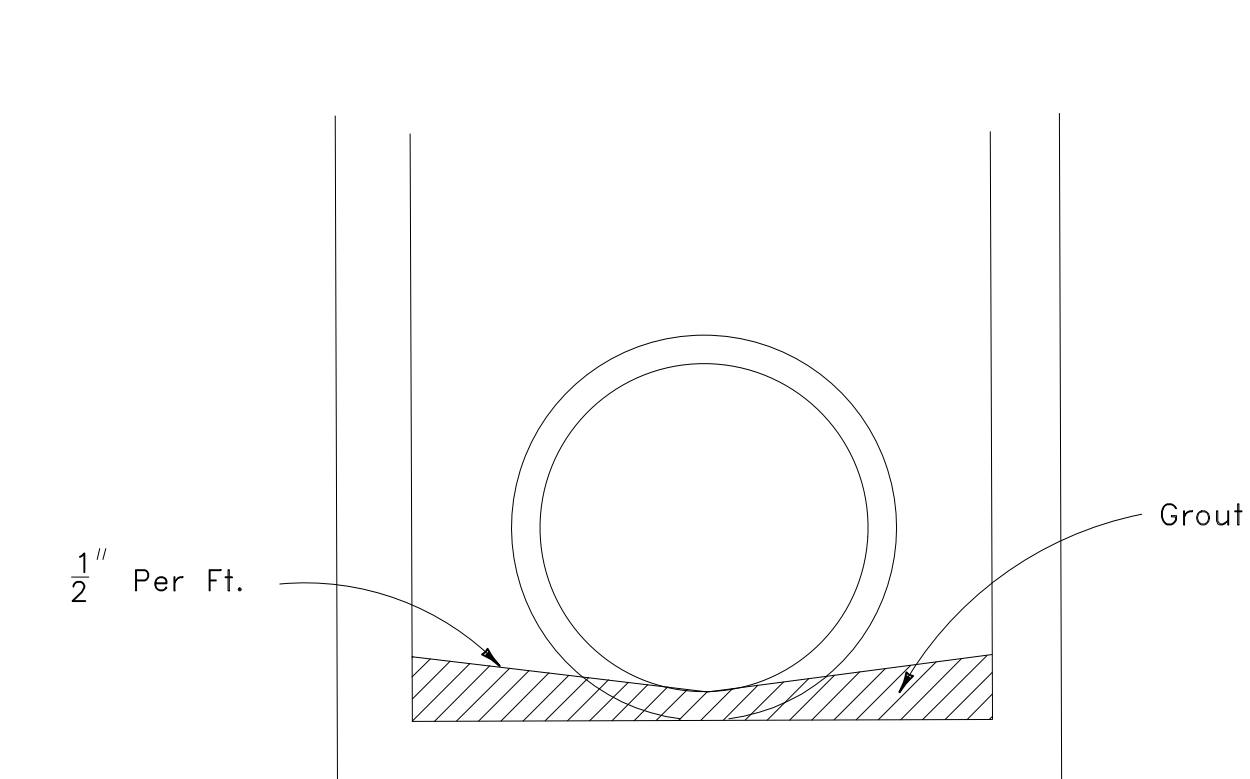
DOWNSPOUT CONNECTION DETAIL IN GRASS
N.T.S.



CANOPY CONNECTION DETAIL
N.T.S.

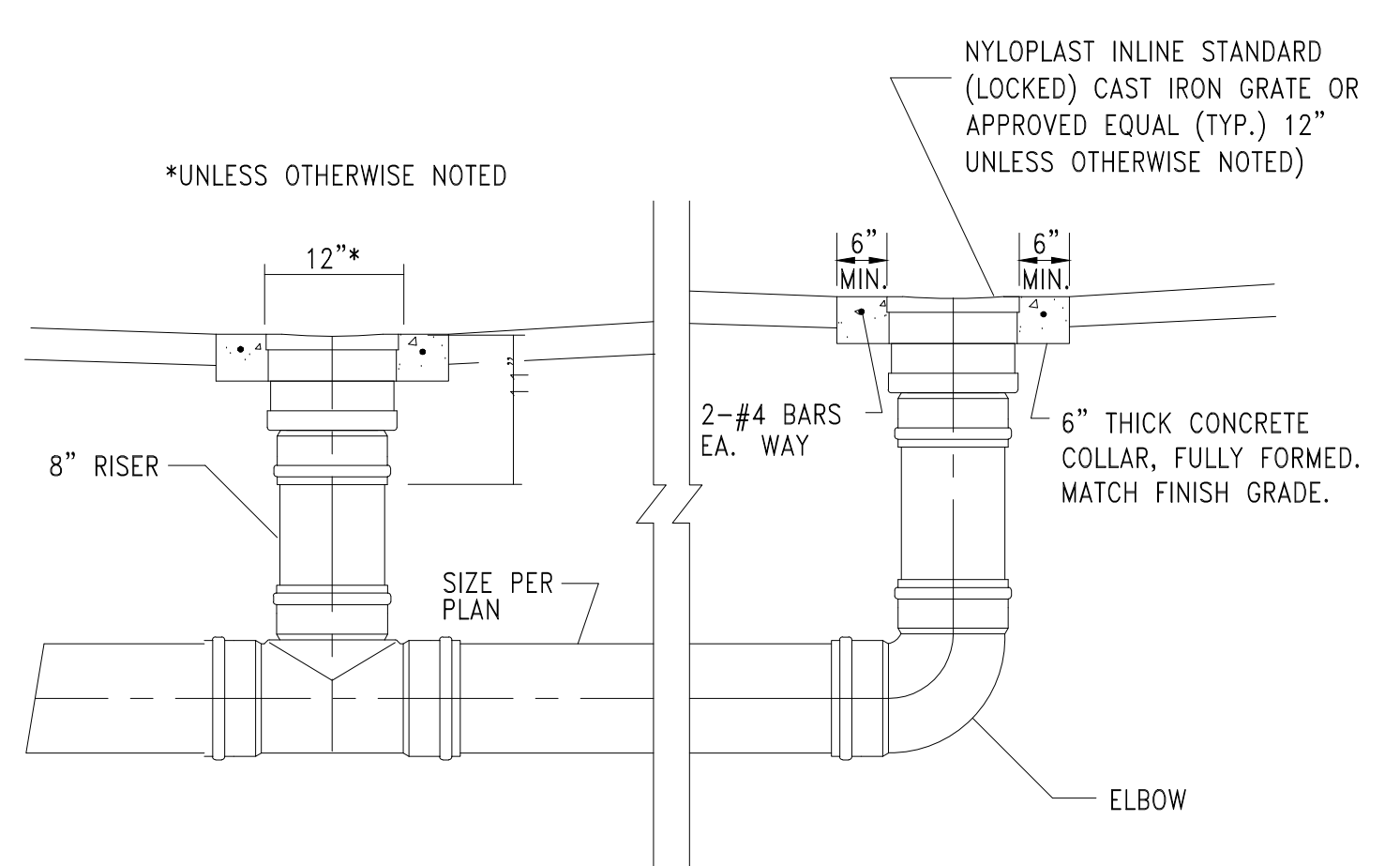


STORM CLEANOUT DETAIL
N.T.S.

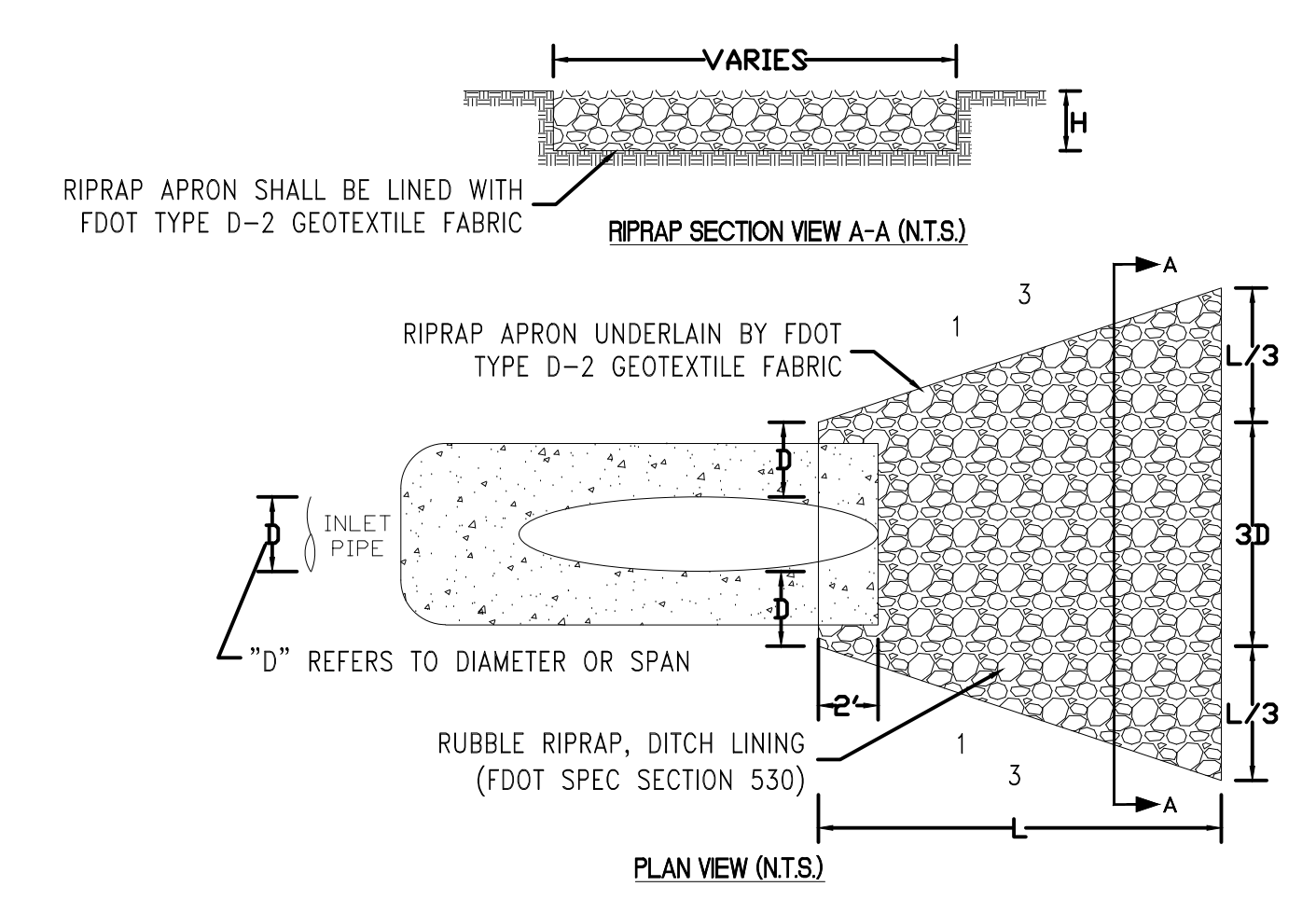


NOTE: GROUT TO CONSIST OF 3:1 SAND-CEMENT MIXTURE OR ANY CLASS CONCRETE. FOR ALL STRUCTURES UNLESS EXCLUDED BY SPECIAL DETAIL.

DRAINAGE STRUCTURE INVERT
N.T.S.

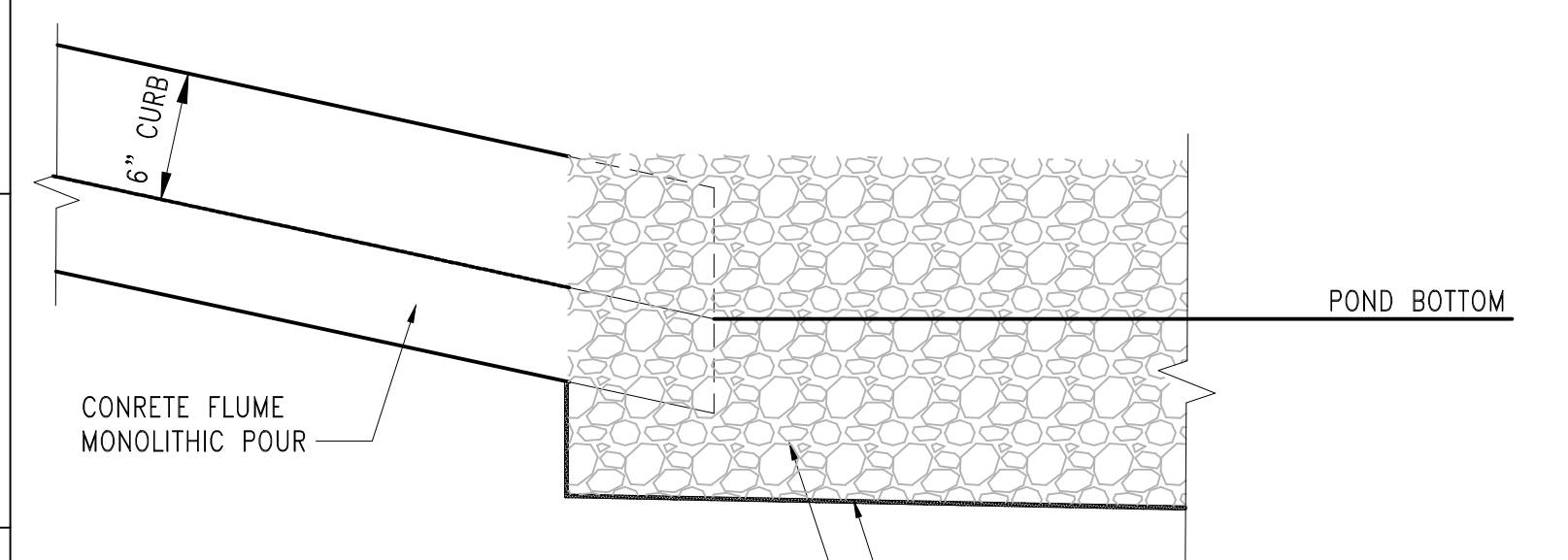


INLINE DRAIN / DRAIN BASIN DETAIL
N.T.S.

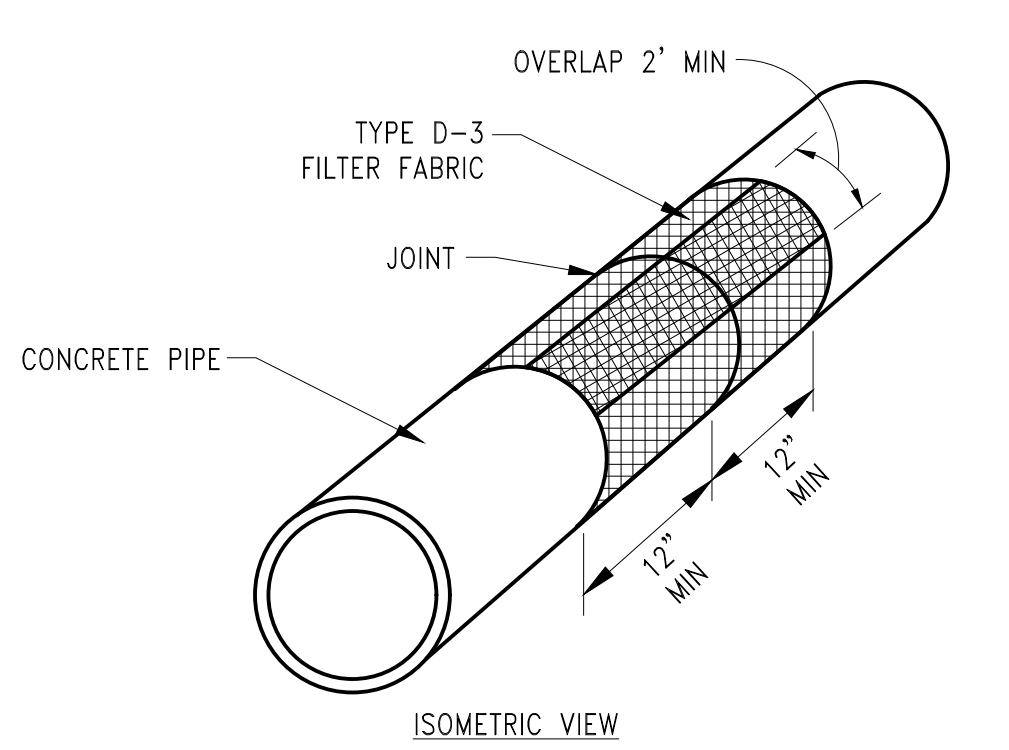


RIPRAP APRON DIMENSIONS AND ESTIMATED QUANTITIES				
INLET PIPE SIZE "D" (IN)	LENGTH OF APRON "L" (FT)	DEPTH OF APRON "H" (FT)	ESTIMATED RIPRAP (CY)	ESTIMATED GEOTEXTILE (SY)
18	7	1.5	2.7	11
24	9	1.5	4.5	16
36	16	2	17	40
48	25	2.5	47.1	83

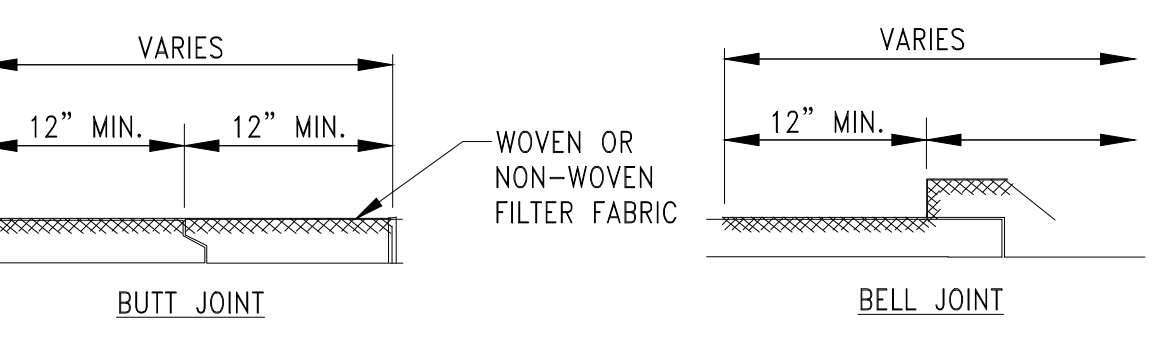
RIPRAP PLACEMENT AT MITERED END SECTION
N.T.S.



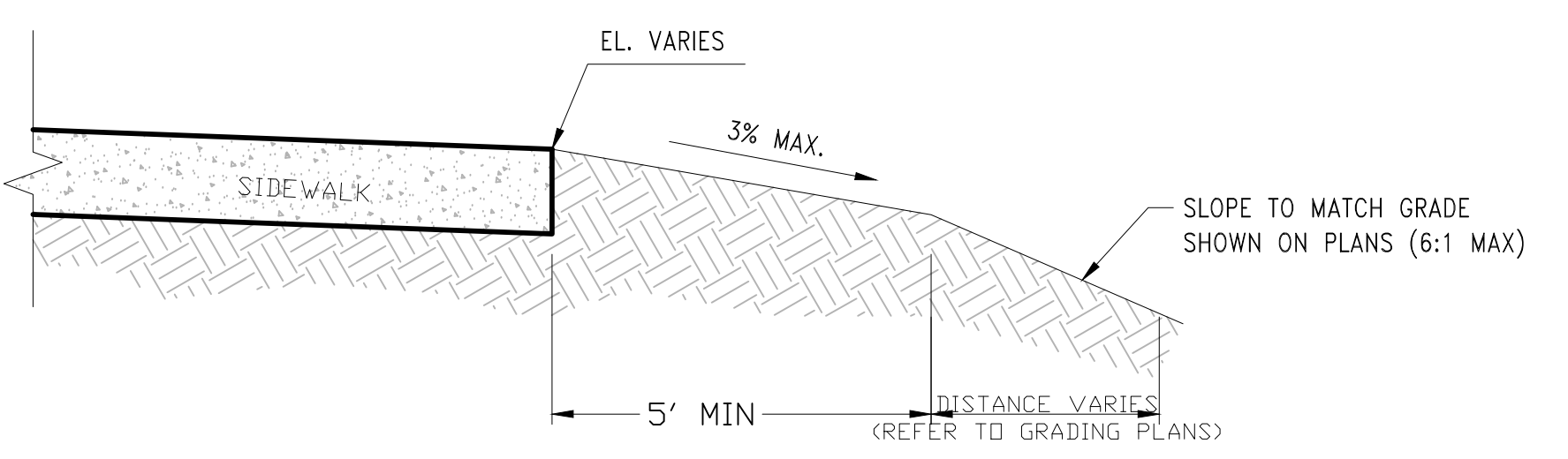
RIP RAP DETAIL
N.T.S.



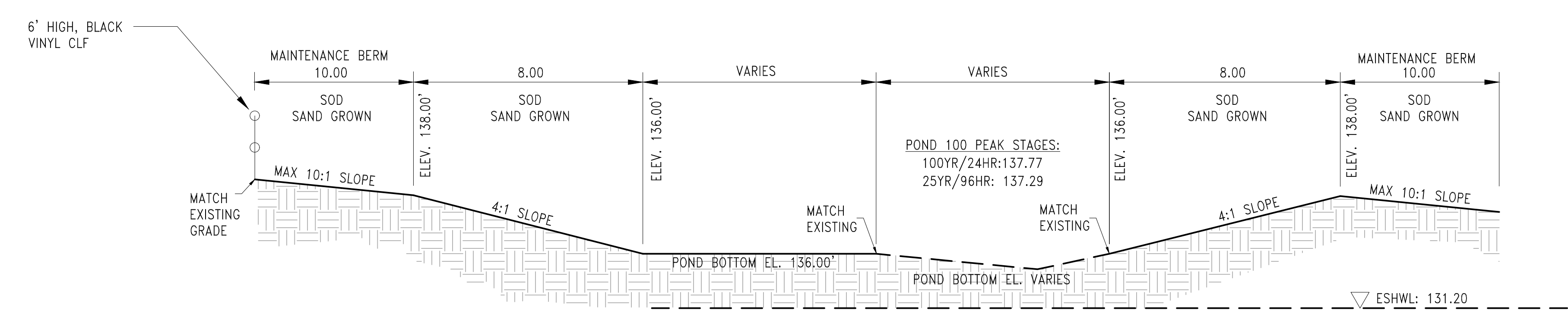
FILTER FABRIC JACKET DETAIL
REFER TO FDOT INDEX # 280



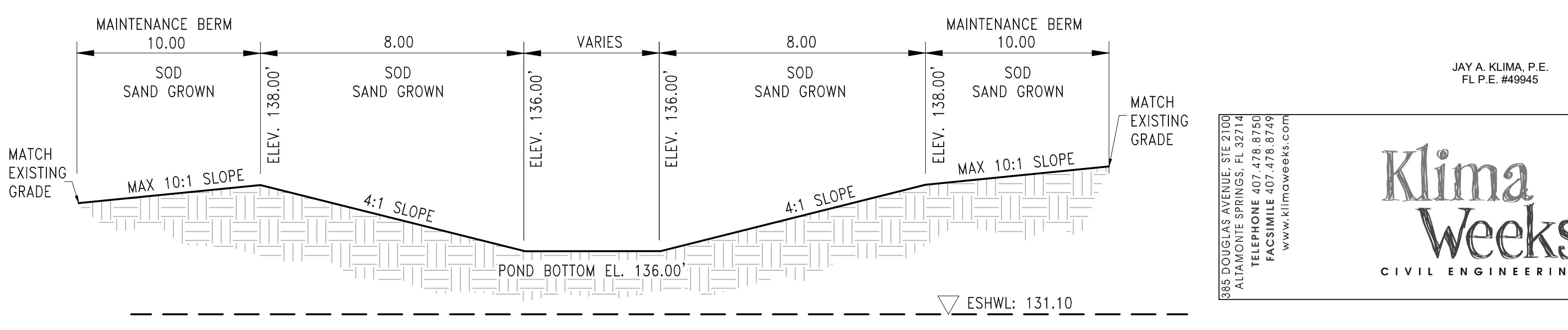
- NOTES:
1. FILTER FABRIC MATERIAL MUST MEET THE FOLLOWING ASTM REQUIREMENTS: D-4595, D-4632, D-4533, D-4833, D-4491
 2. FILTER FABRIC IS NOT REQUIRED WHEN AN O-RING GASKET IS USED.
 3. FILTER FABRIC FOR THIS APPLICATION SHALL BE FDOT TYPE D-3.



MAX. GRADING OFF SIDEWALK
N.T.S.



POND SECTION A-A



POND SECTION B-B

JAY A. KLIMA, P.E.
FL P.E. #49646

Klima Weeks
CIVIL ENGINEERING

8000 SOUTHWEST AVENUE, SUITE 300
ALAMONTE SPRINGS, FL 32714
TELEPHONE 407.478.8150
FAX 407.478.8151
WWW.KLIMAWEEKS.COM

SCHENKELSHULTZ
ARCHITECTURE

200 E. Robinson Street
Suite 300
Orlando, FL 32801
voice 407-872-3322
fax 407-872-3303

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**FRUITLAND PARK
ELEMENTARY SCHOOL
REPLACEMENT**

Fruitland Park, FL

LAKE COUNTY SCHOOLS

LAKE COUNTY SCHOOLS
201 WEST BURLEIGH BLVD, TAVARES, FL 32778

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DRAINAGE DETAILS

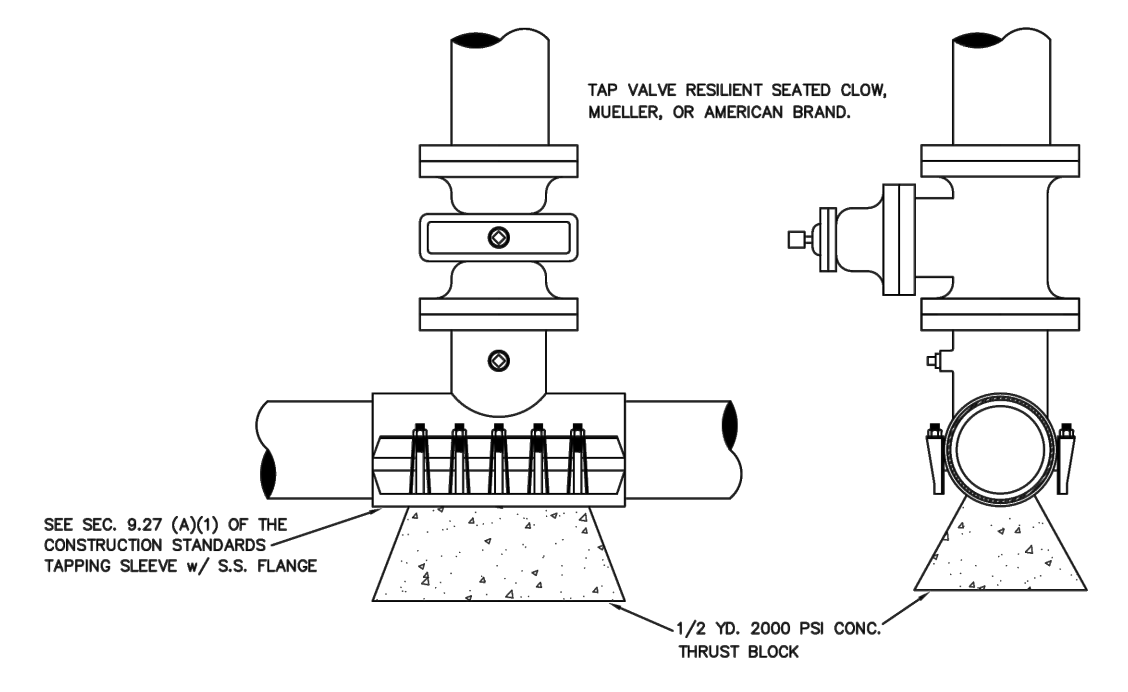
C-700

NOT RELEASED FOR CONSTRUCTION PACKAGE

GENERAL WATER NOTES

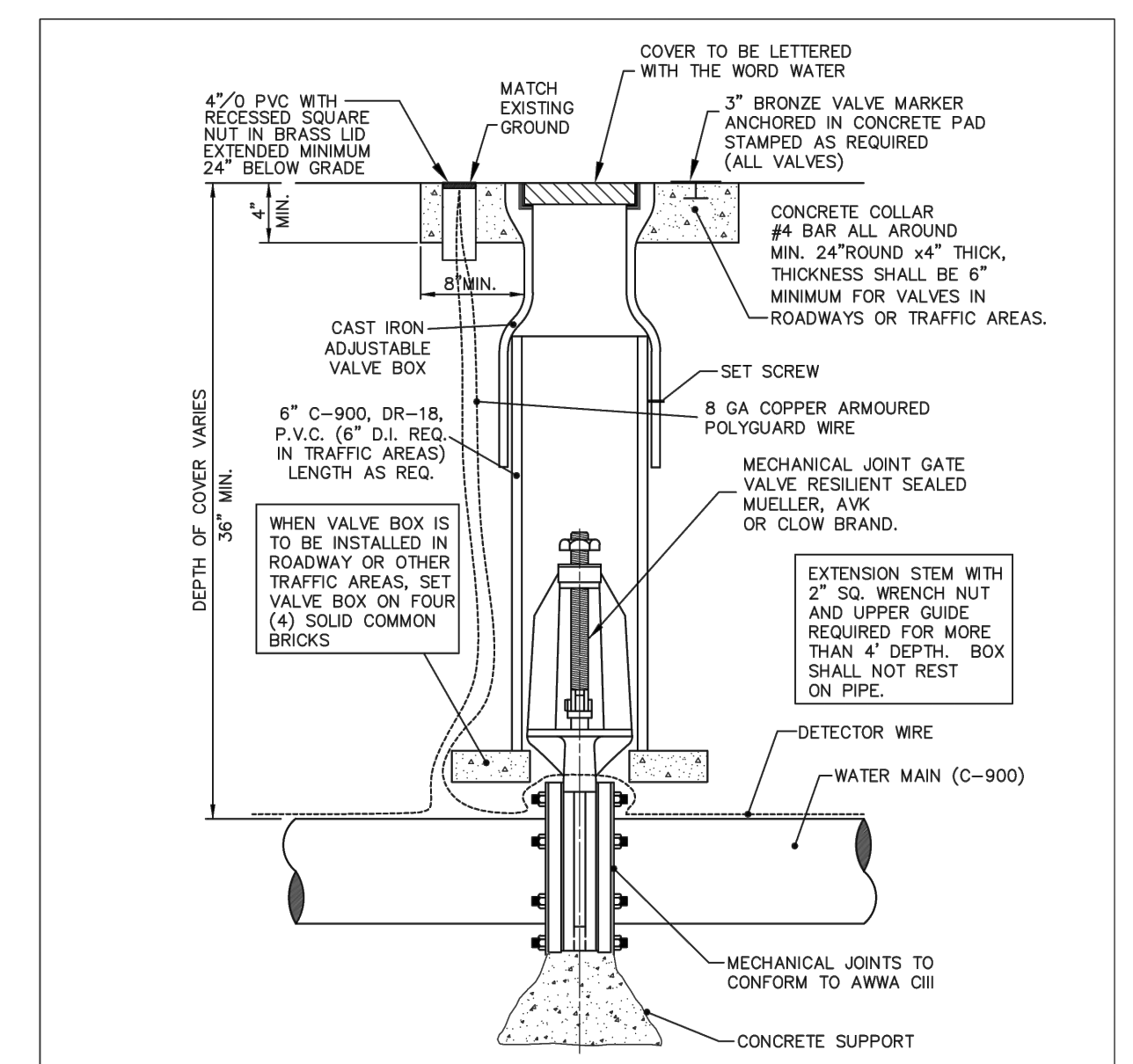
1. WATER SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND REGULATIONS, CLEANED, DISINFECTED AND BACTERIOLOGICALLY CLEARED FOR SERVICE IN ACCORDANCE WITH THE LATEST AWWA STANDARDS AND CHAPTER 62-555 FLORIDA ADMINISTRATIVE CODE.
2. ALL PIPING SHALL BEAR THE "NSF" SEAL FOR POTABLE WATER.
3. WATER MAINS SHALL BE PVC CONFORMING TO AWWA C-900, DR 18 FOR PIPE SIZES 4" - 12" PIPES 14" OR LARGER SHALL BE AWWA C-900, DR 18. ALL COUPLINGS, COMPOUNDS, SOLVENTS, LUBRICANTS AND PIPE PREPARATION, FOR LAYING, SHALL BE IN ACCORDANCE WITH THE PIPE MANUFACTURER'S LATEST RECOMMENDATIONS.
4. DEPTH OF WATER LINES TO BE MINIMUM 36" BELOW FINISHED GRADE.
5. WATER MAINS TO BE LOCATED 5' FROM BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
6. ALL PIPING CLEARANCES SHALL BE IN ACCORDANCE WITH CHAPTER 62-555.114, F.A.C., AND APPROVED BY THE CITY.
7. ALL WATER MAINS UNDER PAVEMENT SHALL BE DUCTILE IRON AND SHALL EXTEND 5' BEYOND THE BACK OF CURB, OR DIRECTIONAL BORES, WHICH SHALL BE SDR-11 HDPE.
8. ALL SLEEVES UNDER PAVEMENT SHALL EXTEND 5' BEYOND THE BACK OF CURB.

NOTE: MARK ALL POINTS WHERE WATER SERVICES CROSS CURB WITH A "W" MARK IN CONCRETE.



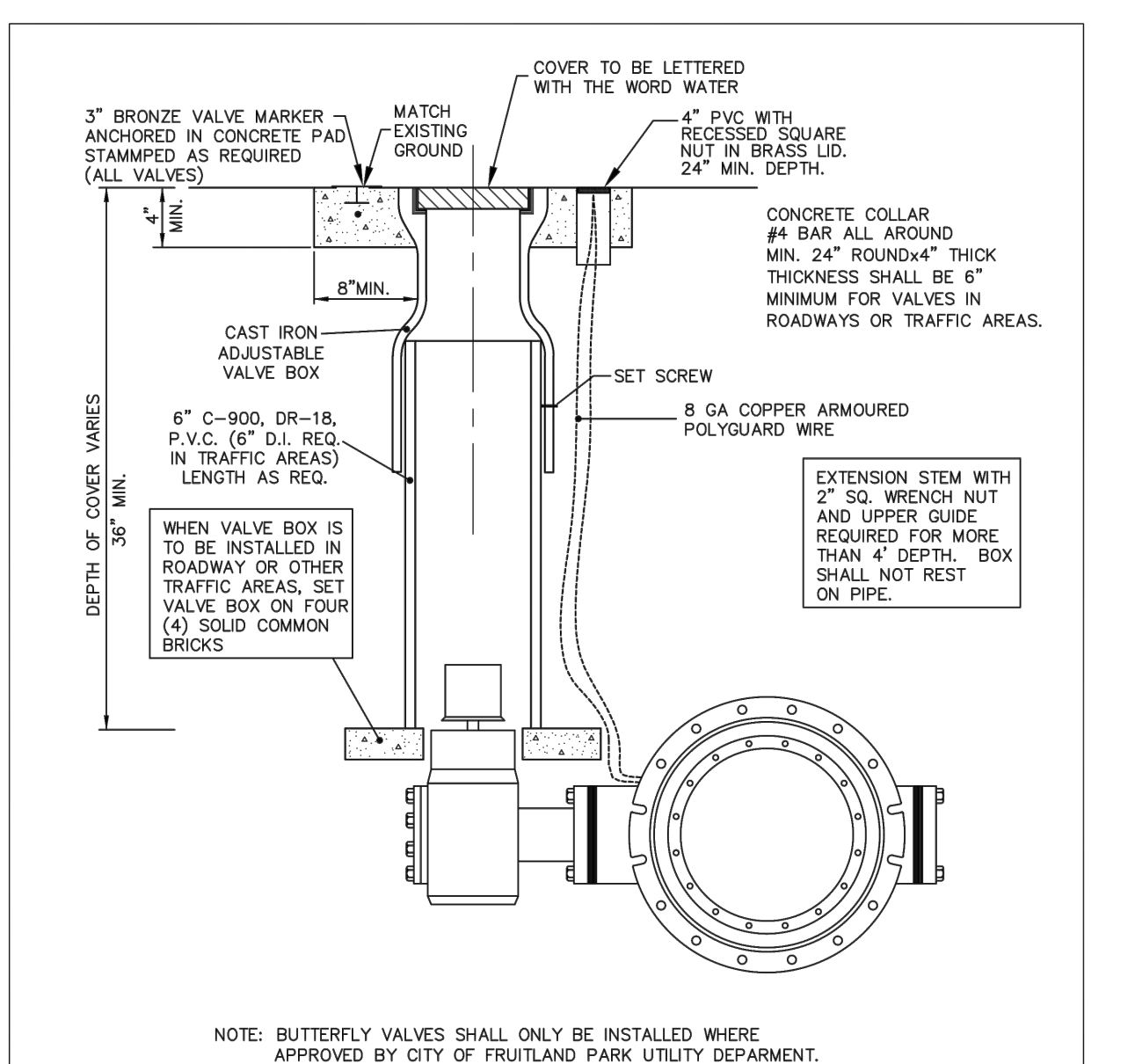
WET TAP SLEEVE & TAP VALVE
 NOT TO SCALE

City of Fruitland Park Standard Details JANUARY 2020
 Detail W-2



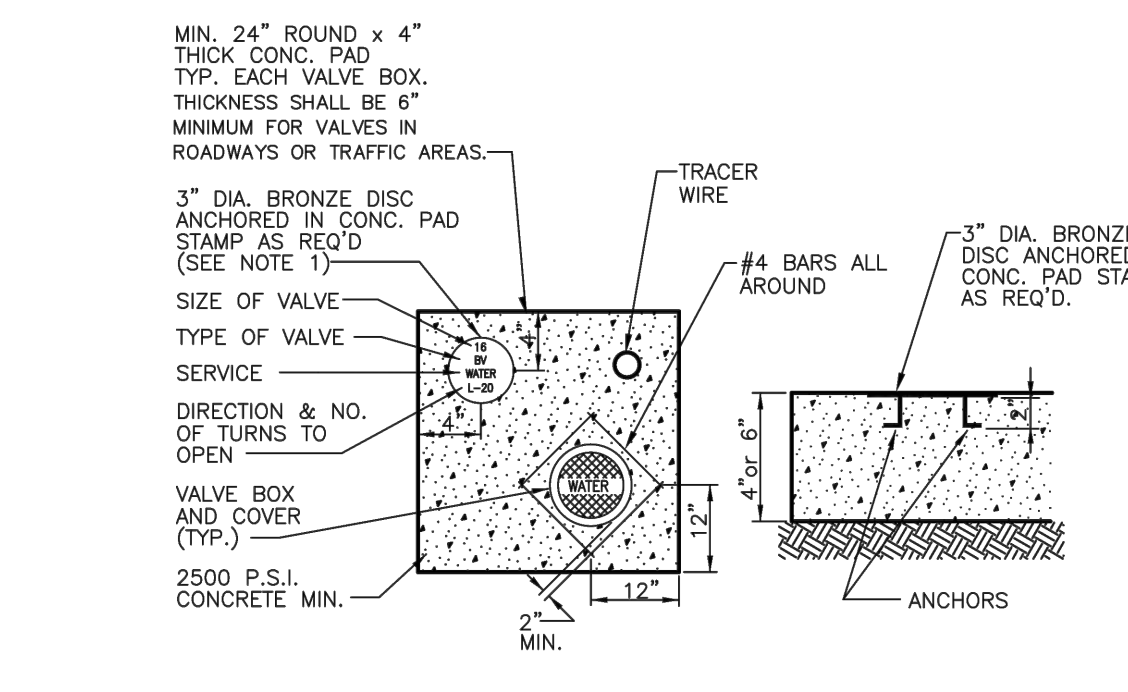
GATE VALVE & BOX
 NOT TO SCALE

City of Fruitland Park Standard Details JANUARY 2020
 Detail W-3



BUTTERFLY VALVE & BOX
 NOT TO SCALE

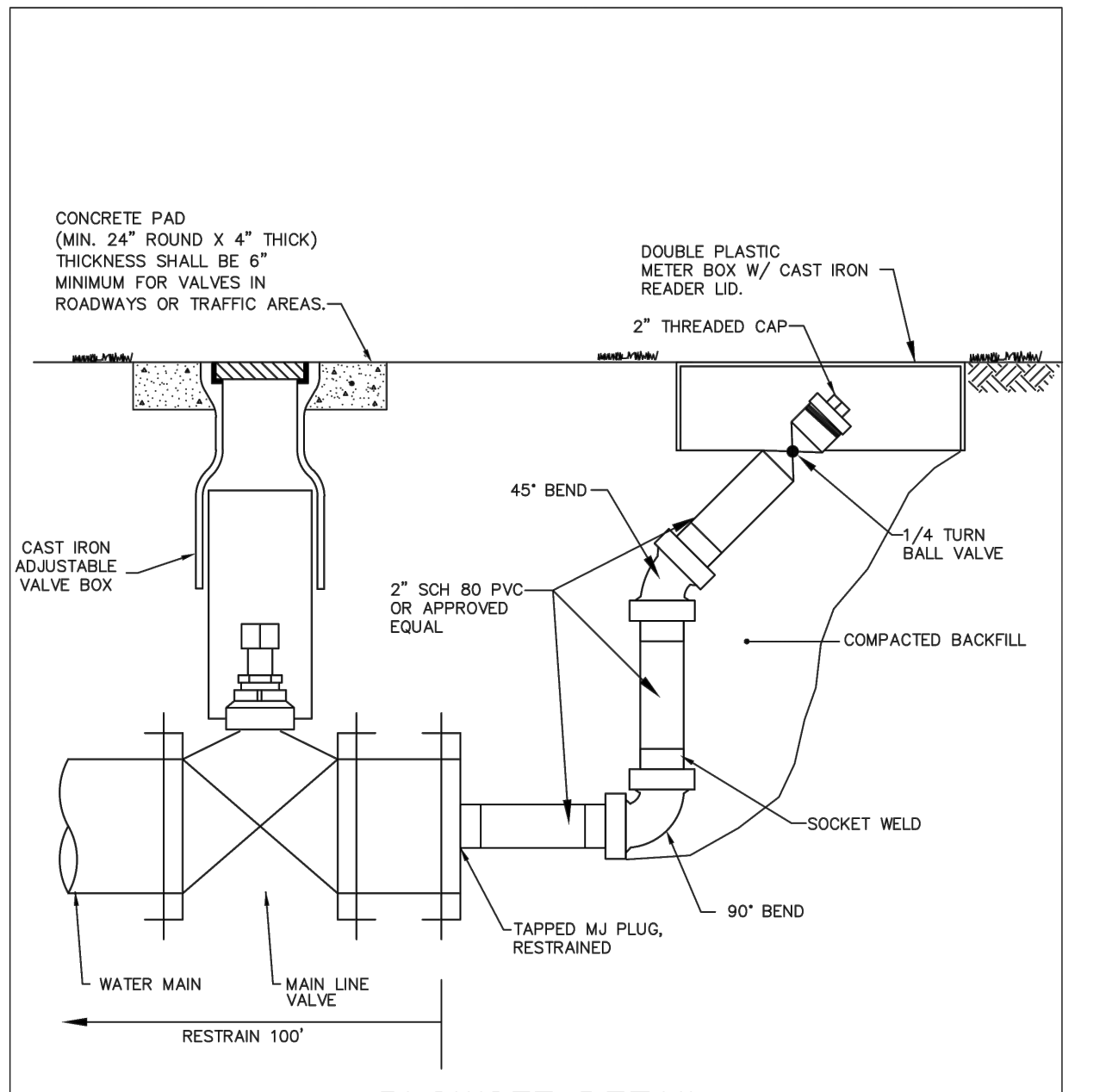
City of Fruitland Park Standard Details JANUARY 2020
 Detail W-4



VALVE COLLAR
 NOT TO SCALE

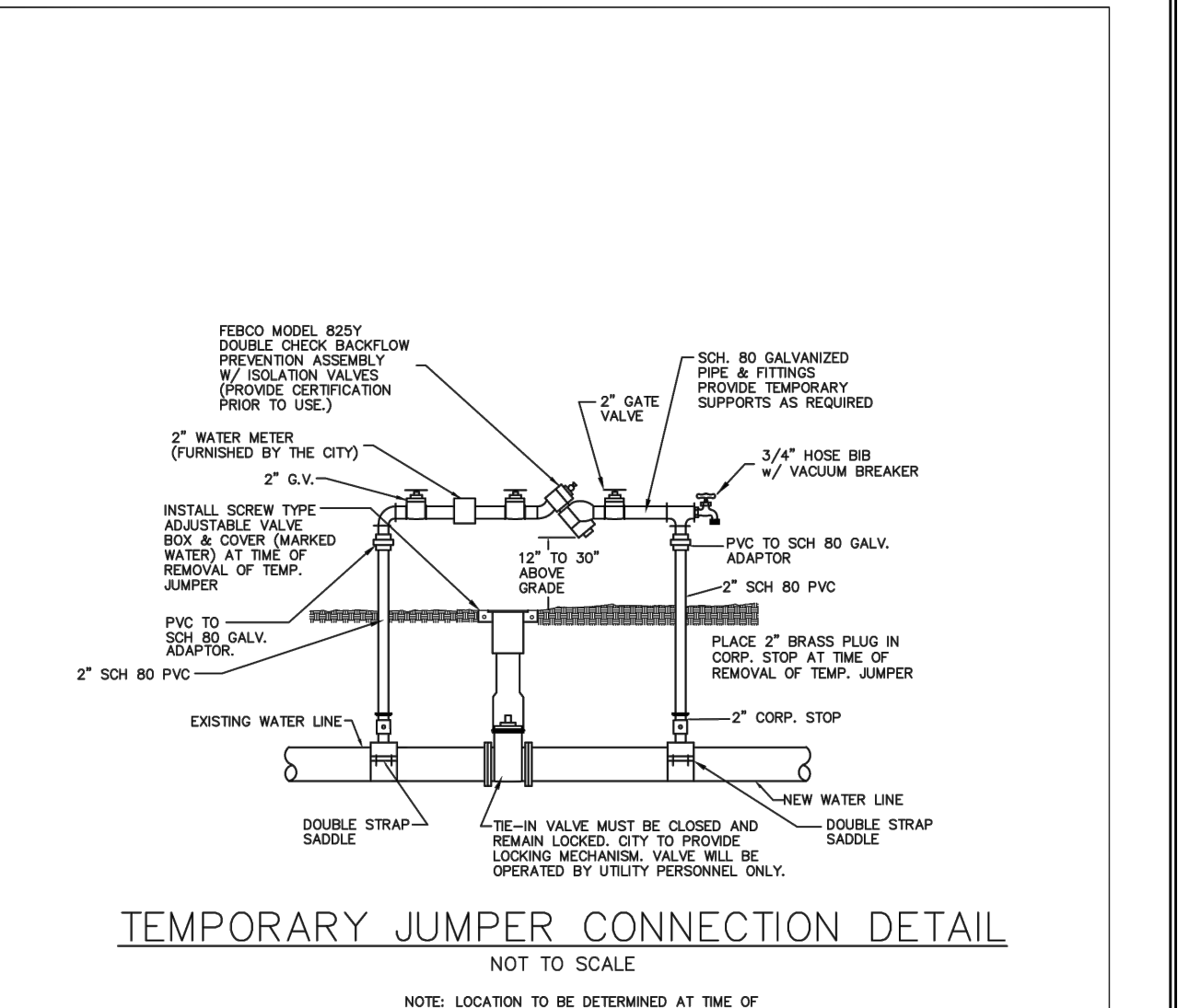
City of Fruitland Park Standard Details JANUARY 2020
 Detail W-5

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BLOWOFF DETAIL
 NOT TO SCALE

City of Fruitland Park Standard Details JANUARY 2020
 Detail W-6

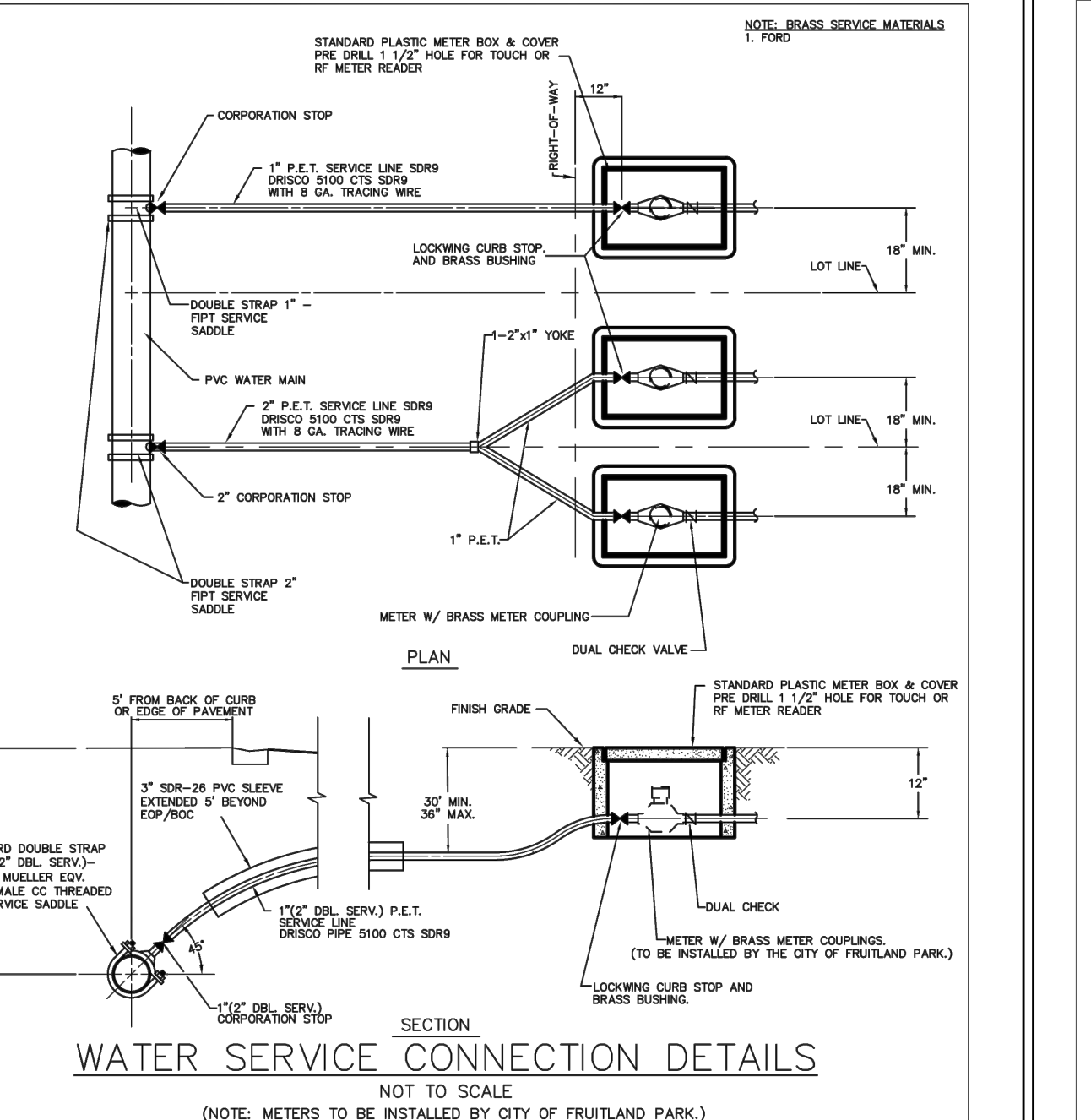


TEMPORARY JUMPER CONNECTION DETAIL
 NOT TO SCALE

City of Fruitland Park Standard Details JANUARY 2020
 Detail W-7

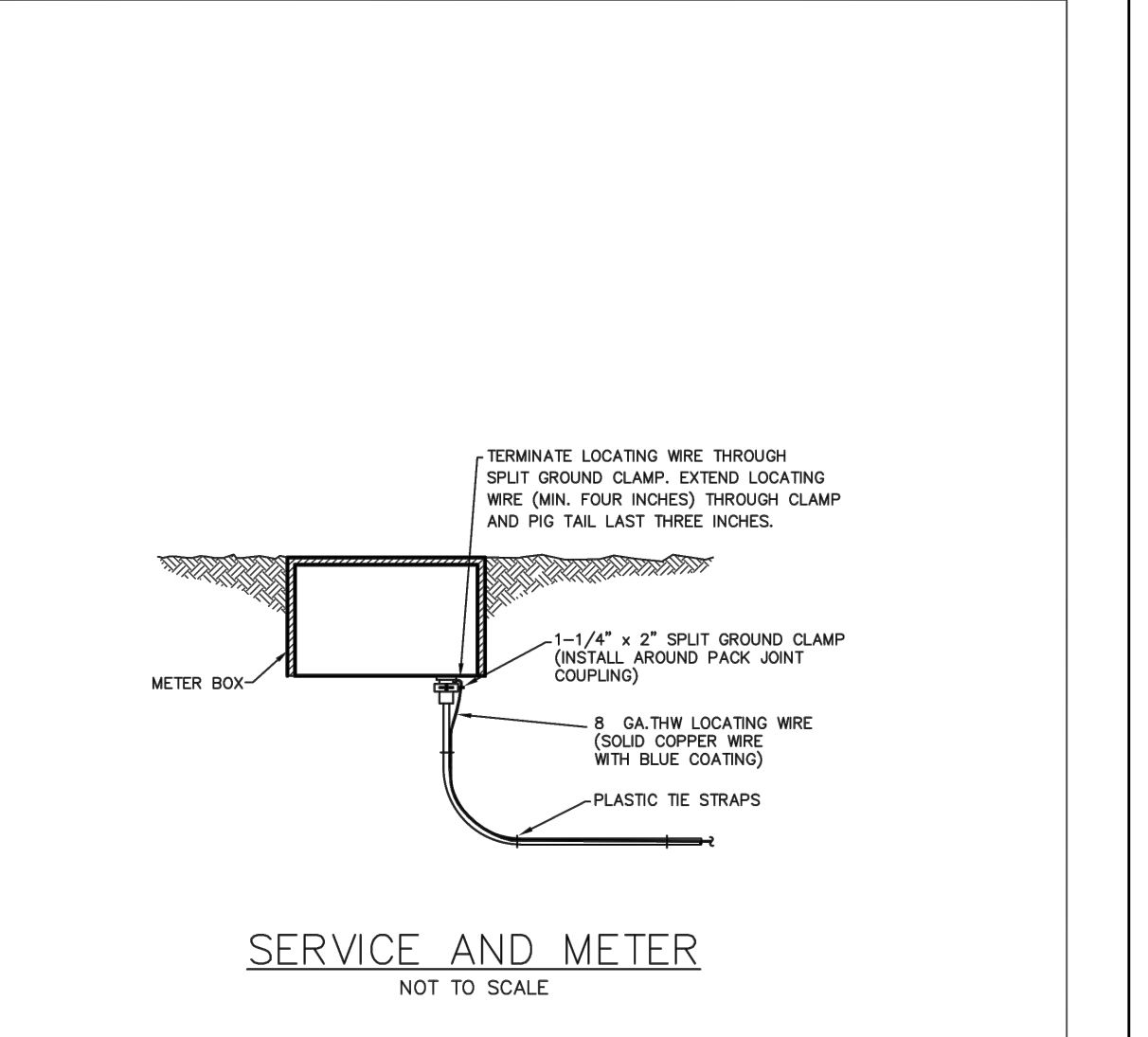
- TEMPORARY JUMPER CONNECTION NOTES**
1. A TEMPORARY JUMPER CONNECTION IS REQUIRED AT ALL CONNECTIONS BETWEEN EXISTING ACTIVE WATER MAINS AND PROPOSED NEW WATER MAIN IMPROVEMENTS.
 2. THE DETAILS TO BE USED FOR FILLING ANY WATER MAIN OF ANY SIZE FROM EXISTING ACTIVE WATER MAINS AND FOR FLUSHING OF NEW MAINS UP TO 48\"/>

City of Fruitland Park Standard Details JANUARY 2020
 Detail W-8



WATER SERVICE CONNECTION DETAILS
 NOT TO SCALE

City of Fruitland Park Standard Details JANUARY 2020
 Detail W-9



SERVICE AND METER
 NOT TO SCALE

City of Fruitland Park Standard Details JANUARY 2020
 Detail W-10

FRUITLAND PARK ELEMENTARY SCHOOL REPLACEMENT

Fruitland Park, FL



LAKE COUNTY SCHOOLS
 201 WEST BURLINGHAM BLVD, TAVARES, FL 32778

ISSUE DATE: 8/16/2023
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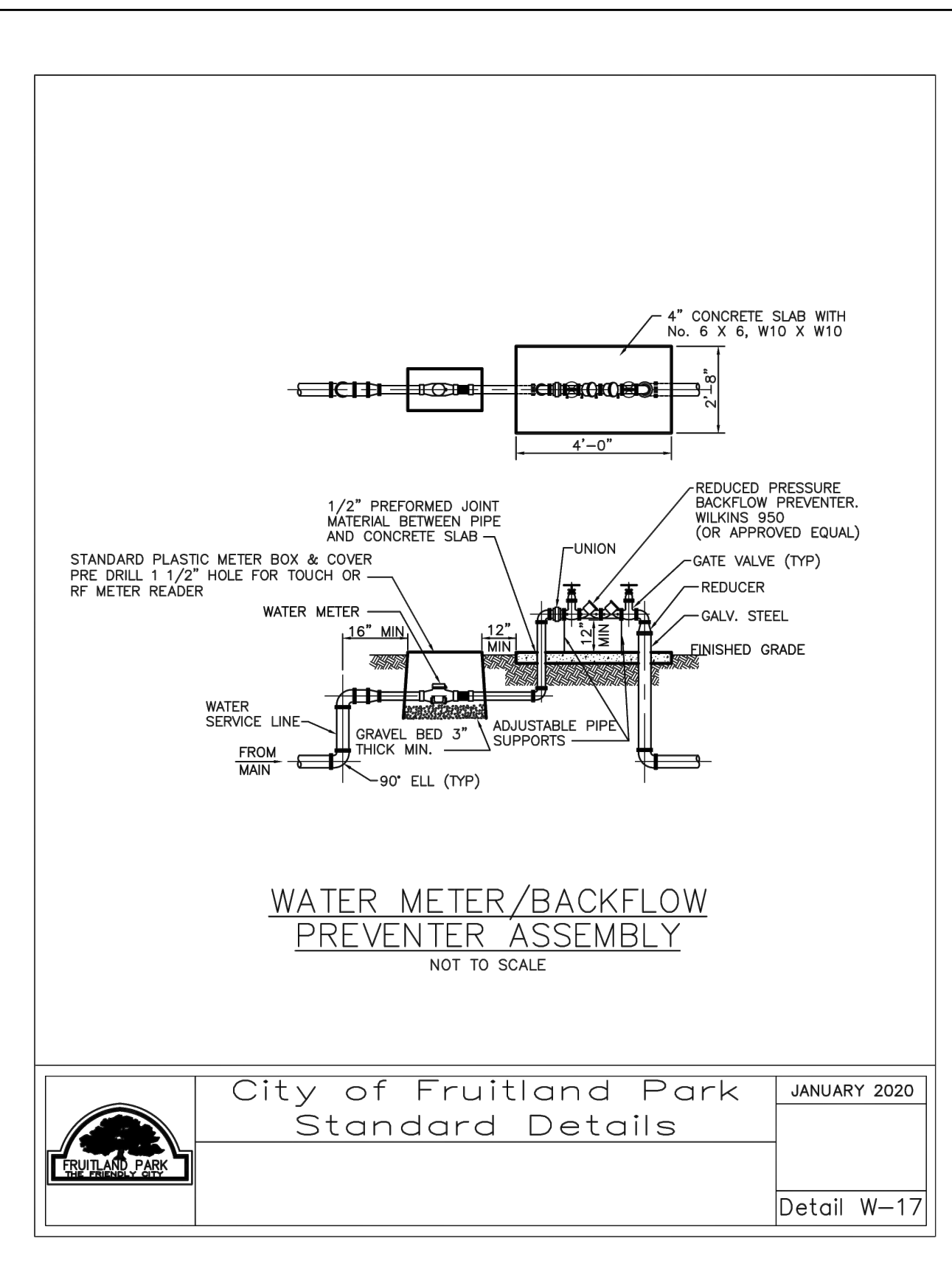
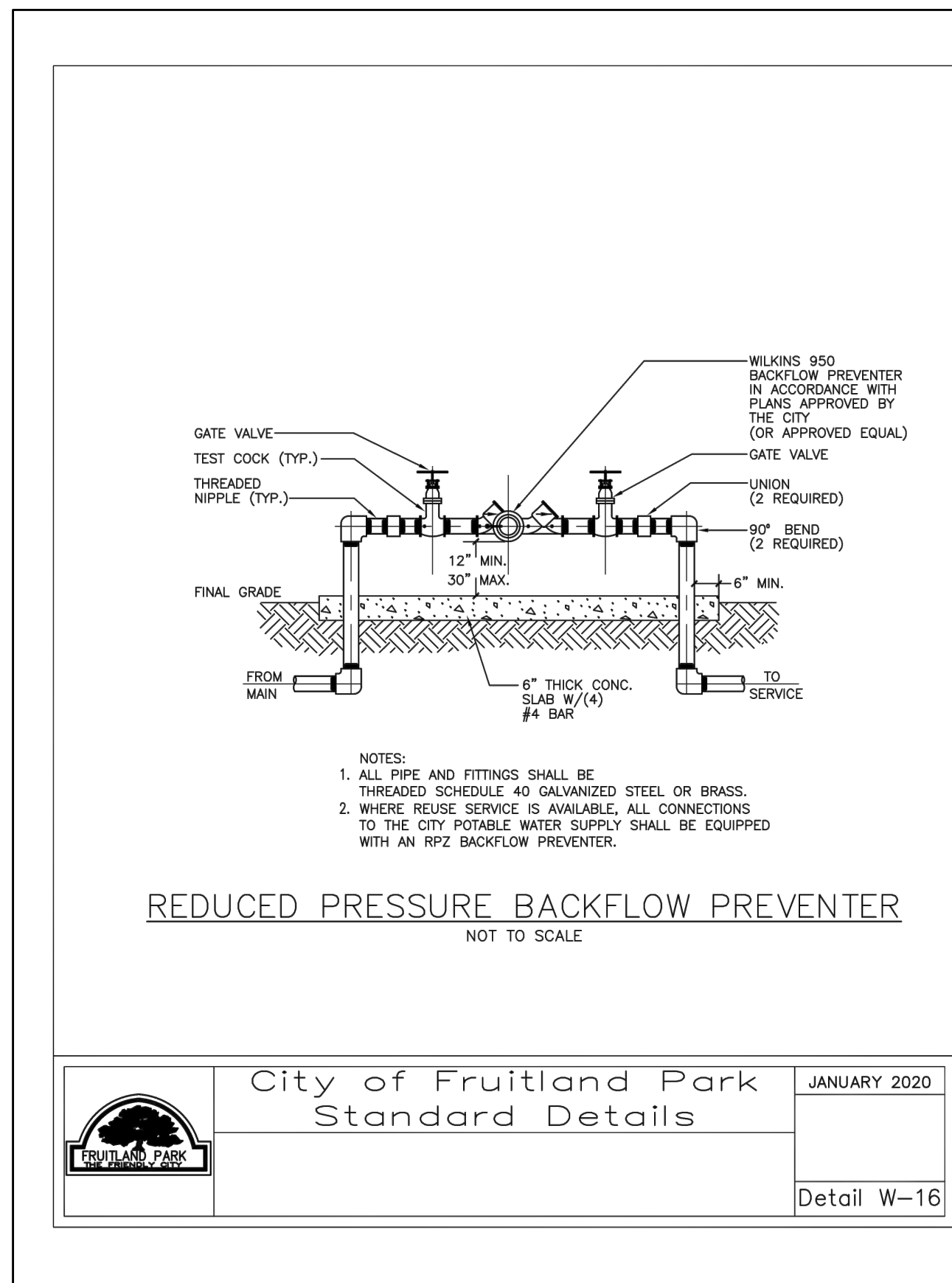
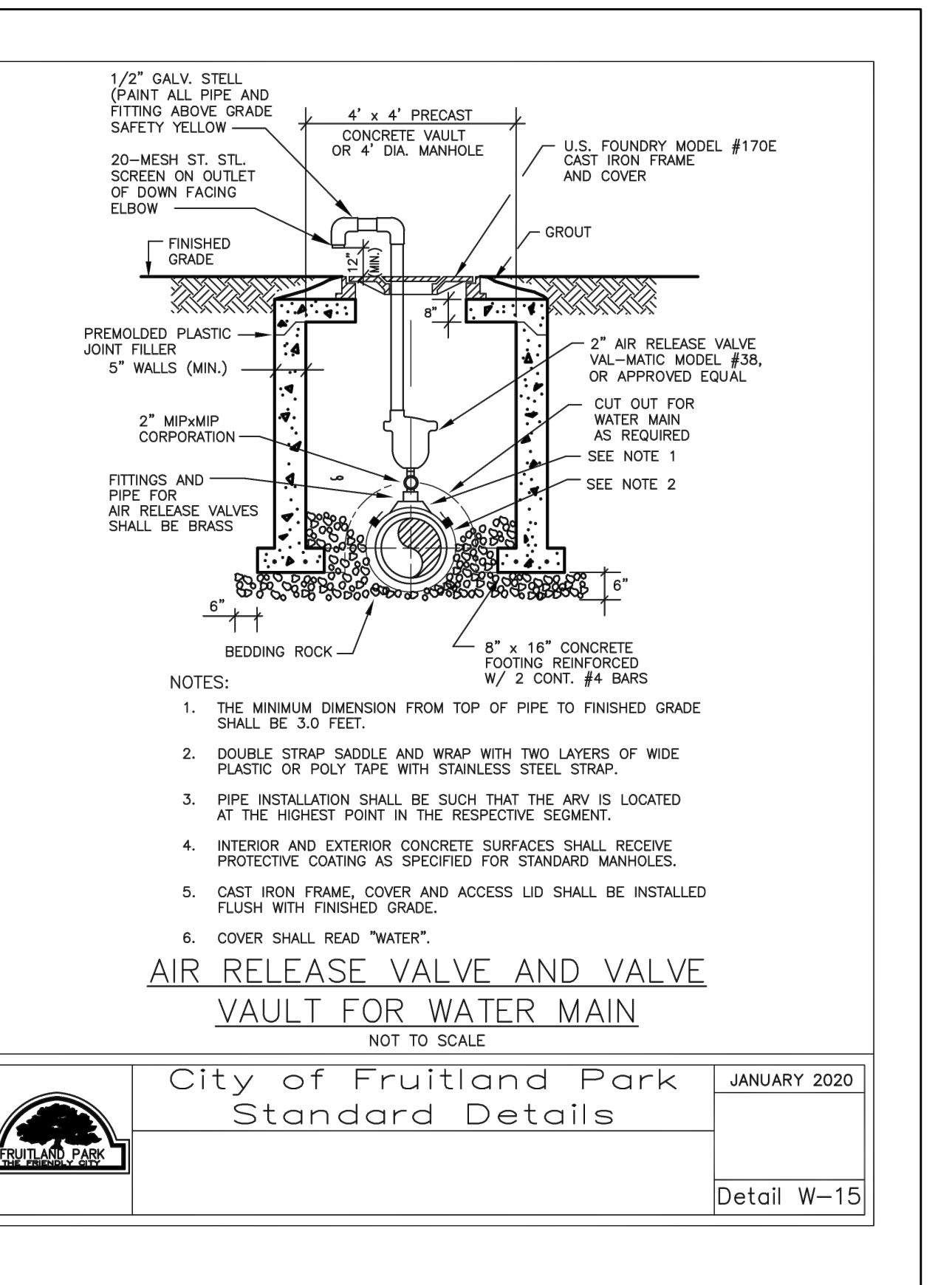
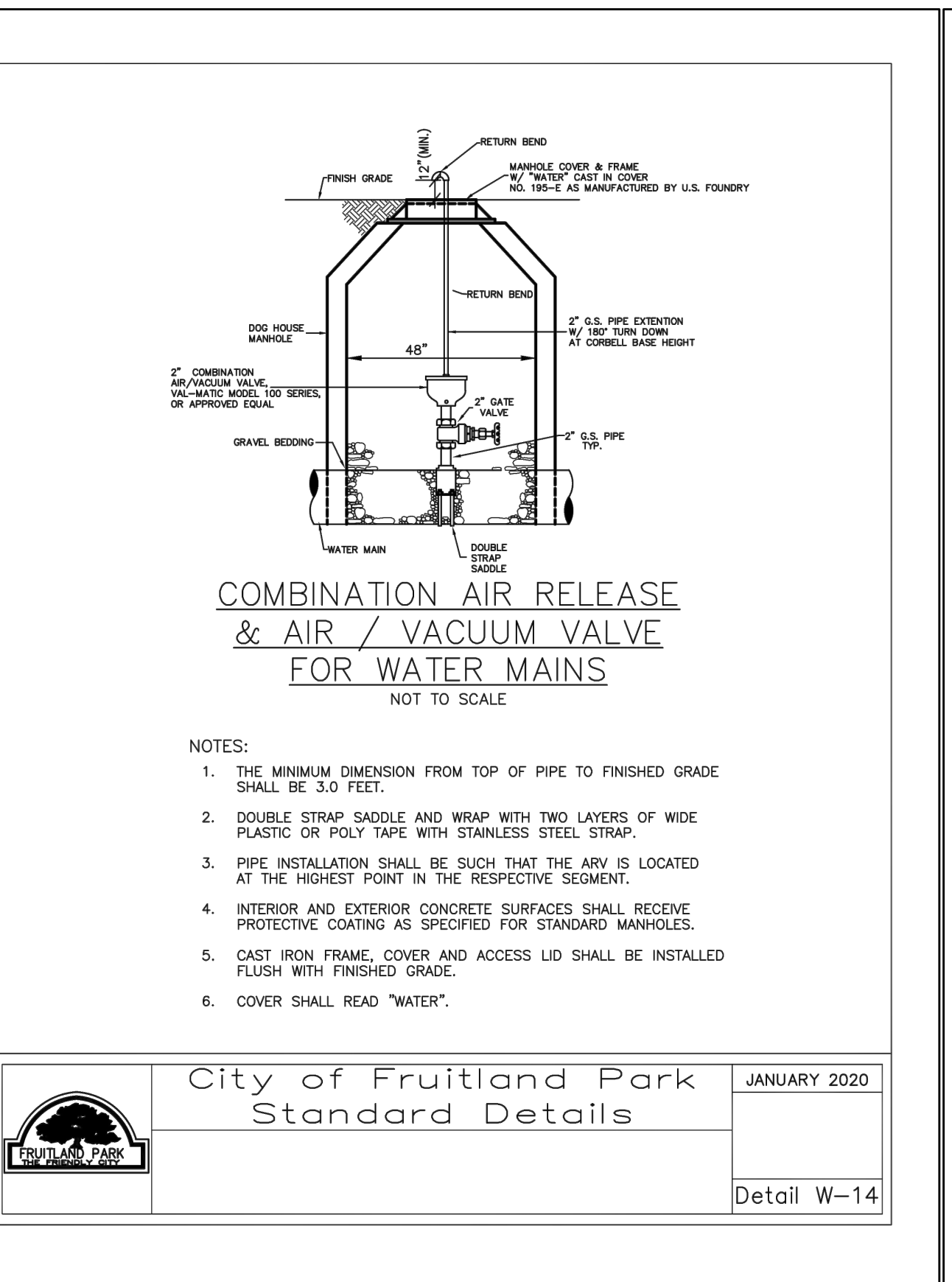
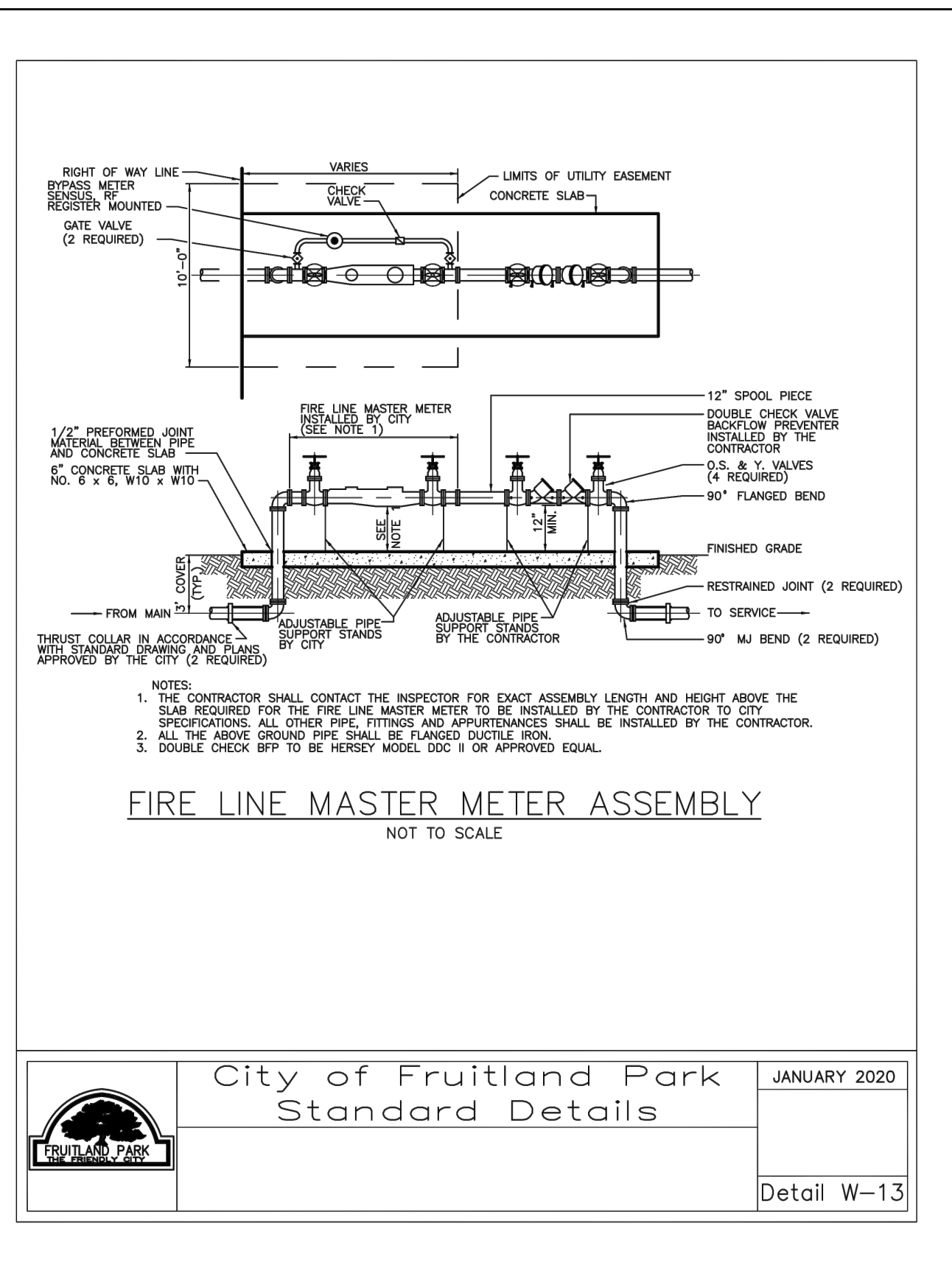
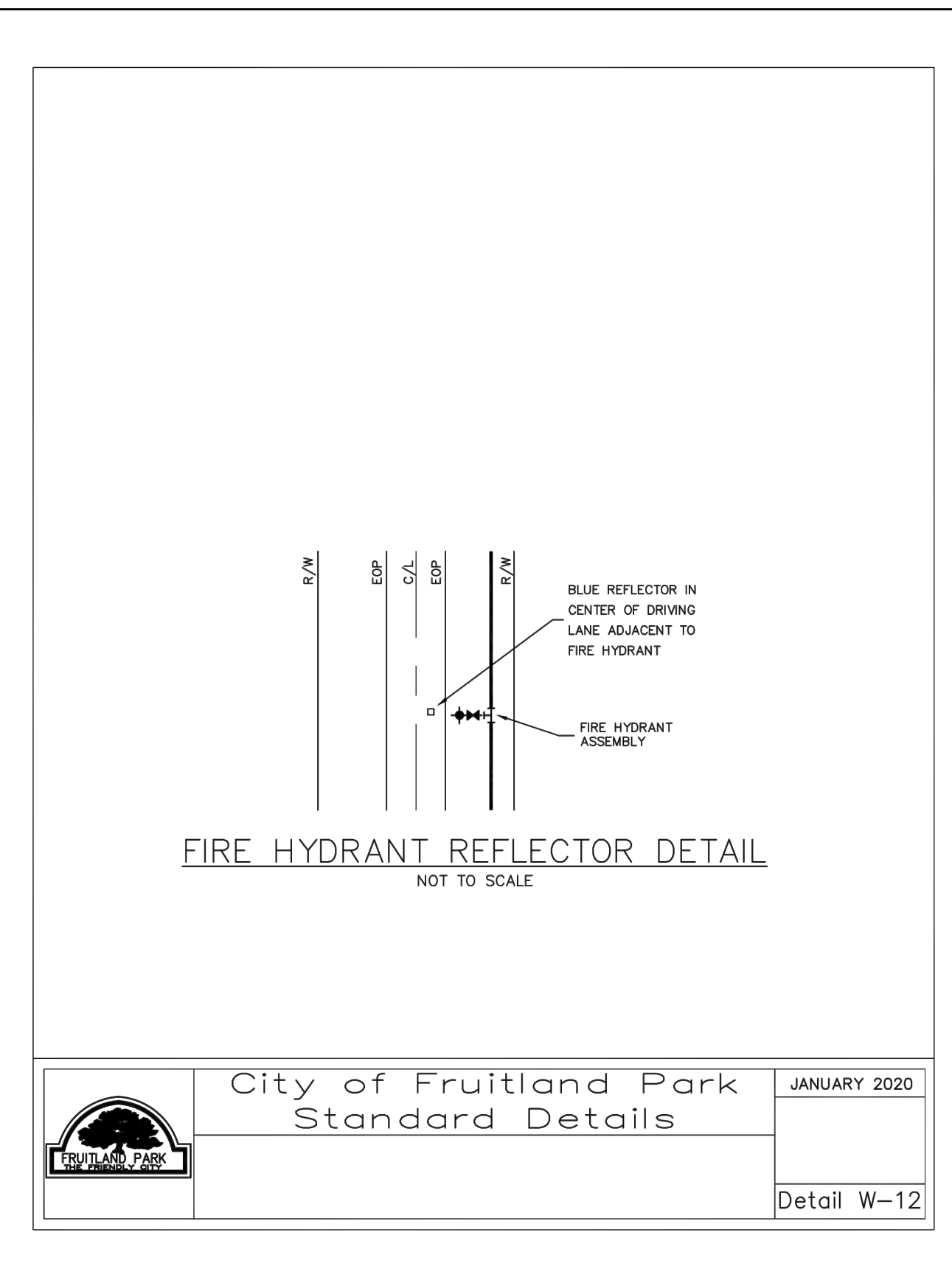
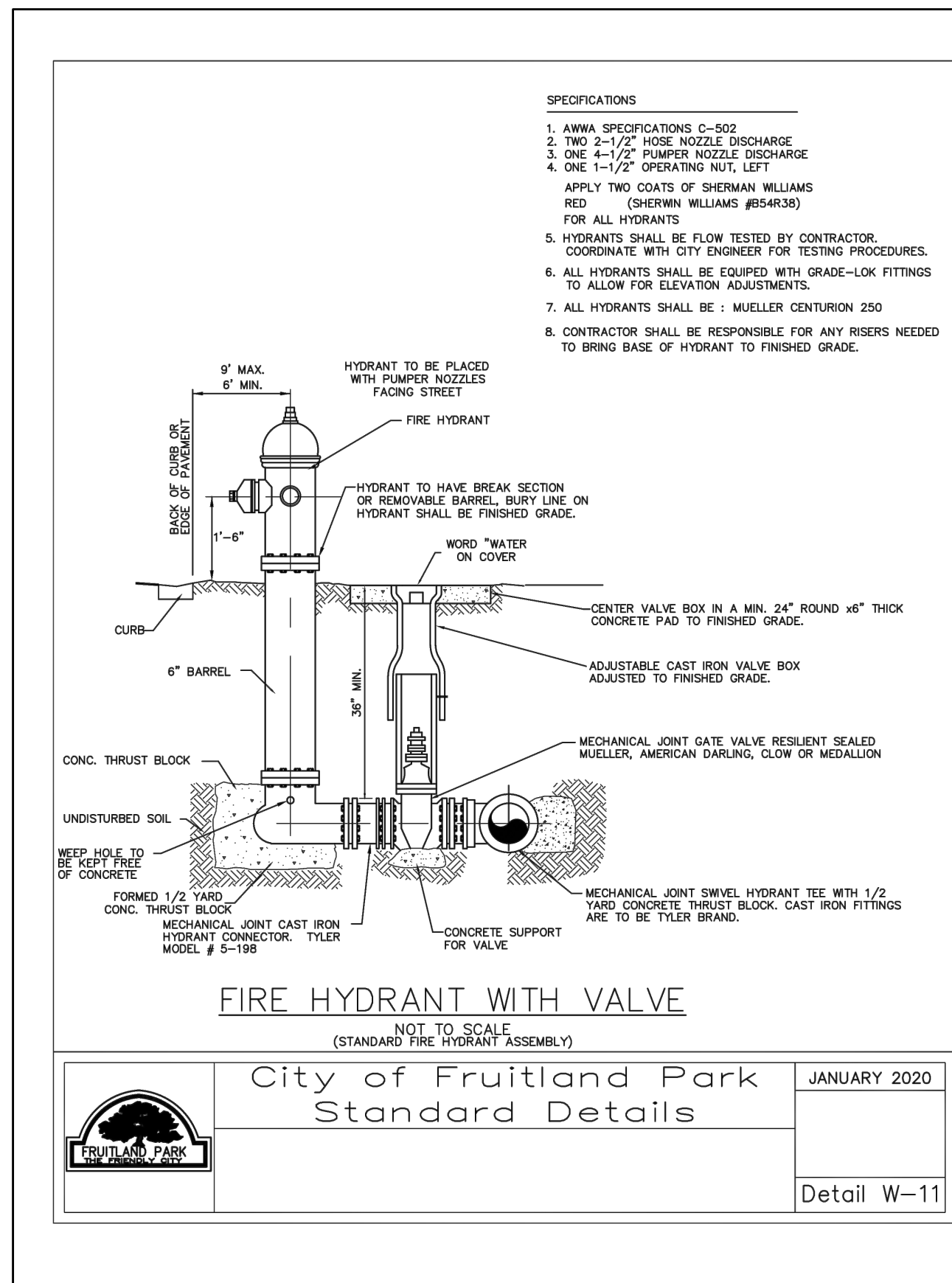
UTILITY DETAILS

C-800

JAY A. KLIMA, P.E.
 FL P.E. #49946

WEST CHOCOLA AVENUE, SUITE 101
 ALAQUATE SPRINGS, FL 32714
 TELEPHONE 407.478.8350
 FAX 407.478.8350
 WWW.LITTONWEBS.COM

Klima Weeks
 CIVIL ENGINEERING



SCHENKELSHULTZ
ARCHITECTURE

200 E. Robinson Street
Suite 300
Orlando, FL 32801
voice 407-872-3322
fax 407-872-3303

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**FRUITLAND PARK
ELEMENTARY SCHOOL
REPLACEMENT**

Fruitland Park, FL



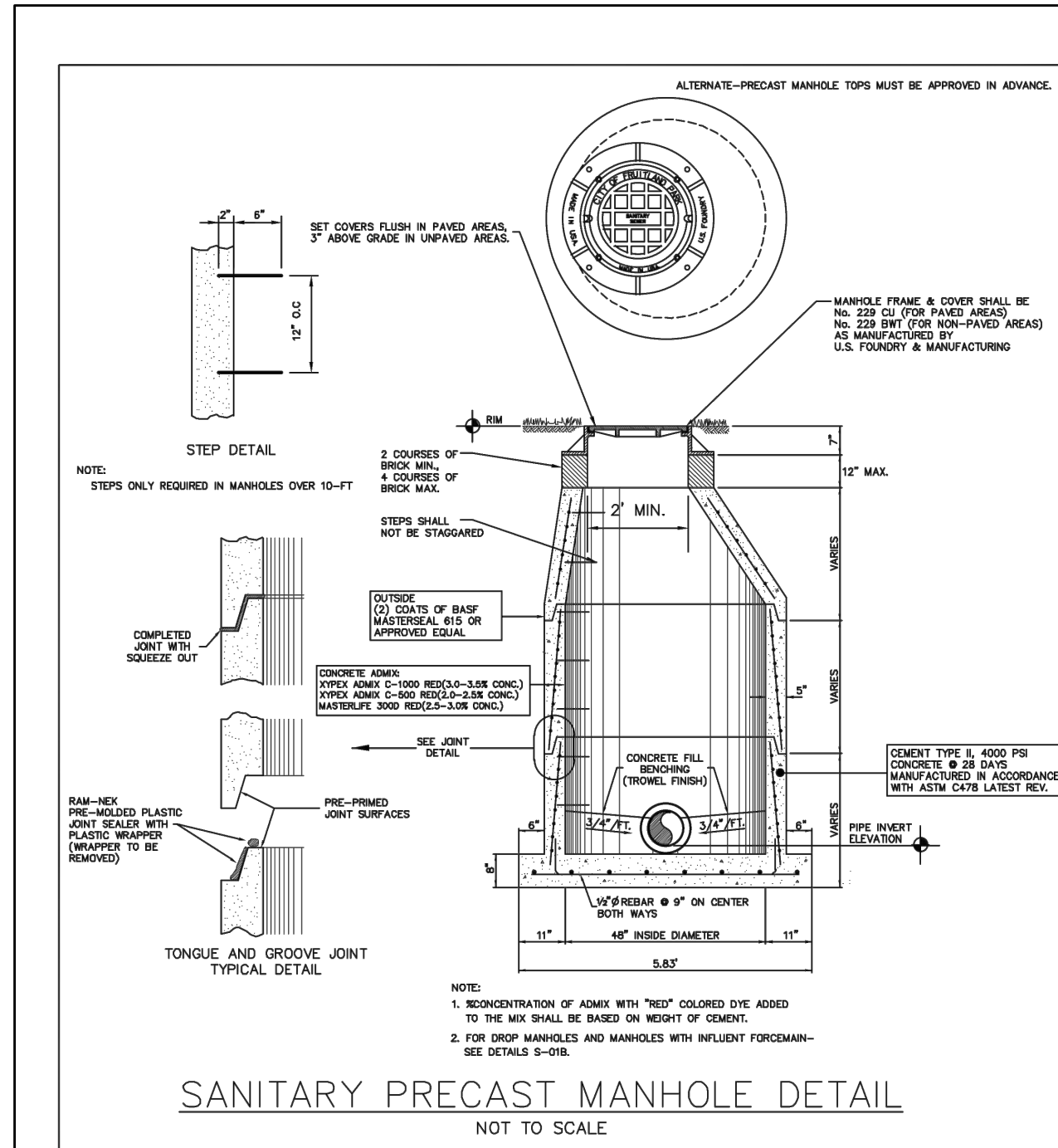
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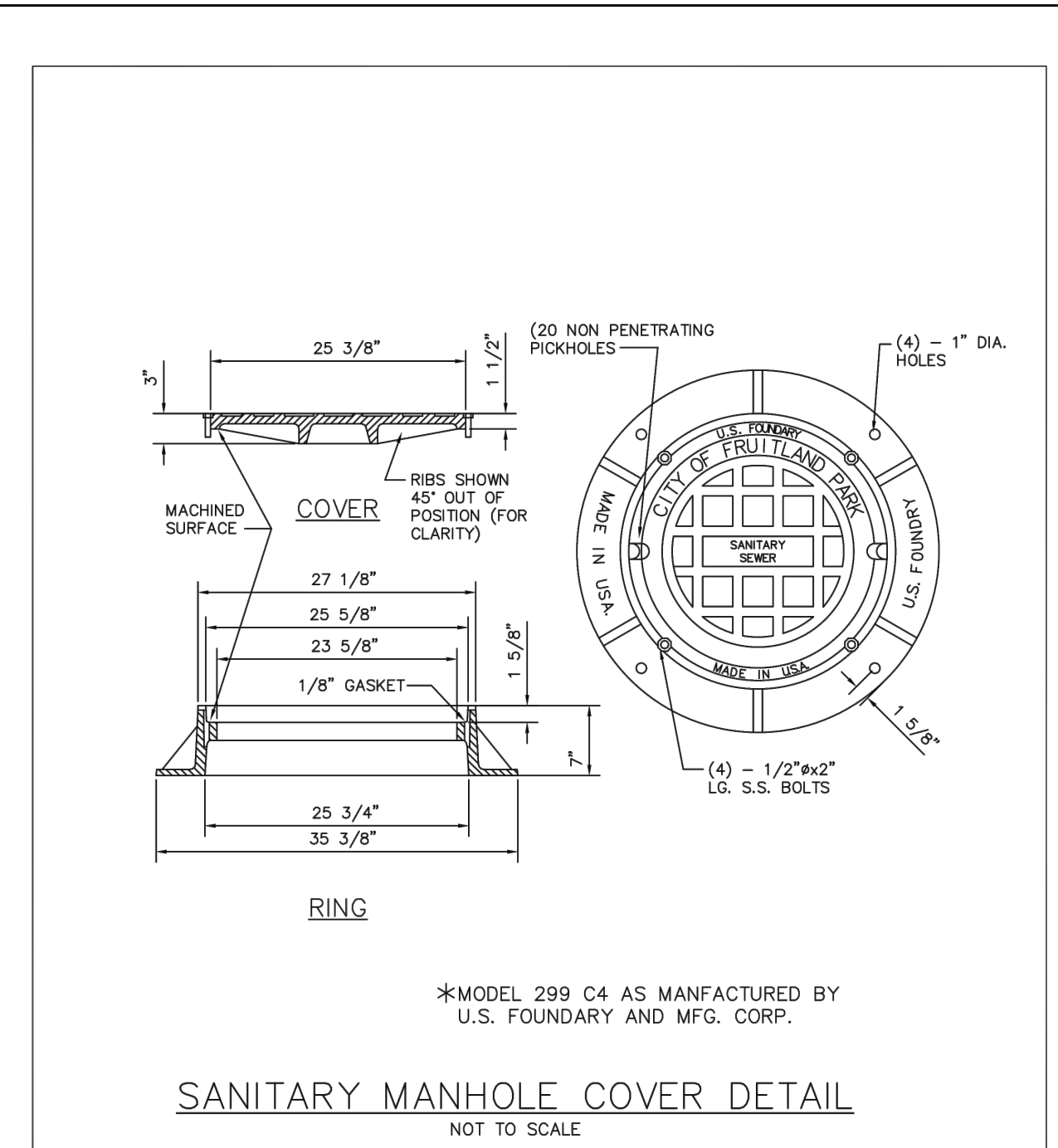
UTILITY DETAILS

C-801

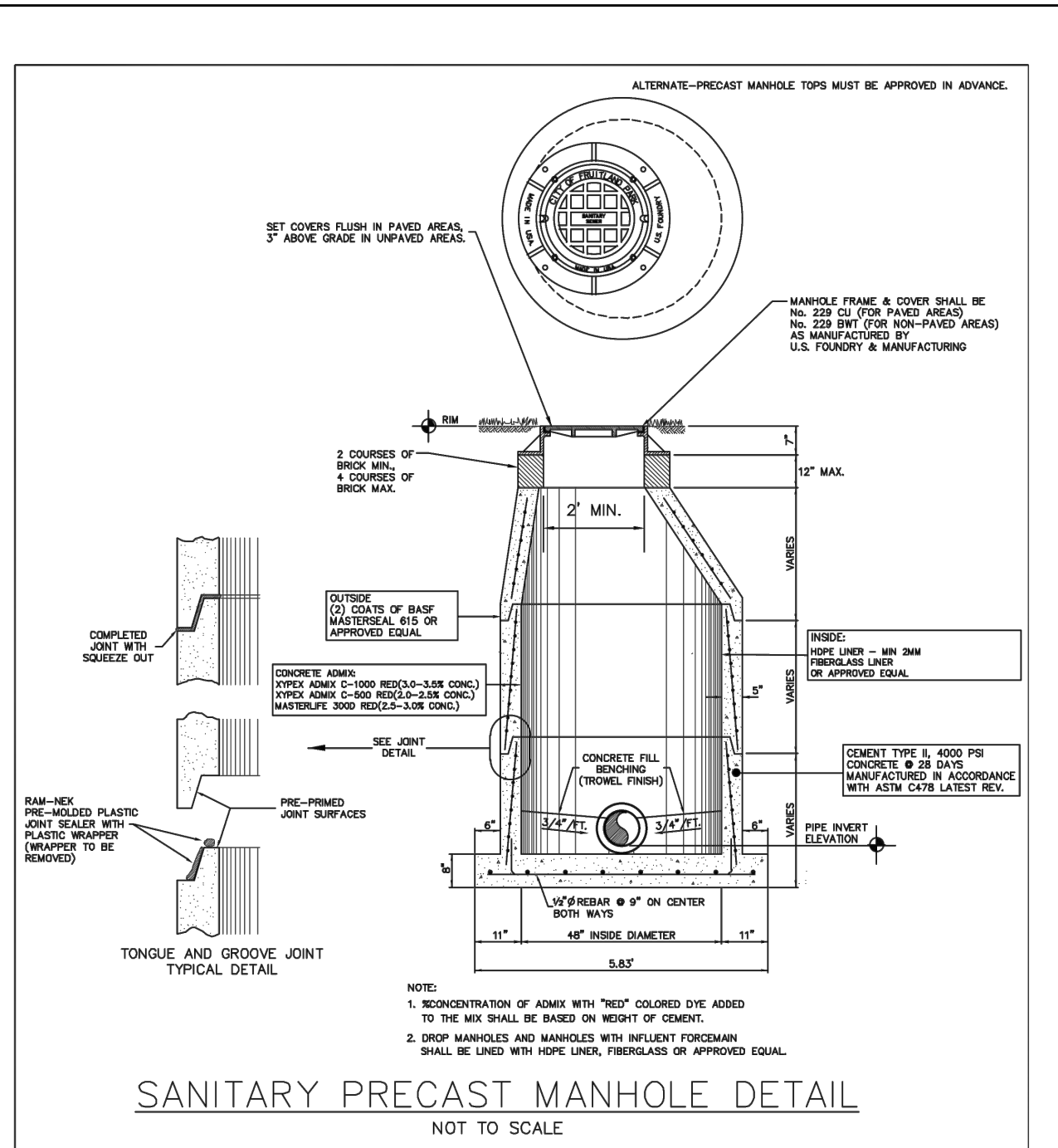




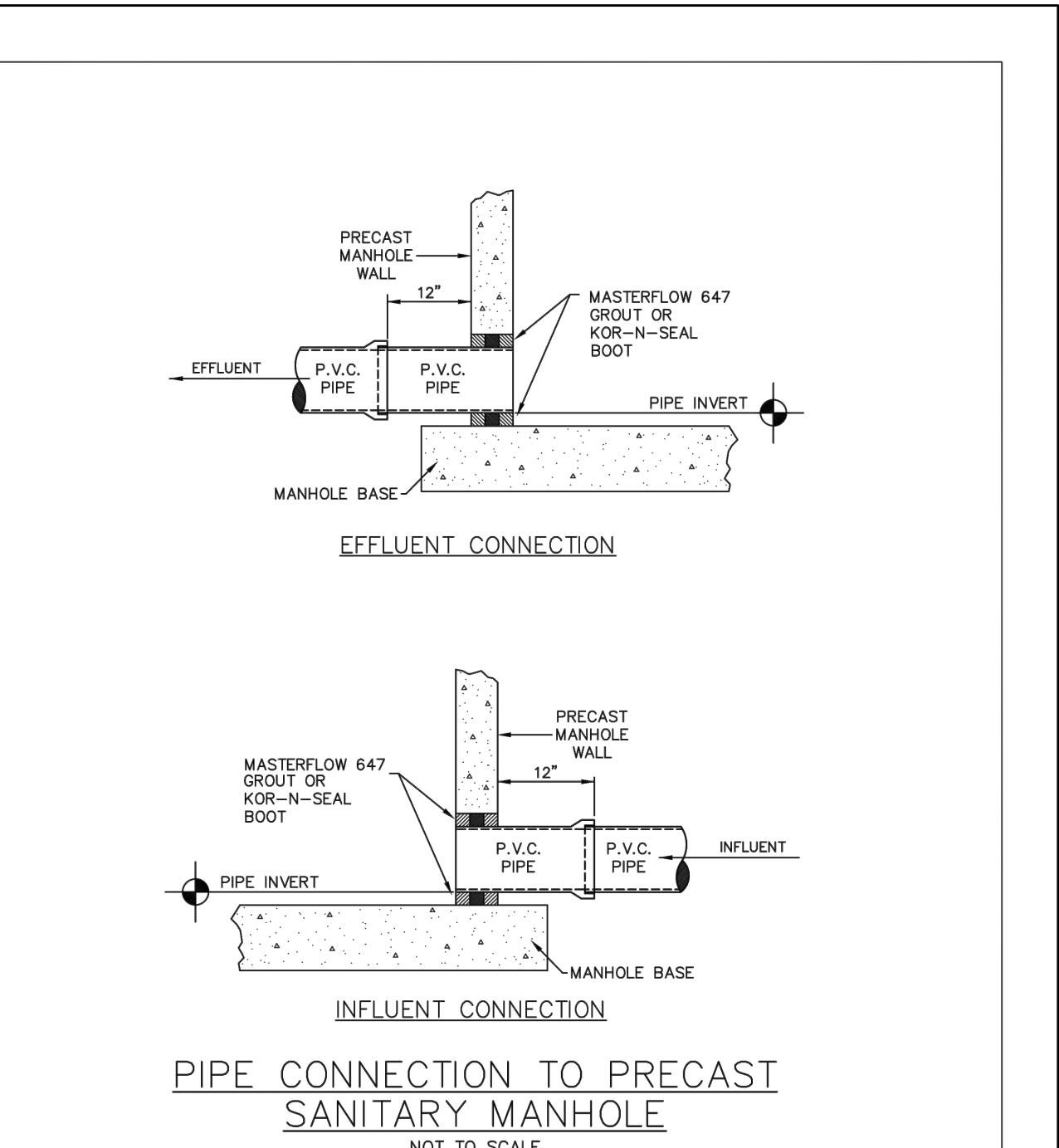
City of Fruitland Park Standard Details
STANDARD MANHOLE
Detail S-1



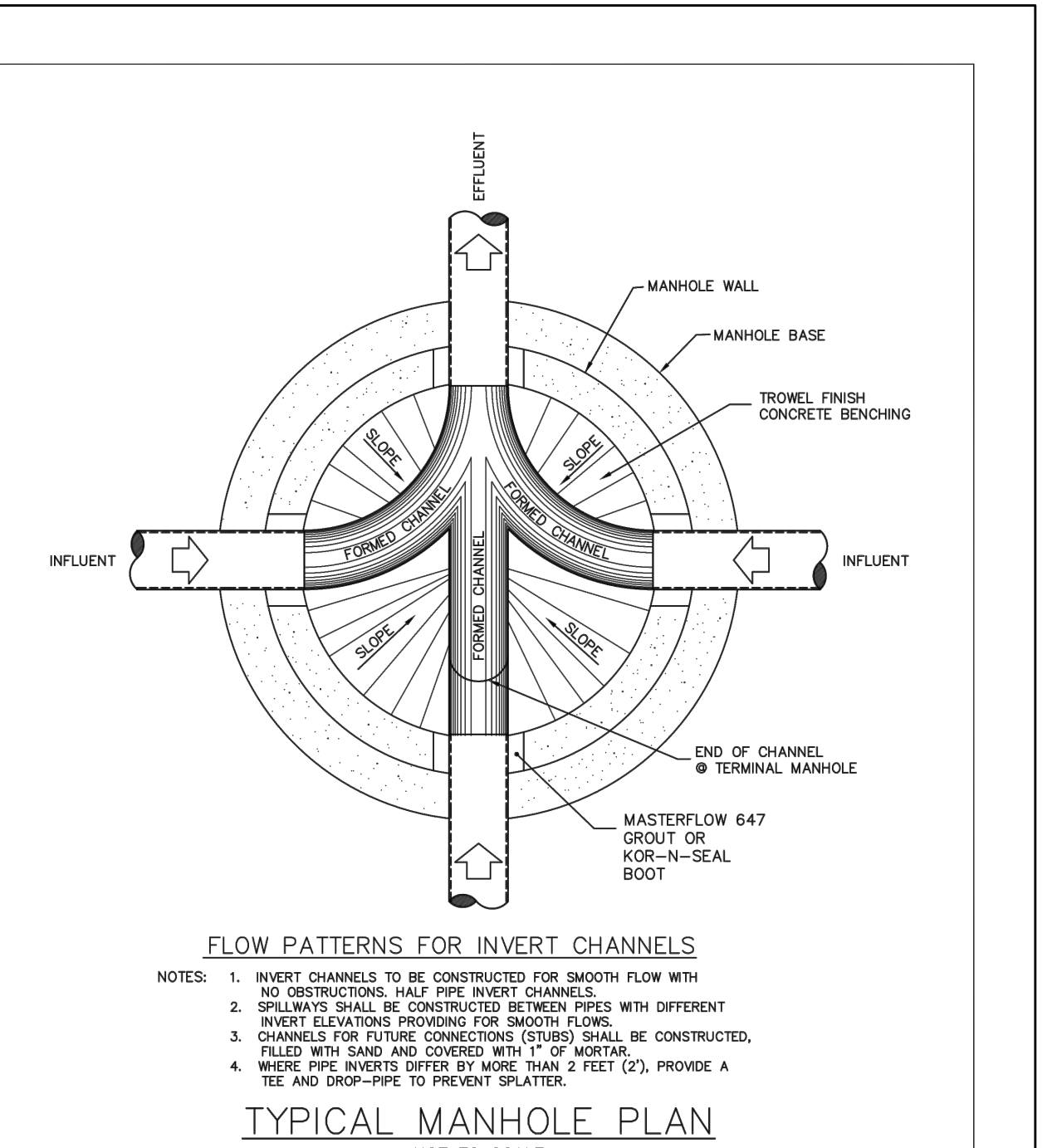
City of Fruitland Park Standard Details
Detail S-1a



City of Fruitland Park Standard Details
DROP MANHOLES AND MANHOLES WITH INFLUENT FORCEMAIN
Detail S-1B



City of Fruitland Park Standard Details
Detail S-2



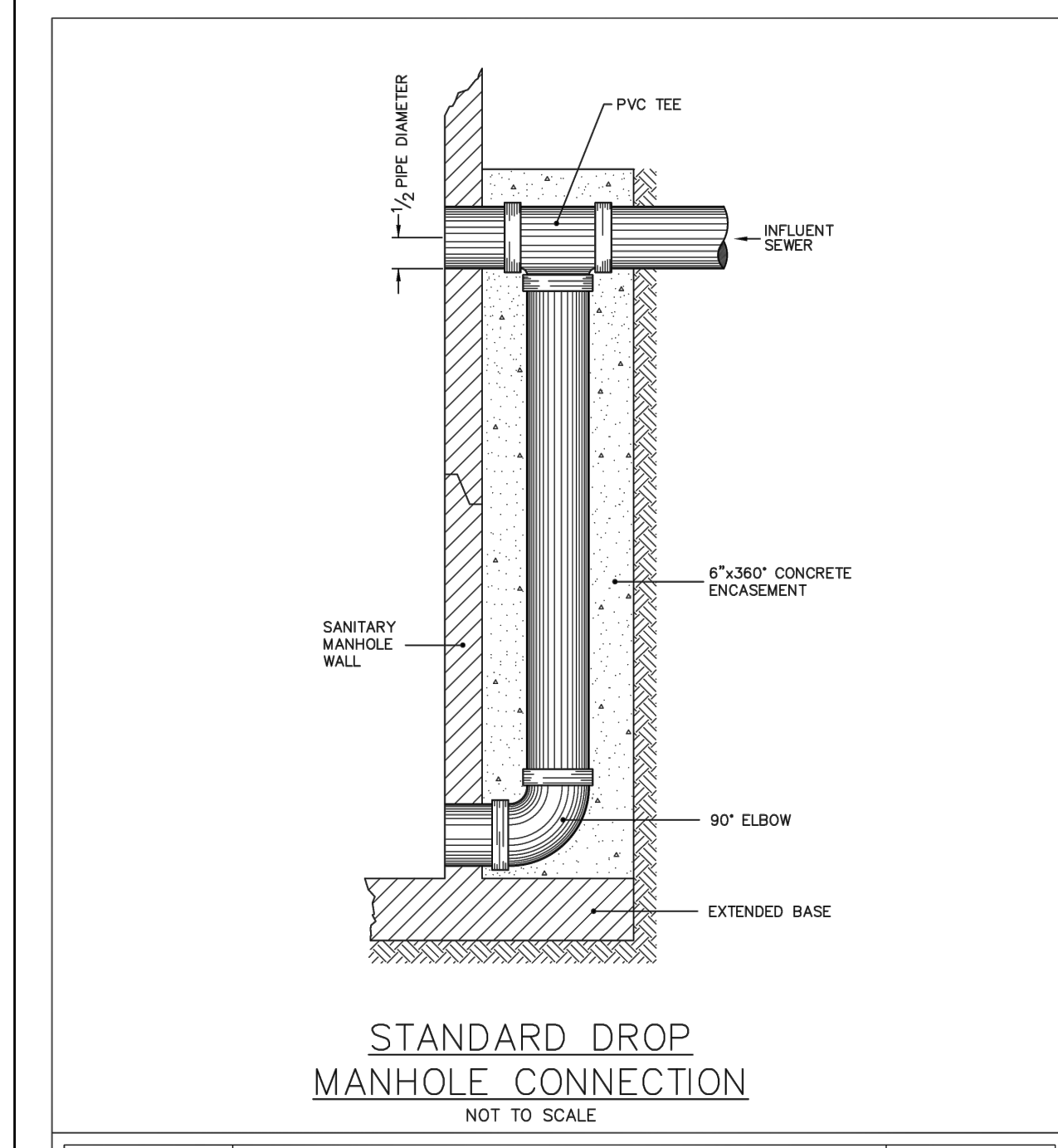
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Detail S-3

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ARCHITECTURE

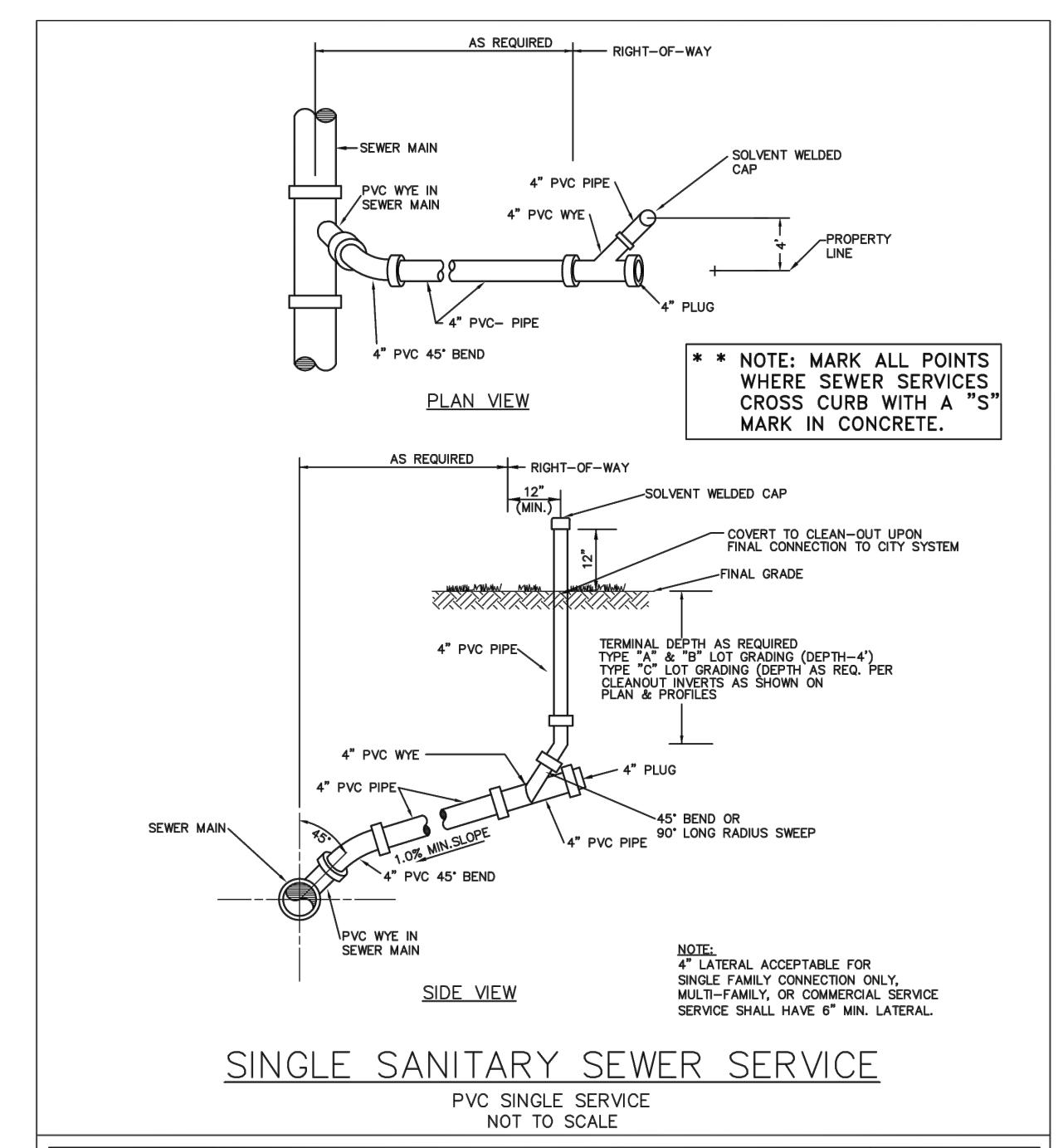
200 E. Robinson Street
Suite 300
Orlando, FL 32801
voice 407-872-3322
fax 407-872-3303

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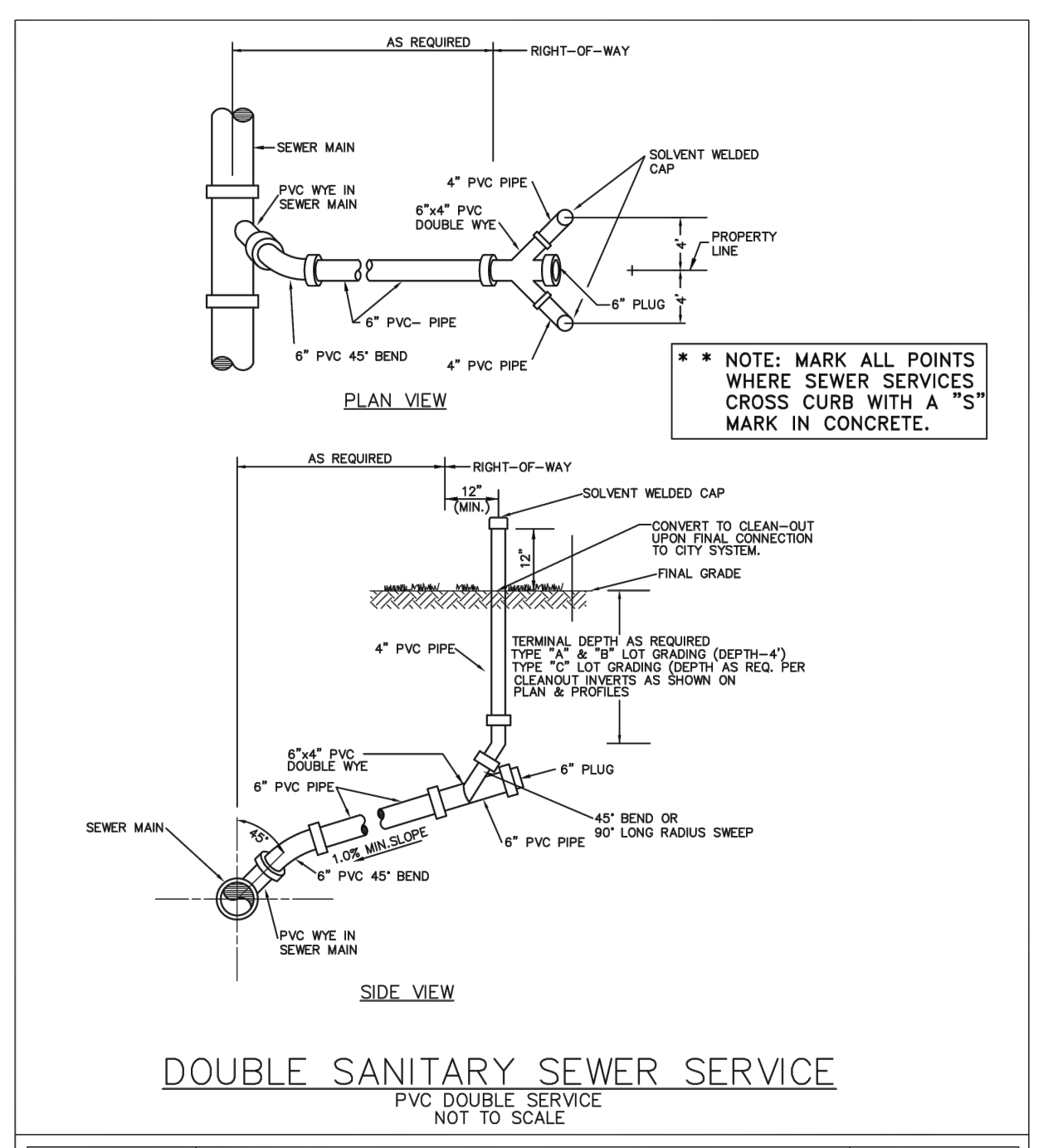
REVISIONS		
MARK	DESCRIPTION	DATE



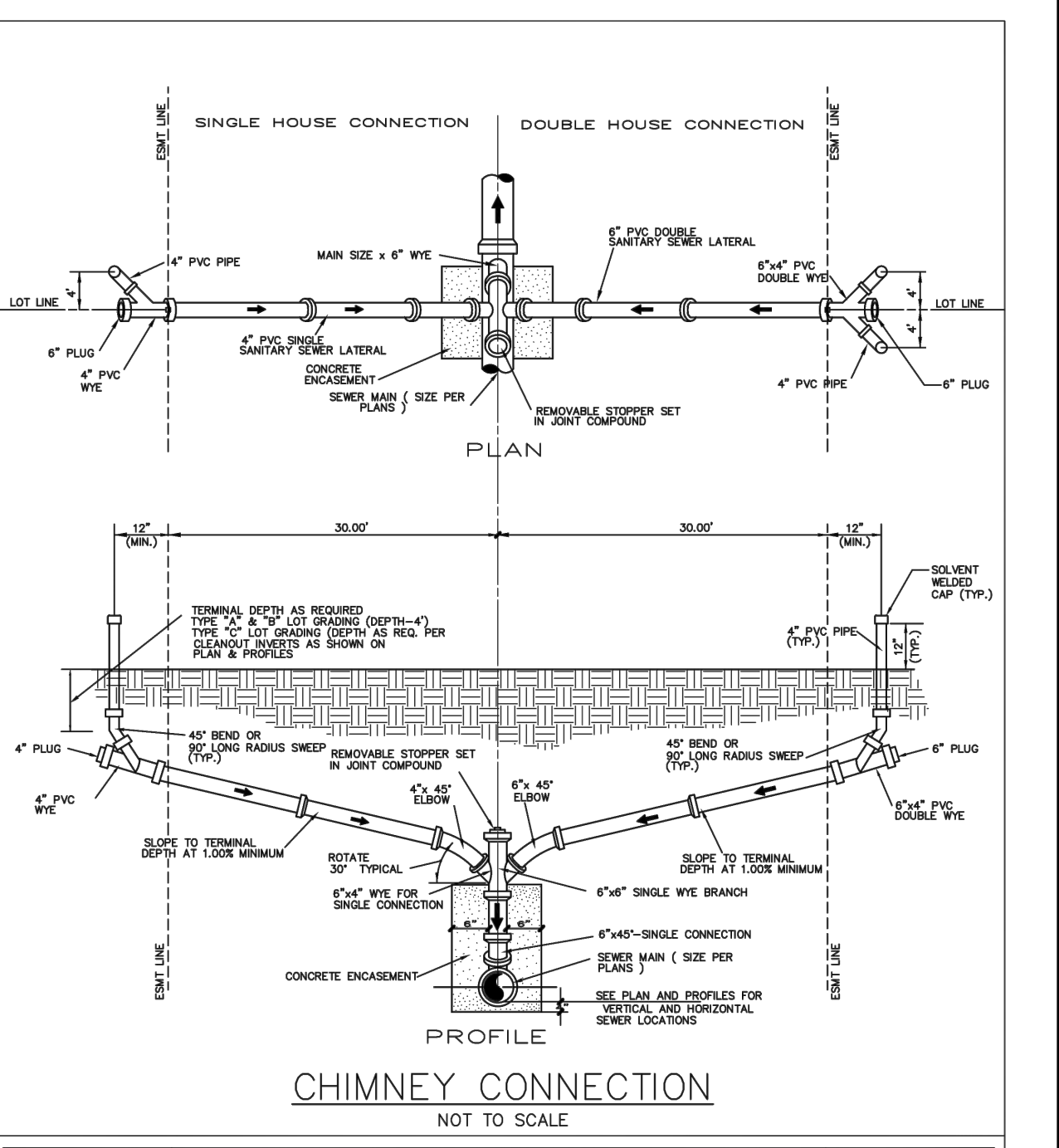
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Detail S-4



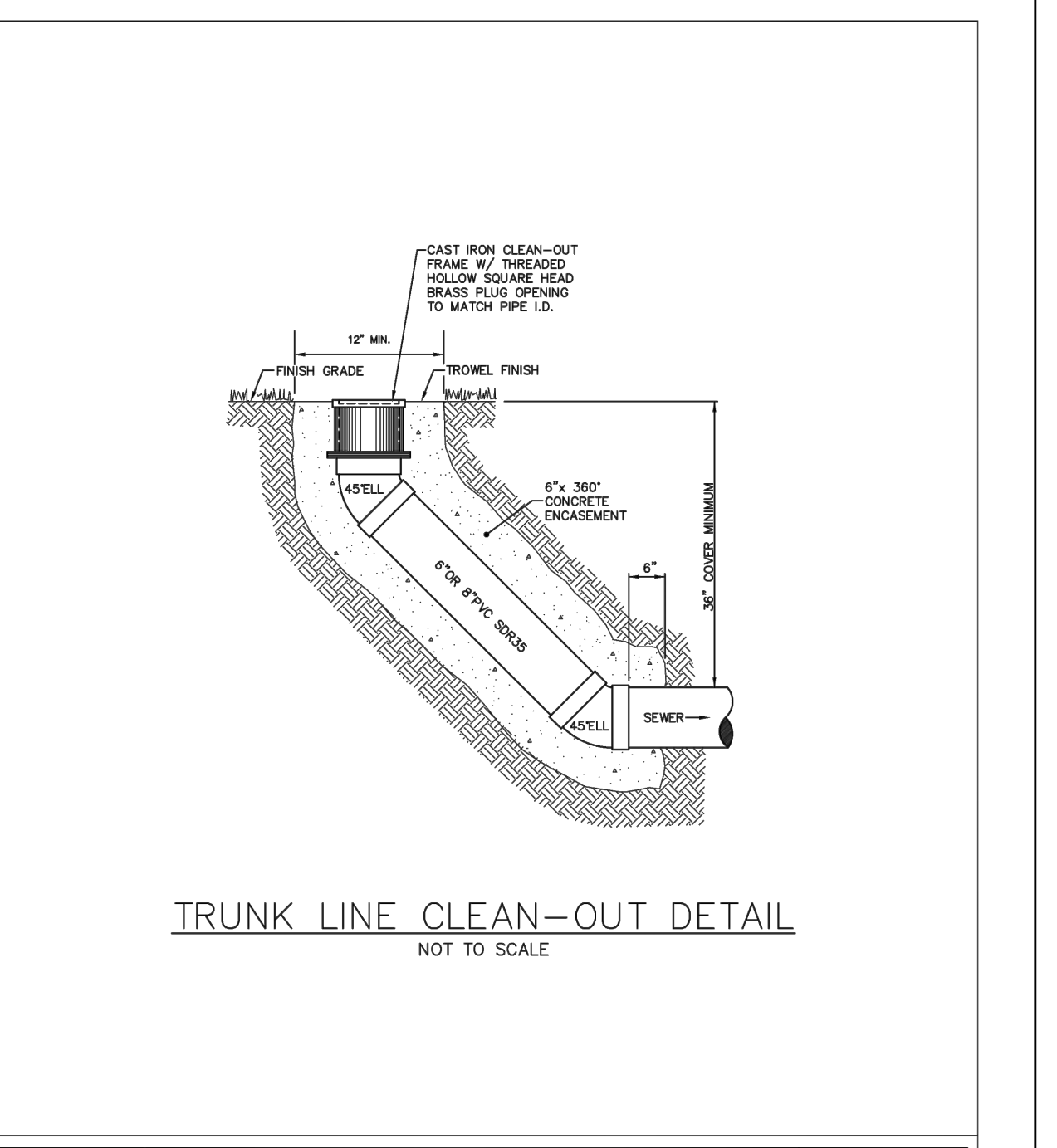
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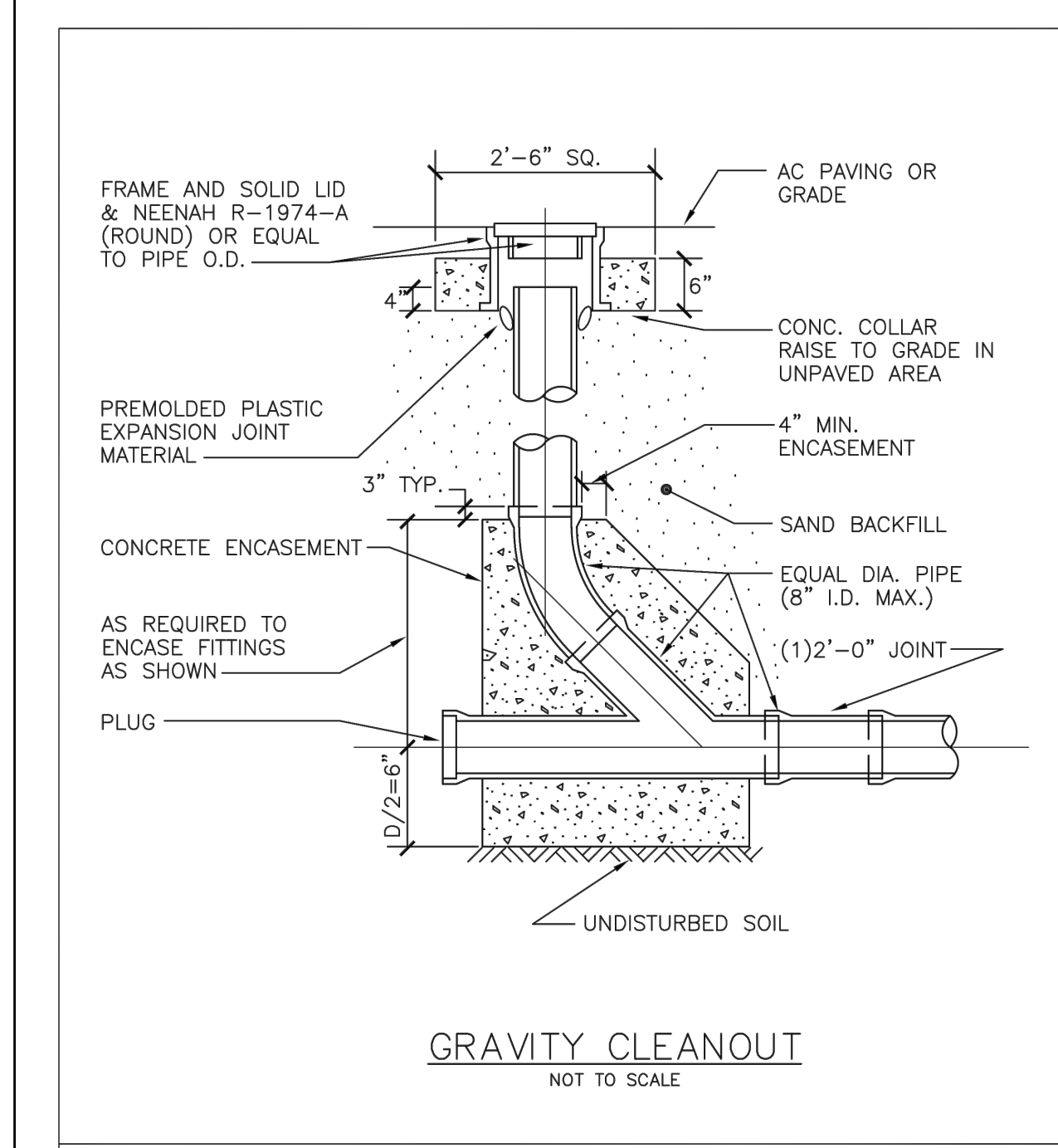
City of Fruitland Park Standard Details
Detail S-6



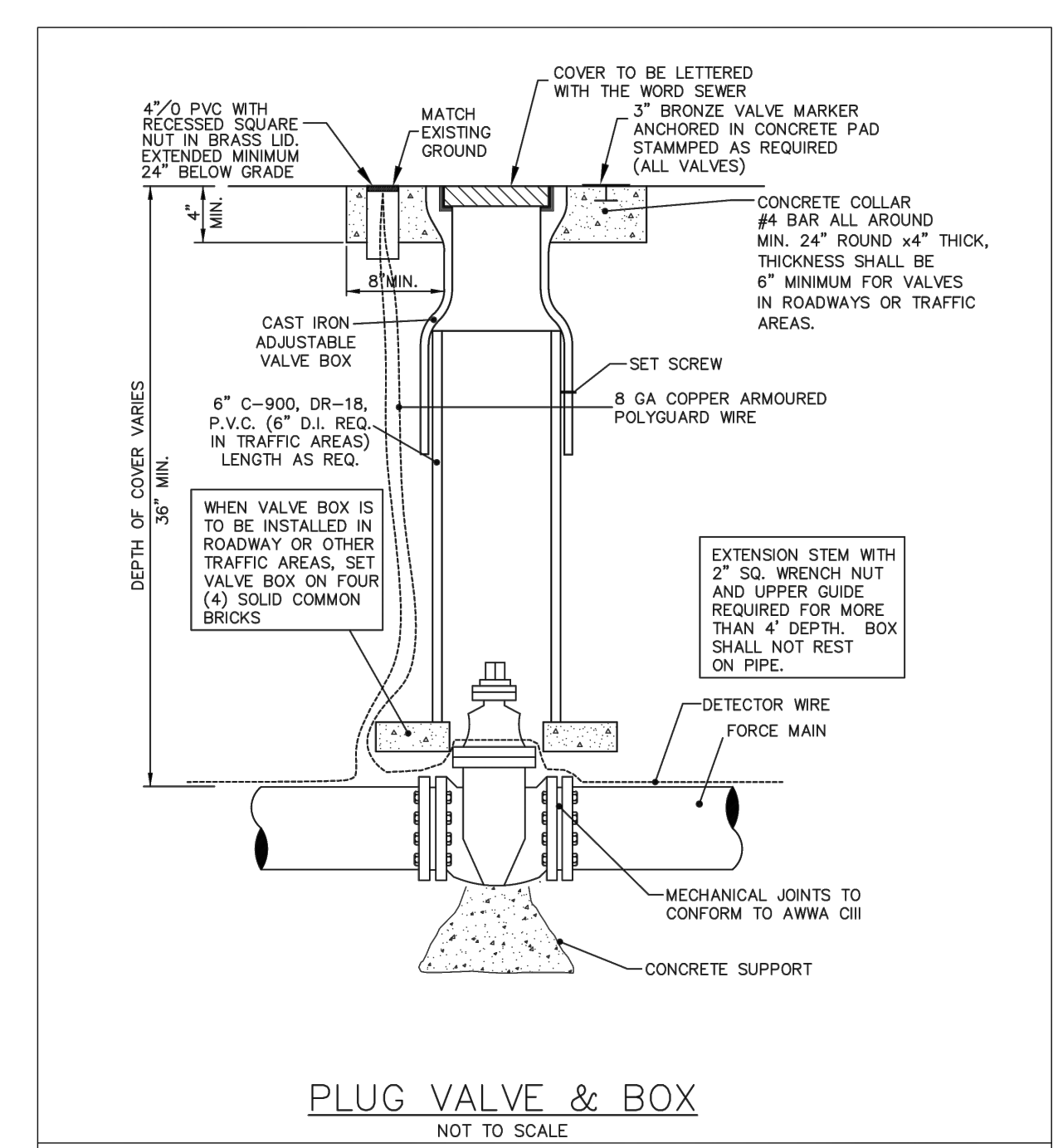
City of Fruitland Park Standard Details
Detail S-7



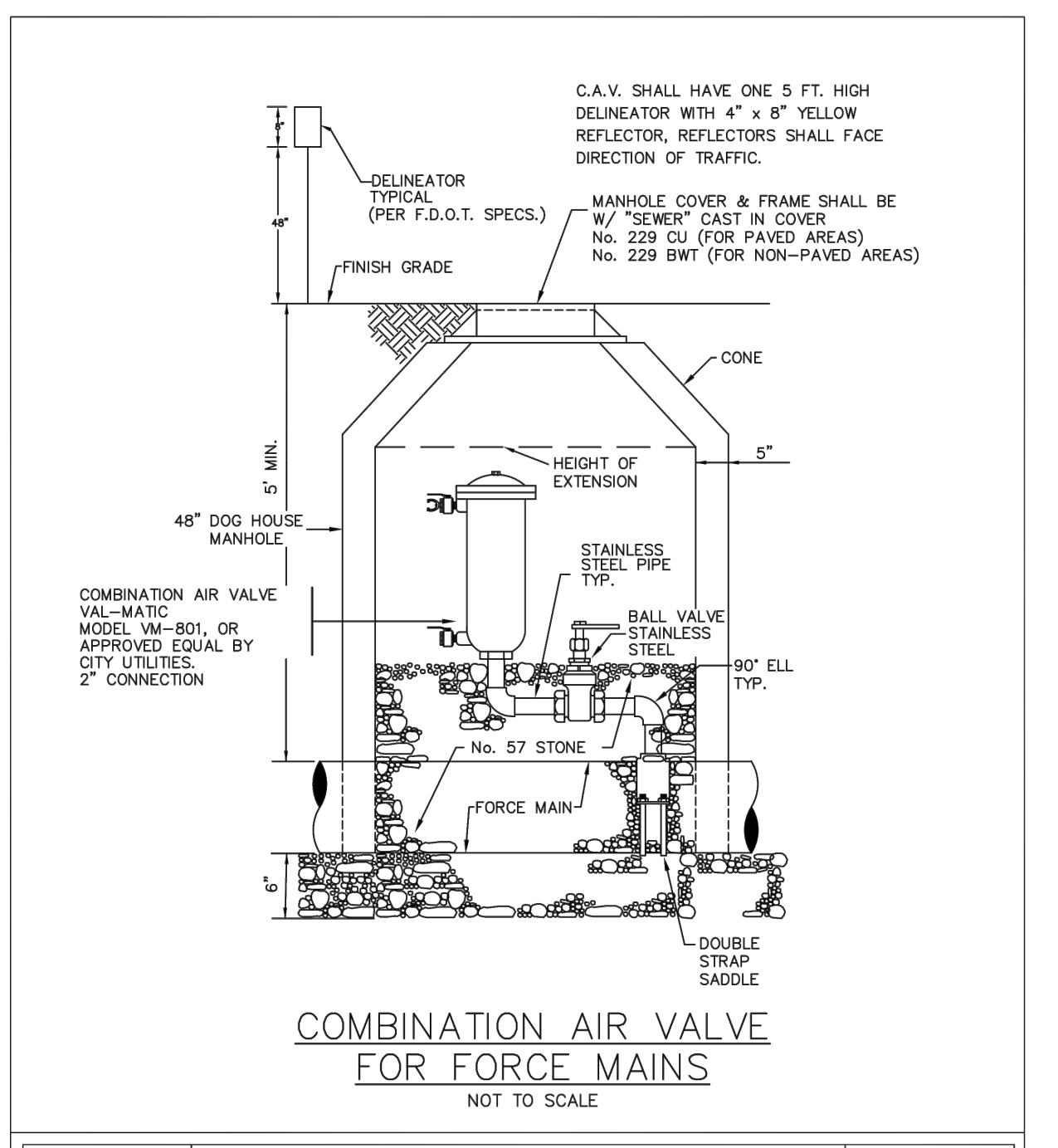
City of Fruitland Park Standard Details
Detail S-8



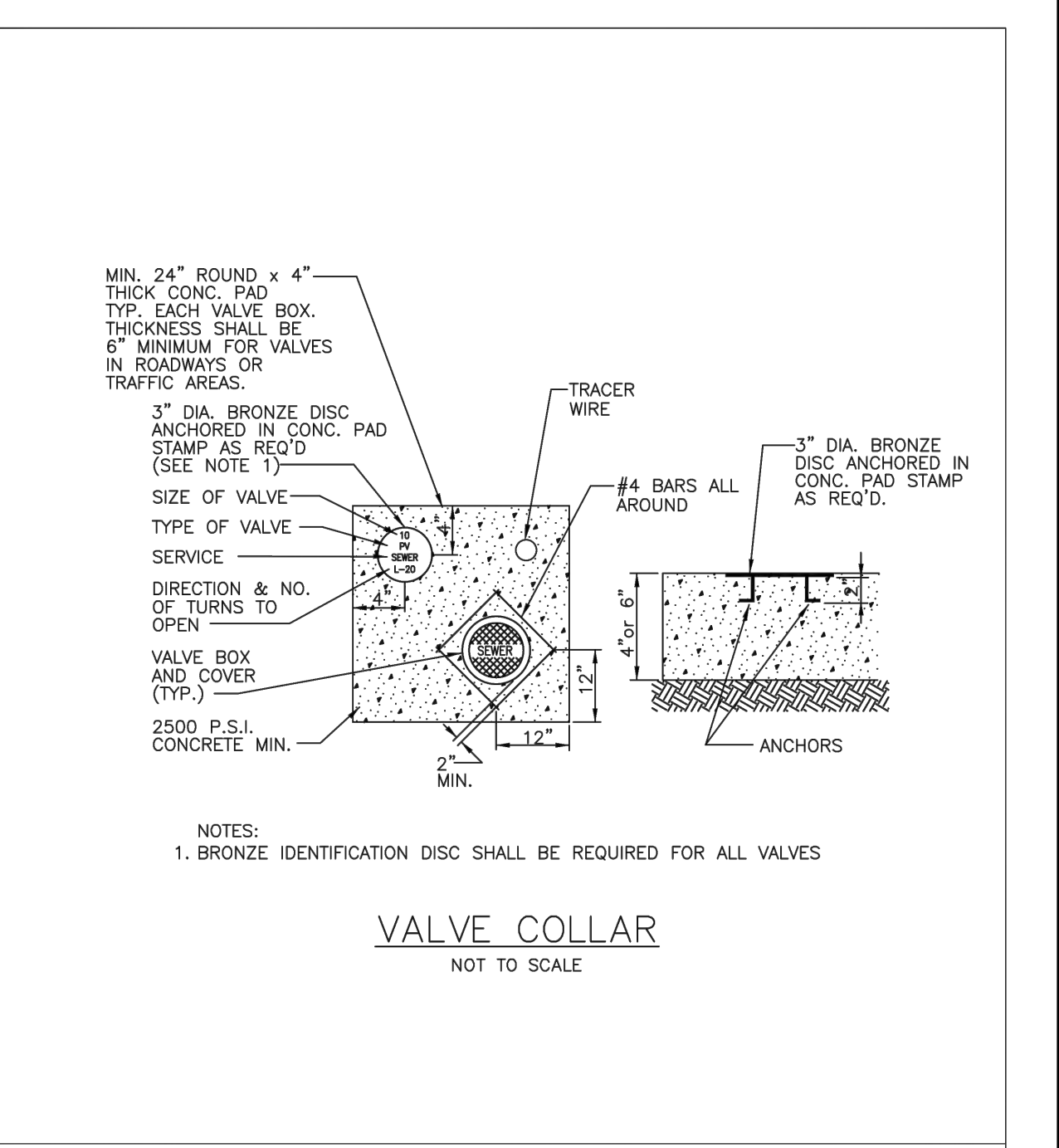
City of Fruitland Park Standard Details
Detail S-9



City of Fruitland Park Standard Details
Detail S-12



City of Fruitland Park Standard Details
Detail S-13



City of Fruitland Park Standard Details
Detail S-14

FRUITLAND PARK ELEMENTARY SCHOOL REPLACEMENT



ISSUE DATE: 8/16/2023
COMM. NO.: 2023100
DRAWN BY: JDO CHECKED BY: JAK

UTILITY DETAILS
C-803

100% CONSTRUCTION DOCUMENTS - EARLY PACKAGE

ALAMONTE SPRINGS, FL 32714
TELEPHONE 407.478.8150
FAX 407.478.8151
WWW.HITROVERS.COM

Klima Weeks
CIVIL ENGINEERING

JAY A. KLIMA, P.E.
FL P.E. #49945

RILEY & Company, Inc. (H-20 GP)

w/ BATTERY BACK-UP FOR AUDIO AND VISUAL ALARMS ©

RILEY & Company, Inc.
 5491 Benchmark Lane
 Sanford, FL 32773
 PH. 407-265-9963

SCHENKELSHULTZ
 ARCHITECTURE

200 E. Robinson Street
 Suite 300
 Orlando, FL 32801
 voice 407-872-3322
 fax 407-872-3303

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SCOPE: Supply one complete H-20 GP Pre-Fab Lift Station, per design.
 Pumps shall be capable of grinding and pumping domestic & commercial sewage.

Complete system shall be supplied by:
 RILEY & Company, Inc.
 Sanford, FL 32773 (Ph. 407-265-9963)
 NO SUBSTITUTIONS – NO ALTERNATES

PUMPS AND ELECTRICAL CONTROL PANEL MUST BE WARRANTED FOR A MINIMUM OF 3 YEARS.

FIBERGLASS WETWELL MUST BE WARRANTED FOR A MINIMUM OF 20 YEARS.

The H-20 Load Rated Fiberglass Wetwell Must Be Manufactured By L.F. Manufacturing, Giddings, Texas, Which Includes A Written 20 Yr. Warranty
 Certification of the wetwell H-20 load rating must be supplied with submittals.
 H-20 certification must be signed and sealed by an engineer registered in the State of Florida.

After the H-20 load rated wetwell has been installed, the ASTM Certification Number and Serial Tracking Number must be visible.

PUMPS: (3 YEAR WARRANTY)

Submersible grinder pumps shall be RILEY Model RC30061 installed in the H-20 GP FRP wetwell utilizing a dual slide rail system. The grinder unit shall be capable of macerating materials normally found in domestic and commercial sewage into a fine slurry which will pass through the pump and the Sch.80 PVC discharge piping.

Stator winding shall be open type with Class F insulation and shall be heat-shrink fitted into the stator housing. The use of pins, bolts, or other fastening devices is not acceptable.

A heat sensor thermostat shall be attached to the top end of the motor winding and shall be connected in series with the magnetic contactor coil in the control panel to stop motor if winding temperature exceeds 140 C., but shall automatically reset when the winding temperature returns to normal. Two heat sensor thermostats shall be used on three phase motors.

The pump motor grinder shaft shall be AISI 430F SS threaded to take the pump impeller and the grinder impeller.

Upper & lower mechanical seals shall be Silicon Carbide vs Silicon Carbide.

FASTENERS & APPURTANCES: All fasteners, lifting cables, float cable bracket, hinges, and appurtenances shall be made of AISI 304SS.

A 304SS slide/latch assembly shall be provided for holding the doors open on the wetwell and valve box. Slide rails shall be made of SCH.40 AISI 304SS pipe. Pump lifting cables shall be made of AISI 304 SS. Pump lifting bales shall be made of AISI 304 SS.

H-20 LOAD RATED WETWELL WITH LIFTING LUGS:

The fiberglass wetwell must be H-20 load rated with integral lifting lugs, fiberglass slope in bottom of wetwell and valve box. Certification of the H-20 load rating must be supplied at the time of submittals to Engineer. The wetwell shall be manufactured of fiberglass reinforced polyester (FRP) of depth and diameter as shown on the lift station elevation detail. The wall thickness shall be adequate for the depth of the wetwell to maintain the H-20 LOAD RATING.

EXECUTION:

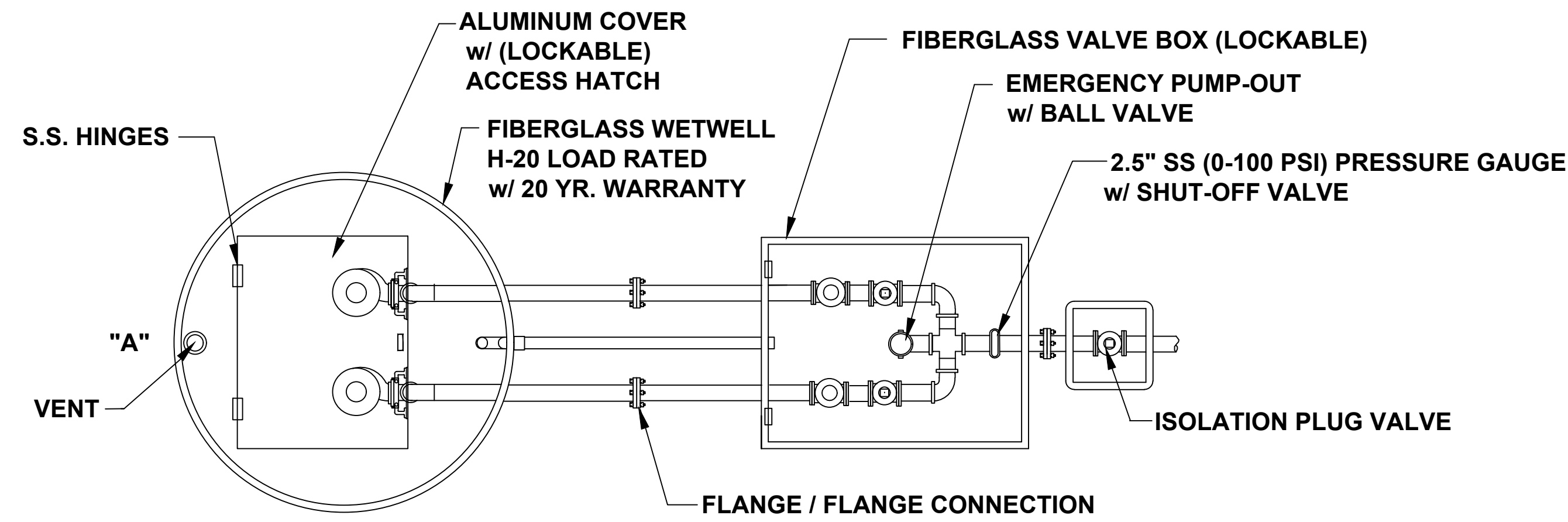
Installation shall be in strict accordance with the manufacturer's recommendations in the locations shown on the drawing.

INSPECTION & TESTING: A factory representative shall be provide for a one (1) time start-up and shall have complete knowledge of the proper operation and maintenance of complete system.

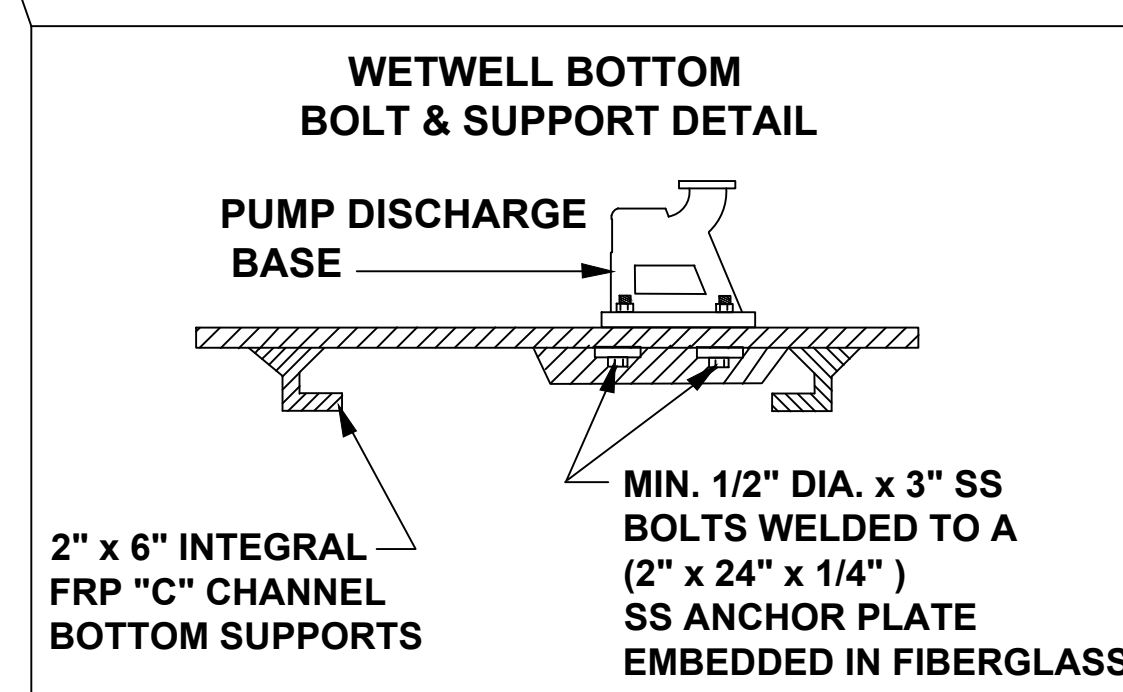
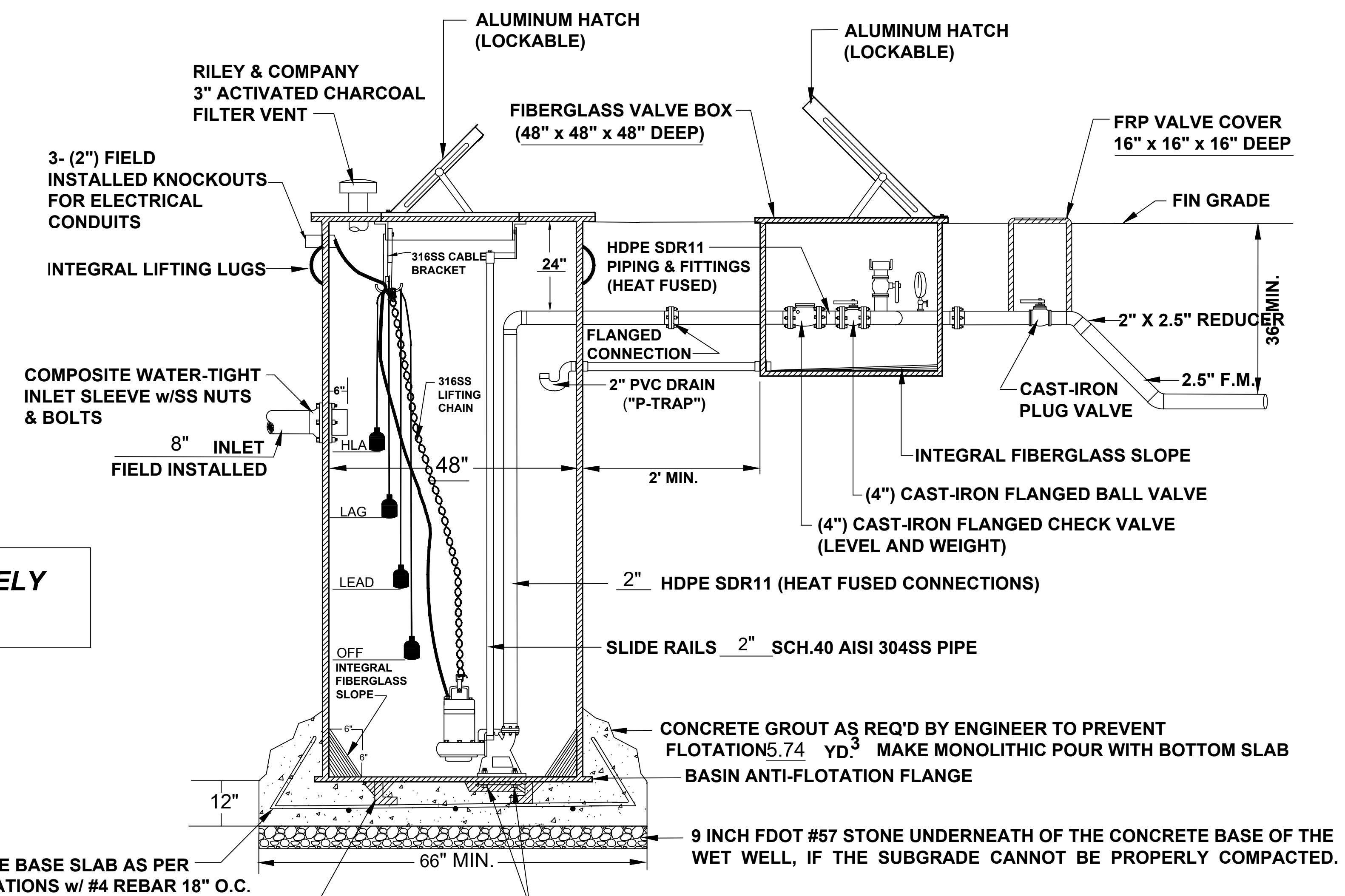
Megger the motors. The pump motors shall be meggered out prior to the start-up to ensure that the insulation of the pump motor/cable is intact. The pump controls and pumps shall be checked for mechanical reliability and proper operation.

LIFT STATION WILL BE PRIVATELY OWNED AND MAINTAINED.

PUMP DATA		ELEVATIONS	
PRIMARY PUMP CAPACITY	31 GPM	TOP OF WETWELL	140.00
PRIMARY TDH	78.8' TDH	INLET INVERT	130.35
PUMP MANUFACTURER	HOMA	HIGH LEVEL ALARM (HLA)	129.35
PUMP MODEL #	GPR24/3	2nd PUMP ON (LAG)	129.35
R.P.M.	3450	1st PUMP ON (LEAD)	128.35
HORSEPOWER	3.7 HP	PUMPS OFF (OFF)	127.35
ELECTRICAL/ VOLTS / PHASE	230V	BOTTOM OF WETWELL	125.35
PUMP DISCHARGE SIZE	2"	WETWELL DIAMETER	4'



NOTE: PUMP CONTROL PANEL SHALL BE LOCATED 3 FEET FROM WETWELL PERIMETER AT POINT "A"



JAY A. KLIMA, P.E.
 FL P.E. #49945



FRUITLAND PARK
 ELEMENTARY SCHOOL
 REPLACEMENT

Fruitland Park, FL



LAKE COUNTY SCHOOLS
 201 WEST BURLEIGH BLVD., TAVARES, FL 32778

ISSUE DATE: 8/16/2023

COMM. NO.: 2023100

DRAWN BY: JDO

CHECKED BY: JAK

LS DETAILS

C-900

RILEY & CO. / H-20 GP 09-29-16

RILEY & Company, Inc.
5491 Benchmark Lane
Sanford, FL 32773
PH. 407-265-9963

RILEY & Company, Inc. (H-20 GP)

w/ BATTERY BACK-UP FOR AUDIO AND VISUAL ALARMS

SCOPE: Supply one complete H-20 GP Pre-Fab Lift Station, per design.
Pumps shall be capable of grinding and pumping domestic & commercial sewage.
Complete system shall be supplied by:
RILEY & Company, Inc.
Sanford, FL 32773 (Ph. 407-265-9963)
NO SUBSTITUTIONS - NO ALTERNATES

PUMPS AND ELECTRICAL CONTROL PANEL MUST BE WARRANTED FOR A MINIMUM OF 3 YEARS.

DUPLEX CONTROL PANEL: (3 YEAR WARRANTY)
To insure complete unit and warranty responsibility the electrical control panel must be manufactured and built by the pump supplier. The pump supplier must be a TUV (UL508A CERTIFIED) manufacturing facility, with a minimum of 5 years history in the manufacturing of electrical control panels.
The Enclosure shall be NEMA 4X, minimum 30" high x 30" wide x 10" deep aluminum with 4 point latching system.
The enclosure shall have external mounting feet to allow for wall mounting.
The following components shall be mounted through the enclosure:
1- ea. Red Alarm Beacon (Light) 4" x 4" Minimum Diameter
1- ea. Alarm Horn (minimum 95 DCB)
1- ea. Generator Receptacle w/ weatherproof cover(SCM460 -UL 1686)
1- ea. Alarm Silence Pushbutton

The back panel shall be fabricated from .125, 5052-H32 marine alloy aluminum. All components shall be mounted by machined stainless steel screws.

The following components shall be mounted to back panel:
2- ea. Motor Contactors
1- ea. Volt Monitor (1 Ph) Phase Monitor (3 Ph) w/2 N/O & 1 N/C Contacts
1- ea. Control Transformer (480 Volt Only) (Min. 500VA)
1- ea. Silence Relay Module
1- ea. Duplex Alternator w/ Pump Selector Switch
1- ea. Model RCBB5AH Battery Back-Up w/ Smart Charger
20- ea. Terminals For Field Connections
6- ea. Terminals For Motor Connections (Single Phase Only)
7- ea. Grounding Lugs
1- ea. Seal Failure Relay

The inner door shall be fabricated from .080, 5052-H32 marine alloy aluminum. The inner door shall have a continuous aluminum piano hinge.

The following components shall be mounted through the inner door:
1- ea. Main Circuit Breaker
1- ea. Emergency Circuit Breaker
1- ea. Mechanical Interlock For Emergency And Main Breakers (UL Listed)
2- ea. Short Circuit Protectors w/ Auxiliary Contacts
1- ea. Control Circuit Breaker
2- ea. Seal Failure Indicator Lights
1- ea. Hand-Off-Auto Selector Switches
2- ea. Pump Run Pilot Lights
1- ea. Power On Pilot Light
2- ea. Elapse Time Meters (Non-Resetable)
1- ea. GFI Duplex Convenience Outlet

COMPONENT SPECIFICATIONS:
All circuit breakers shall be molded thermal magnetic. The mechanical interlock shall prevent the normal and emergency main breakers being energized at the same time.
An emergency generator receptacle shall be supplied in accordance with DEP standards. The generator receptacle shall be adequately sized to meet the equipment operating conditions.

NEUTRAL TO BE SUPPLIED FOR BOTH 230V 3PHASE OR 230V SINGLE PHASE POWER

All motor short circuit protection devices must provide for under voltage release and class 10 overload protection on all three phases. Visible trip indication, test, and reset capability must be provided without opening inner door.
Open frame, across the line, contactors shall be rated per IEC standards and properly sized per the motor requirements. Contactors shall provide for safe touch power and control terminals.
Lightning Arrestor shall meet UL1449 3rd Edition or exceed the requirements of ANSI/IEEE Std. C62.21-1984 section 8.6.1. and 8.7.3 shall be supplied by electrician and mounted on the bottom side of the switch disconnect ahead of the pump control panel.
A voltage monitor shall be supplied for single phase service. A phase monitor shall be supplied for (3) phase service. A green pilot light shall be supplied for each motor. The pilot light shall illuminate each time the motor is called to run. Each pump shall have an Elapse Time Meter to record the accumulated run time. The ETM shall be 2" diameter, non-resettable, six digit, totally encapsulated unit. A Red pilot light shall be supplied for control power. The pilot light shall illuminate when the control power is available inside the control panel.
Relays shall be ice-cube plug in type. Relay contacts shall be rated 10 amp minimum, DPDT.
Twenty (20) terminals shall be supplied for field connections. The terminals shall be rated 25 amps minimum.
Each motors over-temperature contact shall be connected to the terminal strip and shall open a contact to de-energize the appropriate motor upon a high temperature within the motor. A 15 Amp GFI duplex receptacle shall be supplied and mounted on the innerdoor.
Ground lugs shall be supplied and appropriately sized for each motor and for service entrance.

MISCELLANEOUS: All wiring on the back panel shall be contained within the wiring duct. All wiring between the inner door and the back panel shall be contained with in a plastic spiral wrap. Each wire shall have a wire number at each end to correspond to the as built drawing for field troubleshooting.
The control panel must be manufactured in-house by lift station supplier and be a TUV (UL508A Certified) facility.

FASTENERS & APPURTANCES: All fasteners, lifting cables, float cable bracket, hinges, and appurtenances shall be made of AISI 304SS.
A 304SS slide/latch assembly shall be provided tor holding the doors open on the wetwell and valve box.
Slide rails shall be made of SCH.40 AISI 304SS pipe.
Pump lifting cables shall be made of AISI 304 SS.
Pump lifting bales shall be made of AISI 304 SS.

H-20 LOAD RATED WETWELL WITH LIFTING LUGS:
The fiberglass wetwell must be H-20 load rated with integral lifting lugs, fiberglass slope in bottom of wetwell and valve box. Certification of the H-20 load rating must be supplied at the time of submittals to Engineer. The wetwell shall be manufactured of fiberglass reinforced polyester (FRP) of depth and diameter as shown on the lift station elevation detail. The wall thickness shall be adequate for the depth of the wetwell to maintain the H-20 LOAD RATING.

EXECUTION:
Installation shall be in strict accordance with the manufacturer's recommendations in the locations shown on the drawing.

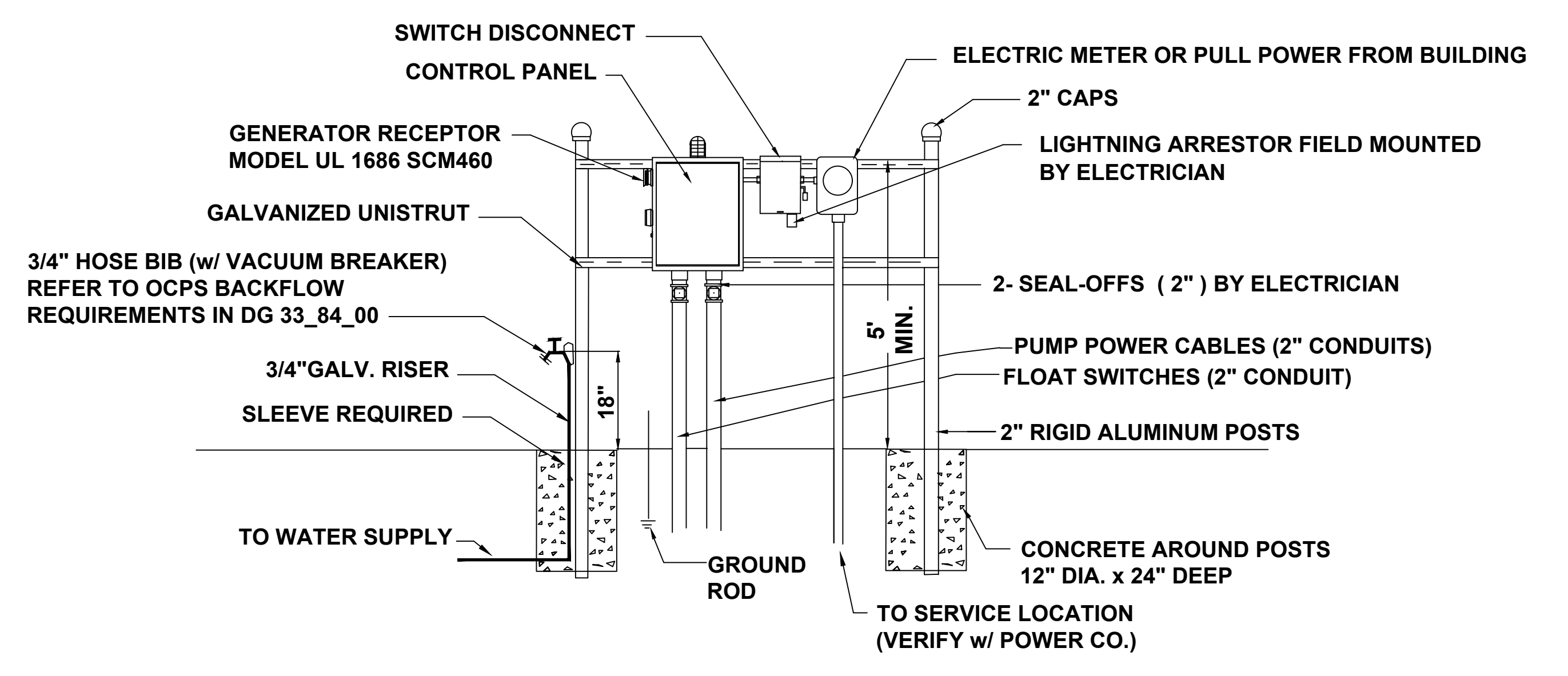
INSPECTION & TESTING: A factory representative shall be provide for a one (1) time start-up and shall have complete knowledge of the proper operation and maintenance of complete system.
Megger the motors. The pump motors shall be megged out prior to the start-up to ensure that the insulation of the pump motor/cable is intact.
The pump controls and pumps shall be checked for mechanical reliability and proper operation.

LIFT STATION WILL BE PRIVATELY OWNED AND MAINTAINED.

PUMP DATA	
PRIMARY PUMP CAPACITY	31 GPM
PRIMARY TDH	78.8' TDH
PUMP MANUFACTURER	HOMA
PUMP MODEL #	GPR24/3
R.P.M.	3450
HORSEPOWER	3.7 HP
ELECTRICAL/ VOLTS / PHASE	230V
PUMP DISCHARGE SIZE	2"

- * ELECTRICIAN NOTES:**
- DRAWING NOT TO SCALE
 - ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES
 - ELECTRICIAN SHALL SEAL OFF CONDUIT RUNS
 - ELECTRICIAN TO MOUNT LIGHTNING ARRESTOR AT SWITCH DISCONNECT
 - CONTRACTOR SHALL VERIFY POWER SOURCE PRIOR TO ORDERING EQUIPMENT
 - NEUTRAL TO BE SUPPLIED FOR 230V-3 PHASE OR 230V-SINGLE PHASE POWER.

RILEY & CO. / H-20 GP 09-29-16



ELECTRICAL RISER FOR ILLUSTRATION PURPOSES ONLY

8101 S.W. 15th Avenue, Suite 100
Altamonte Springs, FL 32714
Telephone 407.478.8150
www.klimaweeks.com

Klima Weeks
CIVIL ENGINEERING

JAY A. KLIMA, P.E.
FL P.E. #49946

FRUITLAND PARK ELEMENTARY SCHOOL REPLACEMENT

Fruitland Park, FL



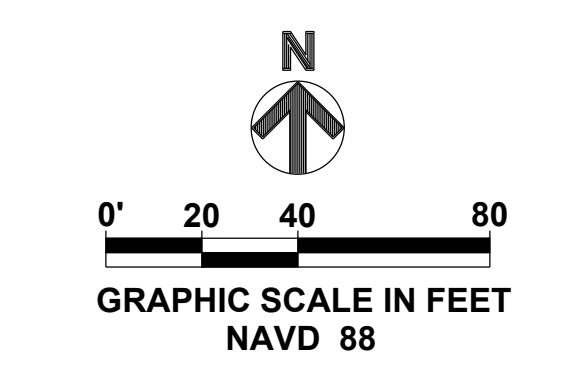
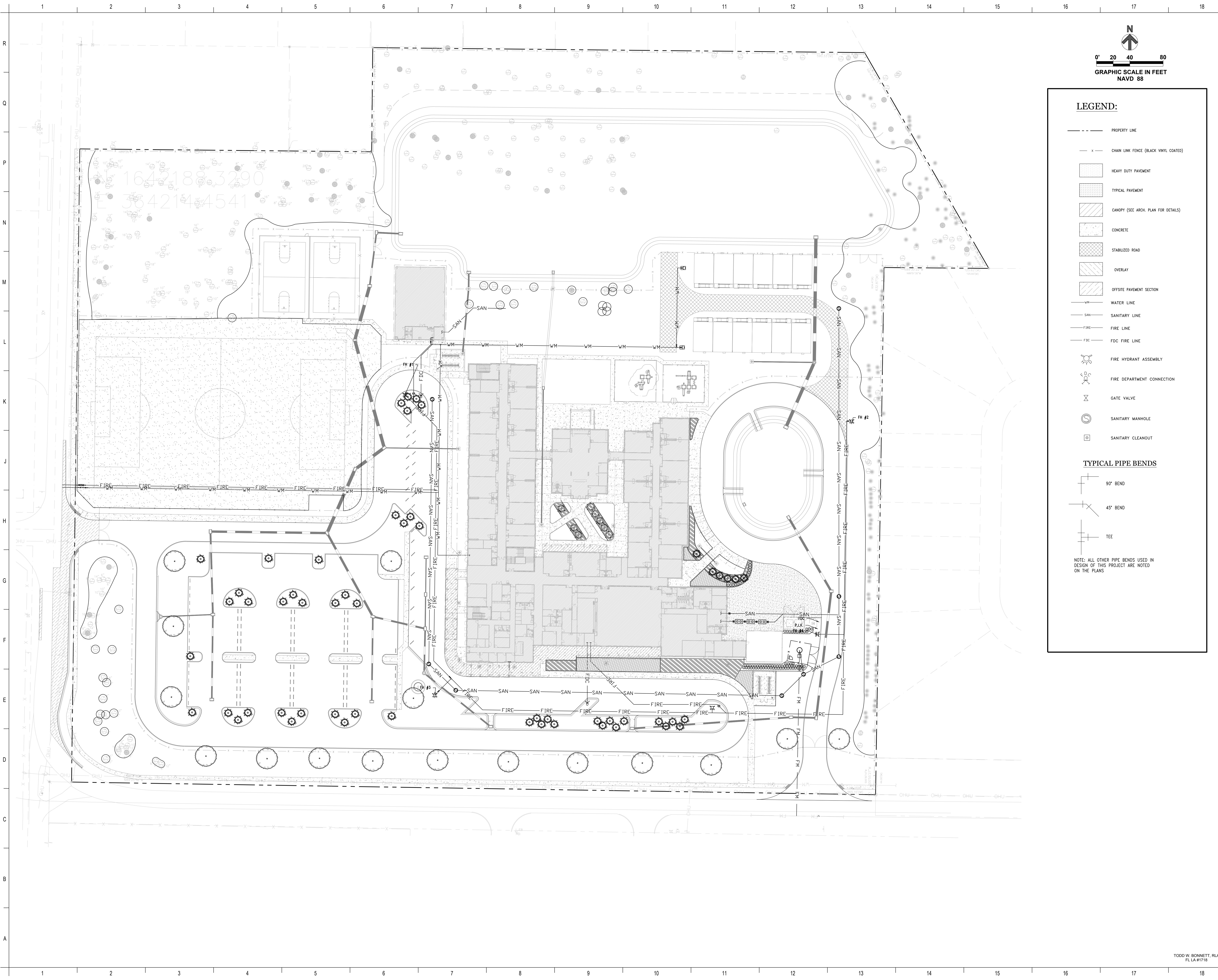
LAKE COUNTY SCHOOLS
201 WEST BURLINGHAM BLVD, TAVARES, FL 32778

ISSUE DATE: 8/16/2023
COMM. NO.: 2023100
DRAWN BY: JDO CHECKED BY: JAK

LS DETAILS

C-901

NOT RELEASED FOR CONSTRUCTION



LEGEND:

- PROPERTY LINE
 - x - CHAIN LINK FENCE (BLACK VINYL COATED)
 - [Pattern] HEAVY DUTY PAVEMENT
 - [Pattern] TYPICAL PAVEMENT
 - [Pattern] CANOPY (SEE ARCH. PLAN FOR DETAILS)
 - [Pattern] CONCRETE
 - [Pattern] STABILIZED ROAD
 - [Pattern] OVERLAY
 - [Pattern] OFFSITE PAVEMENT SECTION
 - WM - WATER LINE
 - SAN - SANITARY LINE
 - FIRE - FIRE LINE
 - FDC - FDC FIRE LINE
 - [Symbol] FIRE HYDRANT ASSEMBLY
 - [Symbol] FIRE DEPARTMENT CONNECTION
 - [Symbol] GATE VALVE
 - [Symbol] SANITARY MANHOLE
 - [Symbol] SANITARY CLEANOUT
- TYPICAL PIPE BENDS**
- [Symbol] 90° BEND
 - [Symbol] 45° BEND
 - [Symbol] TEE
- NOTE: ALL OTHER PIPE BENDS USED IN DESIGN OF THIS PROJECT ARE NOTED ON THE PLANS

SCHENKELSHULTZ
ARCHITECTURE

200 E. Robinson Street
Suite 300
Orlando, FL 32801
voice 407-872-3322
fax 407-872-3303

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FL LA 0001718

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Maitland, FL 32751
407.622.1588

REVISIONS

MARK	DESCRIPTION	DATE

**FRUITLAND PARK
ELEMENTARY SCHOOL
REPLACEMENT**

Fruitland Park, FL



LAKE COUNTY SCHOOLS
201 WEST BURLEIGH BLVD, TAVARES, FL 32778

ISSUE DATE: 8/16/2023
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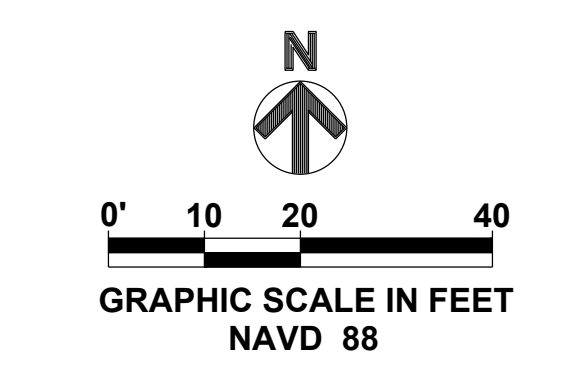
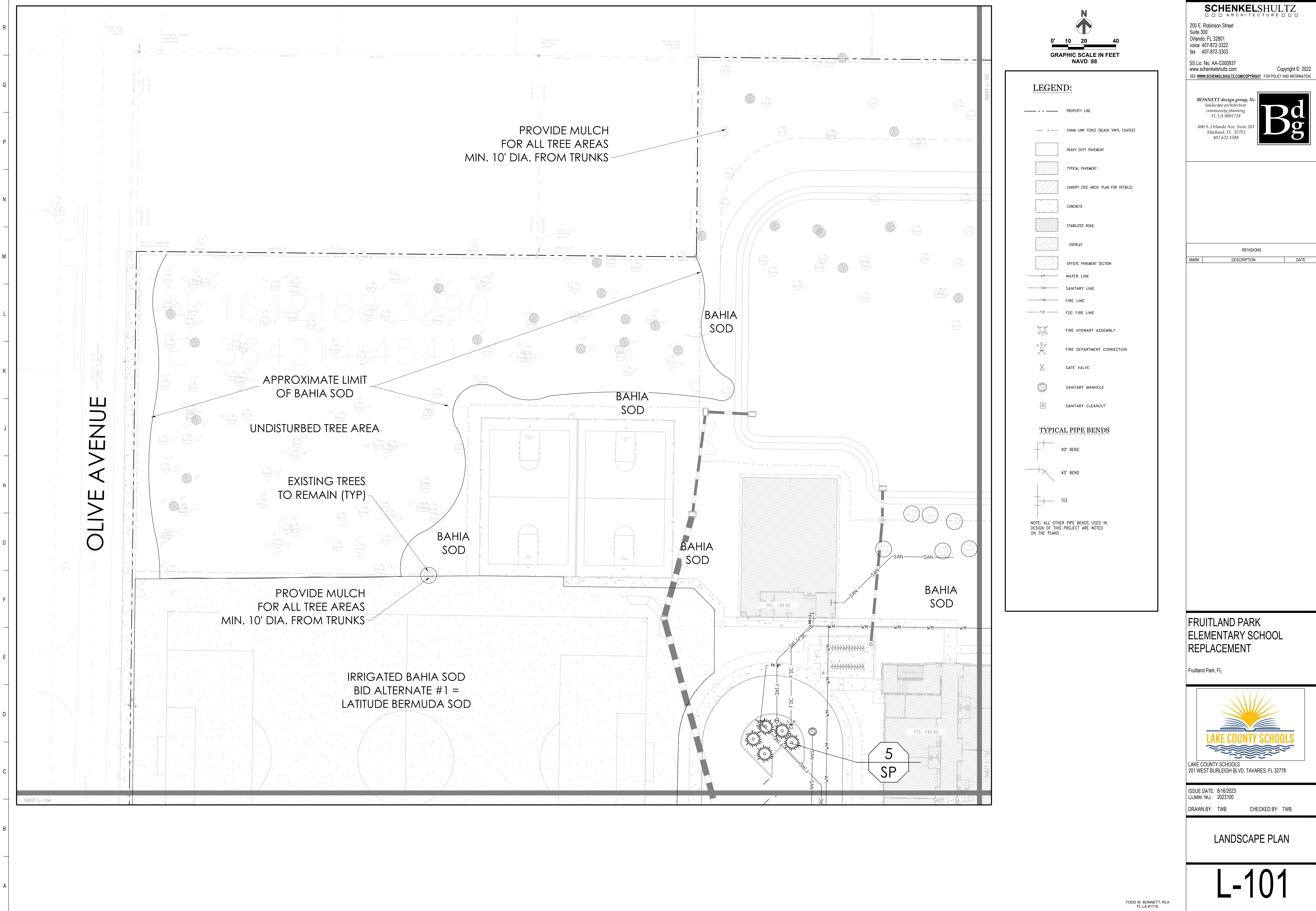
LANDSCAPE PLAN

L-100

TODD W. BONNETT, RLA
FL LA #1718

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4/17/2023 12:58:51 PM Autodesk Docs | 02023100 Fruitland Park ES | 02023100 Fruitland Park ES_A_2023_village | twb | GSEP.rvt



LEGEND:

- PROPERTY LINE
 - x - CHAIN LINK FENCE (BLACK VINYL COATED)
 - [Pattern] HEAVY DUTY PAVEMENT
 - [Pattern] TYPICAL PAVEMENT
 - [Pattern] CANOPY (SEE ARCH. PLAN FOR DETAILS)
 - [Pattern] CONCRETE
 - [Pattern] STABILIZED ROAD
 - [Pattern] OVERLAY
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 - WM --- WATER LINE
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200 E. Robinson Street
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REVISIONS

MARK	DESCRIPTION	DATE

**FRUITLAND PARK
ELEMENTARY SCHOOL
REPLACEMENT**

Fruitland Park, FL

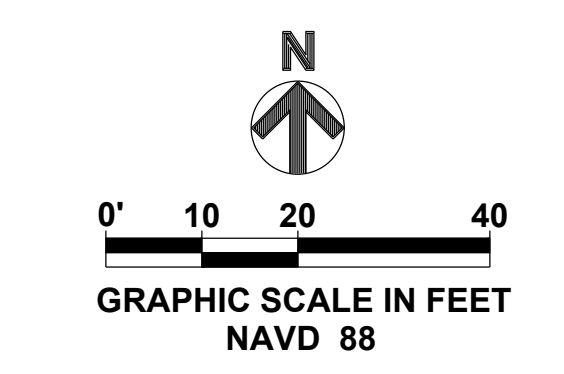
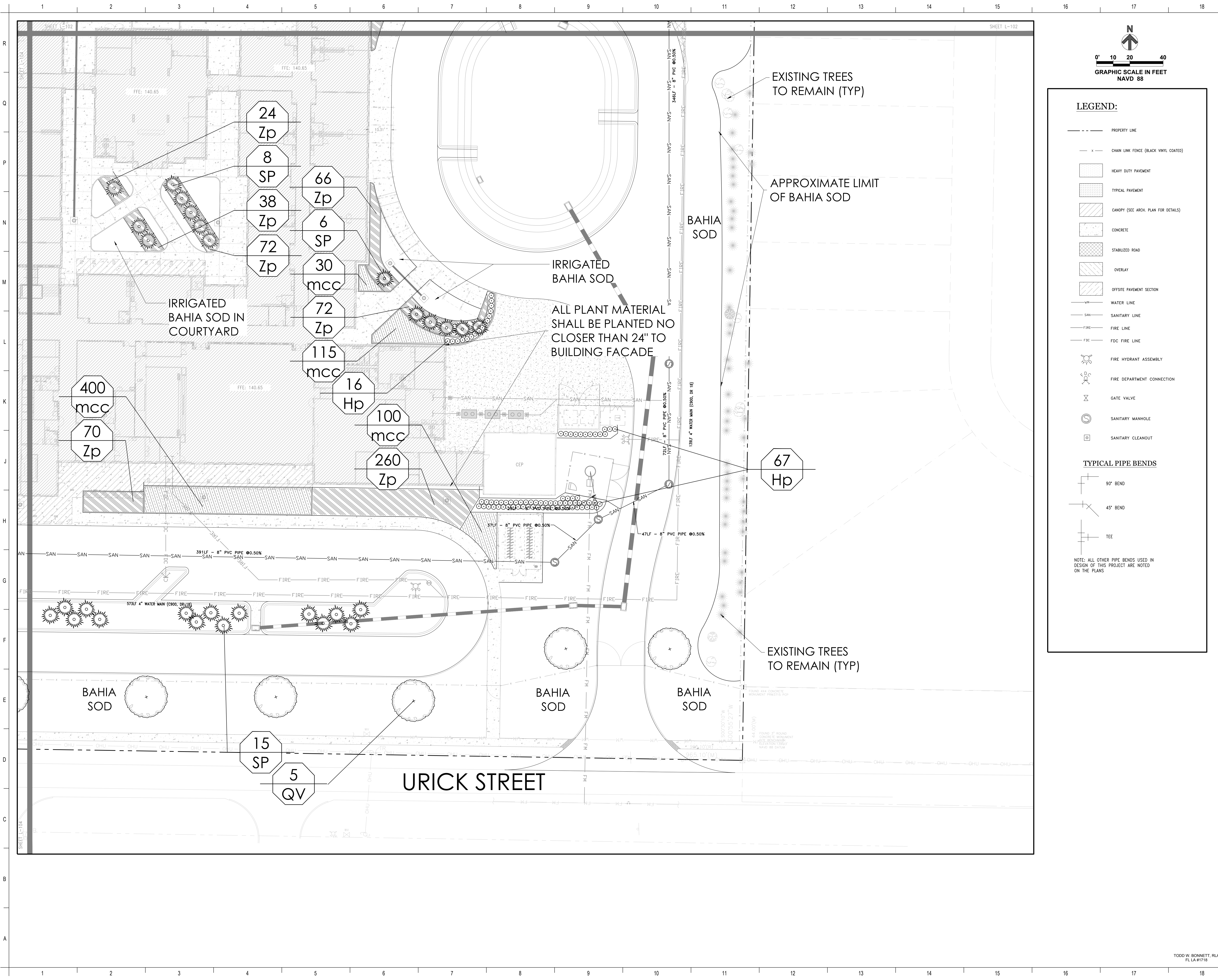


LAKE COUNTY SCHOOLS
201 WEST BURLEIGH BLVD, TAVARES, FL 32778

ISSUE DATE: 8/16/2023
COMM. NO.: 2023100
DRAWN BY: TWB CHECKED BY: TWB

LANDSCAPE PLAN

L-101



LEGEND:

- PROPERTY LINE
 - x- CHAIN LINK FENCE (BLACK VINYL COATED)
 - [Pattern] HEAVY DUTY PAVEMENT
 - [Pattern] TYPICAL PAVEMENT
 - [Pattern] CANOPY (SEE ARCH. PLAN FOR DETAILS)
 - [Pattern] CONCRETE
 - [Pattern] STABILIZED ROAD
 - [Pattern] OVERLAY
 - [Pattern] OFFSITE PAVEMENT SECTION
 - WATER LINE
 - SANITARY LINE
 - FIRE LINE
 - FDC FIRE LINE
 - [Symbol] FIRE HYDRANT ASSEMBLY
 - [Symbol] FIRE DEPARTMENT CONNECTION
 - [Symbol] GATE VALVE
 - [Symbol] SANITARY MANHOLE
 - [Symbol] SANITARY CLEAOUT
- TYPICAL PIPE BENDS**
- [Symbol] 90° BEND
 - [Symbol] 45° BEND
 - [Symbol] TEE
- NOTE: ALL OTHER PIPE BENDS USED IN DESIGN OF THIS PROJECT ARE NOTED ON THE PLANS

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 ARCHITECTURE

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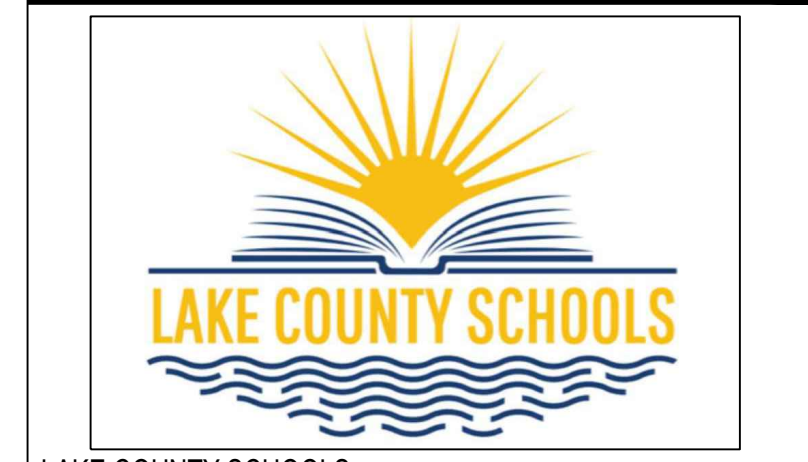
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MARK	DESCRIPTION	DATE

**FRUITLAND PARK
 ELEMENTARY SCHOOL
 REPLACEMENT**

Fruitland Park, FL



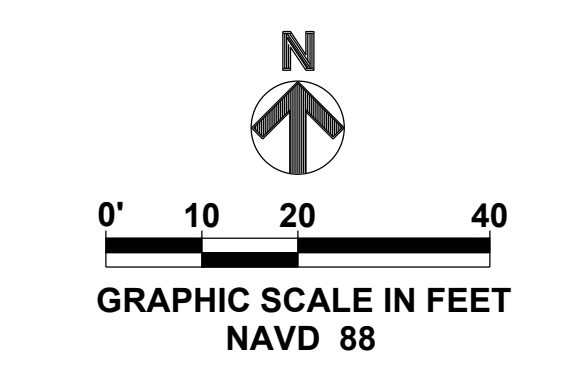
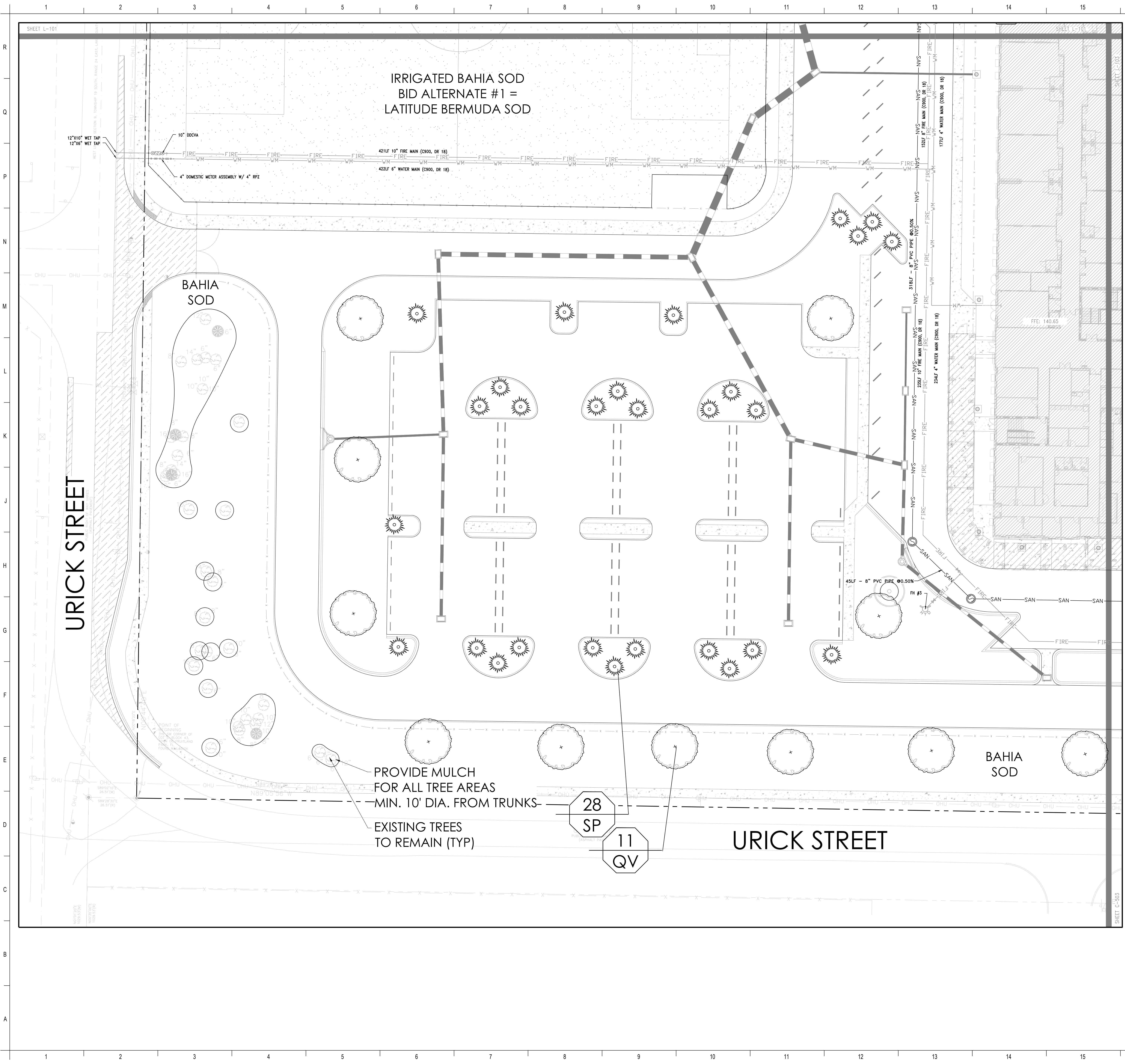
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LANDSCAPE PLAN

L-103

100% CONSTRUCTION DOCUMENTS



LEGEND:

- PROPERTY LINE
 - x- CHAIN LINK FENCE (BLACK VINYL COATED)
 - [Hatched Box] HEAVY DUTY PAVEMENT
 - [Dotted Box] TYPICAL PAVEMENT
 - [Diagonal Hatched Box] CANOPY (SEE ARCH. PLAN FOR DETAILS)
 - [Stippled Box] CONCRETE
 - [Cross-hatched Box] STABILIZED ROAD
 - [Diagonal Hatched Box] OVERLAY
 - [Diagonal Hatched Box] OFFSITE PAVEMENT SECTION
 - WM WATER LINE
 - SAN SANITARY LINE
 - FIRE FIRE LINE
 - FDC FDC FIRE LINE
 - [Symbol] FIRE HYDRANT ASSEMBLY
 - [Symbol] FIRE DEPARTMENT CONNECTION
 - [Symbol] GATE VALVE
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 Suite 300
 Orlando, FL 32801
 voice 407-872-3322
 fax 407-872-3303

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REVISIONS		
MARK	DESCRIPTION	DATE

**FRUITLAND PARK
 ELEMENTARY SCHOOL
 REPLACEMENT**

Fruitland Park, FL



LAKE COUNTY SCHOOLS
 201 WEST BURLEIGH BLVD, TAVARES, FL 32778

ISSUE DATE: 8/16/2023
 COMM. NO.: 2023100
 DRAWN BY: TWB CHECKED BY: TWB

LANDSCAPE PLAN

L-104

TODD W. BONNETT, RLA
 FL LA #1718

NOT RELEASED FOR CONSTRUCTION

GENERAL REQUIREMENTS

The Landscape Contractor shall be responsible for all materials and all work as called for on the landscape plans. The list of plant quantities accompanying the plans shall be used as guide only. If a discrepancy occurs between the plans and the plant list, the plans shall control.

The Landscape Contractor shall warranty all trees, shrubs and ground covers for a period of one (1) year from the time of final acceptance by Owner, Grounds Department Representative, and Landscape Architect.

The Landscape Contractor shall be wholly responsible for the stability and plumb condition of all trees and shall be legally liable for any damage caused by the instability of any plant material. Staking of trees shall be done utilizing a method prescribed by Orange County Public Schools.

The Landscape Contractor shall research plans and contact appropriate agencies to determine the location of any utilities and obstructions prior to commencing work. Any utilities or unanticipated obstructions shall be reported to Landscape Architect or Owner immediately.

All plant material areas shall have an automatic underground irrigation system providing 100% coverage. See Irrigation Design Plans for extent of irrigation for sodded areas.

Positive drainage shall be maintained away from all structures on the site.

PLANT SPECIFICATIONS

All nursery stock plant material shall be Florida # 1 or better in accordance with Grades and Standards for Nursery Plants Parts I & II, latest edition as published by the Florida Department of Agriculture and Consumer Services- Division of Plant Industry.

All plant material shall be planted, fertilized and mulched as per the plant details and planting specifications noted on the plans.

All container grown material shall be weed free, healthy, vigorous, well rooted plants, and established in the container in which they are delivered to the site. The plants shall have tops which are good quality and in a healthy growing condition. Established container grown plant material shall be grown in that container sufficiently long enough for the new fibrous roots to have developed enabling the root mass to retain it's shape when removed the container. Plants which have become root bound in the container are unacceptable.

All plant material that is not container grown shall be freshly dug, sound, healthy, vigorous, well branched, and free of disease and insect eggs and larvae, and shall have adequate root systems. Where any requirements are omitted from the plant list, the plants furnished shall be normal for the variety. Plants may be pruned prior to delivery only upon the approval of the Landscape Architect.

FERTILIZER

Two fertilizers shall be used on all types of planting. Granular fertilizer shall be uniform in composition, dry and free flowing. This fertilizer shall be delivered to the site in the original unopened bags bearing the manufacturer's statement of analysis. Granular fertilizer shall be a controlled release variety meeting the following requirements: sixteen percent (16%) nitrogen, four percent (4%) phosphorus, eight percent (8%) potassium, plus iron. Tablet fertilizer ("Agriform" or approved equal) in 21 gram size shall meet the following requirements: twenty percent (20%) nitrogen, ten percent (10%) phosphorus, five percent (5%) potassium.

Application Rates:

Plant size	16-4-8	"Agriform" tablet (21 grams)
1 gallon	1/4 lb.	1 tablet
3 gallon	1/3 lb.	2 tablets
5 gallon	1/3 lb.	3 tablets
7-15 gallon	1/2 lb.	4 tablets
1" - 6" caliper	2 lbs. per 1" caliper	2 tablets per 1" caliper
6" + caliper	3 lbs. per 1" caliper	2 tablets per 1" caliper

Sodded areas shall receive an application of the granular fertilizer (16-4-8) at a rate of 1/2 lb. of Nitrogen per 1,000 square feet of sod area.

SOIL

Planting soil for use in preparing the backfill material for planting pits shall be added a rate of fifty percent (50%) planting soil to fifty percent (50%) existing soil. This soil mix shall be used in all plant pits. Planting soil shall be a fertile, friable natural topsoil of loamy character. It shall contain forty (40) to fifty (50) percent decomposed organic matter and be free of heavy clay, stones larger than 1" in diameter, noxious weeds and plants, sod, partially disintegrated debris, insects or any other undesirable material, plants or seeds that would be toxic or harmful to plant growth.

MULCH

All plant beds and tree watering basins shall be top dressed with three inches (3") of pine bark nuggets. All existing trees remaining on site shall have a 3 wide mulch ring installed at trunk - consistent with tree planting detail.

SOD

Refer to Landscape Plan for limits of sod.

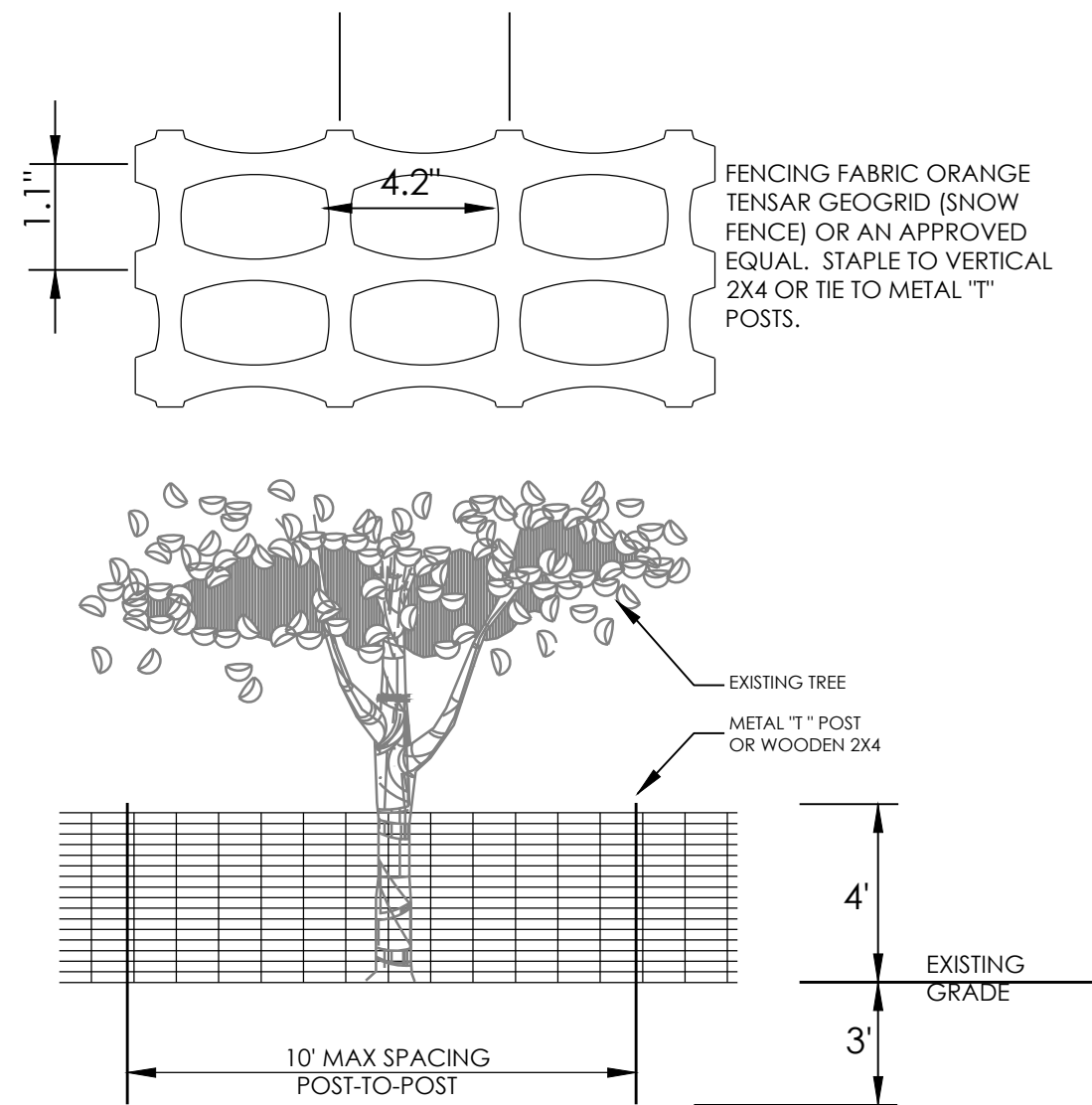
All areas disturbed by construction (including material staging, equipment storage, temporary facilities, site access, construction staff parking, etc.) beyond the minimum limits of sod as shown on the Landscape Plan shall be sodded as needed.

All lawn areas to receive sod shall be disked four (4) to six (6) inches and graded to establish a level finished grade ensuring positive drainage from all structures. All debris shall be removed from the site.

Sod shall be free of weeds and pests. It shall be laid evenly with tight fitting joints and rolled. The sod shall contain moist soil which does not fall apart or tear when lifted.

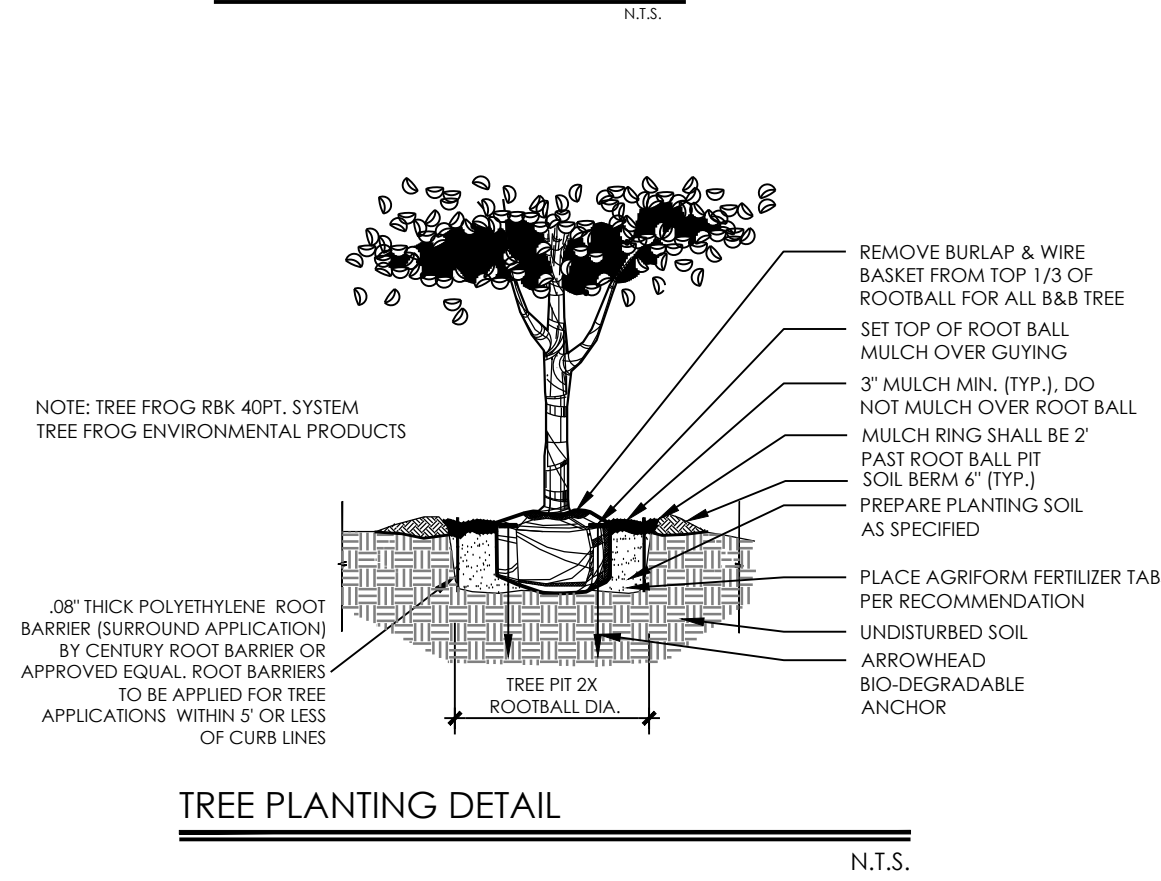
See plant list for specific sod species and locations.

See 'Fertilizer' for requirements of all sodded areas.

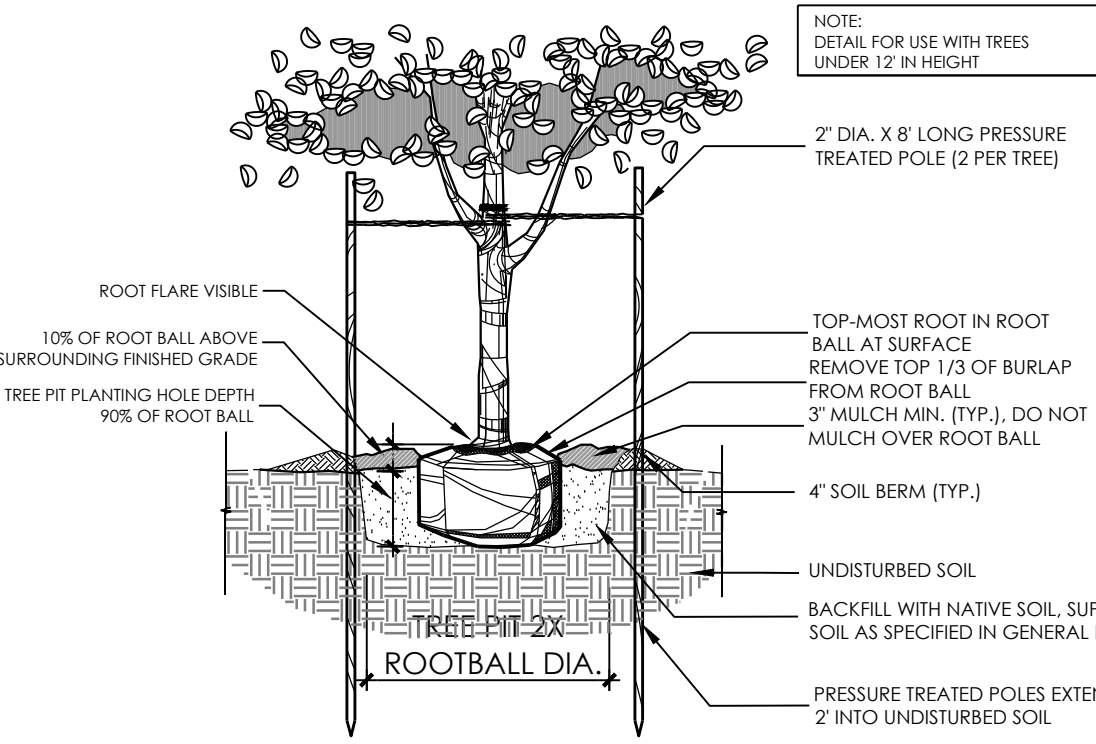
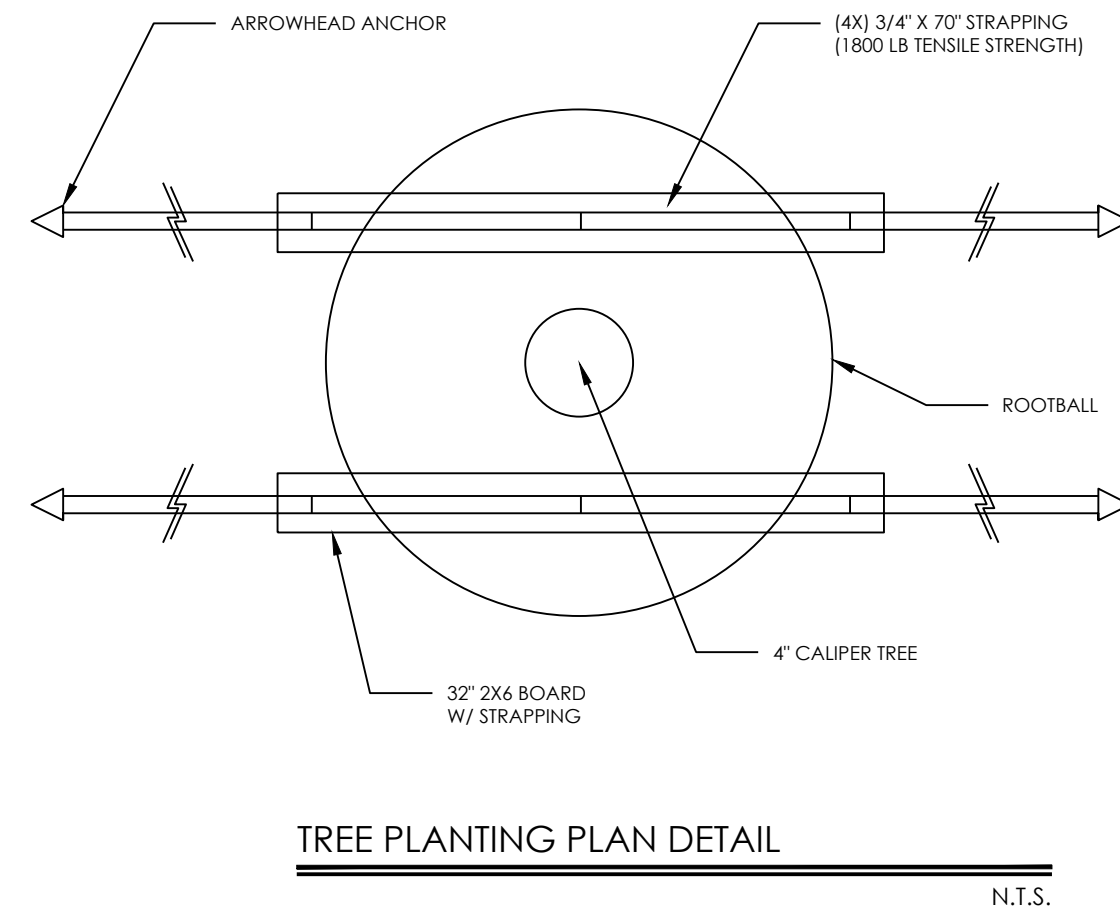


- PLACE CONTINUOUS RUN OF FENCE MATERIAL ON BOTH SIDES OF IMMEDIATE WORK ZONE IN WOODED AREAS AS SHOWN ON THE PLANS. DO NOT ATTACH FENCE MATERIAL TO TREES.
- TREE PROTECTION FENCING FABRIC TO BE PLACED 4' PAST THE CANOPY DRIP LINE FOR TREES THAT ARE TO BE PROTECTED.
- "TENSAR" HIGH STRENGTH POLYMER GEOGRID FABRIC BY TENSAR CORPORATION MORROW, GEORGIA OR APPROVED EQUAL

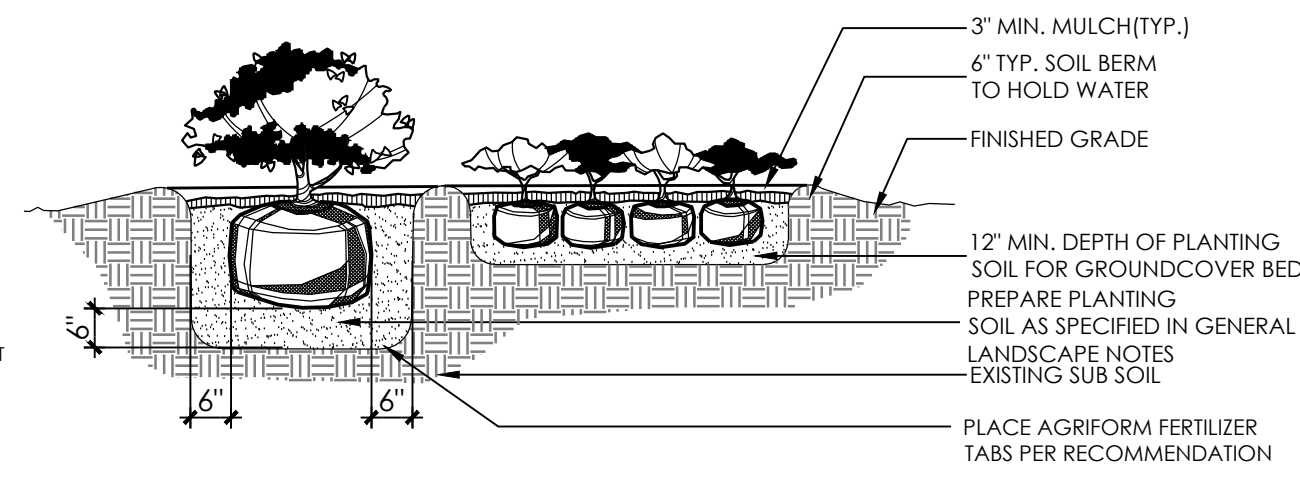
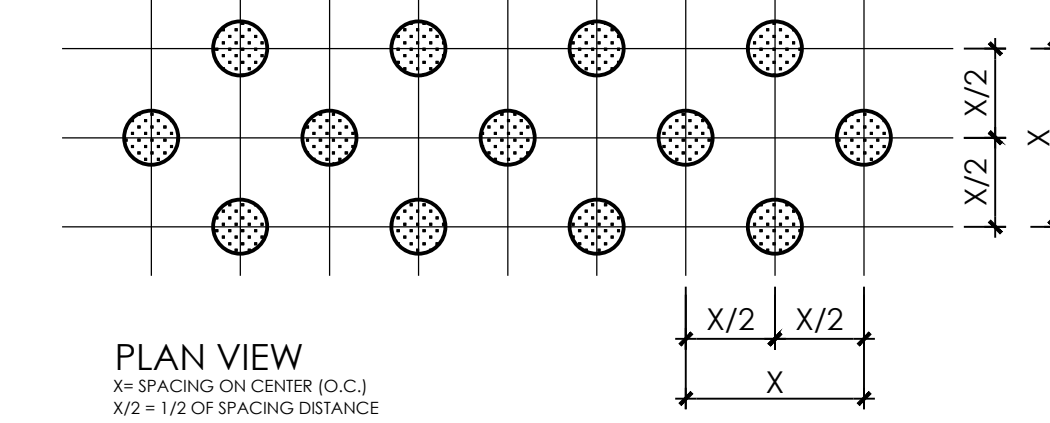
TREE PROTECTION DETAIL



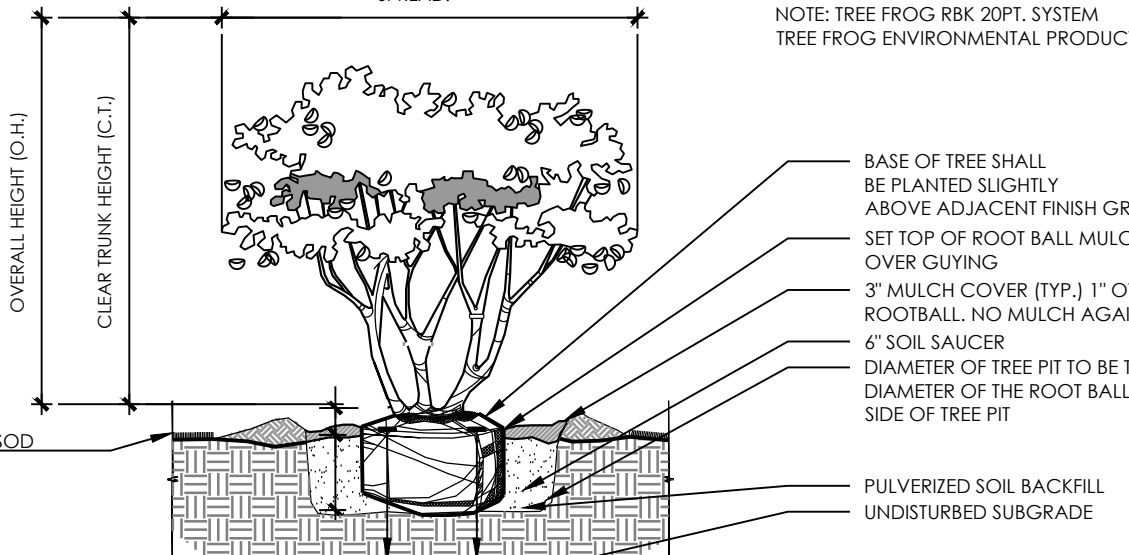
ARBORGUY RBK 20 PLAN VIEW



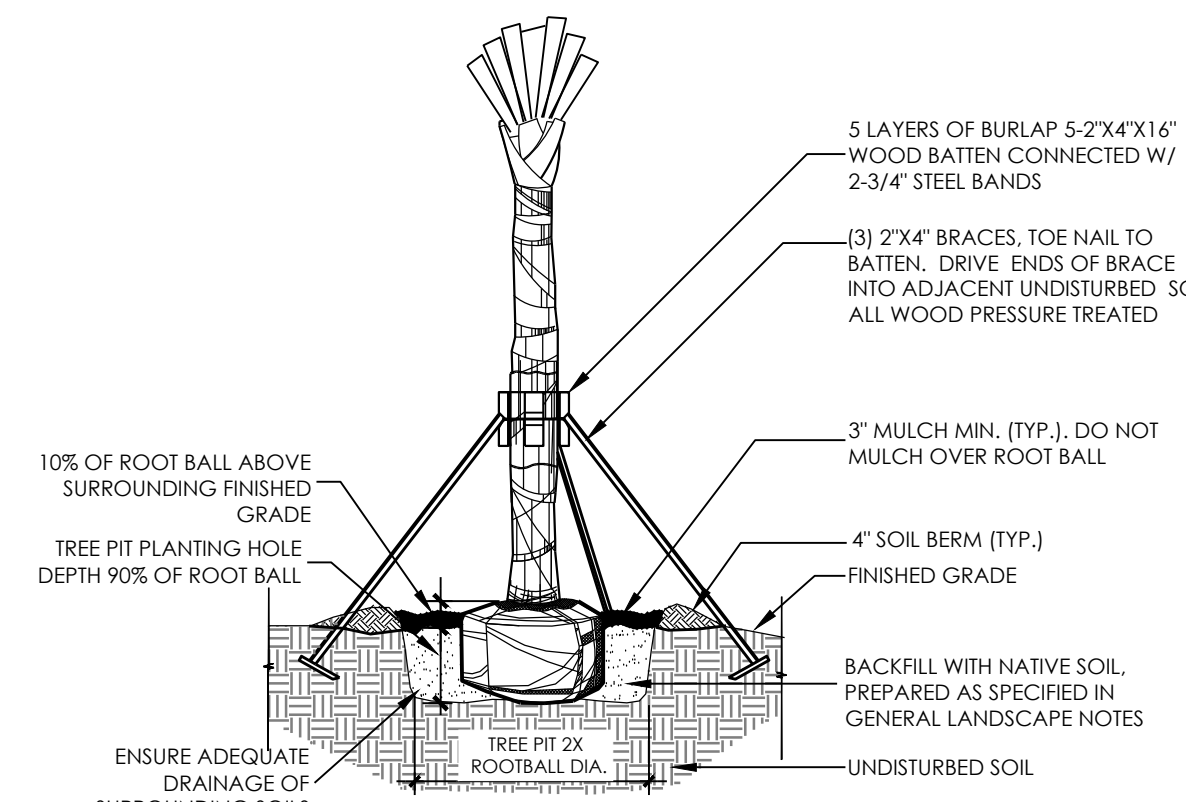
SMALL CANOPY TREE PLANTING DETAIL



SHRUB AND GROUNDCOVER PLANTING DETAIL



MULTI-TRUNK PLANTING DETAIL



HURRICANE CUT PALM PLANTING DETAIL

MASTER PLANT LIST

Symbol	Totals	Botanical Name	Common Name	Specifications	Spacing	Native	Drought Tolerance	Water Zone
Trees								
CC		<i>Cercis canadensis</i>	Red Bud	2" cal., 10'-12' ht x 36" spd.	AS	yes	H	L
LIN		<i>Lagerstroemia indica 'Natchez'</i>	Natchez White Crape Myrtle	1 1/2" cal., 8'-10'ht, 30" spd.	AS	no	H	L
LJ		<i>Ligustrum japonicum</i>	Wax Leaf Privet	9'-10' ht, x 7'-8'; multi-trunk	AS	no	H	L
QS		<i>Quercus shumardii</i>	Shumard Oak	4" cal., 14'-16' ht, x 60" spd.	AS	yes	H	L
QV	16	<i>Quercus virginiana</i>	Live Oak	4" cal., 16'-20' ht, x 6 1/2' spd., 5 ct.	AS	yes	H	L
SP12	62	<i>Sabal palmetto</i>	Cabbage Palm	10'-14' ct, mixed, slick	AS	yes	H	L
Shrubs								
Hp	83	<i>Hamelia patens</i>	Firebush	7 gal., full	36" o.c.	yes	H	L
Zp	662	<i>Zamia pumila</i>	Coontie	3 gal., 24" o.a.	30" o.c.	yes	H	L
Groundcovers								
mcc	645	<i>Muhlenbergia capillaris</i>	Muhly Grass	3 gal., 24" ht., full pot	24" o.c.	yes	H	L
SOD A		<i>Cynodon dactylon 'Latitude'</i>	Latitude Bermuda Grass	solid sod - weed free 'Big Roll'	solid	no	M	M
SOD		<i>Paspalum notatum 'Argentine'</i>	Argentine Bahia Sod	sand grown solid sod - weed free	solid	no	H	L

SCHENKELSHULTZ
ARCHITECTURE

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Orlando, FL 32801
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fax 407-872-3303

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**FRUITLAND PARK
ELEMENTARY SCHOOL
REPLACEMENT**

Fruitland Park, FL

LAKE COUNTY SCHOOLS
201 WEST BURLEIGH BLVD., TAVARES, FL 32778

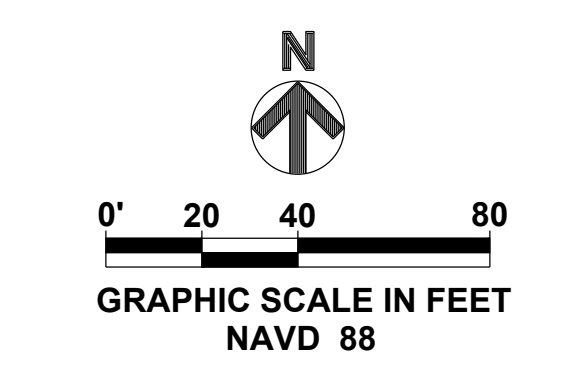
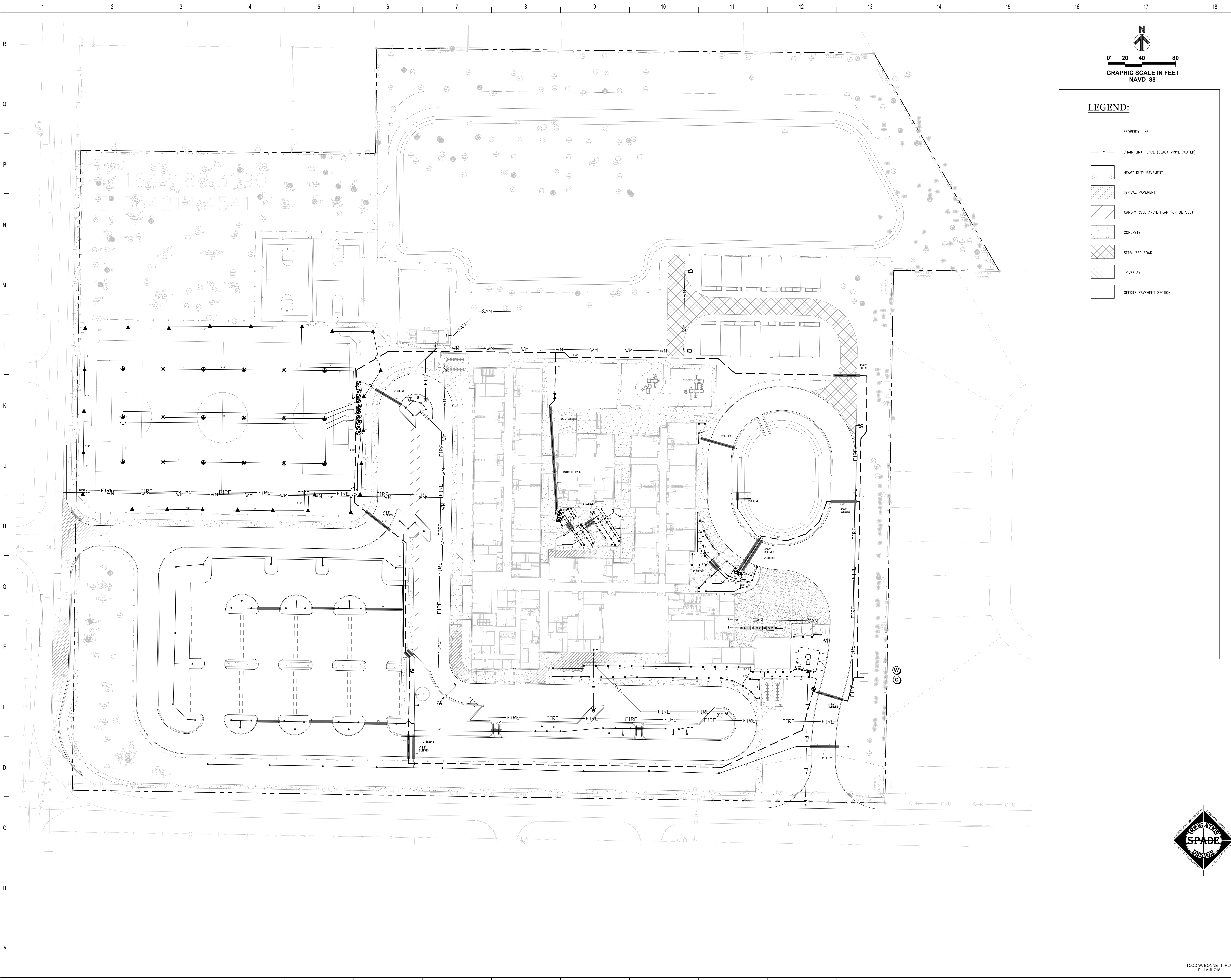
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**LANDSCAPE
NOTES & DETAILS**

L-105

TODD W. BONNETT, RLA
FL LA #1718

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LEGEND:

- PROPERTY LINE
- x - CHAIN LINK FENCE (BLACK VINYL COATED)
- [Pattern] HEAVY DUTY PAVEMENT
- [Pattern] TYPICAL PAVEMENT
- [Pattern] CANOPY (SEE ARCH. PLAN FOR DETAILS)
- [Pattern] CONCRETE
- [Pattern] STABILIZED ROAD
- [Pattern] OVERLAY
- [Pattern] OFFSITE PAVEMENT SECTION

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**FRUITLAND PARK
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Fruitland Park, FL

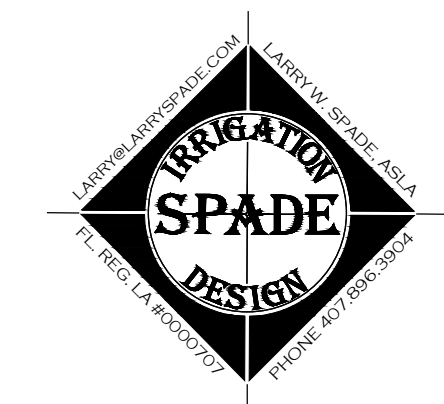


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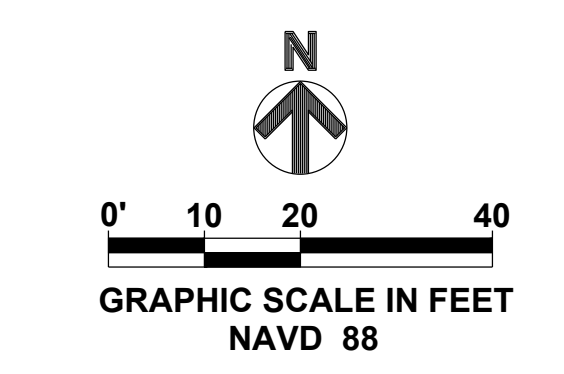
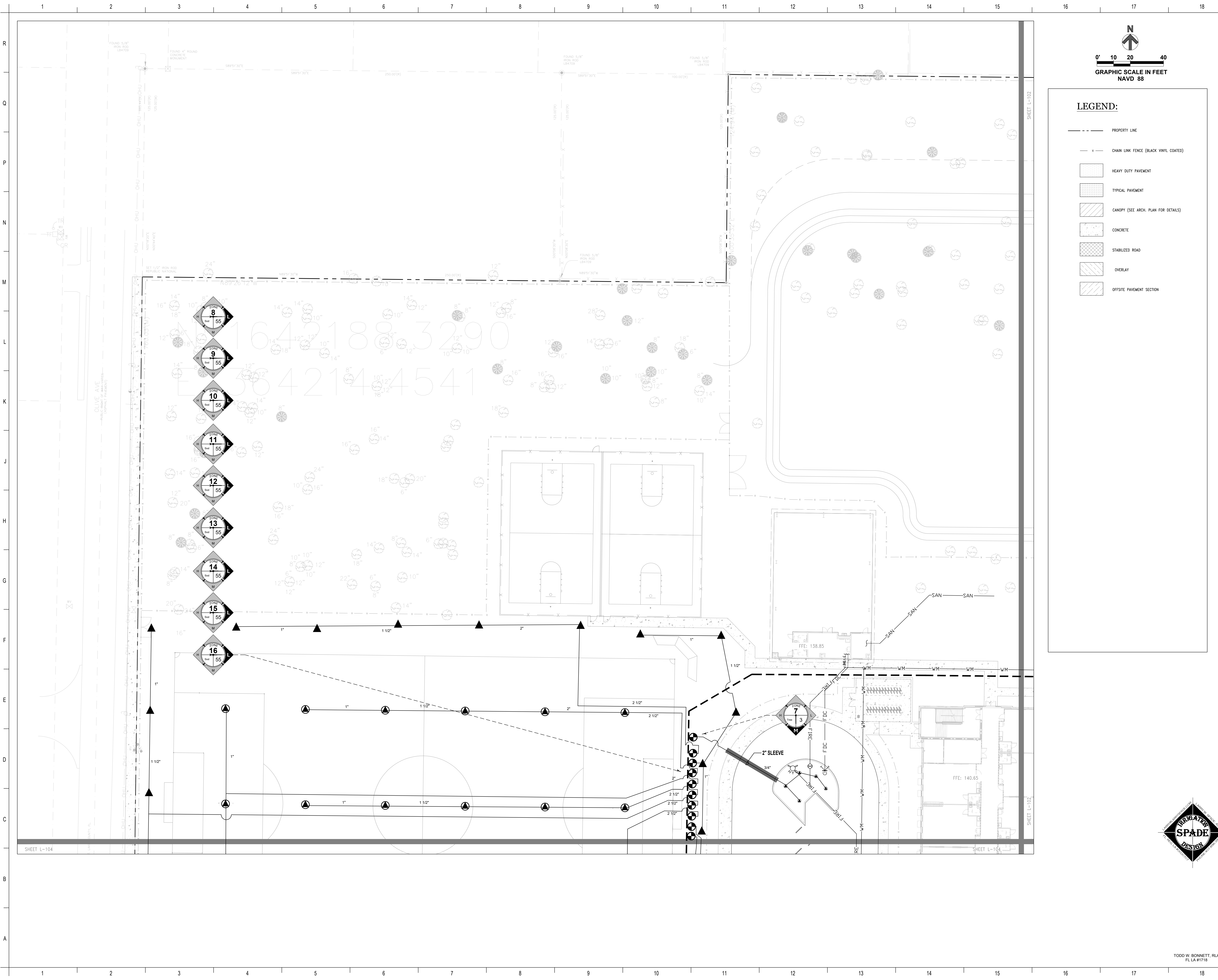
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IRRIGATION PLAN

L-200



TODD W. BONNETT, RLA
 FL LA #1718



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REPLACEMENT**

Fruitland Park, FL



LAKE COUNTY SCHOOLS
201 WEST BURLEIGH BLVD, TAVARES, FL 32778

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COMM. NO.: 2023100
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IRRIGATION PLAN

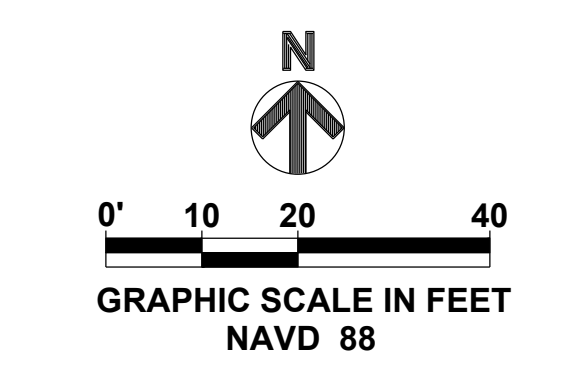
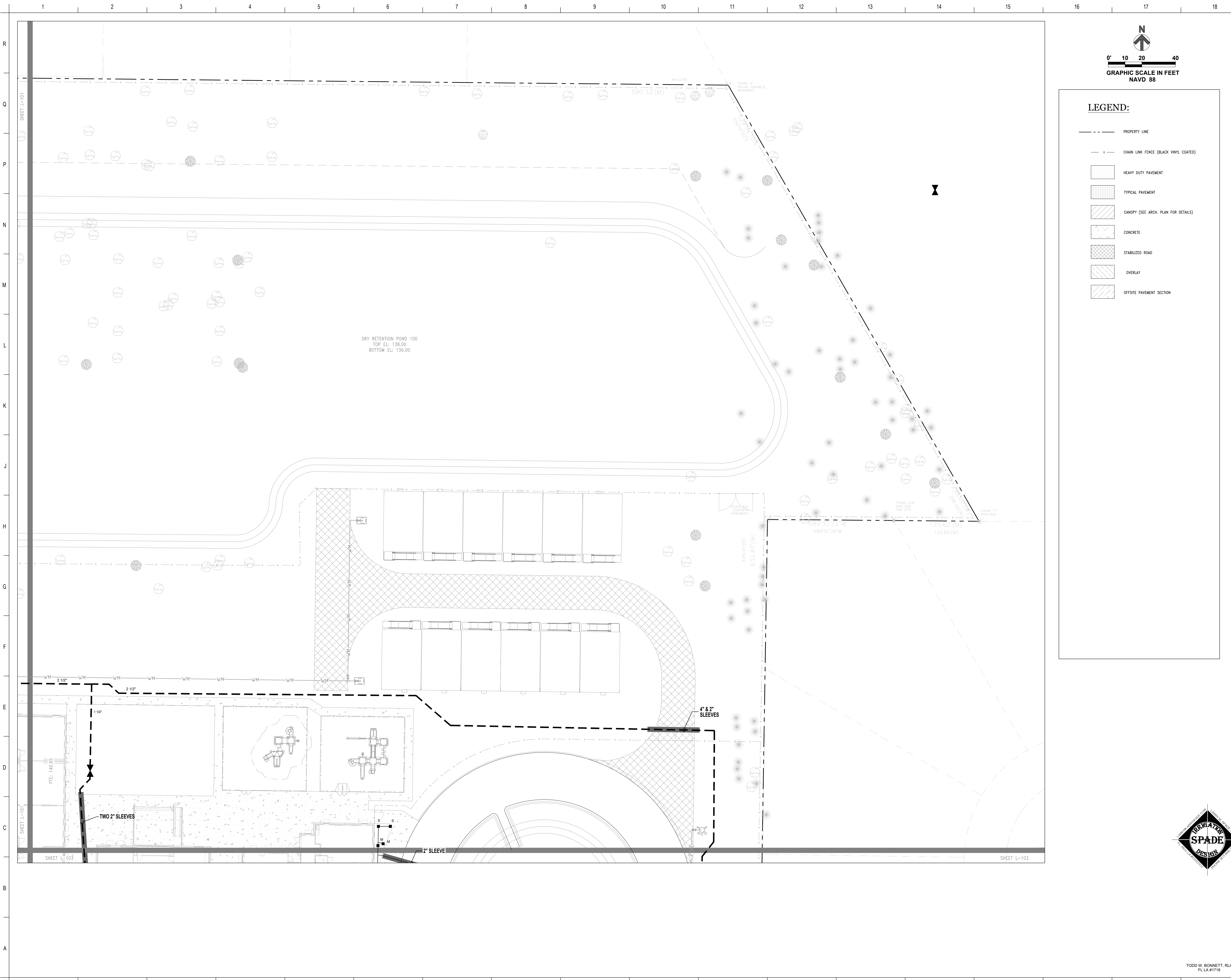
L-201



TODD W. BONNETT, RLA
FL LA #1718

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Fruitland Park, FL



LAKE COUNTY SCHOOLS
 201 WEST BURLEIGH BLVD, TAVARES, FL 32778

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IRRIGATION PLAN

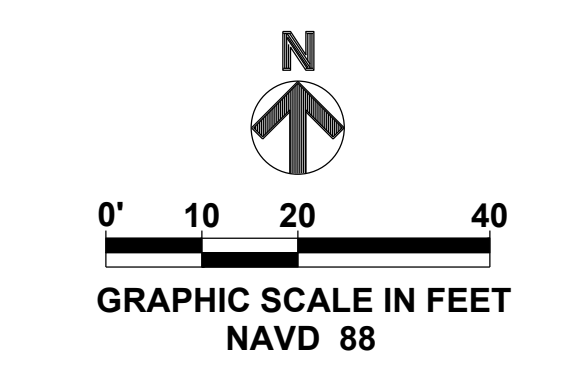
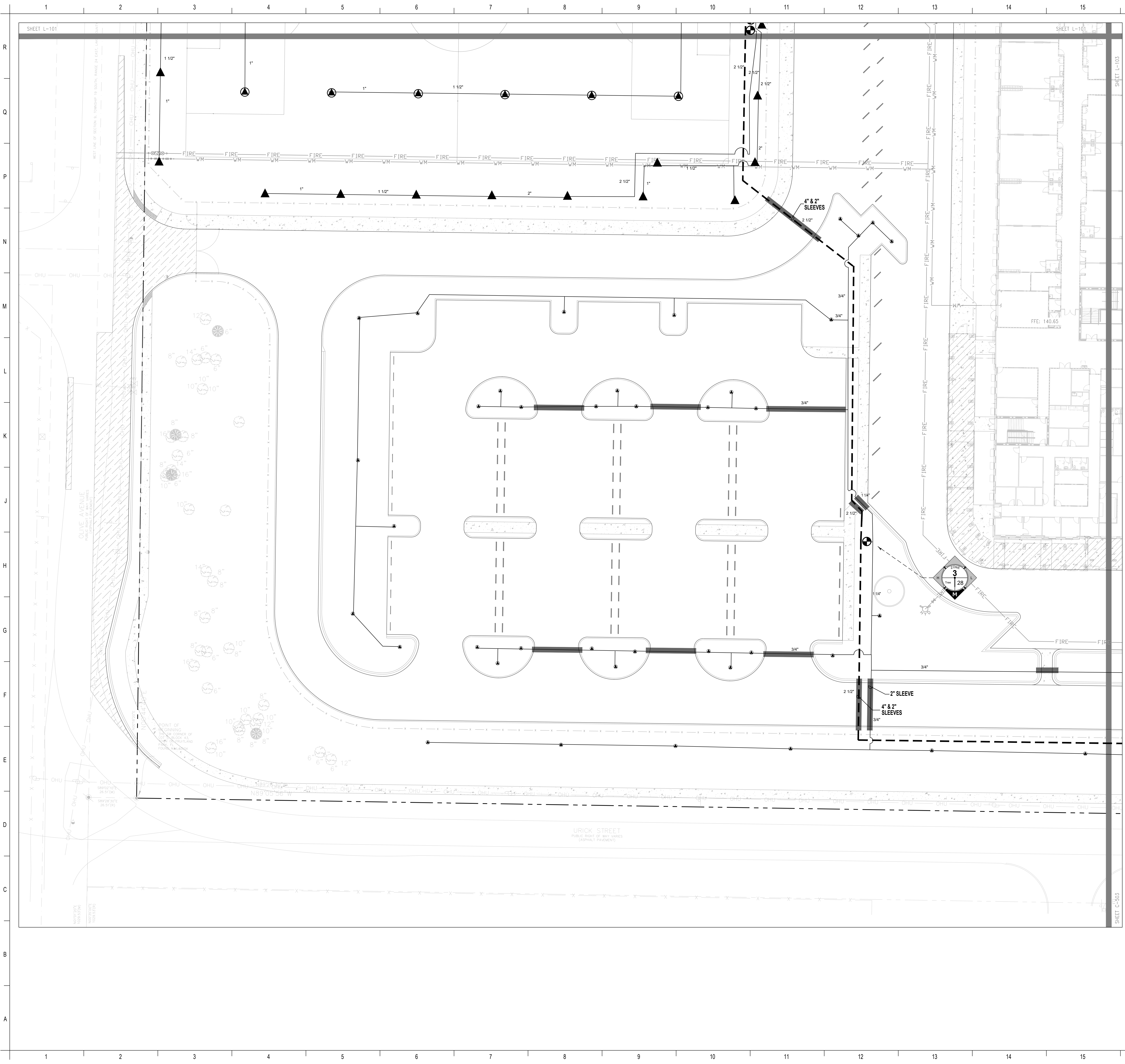
L-202



TODD W. BONNETT, R.L.A.
 FL LA #1718

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 Suite 300
 Orlando, FL 32801
 voice 407-872-3322
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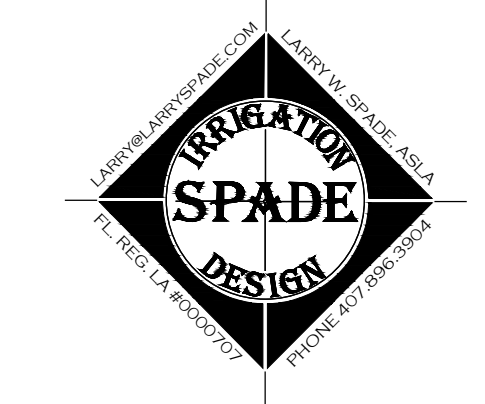
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 REPLACEMENT**

Fruitland Park, FL



LAKE COUNTY SCHOOLS
 201 WEST BURLEIGH BLVD, TAVARES, FL 32778

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IRRIGATION PLAN

L-204

TODD W. BONNETT, RLA
 FL LA #1718

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PACKAGED AIR HANDLING UNIT SCHEDULE: Z_PACKAGED_AHU_EH_Or_HW Schedule_Induction Motors_A15c1

UNIT NO.	SERVING	TOTAL MAX. CFM	PRIMARY CFM	O.A. CFM	DCV O.A. CFM	SUPPLY AIR FAN DATA																				UNIT/MOTOR DATA (FAN SECTION NAMEPLATE DATA)					VFD/ASD/VSD DATA											
						FAN DATA						DISCHARGE					INLET					RADIATED					QUANTITY	HP PER FAN	TOTAL HP	BHP PER FAN	TOTAL BHP	MOTOR RPM	MOTOR TYPE	MOTOR FLC	MCA	MOCF	VOLT	PH	MOTOR CONTROLLER	MFR	SIZE	VFD IRC
						FAN QUANTITY	ESP IN H2O	TSP IN H2O	FAN DIA.	FAN RPM	FAN TYPE	63	125	250	500	1000	63	125	250	500	1000	63	125	250	500	1000																
AHU 1-1	ADMIN	7,950	6,650	1,300		1	2.0	3.6	22.2	1888	DIRECT DRIVE PLENUM	88	88	92	86	82	84	84	92	84	76	80	80	87	79	72	1	10	10	7.13	7.13	1,800	NEMA	12.5	15.63	25	460	3	VFD/AFD/ASD	ABB	ACH580-01-014A-4	14
AHU 1-2	CLASSROOM	7,750	6,300	1,450		1	2.0	3.6	22.2	1857	DIRECT DRIVE PLENUM	88	87	92	85	81	83	84	92	83	76	79	80	87	78	71	1	10	10	6.91	6.81	1,800	NEMA	12.5	15.63	25	460	3	VFD/AFD/ASD	ABB	ACH580-01-014A-4	14
AHU 1-3	CLASSROOM	8,130	6,380	1,750		1	2.0	3.7	22.2	1913	DIRECT DRIVE PLENUM	89	88	92	86	82	84	84	92	85	77	80	89	87	79	72	1	10	10	7.37	7.37	1,800	NEMA	12.5	15.63	25	460	3	VFD/AFD/ASD	ABB	ACH580-01-014A-4	14
AHU 1-4	MEDIA	5,360	4,435	925		1	2.0	3.5	20	1903	DIRECT DRIVE PLENUM	85	84	88	82	78	80	81	89	81	73	76	76	84	75	68	1	7.5	7.5	4.49	4.49	1,800	NEMA	9.7	12.13	20	460	3	VFD/AFD/ASD	ABB	ACH580-01-012A-4	12
AHU 1-5	CLASSROOM	13,150	10,400	2,750		1	2.0	3.5	27	1639	DIRECT DRIVE PLENUM	92	91	94	88	85	88	93	94	88	79	84	88	88	82	75	1	15	15	11.93	11.93	1,200	NEMA	20.5	25.63	40	460	3	VFD/AFD/ASD	ABB	ACH580-01-023A-4	23
AHU 1-6	ART / MUSIC	6,475	5,450	1,025		1	2.0	3.6	20	2089	DIRECT DRIVE PLENUM	87	87	90	87	81	82	83	91	85	77	78	79	86	80	72	1	7.5	7.5	5.71	5.71	1,800	NEMA	9.7	12.13	20	460	3	VFD/AFD/ASD	ABB	ACH580-01-012A-4	12
AHU 1-7	DINING	11,805	8,530	3,275	1,850	1	2.0	3.8	27	1672	DIRECT DRIVE PLENUM	91	90	93	86	84	86	92	92	86	77	82	88	86	81	73	1	15	15	11	11	1,200	NEMA	20.5	25.63	40	460	3	VFD/AFD/ASD	ABB	ACH580-01-023A-4	23
AHU 1-8	KITCHEN	4,775	4,125	650		1	2.0	3.7	18.2	2186	DIRECT DRIVE PLENUM	84	85	88	86	79	80	80	88	86	76	76	76	83	80	71	1	5	5	4.21	4.21	1,800	NEMA	6.6	8.25	15	460	3	VFD/AFD/ASD	ABB	ACH580-01-07A6-4	7.6
AHU 1-9	CLASSROOM	12,270	9,620	2,650		1	2.0	3.3	27	1549	DIRECT DRIVE PLENUM	91	90	93	86	84	86	91	92	86	77	82	87	86	81	73	1	15	15	10.17	10.17	1,200	NEMA	20.5	25.63	40	460	3	VFD/AFD/ASD	ABB	ACH580-01-023A-4	23
AHU 1-10	CLASSROOM	11,360	8,860	2,500		1	2.0	3.7	27	1533	DIRECT DRIVE PLENUM	90	89	93	85	83	86	91	91	85	76	82	86	80	72	1	15	15	10.27	10.27	1,200	NEMA	20.5	25.63	40	460	3	VFD/AFD/ASD	ABB	ACH580-01-023A-4	23	

REMARKS:

- SINGLE ZONE VARIABLE VOLUME - AFD CONTROLLED; PROVIDE DUAL MOTOR OUTPT AFD FOR DUAL MOTOR UNITS (AFD WITH BYPASS)
- MULTI-ZONE VARIABLE VOLUME - AFD CONTROLLED; PROVIDE DUAL MOTOR OUTPT AFD FOR DUAL MOTOR UNITS (AFD WITH BYPASS)
- CONSTANT VOLUME - AFD CONTROLLED; PROVIDE DUAL MOTOR OUTPT AFD FOR DUAL MOTOR UNITS (AFD WITH BYPASS)
- PROVIDE AFD OR DISCONNECT WITH HOA AND 65K AIC/SCCR
- PROVIDE AFD WITH BYPASS
- PROVIDE SEPARATE ELECTRICAL CONNECTION FOR FAN MOTORS AND ELECTRIC HEATERS
- SEE ELECTRIC DUCT HEATER SCHEDULE FOR PRE-HEAT COIL INFORMATION
- SEE ELECTRIC DUCT HEATER SCHEDULE FOR RE-HEAT COIL INFORMATION
- PROVIDE ACCESS DOORS UPSTREAM AND DOWNSTREAM OF ALL HEATING AND COOLING COILS
- PROVIDE BIPOLAR IONIZATION IN THE AHU, WITH ION DETECTOR, BY CONTRACTOR NOT AHU MFR
- PROVIDE HORIZONTAL DRAW-THROUGH CONFIGURATION
- PROVIDE VERTICAL DRAW-THROUGH CONFIGURATION
- PROVIDE TOP/BOTTOM/SIDE DISCHARGE (AS SHOWN ON DRAWINGS) AND DISCHARGE AIR PLENUM
- REFER TO SPECIFICATION FOR ALL REQUIREMENTS BEYOND THIS SCHEDULE

ABBREVIATIONS

FLC = FULL LOAD CURRENT
 ICR = INPUT CURRENT RATING OF VFD/AFD/ASD CONTROLLER
 VFD/AFD/ASD = VARIABLE FREQUENCY DRIVE/ADJUSTABLE FREQUENCY DRIVE/ADJUSTABLE SPEED DRIVE WITH BYPASS
 DISC/STARTER = COMBINATION DISCONNECT AND STARTER

DCV = DEMAND CONTROL VENTILATION
 ESP = EXTERNAL STATIC PRESSURE
 TSP = TOTAL STATIC PRESSURE
 AIC = AMPERE INTERRUPTING CAPACITY

MFR = MANUFACTURER
 SCCR = SHORT CIRCUIT CURRENT RATING
 HOA = HAND-OFF-AUTO

NOTE: THE VENTILATION RATE PROCEDURE USED FOR THIS PROJECT COMPLIES WITH ASHRAE STANDARD 62.1-2016.

VERSION: A15c1 7/16/2021 COPYRIGHT: MPE, INC

CFM	COOLING COIL DATA														BIPOLAR IONIZATION REQUIRED	FILTER DATA				MAX UNIT SIZE			SELECTION BASED ON		REMARKS
	EAT F		LAT F		TOTAL CAPACITY MEH	SENSIBLE CAPACITY MEH	AIR PD IN H2O	GPM	EWT F	LWT F	WATER PD FT H2O	MIN. ROWS	Max FINS/FT	MIN FACE AREA - FT2		LEED FILTRATION REQUIREMENT	EFFICIENCY	AIR PRESSURE DROP AT MID LIFE CONDITION	FILTER DEPTH	HEIGHT (INCHES)	WIDTH (INCHES)	LENGTH (INCHES)	AHU MFR	MODEL	
	DB	WB	DB	WB																					
7,950	80.78	68.80	51.3	51.26	407.67	248.42	0.94	59.2	56	42	10.2	8	130	16.93	YES	NO	MERV 8	0.55	2	50	80	119	CARRIER	39MN17W	2,4,9,10,11,13,14
7,750	81.18	69.06	51.1	51.13	407.66	246.33	0.9	59.2	56	42	10.2	8	130	16.93	YES	NO	MERV 8	0.55	2	50	80	119	CARRIER	39MN17W	2,4,9,10,11,13,14
8,130	81.66	69.37	51.4	51.37	430.94	260.36	0.97	62.6	56	42	11.3	8	130	16.93	YES	NO	MERV 8	0.55	2	50	80	119	CARRIER	39MN17W	2,4,9,10,11,13,14
5,360	80.93	68.90	51.8	51.8	269.47	164.97	0.81	39.1	56	42	4.8	8	130	12.64	YES	NO	MERV 8	0.55	2	47	68	116	CARRIER	39MN12W	2,4,9,10,11,13,14
13,150	81.56	69.30	51.9	51.94	674.23	412.03	0.83	103.8	55.2	42	4.6	8	130	30.35	YES	NO	MERV 8	0.55	2	60	105	127	CARRIER	39MN30W	2,4,9,10,11,13,14
6,475	80.69	68.74	51.5	51.46	326.67	200.34	0.89	47.4	56	42	7.2	8	130	14.34	YES	NO	MERV 8	0.55	2	47	73	115	CARRIER	39MN14W	2,4,9,10,11,13,14
11,805	82.72	70.05	52.0	51.92	638.19	382.27	1.05	92.6	56	42	16.9	8	130	24.41	YES	NO	MERV 8	0.56	2	60	87	127	CARRIER	39MN25W	1,4,6,8,9,10,11,13,14
4,775	80.31	68.50	52.0	51.94	232.16	143.4	0.98	35.2	56	42	7.5	8	130	9.93	YES	NO	MERV 8	0.56	2	40	68	114	CARRIER	39MN10W	1,4,6,8,9,10,11,13,14
12,270	81.67	69.38	52.0	51.91	634.29	384.83	0.58	98	56	42	17.6	6	130	30.35	YES	NO	MERV 8	0.55	2	60	105	125	CARRIER	39MN30W	2,4,9,10,11,13,14
11,360	81.74	69.42	51.8	51.7	593.25	359.24	0.99	86.1	56	42	14.8	8	130	24.41	YES	NO	MERV 8	0.55	2	60	87	127	CARRIER	39MN25W	2,4,9,10,11,13,14

PUMP SCHEDULE:

UNIT NO.	SERVING	TYPE	GPM	HEAD FT. H2O	PUMP EFF. %	CONN. SIZE		MOTOR DATA				AFD DATA			SELECTION BASED ON:		REMARKS
						INLET	OUTLET	HP	RPM	VOLT	PH	MFR	SIZE	IRC	MANUFACTURER	MODEL	
CHWP-1	CHILLER / CAMPUS LOAD	BASE MTD END SUCTION	243	130	65.00%	4	3	20	1700	460	3	ABB	ABB ACH580-VAR-027A-4	27	BELL & GOSSETT	E-1510 3GB	1,3,4
CHWP-2	CHILLER / CAMPUS LOAD	BASE MTD END SUCTION	243	130	65.00%	4	3	20	1700	460	3	ABB	ABB ACH580-VAR-027A-4	27	BELL & GOSSETT	E-1510 3GB	1,3,4
CHWP-3	CHILLER / CAMPUS LOAD	BASE MTD END SUCTION	243	130	65.00%	4	3	20	1700	460	3	ABB	ABB ACH580-VAR-027A-4	27	BELL & GOSSETT	E-1510 3GB	1,2,3,4

NOTES:

- AFD WITH BYPASS
- AFD WITH BYPASS, STAND-BY PUMP FOR REDUNDANCY
- ALL PUMPS ARE SELECTED WITH PUMPS IN PARALLEL
- PUMP MOTORS SHALL HAVE SHAFT GROUNDING RINGS

BAF SCHEDULE:

UNIT NO.	SERVING	DIAMETER (FT)	WEIGHT (LB)	MOTOR DATA					NOTES
				FLA	MOCF	RPM	VOLT	PH	
BAF-1	COVERED PLAY	12	88	10	15	76	120	1	1
BAF-2	COVERED PLAY	12	88	10	15	76	120	1	1

NOTES:

- PROVIDE WIRED WALL MOUNTED CONTROLLER FOR EACH FAN WITH UNIT LABEL. COORDINATE MOUNTING LOCATION WITH ARCHITECTURAL DRAWINGS.

AIR SEPARATOR:

UNIT NO.	SERVING	SYSTEM FLOW RATE (GPM)	SYSTEM CONN. (IN.)	VENT CONN. (IN.)	PRESSURE DROP (FT. H2O)	DIMENSIONS		SELECTION BASED ON:		REMARKS
						HEIGHT (IN.)	DIAM. (IN.)	MANUFACTURER	MODEL	
AS-1	CHILLED WATER SYSTEM	888	8	2	0.87	54	29.5	BELL & GOSSETT	RL-8F	NONE

EXPANSION TANK SCHEDULE:

UNIT NO.	SERVING	VOLUME (GAL)	ACCEP. VOLUME (GAL)	FLUID	PIPE MATERIAL	DIMENSIONS		SYSTEM VOLUME (GAL)	INITIAL OPER. TEMP. (F)	MAX. DESIGN TEMP. (F)	MIN. OPER. PRES. (PSIG)	MAX. DESIGN PRES. (PSIG)	ASME PRES. RATING (PSIG)	SELECTION BASED ON:		REMARKS
						HEIGHT (IN.)	DIAM. (IN.)							MANUFACTURER	MODEL	
ET-1	CHILLED WATER	21.68	8.73	CW	STEEL	37	16	2156	40	90	30	125	125	BELL & GOSSETT	B85	NONE

PACKAGED TERMINAL AIR CONDITIONER UNIT SCHEDULE:

UNIT NO.	SERVING	TOTAL CFM	COOLING CAPACITY (BTU/HR)	HEATING CAPACITY (BTU/HR)	VOLT	PH	UNIT ELECTRICAL DATA				DIMENSIONS			SELECTION BASED ON:		REMARKS
							COOLING (A)	HEAT PUMP (A)	ELECTRIC HEAT BACKUP (A)	BREAKER SIZE (AMPS)	HEIGHT (IN.)	WIDTH (IN.)	LENGTH (IN.)	MANUFACTURER	MODEL	
PTAC-1	PE OFFICE	306	11800	9200	208	1	5.1	4.7	13.6	20	15-5/8	21-13/16	26	GE	AJEQ12DCF	1,2

NOTES:

- UNIT CONTROLS SHALL BE MOUNTED NO HIGHER THAN 48" AFF. FINAL MOUNTING HEIGHT SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY MOUNTING HARDWARE FOR UNIT.

FRUITLAND PARK ELEMENTARY SCHOOL REPLACEMENT

Fruitland Park, FL



LAKE COUNTY SCHOOLS
 201 WEST BURLEIGH BLVD, TAVARES, FL 32778

ISSUE DATE: 8/16/2023
 COMM. NO.: 2023100

DRAWN BY: DR CHECKED BY: RBS/AWB

SCHEDULES - MECHANICAL

M601

Duct & Pipe Construction & Insulation Requirements Schedule			
Service	Thickness	Type	Notes
Outside Air Plenum	Installed R-6	75# density blanket	
Factory Packaged Air Conditioning Unit Casing		Factory Furnished	
Factory Built Return Air Plenums/Mixing Boxes	Double Wall	Factory Furnished	No Field Built Plenums
Supply Air Ducts			
From AHU's connection to 50 feet downstream on supply side for all air handling unit systems:	1" internally lined Installed R-6	with perforated inner liner and mylar film separating insulation from air stream	Double Wall Duct
After 50 feet downstream of AHU on supply side for all air handling units:	Installed R-6	Concealed - 2" thick external wrap Exposed: 1-1/2" rigid board with corner angles.	
Downstream of VAV terminals:	Installed R-6	Concealed - 2" thick external wrap Exposed: 1-1/2" rigid board with corner angles.	
All low pressure exposed ductwork in public areas:	1" internally lined Installed R-6	with perforated inner liner and mylar film separating insulation from air stream	Double Wall Duct
Ducts located outdoors or in soffit exposed to weather:	Installed R-8	Exposed: Rigid fiberglass with corner angles with outer weatherproof sheet metal jacket sealed with Flex-Clad 400 as manufactured by MFM Building Products Corp. Concealed: 75# density blanket	
AC Unit to Terminal - Balance of ductwork to terminal 50 deg air system:	Installed R-6	Exposed: 2" rigid fiberglass with corner angles Concealed: 2" with 1.5# density blanket	
AC Unit to Terminal - Balance of ductwork to terminal exposed 50 deg air system:	Installed R-6	Exposed: 2" rigid fiberglass with corner angles Concealed: 75# density blanket	
Terminal to Outlet:	Installed R-6	75# density blanket.	
Fire Dampers and reheat coils in internally insulated duct:	2" internally lined Installed R-6.7	with perforated inner liner and mylar film separating insulation from air stream. Apply Flex-Clad 400 as manufactured by MFM Building Products Corp. around entire double wall duct	Double Wall Duct
Ducts located outside:	2" internally lined Installed R-6.7	with perforated inner liner and mylar film separating insulation from air stream	Double Wall Duct
Return Air Ducts			
From AHU connection to 50 feet upstream on return side for all air handling unit systems:	1" internally lined Installed R-4.2	with perforated inner liner and mylar film separating insulation from air stream	Double Wall Duct
All other return air ductwork:	Installed R-4.2	Concealed - 2" thick external wrap - 1-1/2" rigid board with corner angles	Exposed
Ducts located outside:	2" internally lined Installed R-6.7	with perforated inner liner and mylar film separating insulation from air stream. Apply Flex-Clad 400 as manufactured by MFM Building Products Corp. around entire double wall duct	Double Wall Duct
Relief Air Duct			
All relief ducts:	Installed R-4.2	1-1/2" 18 density blanket. Mechanical Space or Exposed: 1" rigid fiberglass with corner angles.	
Outside Air ducts:	Installed R-6	Concealed - 2" thick external wrap - 1-1/2" rigid board with corner angles.	Exposed
All outside air ducts:	Installed R-6	Concealed - 2" thick external wrap - 1-1/2" rigid board with corner angles.	Exposed
Transfer Air Ducts			
All transfer ducts:	Installed R-4.2	1-1/2" 18 density blanket. Mechanical Space or Exposed: 1" rigid fiberglass with corner angles.	
Exhaust Air Ducts			
All general restroom exhaust ducts:		Not Required, except for within 10' from discharge opening. Concealed - 2" thick external wrap Exposed - 1-1/2" rigid board with corner angles	
Ducts located outside:	2" internally lined Installed R-6.7	with perforated inner liner and mylar film separating insulation from air stream. Apply Flex-Clad 400 as manufactured by MFM Building Products Corp. around entire double wall duct	Double Wall Duct
Kitchen hood exhaust ducts:		Wrapped in 3 hour fire rated duct wrap enclosure equal to 3m Firemaster	
Dishwasher hood exhaust ducts:		75# density blanket.	
Refrigerant Piping			
RS (duction) (Temp < 40 deg F):	Up to 3/4": 3/4" Closed Cell Elast. 1" thru 8": 1-1/2" Foamglas		All pipe with Aluminum Jacket
RL (Temp 90 - 130 deg F):	Up to 2": Not Required 2-1/2" thru 4": Not Required 5" thru 8": 1-1/2" Foamglas		All pipe with Aluminum Jacket
RHG (Temp 90 - 150 deg F):	Up to 2": 3/4" Closed Cell Elast. 2-1/2" thru 4": 1" Closed Cell Elast. 5" thru 8": 1-1/2" Foamglas		All pipe with Aluminum Jacket
Chilled Water (20 deg F to 60 deg F)			
Chilled Water (CHS) (CHR) (42 deg F and above) - Conditioned:	Up to 2": 1-1/2" Closed Cell Elast. 2-1/2" thru 4": 1-1/2" Foamglas 5" thru 8": 2-1/2" Foamglas 10" thru Larger: 2-1/2" Foamglas		ALL exposed pipe to have aluminum jacket at any elevation
Chilled Water (CHS) (CHR) (42 deg F and above) - Unconditioned:	Up to 2": 1-1/2" Foamglas 2-1/2" thru 4": 2" Foamglas 5" thru 14": 2-1/2" Foamglas 16" thru Larger: 3" Foamglas		ALL exposed pipe to have aluminum jacket at any elevation
Underground Chilled Water (CHS) (CHR) (42 deg F and above):	Up to 2": 1.8" Factory Injected Polyurethane Foam 3": 1.3" Factory Injected Polyurethane Foam 4": 1.8" Factory Injected Polyurethane Foam 6" thru 8": 1.7" Factory Injected Polyurethane Foam 10" thru 12": 1.5" Factory Injected Polyurethane Foam 14" thru 16": 1.8" Factory Injected Polyurethane Foam		All must have a minimum "K" Factor of 0.14
Cold Pipe Hanger Support Blocks:	Match - Foamglas Insulation		
Floor Drains Receiving Condensate:	1/2" Closed Cell Elastomeric		
Condensate Drain (CD): All sizes	1/2" Closed Cell Elastomeric		All pipe with Aluminum Jacket
EQUIPMENT & MISCELLANEOUS INSULATION REQUIREMENTS			
Expansion Tank:	1"	Closed Cell Elastomeric	Paint per specification 23 07 00
Filter Feeder:	1"	Closed Cell Elastomeric	Paint per specification 23 07 00
Chilled Water Pumps:	2"	Removable Cover	Paint per specification 23 07 00
Chiller:		Shell & Cold Surface: 1-1/2" Closed Cell Elast. Water Box: 1-1/2" Removable cover	Paint per specification 23 07 00
Screw Compressor (Oil Separator & Oil Cooler)	1"	Closed Cell Elastomeric	Paint per specification 23 07 00
ALL exposed piping insulation:		Provide an aluminum jacket	Any Pipe, Including ALL Mechanical Rooms
Domestic Water (Outdoor):	1"	Closed Cell Elastomeric	With Aluminum Jacket
NOTES:			
Refer to specification section 23-07-00 for more details and information			
Duct System Construction & Sealing must meet or exceed the 7th Edition of the FBC 2020 - Energy Conservation Code Table C403.2.9.2			
Insulation must meet or exceed the 7th Edition of the FBC 2020 - Energy Conservation Code Tables C403.2.9.1 and C403.2.10			
Insulation must meet or exceed 7th Edition of the FBC 2020 - Mechanical Code sections 604.1 through 604.12			
Insulation must meet or exceed ASHRAE 90.1-2016, Tables 6.8.2, 6.8.3-1, and 6.8.3.2			

EXHAUST FAN SCHEDULE:															
UNIT NO.	SERVING	TYPE	CFM	BLADE TYPE	SONES	TOTAL STATIC IN H2O	FAN RPM	MOTOR DATA				SELECTION BASED ON:			
								HP	RPM	VOLT	PH	MISSILE IMPACT	MANUFACTURER	MODEL	REMARKS
EF 1-1-1	RESTROOMS / CORRIDOR / CUSTODIAL	INLINE DIRECT DRIVE	875	BI	9.2	0.6	1164	3/4	1450	115	1	NO	GREENHECK	SQ-140HP-VG	1.2,3,5,6,10,19
EF 1-2-1	RESTROOM / CORRIDOR	INLINE DIRECT DRIVE	1030	BI	12.9	1	1780	3/4	1950	115	1	NO	GREENHECK	SQ-130HP-VG	1.2,3,5,6,10,19
EF 1-2-2	ELECTRICAL ROOM	INLINE DIRECT DRIVE	300	BI	8.6	0.4	1229	1/4	1725	115	1	NO	GREENHECK	SQ-98-VG	1.2,3,5,6,15,19
EF 1-3-1	RESTROOM / CORRIDOR	INLINE DIRECT DRIVE	1290	BI	12.0	1.1	1725	1/2	1725	115	1	NO	GREENHECK	SQ-120-VG	1.2,3,5,6,10,19
EF 1-3-2	ELECTRICAL ROOM	INLINE DIRECT DRIVE	300	BI	8.6	0.4	1229	1/4	1725	115	1	NO	GREENHECK	SQ-98-VG	1.2,3,5,6,15,19
EF 1-4-1	RESTROOM / CUSTODIAL / HALLWAY	INLINE DIRECT DRIVE	630	BI	8.6	0.4	1105	1/4	1250	115	1	NO	GREENHECK	SQ-130HP-VG	1.2,3,5,6,10,19
EF 1-5-1	RESTROOM / HALLWAY / LOBBY	INLINE DIRECT DRIVE	1840	BI	12.8	1.4	1470	1	1900	115	1	NO	GREENHECK	SQ-160HP-VG	1.2,3,5,6,10,19
EF 1-6-1	CORRIDOR / WRESTLING	INLINE DIRECT DRIVE	665	BI	8.1	0.4	1139	1/4	1200	115	1	NO	GREENHECK	SQ-130HP-VG	1.2,3,5,6,10,19
EF 1-6-2	FLN	ROOF MOUNTED	250	BI	8.2	0.4	1812	1/4	1725	115	1	NO	GREENHECK	G-997-VG	1.2,3,4,15,19,20
EF 1-7-1	RESTROOMS / CORRIDOR	INLINE DIRECT DRIVE	975	BI	11.5	1	1434	3/4	1450	115	1	NO	GREENHECK	SQ-140HP-VG	1.2,3,5,6,10,19
EF 1-8-1	STAFF RESTROOMS / CORRIDOR / CUSTODIAL	ROOF MOUNTED	400	BI	6.2	0.4	1214	1/4	1725	115	1	NO	GREENHECK	G-998-VG	1.2,3,4,15,19,20
EF 1-8-2	CUSTODIAL RECEIVING/EQUIPMENT STORAGE	INLINE DIRECT DRIVE	825	BI	9.0	0.6	1139	3/4	1450	115	1	NO	GREENHECK	SQ-140HP-VG	1.2,3,5,6,15,19
EF 1-8-3	FLAMMABLE STORAGE	INLINE DIRECT DRIVE	175	BI	10.3	0.4	1273	1/4	2487	115	1	NO	GREENHECK	BS9-79	1.2,3,5,6,7,8,19
EF 1-8-4	ELECTRICAL ROOM	INLINE DIRECT DRIVE	350	BI	9.5	0.4	1314	1/4	1725	115	1	NO	GREENHECK	SQ-98-VG	1.2,3,5,6,15,19
KEF 1	KITCHEN HOOD	ROOF MOUNTED	2500												
KEF 2	KITCHEN HOOD	ROOF MOUNTED	2500												
KEF 3	DISHWASHER	ROOF MOUNTED	1000												
EF 1-9-1	LOCKER ROOMS	INLINE DIRECT DRIVE	1955	BI	13.6	1.4	1506	1	1600	115	1	NO	GREENHECK	SQ-160HP-VG	1.2,3,5,6,10,19
EF 1-10-1	ELECTRICAL	INLINE DIRECT DRIVE	1860	BI	12.9	1.4	1475	1	1600	115	1	NO	GREENHECK	SQ-160HP-VG	1.2,3,5,6,10,19
EF 1-11-1	RESTROOMS	ROOF MOUNTED	150	BI	5.1	0.4	1166	1/4	1725	115	1	NO	GREENHECK	G-997-VG	1.2,3,4,11,19,20
EF 1-11-2	PE STORAGE	ROOF MOUNTED	245	BI	9.1	0.6	1633	1/4	1725	115	1	NO	GREENHECK	G-997-VG	1.2,3,4,15,19,20
REMARKS:															
1 PROVIDE BACKDRAFT DAMPER															
2 PROVIDE DISCONNECT AT THE UNIT															
3 PROVIDE SCR CONTROLLER ON ALL DIRECT DRIVE FANS															
4 PROVIDE ROOF CURB															
5 INTERNALLY LINE FAN FOR SOUND-PROOFING															
6 PROVIDE VIBRATION ISOLATION HANGERS															
7 FAN TO RUN CONTINUOUSLY AND MONITORED BY THE BAS															
8 FAN AND MOTOR TO BE EXPLOSION PROOF															
9 PROVIDE AFD															
10 SOFTWARE INTERLOCK FAN WITH RESPECTIVE AHU															
11 FAN TO BE CONTROLLED BY LIGHT SWITCH WITH AUTOMATIC SHUTOFF AFTER 20 MINUTES															
12 HARDWARE INTERLOCK FAN WITH RESPECTIVE AHURTU															
13 EMERGENCY SCIENCE EXHAUST FAN TO BE INTERLOCKED WITH PUSH BUTTON IN SCIENCE LAB															
14 FUME HOOD FAN INTERLOCK WITH FUME HOOD AND REFER TO SPECIFICATIONS AND DETAILS															
15 PROVIDE SOUND CONTROLLER ON ALL DIRECT DRIVE FANS															
16 INTERLOCK KITCHEN HOOD FANS WITH KITCHEN HOOD CONTROL PANEL															
17 PROVIDE GREASE DRAIN, HINGED ROOF CURB AND ALL ASSOCIATED ACCESSORIES FOR THE GREASE FAN															
18 THE KITCHEN KEF AND KEF INTO BAS FOR MONITORING															
19 ALL FANS TO BE ALUMINUM CONSTRUCTION															
20 PROVIDE ALUMINUM BRD SCREEN															
21 FAN SHALL BE PROVIDED WITH INTEGRAL DP SWITCH FOR START STOP FUNCTION															
22 INTERLOCK WITH RANGE HOOD AND PROVIDE HARDWARE CONNECTION TO ELECTRICAL JUNCTION BOX. MATCH CFM OF HOOD EXHAUST															
23 PROVIDE EC MOTOR WITH CONTROLLER CAPABLE OF ACCEPTING BAS ANALOG SIGNAL FOR SPEED CONTROL															
24 EMERGENCY REFRIGERANT PURGE EXHAUST FAN TO BE HARDWIRED TO THE REFRIGERANT MONITOR															
GENERAL COMMENTS:															
1 ALL ROOF MOUNTED FANS TO BE FLORIDA PRODUCT APPROVED AND TIED DOWN PER THE DETAILS SHEET															
2 ALL INLINE FANS WITH EXTERIOR MOTORS (NOT IN THE AIRSTREAM) TO HAVE AN INSULATED & VENTILATED FACTORY MOUNTED FAN ENCLOSURE BOX															

AIR COOLED LIQUID CHILLER SCHEDULE:																													
UNIT NO.	SERVING	NOMINAL TONS	IPLV	A-WEIGHTED 100% SOUND PRESSURE (dBa)	A-WEIGHTED 75% SOUND PRESSURE (dBa)	A-WEIGHTED 50% SOUND PRESSURE (dBa)	A-WEIGHTED 25% SOUND PRESSURE (dBa)	EAT °F	NO.	FLA (EA)	FLUID	FOUL FACT	EWT °F	LWT °F	DESIGN FLOW (GPM)	PD FT H2O	MINIMUM FLOW (GPM)	STEPS	NO.	VOLT	PH	COMP 1 AFD INPUT AMPS	COMP 2 AFD INPUT AMPS	VOLT/PH	MCA	MOCP	SELECTION BASED ON:		REMARKS
																											MANUFACTURER	MODEL	
CH-1	CAMPUS	142.5	26.19	66	62	56	53	95	8	4.8	WATER	0.0051	56	42	243.4	27.9	77	VARIABLE	2	460	3	100.0	100.0	460/3	269	350	CARRIER	30XV-146M	SEE NOTES
CH-2	CAMPUS	142.5	26.19	66	62	56	53	95	8	4.8	WATER	0.0051	56	42	243.4	27.9	77	VARIABLE	2	460	3	100.0	100.0	460/3	269	350	CARRIER	30XV-146M	SEE NOTES
NOTES:																													
1. 65K SCORCAIC RATING, EACH CHILLER TO HAVE A SINGLE POINT POWER CONNECTION																													
2. PROVIDE (1) ONE 40 AMP 115V CIRCUIT FOR HEAT TAP FOR EACH CHILLER																													
3. THREE-PASS EVAPORATOR																													
4. PROVIDE FACTORY LOW AMBIENT PROTECTION TO 0°F																													
5. MINIMUM ALLOWABLE CHILLER EFFICIENCY SHALL BE AS SCHEDULED																													
6. PROVIDE CHILLERS WITH SOUND PACKAGE TO MEET SCHEDULED SOUND PRESSURE. MANUFACTURER TO SUBMIT ACOUSTICAL REPORT SHOWING 50 DBA AT PROPERTY LINE 200' FROM CHILLER																													
7. MAX SCHEDULED SOUND PRESSURE LEVEL IS MEASURED 30' FROM SIDE OF CHILLER AT 100% LOAD																													
8. REFER TO DRAWINGS FOR EXTERNAL ACTIVE BACNET INTERFACE																													
9. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS																													

GRILLE, REGISTER AND DIFFUSER SCHEDULE:																
UNIT NO.	TYPE			SERVICE			MOUNTING DATA			CONSTRUCTION DATA			SELECTION BASED ON:			REMARKS
	G	R	D	SA	RA	TA/EA	CEILING	DUCT	WALL	DOOR	SHAPE	MATERIAL	COLOR	MANUFACTURER	MODEL	
G-1				X	X		X				SQUARE	ALUMINUM	WHITE	TITUS	TMS-AA	1
G-2	X			X	X		X				SQUARE	ALUMINUM	WHITE	TITUS	50F	1
G-3	X			X	X			X			RECT.	ALUMINUM	BY ARCH	TITUS	300FL	1
G-4	X			X	X			X	X		RECT.	ALUMINUM	WHITE	TITUS	360FL	W VOLUME DAMPER
G-5				X	X						RECT.	ALUMINUM	BY ARCH	TITUS	ML-38	1-3
G-6				X	X						RECT.	ALUMINUM	BY ARCH	TITUS	MLR-38	1,4
NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR BORDER TYPE ON ALL DIFFUSERS AND GRILLES.																
REMARKS:																
1) PROVIDE MATCHING MOUNTING SCREWS. FINISH TO MATCH GRILLE																
2) PROVIDE LOW VOLTAGE TRANSFORMER, AS SHOWN ON DRAWINGS FOR DEVICE OPERATION.																
3) 7-SLOT, 10' LONG LINEAR DIFFUSER WITH CONTINUOUS SLOT PLENUM																
4) 8-SLOT, 10' LONG LINEAR DIFFUSER WITH CONTINUOUS SLOT PLENUM																

ELECTRIC DUCT HEATER SCHEDULE: Z_MASTER ELECTRIC DUCT HEATER SCHEDULE_A3_2-27-2023																							
UNIT NO.	SERVING AHU	AHU SYSTEM TYPE	HEATER POSITION	TOTAL CFM	OUTSIDE AIR CFM	RETURN AIR CFM	AIR EAT °F	RETURN AIR EAT °F	SIZE (IN)		DUCT AREA SQ. FT.	KW PER SQ. FT.	VELOCITY FPM	AIR DATA			ELECTRICAL DATA			VERSION: A3	REVISED:	2/27/2023	
									HT	LG				EAT OF	LAT OF	KW	VOLTS	PH	NO. STEPS				CONTROL OPTION
EDH 1-1-1	AHU 1-7	SINGLE ZONE VAV	REHEAT	11,806	3,275	8,530	35	68	58	20	8.1	10.6	1465	58.8	81.5	85	480	3	2	OPTION "G"	INDECO	QUA	ALL
EDH 1-8-1	AHU 1-8	SINGLE ZONE VAV	REHEAT	4,775	659	4,125	35	68	36	16	4.0	7.5	1194	63.5	83.3	85	480	3	2	OPTION "G"	INDECO	QUA	ALL
NOTES:																							
1. MAXIMUM VELOCITY SHALL NOT EXCEED 1200 FPM																							
2. REFER TO INSTALLATION GUIDE FOR PROPER INSTALLATION LOCATION OF HEATER																							
3. PROVIDE CONTROL OPTION "G" UNLESS NOTED WITH SCR CONTROLLER IN SCHEDULE																							
4. REFER TO THE SPECIFICATIONS																							

SPLIT SYSTEM AIR COOLED CONDENSING UNIT SCHEDULE:																							
UNIT NO.	SERVING	NOM CAP (BTUH)	SEER	COND. EAT F	REFRIG TYPE	NO.	HP	VOLT	PH	QTY	STEPS	VOLT	PH	RLA	LRA	VOLT	PH	FAN FLA	MCA	MOCP	SELECTION BASED ON:		REMARKS
																					MANUFACTURER	MODEL	
CU 1-1-1	SS 1-1-1	18,000.0	18.5	95	R-410A	1	-	208	1	1	1	208	1	7.0	12.0	208	1						

VAV TERMINAL BOX WITH AND WITHOUT ELECTRIC HEATING COIL SCHEDULE FOR:														Version: B1		3/22/2021		Copyright MPE, Inc			
UNIT DESIGNATION	SERVING	AIR DATA						ELECTRIC HEATING COIL								SELECTION BASED ON			REMARKS		
		TOTAL CFM	PRIMARY AIR				AIRSIDE				MANUFACTURER	MODEL	INLET SIZE (IN)								
			MAX CFM	OA MM CFM	MIN BOX FLOW CFM	"F"	DELTA P IN H2O	HEATING CFM	EAT °F	LAT °F			CAPACITY BTUH	KW	VOLTS	PHASE	STEPS/CFM	1		2	3
VAV 1-1-1	CORRIDORS	1650	1650	290	550	52.0	0.17	825	52.0	86.3	30717	9	480	3	2	CARRIER	35E	12	1	2	---
VAV 1-1-2	ITINERANT OFFICE	375	375	30	125	52.0	0.1	187.5	52.0	86.6	6826	2	277	1	2	CARRIER	35E	6	1	2	---
VAV 1-1-3	MEP	300	300	0	100	52.0	0.21	---	---	---	---	---	---	---	---	---	---	---	---	---	---
VAV 1-1-4	TEXTBOOK/ITINERANT/PRODUCTION	700	700	130	235	52.0	0.1	350	52.0	83.5	11945.5	3.5	277	1	2	CARRIER	35E	8	1	2	---
VAV 1-1-5	2 ESE	200	200	35	75	52.0	0.24	100	52.0	83.5	3413	1	277	1	2	CARRIER	35E	4	1	2	---
VAV 1-1-6	2 ITINERANT OFFICE	550	550	90	185	52.0	0.1	275	52.0	86.3	10239	3	277	1	2	CARRIER	35E	8	1	2	---
VAV 1-1-7	SROW/RECORD VAULT/CORRIDOR	350	350	60	120	52.0	0.1	175	52.0	87.9	6826	2	277	1	2	CARRIER	35E	6	1	2	---
VAV 1-1-8	BOOKS/REPERIC	250	250	40	85	52.0	0.1	125	52.0	89.7	5119.5	1.5	277	1	2	CARRIER	35E	6	1	2	---
VAV 1-1-9	PRINCIPAL OFFICE/ CONFERENCE	500	500	85	170	52.0	0.1	250	52.0	83.5	8532.5	2.5	277	1	2	CARRIER	35E	8	1	2	---
VAV 1-1-10	3 OFFICES	375	375	60	125	52.0	0.1	187.5	52.0	85.6	6826	2	277	1	2	CARRIER	35E	6	1	2	---
VAV 1-1-11	CORRIDOR / ADMIN ST	625	625	110	210	52.0	0.1	312.5	52.0	87.2	11945.5	3.5	277	1	2	CARRIER	35E	8	1	2	---
VAV 1-1-12	RECEPTION/ADMIN LOBBY	775	775	130	260	52.0	0.17	387.5	52.0	84.5	13662	4	277	1	2	CARRIER	35E	8	1	2	---
VAV 1-1-13	CONFERENCE ROOM	450	450	80	150	52.0	0.17	225	52.0	87.0	8532.5	2.5	277	1	2	CARRIER	35E	6	1	2	---
VAV 1-1-14	CLINIC	450	450	80	150	52.0	0.17	225	52.0	87.0	8532.5	2.5	277	1	2	CARRIER	35E	6	1	2	---
VAV 1-1-15	CONFERENCE ROOM	400	400	80	135	52.0	0.1	200	52.0	83.5	6826	2	277	1	2	CARRIER	35E	6	1	2	---
VAV 1-2-1	CLASSROOM	900	900	175	300	52.0	0.1	450	52.0	83.5	15358.5	4.5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-2-2	DATA ROOM	300	300	0	100	52.0	0.21	---	---	---	---	---	---	---	---	---	---	---	---	---	---
VAV 1-2-3	CLASSROOM	900	900	175	300	52.0	0.1	450	52.0	83.5	15358.5	4.5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-2-4	CLASSROOM	900	900	175	300	52.0	0.1	450	52.0	83.5	15358.5	4.5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-2-5	CORRIDOR	1050	1050	200	350	52.0	0.1	525	52.0	82.0	17665	5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-2-6	CLASSROOM	900	900	175	300	52.0	0.1	450	52.0	83.5	15358.5	4.5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-2-7	CLASSROOM	900	900	175	300	52.0	0.1	450	52.0	83.5	15358.5	4.5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-2-8	CLASSROOM	900	900	175	300	52.0	0.1	450	52.0	83.5	15358.5	4.5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-2-9	RESOURCE ROOM	500	500	100	170	52.0	0.1	250	52.0	83.5	8532.5	2.5	277	1	2	CARRIER	35E	8	1	2	---
VAV 1-2-10	RESOURCE ROOM	500	500	100	170	52.0	0.1	250	52.0	83.5	8532.5	2.5	277	1	2	CARRIER	35E	8	1	2	---
VAV 1-3-1	CLASSROOM	900	900	190	300	52.0	0.1	450	52.0	83.5	15358.5	4.5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-3-2	CLASSROOM	900	900	190	300	52.0	0.1	450	52.0	83.5	15358.5	4.5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-3-3	CLASSROOM	900	900	190	300	52.0	0.1	450	52.0	83.5	15358.5	4.5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-3-4	CLASSROOM	900	900	190	300	52.0	0.1	450	52.0	83.5	15358.5	4.5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-3-5	CLASSROOM	900	900	190	300	52.0	0.1	450	52.0	83.5	15358.5	4.5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-3-6	CLASSROOM	900	900	190	300	52.0	0.1	450	52.0	83.5	15358.5	4.5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-3-7	CLASSROOM	900	900	195	300	52.0	0.1	450	52.0	83.5	15358.5	4.5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-3-8	CLASSROOM	900	900	195	300	52.0	0.1	450	52.0	83.5	15358.5	4.5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-3-9	CORRIDOR	930	930	220	310	52.0	0.1	465	52.0	82.4	15358.5	4.5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-4-1	CCTV PROD. & CONTROL	310	310	60	105	52.0	0.1	155	52.0	82.4	5119.5	1.5	277	1	2	CARRIER	35E	6	1	2	---
VAV 1-4-2	MEDIA DIRECTOR'S OFFICE	115	115	25	75	52.0	0.1	90	52.0	87.0	3413	1	277	1	2	CARRIER	35E	4	1	2	---
VAV 1-4-3	TECH COSMALL GROUP	270	270	40	90	52.0	0.21	135	52.0	87.0	5119.5	1.5	277	1	2	CARRIER	35E	5	1	2	---
VAV 1-4-4	SMALL GROUP / AV	365	365	45	125	52.0	0.1	182.5	52.0	86.5	6826	2	277	1	2	CARRIER	35E	6	1	2	---
VAV 1-4-5	MEDIA PRODUCTION LAB	300	300	55	100	52.0	0.21	150	52.0	83.5	5119.5	1.5	277	1	2	CARRIER	35E	5	1	2	---
VAV 1-4-6	MEDIA READING / STACKS	1200	1200	230	400	52.0	0.17	600	52.0	88.7	23891	7	480	3	2	CARRIER	35E	10	1	2	---
VAV 1-4-7	MEDIA READING / STACKS	1200	1200	230	400	52.0	0.17	600	52.0	88.7	23891	7	480	3	2	CARRIER	35E	10	1	2	---
VAV 1-4-8	MEDIA READING / STACKS	1600	1600	240	535	52.0	0.1	800	52.0	81.5	25697.5	7.5	480	3	2	CARRIER	35E	12	1	2	---
VAV 1-5-1	DATA / ELECTRICAL	550	550	0	185	52.0	0.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
VAV 1-5-2	ESE FULL TIME	900	900	180	300	52.0	0.1	450	52.0	83.5	15358.5	4.5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-5-3	ESE FULL TIME	900	900	180	300	52.0	0.1	450	52.0	83.5	15358.5	4.5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-5-4	CLASSROOM	900	900	180	300	52.0	0.1	450	52.0	83.5	15358.5	4.5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-5-5	CLASSROOM	900	900	180	300	52.0	0.1	450	52.0	83.5	15358.5	4.5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-5-6	CLASSROOM	900	900	180	300	52.0	0.1	450	52.0	83.5	15358.5	4.5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-5-7	CLASSROOM	900	900	180	300	52.0	0.1	450	52.0	83.5	15358.5	4.5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-5-8	CLASSROOM	900	900	180	300	52.0	0.1	450	52.0	83.5	15358.5	4.5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-5-9	CLASSROOM	900	900	180	300	52.0	0.1	450	52.0	83.5	15358.5	4.5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-5-10	CLASSROOM	900	900	180	300	52.0	0.1	450	52.0	83.5	15358.5	4.5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-5-11	CLASSROOM	900	900	180	300	52.0	0.1	450	52.0	83.5	15358.5	4.5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-5-12	ESE RESOURCE	450	450	95	150	52.0	0.17	225	52.0	87.0	8532.5	2.5	277	1	2	CARRIER	35E	6	1	2	---
VAV 1-5-13	ESE RESOURCE	450	450	95	150	52.0	0.17	225	52.0	87.0	8532.5	2.5	277	1	2	CARRIER	35E	6	1	2	---
VAV 1-5-14	TEACHER PLANNING	900	900	180	300	52.0	0.1	450	52.0	83.5	15358.5	4.5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-5-15	CORRIDOR	900	900	200	300	52.0	0.1	450	52.0	83.5	15358.5	4.5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-5-16	CORRIDOR	900	900	200	300	52.0	0.1	450	52.0	83.5	15358.5	4.5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-6-1	ESE OT/PT ROOM	750	750	115	250	52.0	0.17	375	52.0	81.4	11945.5	3.5	277	1	2	CARRIER	35E	8	1	2	---
VAV 1-6-2	ART	1100	1100	200	370	52.0	0.1	550	52.0	83.5	18771.5	5.5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-6-3	SKILLS LAB	950	950	145	320	52.0	0.1	475	52.0	81.9	15358.5	4.5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-6-4	MUSIC	1300	1300	200	435	52.0	0.17	650	52.0	85.9	23891	7	480	3	2	CARRIER	35E	10	1	2	---
VAV 1-6-5	DEAN OFFICE	125	125	40	75	52.0	0.1	90	52.0	87.0	3413	1	277	1	2	CARRIER	35E	4	1	2	---
VAV 1-6-6	GUIDANCE SUITE / CORRIDOR	475	475	85	160	52.0	0.1	237.5	52.0	85.1	8532.5	2.5	277	1	2	CARRIER	35E	8	1	2	---
VAV 1-6-7	FAMILY LIASON / PASS	600	600	90	200	52.0	0.1	300	52.0	83.5	10239	3	277	1	2	CARRIER	35E	8	1	2	---
VAV 1-6-8	CORRIDOR	1175	1175	190	395	52.0	0.17	587.5	52.0	85.8	22184.5	6.5	480	3	2	CARRIER	35E	10	1	2	---
VAV 1-8-1	CLASSROOM	900	900	195	300	52.0	0.1	450	52.0	83.5	15358.5	4.5	277	1	2	CARRIER	35E	10	1	2	---
VAV 1-8-2	CLASSROOM	900	900	195	300	52.0	0.1	450	52.0	83.5	15358.5	4.5	277	1	2	CARRIER	35E	10	1		