

# Site Plans for Condev Self Storage Hills of Minneola PUD - Area 5, Pod 19 City of Minneola, FL

**LEGAL DESCRIPTION:**

PARCEL 1 (SEE SIMPLE ESTATE):  
A PARCEL OF LAND COMPRISING A PORTION OF LOTS 7, 10, 11 AND 23 OF THE LAKE HIGHLANDS COMPANY PLAT AS RECORDED IN PLAT BOOK 3, PAGE 24 OF THE PUBLIC RECORDS OF LAKE COUNTY, FLORIDA, ALL LYING IN SECTION 9, TOWNSHIP 22 SOUTH, RANGE 26 EAST, LAKE COUNTY, FLORIDA,

BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NORTHWEST CORNER OF AFORESAID SECTION 9; THENCE RUN SOUTH 89°40'24" EAST ALONG THE NORTH LINE OF SAID SECTION 9 FOR A DISTANCE OF 9.84 FEET; THENCE DEPARTING SAID NORTH LINE RUN SOUTH 62°11'04" EAST FOR A DISTANCE OF 1089.25 FEET TO THE POINT OF CURVATURE OF A CURVE, CONCAVE SOUTHWESTERLY HAVING A RADIUS OF 837.00 FEET, WITH A CHORD BEARING OF SOUTH 37°40'45" EAST, AND A CHORD DISTANCE OF 131.50 FEET; THENCE RUN SOUTHWESTERLY THROUGH A CENTRAL ANGLE OF 09°02'39" ALONG THE ARC OF SAID CURVE FOR A DISTANCE OF 131.63 FEET TO THE POINT OF BEGINNING, BEING A POINT ON A CURVE, CONCAVE SOUTHWESTERLY HAVING A RADIUS OF 837.00 FEET, WITH A CHORD BEARING OF SOUTH 40°12'12" EAST, AND A CHORD DISTANCE OF 232.12 FEET; THENCE RUN SOUTHWESTERLY THROUGH A CENTRAL ANGLE OF 15°56'27" ALONG THE ARC OF SAID CURVE FOR A DISTANCE OF 232.87 FEET TO A POINT ON A NON-TANGENT LINE; THENCE RUN SOUTH 37°13'59" EAST, FOR A DISTANCE OF 40.07 FEET; THENCE RUN SOUTH 42°36'44" EAST, FOR A DISTANCE OF 42.67 FEET; THENCE RUN SOUTH 37°13'59" EAST, FOR A DISTANCE OF 18.32 FEET TO THE POINT OF CURVATURE OF A CURVE, CONCAVE SOUTHWESTERLY HAVING A RADIUS OF 126.00 FEET, WITH A CHORD BEARING OF SOUTH 49°05'05" EAST, AND A CHORD DISTANCE OF 90.86 FEET; THENCE RUN SOUTHERLY THROUGH A CENTRAL ANGLE OF 42°10'07" ALONG THE ARC OF SAID CURVE FOR A DISTANCE OF 92.95 FEET TO A POINT OF REVERSE CURVATURE OF A CURVE, CONCAVE EASTERLY HAVING A RADIUS OF 124.00 FEET, WITH A CHORD BEARING OF SOUTH 02°57'51" EAST, AND A CHORD DISTANCE OF 34.51 FEET; THENCE RUN SOUTHERLY THROUGH A CENTRAL ANGLE OF 19°58'56" ALONG THE ARC OF SAID CURVE FOR A DISTANCE OF 34.63 FEET TO A POINT OF REVERSE CURVATURE OF A CURVE, CONCAVE NORTHWESTERLY HAVING A RADIUS OF 26.00 FEET, WITH A CHORD BEARING OF SOUTH 1°42'34" WEST, AND A CHORD DISTANCE OF 22.27 FEET; THENCE RUN SOUTHWESTERLY THROUGH A CENTRAL ANGLE OF 50°51'11" ALONG THE ARC OF SAID CURVE FOR A DISTANCE OF 23.02 FEET TO A POINT OF COMPOUND CURVATURE OF A CURVE, CONCAVE NORTHWESTERLY HAVING A RADIUS OF 176.00 FEET, WITH A CHORD BEARING OF SOUTH 47°27'02" WEST, AND A CHORD DISTANCE OF 48.55 FEET; THENCE RUN SOUTHWESTERLY THROUGH A CENTRAL ANGLE OF 15°11'58" ALONG THE ARC OF SAID CURVE FOR A DISTANCE OF 46.69 FEET TO A POINT ON A NON-TANGENT LINE; THENCE RUN SOUTH 32°57'50" EAST, FOR A DISTANCE OF 73.34 FEET TO A POINT ON A NON-TANGENT CURVE, CONCAVE SOUTHWESTERLY HAVING A RADIUS OF 476.00 FEET, WITH A CHORD BEARING OF NORTH 88°54'15" EAST, AND A CHORD DISTANCE OF 45.52 FEET; THENCE RUN NORTHEASTERLY THROUGH A CENTRAL ANGLE OF 05°28'54" ALONG THE ARC OF SAID CURVE FOR A DISTANCE OF 45.54 FEET TO A POINT OF COMPOUND CURVATURE OF A CURVE, CONCAVE SOUTHERLY HAVING A RADIUS OF 26.00 FEET, WITH A CHORD BEARING OF NORTH 88°53'34" EAST, AND A CHORD DISTANCE OF 23.81 FEET; THENCE RUN NORTHEASTERLY THROUGH A CENTRAL ANGLE OF 54°28'43" ALONG THE ARC OF SAID CURVE FOR A DISTANCE OF 24.73 FEET TO A POINT OF REVERSE CURVATURE OF A CURVE, CONCAVE NORTHEASTERLY HAVING A RADIUS OF 124.00 FEET, WITH A CHORD BEARING OF SOUTH 77°40'16" EAST, AND A CHORD DISTANCE OF 59.20 FEET; THENCE RUN SOUTHWESTERLY THROUGH A CENTRAL ANGLE OF 27°32'37" ALONG THE ARC OF SAID CURVE FOR A DISTANCE OF 59.78 FEET TO A POINT OF REVERSE CURVATURE OF A CURVE, CONCAVE SOUTHWESTERLY HAVING A RADIUS OF 76.00 FEET, WITH A CHORD BEARING OF SOUTH 76°28'33" EAST, AND A CHORD DISTANCE OF 34.34 FEET; THENCE RUN SOUTHWESTERLY THROUGH A CENTRAL ANGLE OF 26°06'50" ALONG THE ARC OF SAID CURVE FOR A DISTANCE OF 34.64 FEET TO A POINT ON A NON-TANGENT LINE; THENCE RUN SOUTH 37°14'23" EAST, FOR A DISTANCE OF 164.14 FEET; THENCE RUN SOUTH 61°31'30" WEST, FOR A DISTANCE OF 417.13 FEET; THENCE RUN NORTH 28°28'30" WEST, FOR A DISTANCE OF 339.76 FEET; THENCE RUN NORTH 89°18'05" WEST, FOR A DISTANCE OF 96.00 FEET; THENCE RUN NORTH 12°29'05" EAST, FOR A DISTANCE OF 512.33 FEET TO THE POINT OF BEGINNING.

CONTAINING 222,078 SQUARE FEET, 5.10 ACRES MORE OR LESS.

**PARCEL 2 (EASEMENT)**

TOGETHER WITH PERPETUAL, NON-EXCLUSIVE EASEMENT FOR PEDESTRIAN AND VEHICULAR INGRESS AND EGRESS FOR THE BENEFIT OF PARCEL 1 DESCRIBED HEREIN AS SET FORTH AND CREATED BY THAT CERTAIN RECIPROCAL DRIVEWAY ACCESS EASEMENT AGREEMENT BY AND BETWEEN NAP HOM LLC, A DELAWARE LIMITED LIABILITY COMPANY AND JEN FLORIDA 30, LLC, A FLORIDA LIMITED LIABILITY COMPANY, RECORDED FEBRUARY 20, 2020 IN OFFICIAL RECORDS BOOK 5425, PAGE 225, PUBLIC RECORDS OF LAKE COUNTY, FLORIDA, OVER, UNDER AND ACROSS THE LANDS DESCRIBED THEREIN.

**PARCEL 3 (EASEMENT)**

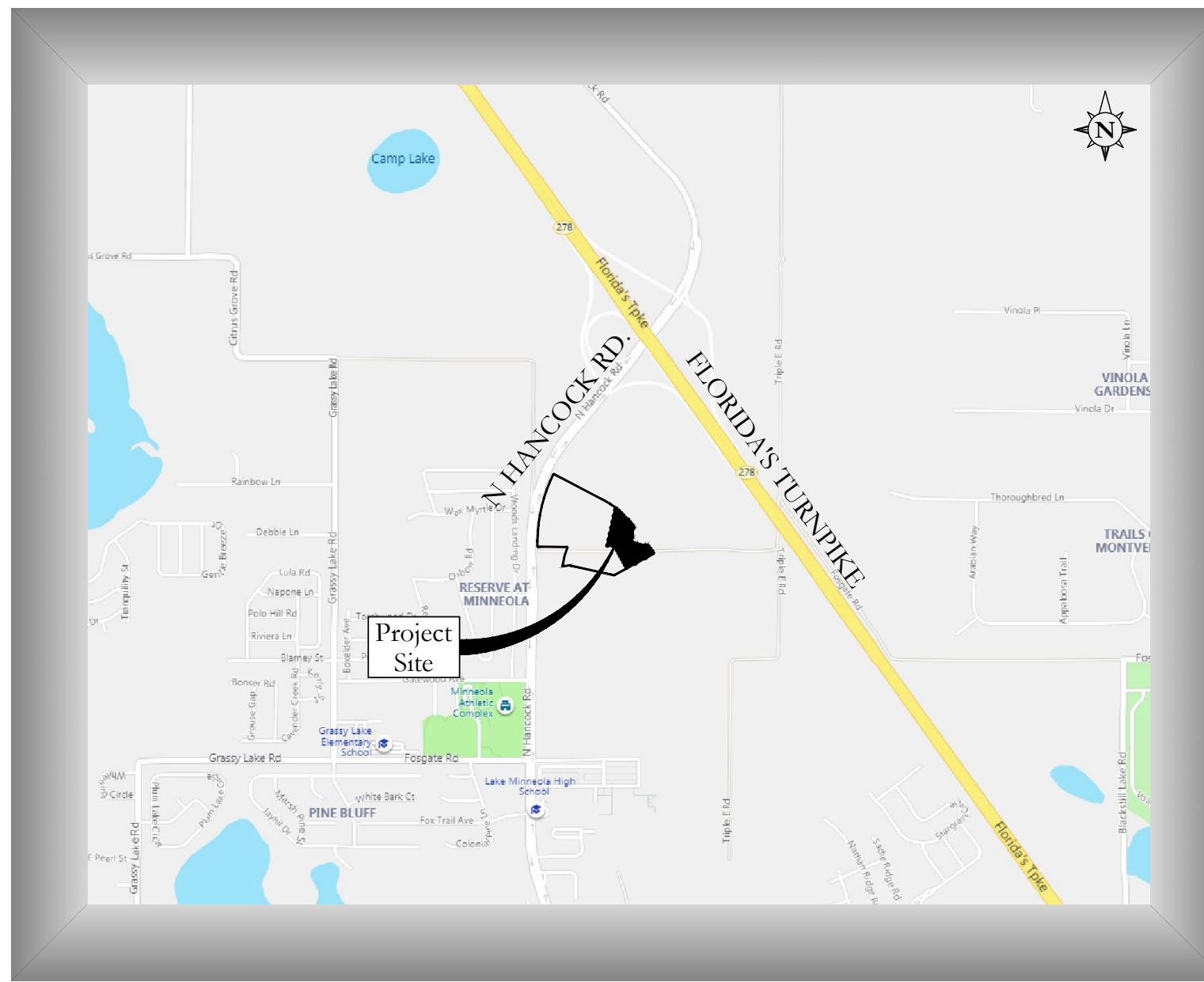
TOGETHER WITH PERPETUAL, NON-EXCLUSIVE EASEMENT FOR STORMWATER DRAINAGE FOR THE BENEFIT OF PARCEL 1 DESCRIBED HEREIN AS SET FORTH AND CREATED BY THAT CERTAIN DECLARATION OF LIMITED CONTROL, EASEMENTS, COVENANTS AND RESTRICTIONS FOR STORMWATER TRACT BY NAP HOM LLC, A FLORIDA LIMITED LIABILITY COMPANY AND JEN FLORIDA 30, A FLORIDA LIMITED LIABILITY COMPANY, RECORDED FEBRUARY 20, 2020 IN OFFICIAL RECORDS BOOK 5425, PAGE 278, PUBLIC RECORDS OF LAKE COUNTY, FLORIDA, OVER, UNDER AND ACROSS THE LANDS DESCRIBED THEREIN.

Parcel Id. No.:  
04-22-26-0003-000-00600

**Owner:**  
**Jen Florida 30 LLC**  
**1750 W. Broadway St. Ste. 111**  
**Oviedo, FL 32765**

**Applicant:**  
**Condev Properties, LLC**  
**921 N. Pennsylvania Ave.**  
**Winter Park, FL 32798**  
**407.679.1748**

Sheet Id.	Sheet Title	Subm./Rev.							
		0	1	2	3	4	5	6	7
C0.00	Cover Sheet	■	■						
C0.01	Construction Notes	■	■						
C0.02	Construction Notes	■	■						
C0.03	Construction Notes	■	■						
C0.10	Erosion Control & Demolition Plan	■	■						
C0.11	Erosion Control Notes & Details	■	■						
C1.00	Master Site Plan	■	■						
C2.00	Site & Geometry Plan	■	■						
C3.00	Drainage & Grading Plan	■	■						
C4.00	Water & Wastewater Plan	■	■						
C5.00	Fire Protection Plan	■	■						
C6.00	Grading Sections & Details	■	■						
C6.01	Grading Sections & Details	■	■						
C6.02	Plan & Profile	■	■						
C6.10	Construction Details	■	■						
C6.20	City Of Minneola Standard Water Details	■	■						
C6.21	City Of Minneola Standard Water Details	■	■						
C6.22	City Of Minneola Standard Water Details	■	■						
C6.23	City Of Minneola Standard Water Details	■	■						
C6.30	City Of Minneola Standard Wastewater Details	■	■						
C6.31	City Of Minneola Standard Wastewater Details	■	■						
C6.40	City Of Minneola General Details	■	■						
C6.41	City Of Minneola General Details	■	■						
<b>Survey</b>									
I-2	ALTA/NSPS Land Title Boundary Survey	■							
<b>Landscape Plans</b>									
L-1	Landscape Plan	■	■						
L-2	Landscape Legend & Notes	■	■						
L-3	Landscape Planting Details	■	■						
L-4	Irrigation Plan	■	■						
L-5	Irrigation Notes & Details	■	■						
<b>Date</b>									
8/2/2022	Submit To City Of Minneola								
12/16/2022	Resubmit To City Of Minneola								



Vicinity Map  
Scale: 1" = 2,000'

Approved by City Council  
3/7/23

Civil Engineer:  
**Poulos & Bennett, LLC**  
2602 E. Livingston St  
Orlando, FL 32803  
407.487.2594

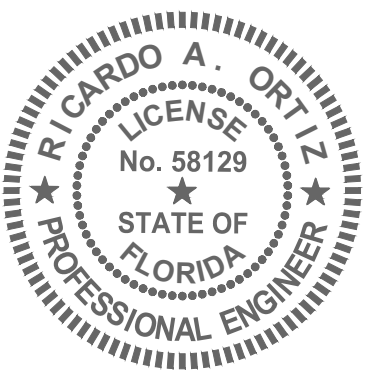
Architect  
**Farmer Architecture**  
941 Lake Baldwin Lane  
Orlando, FL 32814  
321.441.3320

Surveyor:  
**Allen & Company**  
16 E Plant St  
Winter Garden, FL 34787  
407.654.5355

Landscape Architect  
**Schweizer Bojack Landscape Architecture LLC**  
P.O. Box 948383  
Maitland, FL 32794-8383  
407.376.1423

Geotechnical Engineer:  
**Universal Engineering Sciences**  
3532 Maggie Blvd  
Orlando, FL 32811  
407.423.0504

UTILITY PROVIDERS			
Utility	Provider	Contact Name	Phone Number
TELEPHONE	CENTURY LINK	DARYL WARD	407-501-2132
WATER	CITY OF MINNEOLA	FRED MILLER	352-516-3929
ELECTRIC	DUKE ENERGY	ETHAN PARODIE	352-248-6712
ELECTRIC	SECO ENERGY	MARRETTA HICKS	352-569-9639
GAS	LAKE APOPKA NATURAL GAS DISTRICT	EVERETT HOLMES	407-656-2734
	SUNSHINE 811		1-800-432-4770



DATE: December 15, 2022

This item has been electronically signed and sealed by Ricardo A. Cortiz on the date adjacent to the seal using a SIA authentication code. Printed copies of this document are not considered signed and sealed and the SIA authentication code must be verified on any electronic copies.



2602 E. Livingston St., Orlando, FL 32803  
Tel. 407.487.2594 www.poulosandbennett.com  
Eng. Bus. No. 28567  
P&B Job No.: 20-125

NOTE:  
CONSTRUCTION PLANS WERE PREPARED IN ACCORDANCE WITH THE LATEST MANUAL OF UNIFORM STANDARDS FOR DESIGN, CONSTRUCTION, AND MAINTENANCE FOR STREETS AND HIGHWAYS, FOOT GREEN BOOK, CITY OF MINNEOLA, & LAKE COUNTY REGULATIONS AND SPECIFICATIONS.

GENERAL NOTES:

- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR(S) TO ENSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND ARE IN HAND AT THE JOB SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CONTRACTOR SHALL ABIDE BY ALL CONDITIONS CONTAINED THEREIN. PERMITS INCLUDED (BUT NOT NECESSARILY LIMITED TO) ARE:
  - WATER MANAGEMENT DISTRICT CONSUMPTIVE USE (WATER USE) FOR CONSTRUCTION DEWATERING (CUP)
  - WATER MANAGEMENT DISTRICT ENVIRONMENTAL RESOURCE PERMIT (ERP) OR MSSW
  - WATER MANAGEMENT DISTRICT WETLAND RESOURCE PERMIT
  - FDEP WATER DISTRIBUTION
  - FDEP SANITARY SEWER COLLECTION AND TRANSMISSION
  - FDEP REUSE
  - FDEP DREDGE AND FILL
  - ACOE NATIONWIDE OR INDIVIDUAL DREDGE AND FILL
  - LOCAL RIGHT OF WAY USE
  - LOCAL UNDERGROUND UTILITIES
  - FDOT DRIVEWAY CONNECTION
  - FDOT UTILITY
  - FDOT STORMWATER DISCHARGE CONNECTION
  - FDEP & EPA NPDES STORMWATER
  - FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION TORTOISE INCIDENTAL TAKE
- CONTRACTOR IS ADVISED THAT THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REQUIRES THAT OPERATORS FILE A NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NPDES GENERAL PERMIT PRIOR TO BEGINNING WORK. IN THE STATE OF FLORIDA THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION IS THE PERMITTING AGENCY. IT IS CONTRACTOR'S SOLE RESPONSIBILITY TO OBTAIN SAME. A COPY SHALL BE SENT TO OWNER.
- FLORIDA LAW (F.S. 556 - THE UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT) PROTECTION OF UNDERGROUND PIPELINES MANDATES THAT "NO EXCAVATOR SHALL COMMENCE OR PERFORM ANY EXCAVATION IN ANY PUBLIC OR PRIVATE STREET, ALLEY, RIGHT-OF-WAY DEDICATED TO THE PUBLIC USE, OR GAS UTILITY EASEMENT WITHOUT FIRST OBTAINING INFORMATION CONCERNING THE POSSIBLE LOCATION OF GAS PIPELINES IN THE AREA OF THE PROPOSED EXCAVATION." THIS INCLUDES ANY OPERATION UTILIZING HAND TOOLS OR POWER TOOLS WHICH MOVES OR REMOVES ANY STRUCTURE, EARTH, ROCK, OR OTHER MASS OF MATERIAL BY SUCH METHODS AS DIGGING, BACKFILLING, DEMOLITION, GRADING, DITCHING, DRILLING, BORING AND CABLE PLOWING. THE EXCAVATOR MUST NOTIFY THE GAS UTILITY A MINIMUM OF 48 HOURS AND A MAXIMUM OF 5 DAYS PRIOR TO EXCAVATING (EXCLUDING SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS).
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROJECT SITE DURING CONSTRUCTION, TO PREVENT TRESPASSING OF UNAUTHORIZED PEDESTRIANS AND/OR VEHICLES IN ALL WORK AREAS. THE CONTRACTOR SHALL POST SIGNS, CONSTRUCT BARRIERS OR IMPLEMENT OTHER METHODS NECESSARY TO CONTROL ACCESS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR TRESPASSING ON THE CONSTRUCTION SITE OR DAMAGES TO ANY WORK RELATED THERETO.
- CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE-CALL OF FLORIDA, INC. PRIOR TO COMMENCEMENT OF WORK IN ACCORDANCE WITH THEIR STANDARD REQUIREMENTS; INCLUDING BUT NOT LIMITED TO WATER, RECLAIMED WATER, SEWER, POWER, TELEPHONE, GAS AND CABLE TV COMPANIES.
- PRIOR TO COMMENCEMENT, CONTRACTOR SHALL PROVIDE POULOS & BENNETT WITH CONSTRUCTION SCHEDULE FOR VARIOUS SITE WORK ELEMENTS SO THAT PERIODIC SITE VISITS MAY BE COORDINATED TO ENSURE TIMELY CERTIFICATION OF COMPLETION TO AGENCIES AND AVOID DELAYS IN ISSUANCE OF CERTIFICATES OF OCCUPANCY/COMPLETION.
- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE LATEST STANDARDS OF ALL APPLICABLE AGENCIES.
- THE LOCATIONS OF EXISTING UTILITIES AND STORM DRAINAGE SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. ENGINEER ASSUMES NO RESPONSIBILITY FOR INACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ARRANGEMENTS FOR FIELD LOCATIONS AND FOR ANY RELOCATIONS OF THE VARIOUS EXISTING UTILITIES WITH THE UTILITY OWNERS, WHICH SHALL BE DONE IN A TIMELY FASHION TO MINIMIZE IMPACT ON THE CONSTRUCTION SCHEDULE. ANY DELAY OR INCONVENIENCE CAUSED BY THE CONTRACTOR BY THE RELOCATION OF THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.
- 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 AND OWNER IN WRITING. NO CLAIM FOR EXPENSES INCURRED BY THE CONTRACTOR DUE TO DIFFERING SITE CONDITIONS WILL BE ALLOWED IF CONTRACTOR FAILS TO PROVIDE THE REQUIRED WRITTEN NOTIFICATION OF SUCH CONDITIONS FOR REVIEW BY THE ENGINEER AND OWNER.
- AS PART OF THE CLEARING AND GRUBBING OPERATION, THE CONTRACTOR IS TO REMOVE ALL FENCING AND/OR EXISTING FACILITIES FROM THE SITE. CONTRACTOR IS RESPONSIBLE FOR CONDUCTING SITE VISIT TO UNDERSTAND THE EXISTING CONDITIONS OF THE SITE. IF REMOVAL OF EXISTING FACILITIES IS NOT INCLUDED IN THE BASE BID, THEN IT SHALL BE SPECIFICALLY IDENTIFIED.
- CONTRACTOR SHALL PROTECT ALL ADJACENT PROPERTIES FROM DAMAGE BY SEDIMENTATION OR OTHER POTENTIAL CONSTRUCTION RELATED CAUSES.
- IF AN EAGLE MANAGEMENT PLAN HAS BEEN FILED AND APPROVED BY FLORIDA GAME AND FRESHWATER FISH COMMISSION AND THE U.S. DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE. CONTRACTOR SHALL ABIDE BY THE PERMIT.
- MAINTAIN MINIMUM 3' COVER OVER PROPOSED GRAVITY SANITARY, FORCE MAIN, WATER AND REUSE LINES, UNLESS OTHERWISE NOTED.
- DURING CONSTRUCTION, WHEN COMBUSTIBLES ARE BROUGHT ON TO THE SITE, ACCESS ROADS AND A SUITABLE TEMPORARY OR PERMANENT SUPPLY OF WATER ACCEPTABLE TO THE FIRE DEPARTMENT SHALL BE PROVIDED.
- ALL RECOMMENDATIONS AND REQUIREMENTS OF INSPECTION PERSONNEL OTHER THAN OWNER'S SHALL BE REPORTED TO ENGINEER/OWNER/OWNERS REPRESENTATIVE PRIOR TO IMPLEMENTATION. COMPENSATION WILL NOT BE ALLOWED FOR WORK WHICH IS NOT AUTHORIZED BY ENGINEER/OWNER.
- CONTRACTOR SHALL BE EXTREMELY CAUTIOUS WHEN WORKING NEAR TREES WHICH ARE TO BE SAVED, WHETHER SHOWN IN THE PLANS OR DESIGNATED IN THE FIELD. CONTRACTOR SHALL BECOME FAMILIAR WITH AND CONFORM WITH ALL TREE PROTECTION/PRESERVATION

- PROVISIONS OF THE CONTRACT DOCUMENTS AND LOCAL GOVERNMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT AND MITIGATION COSTS FOR ANY TREES REMOVED THAT WERE DESIGNATED TO BE PRESERVED.
- ALL WORK SHALL BE OPEN TO AND SUBJECT TO INSPECTION BY AUTHORIZED PERSONNEL OF THE CITY, COUNTY, OWNER, INVOLVED UTILITY COMPANIES, PROJECT ENGINEER AND REGULATORY AGENCIES.
  - CONTRACTOR SHALL CONFIRM COMPATIBILITY OF PIPE SLOPES AND INVERTS DURING SHOP DRAWING AND MATERIALS ORDERING PHASE OF PROJECT AND ADVISE ENGINEER OF ANY DISCREPANCIES.
  - NO EXISTING MATERIAL SHALL BE USED IN NEW CONSTRUCTION UNLESS APPROVED DURING THE SHOP DRAWING APPROVAL PROCESS OR AS APPROVED BY ENGINEER/OWNER IN WRITING.
  - ALL FDOT DESIGN INDICES ARE HEREBY INCORPORATED AS PLAN REFERENCES HEREIN. CONTRACTOR IS RESPONSIBLE FOR OBTAINING COMPLETE COPIES OF ALL APPLICABLE INDEX DRAWINGS AND CONSTRUCTING ALL WORKS IN CONFORMANCE WITH THE FDOT ROADWAY AND TRAFFIC STANDARD PLANS, LATEST EDITION.
  - IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COMPLETELY STAKE AND CHECK ALL IMPROVEMENTS TO ENSURE ADEQUATE POSITIONING, BOTH HORIZONTAL AND VERTICAL PRIOR TO THE INSTALLATION OF ANY IMPROVEMENTS.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SURVEY MONUMENTATION. DISTURBED MONUMENTATION SHALL BE RESTORED BY A FLORIDA-LICENSED LAND SURVEYOR SELECTED BY THE OWNER AT CONTRACTOR'S SOLE EXPENSE
  - IMMEDIATELY AT ONSET OF CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES CRITICAL TO COMPLETING THE PROJECT (INCLUDING WATER, REUSE, SEWER, POWER, TELEPHONE, GAS, AND CABLE TV) AND SHALL EVALUATE POTENTIAL CONFLICTS. ALL SUCH CONFLICTS SHALL BE REPORTED TO ENGINEER/OWNER IMMEDIATELY UPON DISCOVERY.
  - CONTRACTOR SHALL INSTRUCT THE GEOTECHNICAL TESTING LABORATORY PROVIDING CONSTRUCTION TESTING TO PROVIDE POULOS & BENNETT WITH COPIES OF ALL SITE-WORK TEST REPORTS AS THEY ARE GENERATED. CONTRACTOR SHALL MAINTAIN THE RESPONSIBILITY OF CONSTRUCTING THE PROJECT IN STRICT ACCORDANCE WITH THE PROJECT PLANS, SPECIFICATIONS AND REQUIREMENTS. RECEIPT OF COPIES OF GEOTECHNICAL REPORTS BY POULOS & BENNETT IN NO WAY OBLIGATES POULOS & BENNETT TO ANY REVIEW, COMMENTS OR ACTIONS REGARDING THE WORK.
  - DEWATERING IS NOT ANTICIPATED FOR THIS PROJECT. HOWEVER, IF DEWATERING IS REQUIRED, THEN DISCHARGE OF GROUNDWATER FROM DEWATERING OPERATIONS REQUIRES APPROVAL FROM CITY OF MINNEOLA, FDEP AND THE APPLICABLE WATER MANAGEMENT DISTRICT. THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR OBTAINING ALL DEWATERING PERMITS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR(S) TO ENSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND ARE IN HAND AT THE JOB SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
  - WORK SHALL BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT THROUGH THE U.S. DEPARTMENT OF LABOR AND THE FLORIDA TRENCH SAFETY ACT.
  - ALL PERSONAL PROPERTY, EXCEPT MAIL BOXES, WITHIN THE RIGHT-OF-WAY THAT IS NOT RELOCATED BY THE PROPERTY OWNER SHALL BE REMOVED BY THE CONTRACTOR AS NECESSARY TO CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE PLANS. MAIL BOXES SHALL BE RELOCATED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT DESIGN STANDARD 532.
  - THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON AVAILABLE RECORDS AND SURVEYS BUT IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO AND PROTECT EXISTING FACILITIES DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING UTILITY RELOCATION WITH UTILITY OWNERS AND ENGINEER SHOULD SITE CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS.
  - SHOULD AGGRESSIVE SOILS BE ENCOUNTERED CONTRACTOR SHALL NOTIFY ENGINEER FOR REMEDIAL ACTION.
  - IMPACTS TO OFFSITE ROADWAYS, IF ANY, WILL NEED TO BE REPAIRED IN ACCORDANCE WITH CITY/COUNTY REQUIREMENTS. IF REQUIRED, CONTRACTOR SHALL OBTAIN SURETY BOND.
  - NO EQUIPMENT EXTENDING HIGHER THAN 15 FT. ABOVE EXISTING GRADE SHALL BE USED WITHIN POWER EASEMENTS.
  - THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.
  - ANY WELLS SHOWN HEREON ARE THE WELLS LOCATED TO DATE AND DO NOT NECESSARILY REPRESENT ALL WELLS ON THE PROPERTY. THE ENGINEER SHALL BE NOTIFIED OF ANY WELLS ENCOUNTERED DURING CONSTRUCTION. ALL WELLS NOT DESIGNATED TO REMAIN OR FUNCTION SHALL BE PROPERLY SEALED AND ABANDONED PER APPLICABLE AGENCY REQUIREMENTS.
  - VIBRATORY COMPACTION METHODS SHALL NOT BE USED WITHIN ANY EXISTING GAS EASEMENTS.
  - ALL LIGHT POLES AND STRUCTURES TO BE LOCATED IN THE FIELD BY SURVEYOR SHALL BE RETAINED BY CONTRACTOR. UNLESS OTHERWISE DIRECTED TO BE DISPOSED OF.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESTORATION OF ANY TRAFFIC EQUIPMENT, INCLUDING BUT NOT LIMITED TO, FIBER, LOOP SENSORS, PULL BOXES, CONDUIT, TRAFFIC SIGNALS AND CABINETS. ANY ITEMS DAMAGED BY THE CONTRACTOR WILL BE RESTORED TO THEIR ORIGINAL CONDITION UNLESS OTHERWISE AGREED UPON BY THE STATE AND/OR LOCAL ENGINEER.
  - ALL EXCAVATED AREAS TO BE SEEDED AND/OR SODDED AFTER FINISH GRADING UNLESS OTHERWISE NOTED. ALL NEWLY SEEDED/SODDED AREAS SHALL HAVE A MINIMUM OF 4" OF TOPSOIL. HOLD SOIL DOWN 2" FROM PAVEMENT ELEVATION. CONTRACTOR TO SUPPLY STRAW MULCH WHERE GRASS SEED HAS BEEN PLANTED.
  - ALL EXISTING EASEMENTS, RIGHTS-OF-WAY, AND LOT LINES MAY NOT BE SHOWN. REFER TO THE ALTA/NSPS LAND TITLE SURVEY, BOUNDARY SURVEY OR TITLE WORK FOR ASSOCIATED

- ENCUMBRANCES.
- SURROUNDING DEVELOPMENT AND ELEVATIONS WERE DETERMINED FROM DESIGN DRAWINGS AS LISTED IN THE SURVEYOR SECTION. CONTRACTOR TO FIELD VERIFY ALL ELEVATIONS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF DIFFERENT.
  - PROJECT WILL BE COMPLETED IN 1 PHASE IN ACCORDANCE WITH THE COMMERCIAL DESIGN STANDARDS SET FORTH IN THE CITY OF MINNEOLA CODE.
  - SIGHT LINES SHOWN ON THE PLANS SHALL BE MAINTAINED WITHIN THE TRIANGLES BOTH HORIZONTALLY AND VERTICALLY FROM 30 INCHES TO EIGHT FEET IN HEIGHT. ALL VERTICAL SITE IMPROVEMENTS SHALL BE REMOVED OR KEPT CLEAR FROM TRIANGLES.
  - ALL MECHANICAL EQUIPMENT LOCATED OUTDOORS, SUCH AS HEATING, VENTILATION, AIR CONDITIONING, REFRIGERATION SYSTEMS, AND TRANSFORMERS SHALL BE VISUALLY SCREENED FROM ADJACENT RIGHT-OF-WAY PER CITY OF MINNEOLA REQUIREMENTS.
  - ENGINEER ASSUMES NO LIABILITY FOR VERTICAL IMPROVEMENTS. FURTHER, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE VERTICAL ELEMENTS DO NOT CONFLICT WITH IMPROVEMENTS SHOWN HEREON.
  - DUMPSTER ENCLOSURE SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE CITY OF MINNEOLA CONSTRUCTION STANDARDS AND DETAILS AND/OR THE DETAILS SHOWN HEREIN.
  - STORAGE OF MATERIALS ONSITE SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE CITY OF MINNEOLA.
  - EQUIPMENT AND CONCRETE WASH DOWN AREAS SHALL BE LOCATED AND MAINTAINED PER CITY OF MINNEOLA REQUIREMENTS.
  - A FIRE DEPARTMENT ACCESS ROAD SHALL BE PROVIDED AT THE START OF THE PROJECT AND MAINTAINED THROUGHOUT CONSTRUCTION. SIGHT LINES SHOWN ON THE PLANS SHALL BE MAINTAINED WITHIN THE TRIANGLES BOTH HORIZONTALLY AND VERTICALLY FROM 30 INCHES TO EIGHT FEET IN HEIGHT. ALL VERTICAL SITE IMPROVEMENTS SHALL BE REMOVED OR KEPT CLEAR FROM TRIANGLES.
  - MAINTENANCE OF TRAFFIC DURING CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE APPROVED M.O.T. PLAN ON FILE.
  - CONTRACTOR TO MAINTAIN ALL EXISTING SIDEWALKS OPEN DURING CONSTRUCTION, OR A SAFE, ADA COMPLIANT, TEMPORARY APPROVED PEDESTRIAN PATH SHALL BE PROVIDED UNTIL THE SIDEWALK CAN BE REOPENED.
  - RETAINING WALLS SHOWN HEREON ARE TO BE DESIGNED BY OTHERS. ENGINEER ASSUMES NO LIABILITY FOR DAMAGE OR FAILURE OF CIVIL IMPROVEMENTS CAUSED BY FAILURE OF WALLS WHETHER DIRECTLY OR INDIRECTLY. ENGINEER RECOMMENDS GEOTECHNICAL CONSULTANT REVIEW SITE CONDITIONS TO DETERMINE IF A GLOBAL STABILITY ANALYSIS FOR RETAINING WALLS IS APPROPRIATE.
  - MANHOLE LIDS, VALVE COVERS AND CLEAN-OUTS LOCATED IN TRAVEL LANES SHALL BE TRAFFIC BEARING RATED.
  - IN LAKE COUNTY PRIOR TO THE START OF LAND DISTURBING ACTIVITIES, WHICH INCLUDES DEMOLITION, EARTHWORK AND/OR CONSTRUCTION, THE DEVELOPER/CONTRACTOR SHALL PREPARE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND SUBMIT TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) A NOTICE OF INTENT (NOI) TO OBTAIN COVERAGE UNDER THE NPDES GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES (CGP) PURSUANT TO THE REQUIREMENTS OF 62-621.300(4)(A) F.A.C. A COPY OF THE NOI SHALL BE SUBMITTED TO THE OPERATOR(S) OF THE MSA. COPIES OF THE SWPPP, NOI, AND FDEP ACKNOWLEDGEMENT LETTER ARE TO BE KEPT ON THE PROJECT SITE AND MADE AVAILABLE UPON REQUEST. UPON COMPLETION OF ALL LAND DISTURBING ACTIVITIES AND AFTER FINAL STABILIZATION OF THE SITE IS COMPLETE, THE DEVELOPER/CONTRACTOR SHALL SUBMIT TO FDEP A NOTICE OF TERMINATION (NOT) TO END THEIR COVERAGE UNDER THE CGP AND PROVIDE A COPY OF THE NOT TO THE OPERATOR(S) OF THE MSA.
  - MES SHALL HAVE CHILD PREVENTION BARS/GRATES.
  - FIRE APPARATUS SHALL HAVE 13FT-6IN UNOBSTRUCTED VERTICAL CLEARANCE - TREES SHALL BE MAINTAINED AT OR ABOVE THIS HEIGHT.
  - HYDROSTATIC TESTING OF FIRE LINES SHALL COMPLY WITH NFPA 24 (10.10.2.2) - 200 PSI OR 50 PSI OVER WORKING SYSTEM PRESSURE, WHICHEVER IS GREATER FOR 2 HOURS.
  - CONTRACTOR SHALL CONTACT FIRE DEPARTMENT WITHIN 48 BUSINESS HOURS FOR UNDERGROUND PIPING INSPECTION.
  - CONTRACTOR SHALL CONTACT FIRE DEPARTMENT (352-394-3598 EXT. 202) FOR INSPECTIONS AND TESTING OF EQUIPMENT/SYSTEMS PRIOR TO PERMANENT INSTALLATION.
  - LDC SECTION 70-284(i) REQUIRES DUCTILE IRON PIPING AT ALL STREET CROSSINGS. CONTRACTOR SHALL COORDINATE WITH PUBLIC WORKS ON UTILITY PAVEMENT CROSSINGS.
- AS-BUILT NOTES:**
- THE CONTRACTOR SHALL SUBMIT A CERTIFIED SET OF RECORD DRAWINGS TO THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING INFORMATION ON THE APPROVED PLANS CONCURRENTLY WITH CONSTRUCTION PROGRESS. RECORD DRAWINGS SUBMITTED TO THE ENGINEER AS PART OF THE PROJECT ACCEPTANCE SHALL COMPLY WITH MUNICIPALITY REQUIREMENTS AND THE FOLLOWING REQUIREMENTS.
    - THE VERTICAL AND HORIZONTAL DATUMS USED SHALL BE AS STATED ON THE DRAWINGS.
    - DRAWINGS SHALL BE LEGIBLY MARKED TO RECORD ACTUAL CONSTRUCTION.
    - DRAWINGS SHALL SHOW ACTUAL LOCATION OF ALL UNDERGROUND AND ABOVE GROUND STORM DRAINAGE, POTABLE WATER AND WASTEWATER PIPING, AND RELATED APPURTENANCES. ALL CHANGES TO PIPING LOCATION INCLUDING HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES AND APPURTENANCES SHALL BE CLEARLY SHOWN AND REFERENCED TO PERMANENT SURFACE IMPROVEMENTS. DRAWINGS SHALL ALSO SHOW ACTUAL INSTALLED PIPE MATERIAL, CLASS, ETC.
    - DRAWINGS SHALL CLEARLY INDICATE VERTICAL AND HORIZONTAL SEPARATION BETWEEN POTABLE WATER MAIN AND STORM DRAINAGE/SANITARY SEWER/RECLAIMED WATER MAINS AT POINTS OF CROSSING IN ACCORDANCE WITH FDEP CRITERIA AND UTILITY PROVIDER REQUIREMENTS.
    - DRAWINGS SHALL CLEARLY SHOW ALL FIELD CHANGES OF DIMENSION AND DETAIL INCLUDING CHANGES MADE BY FIELD ORDER OR BY CHANGE ORDER.
    - DRAWINGS SHALL CLEARLY SHOW ALL DETAILS NOT ON ORIGINAL CONTRACT DRAWINGS, BUT CONSTRUCTED IN THE FIELD. ALL EQUIPMENT AND PIPING RELOCATION SHALL BE CLEARLY SHOWN.
    - LOCATION OF ALL INLETS, MANHOLES, HYDRANTS, VALVES, AND VALVE BOXES SHALL BE SHOWN. ALL VALVES SHALL BE REFERENCED FROM AT LEAST TWO AND PREFERABLY THREE PERMANENT POINTS OR BY STATE PLANE COORDINATES OR OTHER UTILITY PROVIDER

- ACCEPTABLE REFERENCE.
- DIMENSIONS BETWEEN ALL INLETS AND MANHOLES SHALL BE FIELD VERIFIED, AND THE INVERTS AND GRADE ELEVATIONS OF ALL INLETS AND MANHOLES SHALL BE SHOWN.
  - CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY FOR POND GRADINGS. AS-BUILT POND CONTOURS SHALL BE PROVIDED AT TOP OF BANK, POND BOTTOM, AND ALL GRADE BREAKS AND ELEVATIONS SPECIFIED ON THE PLANS. CONTRACTOR SHALL BE RESPONSIBLE FOR RE-GRADING POND SLOPES THAT ARE STEEPER THAN REQUIRED PER PLAN (HORIZONTAL:VERTICAL) TO A DEPTH OF 2 FT MINIMUM BELOW THE SLWT.
  - WHERE THE POTABLE WATER MAIN CROSSES OTHER UTILITIES (STORM, GRAVITY SEWER, FORCEMAIN AND RECLAIMED WATER), THE CERTIFIED AS-BUILT DRAWINGS SHALL CLEARLY INDICATE THE CONSTRUCTED ELEVATIONS, ALONG WITH PHOTOGRAPHS OF EACH CROSSING, IN SUCH A WAY THAT THE VERTICAL SEPARATION BETWEEN THE WATER MAIN AND OTHER UTILITIES MAY BE VERIFIED BY THE ENGINEER. FAILURE TO PROVIDE THIS INFORMATION WILL RESULT IN THE CONTRACTOR EXCAVATING AND SURVEYING THE UTILITIES AT THE CONTRACTOR'S SOLE EXPENSE.
  - WHERE THE POTABLE WATER MAIN CROSSES OTHER UTILITIES (STORM, GRAVITY SEWER, FORCEMAIN AND RECLAIMED WATER), THE CERTIFIED AS-BUILT DRAWINGS SHALL CLEARLY INDICATE THE LOCATIONS OF PIPE JOINTS IN SUCH A MANNER AS TO DEMONSTRATE THE PIPE IS CENTERED AT ALL THE CROSSING. FAILURE TO PROVIDE THIS INFORMATION WILL RESULT IN THE CONTRACTOR EXCAVATING AND SURVEYING THE UTILITIES AT THE CONTRACTOR'S SOLE EXPENSE.
  - WHERE UPGRADED PIPE MATERIALS ARE SHOWN IN THE PLANS OR AS DIRECTED IN THE FIELD BY THE ENGINEER OR MUNICIPALITY, THE LENGTH, LOCATIONS, FITTINGS, ETC. FOR UPGRADED PIPE SHALL BE SHOWN ON THE AS-BUILT DRAWINGS, RECORD DRAWINGS OR PHOTOS.
  - CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY FOR ALL PARK AND OPEN SPACE TRACTS GRADING. ENGINEER WILL CONFIRM COMPLIANCE WITH AGENCY REQUIREMENTS AND NOTIFY CONTRACTOR IF REMEDIAL ACTION IS NECESSARY.
- CONTRACTOR TO PLACE GRADE STAKES AT CENTER OF FRONT AND REAR LIMITS OF EACH BUILDING PAD FOR OWNER/ENGINEER INSPECTION AND APPROVAL.
  - COMPLETE CERTIFIED AS-BUILT DRAWINGS SHALL BE PROVIDED TO THE ENGINEER PRIOR TO BACTERIOLOGICAL TESTING. FAILURE TO PROVIDE ACCURATE DRAWINGS MAY RESULT IN EXPIRED TEST RESULTS AND REQUIRE ADDITIONAL TESTING AT THE CONTRACTOR'S SOLE EXPENSE.
  - AS-BUILT DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH POULOS & BENNETT CAD STANDARDS.
  - POTABLE WATER CROSSINGS - POULOS & BENNETT REQUIRES THAT AT LEAST TEN PERCENT (10%) OF THE POTABLE WATER CROSSINGS AND INSTALLATIONS BE FIELD VERIFIED BY POULOS & BENNETT STAFF. THE 10% TO BE FIELD VERIFIED WILL BE IDENTIFIED BY POULOS & BENNETT PRIOR TO CONSTRUCTION AND PROVIDED TO THE SITE CONTRACTOR.
- SURVEY AND CONTROL:**
- EXISTING TOPOGRAPHY AND CONTOURS BASED ON THE FOLLOWING:
    - SURVEYOR: ALLEN & COMPANY
    - DRAWING NO.: 20180614
    - DATED: 11/13/2018
  - SURVEYOR'S REFERENCE VERTICAL BENCHMARK:
    - DESCRIPTION: LAKE COUNTY DATUM BENCHMARK HLK157
    - ELEVATION: 288.44 NAVD 1988
- BENCHMARK LOCATION AND ELEVATION ARE AS REPRESENTED BY SURVEYOR AT THE TIME OF THE SURVEY. CONTRACTOR SHALL VERIFY ITS CORRECTNESS AT TIME OF CONSTRUCTION.

Approved by City Council  
3/7/23

Consultant:

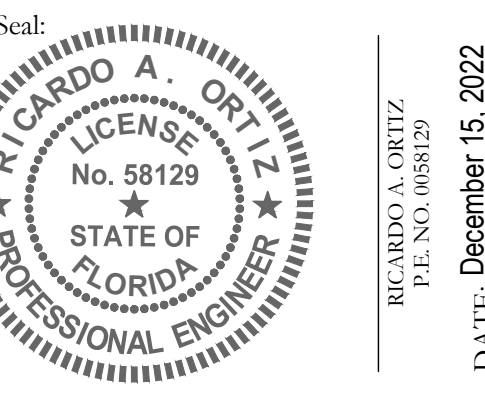
1/12/16/2022	RESUBMIT TO CITY	
0/08/02/2022	SUBMIT TO CITY	
NO.	DATE	DESCRIPTIONS
SUBMISSIONS/REVISIONS		
VERTICAL DATUM	NAVD 88	
JOB NO.	20-125	
DESIGNED BY:	RAE	
DRAWN BY:	RAE	
CHECKED BY:	RAO	
APPROVED BY:	RLB	
SCALE IN FEET:	N/A	

Project Name:  
**CONDEV  
HILLS OF  
MINNEOLA PUD  
- AREA 5, POD 19**

Jurisdiction:  
CITY OF MINNEOLA, FL

Sheet Title:  
**CONSTRUCTION  
NOTES**

Sheet No.:  
**C0.01**



This item has been electronically signed and sealed by Ricardo A. Ortiz on the date adjacent to the seal using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.



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PAVING, DRAINAGE AND GRADING:

- THE CONTRACTOR SHALL INSTALL, AS PART OF THE INFRASTRUCTURE AND PRIOR TO CERTIFICATE OF COMPLETION, DROP CURBS AND ACCESSIBLE RAMPS AT ALL INTERSECTIONS OF SIDEWALK WITH THE PROPOSED PAVEMENT TO MEET STATE OF FLORIDA ACCESSIBILITY CODE AND FEDERAL A.D.A. REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING FDEP GENERIC PERMIT FOR THE DISCHARGE OF PRODUCED GROUND WATER FROM ANY NON-CONTAMINATED SITE ACTIVITY IN ACCORDANCE OF FLORIDA ADMINISTRATIVE CODE 62-621.300 (2), 62-620, AND FLORIDA STATUTES CHAPTER 403.
- DURING CONSTRUCTION, THE GEOTECHNICAL ENGINEER PROVIDING PROJECT TESTING SHALL MONITOR CONSTRUCTION CONDITIONS AND PROVIDE RECOMMENDATIONS FOR ADDITIONAL ROADWAY UNDERDRAINS AS NEEDED. ENGINEER SHALL BE NOTIFIED OF ANY SUCH RECOMMENDATIONS.
- ALL UPLAND DEVELOPMENT ONSITE AREA, EXCLUDING LANDSCAPE AREAS, SHALL, AT A MINIMUM, BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 TEST METHOD. THIS REQUIREMENT APPLIES TO ALL WORK PREPARED BY THE GENERAL CONTRACTOR AND SUB-CONTRACTORS PERFORMING WORK ONSITE. ENGINEER RESERVES RIGHT TO WITHHOLD PAYMENT FOR ANY AREA THAT DOES NOT MEET DENSITY AS SPECIFIED.
- PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD STAKE AND ROPE OFF CONSERVATION AREA LINES. OWNER RESERVES THE RIGHT TO CHECK THE STAKING AND ROPING AND REQUIRE IT TO BE RELOCATED IF NECESSARY. IT SHALL REMAIN IN PLACE UNTIL ADJACENT CONSTRUCTION IS COMPLETE.
- ALL SIGNAGE, PAVEMENT MARKING AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH FDOT "STANDARD PLANS" AND FHWA "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES"; LATEST EDITIONS.
- REGULATORY SIGNS (STOP, ETC.) SHALL BE IN PLACE PRIOR TO FINAL INSPECTION OF PAVING AND DRAINAGE IMPROVEMENTS. UNLESS SIGNAGE IS PROVIDED BY THE MUNICIPALITY
- PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCE BETWEEN CENTERLINES OF DRAINAGE STRUCTURES AND FROM INVERTS OF ENDWALLS AND/OR MITERED END SECTIONS. BIDDERS SHALL ADJUST FOR PIPE LENGTHS WHEN BIDDING MITERED END SECTIONS.
- CONTRACTOR SHALL NOT COMPACT, STABILIZE, OR CONSTRUCT BASE COURSE WITHIN LANDSCAPE ISLANDS, TRACTS OR MEDIANS. WHERE SUCH TREATMENT DOES OCCUR, IT SHALL BE REMOVED AND REPLACED WITH SUITABLE PLANTING SOILS ACCEPTABLE TO OWNER'S LANDSCAPE ARCHITECT.
- ALL PAVEMENT RETURN RADII SHALL BE 25' AND MEASURED FROM THE INTERFACE TO THE CONCRETE CURB AND PAVEMENT SURFACE UNLESS OTHERWISE NOTED.
- SITE GRADING, PAVING AND DRAINAGE MATERIALS AND CONSTRUCTION SHALL CONFORM TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- STORM DRAINS SHALL BE REINFORCED CONCRETE PIPE, PER ASTM C-76 CLASS III, UNLESS OTHERWISE SPECIFIED. LIFTING HOLES ARE PROHIBITED.
- UNDERDRAIN, IF ANY, SHALL BE HEAVY-DUTY CORRUGATED POLYETHYLENE PIPE WITH FACTORY-INSTALLED FILTER FABRIC AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS (ADS), OR APPROVED EQUAL.
- UNDERDRAIN DISCHARGE PIPE, IF ANY, SHALL BE PVC PER ASTM D3034 SDR 35 WITH ELASTOMERIC JOINTS, NON-PERFORATED.
- YARD DRAINS, IF ANY, SHALL BE NYOPLAST INLINE DRAINS AND DRAIN BASINS AS APPLICABLE WITH CAST IRON GRATES AND WATERTIGHT ADAPTER CONNECTIONS (OR APPROVED EQUAL).
- YARD DRAIN PIPING: PVC CONFORMING TO ASTM D3034, SDR35 SHALL BE USED FOR ALL PIPE RUNS IN WHICH ANY PART LIES UNDER PAVED AREAS. SAID PVC OR HEAVY DUTY CORRUGATED POLYETHYLENE MAY BE USED FOR ALL OTHER RUNS. MATERIAL SELECTION SHALL BE CONSISTENT THROUGHOUT THE PROJECT.
- DITCH BOTTOM AND CONTROL STRUCTURE INLET GRATES SHALL BE SECURED WITH CHAIN AND EYEBOLT.
- FIVE (5) FEET OF SOD IS REQUIRED AROUND ALL DITCH BOTTOM INLETS, MANHOLES, HEADWALLS AND MITERED END SECTIONS.
- THE LIMITS OF THE POND TRACTS SHALL BE SODDED FROM TRACT LIMITS TO 2' BELOW NCL. IN THE CASE OF DRY BOTTOM PONDS, THE BOTTOM WILL BE SEEDED AND MULCHED UNLESS OTHERWISE SPECIFIED.
- BLUE REFLECTIVE PAVEMENT MARKERS FOR ALL FIRE HYDRANTS SHALL BE PLACED IN THE CENTER OF THE NEAREST TRAVELED LANE TO MARK THEIR LOCATIONS.
- CONCRETE SIDEWALKS (AS SPECIFIED BY APPROPRIATE ROADWAY SECTION) ADJACENT TO ALL LOTS TO BE INSTALLED BY HOME BUILDER. SIDEWALKS ADJACENT TO PONDS, PARKS, AND OPEN SPACE, AS WELL AS TRACT ACCESS APRONS AS SHOWN ON PLANS, ARE TO BE CONSTRUCTED WITH INFRASTRUCTURE.
- TOP ELEVATIONS OF MANHOLES IN GRASSED AREAS SHALL BE AT MINIMUM 4 INCHES ABOVE FINISH GRADE.
- MINIMUM LONGITUDINAL SLOPE OF CURB SHALL BE 0.50% UNLESS SPECIFIED OTHERWISE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE DOCUMENTATION, FOR ADS STORM PIPE, FROM THE PIPE MANUFACTURER CONFIRMING THAT SUFFICIENT COVER HAS BEEN PROVIDED TO PREVENT FLOTATION. IN THE EVENT THAT ADEQUATE COVER IS NOT PROVIDED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN DESIGN AND CONSTRUCTION SPECIFICATIONS FROM THE MANUFACTURER, FOR THE ADS PIPE ANCHORING SYSTEM. IF ADS STORM PIPE IS USED THEN MITERED END SECTIONS (MES) MAY BE SUBSTITUTED FOR FLARED END SECTIONS (FES) AT PIPE RUN TERMINATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING PROPER TRAFFIC MAINTENANCE AND CONTROLS IN ACCORDANCE WITH REGULATORY STANDARDS. WHERE A TRAFFIC MAINTENANCE PLAN IS REQUIRED, THE CONTRACTOR SHALL HAVE THE PLAN PREPARED BY AN FDOT CERTIFIED DESIGNER AND SUBMIT THE PLAN FOR APPROVAL.
- GEOTECHNICAL SERVICES HAVE BEEN PROVIDED AS REFERENCED BELOW. GEOTECHNICAL RECOMMENDATIONS ARE NOT THE RESPONSIBILITY OF POULOS & BENNETT. POULOS & BENNETT HAS RELIED ON THE BELOW REFERENCED GEOTECHNICAL REPORT(S) IN PREPARATION OF THE DRAWINGS. ANY CONFLICT BETWEEN INFORMATION WITHIN THE REPORT AND THESE DRAWINGS SHALL BE REPORTED TO ENGINEER/OWNER. POULOS & BENNETT ASSUMES NO RESPONSIBILITY FOR THE CORRECTNESS, COMPLETENESS OR ACCURACY OF GEOTECHNICAL

INFORMATION.

GEOTECHNICAL ENGINEER: UNIVERSAL ENGINEERING SCIENCES  
 REPORT NO(S): 1629177  
 DATE (S): DECEMBER 4, 2018

- CONTRACTOR IS RESPONSIBLE FOR GRADING ALL PAVEMENTS TO DRAIN POSITIVELY. INTERSECTIONS SHALL BE TRANSITIONED TO PROVIDE A SMOOTH DRIVING SURFACE WHILE MAINTAINING POSITIVE DRAINAGE. SHALL AREAS OF POOR DRAINAGE BE OBSERVED, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PLACEMENT OF CURBS OR PAVEMENT COURSES, SO THAT RECOMMENDATIONS FOR CORRECTION MAY BE MADE.
- FINISHED FLOOR ELEVATION IS TYPICALLY 8" INCHES ABOVE DESIGN FINISHED GRADE AT OUTSIDE PERIMETER OF BUILDINGS EXCEPT AT ENTRIES AND WHERE OTHERWISE SHOWN.
- 100-YEAR FLOOD ELEVATIONS SHOWN HEREIN ARE DERIVED FROM (FEMA/FLOOD INSURANCE RATE MAP OF LAKE COUNTY, COMMUNITY PANEL #580 OF 750, DATED 12/18/2012).
- ALL DISTURBED FDOT, CITY AND COUNTY RIGHTS OF WAY SHALL BE RESTORED. SOD SHALL BE PLACED FROM EDGE OF PAVEMENT TO THE TOE OF BANK AND ALL AREAS SHALL MATCH OR EXCEED PRECONSTRUCTION CONDITIONS.
- FINISHED FLOOR ELEVATIONS ARE MINIMUM ELEVATIONS REQUIRED TO SATISFY DRAINAGE AND/OR 100-YEAR FLOODPLAIN REQUIREMENTS. PAD ELEVATIONS, IMMEDIATELY OUTSIDE OF BUILDING WALLS SHALL BE NO MORE THAN 8 INCHES BELOW THE FINISHED FLOOR ELEVATIONS SHOWN UNLESS OTHERWISE NOTED IN CONJUNCTION WITH A STEM WALL.
- ALL OFF-SITE DISTURBED AREAS SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION, OR BETTER.
- OVER-EXCAVATION OF RETENTION BASINS SHALL NOT BE ALLOWED UNLESS SPECIFICALLY AUTHORIZED BY ENGINEER/OWNER. SHALL UNAUTHORIZED OVER-EXCAVATION OCCUR, IT SHALL BE BACKFILLED, REGRADED, RESODDED AND/OR RESEEDDED AS REQUIRED BY OWNER AT CONTRACTOR'S EXPENSE TO OWNER'S SPECIFICATIONS.
- CONTRACTOR SHALL REMOVE ALL MUCK DEPOSITS IN CONSTRUCTION AREAS AND AREAS TO BE FILLED. SEE GEOTECHNICAL REPORT.
- ENGINEER RESERVES THE RIGHT TO WITHHOLD AUTHORIZATION FOR PAYMENT FOR ANY ROADWORK WHICH HAS NOT BEEN TESTED BY A FLORIDA-REGISTERED GEOTECHNICAL ENGINEER AND REPORTED TO CONFORM TO PROJECT SPECIFICATIONS.
- ROAD GRADING AND CONSTRUCTION SHALL INCLUDE BRINGING ANY UTILITY EASEMENTS, AS SHOWN OR NOTED ON THE PLAT OR CONSTRUCTION DRAWINGS, ADJACENT TO THE RIGHT-OF-WAY LINE TO WITHIN 6 INCHES OF FINAL DESIGN GRADE. LOT GRADING REQUIREMENT MAY BE MORE STRINGENT.
- DRAINAGE MANHOLES AND INLETS (NOT INCLUDING CONTROL STRUCTURES) IN THE PLANS ARE IDENTIFIED BY TOP TYPE ONLY. CONTRACTOR SHALL PROVIDE STANDARD DITCH BOTTOM INLET, J OR P STRUCTURE BOTTOMS, SIZED AS REQUIRED TO ACCOMMODATE PIPE SIZES AND ORIENTATIONS SHOWN. SHOP DRAWINGS SHALL BE SUBMITTED WHICH CLEARLY REPRESENT SUCH DATA.
- ANY PROPOSED RETAINING WALLS SHALL BE DESIGNED BY A STRUCTURAL ENGINEER.
- NEW PIPES SHALL BE CONNECTED TO EXISTING PIPES AT AN EXISTING FACTORY MADE JOINT. REMOVE PARTIAL PIPES IF AND AS NEEDED.
- CONTRACTOR SHALL STABILIZE AND PROTECT ALL END WALL, MITERED END SECTION, FLARED END SECTION, ETC. STRUCTURES THROUGHOUT THE PROJECT UNTIL THE BANK SLOPES OF THE RECEIVING WATER BODY ARE STABILIZED AND ACCEPTED BY OWNER.
- CONTRACTOR/BIDDER SHALL OBSERVE OFFSITE ROADWAYS FOR FRICTION COURSE REMOVAL AND RESTORATION REQUIREMENTS AND FOR LEVELING COURSE REQUIREMENTS WHICH SHALL BE INCLUDED IN THE BID AND IN THE WORK.
- THIS PROJECT WAS DESIGNED TO BE IN COMPLIANCE WITH CITY OF MINNEOLA, SJRWMD, FDOT, & FEMA STANDARDS AND REQUIREMENTS. THE DEGREE OF FLOOD PROTECTION AND SURFACE AND GROUNDWATER PROTECTION REQUIRED BY THESE STANDARDS IS CONSIDERED REASONABLE FOR REGULATORY PURPOSES AND IS BASED ON SCIENTIFIC AND ENGINEERING CONSIDERATIONS. LARGER FLOODS CAN AND WILL OCCUR ON RARE OCCASIONS. FLOOD HEIGHTS MAY BE INCREASED BY MANMADE OR NATURAL CAUSES. THESE STANDARDS DO NOT IMPLY THAT LAND OUTSIDE AREAS OF SPECIAL FLOOD HAZARD AREAS OR USES PERMITTED WITHIN SUCH AREAS WILL BE FREE FROM FLOODING OR DAMAGES. THESE STANDARDS SHALL NOT CREATE LIABILITY ON THE PART OF POULOS & BENNETT LLC OR BY ANY OTHER OFFICER OR EMPLOYEE THERE FOR ANY FLOOD DAMAGES OR ADVERSE EFFECTS OF CHANGES IN QUANTITY OR QUALITY OF SURFACE OR GROUNDWATER THAT RESULT FROM RELIANCE ON THESE STANDARDS OR ANY ADMINISTRATIVE DECISION MADE THEREUNDER.

(THE UTILITY NOTES BELOW ARE PROVIDED AS MINIMUM REQUIREMENTS AND ARE NOT INTENDED TO SUPERCEDE LOCAL GOVERNMENT AND AGENCY REQUIREMENTS)

POTABLE WATER NOTES:

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN COMPLIANCE WITH AWWA STANDARDS AND IN ACCORDANCE WITH LOCAL GOVERNMENT STANDARDS.
- PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCES BETWEEN FITTINGS OF BRANCHES AND MAINS.
- DEFLECTIONS AT PIPE JOINTS SHALL NOT EXCEED THOSE RECOMMENDED BY THE PIPE MANUFACTURER.
- ALL GATE VALVES SHALL BE EQUIPPED WITH AN ADJUSTABLE CAST IRON VALVE BOX WITH COVER, WITH THREADED CAST BRONZE EXTENSIONS WHERE NEEDED.
- ALL PUBLIC WATER SYSTEM COMPONENTS, EXCLUDING FIRE HYDRANTS, THAT WILL BE INSTALLED UNDER THIS PROJECT AND THAT WILL COME INTO CONTACT WITH DRINKING WATER WILL CONFORM TO NSF INTERNATIONAL STANDARD 61 AND WILL BE MARKED WITH THE NSF SEAL OF APPROVAL.
- ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT SHALL BE COLOR CODED IN ACCORDANCE WITH SUB PARAGRAPH 62-555.320(21)(B)3, F.A.C. USING BLUE AS A PREDOMINANT COLOR. ALL DUCTILE IRON WATER MAINS SHALL BE MARKED WITH A CONTINUOUS STRIPE LOCATED WITHIN THE TOP 90 DEGREES OF THE PIPE. SAID STRIPE SHALL BE A MINIMUM 2 INCHES IN WIDTH AND SHALL BE BLUE IN COLOR. BACKFILL SHALL NOT BE PLACED FOR 30 MINUTES FOLLOWING PAINT APPLICATION. FOR PIPE WITH AN INTERNAL DIAMETER OF 24" OR GREATER, TAPE OR PAINT SHALL BE APPLIED IN CONTINUOUS LINES A LONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE.

- ALL NON-METALLIC WATER MAINS SHALL BE INSTALLED WITH A CONTINUOUS, INSULATED 10 GAUGE COPPER WIRE INSTALLED DIRECTLY ON TOP OF THE PIPE FOR LOCATION PURPOSES. SEE STANDARD DRAWINGS. IN ADDITION, ALL PVC WATER MAINS SHALL BE A SOLID BLUE COLOR. ALL LETTERING SHALL APPEAR LEGIBLY ON PIPE AND SHALL RUN THE ENTIRE LENGTH OF THE PIPE. LETTERING SHALL READ AS IS ACCEPTABLE FOR THE INTENDED USE.
- HYDROSTATIC TESTING AND THE DISINFECTION OF THE WATER DISTRIBUTION SYSTEM SHALL BE DONE IN ACCORDANCE WITH THE AWWA STANDARDS. HYDROSTATIC TESTING TO BE DONE IN ACCORDANCE WITH AWWA C-600 FOR DUCTILE IRON PIPE AND C-605 FOR PVC PIPE. DISINFECTING AND BACTERIOLOGICAL EVALUATION TO BE DONE IN ACCORDANCE WITH AWWA C-651 AND RULE 62-555.340 F.A.C.
- MARK SERVICES WITH 6" HIGH PIECE OF 2" X 4" PLANK PAINTED BLUE WITH LOT NUMBER CLEARLY MARKED AND A 'W' IMPRESSED IN THE CURB. IT IS THE INTENT THAT EVERY LOT IS CONSISTENT WITH A WATER SERVICE; THEREFORE IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL A WATER SERVICE TO EACH LOT.
- PIPE MATERIALS:  
 PVC - ALL PIPE, PIPE FITTINGS, PIPE JOINT PACKING AND JOINTING MATERIALS, VALVES, FIRE HYDRANTS, AND METERS INSTALLED UNDER THIS PROJECT SHALL CONFORM TO APPLICABLE AWWA STANDARDS AND SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C900, LATEST EDITION. PVC SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C900. THE PVC SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 P.S.I. AND SHALL HAVE A DIMENSION RATIO (DR) OF 18. PIPE SHALL BE THE SAME O.D. AS DUCTILE IRON PIPE.  
 PVC JOINT - SHALL BE IN ACCORDANCE WITH ASTM D3139.  
 DUCTILE IRON - SHALL CONFORM TO ANSI/AWWA C150/C151. A MINIMUM OF CLASS 50 PIPE SHALL BE SUPPLIED.  
 DUCTILE IRON JOINT - SHALL BE IN ACCORDANCE WITH ANSI A21.11 AND AWWA C111.  
 SERVICES - SHALL BE IN ACCORDANCE WITH AWWA C901/C800 STANDARDS FOR POLYETHYLENE TUBING, CLASS 160.
- WATER MAIN CONNECTION SHALL BE MADE UNDER THE SUPERVISION OF LOCAL GOVERNMENT. ALL VALVES SHALL BE OPERATED BY LOCAL GOVERNMENT PERSONNEL ONLY. WATER MAINS ARE TO BE DISINFECTED PER ANSI/AWWA C651-92 AND LOCAL GOVERNMENT STANDARDS
- VERTICAL SEPARATION BETWEEN UNDERGROUND POTABLE WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED WATER PIPELINES:  
 NEW OR RELOCATED, UNDERGROUND 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 SIX INCHES, AND PREFERABLY 12 INCHES, ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.  
 NEW OR RELOCATED, UNDERGROUND 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 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
- 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 CROSSING, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY-OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
- HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS:  
 NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE 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.  
 NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.  
 NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY TEN 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 FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.  
 NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.0065(2), F.S., AND RULE 64E-6.002, F.A.C.
- A MINIMUM OF 3 FEET OF COVER SHALL BE MAINTAINED OVER WATER MAINS, UNLESS OTHERWISE NOTED.
- ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT SHALL CONTAIN NO MORE 8.0% LEAD, AND ANY SOLDER OR FLUX USED IN THIS PROJECT SHALL CONTAIN NO MORE THAN 0.2% LEAD.
- NEW OR ALTERED DEAD-END WATER MAINS INCLUDED IN THIS PROJECT SHALL BE PROVIDED WITH A FIRE OR FLUSHING HYDRANT OR BLOW-OFF FOR FLUSHING PURPOSES.
- NEW OR ALTERED FIRE HYDRANT LEADS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 6" AND SHALL INCLUDE AN AUXILIARY VALVE.
- IF AGGRESSIVE SOIL CONDITIONS ARE FOUND DURING CONSTRUCTION, WATER MAINS SHALL BE PROTECTED THROUGH THE USE OF CORROSION RESISTANT MATERIALS, THROUGH ENCASEMENT OF THE WATER MAINS IN POLYETHYLENE, OR THROUGH PROVISION OF CATHODIC PROTECTION.
- A CONTINUOUS AND UNIFORM BEDDING WILL BE PROVIDED IN TRENCHES FOR UNDERGROUND PIPE INSTALLED UNDER THIS PROJECT; BACKFILL MATERIAL WILL BE TAMPED IN LAYERS AROUND UNDERGROUND PIPE INSTALLED UNDER THIS PROJECT AND TO A SUFFICIENT HEIGHT ABOVE THE PIPE TO ADEQUATELY SUPPORT AND PROTECT THE PIPE; AND UNSUITABLY SIZED STONES (AS DESCRIBED IN APPLICABLE AWWA STANDARDS OR MANUFACTURERS' RECOMMENDED INSTALLATION PROCEDURES) FOUND IN TRENCHES WILL BE REMOVED FOR A DEPTH OF A LEAST SIX INCHES BELOW THE BOTTOM OF UNDERGROUND PIPE INSTALLED UNDER

- THIS PROJECT.
- CONTRACTOR SHALL NOT ACTIVATE WATER SERVICE UNTIL THE FDEP HAS CLEARED THE SYSTEM FOR USE AND THE CLEARANCE LETTER HAS BEEN RECEIVED BY THE OWNER.
  - CONTRACTOR SHALL COORDINATE ALL UTILITIES SYSTEMS TEST SCHEDULING TO ALLOW ENGINEER'S ATTENDANCE PROVIDING MINIMUM NOTICE OF FIVE (5) WORKING DAYS. CONTRACTOR'S FAILURE TO PROPERLY NOTIFY ENGINEER MAY RESULT IN RETESTING AT ENGINEER'S OPTION AND AT CONTRACTOR'S EXPENSE.
  - ENGINEER RESERVES THE RIGHT TO WITHHOLD AUTHORIZATION OF PAYMENT FOR ANY PORTION OF THE UTILITIES PIPE WORK WHICH HAS NOT BEEN TESTED (OBSERVED BY ENGINEER) AND REPORTED TO CONFORM TO PROJECT SPECIFICATIONS.
  - SITE CONTRACTOR SHALL COORDINATE AND VERIFY ALL UTILITY SERVICES WITH FINAL ARCHITECTURAL DRAWINGS AND BUILDING CONTRACTOR.
  - CONTRACTOR SHALL VERIFY SIZE AND TYPE OF EXISTING MAIN PRIOR TO ORDERING TAPPING MATERIALS FOR THE INS.
  - CONCRETE CURBS SHALL BE CHISELED OR IMPRINTED TO SHOW LOCATIONS OF WATER AND SEWER SERVICE LINES/LATERALS. MARKING SHALL CONFORM WITH LOCAL STANDARDS. WHERE NO STANDARDS EXIST, USE "R" FOR RECLAIMED WATER, "W" FOR WATER, AND "S" FOR SANITARY.
  - FIRE HYDRANTS WHICH ARE GRAPHICALLY SHOWN ON OR NEAR LOT LINES AND NOT OTHERWISE LOCATED BY STATIONING OR DIMENSIONING SHALL BE CENTERED ON THE LOT LINE.
- THE UTILITY NOTES BELOW ARE PROVIDED AS MINIMUM REQUIREMENTS AND ARE NOT INTENDED TO SUPERCEDE LOCAL GOVERNMENT AND AGENCY REQUIREMENTS
- SANITARY SEWER NOTES:
- ALL MANHOLES SHALL HAVE A MINIMUM DIAMETER OF 48 INCHES AND A MINIMUM ACCESS DIAMETER OF 22 INCHES.
  - PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCES BETWEEN MANHOLE CENTERLINES.
  - ALL SANITARY SERVICE LATERALS SHALL BE 6 INCH DIAMETER PVC. LATERALS SHALL END WITH A CLEAN OUT AT RIGHT-OF-WAY LINE.
  - INVERTS OF SANITARY SERVICE LATERALS AT THEIR CONNECTION TO SANITARY MANHOLES SHALL BE NO MORE THAN ONE (1) FOOT ABOVE THE MANHOLE INVERT.
  - PRIOR TO PAVING, CONTRACTOR SHALL VERIFY THE AS-BUILT SANITARY SEWER PIPE SLOPES. MINIMUM SHALL BE IN ACCORDANCE WITH CITY OF MINNEOLA MINIMUM CRITERIA BUILT FOR 8" PVC SEWER LINE SLOPE WILL BE 0.40%, FOR 10" PVC WILL BE 0.28%, FOR 12" PVC WILL BE 0.22% AND FOR 15" PVC WILL BE 0.15%. ANY LINE NOT MEETING MINIMUM SLOPE WILL BE RELAID BY CONTRACTOR TO MEET THE MINIMUM SLOPE REQUIREMENT AT NO ADDITIONAL COST.
  - MARK LATERALS WITH 6" HIGH PIECE OF 2" X 4" PLANK PAINTED ORANGE W/ LOT NUMBER CLEARLY MARKED AND AN 'S' IMPRESSED IN THE CURB.
  - LEAKAGE TESTS ARE SPECIFIED REQUIRING THAT:  
  
 THE LEAKAGE EXFILTRATION OR INFILTRATION DOES NOT EXCEED 200 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION OF THE SYSTEM.  
  
 EXFILTRATION OR INFILTRATION TESTS BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET.  
  
 AIR TESTS, AS A MINIMUM, CONFORM TO THE TEST PROCEDURE DESCRIBED IN ASTM C-828 FOR CLAY PIPE, ASTM C924 FOR CONCRETE PIPE, ASTM F-1417 FOR PLASTIC PIPE, AND FOR OTHER MATERIALS APPROPRIATE TEST PROCEDURES. AIR TESTING, IF SPECIFIED FOR CONCRETE SEWER MANHOLES, CONFORMS TO THE TEST PROCEDURES DESCRIBED IN ASTM C-1244.
  - MANHOLE LIFT HOLES AND GRADE ADJUSTMENT RINGS BE SEALED WITH NON-SHRINKING MORTAR OR OTHER APPROPRIATE MATERIAL.
  - INLET AND OUTLET PIPES BE JOINED TO THE MANHOLE WITH A GASKETED FLEXIBLE WATER-TIGHT CONNECTION OR ANOTHER WATER-TIGHT CONNECTION ARRANGEMENT THAT ALLOWS DIFFERENTIAL SETTLEMENT OF THE PIPE AND MANHOLE WALL.
  - WATER-TIGHT MANHOLE COVERS BE USED WHEREVER THE MANHOLE TOPS MAY BE FLOODED BY STREET RUNOFF OF HIGH WATER.
  - MINIMUM SEPARATION BETWEEN POTABLE WATER LINES AND SANITARY HAZARDS (SANITARY SEWER, FORCE MAIN, STORM SEWER, REUSE WATER) SHALL BE MAINTAINED. A HORIZONTAL CLEARANCE OF TEN (10) FEET IN PARALLEL INSTALLATION AND 12 INCHES VERTICALLY AT CROSSINGS. SHALL A VERTICAL SEPARATION OF LESS THAN THAT STIPULATED BE REQUIRED, THE WATER LINE SHALL BE CONSTRUCTED OF 20 FEET OF PRESSURE TIGHT JOINT DUCTILE IRON PIPE. IF THE REQUIRED 10 FT. HORIZONTAL CLEARANCE CANNOT BE MAINTAINED, THE SEWER MAIN SHALL BE PLACED IN A D.I.P. SLEEVE OR ENCASED IN CONCRETE IN ACCORDANCE WITH FDEP SPECIFICATIONS.
  - PVC GRAVITY SEWER PIPE SHALL MEET ASTM D3034, SDR35.
  - ALL SANITARY SEWER PIPE SHALL BE COLORED GREEN.
  - FIBERGLASS LINE ALL MANHOLES WHICH RECEIVE DISCHARGE FROM A FORCEMAIN.
  - CONTRACTOR IS RESPONSIBLE FOR PROVIDING SERVICES AT EACH LOT. SERVICES SHALL HAVE 3' MIN. AND 4' MAX. COVER AT LOT CLEAN OUT.
  - ALL SANITARY MANHOLES AND WETWELLS SHALL BE CONCRETE ADMIXTURE XYPEX C-1000 RED.
  - ALL SANITARY MANHOLE AND WETWELL JOINTS SHALL BE SHRINK WRAPPED.

Consultant:

NO. DATE DESCRIPTIONS

SUBMISSIONS/REVISIONS

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1 12/16/2022 RESUBMIT TO CITY

0 08/02/2022 SUBMIT TO CITY

Project Name:

**CONDEV  
 HILLS OF  
 MINNEOLA PUD  
 - AREA 5, POD 19**

Jurisdiction:

**CITY OF MINNEOLA, FL**

Sheet Title:

**CONSTRUCTION  
 NOTES**

Sheet No.:

**C0.02**

Seal:

**RICARDO A. ORTIZ  
 P.E. NO. 0058129  
 December 15, 2022**

This item has been electronically signed and sealed by Ricardo A. Ortiz on the date adjacent to the seal using a SIA authentication code. Printed copies of this document are not considered signed and sealed and the SIA authentication code must be verified on any electronic copies.

**POULOS & BENNETT**

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**Approved by City Council**  
**3/7/23**

THE UTILITY NOTES BELOW ARE PROVIDED AS MINIMUM REQUIREMENTS AND ARE NOT INTENDED TO SUPERCEDE LOCAL GOVERNMENT AND AGENCY REQUIREMENTS

RECLAIMED WATER NOTES:

- 1. ALL RECLAIMED WATER PIPES SHALL BE INSTALLED USING WATER PIPE CRITERIA. MAINS SHALL BE CLASS 52 DIP IF 24"-30" OF COVER IS PROVIDED AND CLASS 51 IF 30"-36" COVER IS PROVIDED.
2. PROVIDE 6" MINIMUM SEPARATION BETWEEN RECLAIMED WATER AND STORM PIPES AND A MINIMUM OF 3' OF COVER OVER THE RECLAIMED WATER MAIN. RECLAIMED WATER WHEN LESS THAN 3' OF COVER IS ACHIEVED SHALL BE D.I.P. (COVER LESS THAN 3' IS ONLY ALLOWED AT SPECIFIC CROSSINGS APPROVED BY ENGINEER) PROVIDE MECHANICAL JOINTS AND FITTINGS AS NECESSARY FOR THE VERTICAL TRANSITIONS.
3. EXCEPT FOR PVC PIPE, MAXIMUM DEFLECTIONS AT PIPE JOINTS, FITTINGS AND LAYING RADIUS FOR THE VARIOUS PIPE LENGTHS SHALL NOT EXCEED 75% OF THE PIPE MANUFACTURER'S RECOMMENDATION. A MINIMUM VERTICAL CLEARANCE OF 18" SHALL BE MAINTAINED. WHERE 18" CLEARANCE IS NOT POSSIBLE, WATER AND RECLAIMED WATER WILL BE UPGRADED TO D.I.P.
4. MARK LATERALS WITH 6' HIGH PIECE OF 2" X 4" PLANK PAINTED PURPLE, AND AN R IMPRESSED IN THE CURB.
5. CASINGS WILL BE PROVIDED FOR SERVICES LOCATED UNDER LANDSCAPE MEDIANS.
6. ALL PVC RECLAIMED WATER PIPE SHALL BE AS SPECIFIED IN THE CONTRACT DOCUMENTS, MARKED WITH THE SEAL OF APPROVAL OF THE NATIONAL SANITATION FOUNDATION (NSF) AND BE PURPLE IN COLOR.
7. ALL DUCTILE IRON RECLAIMED WATER MAINS SHALL BE MARKED WITH A CONTINUOUS STRIPE LOCATED WITHIN THE TOP 90 DEGREES OF THE PIPE. SAID STRIPE SHALL BE A MINIMUM 2 INCHES IN WIDTH AND SHALL BE PURPLE IN COLOR. BACKFILL SHALL NOT BE PLACED FOR 30 MINUTES FOLLOWING PAINT APPLICATION.
8. ALL NON-METALLIC RECLAIMED WATER MAINS SHALL BE INSTALLED WITH A CONTINUOUS, INSULATED 10 GAUGE COPPER WIRE INSTALLED DIRECTLY ON TOP OF THE PIPE FOR LOCATION PURPOSES. SEE STANDARD DRAWINGS. IN ADDITION, ALL PVC RECLAIMED WATER MAINS SHALL BE SOLID, PANTONE PURPLE COLOR.
9. HYDROSTATIC TESTING OF THE RECLAIMED WATER DISTRIBUTION SYSTEM SHALL BE DONE IN ACCORDANCE WITH THE AWWA STANDARDS. HYDROSTATIC TESTING TO BE DONE IN ACCORDANCE WITH AWWA C-600 FOR DUCTILE IRON PIPE AND M23 FOR PVC PIPE.
10. ALL RECLAIMED WATER HOSE BIBBS, HAND-OPERATED CONNECTIONS AND OUTLETS SHALL BE CONTAINED IN UNDERGROUND SERVICE VAULTS AND SHALL BE APPROPRIATELY TAGGED OR LABELED TO WARN THE PUBLIC AND EMPLOYEES THAT THE WATER IS NOT INTENDED FOR DRINKING. ALL PIPING, PIPELINES, VALVES AND OUTLETS SHALL BE COLOR CODED PANTONE 522C PURPLE AND MARKED PER LOCAL AND STATE CODES TO DIFFERENTIATE RECLAIMED WATER FROM POTABLE OR OTHER WATER.
11. VAULTS FOR RECLAIMED WATER HOSE BIBBS AND OUTLETS SHALL BE LOCKED OR REQUIRE A SPECIAL TOOL FOR OPERATION OF HOSE BIBBS AND OUTLETS.
12. LOW TRAJECTORY NOZZLES ARE REQUIRED WITHIN 100 FEET OF ANY OUTDOOR PUBLIC EATING, DRINKING OR BATHING FACILITIES.
13. A RESIDENTIAL DUAL CHECK VALVE OR OTHER BACKFLOW PREVENTION DEVICE AS SPECIFIED BY THE SEWER/RECLAIMED WATER UTILITY COMPANY IS REQUIRED ON ALL POTABLE WATER LINES AT EACH RESIDENTIAL SITE WHICH IS SERVICED WITH RECLAIMED WATER.
14. SIGNS SHALL BE POSTED IN THE VICINITY OF PUBLIC RECLAIMED WATER RECLAIMED WATER IRRIGATION SYSTEMS, ADVISING THE PUBLIC THAT RECLAIMED WATER IS PRACTICED.
15. BOX COVERS FOR RECLAIMED WATER SYSTEM ELEMENTS (VALVES, METER, BFP'S, ETC.) SHALL TO THE EXTENT REASONABLE, NOT BE INTERCHANGEABLE WITH BOX COVERS FOR WATER SYSTEM ELEMENTS.
16. RECLAIMED WATER SYSTEMS AND POTABLE WATER SYSTEMS SHALL NOT BE CROSS-CONNECTED. AN AIR GAP OF TWO PIPE DIAMETERS IS REQUIRED BETWEEN SUCH WATERS.
17. THE WETTED EDGE OF AREAS IRRIGATION WITH RECLAIMED WATER SHALL NOT BE CLOSER THAN 75 FEET TO ANY PUBLIC OR PRIVATE POTABLE WATER WELL.
18. NO RECLAIMED WATER TRANSMISSION FACILITY/MAIN SHALL BE WITHIN 75 FEET OF ANY PUBLIC WATER SUPPLY WELL.

DEMOLITION NOTES:

- 1. CONTRACTOR SHALL REMOVE ALL WASTE MATERIAL FOR DISPOSAL OFF-SITE. DISPOSAL SHALL CONFORM TO ALL APPLICABLE REGULATIONS.
2. EXISTING UNDERGROUND UTILITIES, UNLESS OTHERWISE NOTED, MAY BE CAPPED/PLUGGED AND ABANDONED IN PLACE EXCEPT WITHIN 30 FT. OF BUILDING. CAPPED AND PLUGGED PIPE ENDS SHALL BE ENCASED IN CONCRETE, 6" MINIMUM THICKNESS AROUND PIPE. MANHOLE BASES MAY BE LEFT IN PLACE PROVIDED THAT PIPE OPENINGS ARE PLUGGED AND REMAINING BASES ARE FILLED WITH CONCRETE 6" MINIMUM ABOVE HIGHEST INVERT.
3. ANY MATERIALS CLAIMED AS SALVAGE BY OWNER EITHER IN THE FIELD OR IN THE DRAWINGS SHALL BE STOCKPILED FOR OWNER'S REMOVAL.
4. CONTRACTOR SHALL BE KNOWLEDGEABLE OF THE CONSTRUCTION DOCUMENTS AND BE RESPONSIBLE FOR PROTECTING ANY EXISTING FACILITY SO DESIGNATED OR DESIGNATED TO BE USED IN THE WORK.
5. CONTRACTOR SHALL REMOVE ALL FOUNDATIONS, CONCRETE SLABS, AND UNDERGROUND STRUCTURES EXISTING ON THE SITE AT THE TIME OF BIDDING UNLESS OTHERWISE DIRECTED.
6. CONTRACTOR SHALL COORDINATE WITH APPLICABLE UTILITY COMPANIES AND BE RESPONSIBLE FOR THE TERMINATION, CAPPING-OFF AND REMOVAL OF ALL UNDERGROUND AND ABOVE-GROUND UTILITY SERVICES EXISTING AT THE TIME OF BIDDING UNLESS DIRECTED TO BID OTHERWISE.
7. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND DISPOSING ALL WASTE MATERIALS CONSISTENT WITH ALL RULES AND REGULATIONS APPLICABLE TO THE SPECIFIC MATERIAL FOUND.

ADA NOTES:

- 1. THE CONTRACTOR SHALL INSTALL, AS PART OF THE INFRASTRUCTURE AND PRIOR TO CERTIFICATE OF COMPLETION, DROP CURBS, STRIPING AND ACCESSIBLE RAMPS AT ALL INTERSECTIONS OF SIDEWALK WITH THE PROPOSED PAVEMENT TO MEET STATE OF FLORIDA

ACCESSIBILITY CODE AND FEDERAL A.D.A. SPECIFICATIONS.

- 2. PAVEMENT GRADES OVER ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2% IN ANY DIRECTION EXCEPT AT RAMPS. (NOTE: RAMP LENGTHS MAY EXCEED 6 FEET.)
3. PROPOSED AND EXISTING SIDEWALKS SHALL BE RAMPED FLUSH WITH PAVEMENT. RAMPS SHALL NOT EXCEED SLOPES OF 12 HORIZONTAL TO 1 VERTICAL. (NOTE: RAMP LENGTHS REQUIRED MAY EXCEED 6 FT.)
4. WHERE SIDEWALK RAMPS CONNECT TO MIAMI CURB, THE SLOPE OF THE MIAMI CURB SHALL BE NO STEEPER THAN 12:1 TO CONFORM WITH FLORIDA/FEDERAL REGULATORY REQUIREMENTS. TWO FT. LONG CURB TRANSITIONS SHALL BE USED AT EACH SIDE OF THE RAMP.
5. WHERE RAMPS ARE POURED ADJACENT TO EXISTING MIAMI CURB, THE CURB SHALL BE REMOVED, FOR A DISTANCE EXTENDING TWO FT. BEYOND EACH END OF THE WALK AND RECONSTRUCTED.
6. SIDEWALK RAMPS SHALL INCLUDE DETECTABLE WARNINGS THAT ARE TEXTURED IN CONFORMANCE WITH FDOT STANDARDS EXCEPT WHERE LOCAL CODES DICTATE OTHERWISE. CONTRACTOR SHALL COORDINATE WITH LOCAL AUTHORITY FOR PRE-POUR INSPECTION PRIOR TO ANY SIDEWALK AND/OR RAMP CONCRETE POURS. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO ENSURE THAT ALL RAMP TEXTURED SURFACES AND SIDEWALK LONGITUDINAL AND CROSS SLOPES ARE IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL ADA AND FAIR HOUSING ACT STANDARDS.
7. CONTRACTOR SHALL COORDINATE WITH ENGINEER FOR PRE-POUR INSPECTION PRIOR TO ANY SIDEWALK AND/OR CURB RAMP CONCRETE POURS.
8. ALL MANHOLE, PULL BOX, UTILITY VAULT, VALVE, OR OTHER COVERS LOCATED WITHIN SIDEWALKS AND CROSSWALKS SHALL BE ADA COMPLIANT.

FIRE PROTECTION NOTES:

- 1. MAINS DESIGNATED AS FIRE PROTECTION SHALL BE INSTALLED BY A FLORIDA LICENSED FIRE PROTECTION CONTRACTOR AND REVIEWED FOR CONFORMANCE BY A LICENSED FIRE PROTECTION ENGINEER.
2. FIRE HYDRANTS SHALL BE INSTALLED AND IN SERVICE PRIOR TO THE ACCUMULATION OF COMBUSTIBLES.
3. IN INSTANCES WHERE THERE ARE NO FIRE HYDRANTS IN CLOSE PROXIMITY TO PROVIDE FIRE PROTECTION, PER THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA-1, 16.4.3.1.3, UNDERGROUND WATER MAINS AND HYDRANTS ARE REQUIRED TO BE PROVIDED SHALL BE INSTALLED, COMPLETED AND IN SERVICE PRIOR TO CONSTRUCTION WORK.
4. PER NFPA-1, 18.3.4.1, DURING CONSTRUCTION, CLEARANCES OF 7.5 FEET IN FRONT OF AND TO THE SIDES OF THE FIRE HYDRANT WITH A 4-FOOT CLEARANCE TO THE REAR MUST BE PROVIDED AND MAINTAINED AT ALL TIMES.

ADS HDPE GENERAL NOTES:

- 1. SHOULD CONSTRUCTION PLANS INDICATE ADS PIPE MAY BE USED, ENGINEER SHALL BE NOTIFIED OF SUCH BY CONTRACTOR PRIOR TO MATERIAL ORDERING. ENGINEER SHALL BE PROVIDED WITH SPECIFICATIONS AND INSTALLATION METHODS PRIOR TO INSTALLATION.
2. WHERE ADS PIPE IS USED AS AN ALTERNATE TO REINFORCED CONCRETE PIPE, CONTRACTOR SHALL SUBMIT BIDS TO ENGINEER IN WRITING FOR REVIEW AND APPROVAL OF MATERIAL COST SAVINGS TO OWNER.
3. ADS PIPE SHALL NOT BE USED IN AREAS OF HIGH GROUNDWATER UNLESS PROPER ADS APPROVED METHODS ARE USED TO MITIGATE FOR POTENTIAL FLOTATION AND ALIGNMENT SHIFTS. AN AUTHORIZED ADS REPRESENTATIVE SHALL INSPECT ALL SUCH AREAS.
4. PIPE SHALL MEET ALL GOVERNING LOCAL AUTHORITY REQUIREMENTS AS WELL AS THE FLORIDA DEPARTMENT OF TRANSPORTATION. CONTRACTOR SHALL PROVIDE WRITTEN PROOF OF ACCEPTANCE BY LOCAL GOVERNMENT FOR PIPE USE.
5. ADS PIPE PREVIOUSLY STORED IN OUTDOOR CONDITIONS SHALL BE DISCLOSED TO ENGINEER FOR THIRD PARTY REVIEW OF PIPE PRIOR TO ACCEPTANCE FOR USE.
6. ALL INSTALLED PIPE IS SUBJECT TO MANDREL TESTING PRIOR TO ACCEPTANCE.
7. IN MUNICIPALITIES WHERE ADS PIPE IS NOT ALLOWED IN THE PUBLIC RIGHTS-OF-WAY, THE CONTRACTOR MAY USE ADS PIPE IN PRIVATE, NON-PUBLIC AREAS WITH ENGINEER'S PERMISSION.
8. PIPE 4" TO 48" (WHERE DESIGNATED) SHALL BE ADS HDPE N-12 SMOOTH INTERIOR POLYETHYLENE PIPE. PIPE AND FITTINGS SHALL BE MADE OF VIRGIN PE COMPOUNDS WITH CONFORM WITH THE REQUIREMENTS OF CELL CLASS 324420C AND DEFINED AND DESCRIBED IN ASTM D3350.
9. THE HDPE FITTINGS SHALL NOT REDUCE OR IMPAIR THE OVERALL INTEGRITY OR FUNCTION OF THE PIPE LINE. FITTINGS MAY BE EITHER MOLDED OR FABRICATED. THE FITTINGS MAY BE INSTALLED BY VARIOUS METHODS, SUCH AS SNAP-ON, SCREW-ON, BELL & SPIGOT AND WRAP AROUND. COUPLINGS SHALL PROVIDE SUFFICIENT LONGITUDINAL STRENGTH TO PRESERVE PIPE ALIGNMENT AND PREVENT SEPARATION AT THE JOINTS. ONLY FITTINGS SUPPLIED OR RECOMMENDED BY THE PIPE MANUFACTURER SHALL BE USED. WHERE DESIGNATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER IN THE FIELD, A NEOPRENE OR RUBBER GASKET SHALL BE SUPPLIED.
10. PIPE SHALL BE INSTALLED BY A CONTRACTOR WHO HAS BEEN CERTIFIED BY ADS OR SHALL BE INSTRUCTED BY A CERTIFIED ADS REPRESENTATIVE TO DO SO.
11. A REPRESENTATIVE OF ADS SHALL INSPECT FROM TIME TO TIME THE INSTALLATION OF THE PIPE.
12. HP MANHOLE STRUCTURES WILL NOT BE ALLOWED FOR USE WITHOUT ENGINEERS PRE-AUTHORIZATION.
13. GENERAL SPECIFICATIONS: SCOPE THIS SPECIFICATION DESCRIBES 12- THROUGH 60-INCH (300 TO 1500 MM) ADS HP STORM PIPE FOR USE IN GRAVITY-FLOW STORM DRAINAGE APPLICATIONS. PIPE REQUIREMENTS: 12- THROUGH 30-INCH (300 TO 750 MM) PIPE SHALL HAVE A SMOOTH INTERIOR AND ANNULAR EXTERIOR CORRUGATIONS AND MEET OR EXCEED ASTM F2736 AND AASHTO M330 36- THROUGH 60-INCH (900 TO 1500 MM) PIPE SHALL HAVE A SMOOTH INTERIOR AND ANNULAR EXTERIOR CORRUGATIONS AND MEET OR EXCEED ASTM F2881 AND AASHTO M330 MANNING'S "N" VALUE FOR USE IN DESIGN SHALL BE 0.012

JOINT PERFORMANCE

PIPE SHALL BE JOINED WITH A GASKETED INTEGRAL BELL & SPIGOT JOINT MEETING THE REQUIREMENTS OF ASTM F2736 OR F2881, FOR THE RESPECTIVE DIAMETERS. 12- THROUGH 60-INCH (300 TO 1500 MM) SHALL BE WATERTIGHT ACCORDING TO THE REQUIREMENTS OF ASTM D3212. SPIGOTS SHALL HAVE GASKETS MEETING THE REQUIREMENTS OF ASTM F477. GASKET SHALL BE INSTALLED BY THE PIPE MANUFACTURER AND COVERED WITH A REMOVABLE, PROTECTIVE WRAP TO ENSURE THE GASKET IS FREE FROM DEBRIS. A JOINT LUBRICANT AVAILABLE FROM THE MANUFACTURER SHALL BE USED ON THE GASKET AND BELL DURING ASSEMBLY. 12- THROUGH 60-INCH (300 TO 1500 MM) DIAMETERS SHALL HAVE A REINFORCED BELL WITH A POLYMER COMPOSITE BAND INSTALLED BY THE MANUFACTURER.

FITTINGS

FITTINGS SHALL CONFORM TO ASTM F2736, ASTM F2881 AND AASHTO M330, FOR THE RESPECTIVE DIAMETERS. BELL & SPIGOT CONNECTIONS SHALL UTILIZE A SPUN-ON, WELDED OR INTEGRAL BELL AND SPIGOT WITH GASKETS MEETING ASTM F477. BELL & SPIGOT FITTINGS JOINT SHALL MEET THE WATERTIGHT JOINT PERFORMANCE REQUIREMENTS OF ASTM D3212. CORRUGATED COUPLINGS SHALL BE SPLIT COLLAR, ENGAGING AT LEAST 2 FULL CORRUGATIONS.

FIELD PIPE AND JOINT PERFORMANCE

TO ASSURE WATERTIGHTNESS, FIELD PERFORMANCE VERIFICATION MAY BE ACCOMPLISHED BY TESTING IN ACCORDANCE WITH ASTM F1417 OR ASTM F2487. APPROPRIATE SAFETY PRECAUTIONS MUST BE USED WHEN FIELD-TESTING ANY PIPE MATERIAL. CONTACT THE MANUFACTURER FOR RECOMMENDED LEAKAGE RATES.

MATERIAL PROPERTIES

POLYPROPYLENE COMPOUND FOR PIPE AND FITTING PRODUCTION SHALL BE IMPACT MODIFIED COPOLYMER MEETING THE MATERIAL REQUIREMENTS OF ASTM F2736, SECTION 4, ASTM F2881, SECTION 5 AND AASHTO M330, SECTION 6.1, FOR THE RESPECTIVE DIAMETERS.

14. INSTALLATION:

INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D3221 AND ADS RECOMMENDED INSTALLATION GUIDELINES, WITH THE EXCEPTION THAT MINIMUM COVER IN TRAFFIC AREAS FOR 12- THROUGH 48-INCH (300 TO 1200 MM) DIAMETERS SHALL BE ONE FOOT. (0.3 M) AND FOR 60-INCH (1500 MM) DIAMETERS, THE MINIMUM COVER SHALL BE 2 FT. (0.6 M) IN SINGLE RUN APPLICATIONS. BACKFILL FOR MINIMUM COVER SITUATIONS SHALL CONSIST OF CLASS 1, CLASS 2 (MINIMUM 90% SPD) OR CLASS 3 (MINIMUM 95%) MATERIAL. MAXIMUM FILL HEIGHTS DEPEND ON EMBEDMENT MATERIAL AND COMPACTION LEVEL; PLEASE REFER TO ADS TECHNICAL INFORMATION. CONTRACTOR TO CONTACT ADS FOR A COPY OF THE LATEST INSTALLATION GUIDELINES.

CONCRETE JOINT CONSTRUCTION NOTES:

JOINTS FOR CONCRETE SLABS WHERE NOT OTHERWISE PROVIDED

- 1. GENERAL -- A JOINTING PLAN SHALL BE PREPARED BY THE CONTRACTOR & APPROVED BY THE ENGINEER PRIOR TO PLACEMENT OF THE CONCRETE.

A. A SQUARE JOINTING PATTERN IS REQUIRED WHERE POSSIBLE. IF NECESSARY, RECTANGULAR PANELS CAN BE USED IF THE LONG DIMENSION IS MORE THAN 1.5 TIMES THE SHORT (e.g. 8' x 12'). JOINT SPACING SHALL NOT EXCEED 10 FEET IN A 4" SLAB, & 15 FEET IN A 6" SLAB.

B. ADJUST JOINTING LAYOUT OR LOCATIONS OF MANHOLES, CATCH BASINS, FOUNDATIONS & OTHER BUILT -- IN STRUCTURES SO THAT JOINTS WILL LINE UP WITH CORNERS OF THE STRUCTURE. JOINTS MAY BE ANGLED TO POINTS OF STRESS CONCENTRATION TO ALLOW ALIGNMENT WITH CORNERS OF STRUCTURES.

- 2. CONSTRUCTION/CONTROL JOINTS -- ANY LARGE AREA OF CONCRETE SHALL BE PAVED IN STRIPS OR LANES, EACH LANE SEPARATED BY A KEYED CONSTRUCTION/CONTROL JOINT. ALL PAVING LANES SHALL BE SUBDIVIDED BY LATERAL KEYED JOINTS RUNNING CONTINUOUSLY PERPENDICULAR TO PAVING STRIPS SPACED TO ALLOW SQUARE PAVEMENT SEGMENTS. CONSTRUCTION/CONTROL JOINTS MUST PROVIDE LOAD TRANSFER WITH KEYED JOINTS & STEEL REINFORCING DOWELS CONTINUING INTO ADJOINING SLABS.

A. CONSTRUCTION/CONTROL JOINTS MAY BE HAND TOOLED WITH MAX. 0.25 INCH RADIUS.

- 3. CONTROL JOINTS -- CONTROL JOINTS ARE SET IN THE CONCRETE SLABS TO PRE-- ESTABLISH THE LOCATION OF CRACKS CAUSED BY DRYING, SHRINKAGE, OR THERMAL CHANGE. A CONSTRUCTION JOINT AS DESCRIBED IN NOTE 2. ABOVE IS BY DEFINITION ALSO A CONTROL JOINT. CONTROL JOINTS AS DESCRIBED BELOW MAY BE USED TO REPLACE KEYED CONSTRUCTION JOINTS FOR LATERAL JOINTS PERPENDICULAR TO PAVING LANES IF APPROVED IN WRITING BY THE ENGINEER.

A. DEPTH OF CONTROL JOINT SHALL BE ONE - FOURTH OF THE TOTAL SLAB THICKNESS (e.g. 1.5" FOR 6" SLAB).

B. CONTROL JOINTS SHALL BE FORMED BY HAND WITH 0.25 INCH RADIUS TOOL OR IF APPROVED BY ENGINEER, FORMED BY SAWING. SAWING OF JOINTS SHALL BEGIN AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PERMIT SAWING WITHOUT RAVELING.

- 4. ISOLATION JOINTS -- THESE JOINTS ARE USED TO ISOLATE BUILDING FOUNDATIONS, SIDEWALKS, DRAINS, LIGHT & SIGN BASES, & RETAINING WALLS LEAVING THE SLABS FREE TO MOVE HORIZONTALLY & VERTICALLY. THESE JOINTS SHALL EXTEND THE FULL DEPTH OF THE SLAB & SHALL NOT ALLOW ANY LOAD TRANSFER ACROSS THE JOINT.

A. ISOLATION JOINTS BETWEEN SLABS AT SOME GRADE SHALL BE FORMED WITH 0.25 INCH THICK NEOPRENE OR 0.50 INCH THICK ASPHALT IMPREGNATED FIBER FILLER WITH HYDROCARBON RESISTANT ELASTOMERIC FILL MATERIAL AS SEALER. ALL EDGES TO BE HAND TOOLED WITH MAXIMUM 0.50 INCH RADIUS.

HORIZONTAL GEOMETRY NOTES:

- 1. THE BUILDING TIES GIVEN ARE FOR CONVENIENCE. REFER TO ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS. BUILDING TIES ARE SHOWN TO THE OUTSIDE FACE OF THE BUILDING.
2. CONTRACTOR SHALL STAKE ALL IMPROVEMENTS USING THE ROAD CENTERLINE GEOMETRY AND BUILDING COORDINATES PROVIDED IN THESE PLANS. CONTRACTOR SHALL CONFIRM WITH THE ENGINEER THAT THE BUILDING IS CURRENT PRIOR TO CONSTRUCTION. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COMPLETELY STAKE AND CHECK ALL IMPROVEMENTS TO ENSURE ADEQUATE POSITIONING, BOTH HORIZONTAL AND VERTICAL PRIOR TO THE INSTALLATION OF ANY IMPROVEMENT.
3. BUILDING GEOMETRY AND LOCATIONS BASED ON THE FOLLOWING: ARCHITECT: FARMER ARCHITECTURE DRAWINGS:
4. CONTRACTOR SHALL VERIFY THE ACCURACY OF THE BUILDING GEOMETRY SHOWN WITH THAT IN THE FINAL ARCHITECTURAL DRAWINGS, PRIOR TO STAKE-OUT, AND SHALL NOTIFY OWNER AND ENGINEER IMMEDIATELY OF ANY DIFFERENCES.
5. ALL PARKING DIMENSIONS SHOWN ARE TO FACE OF CURB.
6. LOCATIONS OF SANITARY AND DRAINAGE STRUCTURES ARE GIVEN AT THE CENTER OF THE

BOTTOM OF THE STRUCTURE.

- 7. ALL STORM PIPE LENGTHS ARE TO BE MEASURED TO CENTER OF DRAINAGE STRUCTURE OR TO THE END OF MITERED END SECTIONS.

SIGNAGE AND MARKING NOTES:

- 1. ALL SIGNAGE, PAVEMENT MARKING AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH FHWA "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", LATEST EDITION.
2. ALL MARKINGS AND STRIPING ARE TO BE FDOT PAINT (UNLESS OTHERWISE SPECIFIED ON THE PLANS) AND SLIP RESISTANT AND SHALL BE APPLIED WITH MECHANICAL EQUIPMENT AND TEMPLATES AT THE LOCATIONS AND LENGTHS SHOWN ON THE PLANS (TWO COATS ALL LOCATION). COLOR SHALL BE WHITE, UNLESS OTHERWISE SPECIFIED, AND SHALL MEET ALL APPLICABLE REQUIREMENTS.
3. ALL ACCESSIBLE PARKING SPACES SHALL BE DESIGNATED BY APPROPRIATE PAVEMENT MARKINGS AND SIGN.
4. BLUE REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED OPPOSITE FIRE HYDRANTS IN THE CENTER OF THE NEAREST TRAVEL LANE TO MARK THEIR LOCATIONS.
5. REGULATORY SIGNS (STOP, ETC.) SHALL BE IN PLACE PRIOR TO FINAL INSPECTION OF PAVING IMPROVEMENTS.

Consultant:

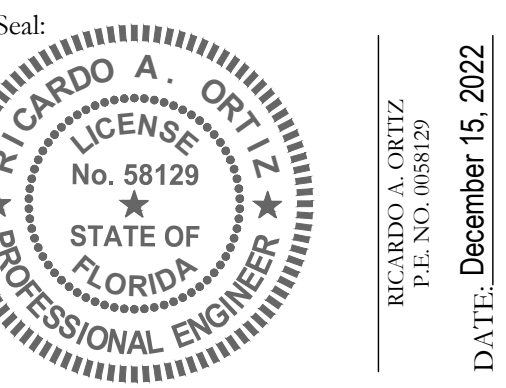
Table with columns: NO., DATE, DESCRIPTIONS, SUBMISSIONS/REVISIONS. Includes rows for 12/16/2022 RESUBMIT TO CITY and 08/02/2022 SUBMIT TO CITY. Also includes a table for VERTICAL DATUM, NAVD 88, JOB NO., 20-125, DESIGNED BY: RAE, DRAWN BY: RAE, CHECKED BY: RAO, APPROVED BY: RLB, SCALE IN FEET: N/A.

Project Name: CONDEV HILLS OF MINNEOLA PUD - AREA 5, POD 19

Jurisdiction: CITY OF MINNEOLA, FL

Sheet Title: CONSTRUCTION NOTES

Sheet No.: C0.03



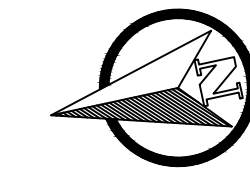
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Approved by City Council 3/7/23

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3/7/23

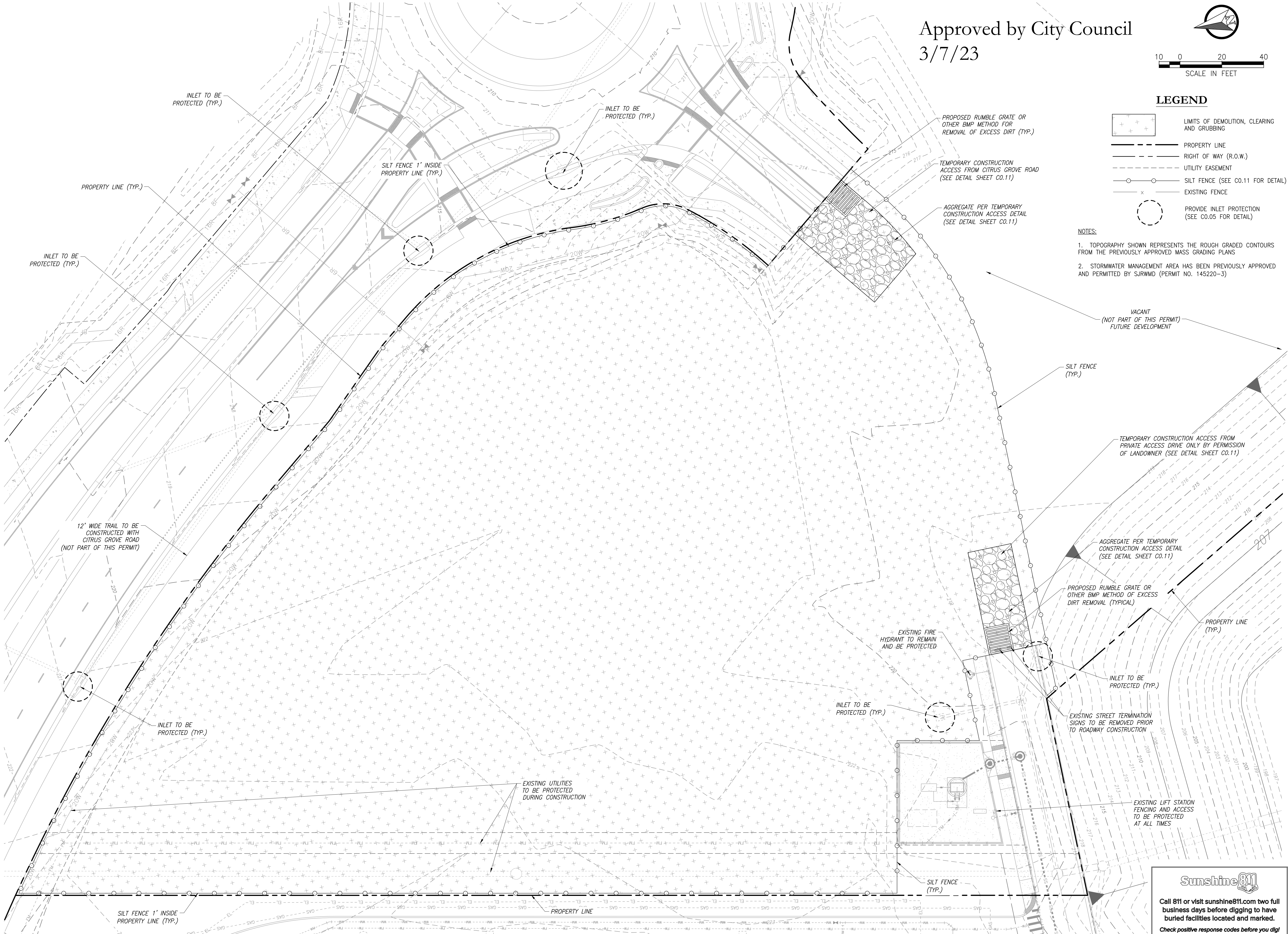


**LEGEND**

- LIMITS OF DEMOLITION, CLEARING AND GRUBBING
- PROPERTY LINE
- RIGHT OF WAY (R.O.W.)
- UTILITY EASEMENT
- SILT FENCE (SEE CO.11 FOR DETAIL)
- EXISTING FENCE
- PROVIDE INLET PROTECTION (SEE CO.05 FOR DETAIL)

**NOTES:**

1. TOPOGRAPHY SHOWN REPRESENTS THE ROUGH GRADED CONTOURS FROM THE PREVIOUSLY APPROVED MASS GRADING PLANS
2. STORMWATER MANAGEMENT AREA HAS BEEN PREVIOUSLY APPROVED AND PERMITTED BY SJRWMD (PERMIT NO. 145220-3)



Consultant:

1	12/16/2022	RESUBMIT TO CITY
0	08/02/2022	SUBMIT TO CITY
NO.	DATE	DESCRIPTIONS
SUBMISSIONS/REVISIONS		
VERTICAL DATUM	NAVD 88	
JOB NO.	20-125	
DESIGNED BY:	RAE	
DRAWN BY:	RAE	
CHECKED BY:	RAO	
APPROVED BY:	RLB	
SCALE IN FEET:	1" = 20'	

Project Name:  
**CONDEV  
 HILLS OF  
 MINNEOLA PUD  
 - AREA 5, POD 19**

Jurisdiction:  
 CITY OF MINNEOLA, FL

Sheet Title:  
**EROSION CONTROL &  
 DEMOLITION PLAN**

Sheet No.:  
**CO.10**

Seal:  
  
 RICARDO A. ORTIZ  
 P.E. NO. 0058129  
 DATE: December 15, 2022

This item has been electronically signed and sealed by Ricardo A. Ortiz on the date adjacent to the seal using a SIA authentication code. Printed copies of this document are not considered signed and sealed and the SIA authentication code must be verified on any electronic copies.

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 Check positive response codes before you dig!

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**EROSION CONTROL NOTES:**

- DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO ENSURE AGAINST POLLUTING, SILTING OR DISTURBING TO SUCH AN EXTENT AS TO CAUSE AN INCREASE IN TURBIDITY TO THE EXISTING SURFACE WATERS. SUCH MEASURES SHALL BE APPROVED BY THE PROJECT ENGINEER AND MAY INCLUDE, BUT NOT LIMITED TO, CONSTRUCTION OF TEMPORARY EROSION CONTROL STRUCTURES, SUCH AS SEDIMENT BASINS, SEDIMENT CHECKS, OR SILT BARRIERS.
- IF DURING CONSTRUCTION, THE PROPOSED EROSION CONTROL SYSTEM DOES NOT PERFORM SATISFACTORILY, ALTERNATIVES AND ADDITIONAL METHODS OF PROTECTION SHALL BE IMPLEMENTED BY THE CONTRACTOR IN ORDER TO COMPLY WITH S.J.R.W.M.D., AND CITY OF MINNEOLA EROSION PROTECTION STANDARDS. CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR ALL EROSION CONTROL COSTS INCLUDING ANY COSTS ASSOCIATED WITH COMPLIANCE ISSUES AND ENFORCEMENT ACTIONS.
- THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT A DETAILED EROSION CONTROL PLAN TO CITY OF MINNEOLA FOR REVIEW AND APPROVAL A MINIMUM OF TWO WORKING DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING. AT A MINIMUM, THE EROSION CONTROL PLAN SHALL PROPOSE SILT SCREEN AND TURBIDITY BARRIERS, IN ACCORDANCE WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS.
- ALL PERMANENT EROSION CONTROL MEASURES SHALL BE COMPLETED WITHIN 7 DAYS OF FINAL GRADING. ALL TEMPORARY EROSION CONTROL SHALL BE MAINTAINED UNTIL PERMANENT MEASURES ARE COMPLETED AND ESTABLISHED.
- ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH NPDES REQUIREMENTS.
- CONTRACTOR SHALL RETAIN COPIES OF DATA USED TO COMPLETE THE NOTICE OF INTENT TO CONSTRUCT (NOI), THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP), AND ALL REPORTS REQUIRED BY THE GENERIC PERMIT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED. SUCH REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.
- CONTRACTOR AND SUBCONTRACTOR(S) IDENTIFIED IN THE SWPPP SHALL SIGN THE CERTIFICATION STATEMENT CONTAINED IN PART V.E.2 OF THE GENERIC PERMIT BEFORE CONDUCTING ANY WORK IDENTIFIED IN THE SWPPP.
- CONTRACTOR SHALL MAINTAIN A COPY OF THE SWPPP AT THE SITE FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.
- CONTRACTOR SHALL AMEND THE SWPPP WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION OR MAINTENANCE THAT MAY HAVE A SIGNIFICANT EFFECT ON THE POTENTIAL FOR OFF-SITE DISCHARGE OF POLLUTANTS, INCLUDING THE ADDITION OF OR CHANGE IN LOCATION OF DISCHARGE POINTS AND REVISION TO CONTROLS WHICH MAY HAVE PROVED TO BE INEFFECTIVE.
- AMENDMENTS TO THE SWPPP SHALL INCLUDE IDENTIFYING ANY NEW CONTRACTOR AND/OR SUBCONTRACTOR THAT WILL IMPLEMENT A POLLUTION PREVENTION MEASURE.
- AMENDMENTS TO THE SWPPP SHALL BE PREPARED, DATED AND KEPT AS ATTACHMENTS TO THE ORIGINAL PLAN.
- THE SWPPP SHALL BE AMENDED TO REFLECT ANY CHANGE APPLICABLE TO PROTECTING SURFACE WATER RESOURCES IN SITE PERMITS APPROVED BY STATE, REGIONAL OR LOCAL OFFICIALS FOR WHICH CONTRACTOR RECEIVES WRITTEN NOTICE AND CONTRACTOR SHALL RE-CERTIFY SUCH CHANGES RELATED TO SUCH WRITTEN NOTICE.
- CONTRACTOR SHALL REMAIN RESPONSIBLE FOR OPERATION AND MAINTENANCE OF POLLUTION PROTECTION MEASURES UNTIL CONSTRUCTION HAS BEEN COMPLETED IN SUBSTANTIAL CONFORMANCE WITH THE CONTRACT PLANS AND CERTIFIED AS SUCH BY POULOS & BENNETT, WHETHER OR NOT CONTRACTOR HAS SUBMITTED A NOTICE OF TERMINATION (NOT) TO FDEP.
- THE SCHEDULING, SEQUENCING AND CONTROL MEASURES, WHICH ARE OUTLINED HEREIN, ARE SUBJECT TO FINAL DEFINITION BY THE CONTRACTOR WHO WILL BE RESPONSIBLE FOR IMPLEMENTATION AND COMPLIANCE.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT A CONSTRUCTION SCHEDULE DEPICTING EACH PHASE OF THE WORK. THE CONTRACTOR SHALL ALSO BE REQUIRED TO SUBMIT AN EROSION AND SEDIMENT CONTROL PLAN TO THE OWNER, THE ENGINEER AND THE CITY OF MINNEOLA ENCOMPASSING THE CONTRACTOR'S EXACT PLAN OF IMPLEMENTING THE PRINCIPLES AND THE REQUIREMENTS DESCRIBED HEREIN. NO CONSTRUCTION CAN BEGIN UNTIL SAID PLAN HAS BEEN APPROVED BY THE CITY OF MINNEOLA.
- THROUGHOUT THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL DAILY INSPECT PROTECTIVE INSTALLATIONS FOR FAILURES OR SIGNS OF FAILURE OR MALFUNCTION AND EFFECT REPAIRS OR REPLACEMENT IMMEDIATELY UPON DISCOVERY.
- THE RECOMMENDED GENERAL SEQUENCE OF CONSTRUCTION FOR ALL BASINS IS AS FOLLOWS:
  - 17.1. PLACEMENT OF PERIMETER PROTECTIVE MEASURES (SILT FENCE, SYNTHETIC HAY BALES, ETC.,) AROUND ONSITE, LAKES, AT POINTS OF OFFSITE DISCHARGE, AND AROUND WORK AREAS.
  - 17.2. REROUTE RUNOFF FROM AREAS OUTSIDE OF THE DEVELOPMENT AREA TO MINIMIZE FLOW THROUGH AREAS TO BE DISTRIBUTED BY CONSTRUCTION, BERMS, SWALES AND OTHER MEANS USED FOR SUCH CONVEYANCE SHALL BE VEGETATED AND MEASURES TAKEN TO PROVIDE PROTECTION UNTIL STABILIZATION HAS BEEN ESTABLISHED.
  - 17.3. SELECT LOCATIONS FOR PLACEMENT OF MATERIAL, WHETHER SUITABLE FOR FILL OR UNSUITABLE, AND CONSTRUCT CONTAINMENT BERMS AROUND THE AREA. THE USE OF STRIPPINGS FOR THIS PURPOSE MAY ACCELERATE BERM REVEGETATION. CONSTRUCT TEMPORARY OUTLETS FROM CONTAINMENT AREAS WITH SCREENS, HAY BALES, SETTLING BASINS OR OTHER MEASURES TO PREVENT SILT TRANSPORTATION.
  - 17.4. SELECT/ DESIGNATE ACCESS ROUTING FOR CONSTRUCTION EQUIPMENT AND VEHICLES AND PROVIDE PERIMETER PROTECTIVE MEASURES WHERE EXISTING TERRAIN WILL BE SUBJECT TO DISRUPTION BY SUCH TRAFFIC.
  - 17.5. IF REQUIRED, CONSTRUCT ABOVE GROUND OR OTHER CONTAINMENT AREAS FOR CONSTRUCTION AREA RUNOFF. PROVIDE SCREENS, SYNTHETIC HAY BALES ETC., TO FILTER DISCHARGE THESE AREAS.
  - 17.6. GRASSING, SODDING, ETC. SHALL BE IN PLACE IMMEDIATELY UPON COMPLETION OF WORK IN DISTURBED AREAS WITHIN PROJECT AREA.
  - 17.7. IN ANY EVENT, CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING ANY AND ALL MEASURES ARE TAKEN TO COMPLY WITH LOCAL, STATE, FEDERAL AND OWNER REQUIREMENTS FOR EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION.
- BAHIA SOD OR OTHER STABILIZATION IS REQUIRED AROUND ALL STORM INLETS IN UNPAVED AREAS.
- THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY HAS AUTHORIZED THE STATE OF FLORIDA TO ADMINISTER THE NATIONAL POLLUTANTS DISCHARGE ELIMINATION SYSTEM (N.P.D.E.S.). CONTRACTOR IS ADVISED THAT OPERATORS ARE REQUIRED TO FILE WITH F.D.E.P., A NOTICE OF INTENT TO USE THE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES THAT DISTURB ONE OR MORE ACRES OF LAND. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO SUBMIT THE NOTICE OF INTENT (N.O.I.) TO F.D.E.P. WITH A COPY TO THE OWNER, THE ENGINEER AND THE CITY AT LEAST 48 HOURS BEFORE INITIATING CONSTRUCTION.
- AS REQUIRED BY THE GENERIC PERMIT, CONTRACTOR SHALL PREPARE A STORMWATER POLLUTION PREVENTION PLAN (S.W.P.P.P.) PURSUANT TO ALL REQUIREMENTS OF THE GENERIC PERMIT.
- PURSUANT TO THE N.P.D.E.S., CONTRACTOR SHALL MAINTAIN RECORDS OF DATES WHEN MAJOR GRADING ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE AND SHALL INITIATE STABILIZATION MEASURES WITHIN 14 DAYS AFTER SUCH TEMPORARY OR PERMANENT CESSATION OF CONSTRUCTION ACTIVITY. STABILIZATION REQUIREMENTS (SODDING WHERE SHOWN ON THE PLANS, SEEDING AND MULCHING ELSEWHERE) APPLY TO ALL AREAS DISTURBED BY CONSTRUCTION, ON-SITE AND OFF-SITE.
- CONTRACTOR SHALL PROVIDE INSPECTIONS BY QUALIFIED PERSONNEL OF ALL POINTS OF

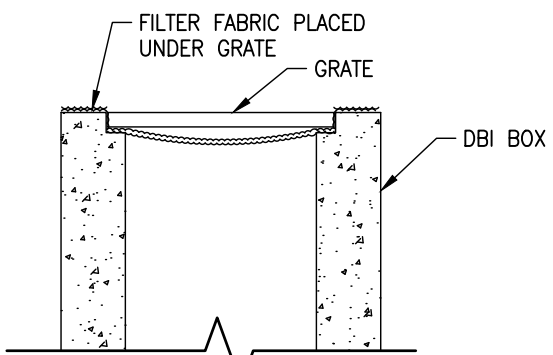
DISCHARGE, DISTURBED AREAS NOT YET FINALLY STABILIZED, STORAGE AREAS EXPOSED TO RAINFALL, STRUCTURAL CONTROLS VEHICULAR ACCESS LOCATIONS, AND PROVIDE INSPECTION TO DETERMINE THE EFFECTIVENESS OF EROSION/SEDIMENT CONTROL EFFORTS. INSPECTIONS SHALL CONDUCTED DAILY AND WITHIN 24 HOUR AFTER EACH 0.50 INCH OR GREATER RAINFALL EVENT AND ANY NECESSARY REMEDIES SHALL BE PERFORMED IMMEDIATELY.

**DUST CONTROL PROVISIONS**

- CONTRACTOR SHALL PRE-WATER THE SITE AND ALL WORK WILL BE PHASED TO REDUCED THE AMOUNT OF DISTURBED SURFACE AREA AT ANY ONE TIME ACTIVE OPERATIONS.
  - 1.1. WATER TO BE APPLIED TO DRY AREAS DURING LEVELING, GRADING, TRENCHING, AND EARTHMOVING ACTIVITIES.
  - 1.2. WATER TO BE APPLIED ON DISTURBED SURFACE AREAS TO FORM A VISIBLE CRUST.
  - 1.3. VEHICULAR ACCESS TO BE RESTRICTED AND WATER OR DUST SUPPRESSANTS TO BE APPLIED AND MAINTAINED AT ALL UN-VEGETATED AREAS.
- CONTRACTOR SHALL PREVENT DUST FROM WIND EVENTS.
  - 2.1. WATER TO BE APPLIED TO VEHICULAR TRAFFIC AND EQUIPMENT STORAGE AREAS.
  - 2.2. WATER APPLICATION EQUIPMENT WILL APPLY WATER TO CONTROL FUGITIVE DUST DURING WIND EVENTS, UNLESS UNSAFE TO DO SO.
  - 2.3. OUTDOOR CONSTRUCTION ACTIVITIES THAT DISTURB THE SOIL TO BE CEASE WHENEVER VISIBLE DUST EMISSIONS CANNOT BE EFFECTIVELY CONTROLLED.
- CONTRACTOR SHALL HANDLE BULK MATERIAL.
  - 3.1. WATER TO BE APPLIED WHEN HANDLING BULK MATERIALS.
  - 3.2. WATER TO BE APPLIED TO STORAGE PILES.
  - 3.3. VEHICLE SPEED TO BE LIMITED ON THE WORK SITE.
  - 3.4. ALL HAUL TRUCKS TO BE LOADED SUCH THAT THE FREEBOARD IS NOT LESS THAN SIX INCHES WHEN TRANSPORT USING A CHUTE OR CONVEYOR.
- CONTRACTOR SHALL DO DAILY CLEANUPS:
  - 4.1. MINIMUM CLEANUP FREQUENCY TO BE DONE AT THE END OF THE WORK DAY AND REMOVED IMMEDIATELY IF CARRYOUT AND TRACK OUT EXTENDS BEYOND 50 FEET.
  - 4.2. CLEAN UP METHODS:
    - 4.2.1. MANUALLY SWEEPING AND PICKING UP.
    - 4.2.2. MECHANICAL SWEEPING WITH A ROTARY BRUSH OR BROOM ACCOMPANIED BY WATER SPRAYER ON BROOM.

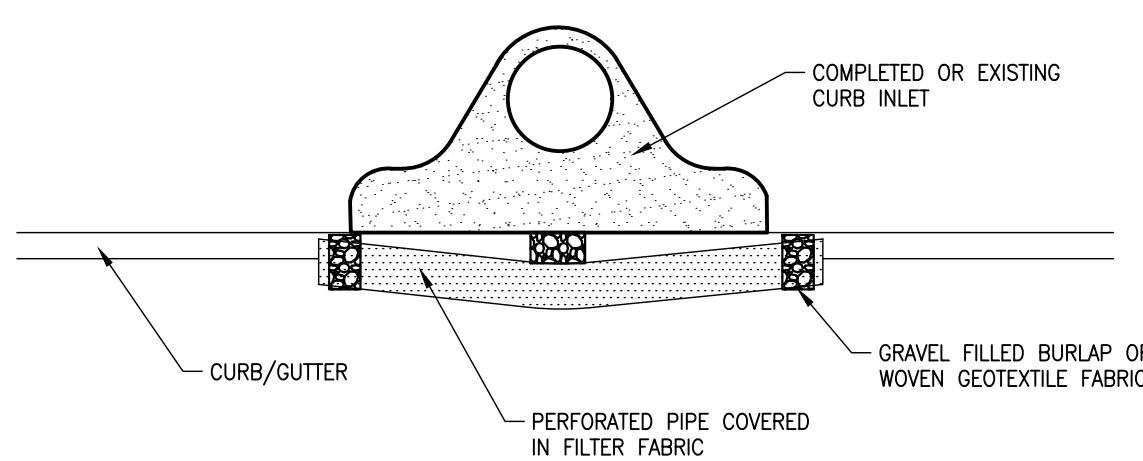
**SWPPP NOTES**

- CONSTRUCTION ACTIVITY PERTAINS TO CONSTRUCTION OF A PERSONAL STORAGE BUILDING AT LATITUDE 28°35'29.79"N & LONGITUDE 81°43'09.74"W.
- EXISTING ON-SITE SOILS CONSIST OF NO. 8, 'CANDLER FINE SAND', 0 TO 5 % SLOPES; AND NO. 9, 'CANDLER FINE SAND', 5 TO 12 % SLOPES PER WEB SOIL SURVEY, LAKE COUNTY, FLORIDA, BY THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE WITH ESTIMATED NORMAL SEASONAL HIGH GROUNDWATER LEVEL TO BE ENCOUNTERED AT DEPTHS GREATER THAN 6 1/2 FEET BELOW THE EXISTING GROUND SURFACE PER GEOTECHNICAL REPORT BY UNIVERSAL ENGINEERING SCIENCES, REPORT NO. 1829064, JANUARY 7, 2021.
- ALL PROPOSED INLETS/OUTFALLS, ONCE INSTALLED, SHALL BE PROTECTED FROM EROSION AND SEDIMENT RUNOFF USING PROPERLY INSTALLED FILTER FABRICS. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED SHALL BE STABILIZED WITH SOD. SILT FENCE SHALL BE INSTALLED AROUND PERIMETER OF THE SITE. A DOUBLE ROW OF SILT FENCE, REINFORCED WITH FIELD FENCING, SHALL BE PLACED AROUND VEGETATIVE BUFFERS AND WETLAND AREAS. ALL AREAS DISTURBED MORE THAN 7 DAYS SHALL BE STABILIZED WITH RYE GRASS OR OTHER APPROPRIATE TEMPORARY VEGETATION APPLIED AT MANUFACTURER'S RECOMMENDATION.
- THE TEMPORARY AND PERMANENT STABILIZATION PRACTICES INCLUDE SODDING ALL DISTURBED AREAS FOR STABILIZATION.
- SILT FENCE AND INLET/OUTLET PROTECTION SHALL BE INSTALLED PER BEST MANAGEMENT PRACTICES, SEE SECTION 8.
- CONTROL DETAILS OF POTENTIAL POLLUTANTS AS FOLLOWS:
  - 6.1. WASTE DISPOSAL - ALL CONSTRUCTION MATERIALS AND DEBRIS WILL BE PLACED IN DUMPSTER AND HAULLED OFF SITE TO A LANDFILL OR OTHER DISPOSAL SITE. NO MATERIALS SHALL BE BURIED ON SITE.
  - 6.2. PROPER APPLICATION RATES OF ALL FERTILIZERS, HERBICIDES AND PESTICIDES AT CONSTRUCTION SITE - FLORIDA FRIENDLY FERTILIZERS AND PESTICIDES WILL BE USED AT A MINIMUM AND IN ACCORDANCE WITH MANUFACTURER'S SUGGESTED APPLICATION RATES. THE FERTILIZERS AND PESTICIDES WILL BE STORED IN A COVERED SHED.
  - 6.3. STORAGE, APPLICATION, GENERATION AND MIGRATION OF ALL TOXIC SUBSTANCES - ALL PAINTS AND OTHER CHEMICALS WILL BE STORED IN A LOCKED COVERED SHED.
  - 6.3. OTHER - PORT-O-LETS WILL BE PLACED AWAY FROM STORM SEWER SYSTEMS, STORM INLETS, SURFACE WATER AND WETLANDS. NO VEHICLE MAINTENANCE SHALL BE CONDUCTED ON-SITE. A WASHDOWN AREA SHALL BE DESIGNATED AT ALL TIMES AND WILL NOT BE LOCATED IN ANY AREA ALLOWING FOR DISCHARGE OF POLLUTED RUNOFF. A SMALL VEGETATED BERM SHALL BE PLACED AROUND THE WASHDOWN AREA.
- MAINTENANCE FOR ALL STRUCTURAL AND NON-STRUCTURAL CONTROLS SHALL BE AS FOLLOWS:
  - 7.1. SILT FENCE SHALL BE INSPECTED AT LEAST WEEKLY. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
  - 7.2. MAINTENANCE SHALL BE PERFORMED ON THE ROCK ENTRANCE WHEN ANY VOID SPACES ARE FULL OF SEDIMENTS.
  - 7.3. INLETS/OUTLETS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAIN EVENT AND ANY REQUIRED REPAIRS TO THE FILTER FABRIC ON INLETS AND SILT FENCE SHALL BE PERFORMED IMMEDIATELY.
  - 7.4. BARE AREAS OF THE SITE THAT WERE PREVIOUSLY SEEDED SHALL BE RE-SEEDED PER MANUFACTURER'S INSTRUCTIONS.
  - 7.5. MULCH AND SOD THAT HAS BEEN WASHED OUT SHALL BE REPLACED IMMEDIATELY.
  - 7.6. MAINTAIN ALL OTHER AREAS OF THE SITE WITH PROPER CONTROLS AS NECESSARY.
- QUALIFIED PERSONNEL WILL INSPECT ALL POINTS OF DISCHARGES, ALL DISTURBED AREAS OF CONSTRUCTION NOT STABILIZED, CONSTRUCTION AREAS, INGRESS/EGRESS AND ALL BMPs DAILY AND WITHIN 24 HOURS OF A RAINFALL EVENT THAT IS 0.5 INCHES OR GREATER. WHERE SITES HAVE BEEN FINALLY STABILIZED, SAID INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE A MONTH UNTIL NOTICE OF TERMINATION IS FILED.
- NON-STORMWATER DISCHARGES MAY OCCUR FROM CONSTRUCTION ACTIVITIES SUCH AS WATERLINE FLUSHING, PAVEMENT WASH WATER (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED) AND UNCONTAMINATED GROUNDWATER (DEWATERING EXCAVATION). DEWATERING SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE DEP GENERIC PERMIT FOR THE DISCHARGE OF PRODUCED GROUND WATER FROM ANY NON-CONTAMINATED SITE ACTIVITY. IF SAID DISCHARGES DO OCCUR, THEY WILL BE DIRECTED TO THE TEMPORARY SEDIMENT BASIN PRIOR TO DISCHARGE. TURBID WATER FROM STORMWATER POND SHALL NOT BE PUMPED DIRECTLY INTO ANY RECEIVING WATERS. TREATMENT CAN INCLUDE SILT FENCES, SETTLING PONDS, PROPER USE OF FLOCCULATING AGENTS OR OTHER APPROPRIATE MEANS.
- DRY RETENTION POND TO BE PROTECTED FROM SILT DURING CONSTRUCTION ACTIVITIES. IF IT IS DETERMINED THAT THE POND BOTTOM HAS BECOME SILTED THEN 6 INCHES OF POND BOTTOM SHALL BE REMOVED & REPLACED WITH CLEAN BACKFILL.



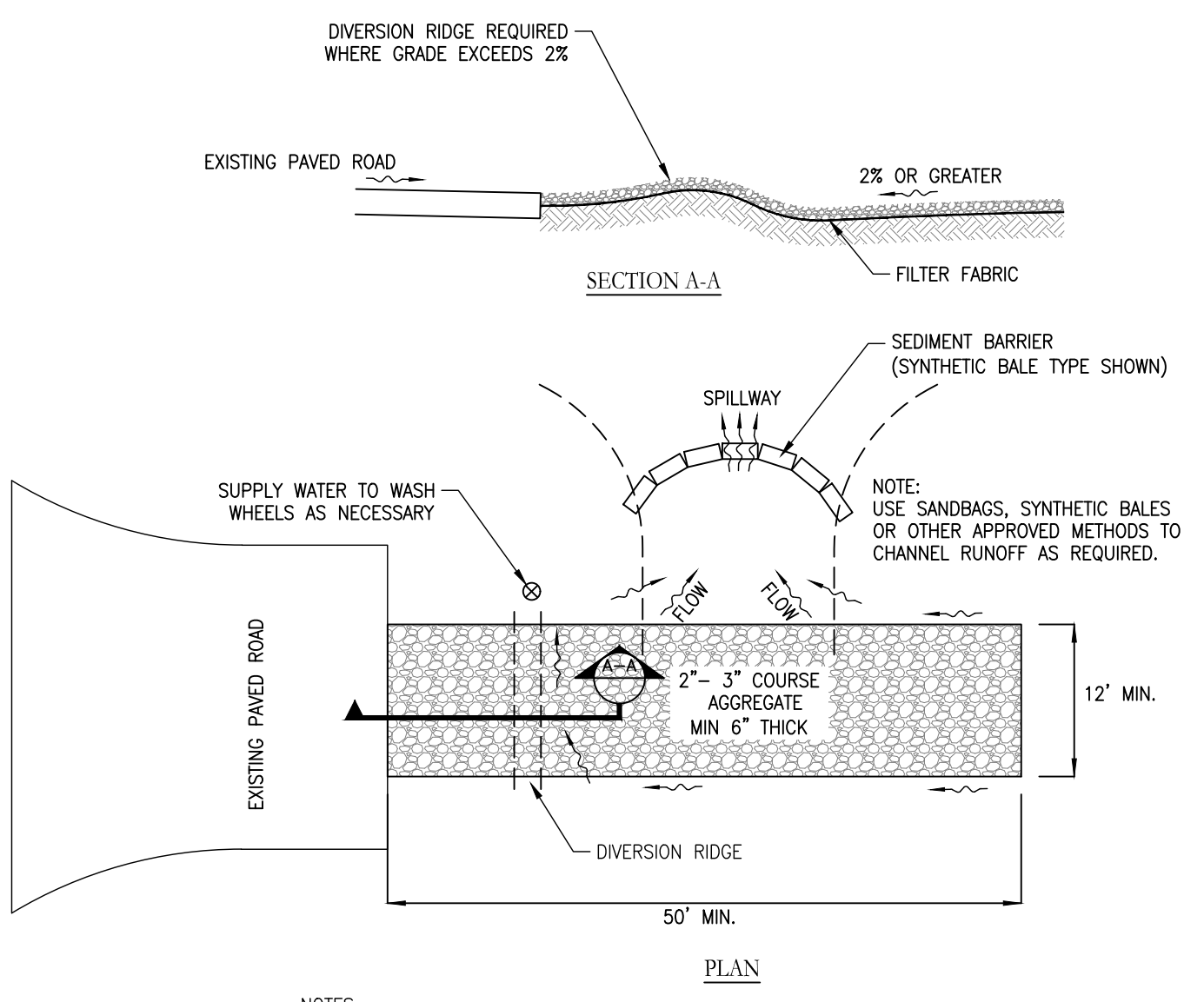
NOTE: THIS FILTER FABRIC PLACEMENT TO BE USED ON EXISTING DBI, OR AFTER DBI HAS BEEN INSTALLED AND DURING SOIL DISTURBING ACTIVITIES, THE FILTER MUST BE CHECKED PERIODICALLY FOR SEDIMENT BUILDUP AND/OR DAMAGE TO FILTER MATERIAL. THE CONTRACTOR MUST REMOVE THE FILTER FABRIC AND CHECK THE STRUCTURES FOR SEDIMENT BUILDUP AFTER SOIL DISTURBING ACTIVITIES HAVE CEASED.

**D.B.I. FILTER FABRIC DETAIL**  
N.T.S.



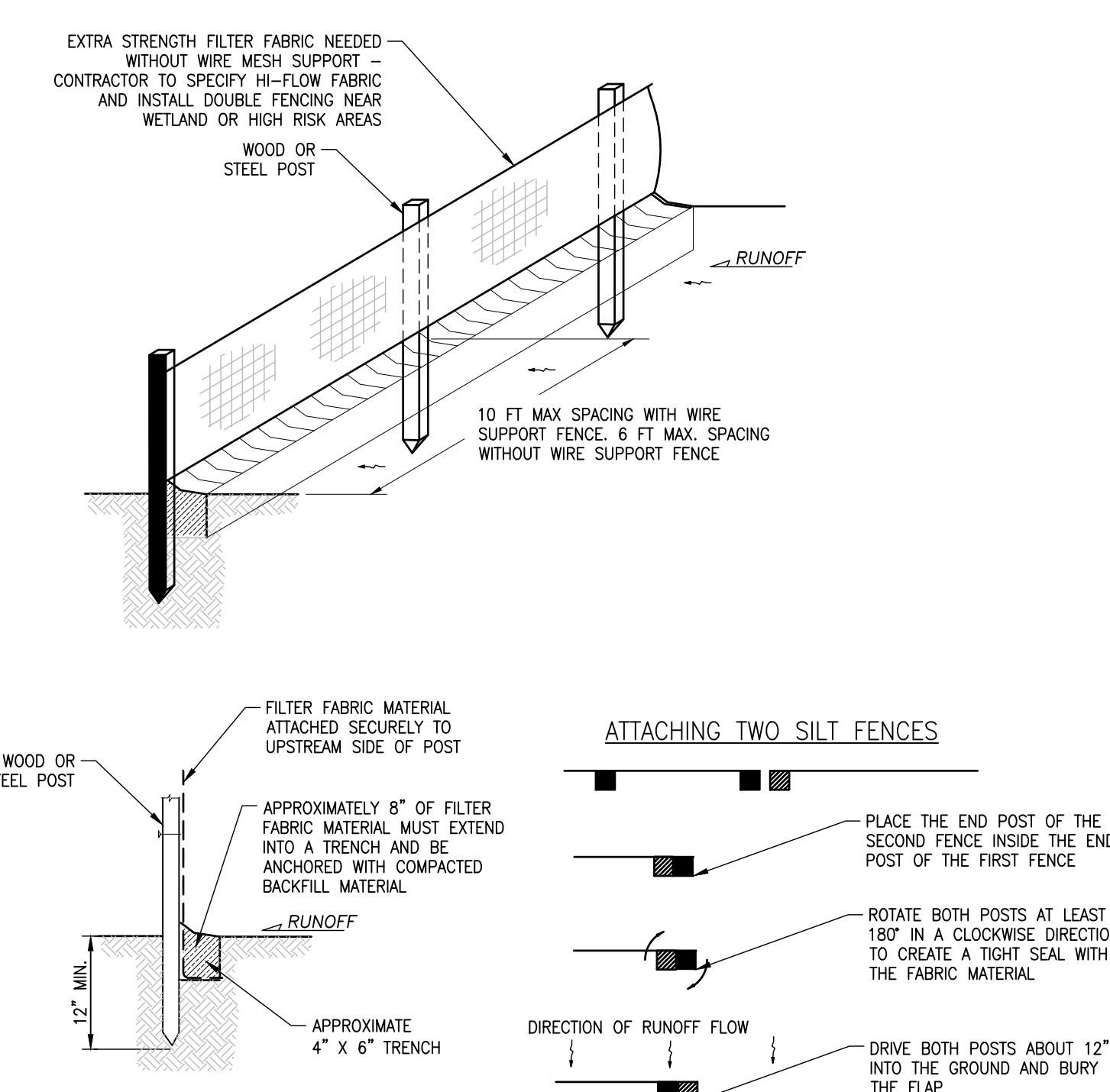
- NOTES:
1. PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREET SEGMENTS, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
  2. SANDBAGS OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC ARE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY.
  3. LEAVE A ONE SANDBAG GAP IN THE TOP ROW TO 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 AND REMOVE SOIL TRACKED ONTO THE STREET.

**CURB INLET PROTECTION**  
N.T.S.



- NOTES:
1. CONSTRUCTION ENTRANCE SHALL BE MAINTAINED AND UTILIZED DURING CONSTRUCTION.
  2. 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 CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
  3. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY.
  4. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAIN INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
  5. TEMPORARY ACCESS TO BE CONSTRUCTED TO SUPPORT THE LOAD OF A FIRE APPARATUS.

**TEMPORARY CONSTRUCTION ACCESS**  
N.T.S.



NOTE: ADDITIONAL CONTROLS TO BE UTILIZED AS NEEDED, DEPENDENT UPON ACTUAL SITE CONDITIONS AND CONSTRUCTION OPERATIONS.

**FILTER FABRIC SILT FENCE INSTALLATION**  
N.T.S.

NPDES Information	
Address	N Hancock Rd Minneola FL 34715
Latitude	28°35'29.79"N
Longitude	81°43'09.74"W
Jurisdictional Authority	St. Johns River Water Management District
Total Area (Per Survey)	5.10 ac
Project (Disturbed) Area	±2.60 ac
MS4 Operator	City Of Minneola
Receiving Water Name	ADJACENT STORMWATER POND
Soils (USDA NCRS "Web Soil Survey")	No. 8 Candler Fine Sand, 0-5% Slopes
	No. 9 Candler Fine Sand, 5-12% Slopes

NOTE: FOR PROJECTS WITH DISTURBED AREAS LESS THAN 1 ACRE NPDES PERMITTING IS NOT REQUIRED.

**Sunshine811**

Call 811 or visit [sunshine811.com](http://sunshine811.com) two full business days before digging to have buried facilities located and marked. Check positive response codes before you dig!

Approved by City Council  
3/7/23

Key Map:

Consultant:

1/12/16/2022	RESUBMIT TO CITY	
0/08/02/2022	SUBMIT TO CITY	
NO.	DATE	DESCRIPTIONS
SUBMISSIONS/REVISIONS		
VERTICAL DATUM	NAVD 88	
JOB NO.	20-125	
DESIGNED BY:	RAE	
DRAWN BY:	RAE	
CHECKED BY:	RAO	
APPROVED BY:	RLB	
SCALE IN FEET:	N.T.S.	

Project Name:  
**CONDEV  
HILLS OF  
MINNEOLA PUD  
- AREA 5, POD 19**

Jurisdiction:  
CITY OF MINNEOLA, FL

Sheet Title:  
**EROSION CONTROL  
NOTES & DETAILS**

Sheet No.:  
**C0.11**

Seal:

RICARDO A. ORTIZ  
No. 58129  
P.E. NO. 0058129  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

DATE: December 15, 2022

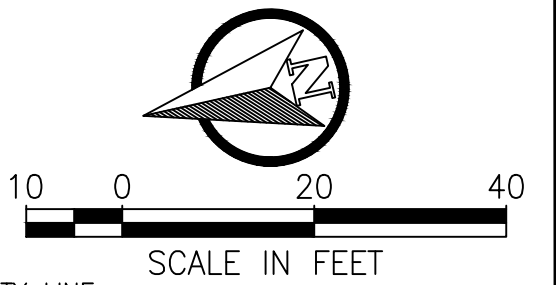
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**POULOS & BENNETT**

**Poulos & Bennett, LLC**  
2602 E. Livingston St., Orlando, FL 32803  
Tel. 407.487.2594 www.poulosandbennett.com  
Eng. Bus. No. 28567

Z:\2020\20-125 CONDEV - MINNEOLA HILLS CROSSING SELF STORAGE FACILITY\DWG\FINAL\CITY\20125-ECDP





Legend:

- PROPERTY LINE
- - - RIGHT OF WAY (R.O.W.)
- - - UTILITY EASEMENT
- - - BUILDING SETBACK
- - - LANDSCAPE BUFFER
- - - PROPOSED FENCE
- - - EXISTING FENCE TO REMAIN

PROPOSED CONCRETE SIDEWALK (REFER TO SHEET C6.10 FOR SIDEWALK SECTIONS)

LIMIT OF CLEAR SIGHT

B.S.P. BUILDING SETBACK PROVIDED

WHITE DIRECTIONAL ARROWS PER FDOT STANDARD PLANS INDEX 711-001

- 1a TYPE "D" CURB PER FDOT STANDARD PLANS INDEX 520-001
- 1b TYPE "T" CURB & GUTTER PER FDOT STANDARD PLANS INDEX 520-001
- 1c VALLEY GUTTER PER FDOT STANDARD PLANS INDEX 520-001
- 1d 3' TRANSITION TYPE "D" CURB - TOP OF CURB TO TRANSITION DOWN TO BE FLUSH WITH GRADE. (SEE SHEET C6.10 FOR DETAIL)
- 1e TYPE "E" CURB PER FDOT STANDARD PLANS INDEX 520-001
- 1f 3' TRANSITION TYPE "E" CURB - TOP OF CURB TO TRANSITION DOWN TO BE FLUSH WITH GRADE. (SEE SHEET C6.10 FOR DETAIL)
- 1g TYPE "A" CURB PER FDOT STANDARD PLANS INDEX 520-001
- 2a 4" THICK 3000 PSI CONCRETE SIDEWALK (SEE PLAN FOR WIDTH; SEE SHEET C6.10 FOR DETAILS)
- 2b 4" THICK 3000 PSI MONOLITHIC SIDEWALK/CURB (SEE PLAN FOR WIDTH; SEE SHEET C6.10 FOR DETAIL)
- 3a F.D.O.T. CR-C ACCESSIBLE RAMP WITH DETECTABLE WARNING MAT PER F.D.O.T. STANDARD PLANS INDEX 522-002
- 3b F.D.O.T. CR-E ACCESSIBLE RAMP WITH DETECTABLE WARNING MAT PER F.D.O.T. STANDARD PLANS INDEX 522-002
- 4a 6' WIDE SPECIAL MARKING CROSSWALK PER F.D.O.T. STANDARD PLANS INDEX 711-001
- 4b 6" WIDE WHITE PARKING STRIPE (TYP.) STANDARD PAINT PER FDOT STANDARD PLANS INDEX 711-001 & STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 710
- 4c ACCESSIBLE PARKING & SIGNAGE PER FDOT STANDARD PLANS INDEX 711-001 FOR DETAILS (SEE SHEET C6.10 FOR DETAIL)
- 4d R1-1 30"x30" STOP SIGN WITH 24"-WIDE WHITE STOP BAR (TYP.) (REFER TO FDOT STANDARD PLANS INDEX 700-010 & 711-001 FOR DETAILS)
- 4e 30"x30" DO NOT ENTER SIGN (TYP.) (REFER TO FDOT STANDARD PLANS INDEX 700-010 FOR DETAILS)
- 4f ELECTRIC VEHICLE PARKING SIGNS & PAVEMENT MARKINGS WITH CHARGING STATION PEDESTAL
- 4g 6"-WIDE YELLOW STRIPE ON 6"-HIGH STEP
- 4h DIRECTIONAL SIGNAGE AND SPECIAL PAVEMENT MARKINGS.
- 4i NO PARKING SIGNAGE & FIRE LANE STRIPING. STANDARD PAINT PER FDOT STANDARD PLANS INDEX 711-001 & STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 710 (SEE DETAIL SHEET C6.10)
- 4j 18" YELLOW FDOT PAINT STRIPING AT 10' ON CENTER (SEE NOTE 2 ON THIS SHEET)
- 4k 6" DOUBLE YELLOW FDOT PAINT STRIPING (SEE NOTE 2 ON THIS SHEET)
- 5a BOLLARDS (REFER TO ARCHITECTURAL PLANS FOR DETAILS)
- 5b CONCRETE WHEEL STOP (PER CONCRETE BUMPER GUARD DETAIL FDOT STANDARD PLANS INDEX NO. 520-001, SHEET 2 OF 2)
- 6 DUMPSTER ENCLOSURE (SEE ARCHITECTURAL PLANS FOR DETAILS)
- 7 SECURITY GATE (AUTOMATIC TYPE, TO BE SPECIFIED BY OWNER) SHALL BE PROVIDED WITH KEY SWITCH BACK UP FOR EMERGENCY VEHICLE'S ACCESS. GATE OPENING SHALL BE MINIMUM OF 20' CLEAR WIDTH TO PROVIDE ADEQUATE ACCESS TO EMERGENCY VEHICLES

Consultant:

1	12/16/2022	RESUBMIT TO CITY
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	CHECKED BY:	RAO
	APPROVED BY:	RLB
	SCALE IN FEET:	1" = 20'

Project Name:  
**CONDEV  
 HILLS OF  
 MINNEOLA PUD  
 - AREA 5, POD 19**

Jurisdiction:  
 CITY OF MINNEOLA, FL

Sheet Title:  
**SITE & GEOMETRY  
 PLAN**

Sheet No.:  
**C2.00**

Seal:  
  
 RICARDO A. ORTIZ  
 P.E. NO. 0058129  
 DATE: December 15, 2022

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SIGHT LINES PER F.D.O.T.  
 30 MPH D=335'  
 F.D.M. SECTION 212.11

**PERSONAL STORAGE BUILDING**  
 3-STORY; 100,175 SF  
 FFE 224.00

SIGHT LINES PER F.D.O.T.  
 30 MPH D=335'  
 F.D.M. SECTION 212.11

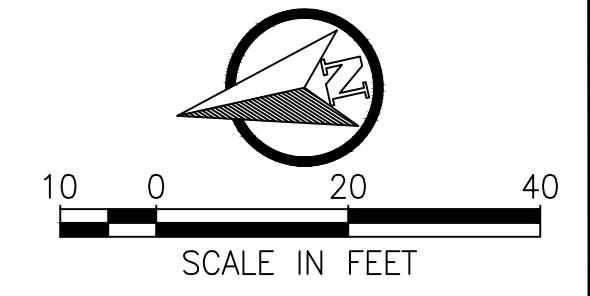
Approved by City Council  
 3/7/23

NOTES:

1. ALL DIMENSIONS ARE TO FACE OF CURB, BUILDING FACE (OUTSIDE WALL), EDGE OF PAVEMENT (WHERE NO CURB IS PRESENT), OR PROPERTY LINE, UNLESS OTHERWISE NOTED.
2. FOR ALL STRIPING AND MARKINGS REFER TO F.D.O.T. STANDARD PLANS INDEX 711-001 FOR DETAILS - SPECIAL MARKING AREAS. ALL PAVEMENT MARKINGS TO BE STANDARD PAINT PER F.D.O.T. STANDARD PLAN INDEX 711-001 & STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 710. FOR ALL SIGNAGE REFER TO THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
3. SURVEYOR TO VERIFY BUILDING DIMENSIONS WITH ARCHITECTURAL PLANS PRIOR TO COMMENCING CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
4. CONTRACTOR TO REFER TO GENERAL NOTES SHEET C0.01, C0.02 & C0.03 FOR ADDITIONAL CONDITIONS.

Z:\2020\20-125 CONDEV - MINNEOLA HILLS CROSSING SELF STORAGE FACILITY\CAD\FINAL\CITY\2025-C20





Approved by City Council  
3/7/23

- Legend:**
- PROPERTY LINE
  - RIGHT OF WAY (R.O.W.)
  - UTILITY EASEMENT
  - BUILDING SETBACK
  - LANDSCAPE BUFFER
  - X-X- PROPOSED FENCE
  - X-X- EXISTING FENCE TO REMAIN
  - WM- PROPOSED WATERMAIN
  - RW- PROPOSED RECLAIMED WATERMAIN
  - FW- PROPOSED FIRE WATER LINE & FIRE HYDRANT
  - FDC- PROPOSED FIRE DEPARTMENT CONNECTION (FDC)
  - PROPOSED STORMWATER PIPE & MANHOLE
  - PROPOSED SANITARY SEWER PIPE & MANHOLE
  - EXISTING ELECTRIC LINE
  - EXISTING TELECOMMUNICATIONS LINE
  - EXISTING RECLAIMED WATER LINE
  - EXISTING STORMWATER PIPE & STRUCTURE
  - EXISTING OVERHEAD WIRE
  - PROPOSED STORM INLET STRUCTURE
  - NYLOPLAST DRAIN BASIN OR APPROVED EQUAL
  - EXISTING MANHOLE STRUCTURE
  - 121 PROPOSED CONTOUR
  - X 129.25 PROPOSED GRADING SPOT ELEVATION
  - X 125.45 PROPOSED TOP OF CURB ELEVATION
  - X 124.75 BOTTOM OF CURB ELEVATION
  - 121 EXISTING CONTOUR
  - X 80.25 EXISTING GRADING SPOT ELEVATION
  - FLOW DIRECTION ARROW
  - PROPOSED CONCRETE SIDEWALK (REFER TO SHEET C6.10 FOR SIDEWALK SECTIONS)
  - PROPOSED LIGHT DUTY PAVEMENT (REFER TO SHEET C6.10 FOR PAVEMENT SECTIONS)
  - SUBMISSIONS/REVISIONS
  - PROPOSED HEAVY DUTY PAVEMENT (REFER TO SHEET C6.10 FOR PAVEMENT SECTIONS)

NOTE: HIGH PERFORMANCE (HP) PIPE CAN BE USED IN LIEU OF RCP AS AN ALTERNATE WHEN NOT STRUCTURALLY LOADED BY VEHICLES.

Consultant:

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NO.	DATE	DESCRIPTIONS
SUBMISSIONS/REVISIONS		
VERTICAL DATUM:	NAVD 88	
JOB NO.:	20-125	
DESIGNED BY:	RAE	
DRAWN BY:	RAE	
CHECKED BY:	RAO	
APPROVED BY:	RLB	
SCALE IN FEET:	1" = 20'	

Project Name:  
**CONDEV  
HILLS OF  
MINNEOLA PUD  
- AREA 5, POD 19**

Jurisdiction:  
CITY OF MINNEOLA, FL

SHEET TITLE:  
**DRAINAGE &  
GRADING PLAN**

Sheet No.:  
**C3.00**

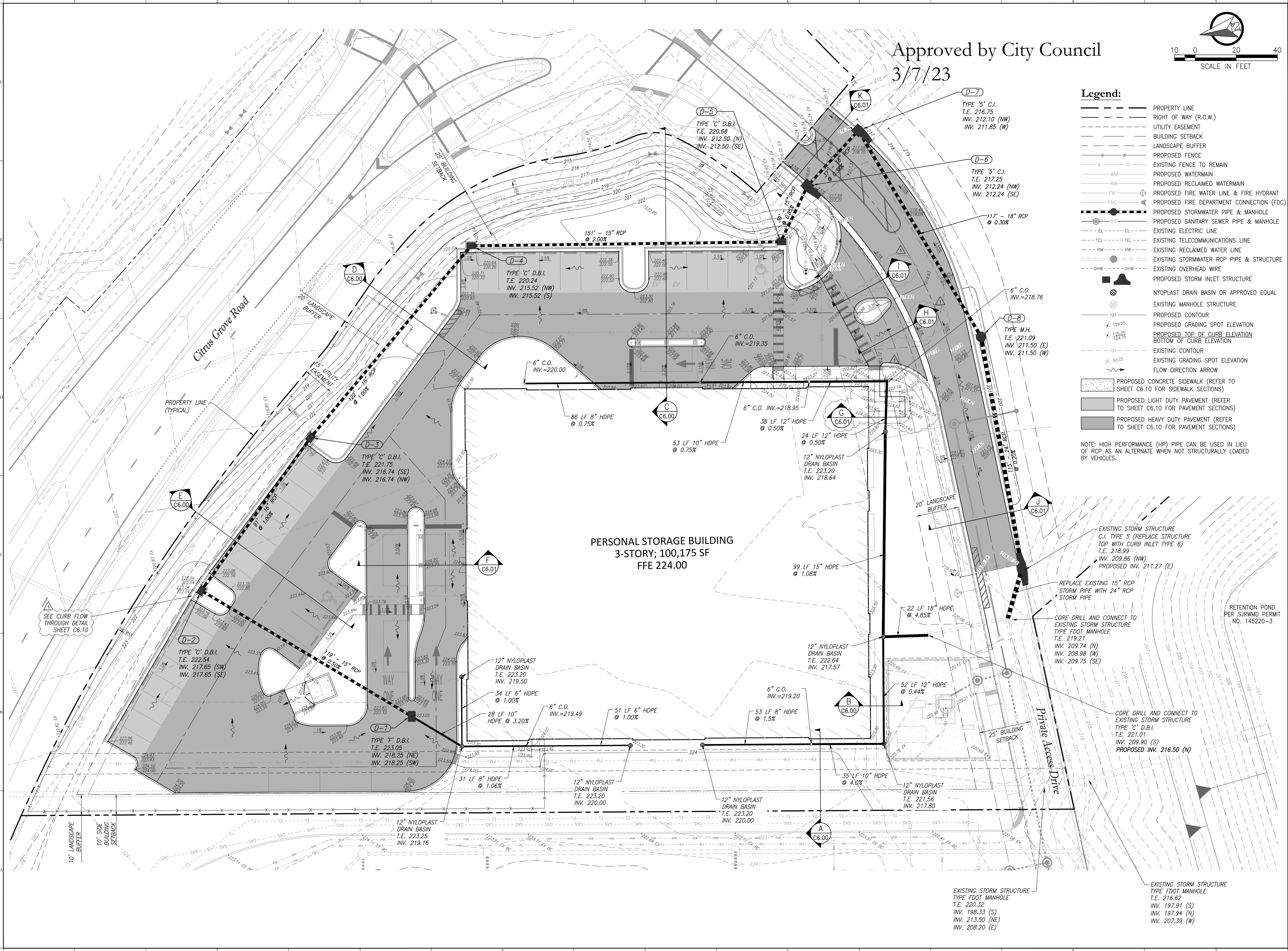
Seal:

RICARDO A. ORTIZ  
No. 58129  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
DATE: December 15, 2022

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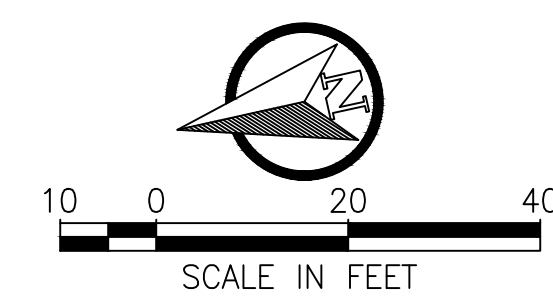


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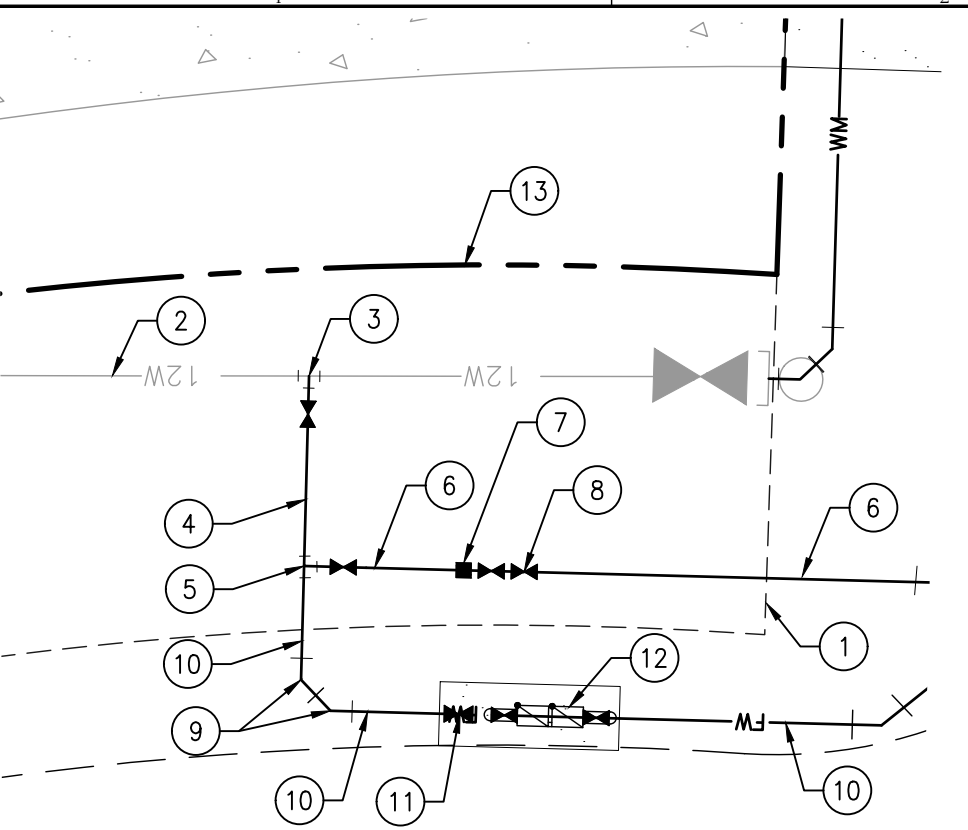
Approved by City Council  
3/7/23



**Needed Fire Flow Calculations (ISO)**  
**NFF=(C)(O)(1+(X+P)) & C=18F(A<sup>0.5</sup>)**

Building	Floors	F	A (Area) <sup>(sq)</sup>	C (gpm)	O (Occupancy Factor)	X (Exposure Factor)	P (Communication Factor)	NFF (gpm)	NFF (gpm) (Adjusted)	NFF (gpm) (Rounded to the Nearest 250 gpm)	Hydrants Required	Fire Hydrants Provided
Self-Storage	3	0.8	66,784	3,721	0.85	0.00	0.00	3,163	1,581	1,500	2	2

Notes:  
 1. X + P are zero for sprinklered buildings.  
 2. NFF Adjusted = 50% reduction for sprinklered buildings.  
 3. Required Minimum Fire Flow for City of Minneola is 1,500 gpm per City of Minneola Code Chapter 70 Section 70-362(b)(2).  
 4. Total effective area = Largest floor area (33,392 sq-ft/floor) + 50% of the total sum of other floor areas.



**WATER CONNECTION DETAIL "A"**

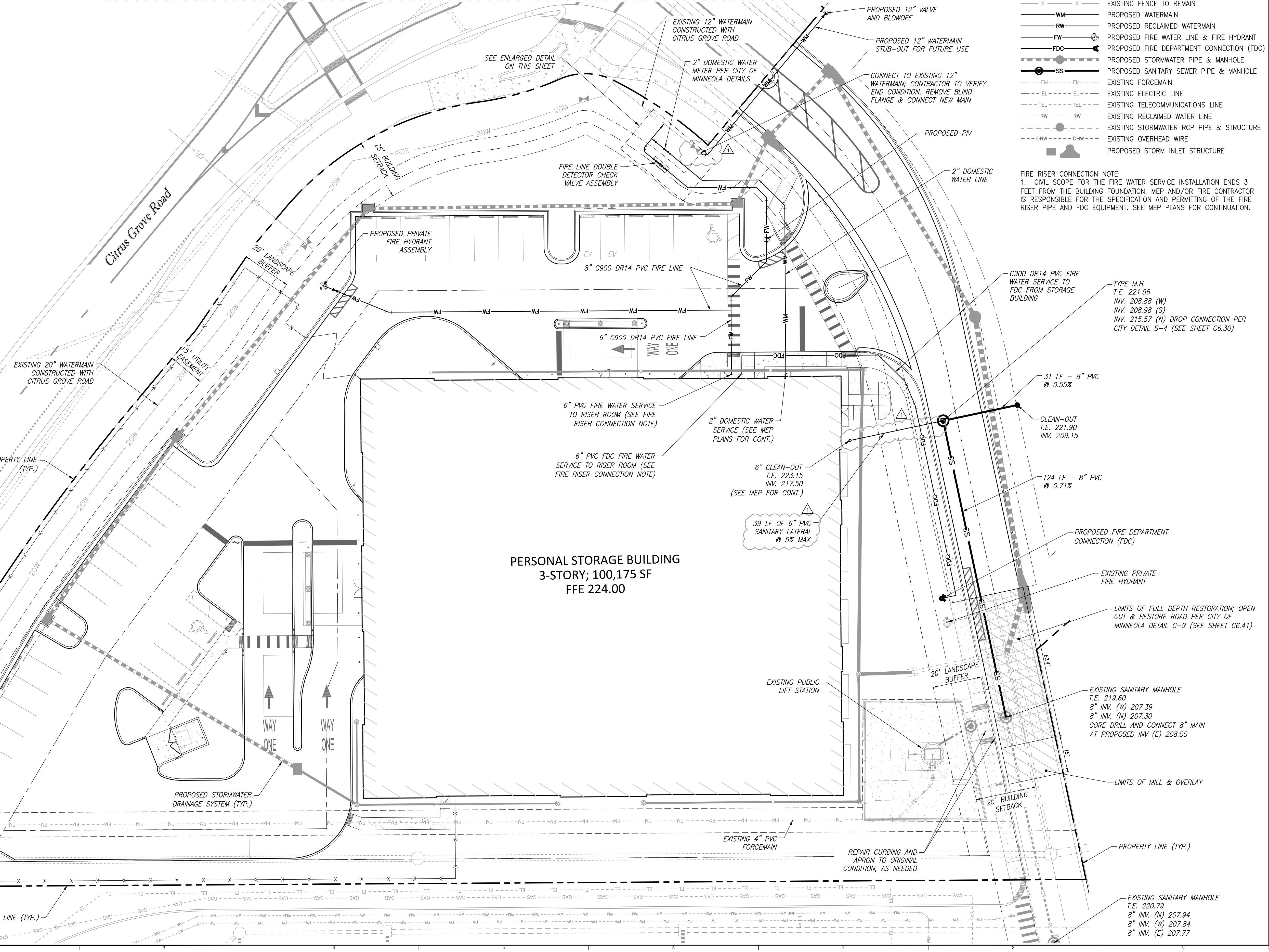
NOTE:  
POST INDICATOR VALVE SHALL BE PROVIDED WITH TAMPER SWITCH. REFER TO ELECTRICAL PLANS FOR DETAILS

- 1 EXISTING CITY OF MINNEOLA UTILITY EASEMENT PER CITRUS GROVE ROAD PLANS
- 2 PROPOSED 12" WATER PVC C900 MAIN CONSTRUCTED WITH THE CITRUS GROVE ROAD PROJECT. CONTRACTOR TO COORDINATE WITH CITRUS GROVE ROAD PROJECT CONTRACTOR FOR SCHEDULE OF PROPOSED 12" WATER MAIN CONSTRUCTION
- 3 PROPOSED WET TAP - INSTALL 12"x8" SPLIT TAPPING SLEEVE WITH 8" GATE VALVE PER CITY OF MINNEOLA STANDARDS. FITTINGS CAN BE USED IN LIEU OF WET TAP IF COORDINATED SUFFICIENTLY AHEAD OF CONSTRUCTION SCHEDULE FOR CGR.
- 4 8" PVC C900 DR14 WATER MAIN
- 5 8" X 2" SERVICE CLAMP WITH 2" CORP STOP PER CITY OF MINNEOLA STANDARDS
- 6 2" PVC SCHEDULE 40 WATER SERVICE LINE
- 7 1" METER PROVIDED BY CITY OF MINNEOLA
- 8 1" REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTER PER CITY OF MINNEOLA STANDARDS. BACKFLOW SHALL BE PROVIDED WITH FEBCO SERIES FPIC-1 THERMOSTATIC FREEZE RELIEF KIT OR APPROVED EQUAL. BACKFLOW SHALL BE PROVIDED WITH TAMPER SWITCH (REFER TO ELECTRICAL PLANS FOR TAMPER SWITCH DETAILS)
- 9 8" MJ 45° BEND
- 10 8" PVC C900 DR14 FIRE WATER LINE
- 11 8" FIRE SERVICE CONTROL VALVE
- 12 PROPOSED 8" DETECTOR CHECK VALVE ASSEMBLY FOR FIRE PROTECTION PER CITY OF MINNEOLA STANDARDS. BACKFLOW SHALL BE PROVIDED WITH FEBCO SERIES FPIC-1 THERMOSTATIC FREEZE RELIEF KIT OR APPROVED EQUAL. BACKFLOW SHALL BE PROVIDED WITH TAMPER SWITCH (REFER TO ELECTRICAL PLANS FOR TAMPER SWITCH DETAILS)
- 13 RIGHT-OF-WAY/ PROPERTY LINE

**Legend:**

- PROPERTY LINE
- RIGHT OF WAY (R.O.W.)
- UTILITY EASEMENT
- BUILDING SETBACK
- LANDSCAPE BUFFER
- PROPOSED FENCE
- EXISTING FENCE TO REMAIN
- WM --- PROPOSED WATERMAIN
- RW --- PROPOSED RECLAIMED WATERMAIN
- FW --- PROPOSED FIRE WATER LINE & FIRE HYDRANT
- FDC --- PROPOSED FIRE DEPARTMENT CONNECTION (FDC)
- SS --- PROPOSED STORMWATER PIPE & MANHOLE
- FM --- PROPOSED SANITARY SEWER PIPE & MANHOLE
- EL --- EXISTING FORCEMAIN
- EL --- EXISTING ELECTRIC LINE
- TEL --- EXISTING TELECOMMUNICATIONS LINE
- RW --- EXISTING RECLAIMED WATER LINE
- EL --- EXISTING STORMWATER RCP PIPE & STRUCTURE
- OHW --- EXISTING OVERHEAD WIRE
- PROPOSED STORM INLET STRUCTURE

**FIRE RISER CONNECTION NOTE:**  
 1. CIVIL SCOPE FOR THE FIRE WATER SERVICE INSTALLATION ENDS 3 FEET FROM THE BUILDING FOUNDATION. MEP AND/OR FIRE CONTRACTOR IS RESPONSIBLE FOR THE SPECIFICATION AND PERMITTING OF THE FIRE RISER PIPE AND FDC EQUIPMENT. SEE MEP PLANS FOR CONTINUATION.



**PERSONAL STORAGE BUILDING**  
3-STORY; 100,175 SF  
FFE 224.00

Consultant:

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SCALE IN FEET:	1" = 20'	

Project Name:  
**CONDEV  
HILLS OF  
MINNEOLA PUD  
- AREA 5, POD 19**

Jurisdiction:  
CITY OF MINNEOLA, FL

Sheet Title:  
**WATER &  
WASTEWATER PLAN**

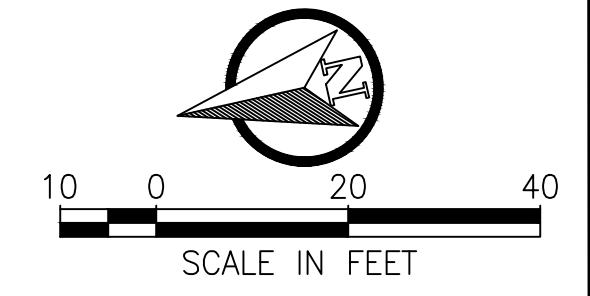
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**C4.00**

Seal:  
  
 RICARDO A. ORTIZ  
 P.E. NO. 0058129  
 DATE: December 15, 2022

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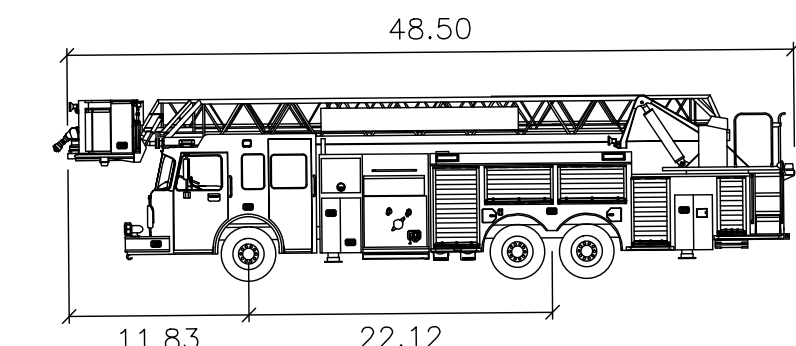


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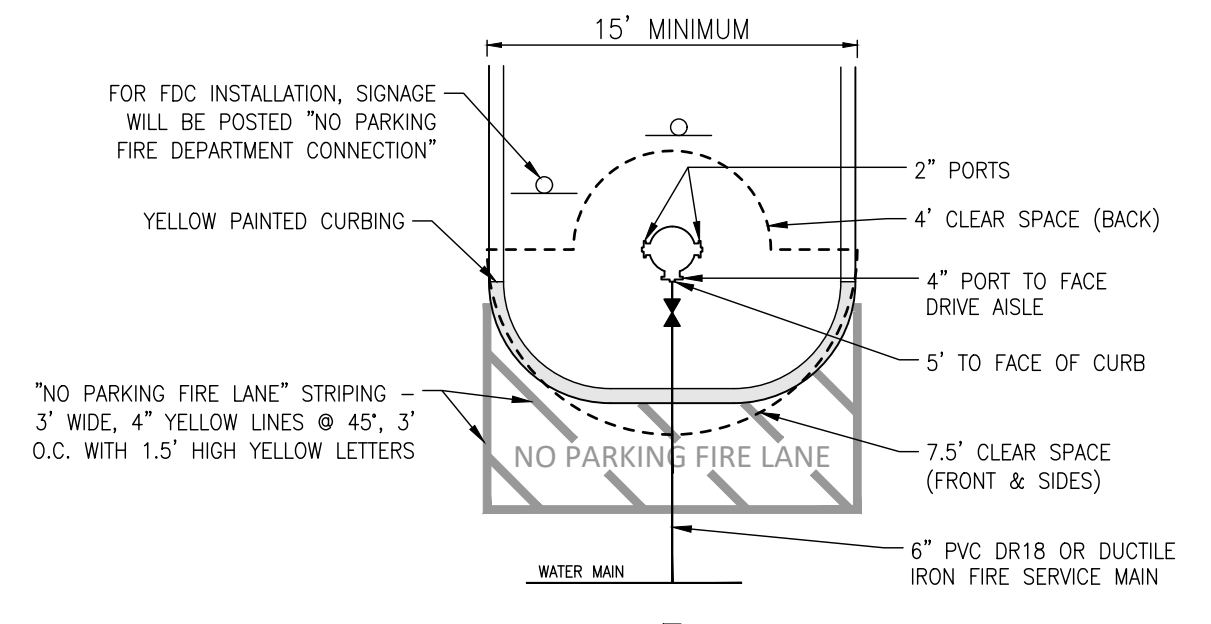
**Legend:**

- PROPERTY LINE
- - - RIGHT OF WAY (R.O.W.)
- - - UTILITY EASEMENT
- - - BUILDING SETBACK
- - - LANDSCAPE BUFFER
- - - PROPOSED FENCE
- x x EXISTING FENCE TO REMAIN
- ▨ PROPOSED CONCRETE SIDEWALK (REFER TO SHEET C6.10 FOR SIDEWALK SECTIONS)
- ▨ AERIAL PLATFORM (SEE SKETCH BELOW FOR TRUCK SPECIFICATIONS)



**Minneapolis Fire Truck**  
 feet  
 Width : 8.50  
 Track : 7.69  
 Lock to Lock Time : 6.0  
 Steering Angle : 44.8

**CITY OF MINNEOLA FIRE TRUCK**  
N.T.S.



**FIRE HYDRANT/FDC ASSEMBLY SCHEMATIC**  
N.T.S.

- FIRE PROTECTION SYSTEM NOTES:**
- Prior to construction plan approval, hydraulic calculations will be submitted showing that the proposed utilities provide adequate flow and meet minimum pressure requirements per City of Minneola.
  - Fire hydrants and Fire Department Connections shall have a clearance of 7'-6" in front and to the sides with a 4' clearance to the rear.
  - Fire hydrants and Fire Department Connections (FDC) shall maintain 40' separation from the buildings they serve. Fire hydrant and FDC shall not have more than 100' of separation.
  - Proposed buildings, unless otherwise listed, will have automatic fire sprinkler systems.
  - Appropriate signage & pavement striping is required per NFPA 18.2.3.5.3
  - Fire riser and appurtenances to be specified by licensed fire designer.
  - During construction, when combustibles are brought onto the site, access roads and a suitable temporary or permanent supply of water acceptable to the fire department shall be provided and maintained, NFPA 1 (FFPC 7th Edition)

**PERSONAL STORAGE BUILDING**  
 3-STORY; 100,175 SF  
 FFE 224.00

**Needed Fire Flow Calculations (ISO)**

$NFF=(C)(O)(1+(X+P)) \ \& \ C=18F(A^{0.5})$

Building	Floors	F	A (Area) <sup>(ft²)</sup>	C (gpm)	O (Occupancy Factor)	X (Exposure Factor)	P (Communication Factor)	NFF (gpm)	NFF (gpm) (Adjusted)	NFF (gpm) (Rounded to the Nearest 250 gpm)	Hydrants Required	Fire Hydrants Provided
Self-Storage	3	0.8	66,784	3,721	0.85	0.00	0.00	3,163	1,581	1,500	2	2

- Notes:**
- X + P are zero for sprinklered buildings
  - NFF Adjusted = 50% reduction for sprinklered buildings
  - Required Minimum Fire Flow for City of Minneola is 1,500 gpm per City of Minneola Code Chapter 70 Section 70-362(b)(2)
  - Total effective area = Largest floor area (33,392sq-ft/floor) + 50% of the total sum of other floor areas

Consultant:

12/16/2022	RESUBMIT TO CITY
08/02/2022	SUBMIT TO CITY
NO. DATE:	DESCRIPTIONS
SUBMISSIONS/REVISIONS	
VERTICAL DATUM:	NAVD 88
JOB NO.:	20-125
DESIGNED BY:	RAE
DRAWN BY:	RAE
CHECKED BY:	RAO
APPROVED BY:	RLB
SCALE IN FEET:	1" = 20'

Project Name:  
**CONDEE HILLS OF MINNEOLA PUD - AREA 5, POD 19**

Jurisdiction:  
 CITY OF MINNEOLA, FL

Sheet Title:  
**FIRE PROTECTION PLAN**

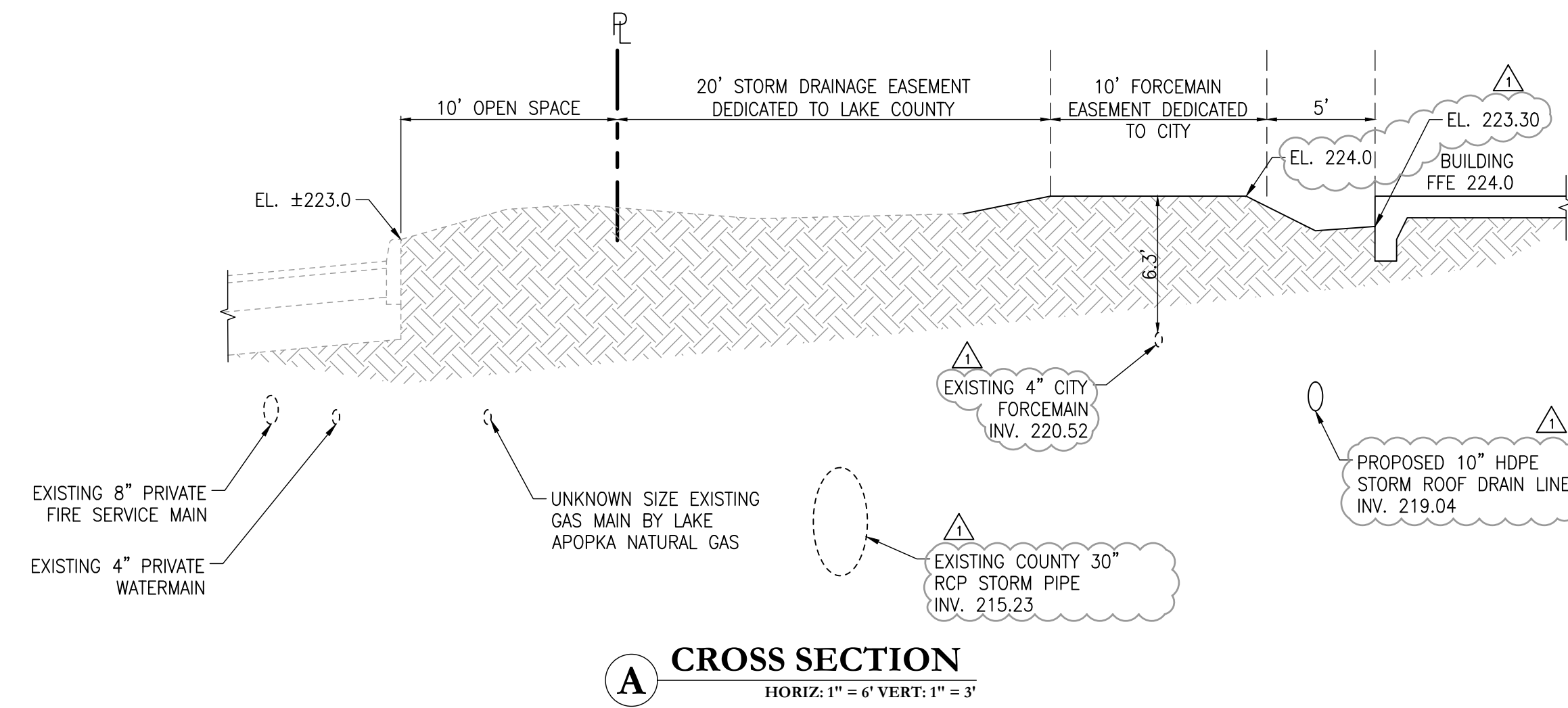
Sheet No.:  
**C5.00**



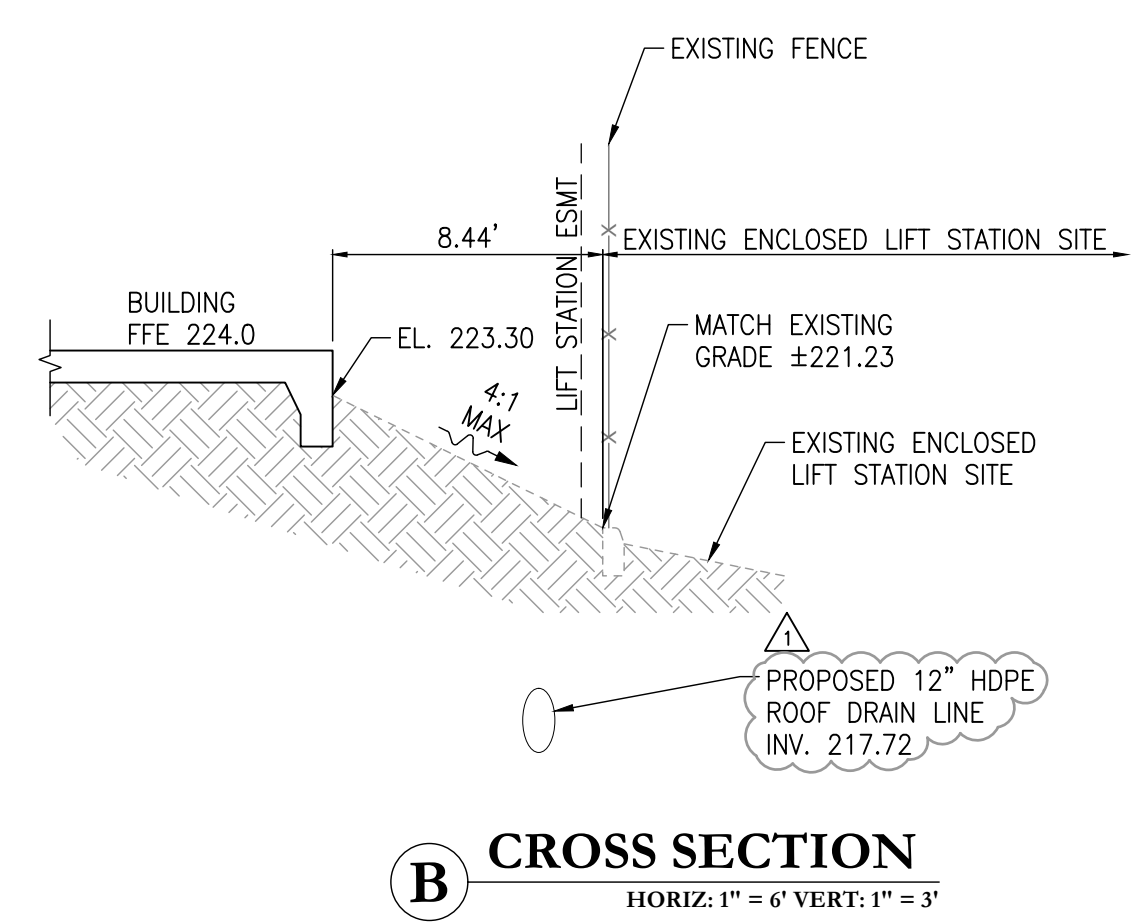
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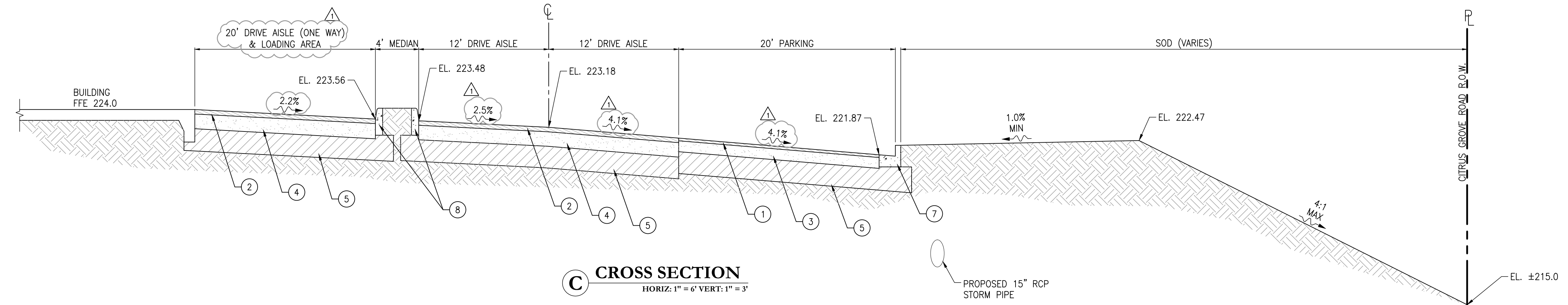
**A CROSS SECTION**  
HORIZ: 1" = 6' VERT: 1" = 3'



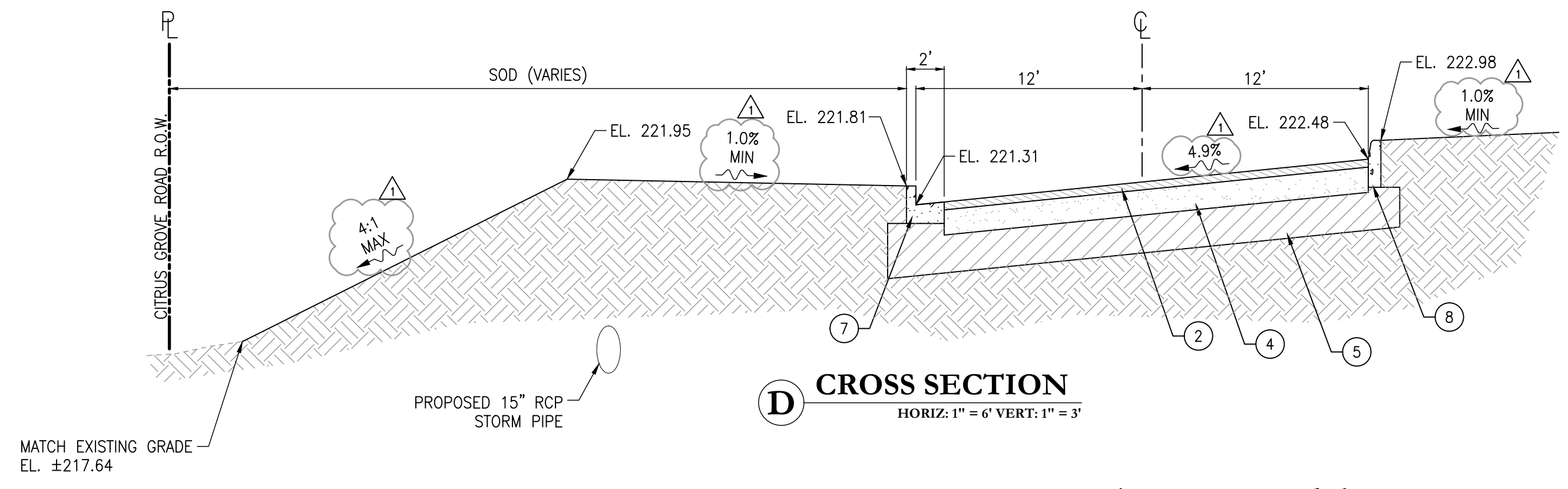
**B CROSS SECTION**  
HORIZ: 1" = 6' VERT: 1" = 3'

Pavement Legend	
Symbol Id.	Description
1	1.5" (IN.) TYPE FDOT SP-9.5 STRUCTURAL COURSE (2 LIFTS)
2	2.5" (IN.) TYPE FDOT SP-9.5 STRUCTURAL COURSE (2 LIFTS)
3	6" (IN.) LIMEROCK BASE COURSE, PLACED IN MAXIMUM 6" LIFTS, COMPACTED TO MINIMUM DENSITY OF 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D 1557) AND EXHIBITING MINIMUM LBR OF 100
4	8" (IN.) LIMEROCK BASE COURSE, PLACED IN MAXIMUM 6" LIFTS, COMPACTED TO MINIMUM DENSITY OF 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D 1557) AND EXHIBITING MINIMUM LBR OF 100
5	12" (IN.) STABILIZED SUBGRADE, COMPACTED TO AT LEAST 98% MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D 1557) AND EXHIBITING MINIMUM FLORIDA BEARING VALUE (FBV) OF 50 PSI
6	4" THICK SIDEWALK (REFER TO SITE AND GEOMETRY PLANS FOR SPECIFICATIONS) SEE DETAIL SHEET C6.10.
7	TYPE "F" CURB & GUTTER PER FDOT STANDARD PLANS INDEX 520-001
8	TYPE "D" CONCRETE CURB PER FDOT STANDARD PLANS INDEX 520-001
9	VALLEY GUTTER PER FDOT STANDARD PLANS INDEX 520-001

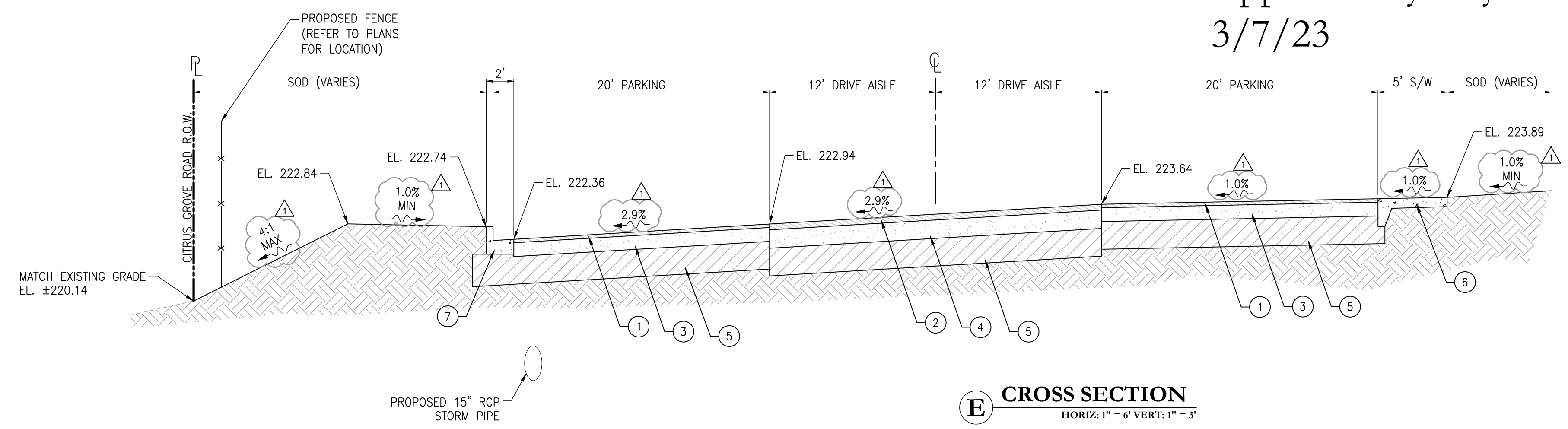
SOURCE: GEOTECHNICAL REPORT NO. 1829064 PREPARED BY UNIVERSAL ENGINEERING SCIENCES, DATED JANUARY 7, 2021



**C CROSS SECTION**  
HORIZ: 1" = 6' VERT: 1" = 3'



**D CROSS SECTION**  
HORIZ: 1" = 6' VERT: 1" = 3'



**E CROSS SECTION**  
HORIZ: 1" = 6' VERT: 1" = 3'

Approved by City Council  
3/7/23

Consultant:

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SCALE IN FEET:	AS SHOWN	

Project Name:  
**CONDEV  
HILLS OF  
MINNEOLA PUD  
- AREA 5, POD 19**

Jurisdiction:  
CITY OF MINNEOLA, FL

Sheet Title:  
**GRADING SECTIONS  
& DETAILS**

Sheet No.:  
**C6.00**

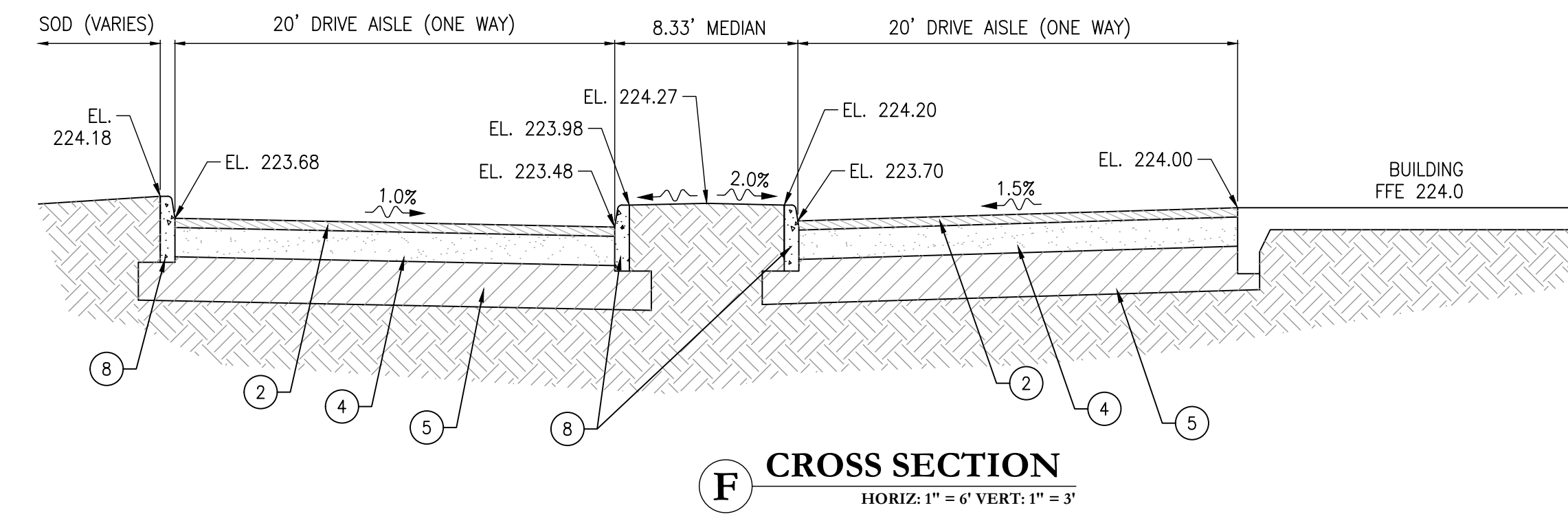
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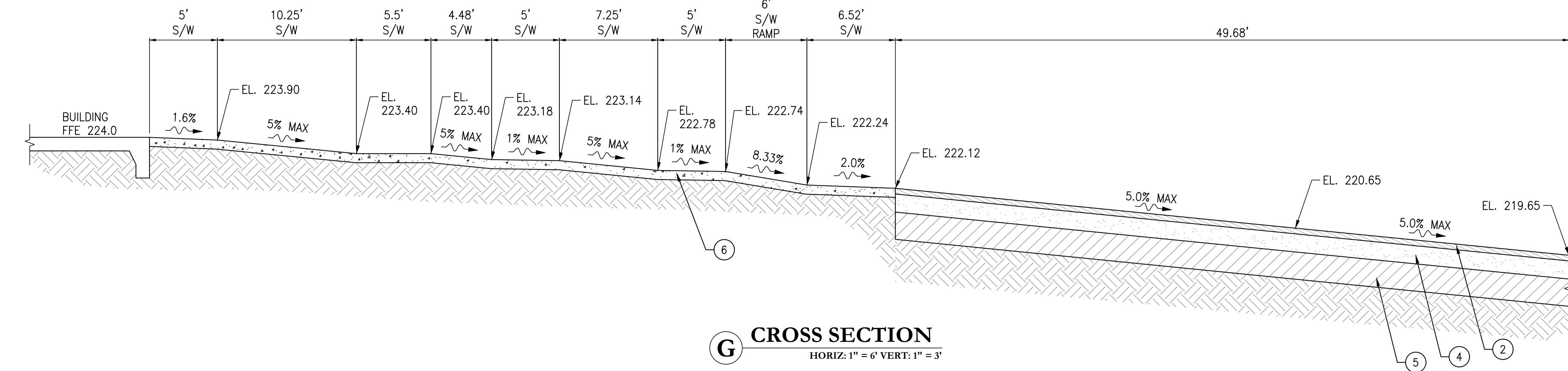
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 2602 E. Livingston St., Orlando, FL 32803  
 Tel. 407.487.2594 www.poulosandbennett.com  
 Eng. Bus. No. 28567

Pavement Legend	
Symbol Id.	Description
①	1.5" (IN.) TYPE FDOT SP-9.5 STRUCTURAL COURSE (2 LIFTS)
②	2.5" (IN.) TYPE FDOT SP-9.5 STRUCTURAL COURSE (2 LIFTS)
③	6" (IN.) LIMEROCK BASE COURSE, PLACED IN MAXIMUM 6" LIFTS, COMPACTED TO MINIMUM DENSITY OF 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D 1557) AND EXHIBITING MINIMUM LBR OF 100
④	8" (IN.) LIMEROCK BASE COURSE, PLACED IN MAXIMUM 6" LIFTS, COMPACTED TO MINIMUM DENSITY OF 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D 1557) AND EXHIBITING MINIMUM LBR OF 100
⑤	12" (IN.) STABILIZED SUBGRADE, COMPACTED TO AT LEAST 98% MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D 1557) AND EXHIBITING MINIMUM FLORIDA BEARING VALUE (FBV) OF 50 PSI
⑥	4" THICK SIDEWALK (REFER TO SITE AND GEOMETRY PLANS FOR SPECIFICATIONS) SEE DETAIL SHEET C6.10.
⑦	TYPE "F" CURB & GUTTER PER FDOT STANDARD PLANS INDEX 520-001
⑧	TYPE "D" CONCRETE CURB PER FDOT STANDARD PLANS INDEX 520-001
⑨	VALLEY GUTTER PER FDOT STANDARD PLANS INDEX 520-001

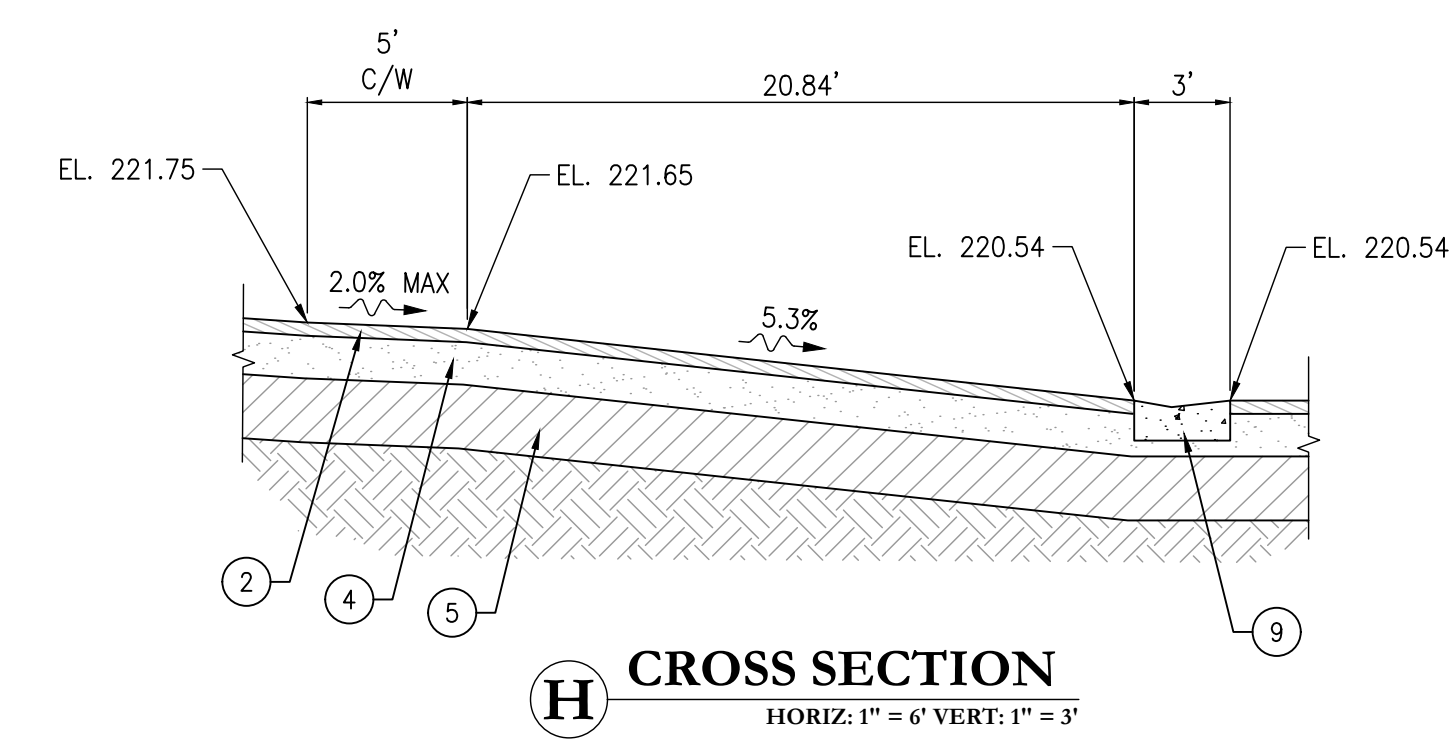
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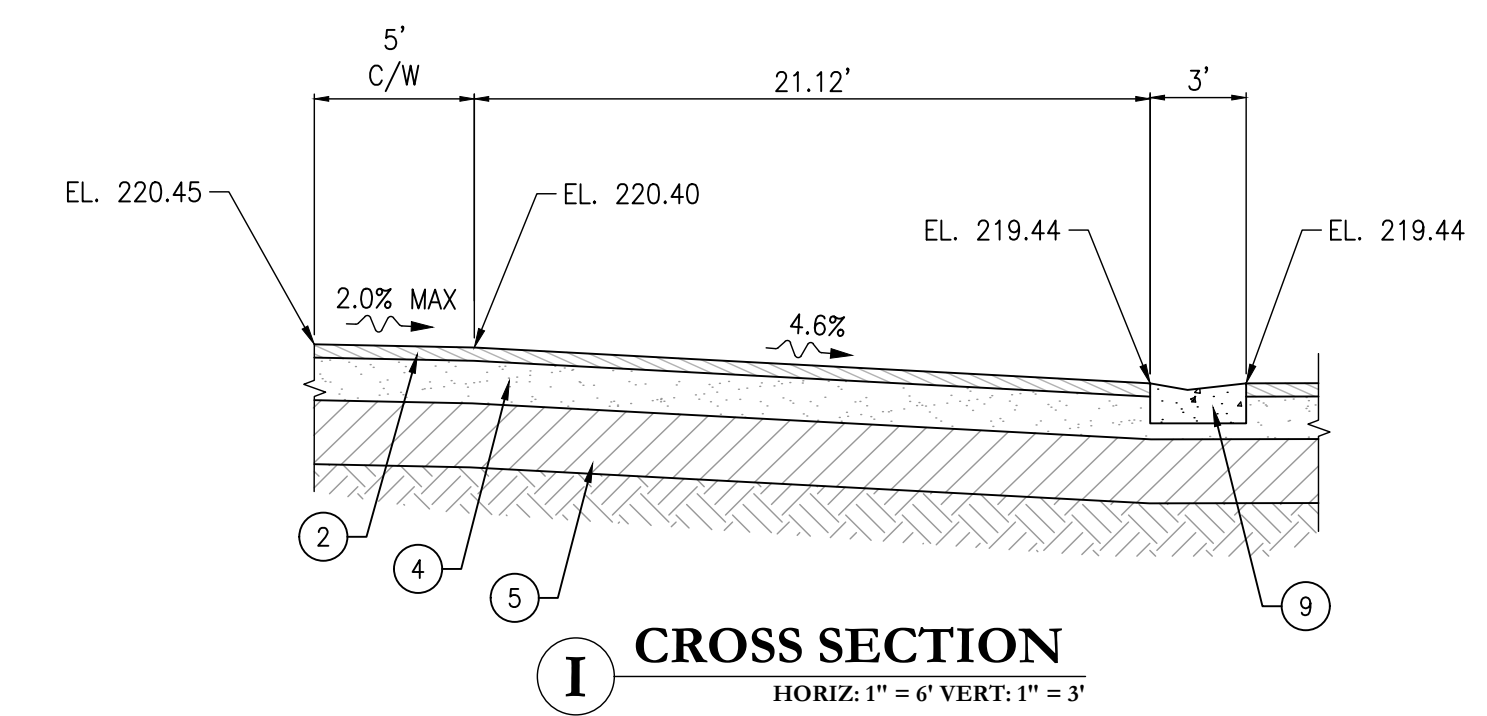
**F CROSS SECTION**  
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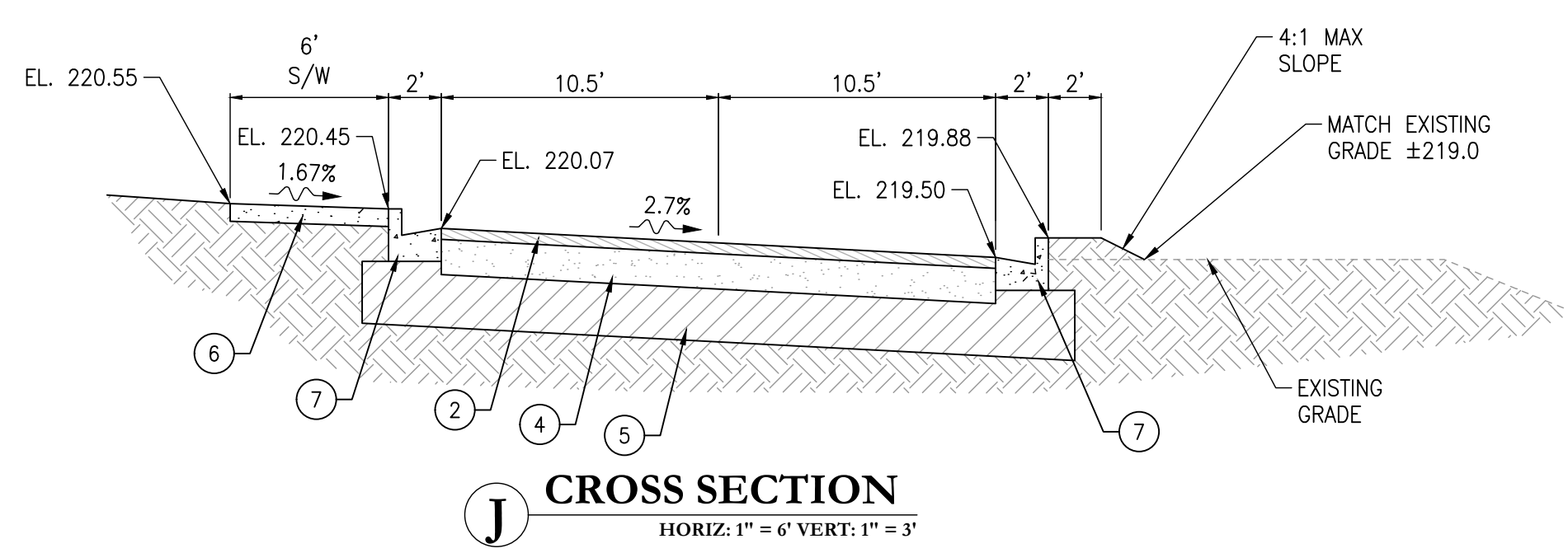
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HORIZ: 1" = 6' VERT: 1" = 3'



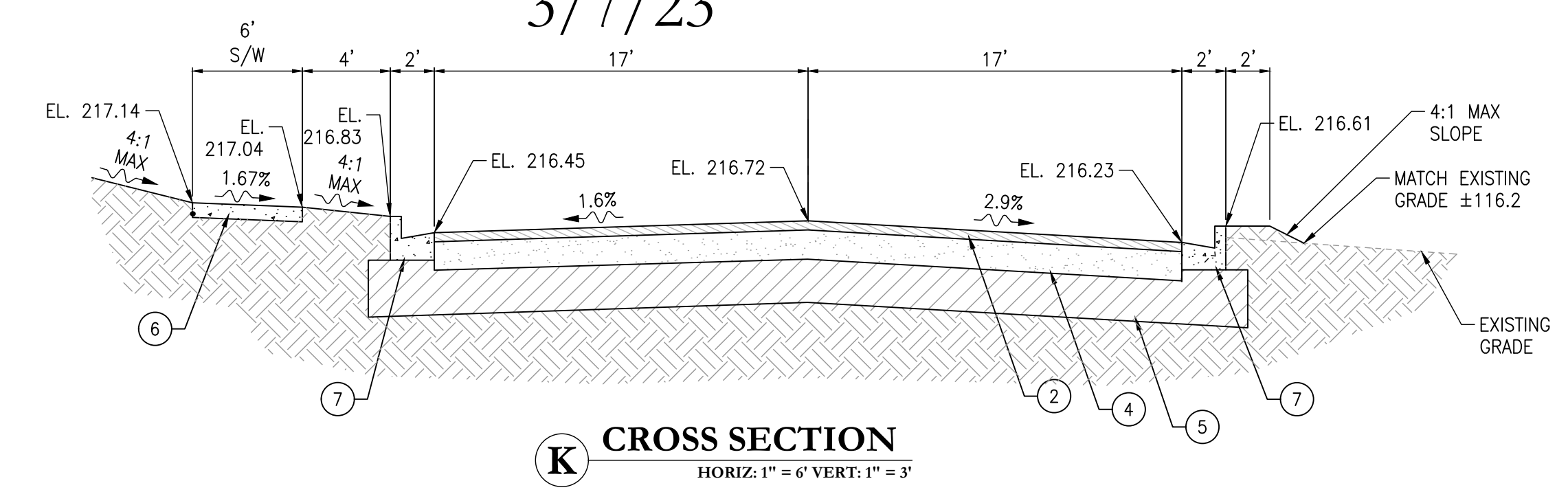
**H CROSS SECTION**  
HORIZ: 1" = 6' VERT: 1" = 3'



**I CROSS SECTION**  
HORIZ: 1" = 6' VERT: 1" = 3'



**J CROSS SECTION**  
HORIZ: 1" = 6' VERT: 1" = 3'



**K CROSS SECTION**  
HORIZ: 1" = 6' VERT: 1" = 3'

Approved by City Council  
3/7/23

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MINNEOLA PUD  
- AREA 5, POD 19**

Jurisdiction:  
CITY OF MINNEOLA, FL

Sheet Title:  
**GRADING SECTIONS  
& DETAILS**

Sheet No.:  
**C6.01**

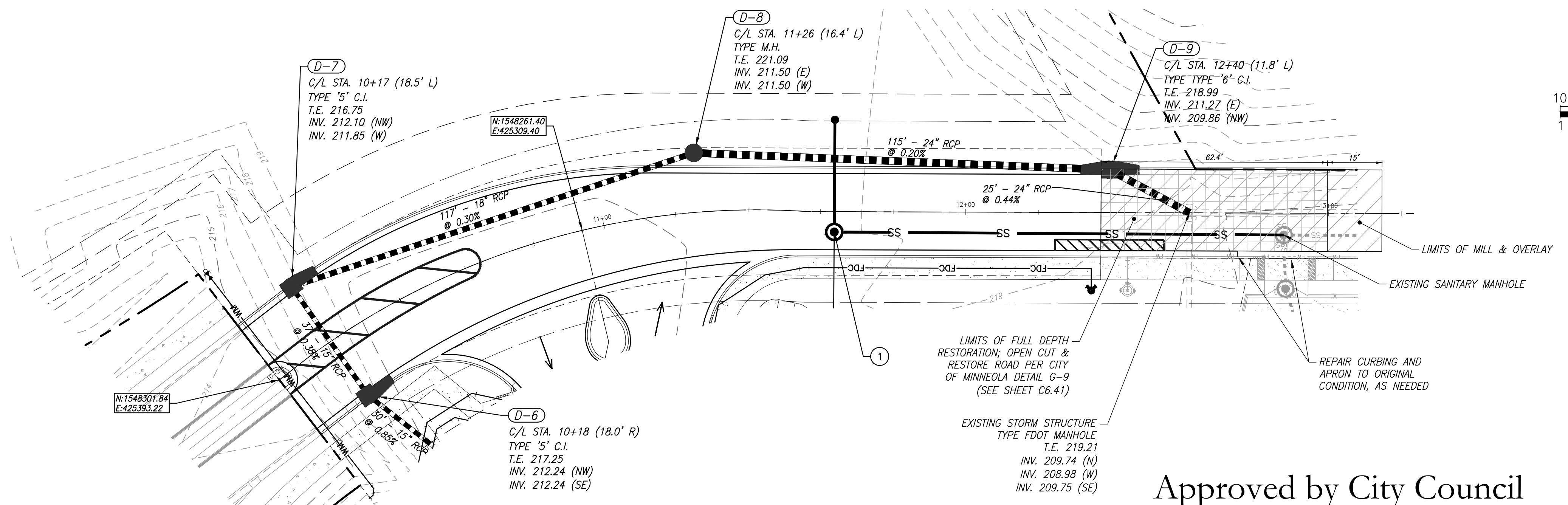
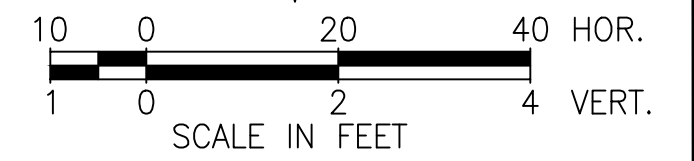
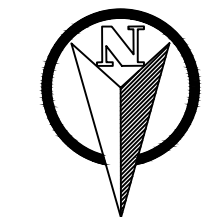
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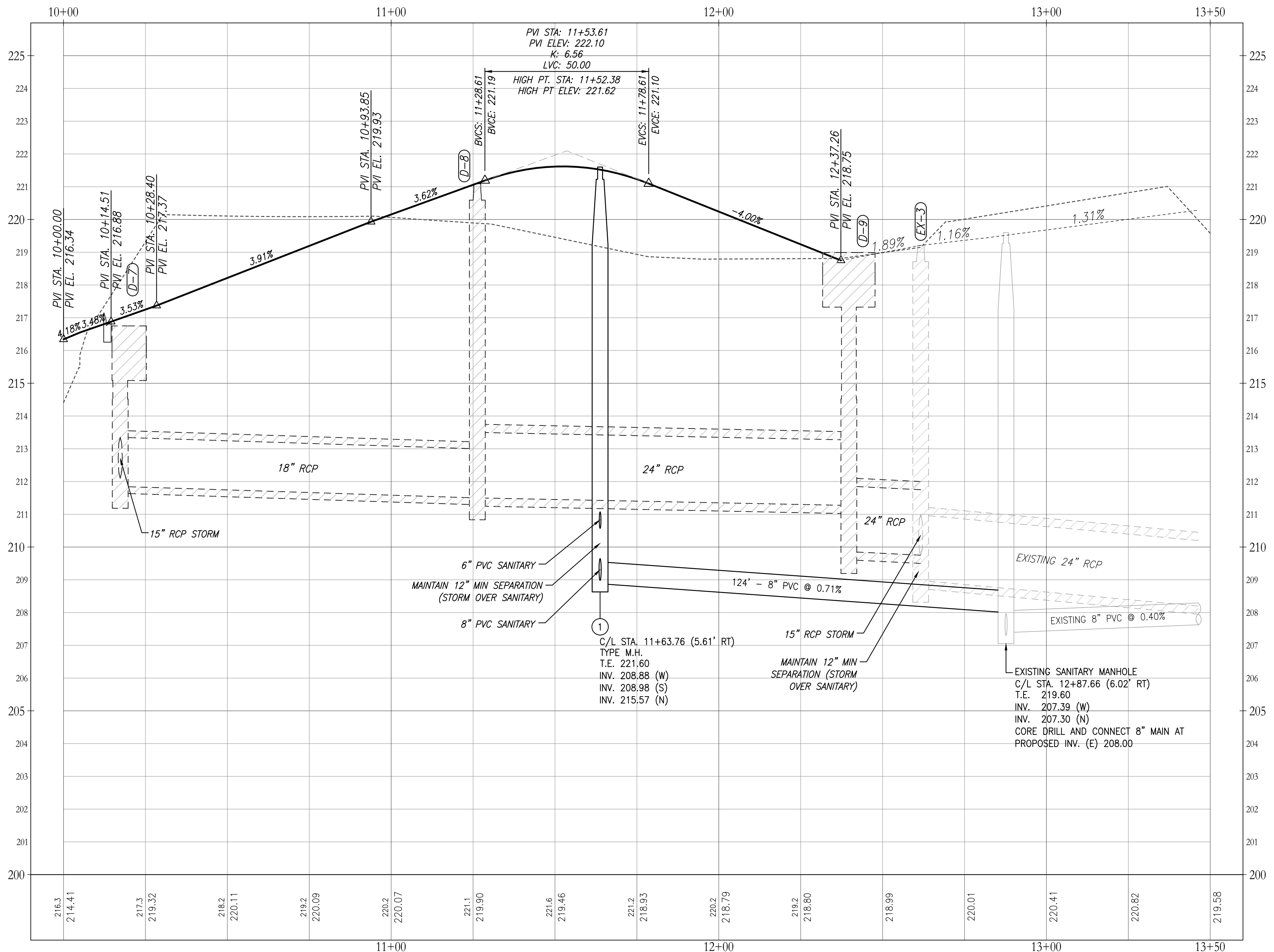
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Z:\2020\20-125 CONDEV - MINNEOLA HILLS CROSSING SELF STORAGE FACILITY\CAD\FINAL\CITY\20125-C6.01.dwg



Approved by City Council  
3/7/23



Consultant:

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Project Name:  
**CONDEV  
HILLS OF  
MINNEOLA PUD  
- AREA 5, POD 19**

Jurisdiction:  
CITY OF MINNEOLA, FL  
Sheet Title:  
**PLAN & PROFILE**

Sheet No.:  
**C6.02**

Seal:  
  
 RICARDO A. ORTIZ  
 P.E. NO. 0058129  
 DATE: December 15, 2022

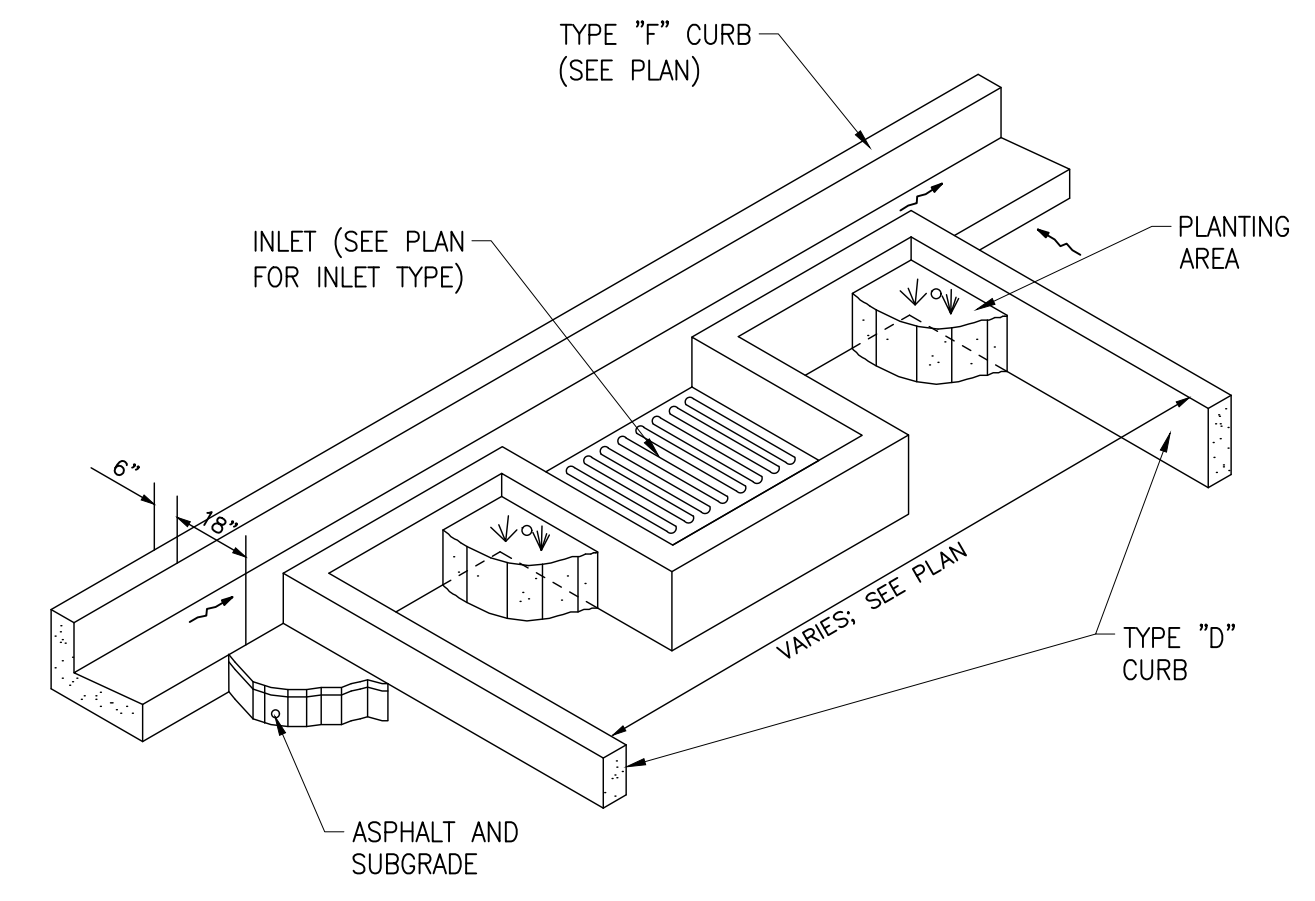
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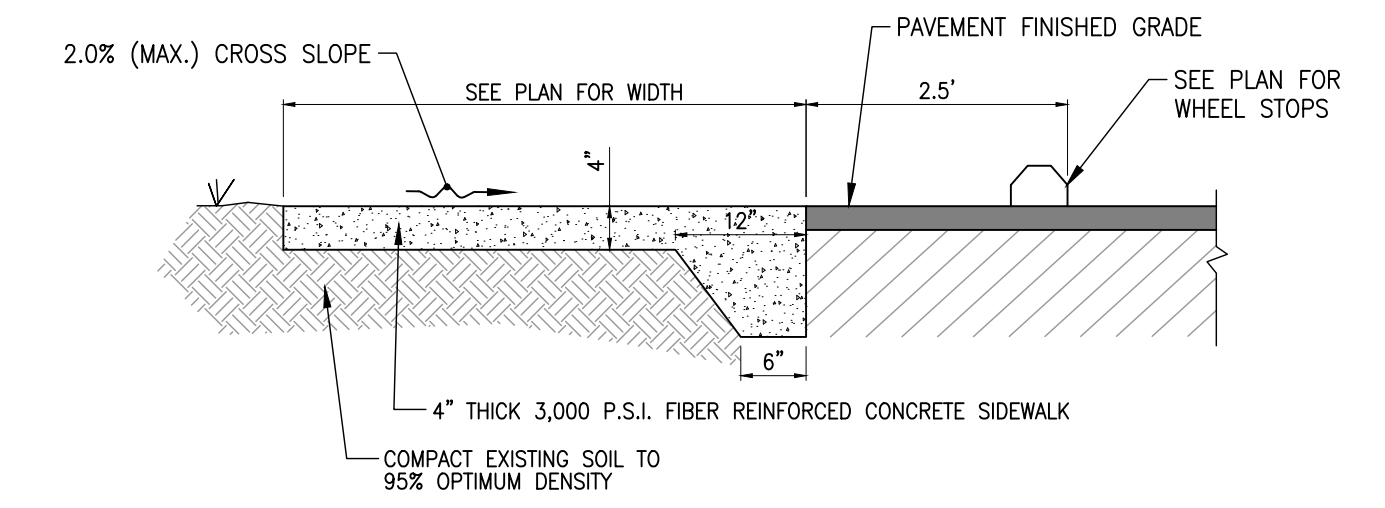
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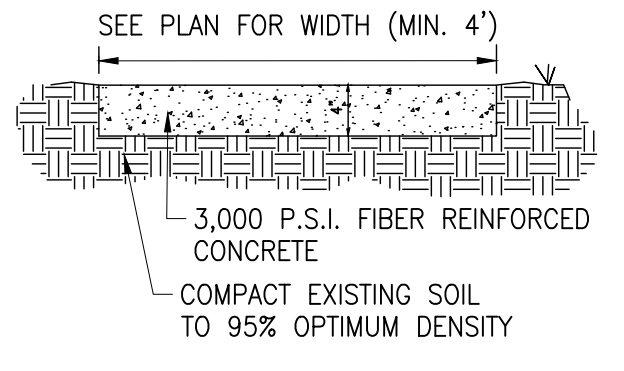
3/7/23



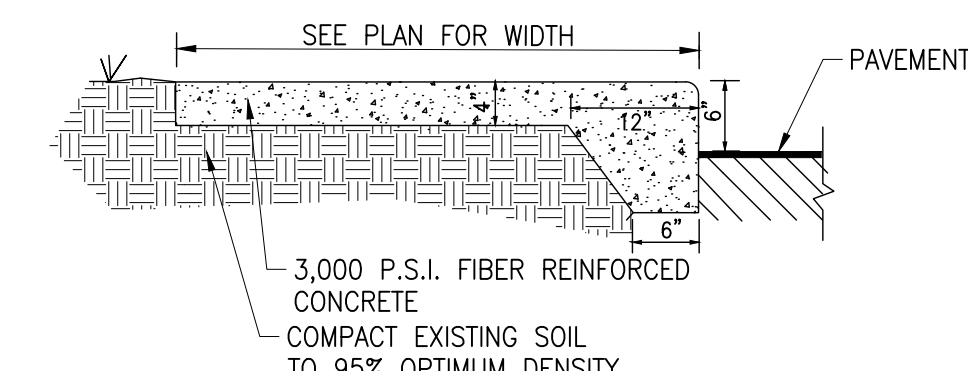
CURBED ISLAND FLOW THROUGH DETAIL  
N.T.S.



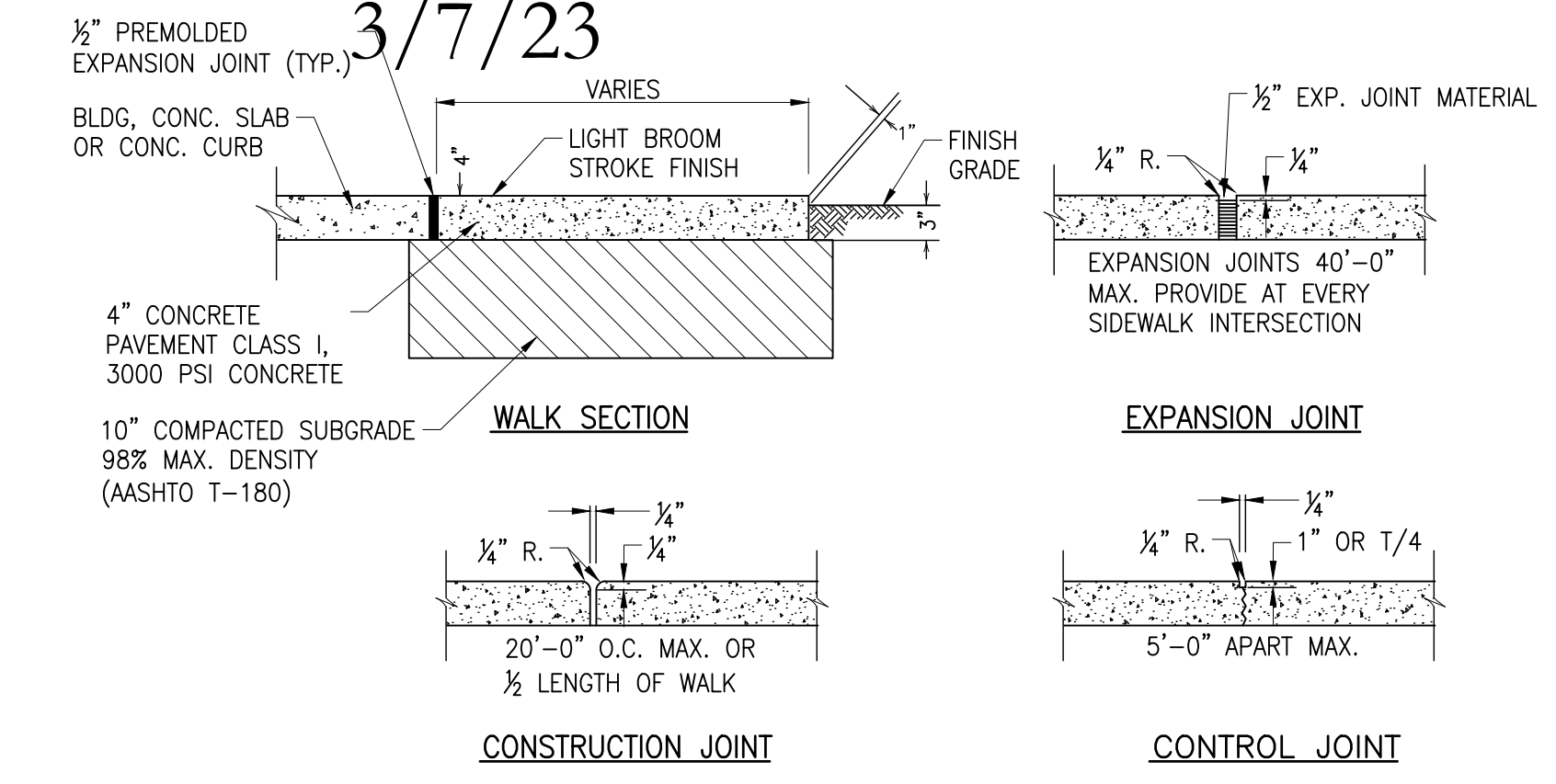
MONOLITHIC SIDEWALK FLUSH WITH PAVEMENT  
N.T.S.



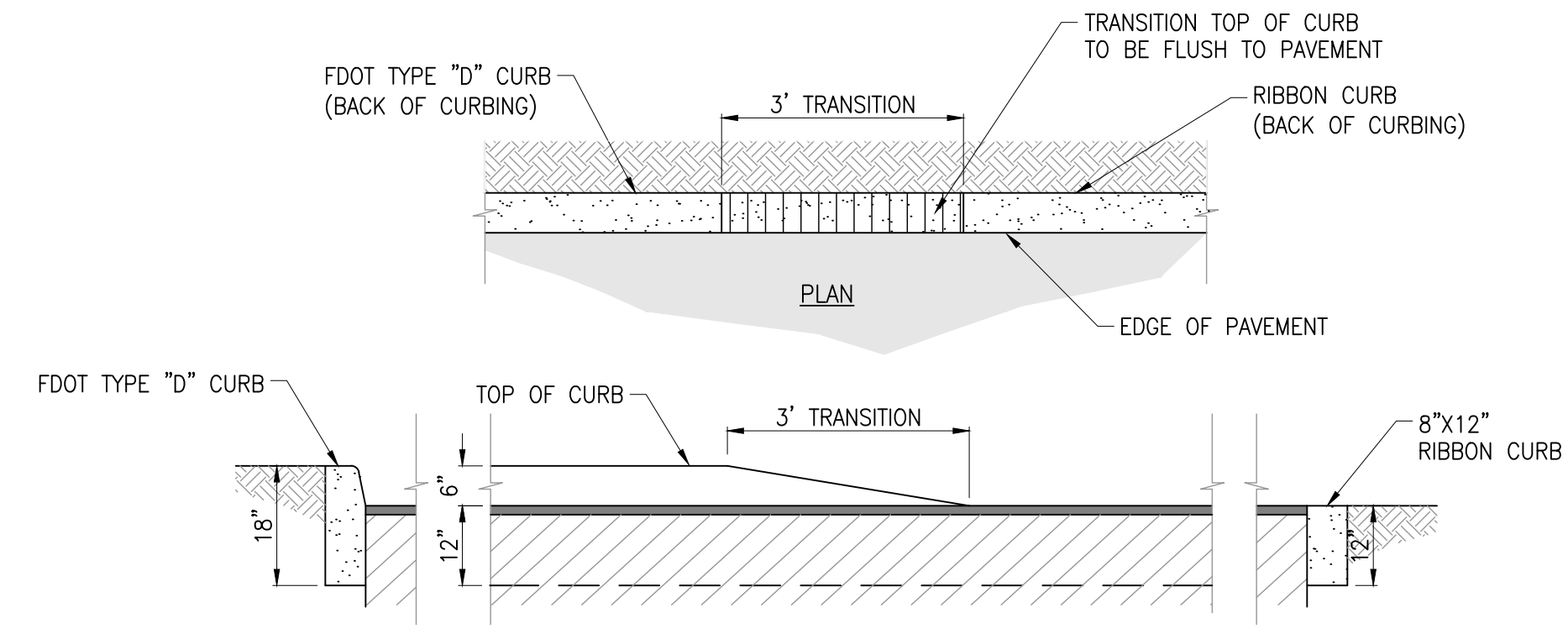
SIDEWALK DETAIL  
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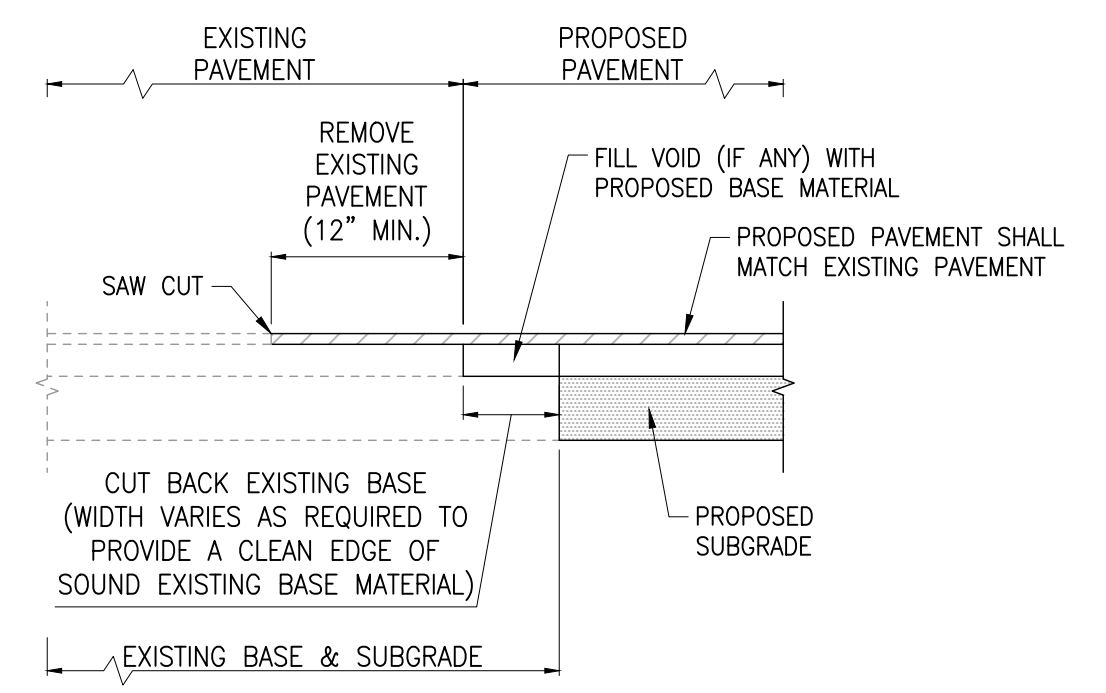
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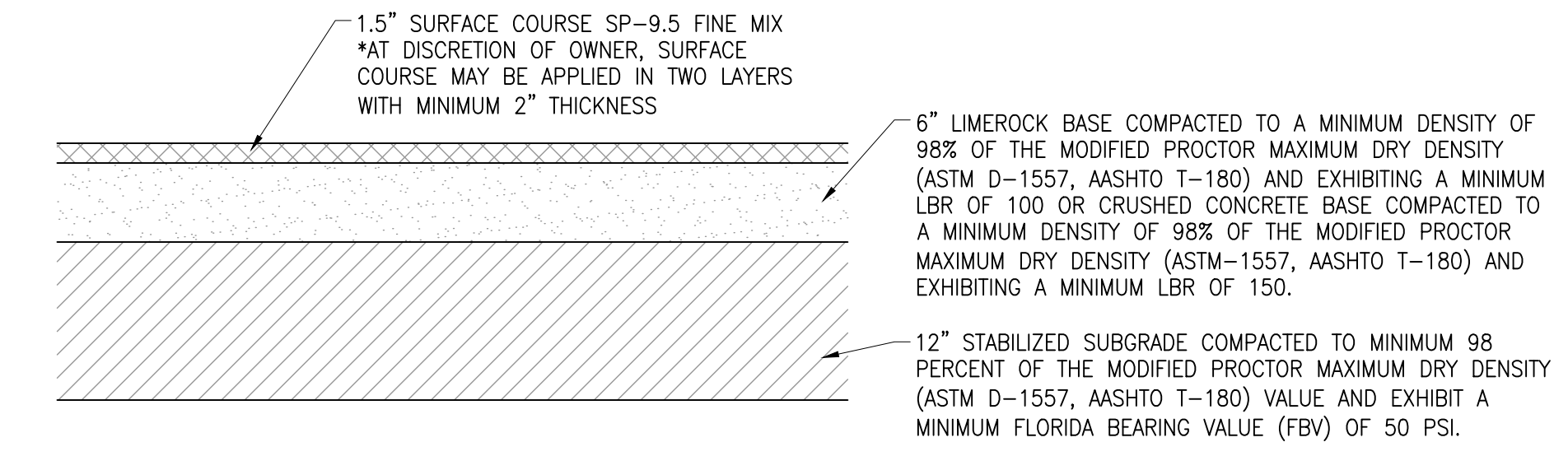
SIDEWALK JOINT DETAIL  
N.T.S.



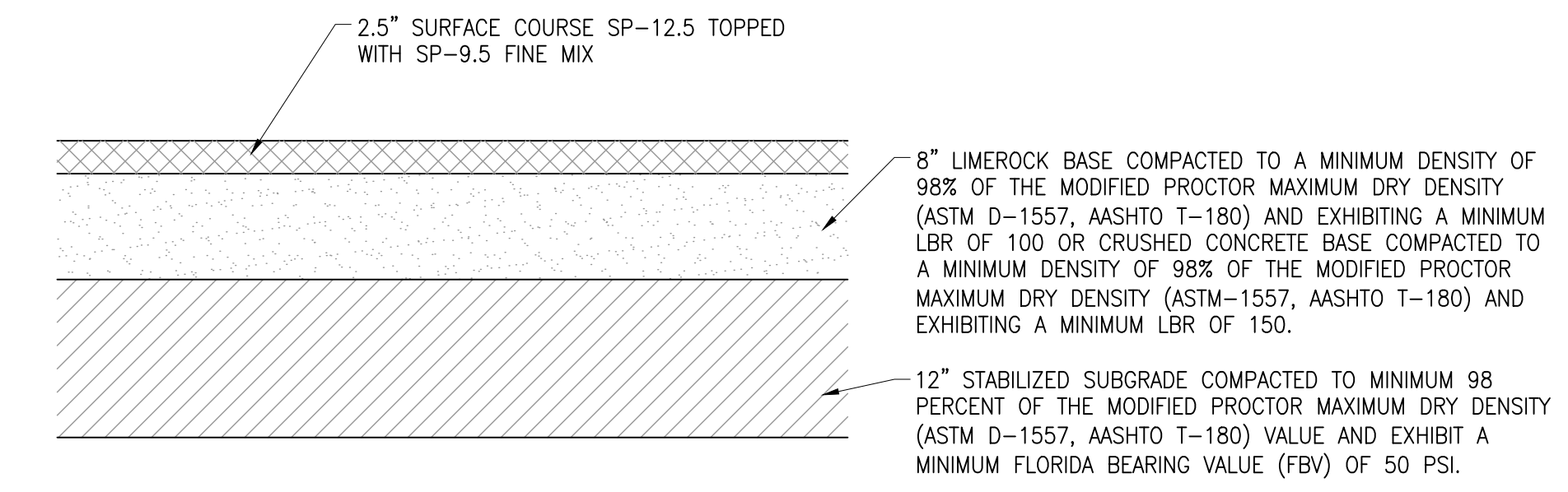
TYPE "D" TO GRADE TRANSITION DETAIL  
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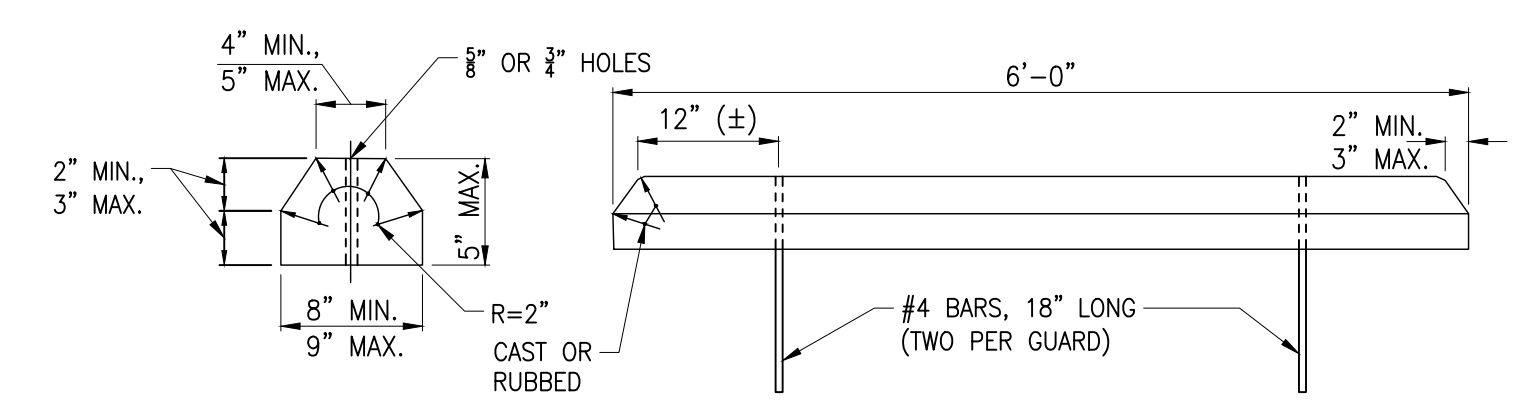
PAVEMENT ABUTMENT DETAIL  
N.T.S.



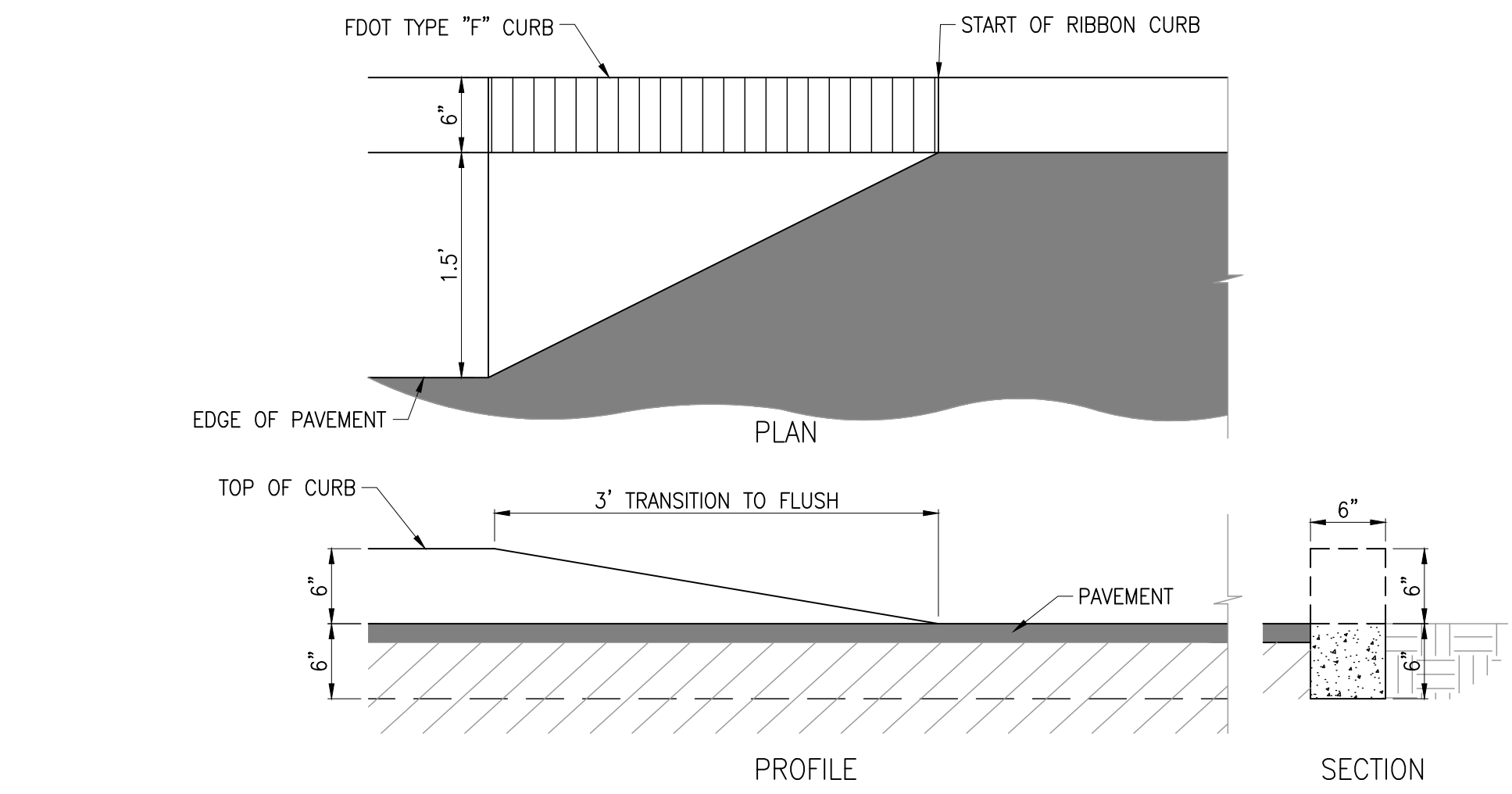
STANDARD LIGHT DUTY ASPHALT PAVEMENT SECTION  
N.T.S.



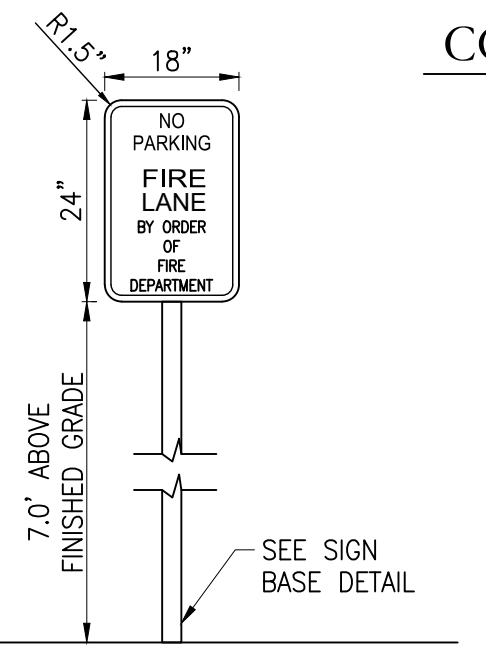
STANDARD HEAVY DUTY ASPHALT PAVEMENT SECTION  
N.T.S.



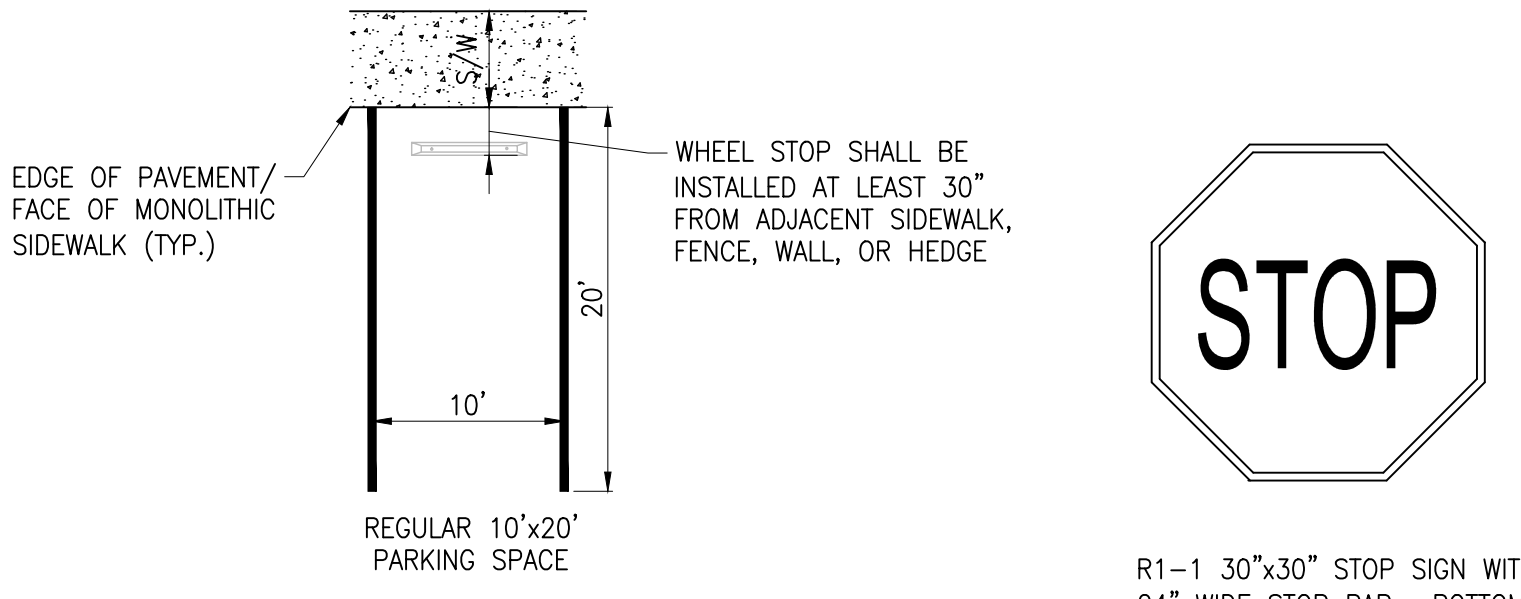
CONCRETE WHEEL STOP DETAIL  
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TYPE "F" TO PAVEMENT TRANSITION DETAIL  
N.T.S.



FIRE LANE SIGN DETAIL  
N.T.S.



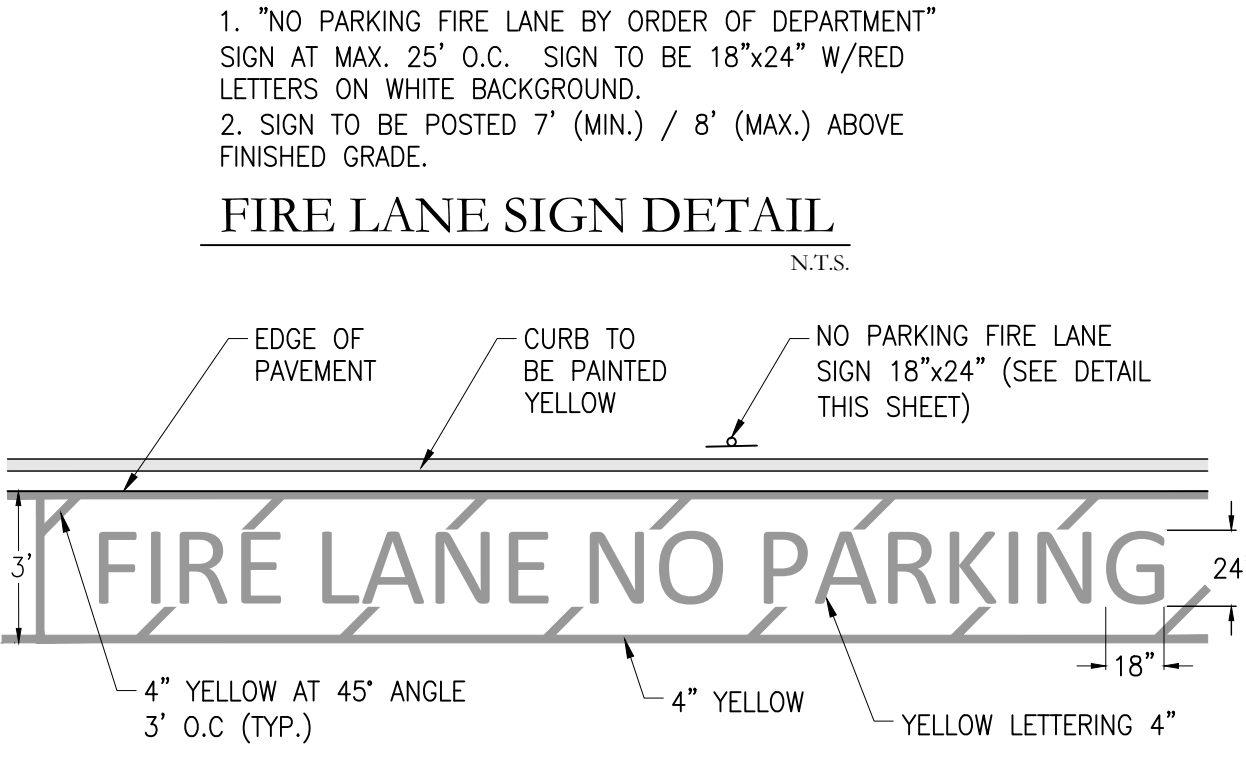
SEE FDOT INDEX 17346 FOR STRIPING SPECIFICATIONS AND COLOR

SCHEMATIC PARKING DIAGRAM  
N.T.S.

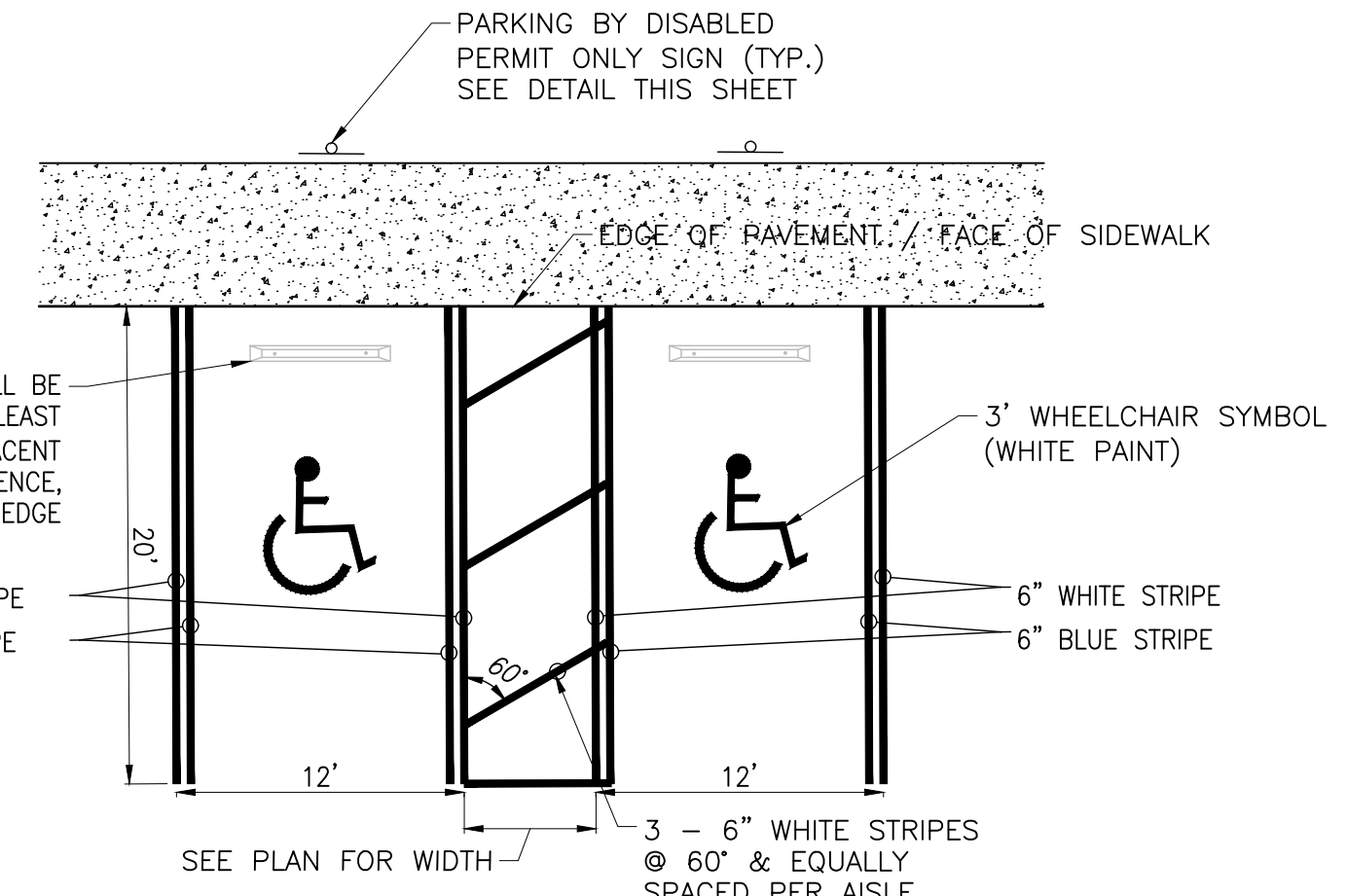


R1-1 30"x30" STOP SIGN WITH 24" WIDE STOP BAR. BOTTOM OF SIGN A MINIMUM 7" HIGH. 24" WIDE STOP BAR PER DETAIL PER MUTCD

STOP SIGN DETAIL  
N.T.S.



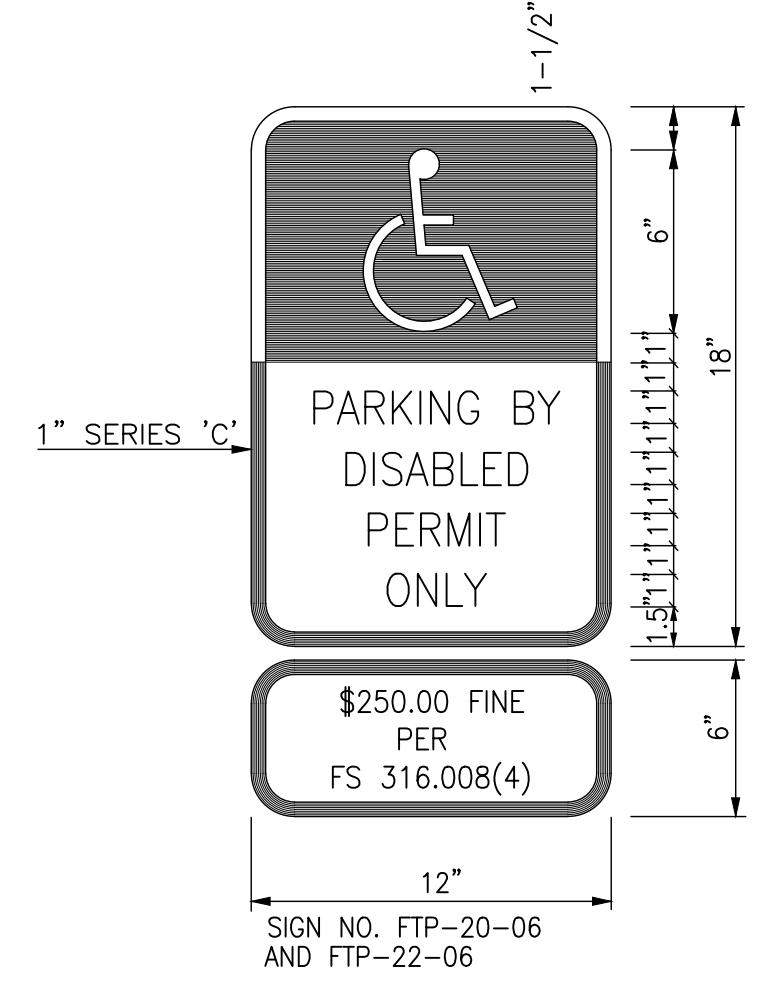
FIRE LANE STRIPING DETAIL  
N.T.S.



SEE FDOT STANDARD PLANS 711-001 FOR STRIPING SPECIFICATIONS AND COLOR

1. ALL PAVEMENT MARKINGS INSTALLED WITH SLIP RESISTANT PAINT

ACCESSIBLE STRIPING SCHEMATIC  
N.T.S.



- NOTES:
- TOP PORTION OF FTP-20-06 SHALL HAVE REFLECTIVE BLUE BACKGROUND WITH WHITE REFLECTIVE SYMBOL AND BORDER (PER FDOT INDEX 17355).
  - BOTTOM PORTION OF FTP-20-06 SHALL HAVE A REFLECTIVE WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER (PER FDOT INDEX 17355).
  - SIGNS ARE TO BE MOUNTED AT STANDARD HEIGHT (7' FROM PAVEMENT TO BOTTOM OF SIGN).

ACCESSIBLE SIGN DETAIL  
N.T.S.

Consultant:

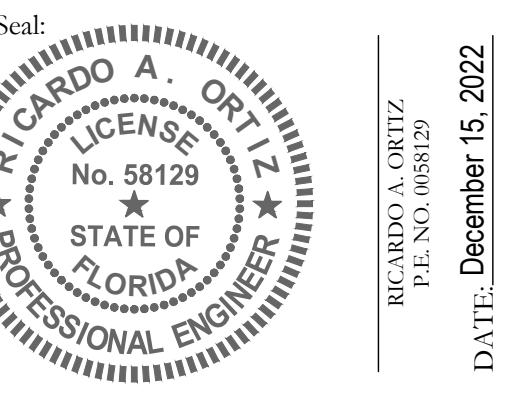
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**CONDEV HILLS OF MINNEOLA PUD - AREA 5, POD 19**

Jurisdiction:  
CITY OF MINNEOLA, FL

Sheet Title:  
**CONSTRUCTION DETAILS**

Sheet No.:  
**C6.10**




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1. THE CITY'S PUBLIC SERVICES DEPARTMENT SHALL BE NOTIFIED 48 HOURS PRIOR TO BEGINNING ANY WATER SYSTEM'S CONSTRUCTION.
2. PRIOR TO TAKING ANY WATER LINES OUT OF SERVICE, THE CONTRACTOR SHALL NOTIFY THE CITY AND AFFECTED CUSTOMERS, IN WRITING, 48-HOURS PRIOR TO SHUTDOWN.
3. WATER MAINS SHALL BE PVC AWWA CLASS C-900, MINIMUM CL-150 (DR-18) DUCTILE IRON PIPE PRESSURE RATING FOR PIPE SIZES 4" - 12". PVC PIPES 14" OR LARGER SHALL BE AWWA CLASS C-905 (DR-21). ALL COUPLINGS, COMPOUNDS, SOLVENTS, LUBRICANTS AND PIPE PREPARATION FOR LAYING SHALL BE IN ACCORDANCE WITH THE PIPE MANUFACTURER'S LATEST RECOMMENDATIONS.
4. ALL WATER MAINS SHALL BE NSF APPROVED AND BEAR THE "NSF" SEAL FOR POTABLE WATER USE, AND HAVE A MINIMUM OF 36 INCHES OF COVER (MAXIMUM COVER OF 60 INCHES). IN SPECIAL CASES WHERE IT IS IMPOSSIBLE TO PROVIDE ADEQUATE COVER, DUCTILE IRON PIPE OR ENCASEMENT MAT BE USED AS APPROVED BY THE CITY AND FDEP.
5. DE-WATERING SHALL BE PROVIDED TO KEEP GROUND WATER ELEVATION A MINIMUM OF 6 INCHES BELOW PROPOSED WATER MAIN.
6. ALL WATER MAINS SHALL BE INSTALLED ON A FIRM FOUNDATION WITH ALL UNSUITABLE MATERIAL (MUCK, ROCK, COQUINA, ETC.) REMOVED AND REPLACED WITH CLEAN GRANULAR MATERIAL.
7. TRENCHES SHALL BE BACK FILLED WITH MATERIAL ACCEPTABLE TO THE CITY, WITH A MINIMUM COMPACTION OF 98% (AASHTO T-180) IN PAVED AREAS AND 95% (AASHTO T-180) IN UNPAVED AREAS.
8. IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT TRENCH COMPACTION TESTS BE PROVIDED AT POINTS 1 FOOT ABOVE THE PIPE AND AT 2 FEET VERTICAL INTERVALS TO FINISH GRADE AT A MINIMUM SPACING OF EVERY 300 FEET. RESULTS OF TESTING MUST BE PROVIDED TO THE CITY.
9. AS STANDARD PRACTICE, WATER MAINS SHALL BE INSTALLED 5 FEET OFF THE BACK OF THE CURB ON THE OPPOSITE SIDE OF THE RECLAIMED WATER LINES OR AS APPROVED BY THE CITY.
10. ALL WATER MAINS UNDER PAVEMENT SHALL BE DUCTILE IRON AND SHALL EXTEND 5 FEET OFF THE BACK OF CURB.
11. ALL SLEEVES UNDER PAVEMENT SHALL EXTEND 5 FEET BEYOND THE BACK OF CURB.
12. PIPE WARNING TAPE SHALL BE LOCATED 18 INCHES BELOW FINISH GRADE FOR ALL PIPES. PIPE IDENTIFICATION TAPE SHALL BE PROVIDED ON ALL PIPES.
13. WATER VALVES SHALL BE PLACED AT ALL STREET INTERSECTIONS AND AT MAXIMUM SPACING OF 1,000 FEET FOR RESIDENTIAL SERVICE (500' FOR COMMERCIAL, MULTIFAMILY AND INDUSTRIAL). AT ALL WATER TEES AND CROSSES, VALVES SHALL BE INSTALLED ON ALL BRANCHES.


	GENERAL WATER NOTES	W-1.1
	CITY OF MINNEOLA	Not To Scale November 2017

14. APPROVED WATER VALVE TYPES ARE THE FOLLOWING:
  - A. BRASS BALL-TYPE VALVE FOR VALVES LESS THAN 2" DIAMETER.
  - B. STANDARD GATE VALVES 2" AND LARGER DIAMETER, RESILIENT WEDGE GATES VALVES(AWWA C-509)
  - C. TAPPING VALVES WITH MECHANICAL TAPPING SLEEVE FOR SIZE ON SIZE STAINLESS STEEL OR EPOXY COATED SLEEVE WITH STAINLESS STEEL BOLTS AND NUTS FOR OTHERS.
15. ALL POTABLE WATER VALVE BOXES SHALL ADJUSTED TO FINISH GRADE AND THE CAPS SHALL BE PAINTED BLUE TO MAKE THEM PLAINLY VISIBLE. VALVES NOT IN PAVEMENT MUST HAVE 24"x24"x4" CONCRETE COLLAR.
16. WATER VALVES SHALL BE COMPLETELY OPENED BY THE CITY WATER/WASTEWATER DIVISION, IN THE PRESENCE OF THE CONTRACTOR, PRIOR TO FINAL ACCEPTANCE OF ANY NEW WATER SYSTEM.
17. MEGALUGS, SPLIT-RESTRAINED BOLTLESS RESTRAINED JOINTS, OR GRIPPER GASKETS MAY BE USED ON ALL PIPES NOT MEETING REQUIRED COVER REQUIREMENTS SHALL FOLLOW THE MOST RECENT DIPRA THRUST RESTRAINT DESIGN GUIDELINES.
18. ALL WATER SERVICES SHALL BE MARKED ALONG THE OUTSIDE EDGE OF CURB WITH UPSIDE-DOWN "W" OR BY METAL TABS SET INTO PAVEMENT. VALVES FOR WATER SHALL BE MARKED BY A "V" OR METAL TABS SET INTO THE PAVEMENT. BLOW-OFFS SHALL BE MARKED WITH A "B".
19. ALL SINGLE RESIDENTIAL WATER SERVICES SHALL BE MINIMUM 1" AND DOUBLE RESIDENTIAL SERVICES SHALL BE MINIMUM 1-1/2" BLACK OR BLUE POLYETHYLENE TUBING. POLYBUTYLENE SHALL NOT BE USED.
20. WATER SERVICES SHOULD BE DOUBLE 1-1/2" SERVICES LOCATED AT SIDE LOT LINES, ALTERNATING WITH RECLAIMED WATER SERVICE LOCATIONS. IN INSTANCES WHERE WATER SERVICES NEED TO BE OFFSET, 1" SERVICES SHALL BE SPECIFIED. THESE SERVICES MAY BE OFFSET FROM THE LOT LINE A MAXIMUM DISTANCE OF 5.0 FEET.
21. ALL WATER SERVICE ENDINGS SHALL BE MARKED BY 2"x4" LUMBER (PRESSURE TREATED). ALL SERVICE SHALL EXTEND 6 INCHES ABOVE GRADE, SECURED TO THE BASE OF THE LUMBER. ALL SERVICES MUST BE ADJUSTED TO FINAL METER BOX LOCATION BY OWNER PRIOR TO INITIAL METER INSTALLATION.
22. WATER DISTRIBUTION SYSTEM SHALL BE DESIGNED TO COMPLY WITH THE CITY'S FIRE (WATER) FLOW CODE.
23. HYDRANT LOCATION AND SPACING SHALL BE AS PER THE CITY'S LAND DEVELOPMENT CODE.
24. BLUE REFLECTORS SHALL BE SECURELY AFFIXED TO ROADWAY (CENTER LINE OF ROAD) ADJACENT TO HYDRANT LOCATION.

	GENERAL WATER NOTES	W-1.2
	CITY OF MINNEOLA	Not To Scale November 2017

25. ALL FIRE HYDRANTS SHALL BE CONSTRUCTED TO MAKE THEM EASILY ACCESSIBLE TO FIRE PERSONNEL IN CASE OF FIRE. THE MAIN NOZZLE SHOULD ALWAYS FACE THE STREET AND BE 18"-22" ABOVE GRADE.
26. OUT-OF-SERVICE FIRE HYDRANTS MUST BE CLEARLY MARKED (RED RING ON NOZZLE, LABELED DISK ON NOZZLE) FACING ROADWAY.
27. WATER SYSTEMS WILL BE PRESSURE TESTED AT 150 PSI STATIC PRESSURE FOR A PERIOD OF 2 HOURS PER AWWA STANDARDS.
28. ALL WATER MAINS TO BE CLEARED FOR SERVICE SHALL BE FLUSHED, DISINFECTED, PRESSURE TESTED, AND BACTERIOLOGICALLY CLEANSED FOR SERVICE, IN ACCORDANCE WITH THE LATEST AWWA STANDARDS AND CHAPTER 62-555 FLORIDA ADMINISTRATIVE CODE.
29. UPON CONSTRUCTION COMPLETION AND ACCEPTANCE OF THE SYSTEM, IT SHALL BE THE DESIGN ENGINEER'S RESPONSIBILITY TO INSURE THAT THE SYSTEM IS PROPERLY CERTIFIED AND ACCEPTED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION OR THE CITY PUBLIC SERVICES AND "AS-BUILTS" ARE PROVIDED TO THE CITY ENGINEER, PRIOR TO ANY USE OF THIS SYSTEM.

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3/7/23

	GENERAL WATER NOTES	W-1.3
	CITY OF MINNEOLA	Not To Scale November 2017

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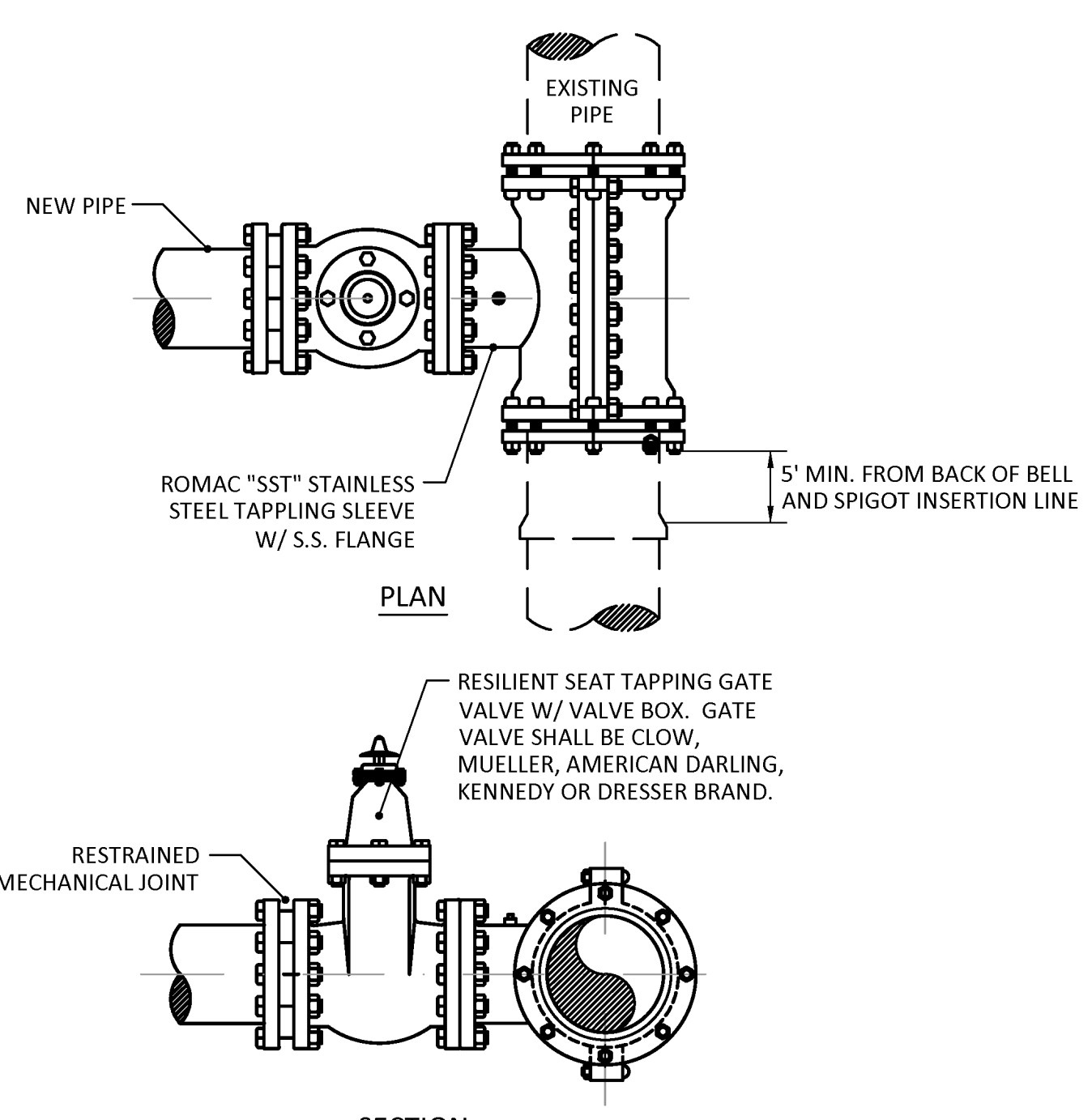
Project Name:  
**CONDEV  
HILLS OF  
MINNEOLA PUD  
- AREA 5, POD 19**

Jurisdiction:  
CITY OF MINNEOLA, FL


Sheet Title:  
**CITY OF MINNEOLA  
STANDARD  
WATER DETAILS**

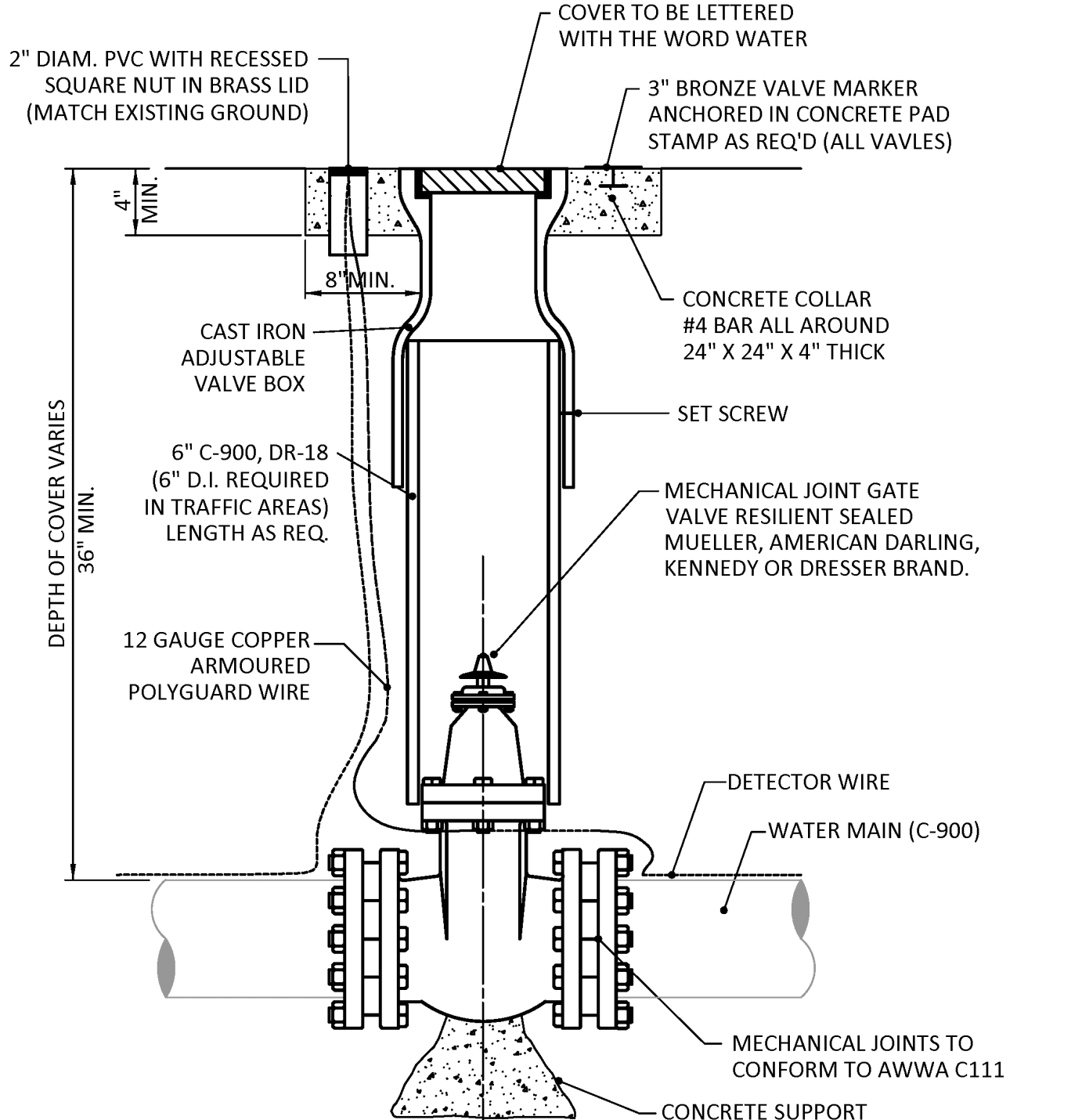
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**C6.20**

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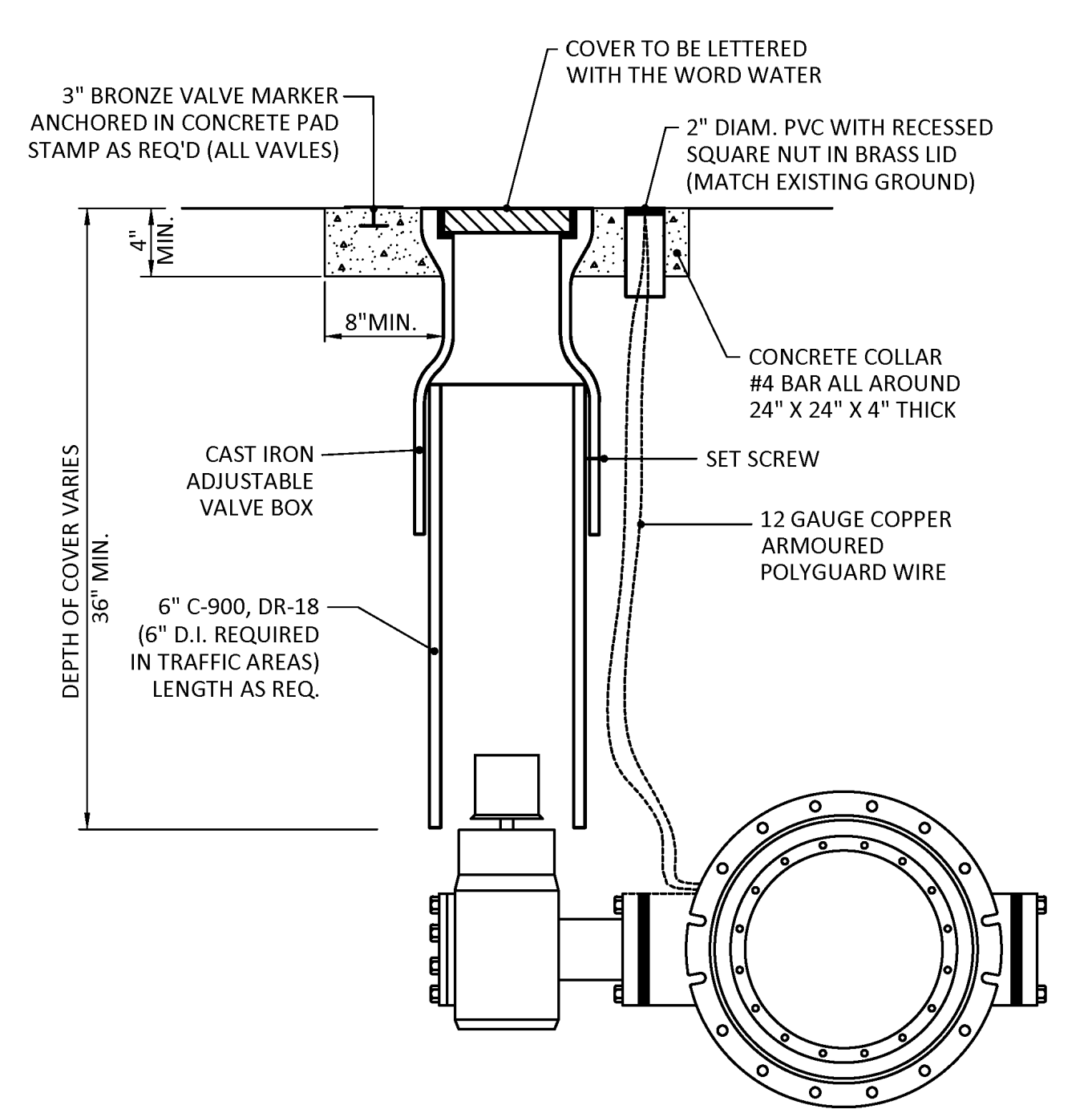
- NOTES:
1. SIZE ON SIZE WET TAPS WILL CALL FOR FULL ENCIRCLEMENT STAINLESS STEEL MJ TAPPING SLEEVE.
  2. ALL NEWLY INSTALLED TAPPING SLEEVES AND TAPPING VALVES SHALL BE PNEUMATICALLY PRESSURE TESTED AT A TEST PRESSURE OF 150 PSI FOR A PERIOD OF 30 MINUTES.

	WET TAP TIE-IN DETAIL - WATER MAIN	W-2
	CITY OF MINNEOLA	Not To Scale November 2017




- NOTE:
1. EXTENSION STEM WITH 2" SQ. WRENCH NUT AND UPPER GUIDE IS REQUIRED FOR MORE THAN 4' DEPTH. BOX SHALL NOT REST ON PIPE.

	GATE VALVE & BOX	W-3
	CITY OF MINNEOLA	Not To Scale November 2017



- NOTE:
1. EXTENSION STEM WITH 2" SQ. WRENCH NUT AND UPPER GUIDE IS REQUIRED FOR MORE THAN 4' DEPTH. BOX SHALL NOT REST ON PIPE.

	BUTTERFLY VALVE & BOX	W-4
	CITY OF MINNEOLA	Not To Scale November 2017



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Sheet Title:  
**CITY OF MINNEOLA STANDARD WATER DETAILS**

Sheet No.:

**C6.21**

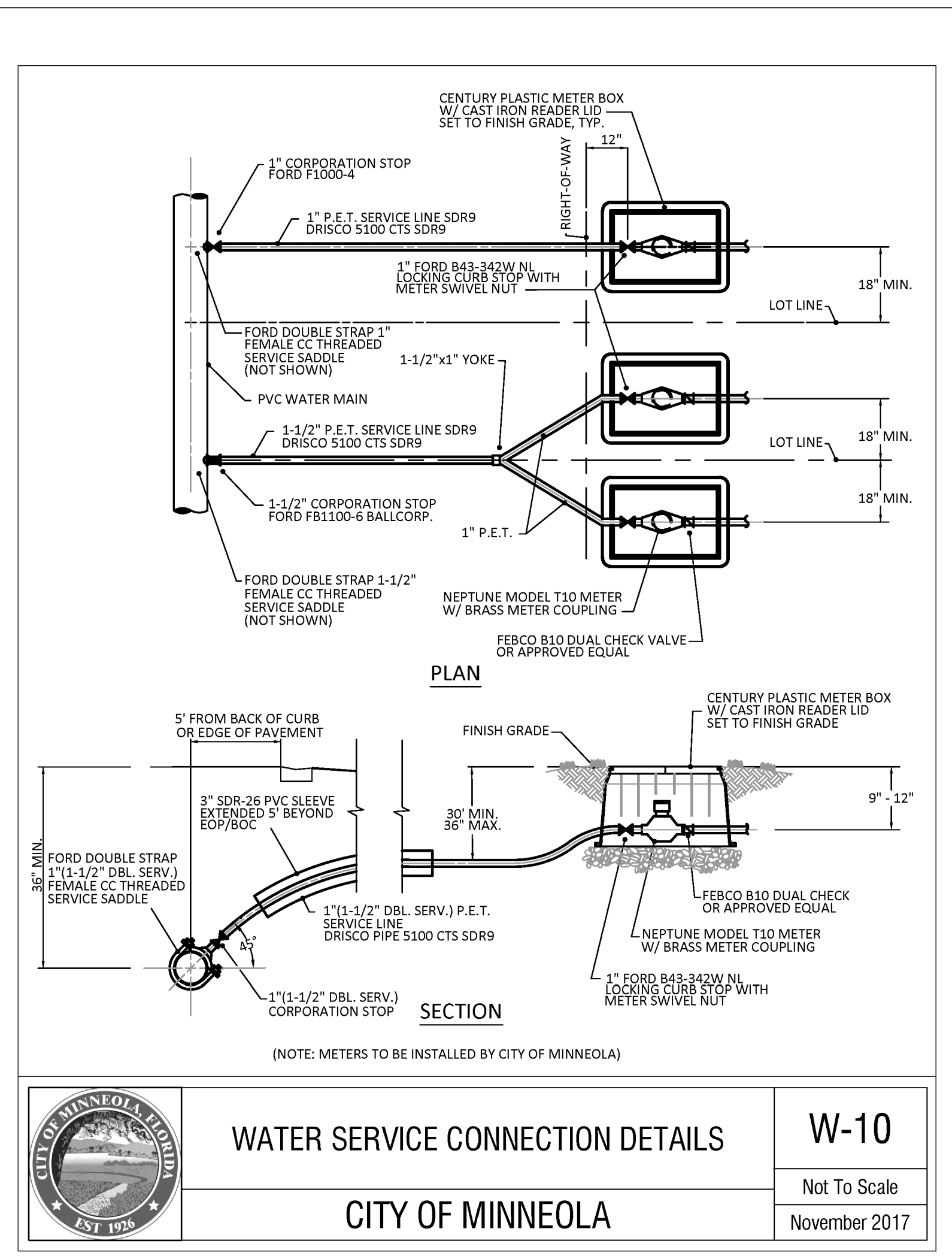
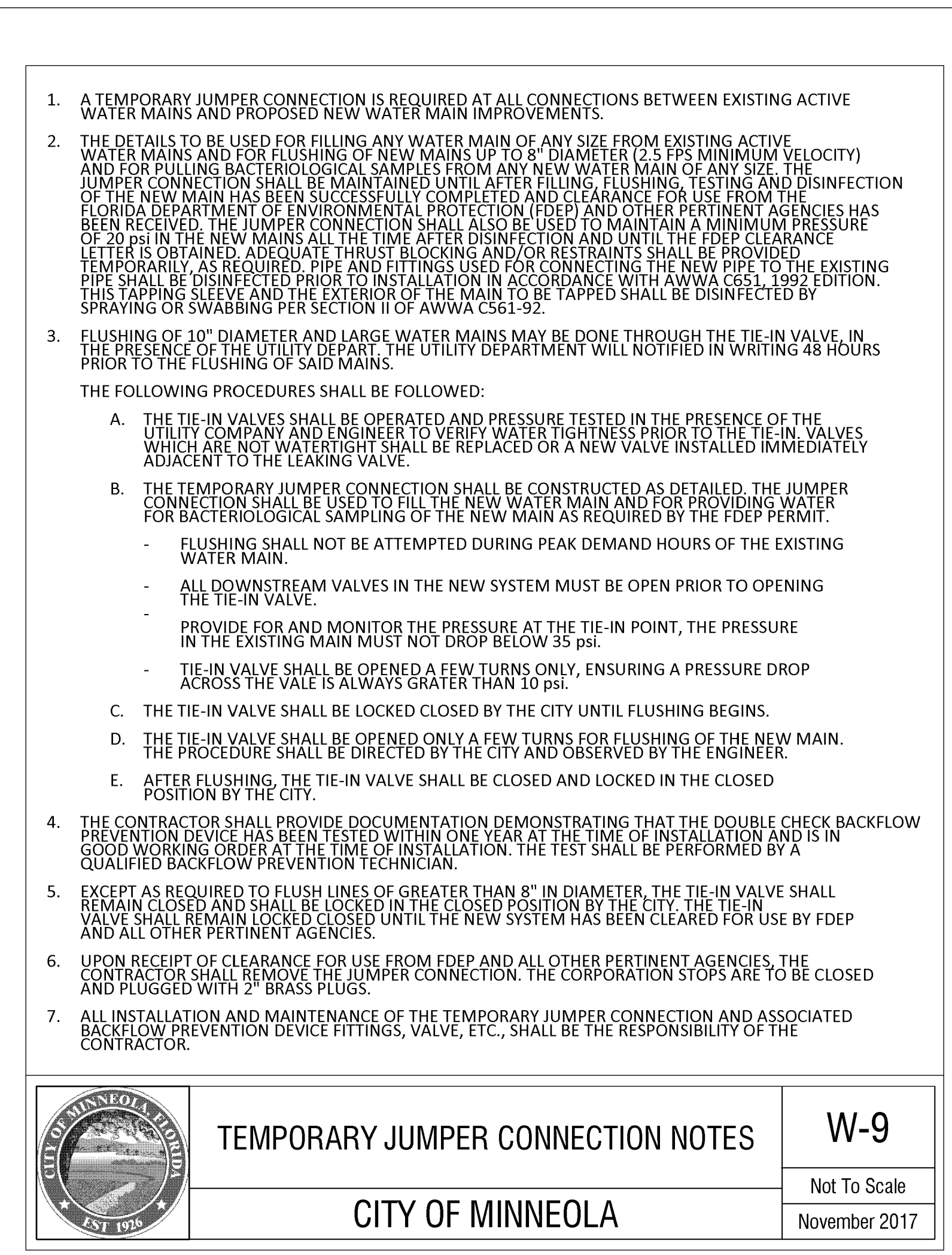
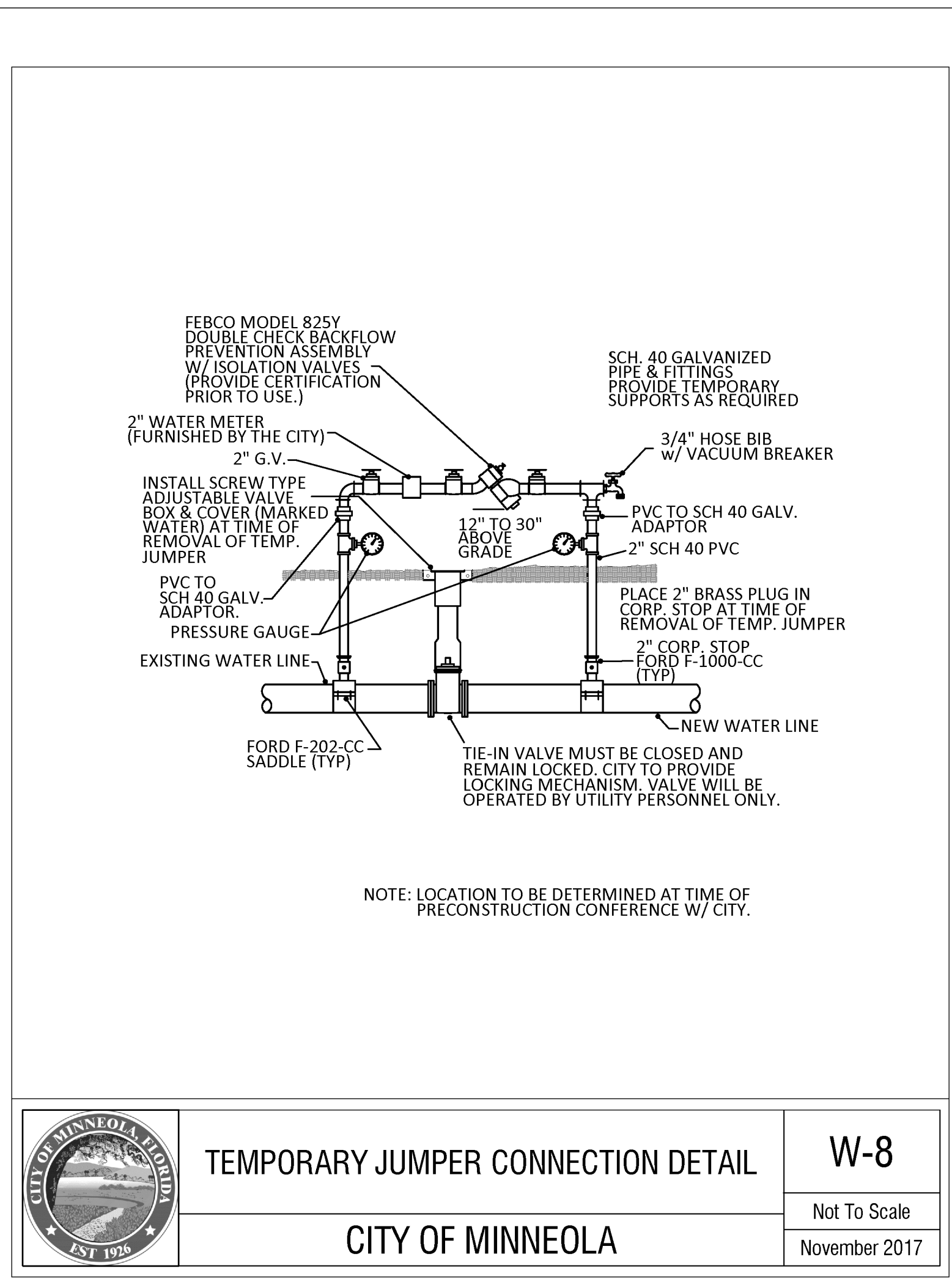
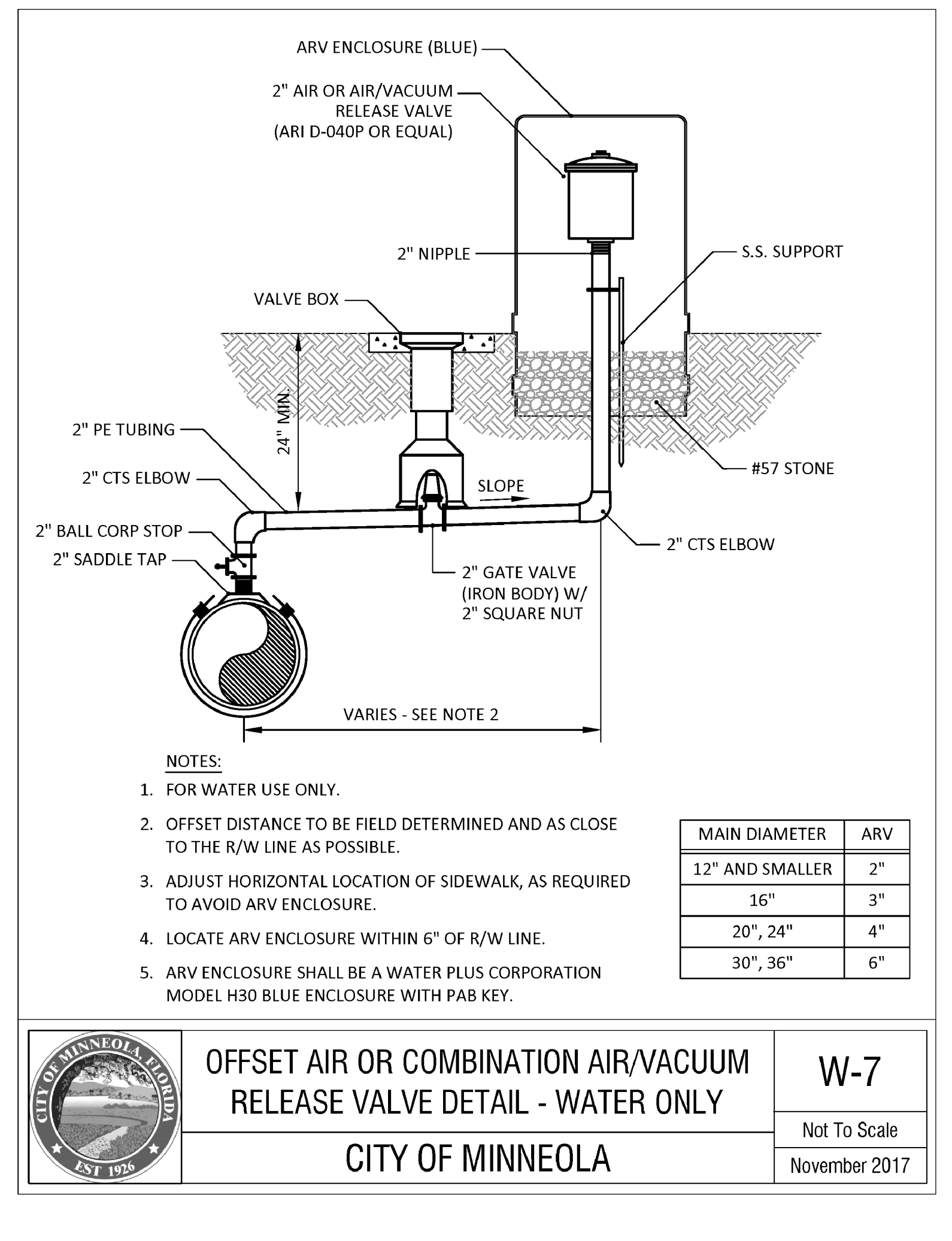
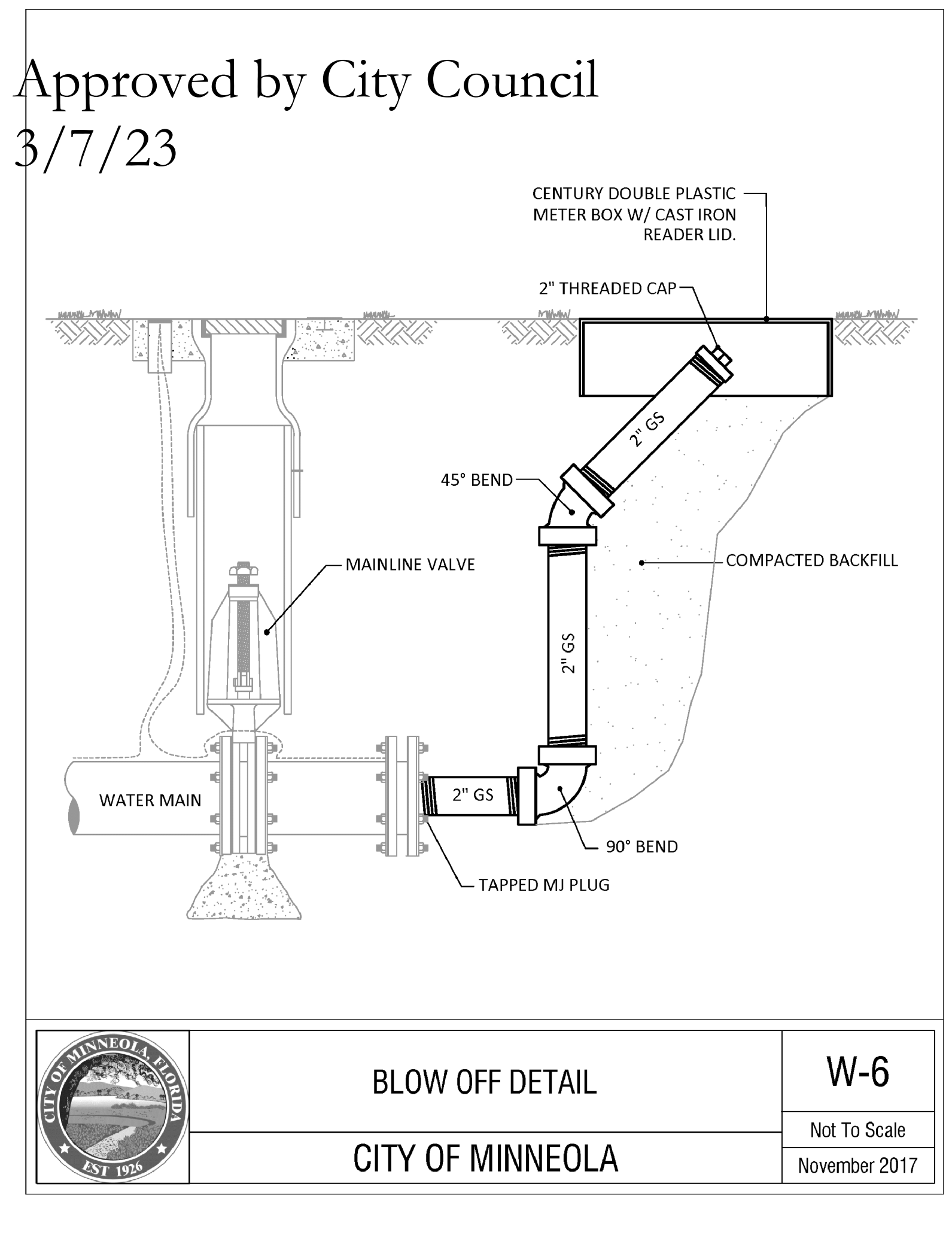
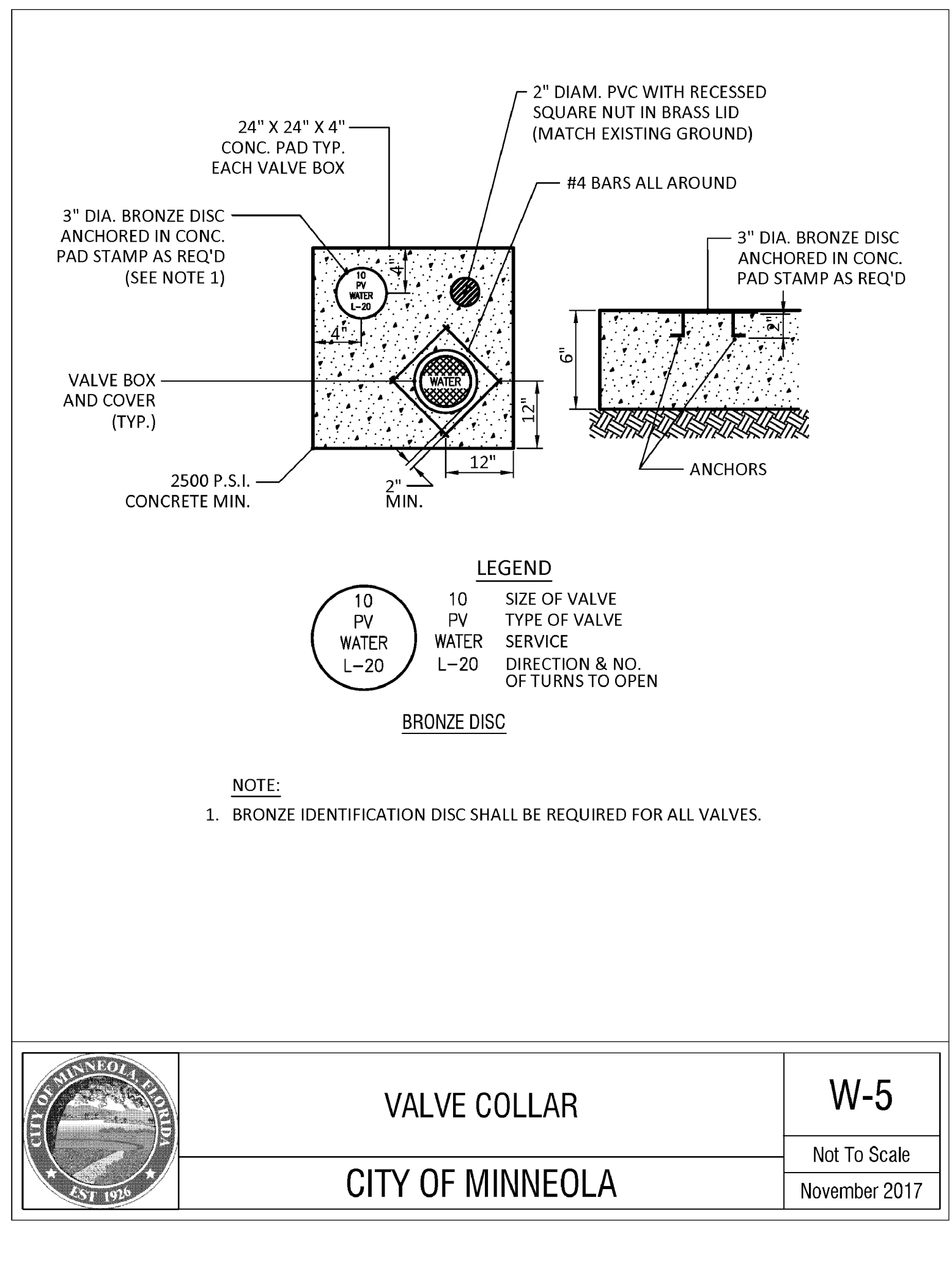
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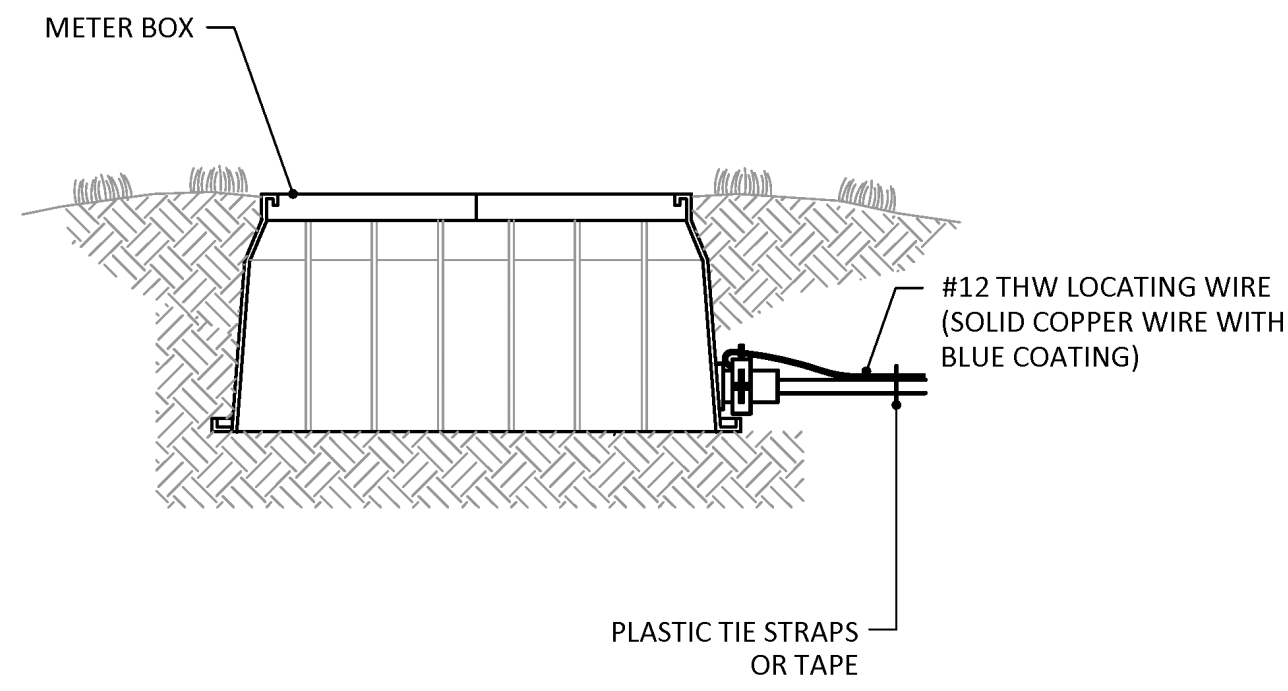
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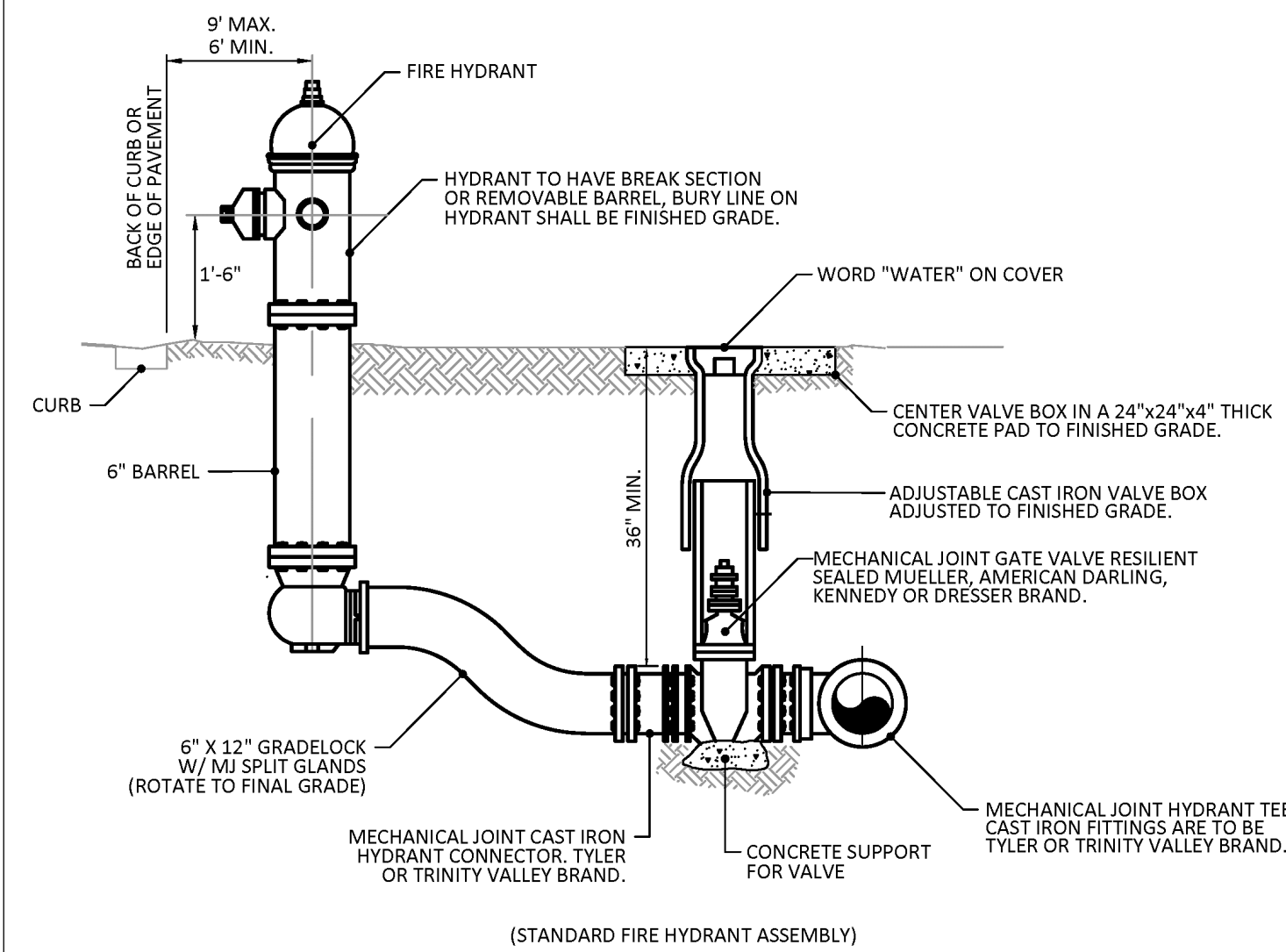


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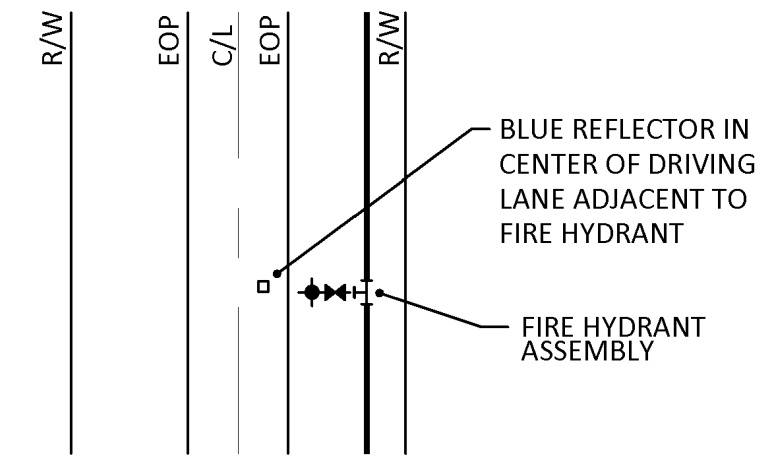
	SERVICE AND METER	W-11
	CITY OF MINNEOLA	Not To Scale November 2017



- NOTES
- HYDRANTS SHALL BE PLACED WITH PUMPER NOZZLES FACING STREET.
  - HYDRANTS SHALL BE FLOW TESTED BY CONTRACTOR. COORDINATE WITH CITY ENGINEER FOR TESTING PROCEDURES.
  - ALL HYDRANTS SHALL BE EQUIPPED WITH GRADE-LOK FITTINGS TO ALLOW FOR ELEVATION ADJUSTMENTS.
  - APPLY TWO COATS OF SHERMAN WILLIAMS OSHA SAFETY INDUSTRIAL YELLOW PAINT TO HYDRANT BARREL.
  - APPLY TWO COATS OF SHERMAN WILLIAMS OSHA SAFETY INDUSTRIAL ENAMEL PAINT TO THE BONNET AND NOZZLE CAPS. THE UTILITY DEPARTMENT INSPECTOR WILL DETERMINE THE COLOR TO PAINT THE HYDRANT BONNET AND NOZZLE CAPS BY FLOW TESTING HYDRANT.
- HYDRANT SPECIFICATIONS
- AWWA SPECIFICATIONS C-502
  - TWO 2-1/2" HOSE NOZZLE DISCHARGE
  - ONE 4-1/2" PUMPER NOZZLE DISCHARGE
  - ONE 1-1/2" OPERATING NUT, LEFT
- BLUE 1500 GPM OR MORE (SHERWIN WILLIAMS #SW4086)  
 GREEN 1000 GPM TO 1499 GPM (SHERWIN WILLIAMS #B54614)  
 ORANGE 500 GPM TO 999 GPM (SHERWIN WILLIAMS #B54E39)  
 RED 499 GPM OR LESS (SHERWIN WILLIAMS #B54R38)  
 YELLOW HYDRANT BARREL (SHERWIN WILLIAMS #B54Y37)

	FIRE HYDRANT ASSEMBLY	W-12
	CITY OF MINNEOLA	Not To Scale November 2017

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3/7/23



	FIRE HYDRANT REFLECTOR DETAIL	W-13
	CITY OF MINNEOLA	Not To Scale November 2017

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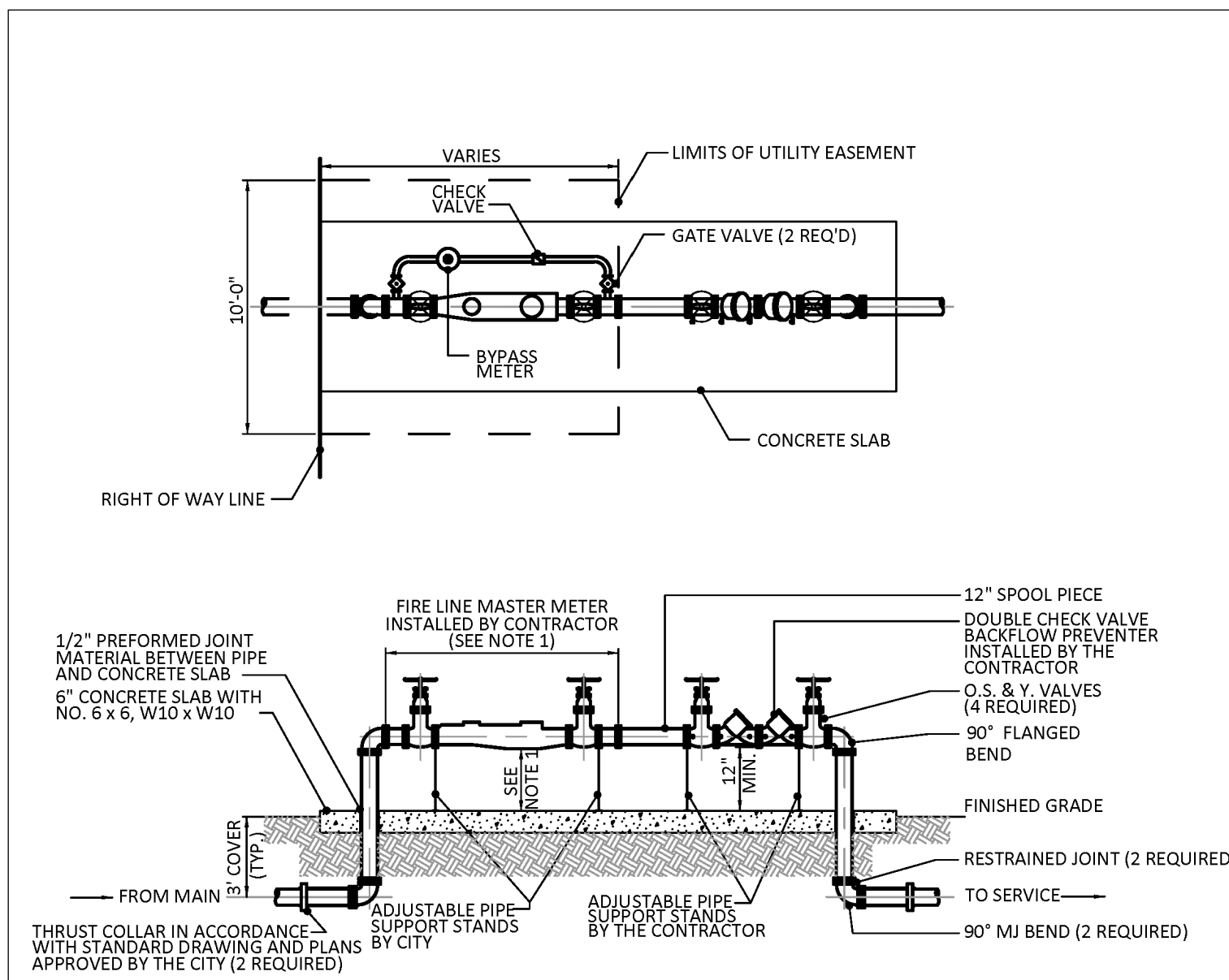
Project Name:  
**CONDEV HILLS OF MINNEOLA PUD - AREA 5, POD 19**

Jurisdiction:  
CITY OF MINNEOLA, FL

Sheet Title:  
**CITY OF MINNEOLA STANDARD WATER DETAILS**

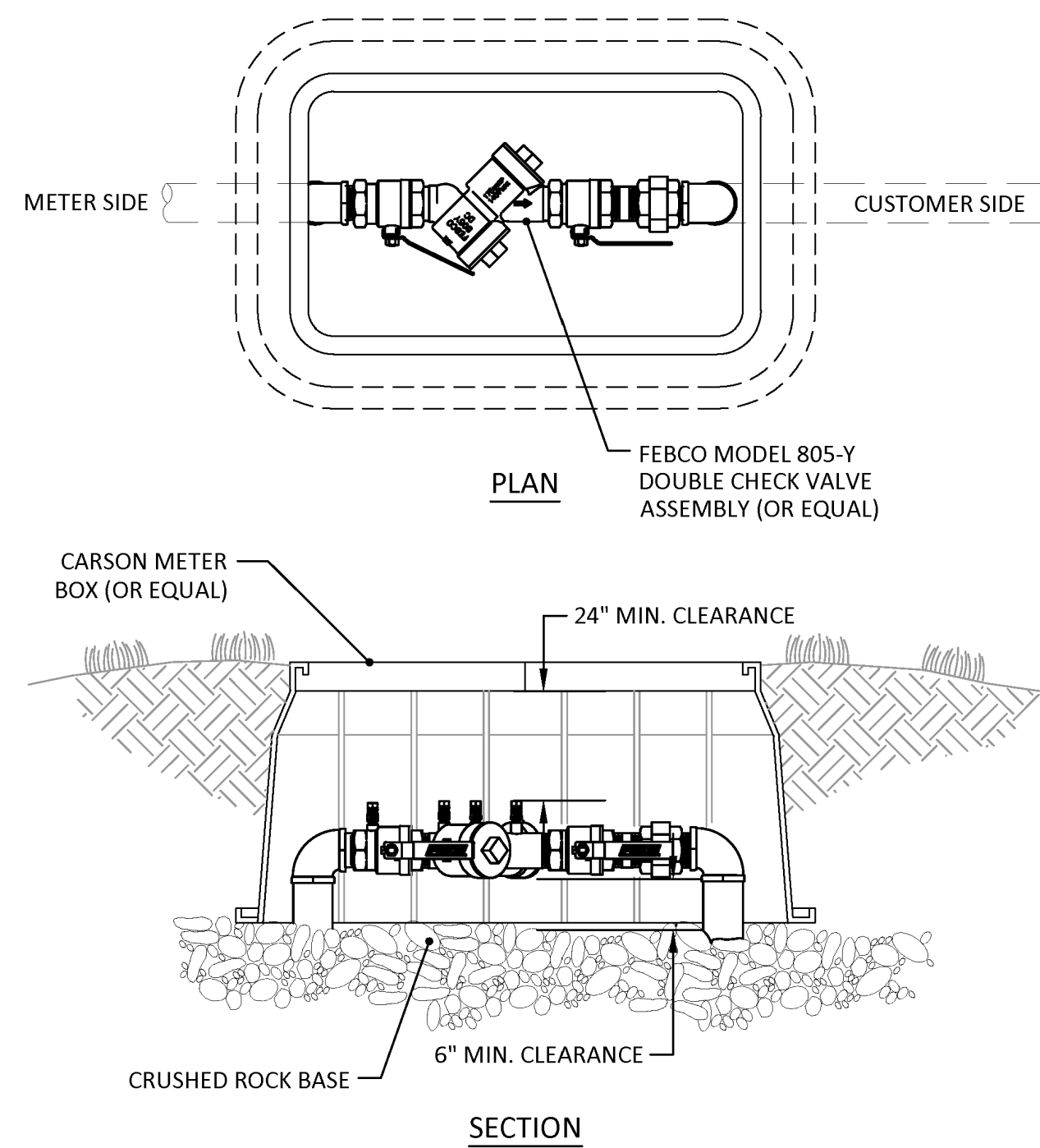
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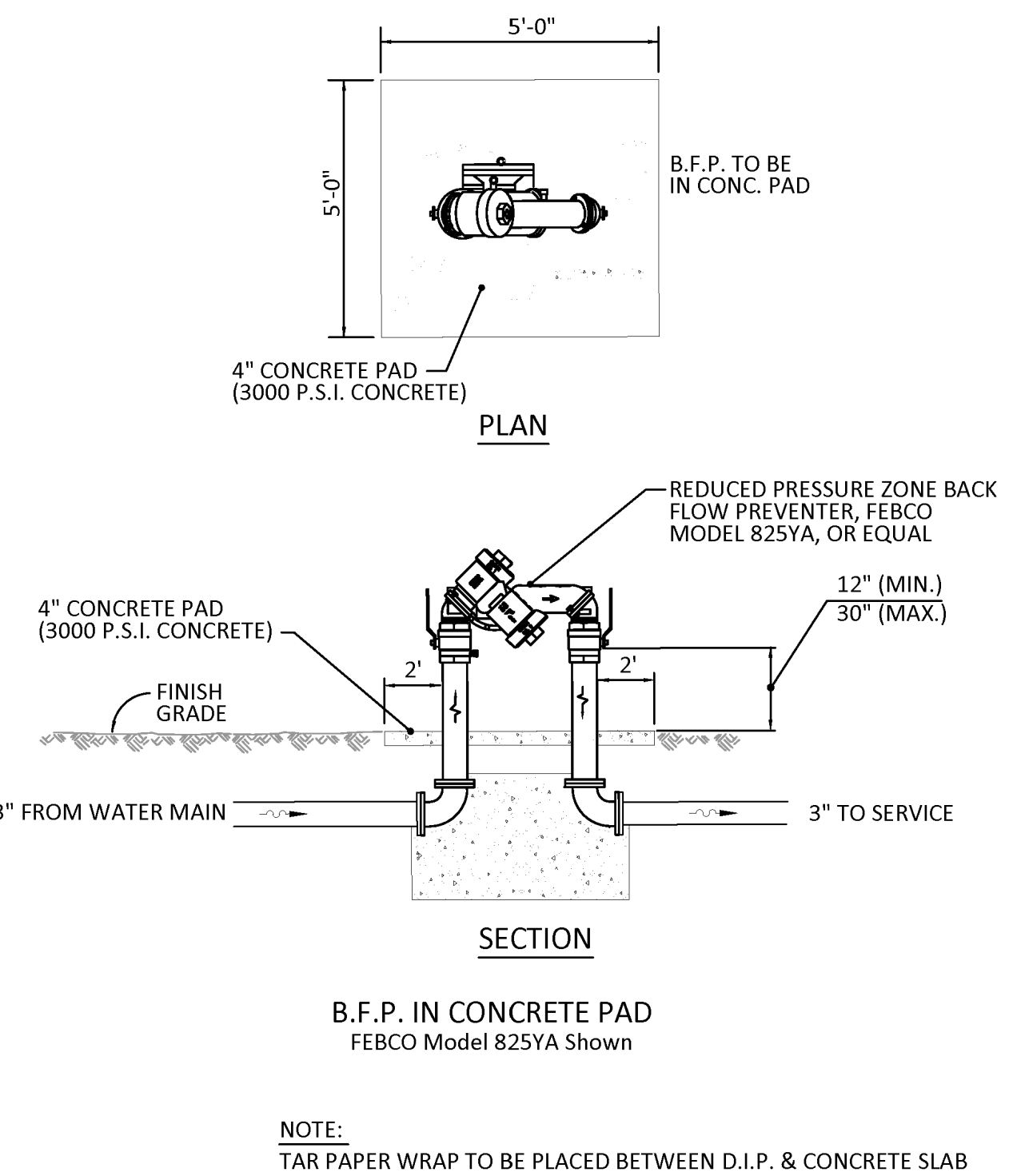
- NOTES:
- THE CONTRACTOR SHALL CONTACT THE INSPECTOR FOR EXACT ASSEMBLY LENGTH AND HEIGHT ABOVE THE SLAB REQUIRED FOR THE FIRE LINE MASTER METER TO BE INSTALLED BY THE CITY OF MINNEOLA. ALL OTHER PIPE, FITTINGS AND APPURTENANCES SHALL BE INSTALLED BY THE CONTRACTOR.
  - ALL THE ABOVE GROUND PIPE SHALL BE FLANGED DUCTILE IRON.

	FIRE LINE MASTER METER ASSEMBLY	W-14
	CITY OF MINNEOLA	Not To Scale November 2017



NOTE:  
INSTALLATION SHOWN IS ONLY A SUGGESTION. THE DISTANCE FROM THE BOTTOM OF DEVICE TO FINISH GRADE AND CLEARANCE FOR TESTING & REPAIR ARE THE MAJOR CONSIDERATIONS FOR INSTALLATION. BRASS PLUGS TO BE INSTALLED IN TEST COCKS OF BELOW GROUND INSTALLATIONS.

	1", 1 1/2", 2" & 2 1/2" DOUBLE CHECK INSTALLATION	W-15
	CITY OF MINNEOLA	Not To Scale November 2017



	REDUCED PRESSURE BACKFLOW PREVENTER	W-16
	CITY OF MINNEOLA	Not To Scale November 2017

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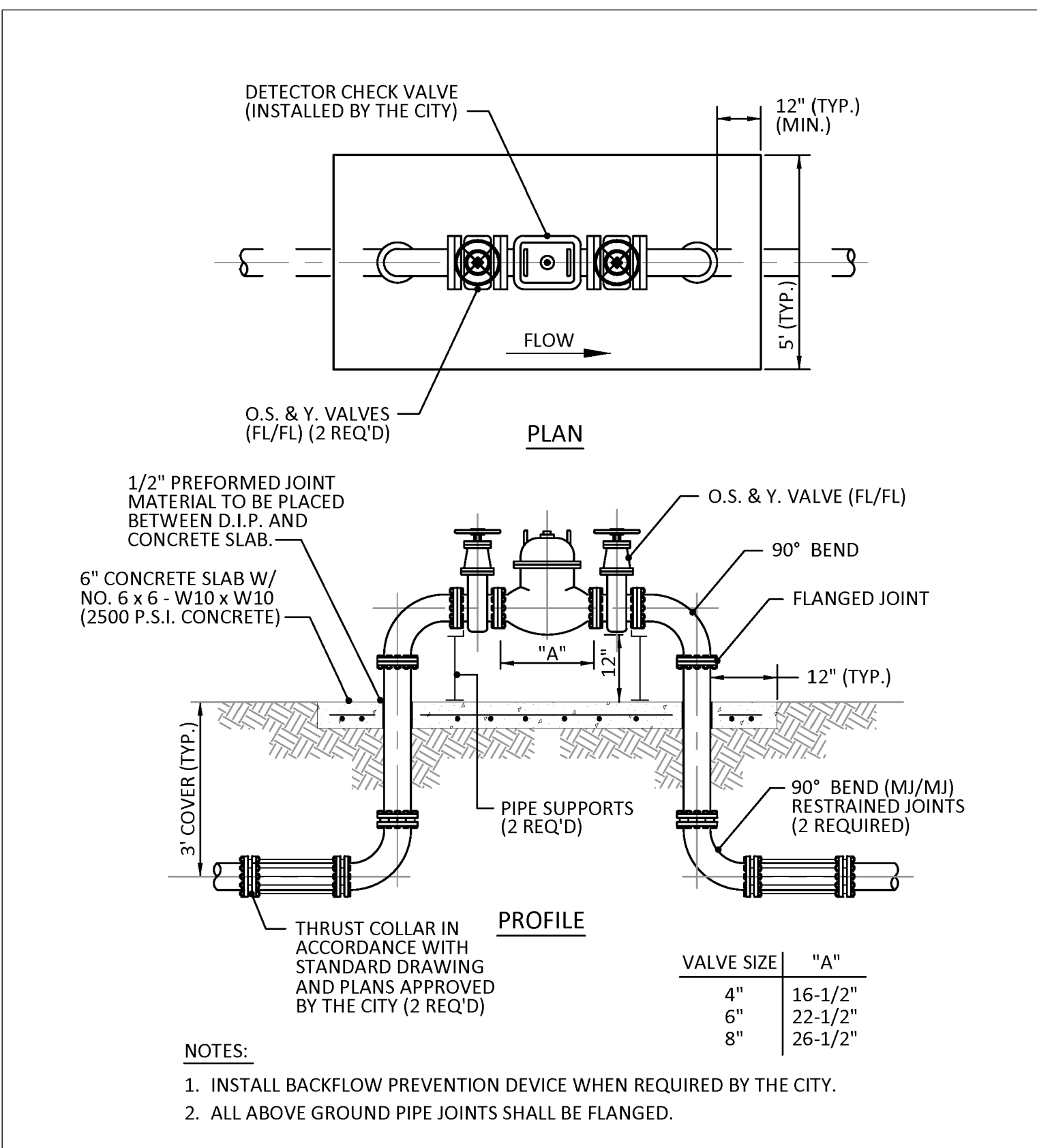
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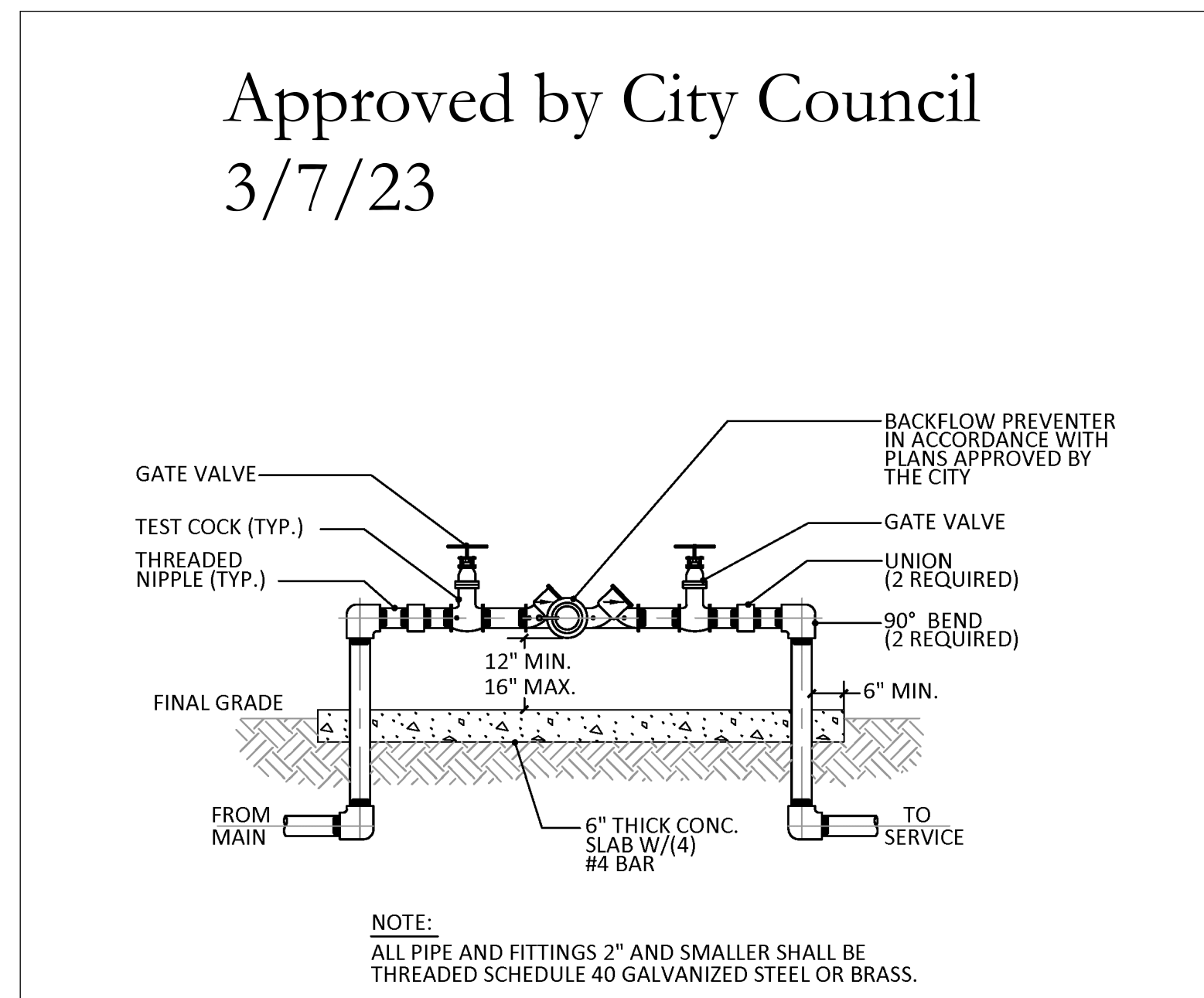
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**CITY OF MINNEOLA  
 STANDARD  
 WATER DETAILS**

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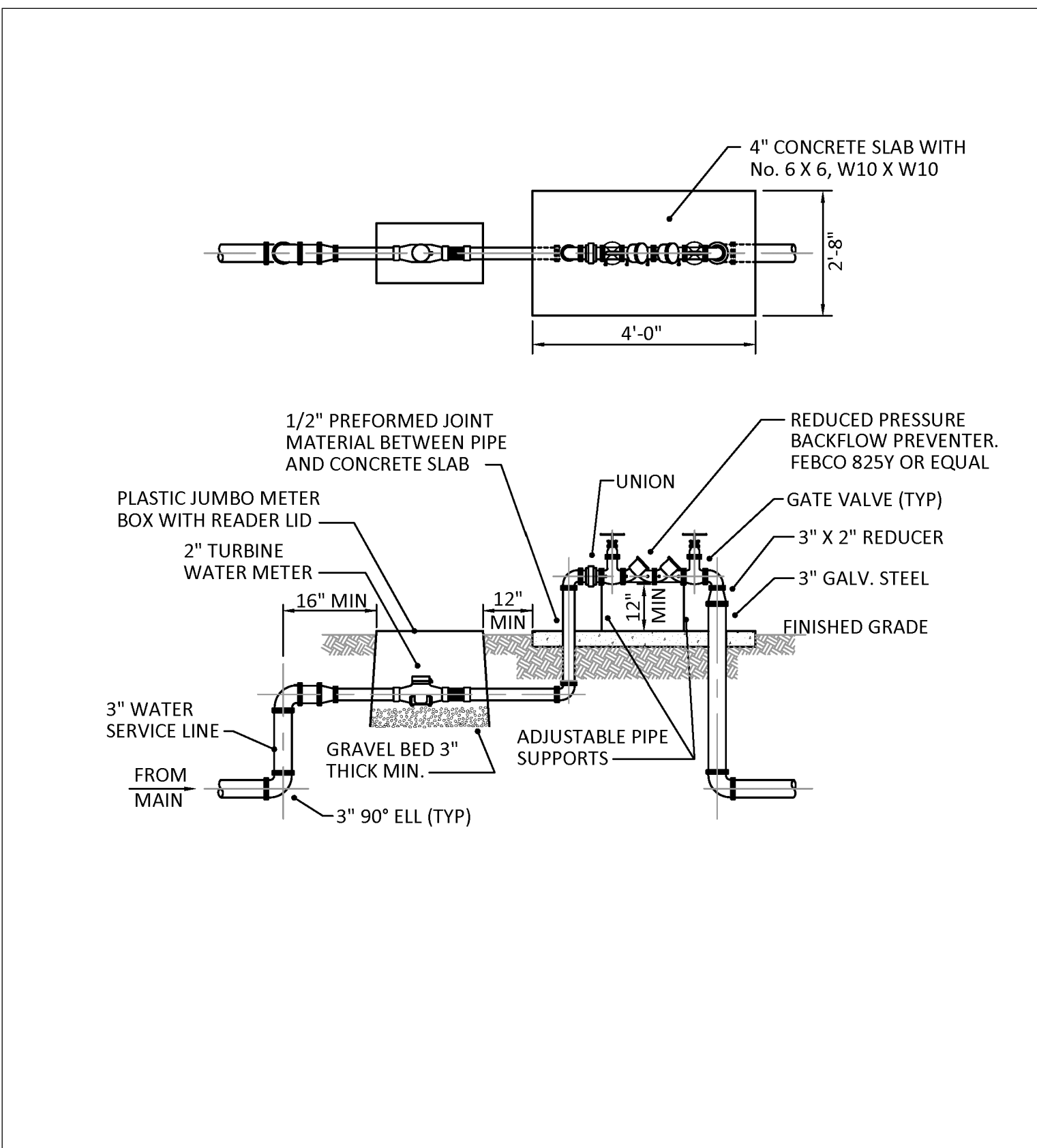
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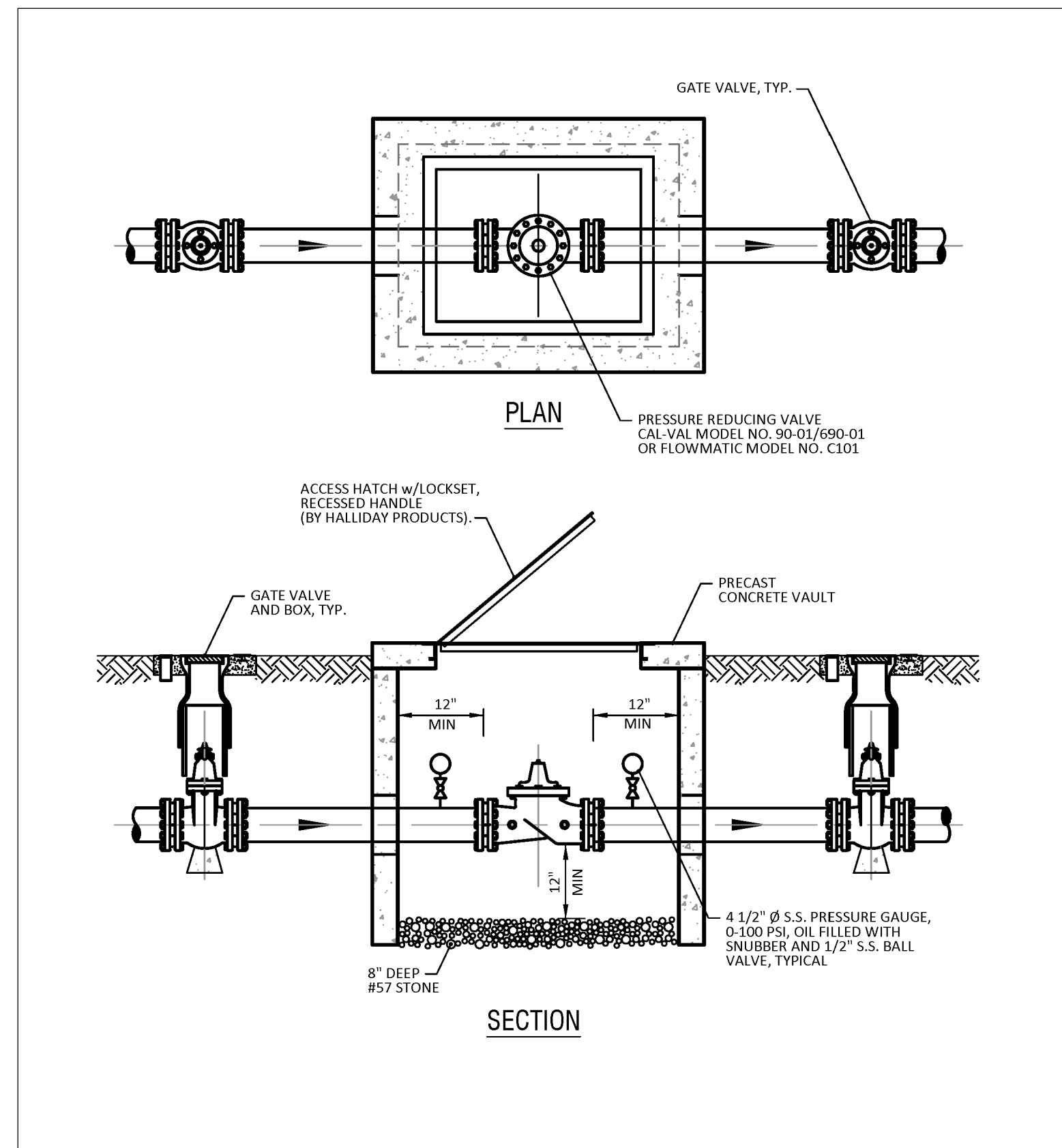
**DETECTOR CHECK VALVE ASSEMBLY** W-17  
 CITY OF MINNEOLA  
 Not To Scale  
 November 2017



**REDUCED PRESSURE  
 BACKFLOW PREVENTER** W-18  
 CITY OF MINNEOLA  
 Not To Scale  
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**WATER METER/BACKFLOW  
 PREVENTER ASSEMBLY** W-19  
 CITY OF MINNEOLA  
 Not To Scale  
 November 2017



**PRESSURE REDUCING VALVE** W-20  
 CITY OF MINNEOLA  
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**- MANHOLE NOTES -**

- DROP CONNECTIONS ARE REQUIRED WHENEVER INVERT OF INFLUENT SEWER IS 24" OR MORE ABOVE THE INVERT OF THE MANHOLE.
- DROP PIPE AND FITTINGS SHALL BE EQUAL IN SIZE TO THE INFLUENT SEWER.
- MANHOLE FRAME AND COVER SHALL BE NO. 195-E AS MANUFACTURED BY US FOUNDRY & MANUFACTURING OR APPROVED EQUAL.
- COVERS SHALL BE SET FLUSH IN PAVED AREAS AND 3 INCHES ABOVE GRADE IN UNPAVED AREAS.
- APPROVED CONCENTRIC CONE DESIGN MAY BE USED AS AN ALTERNATE.
- APPROVED FLAT SLAB TOP MAY BE USED AS AN ALTERNATE (6-INCH MINIMUM THICKNESS).
- PRECAST CONCRETE SHALL BE TREATED WITH AN ANTI-CORROSION ADDITIVE AT THE TIME OF FABRICATION. ADDITIVE SHALL BE CONSHIELD OR APPROVED EQUAL.

**MANHOLE SIZE**

MH DEPTH	A	B	C	D	E	F
UP TO 24" PIPE	48"	8"	24.5"	8"	AS REQ'D	8"
UP TO 36" PIPE	60"	8"	24.5"	8"	AS REQ'D	10"
OVER 36" PIPE	72"	8"	24.5"	8"	AS REQ'D	14"

MANHOLES DEEPER THAN 20' REQUIRE APPROVAL BY CITY.

**SANITARY PRECAST MANHOLE**

**CITY OF MINNEOLA**

**S-1**

Not To Scale

January 2019

**GRAVITY PIPE CONNECTION TO PRECAST SANITARY MANHOLE**

**CITY OF MINNEOLA**

**S-2**

Not To Scale

January 2019

**FLOW PATTERNS FOR INVERT CHANNELS**

**NOTES:**

- INVERT CHANNELS TO BE CONSTRUCTED FOR SMOOTH FLOW WITH NO OBSTRUCTIONS. HALF PIPE INVERT CHANNELS.
- SPILLWAYS SHALL BE CONSTRUCTED BETWEEN PIPES WITH DIFFERENT INVERT ELEVATIONS PROVIDING FOR SMOOTH FLOWS.
- CHANNELS FOR FUTURE CONNECTIONS (STUBS) SHALL BE CONSTRUCTED, FILLED WITH SAND AND COVERED WITH 1" OF MORTAR.
- WHERE PIPE INVERTS DIFFER BY MORE THAN 2 FEET (2'), PROVIDE A TEE AND DROP-PIPE TO PREVENT SPLATTER.

**TYPICAL MANHOLE PLAN**

**CITY OF MINNEOLA**

**S-3**

Not To Scale

January 2019

**STANDARD DROP MANHOLE CONNECTION**

**CITY OF MINNEOLA**

**S-4**

Not To Scale

January 2019

**NOTES:**

- MARK ALL POINTS WHERE SEWER SERVICES CROSS CURB WITH A "S" MARK IN CONCRETE.
- MINIMUM LATERAL SIZE FOR RESIDENTIAL SERVICE IS 4". MINIMUM LATERAL SIZE FOR NON-RESIDENTIAL SERVICE IS 6".

**SANITARY SEWER SERVICE**

**CITY OF MINNEOLA**

**S-5**

Not To Scale

January 2019

**Approved by City Council**

**3/7/23**

**NOTES:**

- MARK ALL POINTS WHERE SEWER SERVICES CROSS CURB WITH A "S" MARK IN CONCRETE.
- MINIMUM LATERAL SIZE FOR RESIDENTIAL SERVICE IS 4". MINIMUM LATERAL SIZE FOR NON-RESIDENTIAL SERVICE IS 6".

**SANITARY SEWER SERVICE (TALL RISER CONNECTION)**

**CITY OF MINNEOLA**

**S-6**

Not To Scale

January 2019

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**CITY OF MINNEOLA STANDARD WASTEWATER DETAILS**

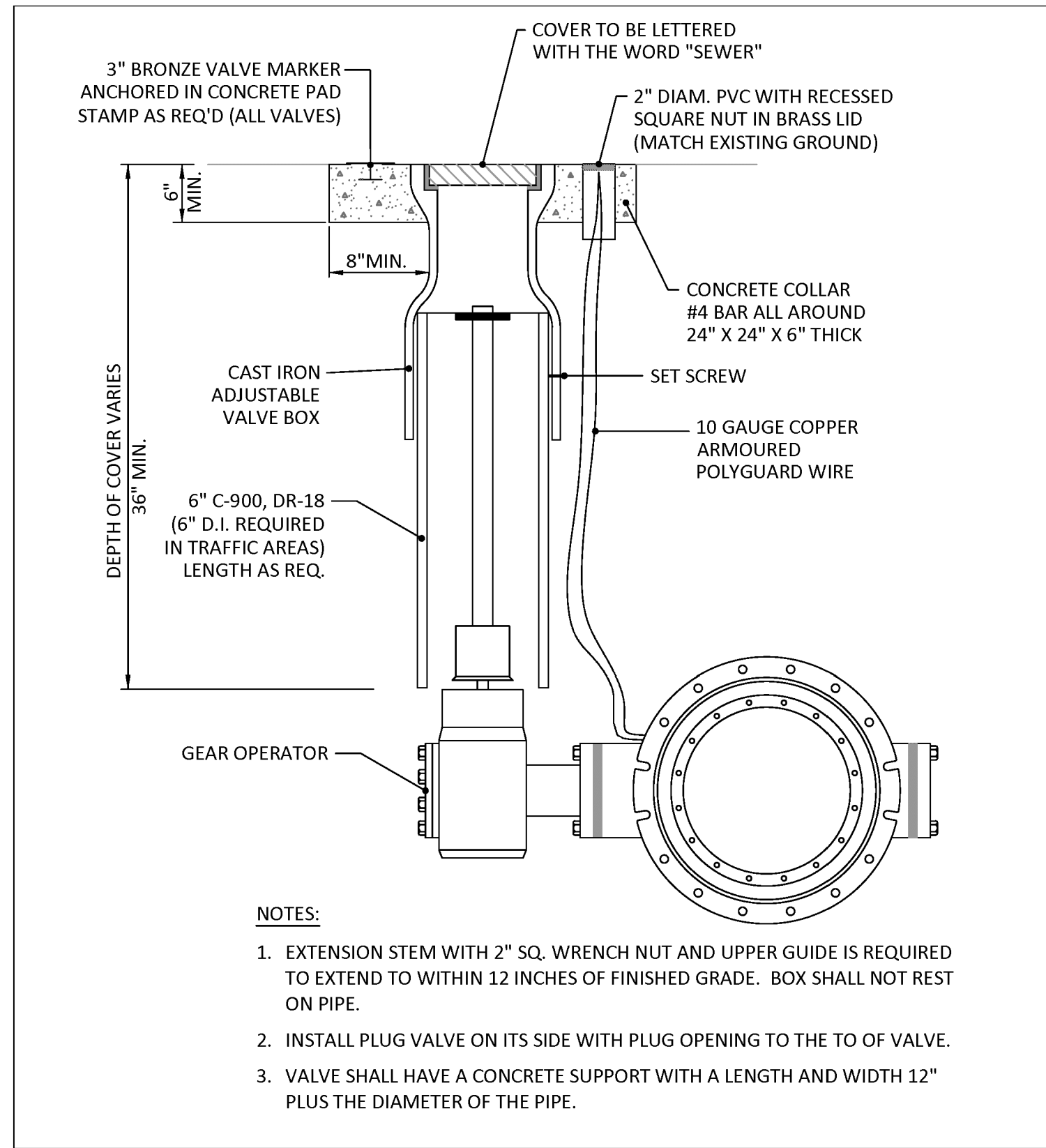
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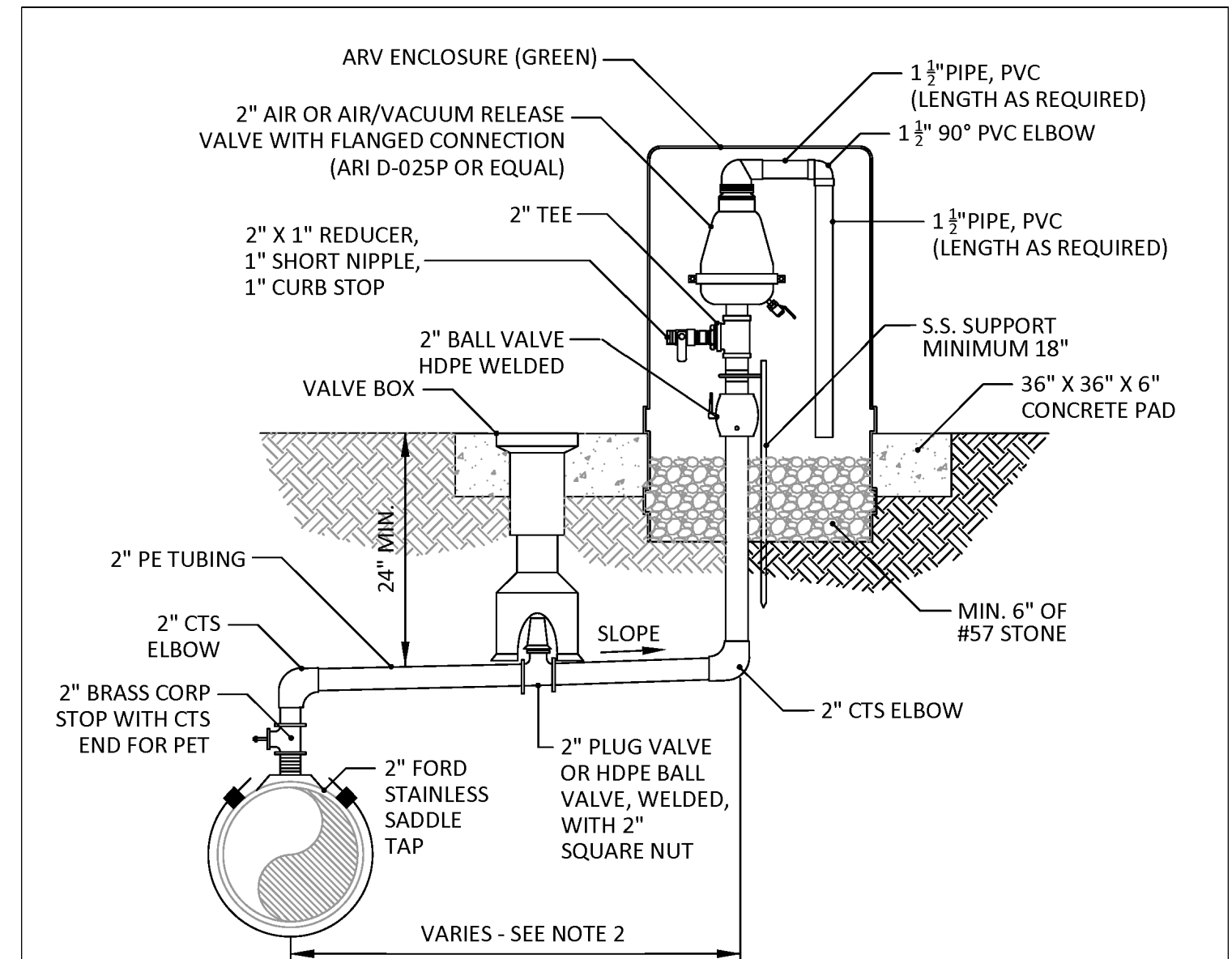


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- NOTES:**
1. EXTENSION STEM WITH 2" SQ. WRENCH NUT AND UPPER GUIDE IS REQUIRED TO EXTEND TO WITHIN 12 INCHES OF FINISHED GRADE. BOX SHALL NOT REST ON PIPE.
  2. INSTALL PLUG VALVE ON ITS SIDE WITH PLUG OPENING TO THE TO OF VALVE.
  3. VALVE SHALL HAVE A CONCRETE SUPPORT WITH A LENGTH AND WIDTH 12" PLUS THE DIAMETER OF THE PIPE.

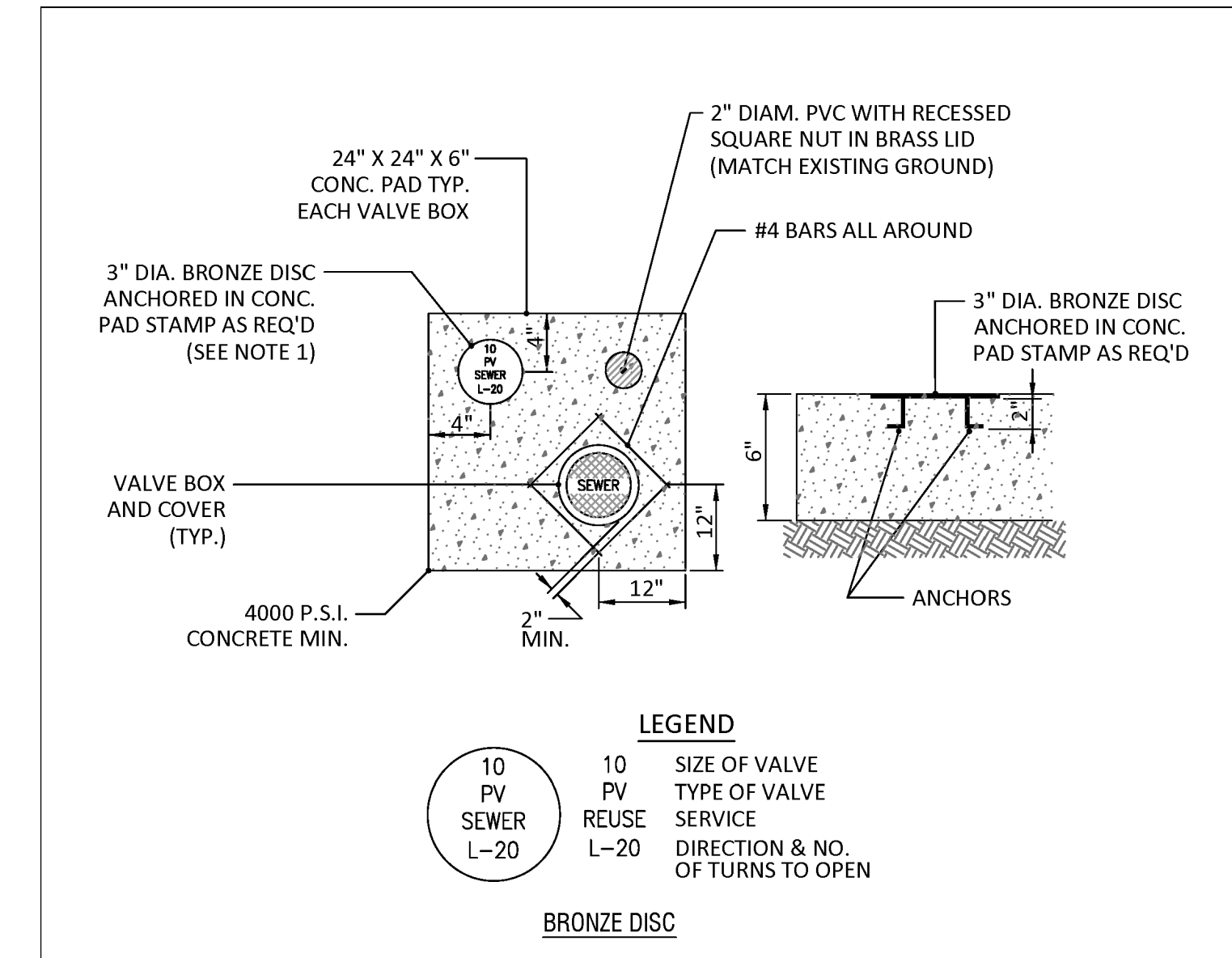
	PLUG VALVE & BOX	S-7
	CITY OF MINNEOLA	Not To Scale January 2019



- NOTES:**
1. FOR WASTEWATER USE ONLY. ABOVE GRADE PIPING SHALL BE WELDED HDPE.
  2. OFFSET DISTANCE TO BE FIELD DETERMINED AND AS CLOSE TO THE R/W LINE AS POSSIBLE.
  3. ADJUST HORIZONTAL LOCATION OF SIDEWALK, AS REQUIRED TO AVOID ARV ENCLOSURE.
  4. LOCATE ARV ENCLOSURE WITHIN 6" OF R/W LINE.
  5. ARV ENCLOSURE SHALL BE A WATER PLUS CORPORATION MODEL H30 GREEN ENCLOSURE WITH PAB KEY.

MAIN DIAMETER	ARV
12" AND SMALLER	2"
16"	3"
20", 24"	4"

	OFFSET AIR OR COMBINATION AIR/VACUUM RELEASE VALVE DETAIL - WASTEWATER ONLY	S-8
	CITY OF MINNEOLA	Not To Scale January 2019

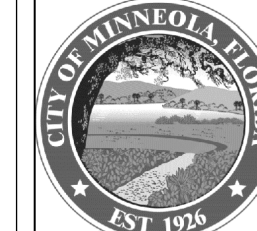


- NOTES:**
1. BRONZE IDENTIFICATION DISC SHALL BE REQUIRED FOR ALL VALVES.
  2. VALVE DESIGNATION:  
GV - GATE VALVE  
PV - PLUG VALVE  
BLV - BALL VALVE  
BV - BUTTERFLY VALVE

**LEGEND**

10 PV SEWER	10 PV REUSE	SIZE OF VALVE
L-20	L-20	TYPE OF VALVE SERVICE
		DIRECTION & NO. OF TURNS TO OPEN

**BRONZE DISC**

	VALVE COLLAR	S-9
	CITY OF MINNEOLA	Not To Scale January 2019

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Sheet Title:  
**CITY OF MINNEOLA  
STANDARD  
WASTEWATER  
DETAILS**

Sheet No.:  
**C6.31**

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3/7/23

**EROSION CONTROL STRUCTURE**

**CITY OF MINNEOLA**

**G-1**

Not To Scale  
November 2017

**NOTES:**

- TEMPORARY EROSION CONTROL STRUCTURE TO BE UTILIZED DURING CONSTRUCTION AT AREAS DESIGNATED BY ENGINEER OR AREAS ON-SITE WHERE UNSTABILIZED GRADES MAY CAUSE EROSION PROBLEMS. EROSION CONTROL STRUCTURE MAY BE REMOVED AFTER UPSLOPE AREA HAS BEEN STABILIZED BY SOD, OR COMPACTED AS DETERMINED BY CONTRACTOR.
- ALTERNATE EROSION CONTROL STRUCTURE: STRAW BALES ENTRENCHED W/ WOOD STAKES (2) PER BALE. F.D.O.T. INDEX #102. FILTER FABRIC IN ACCORDANCE WITH SECTION 985 OF THE F.D.O.T. STANDARD SPECIFICATIONS.
- CONSTRUCT STORMWATER SYSTEMS BEFORE ANY BUILDING OR ROAD CONSTRUCTION IS STARTED.
  - PROTECT SYSTEM FROM SILTING AND DEBRIS BY METHODS PROVIDED IN DETAILS.
  - PROTECT SWALE BOTTOM FROM SEALING BY EXCAVATING ALL SILT DEPOSITS DURING CONSTRUCTION. THIS SHALL BE DONE BEFORE SOD & SEEDING & MULCHING IS FINISHED.

THE FOLLOWING LIST REPRESENTS A BASIC EROSION AND SEDIMENT CONTROL PROGRAM WHICH IS TO BE IMPLEMENTED TO HELP PREVENT OFF-SITE SEDIMENTATION DURING AND AFTER CONSTRUCTION OF THE PROJECT. PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AT THE EARLIEST PRACTICAL TIME CONSISTENT WITH GOOD CONSTRUCTION PRACTICES. ONE OF THE FIRST CONSTRUCTION ACTIVITIES SHOULD BE THE PLACEMENT OF PERMANENT AND TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AROUND THE PERIMETER OF THE PROJECT OR THE INITIAL WORK AREA TO PROTECT THE PROJECT, ADJACENT PROPERTIES AND WATER RESOURCES.

TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE COORDINATED WITH PERMANENT MEASURES TO ASSURE ECONOMIC, EFFECTIVE AND CONTINUOUS CONTROL THROUGHOUT THE CONSTRUCTION PHASE. TEMPORARY MEASURES SHALL NOT BE CONSTRUCTED FOR EXPEDIENCY IN LIEU OF PERMANENT MEASURES.

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE ADEQUATELY MAINTAINED TO PERFORM THEIR INTENDED FUNCTION DURING CONSTRUCTION OF THE PROJECT.

NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BARRIERS SHALL BE ACCOMPLISHED PROMPTLY.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.

MATERIAL FROM SEDIMENT TRAPS SHALL NOT BE STOCKPILED OR DISPOSED OF IN A MANNER WHICH MAKES THEM READILY SUSCEPTIBLE TO BEING WASHED INTO ANY WATERCOURSE BY RUNOFF OR HIGH WATER.

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE BARRIERS ARE NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

**TYPE I FLOATING TURBIDITY BARRIER**

**CITY OF MINNEOLA**

**G-2**

Not To Scale  
November 2017

**NOTES:**

D<sub>1</sub> = 5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS).  
D<sub>2</sub> = 5' STD. (ADDITIONAL PANEL FOR DEPTHS > 5')

CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. TWO (2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

**BEDDING DETAILS**

**CITY OF MINNEOLA**

**G-3**

Not To Scale  
November 2017

**NOTES: FOR BEDDING AND TRENCHING**

- Dimension Bc = Pipe O.D.  
Dimension Bd = Trench Width at Top of Pipe  
Maximum Bd = Bc + 30"  
Minimum Bd = Maximum Dimension of Bell + 8" (Unsheeted Trench)
- Depth for removal for unsuitable material shall be as required to reach suitable foundation. For rock or other non-cushioning material, depth shall be 6" below bottom of utility.
- All backfill and select material under all roadways, drives (including dirt drives), and parking areas shall be compacted to 98% of the modified proctor maximum dry density (AASHTO T-180). Backfill and select material under all other areas shall be compacted as follows: From bottom of trench to 12" above top of pipe - 95% of modified proctor maximum dry density (AASHTO T-180). From 12" above top of pipe to top of backfill - 90% of modified proctor maximum dry density (AASHTO T-180).

**PIPING CLEARANCES**

**CITY OF MINNEOLA**

**G-4.1**

Not To Scale  
November 2017

**NOTES: (HORIZONTAL)**

- A MINIMUM SEPARATION OF SIX (6) FEET, OUTSIDE TO OUTSIDE, SHALL BE MAINTAINED BETWEEN WATER MAINS AND SANITARY GRAVITY SEWER LINES.
- A MINIMUM HORIZONTAL SEPARATION OF THREE (3) FEET, OUTSIDE TO OUTSIDE, SHALL BE MAINTAINED BETWEEN WATER MAINS AND RECLAIMED WATER LINES CARRYING UNRESTRICTED PUBLIC ACCESS REUSE WATER, AND STORM SEWER LINES.

**NOTES: (VERTICAL)**

- A MINIMUM OF VERTICAL SEPARATION OF AT LEAST SIX INCHES (6"), AND PREFERABLY TWELVE INCHES (12") ABOVE, OR AT LEAST TWELVE INCHES (12") BELOW, OUTSIDE TO OUTSIDE OF PIPE BARREL, SHALL BE MAINTAINED BETWEEN WATER MAIN, SANITARY GRAVITY SEWER, OR STORM SEWER. MINIMUM VERTICAL SEPARATION OF 12" OUTSIDE TO OUTSIDE SHALL BE MAINTAINED FOR CROSSING PRESSURE PIPES (RECLAIMED WATER, STORM FORCEMAIN, OR SANITARY FORCEMAIN).
- IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE CROSSING HAZARD.
- WHERE IT IS NOT POSSIBLE TO MAINTAIN THE REQUIRED SEPARATION, IT SHALL BE REPORTED TO THE CITY ENGINEER. DEVIATIONS AND OTHER ALTERNATIVES SHALL BE CONSIDERED ON A CASE-BY-CASE BASIS AND MUST RECEIVE SPECIFIC APPROVAL BY F.D.E.P., IN ACCORDANCE WITH FLORIDA STATUTE 62-555.314(5), PRIOR TO IMPLEMENTATION.

**PIPING CLEARANCES**

**CITY OF MINNEOLA**

**G-4.2**

Not To Scale  
November 2017

**NOTES: (VERTICAL)**

- A MINIMUM OF VERTICAL SEPARATION OF AT LEAST SIX INCHES (6"), AND PREFERABLY TWELVE INCHES (12") ABOVE, OR AT LEAST TWELVE INCHES (12") BELOW, OUTSIDE TO OUTSIDE OF PIPE BARREL, SHALL BE MAINTAINED BETWEEN WATER MAIN, SANITARY GRAVITY SEWER, OR STORM SEWER. MINIMUM VERTICAL SEPARATION OF 12" OUTSIDE TO OUTSIDE SHALL BE MAINTAINED FOR CROSSING PRESSURE PIPES (RECLAIMED WATER, STORM FORCEMAIN, OR SANITARY FORCEMAIN).
- IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE CROSSING HAZARD.
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**WATER LINE CROSSING**

**CITY OF MINNEOLA**

**G-5**

Not To Scale  
November 2017

**NOTES:**

- ALL PROPOSED JOINTS SHALL BE RESTRAINED.
- ALL EXISTING JOINTS WITHIN 12' SHALL BE RESTRAINED.

Consultant:

12/16/2022	RESUBMIT TO CITY
08/02/2022	SUBMIT TO CITY
NO. DATE	DESCRIPTIONS
SUBMISSIONS/REVISIONS	
VERTICAL DATUM	NAVD 88
JOB NO.	20-125
DESIGNED BY:	RAE
DRAWN BY:	RAE
CHECKED BY:	RAO
APPROVED BY:	RLB
SCALE IN FEET:	N.T.S.

Project Name:  
**CONDEV HILLS OF MINNEOLA PUD - AREA 5, POD 19**

Jurisdiction:  
**CITY OF MINNEOLA, FL**

Sheet Title:  
**CITY OF MINNEOLA GENERAL DETAILS**

Sheet No.:  
**C6.40**

Approved by City Council  
3/7/23



**Poulos & Bennett, LLC**  
2602 E. Livingston St., Orlando, FL 32803  
Tel. 407.487.2594 www.poulosandbennett.com  
Eng. Bus. No. 28567

PIPE SIZE (INCHES)	90° BEND		45° BEND		22.5° BEND		11.25° BEND	
	REDUCER	TEE	REDUCER	TEE	REDUCER	TEE	REDUCER	TEE
4	20"	16"	8"	7"	4"	3"	2"	2"
6	28"	22"	12"	9"	6"	4"	3"	2"
8	36"	28"	15"	12"	7"	6"	4"	3"
10	43"	34"	18"	14"	9"	7"	4"	3"
12	50"	40"	21"	17"	10"	8"	5"	4"
16	63"	51"	26"	21"	13"	10"	6"	5"
18	70"	56"	29"	23"	14"	11"	7"	6"
20	75"	61"	31"	25"	15"	12"	7"	6"
24	88"	70"	36"	29"	17"	14"	9"	7"

**THRUST RESTRAINT DESIGN NOTES**

- RESTRAINT JOINTS, FITTINGS, & VALVE REQUIREMENTS CALCULATED BY THE THRUST RESTRAINT DESIGN PROGRAM PROVIDED BY UNI-FLANGE, THE FORD METER BOX COMPANY, INC.
- DATA BASED ON MAX. PRESSURE OF 150 p.s.i. THE UNIFIED SOILS CLASSIFICATION SYSTEM (SOIL TYPE SP), THE PIPE BEDDED IN NATIVE SOIL w/ A MINIMUM OF 2.5' COMPACTED FILL OVER THE PIPE, AND USING A SAFETY FACTOR OF 1.5 FOR THE DATA.
- ALL FITTINGS & VALVES SHALL HAVE RESTRAINED JOINTS PER SPECIFICATIONS & ALL BELL & SPIGOT JOINTS TO BE RESTRAINED WITH A RESTRAINING HARNESS WITHIN THE REQUIRED LENGTH OF RESTRAINED PIPE (L).
- THRUST BLOCKS SHALL BE USED ONLY AS SPECIFIED BY PROJECT ENGINEER.

**THRUST RESTRAINT DETAILS** **G-6**  
 Not To Scale  
 November 2017  
 CITY OF MINNEOLA

- WHEN CONSTRUCTION IS WITHIN FDOT JURISDICTION, ADDITIONAL REQUIREMENTS OF THE UTILITY ACCOMMODATION GUIDE SHALL BE MET.
- CASING SPACERS MAY BE SUBSTITUTED IN LIEU OF WOOD SKIDS AND BANDING STRAPS.
- LARGER SKIDS SHALL BE REQUIRED FOR PIPE GREATER THAN 24" DIAMETER.
- WHERE PRACTICAL, CASING SHALL EXTEND 10' BEYOND EDGE OF PAVEMENT AND SHALL NOT BE LESS THAN 6' BEYOND EDGE OF PAVEMENT IN ANY CASE. THE COUNTY MAY REQUIRE LONGER CASING FOR DEEPER BORES.

**BORING AND JACKING DETAIL** **G-7**  
 Not To Scale  
 November 2017  
 CITY OF MINNEOLA

**KING INNOVATION DRYCONN DIRECT BURY LUG - AQUA®**

**IMPORTANT: TURN OFF POWER BEFORE INSTALLING OR REMOVING CONNECTORS. PRODUCT TO BE USED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.**

**INSTRUCTIONS: FOR LOW VOLTAGE APPLICATIONS - 50 VOLTS MAX.**

- STRIP MAIN AND TAP CONDUCTOR(S) TO 5/8" (WIDTH OF LUG).
- PLACE STRIPPED CONDUCTOR(S) INTO SIDE A OR B.\*\*
- TORQUE TO 35 LB-IN. (SOLID AND STANDED CONDUCTORS)  
 ALTERNATE TORQUE METHOD FOR USE ON SOLID WIRE: USING A SCREWDRIVER, TIGHTEN SET SCREW UNTIL IT COMES INTO CONTACT WITH THE SOLID CONDUCTOR. NOTE LOCATION OF SCREWDRIVER SLOT AND CONTINUE TIGHTENING THE SET SCREW AS INDICATED BELOW:  
 3/4 TURN #10 - 14 SOLID COPPER  
 1/4 TURN #10 - 14 STEEL CORE TRACER
- REPEAT STEPS 1 THROUGH 3 FOR ADJACENT SIDE.
- REMOVE SEALANT COVER AND DISCARD.
- CLOSE HOUSING, ALIGNING CONDUCTORS UNTIL HOUSING LID IS FULLY LATCHED.
- DO NOT REUSE.

\*\*USE SIDE A FOR UN-CUT MAIN OR TAP CONDUCTORS (FIGURE 1). WHEN SPLICING MULTIPLE TAP CONDUCTORS ON SIDE A OR B USE ONLY LIKE GAUGE AND TYPE (SOLID/STRANDED). DO NOT INSTALL MULTIPLE CONDUCTORS INTO THE SAME LUG OPENING (FIGURE 2).

SILICONE SEALANT TEMPERATURE RATING: -45°F TO 400°F  
 WIRE RANGE: #10-14 SOLID AND STRANDED COPPER; #10 - 14 STEEL CORE TRACER

**LOCATING WIRE SPLICING** **G-8**  
 Not To Scale  
 November 2017  
 CITY OF MINNEOLA

**REPLACEMENT OF FLEXIBLE PAVEMENT FOR PERMITTED PAVEMENT CUT**

**DENSITY PROCEDURES:**

THE BACK FILL FOR THE FIRST AND SECOND STAGES SHALL BE PLACED IN 6" LAYERS (COMPACTED THICKNESS) AND SHALL BE COMPACTED TO 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180. TEST REPORTS SHALL BE FURNISHED TO THE CITY.

**STAGE #1**

THE PERMITTEE SHALL PROVIDE ADEQUATE COMPACTED FILL BENEATH THE HAUNCHES OF THE PIPE, USING MECHANICAL TAMPERS SUITABLE FOR THIS PURPOSE. THIS COMPACTION APPLIES TO THE MATERIAL PLACED BENEATH THE HAUNCHES OF THE PIPE AND ABOVE ANY BEDDING REQUIRED.

**STAGE #2**

THE PERMITTEE SHALL OBTAIN A WELL-COMPACTED BED AND FILL ALONG THE SIDES OF THE PIPE AND TO A POINT INDICATING THE TOP OF SUB-GRADE MATERIAL.

**GENERAL NOTES:**

BASE AND BACK FILL MATERIALS SHALL BE EITHER OF THE SAME TYPE AND COMPOSITION AS THE MATERIALS REMOVED, OR OF EQUAL OR GREATER STRUCTURAL ADEQUACY. MATERIALS CONTAMINATED WITH DELETERIOUS SUBSTANCES DURING EXCAVATION SHALL NOT BE USED.

REPLACED BASE MATERIAL OVER DITCH SHALL BE TWICE THE THICKNESS OF THE ORIGINAL BASE, (MINIMUM 12")

BASE MATERIAL SHALL BE PLACED IN TWO OR THREE LAYERS AND EACH LAYER THOROUGHLY ROLLED OR TAMPED TO THE SPECIFIED DENSITY.

ASPHALT CONCRETE PAYMENT THICKNESS SHALL EQUAL EXISTING THICKNESS BUT NOT LESS THAN TWO (2) INCHES.

SURFACE TREATED PAVEMENT JOINT SHALL BE LAPPED AND FEATHERED AND EXTENDED AT LEAST 2' PAST EACH SURFACE JOINT.

SURFACE MATERIAL WILL BE CONSISTENT WITH THE EXISTING SURFACE.

**LIMESTONE, SAND-CLAY, SHELL, ETC. BASES:**

6" LAYERS COMPACTED THICKNESS DENSITY REQUIREMENTS:

98% UNDER ROADWAY  
 98% OUTSIDE THE TRAVELED ROADWAY, SUCH AS INTERSECTIONS, CROSSOVERS, TURNOUTS, ETC.  
 95% SHOULDER PAVEMENT  
 METHOD AASHTO T-180

**OPEN CUT AND REPAIR DETAIL** **G-9**  
 Not To Scale  
 November 2017  
 CITY OF MINNEOLA

**CONCRETE WALKWAY DETAIL** **G-10**  
 Not To Scale  
 November 2017  
 CITY OF MINNEOLA

**SOD PLANTING** **G-11**  
 Not To Scale  
 November 2017  
 CITY OF MINNEOLA

Approved by City Council  
 3/7/23

Consultant:

12/16/2022	RESUBMIT TO CITY
08/02/2022	SUBMIT TO CITY
NO. DATE	DESCRIPTIONS
SUBMISSIONS/REVISIONS	
VERTICAL DATUM	NAVD 88
JOB NO.	20-125
DESIGNED BY:	RAE
DRAWN BY:	RAE
CHECKED BY:	RAO
APPROVED BY:	RLB
SCALE IN FEET:	N.T.S.

Project Name:  
**CONDEY HILLS OF MINNEOLA PUD - AREA 5, POD 19**

Jurisdiction:  
 CITY OF MINNEOLA, FL

Sheet Title:  
**CITY OF MINNEOLA GENERAL DETAILS**

Sheet No.:  
**C6.41**

DATE: December 15, 2022



**Poulos & Bennett, LLC**  
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All ideas, designs, arrangements and plans indicated or represented by this drawing are owned by and the property of SCHWEIZER BOJACK LANDSCAPE ARCHITECTURE LLC and were created, evolved and developed for the use on and connection with this specific project.

ZONING:  
PUD-R

LOT 6B  
2.45 AC  
(FUTURE DEVELOPMENT AREA)

ZONING:  
PUD-R

LOT 6A  
2.65 AC  
(COMMERCIAL)

**PERSONAL STORAGE BUILDING**  
3-STORY; 100,175 SF  
FFE 224.00

ZONING:  
PUD-R

ZONING:  
PUD-R

R=837.00'  
CH DIR=S45°12'12"E  
CH=232.12'  
DELTA=15°56'27"  
L=232.87'

NORTH BUFFER: Class B Buffer  
20' width, 4 canopy trees and  
2 understory trees per 100 in. ft.  
with a continuous hedge.

EAST BUFFER: Class B Buffer  
20' width, 4 canopy trees and  
2 understory trees per 100 in. ft.  
with a continuous hedge.

SIGHT DISTANCE AREA - PROPOSED  
LANDSCAPING TO BE MAINTAINED  
WITH A CLEAR SIGHT DISTANCE  
BETWEEN 3 FT. - 7 FT. ABOVE THE  
GROUND.

SOUTH BUFFER: Class B Buffer  
20' width, 4 canopy trees and  
2 understory trees per 100 in. ft.  
with a continuous hedge.

WEST BUFFER: Class A Buffer  
10' width, 4 canopy trees per 100 in. ft. with a  
continuous hedge (Waiver requested for canopy  
trees due to conflicts with utility easements)

**TREE PLANTING NOTE:**  
THE LANDSCAPE PLAN ILLUSTRATES THE LOCATIONS OF EXISTING AND PROPOSED UTILITY SERVICES & PAVED AREAS TO AVOID CONFLICTS WITH PROPOSED TREES. A MINIMUM 10 FT. SEPARATION BETWEEN PROPOSED TREES AND UTILITIES AND/OR PAVED AREAS IS REQUIRED. IF A 10 FT. SEPARATION CANNOT BE ACHIEVED, AN ENVIRO BARRIER (OR EQUIVALENT) MUST BE INSTALLED.

**IRRIGATION NOTE:**  
ALL PROPOSED LANDSCAPE PLANTING AREAS SHALL BE SERVED BY PERMANENT IRRIGATION PURSUANT TO THE REQUIREMENTS OF THE CITY OF MINNEOLA LAND DEVELOPMENT CODE.

LINE	BEARING	LENGTH
L1	S37°13'59"E	40.07'
L2	S42°36'44"E	42.67'
L3	S37°13'59"E	18.32'
L4	S36°57'55"E	73.34'

CURVE	RADIUS	BEARING	CHORD	DELTA	LENGTH
C1	126.00'	S16°05'55"E	90.86'	42°16'07"	92.95'
C2	124.00'	S02°57'51"E	34.51'	15°59'58"	34.63'
C3	26.00'	S14°23'46"W	22.27'	50°43'11"	23.02'
C4	176.00'	S47°21'20"W	46.55'	15°11'58"	46.69'
C5	476.00'	N58°54'15"E	45.52'	5°28'54"	45.54'
C6	26.00'	N88°53'34"E	23.81'	54°29'43"	24.73'
C7	124.00'	S77°40'16"E	59.20'	27°37'23"	59.78'
C8	76.00'	S78°25'33"E	34.34'	26°06'50"	34.64'

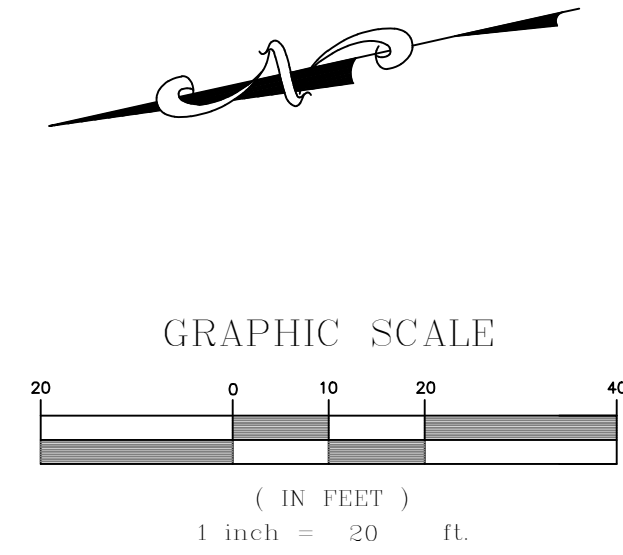
CALL 48 HOURS BEFORE YOU DIG

**811**

IT'S THE LAW!  
DIAL 811

Know what's below.  
Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.



**LANDSCAPE PLAN**

SEE SHEETS L-2 & L-3 FOR LANDSCAPE LEGEND, NOTES & PLANTING DETAILS

Approved by City Council  
3/7/23

12/01/22

2/10/22

DRAWN BY: KB

SHEET NUMBER

**L-1**



All ideas, designs, arrangements and plans indicated or represented by this drawing are owned by and the property of SCHWEIZER BOJACK LANDSCAPE ARCHITECTURE LLC and were created, evolved and developed for the use on and connection with this specific project.

**PLANT MATERIALS LEGEND**

SYMBOL	KEY	QNTY.	PLANT NAME (MATRIX TYPE)	SPECIFICATIONS/DESCRIPTION	WATER USE	COLD HARDY	NATIVE
	PS	1	Wild Date Palm <i>Phoenix sylvestris 'Robusta'</i>	10" Min. Cal., 14' C.T., Diamond Cut Trunk, Min. 32" Root Ball	Low	Yes	No
	SP	12	Cabbage Palm <i>Sabal palmetto</i>	10" Min. Cal., 8' C.T., 12' C.T. & 16' C.T., As Indicated On Landscape Plan	Low - Med. - High	Yes	Yes
	QV	26	Live Oak <i>Quercus virginiana 'Sky Climber'</i>	3" Cal., 8' Min. Ht., Min. 45 Gal. Container or Min. 32" Root Ball	Low - Med.	Yes	Yes
	MG	10	Southern Magnolia <i>Magnolia grandiflora</i>	3" Cal., 8' Min. Ht., Min. 45 Gal. Container or Min. 32" Root Ball	Low - Med.	Yes	Yes
	LIN	9	White Crape Myrtle <i>Lagerstroemia indica 'Natchez'</i>	3" Total Cal., 8' Min. Ht., Multi-Trunk, 45 Gal. Container or Min. 32" Root Ball	Low - Med.	Yes	No
	VO1	62	Walter's Viburnum 'Select' <i>Viburnum obovatum 'Select'</i>	30" Min. Ht., 7 Gal., 36" O.C.	Low - Med. - High	Yes	Yes
	VO2	430	Walter's Viburnum 'Select' <i>Viburnum obovatum 'Select'</i>	24" Min. Ht., 7 Gal., 30" O.C.	Low - Med. - High	Yes	Yes
	PM1	20	Podocarpus <i>Podocarpus macrophyllus</i>	36" Min. Ht., 7 Gal., 24" O.C.	Low - Med.	Yes	No
	PM2	161	Podocarpus <i>Podocarpus macrophyllus</i>	24" Min. Ht., 3 Gal., 18" O.C.	Low - Med.	Yes	No
	ZF	273	Coontie <i>Zamia floridana</i>	3 Gal., Full, 24" O.C.	Low - Med.	Yes	Yes
	JP	112	Parson's Juniper <i>Juniperus chinensis 'Parsonii'</i>	1 Gal., Full, 24" O.C.	Low - Med.	Yes	No
	EG	398	Blue Daze <i>Evolvulus glomeratus</i>	1 Gal., Full, 18" O.C.	Low	Yes	No
	SOD	TBD	'Argentine' Bahia Sod <i>Paspalum notatum 'Argentine'</i>	Solid Sod, As Indicated On Plans Repair All Disturbed Areas, As Needed			
	MULCH	TBD	Pine Bark Mulch	3" Min. Depth, All Planting Areas To Be Installed 12" - 18" Away From Trunk of Trees			

**CITY OF MINNEOLA LANDSCAPE CALCULATIONS**

**TREE REQUIREMENTS**

CODE: 3 TREES REQUIRED FOR FIRST 10,000 SQ. FT. OF SITE AREA, THEN 1 ADDITIONAL TREE REQUIRED FOR EVERY 6,000 SQ. FT.

TOTAL LOT AREA: 222,156 SQ. FT. (LOT 'A' + LOT 'B')  
 TOTAL TREES: 39 TREES REQUIRED  
 LOT 'A': 37 TREES PROVIDED (INCLUDES REQUIRED BUFFER TREES)  
 LOT 'B': 2 TREES WILL BE PLANTED IN THE FUTURE DEVELOPMENT AREA

**BUFFER REQUIREMENTS**

**NORTH, EAST & SOUTH BUFFERS:** CLASS "B" BUFFER: 20 FT. MIN. WIDTH, 4 CANOPY TREES, 2 UNDERSTORY TREES & CONTINUOUS 24" HT. HEDGE /100 LN. FT.  
 TOTAL LENGTH: 657 LN. FT. (EXCLUDES DRIVE ACCESS, LIFT STATION & UTILITY EASEMENTS)  
 TOTAL CANOPY TREES: 26 CANOPY TREES REQUIRED / 26 CANOPY TREES PROVIDED (BUFFER AREAS ONLY)  
 TOTAL UNDERSTORY TREES: 14 UNDERSTORY (OR PALM) TREES REQUIRED / 14 UNDERSTORY (OR PALM) TREES PROVIDED  
 TOTAL 24" MIN. HT. SHRUBS: 219 SHRUBS REQUIRED / 253 SHRUBS PROVIDED

**WEST BUFFER:** CLASS "A" BUFFER: 10 FT. MIN. WIDTH, 4 CANOPY TREES & CONTINUOUS 24" HT. HEDGE /100 LN. FT.  
 TOTAL LENGTH: 481 LN. FT. (EXCLUDES IMPERVIOUS/PAVED AREAS AT SOUTHWEST CORNER)  
 TOTAL CANOPY TREES: 20 CANOPY TREES REQUIRED / WAIVER REQUESTED FOR CANOPY TREES DUE TO EXISTING UNDERGROUND UTILITIES  
 TOTAL 24" MIN. HT. SHRUBS: 161 SHRUBS REQUIRED / 178 SHRUBS PROVIDED

**SHRUBS & GROUNDCOVERS**

LANDSCAPE DESIGN CRITERIA: MIN. 25% NATIVE + MIN. 50% COLD HARDY

TOTAL SHRUBS & GROUNDCOVERS PROPOSED: 1,456 (100%)  
 TOTAL NATIVE SHRUBS & GROUNDCOVERS PROPOSED: 765 (52%)  
 TOTAL COLD HARDY SHRUBS & GROUNDCOVERS PROPOSED: 1,456 (100%)

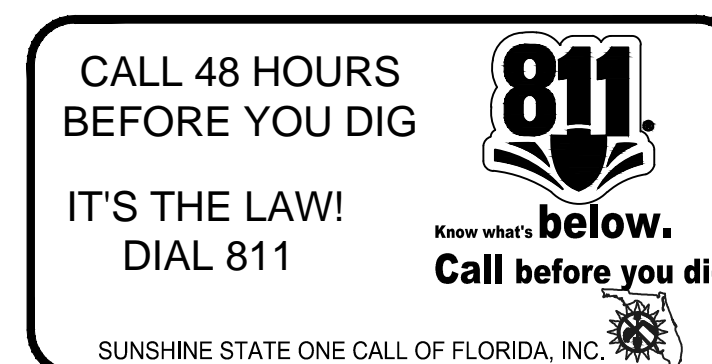
**LANDSCAPE GENERAL NOTES**

- The Landscape Contractor shall insure that this work does not interrupt established or projected drainage patterns. The Landscape Contractor shall verify adequate vertical drainage is available in all plant beds and planters. If necessary, vertical drilling by the Site Contractor through any compacted fill to native soil shall be accomplished to insure drainage.
- The Landscape Contractor shall notify Site Contractor if base material, construction debris, or other undesirable material is found in landscape planting areas or islands. The Site Contractor is responsible for removing base materials, construction debris or other undesirable materials from planting areas and landscape islands and providing clean backfill suitable for planting.
- The Landscape Contractor shall be responsible for all materials and all work as called for on the landscape plans and in the landscape specifications. The list of plant quantities accompanying the plans shall be used as a guide only. Contractor shall verify all quantities and report any discrepancies at the time of bidding.
- All plant materials shall be graded Florida No. 1 or better, as outlined under Grades and Standards for Nursery Plants, Division of Plant Industry, State of Florida, unless otherwise noted.
- All plant beds and tree rings shall be top dressed with a 3" minimum depth of pine bark nuggets.
- The Landscape Contractor shall be wholly responsible for stability and plumb condition of all trees, palms and shrubs. Staking of trees or shrubs, if desired or requested by the Landscape Architect or owner, shall be done utilizing a method agreed upon by the Landscape Architect.
- All specimen plant material shall be approved by the Landscape Architect prior to movement to the job site.
- Sod line to be a smooth, manicured line as indicated on the plans. Bedlines to be approved by the Landscape Architect or owner prior to installing sod.
- No fill material or use of heavy equipment around existing trees is allowed. Existing trees are to be protected by a protective barricade erected in compliance with local codes.
- The Landscape Contractor is responsible for testing project soils. The Landscape Contractor is to provide a certified soils report to the Owner and Landscape Architect. The Landscape Contractor shall verify that the soils on site are acceptable for proper growth of the proposed plant material. Should the Landscape Contractor find poor soil conditions, the Owner and Landscape Architect must be consulted prior to planting.
- All grades, dimensions and existing conditions shall be verified by the Contractor on site before construction begins. Any discrepancies shall be brought to the attention of the Landscape Architect.
- All proposed trees to be installed either entirely in or entirely out of planting beds. Planting bedlines are not to be obstructed; smooth and flowing.
- The Landscape Contractor shall review architectural/engineering plans to become thoroughly familiar with surface and subsurface utilities.
- The Landscape Contractor shall coordinate with the lighting and irrigation contractors regarding the timing of the installation of plant material.
- Every possible safeguard shall be taken to protect building surfaces, equipment and furnishings. Landscape Contractor shall be responsible for any damage or injury to person or property which may occur as a result of his negligence in the execution of work.
- Landscape improvements will be inspected prior to issuance of a certificate of occupancy. You must contact your local building department for a landscape inspection.

**LANDSCAPE LEGEND & NOTES**

SEE SHEETS L-1 & L-3 FOR LANDSCAPE LAYOUT,  
LANDSCAPE NOTES & PLANTING DETAILS

Approved by City Council  
3/7/23



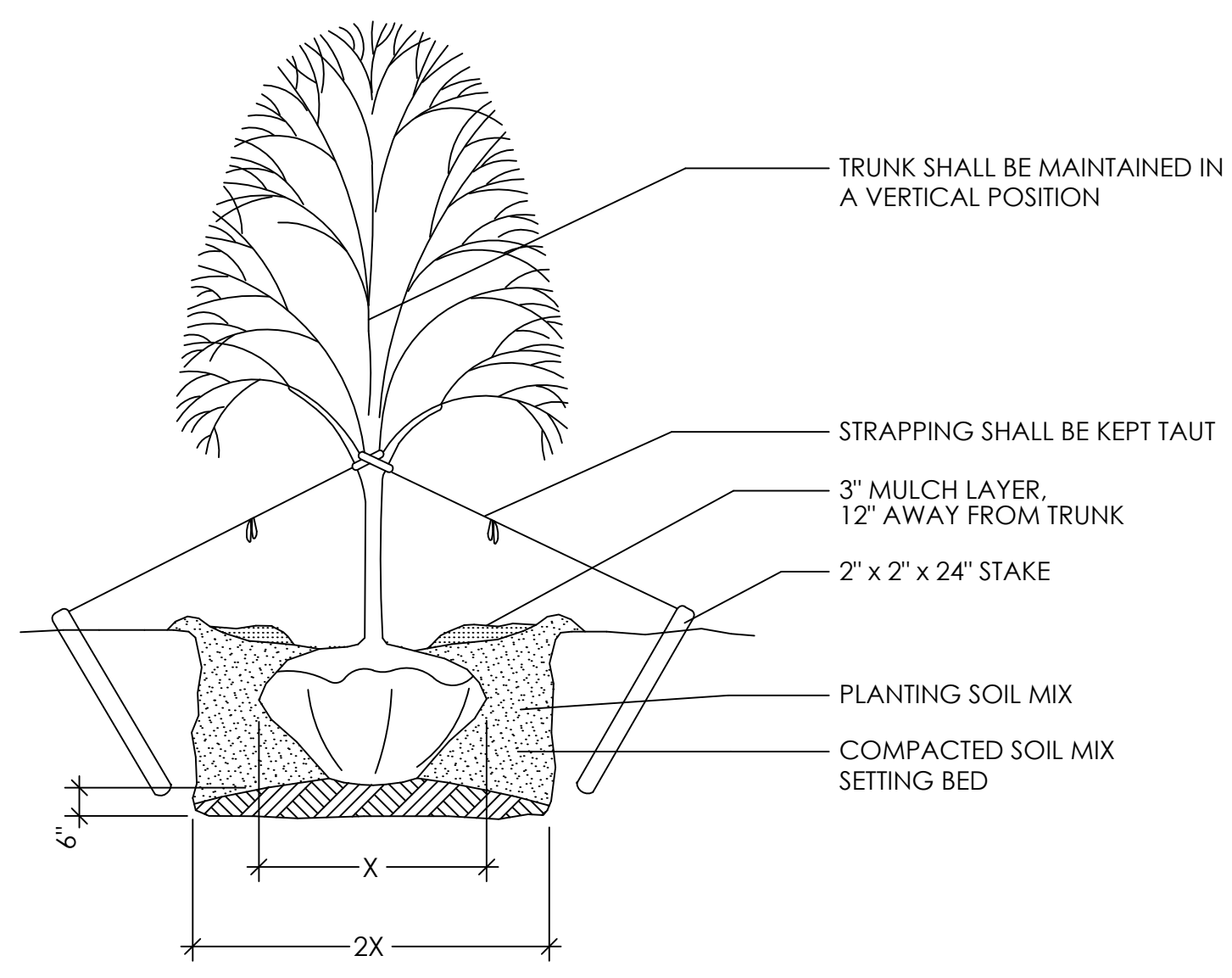
SCHWEIZER  
BOJACK  
LANDSCAPE  
ARCHITECTURE

SCHWEIZER BOJACK LANDSCAPE ARCHITECTURE LLC  
 PO BOX 948383 • MAITLAND, FLORIDA 32794 • PH: (407) 374-1423  
 LICENSE NO. LC26000487 • DESIGN@SCHWEIZERBOJACK.COM

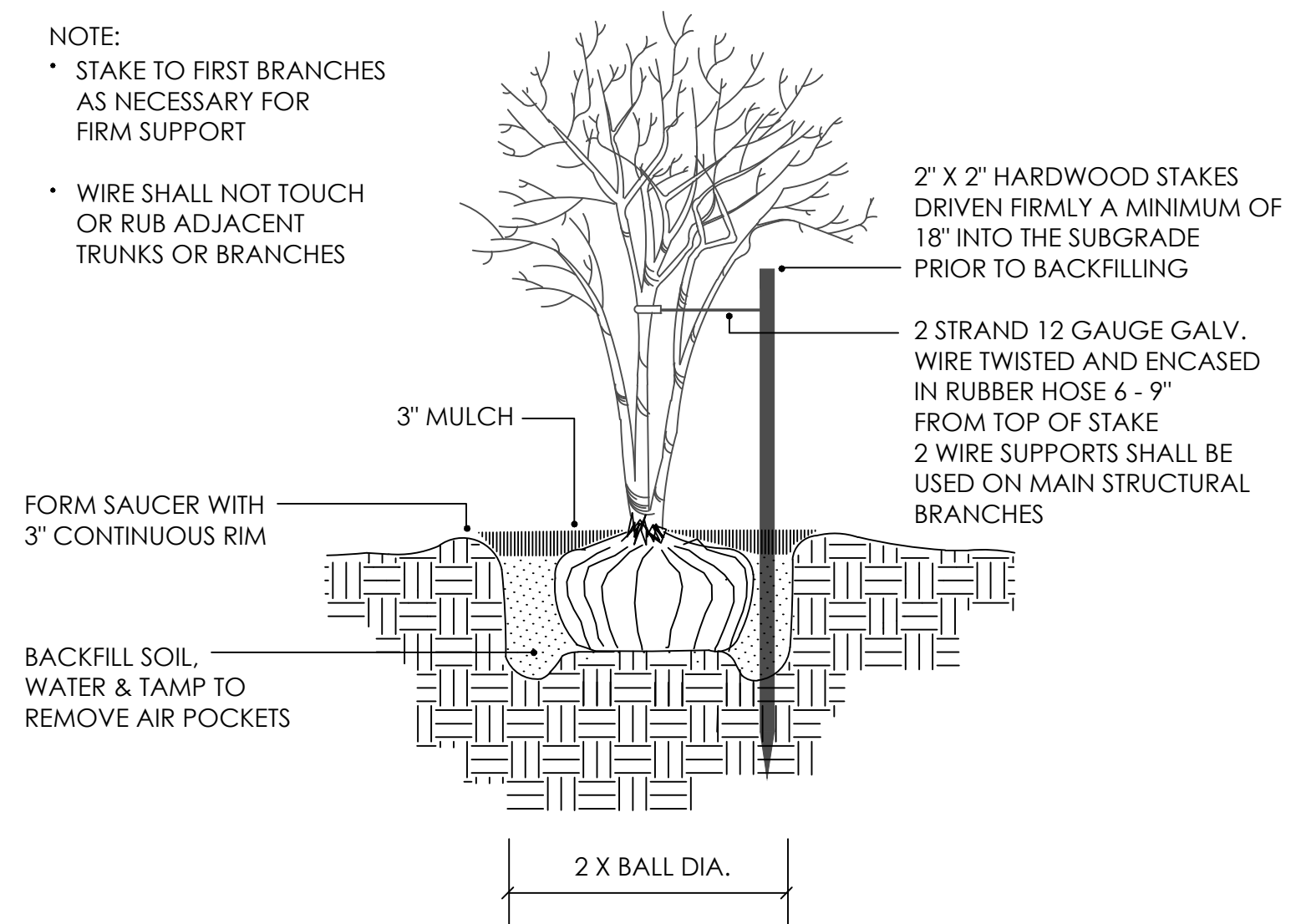
CONDEV HILLS OF MINNEOLA PUD - AREA 5, POD 19  
CITY OF MINNEOLA, FLORIDA

12/01/22  
2/10/22  
DRAWN BY: KB  
SHEET NUMBER  
**L-2**

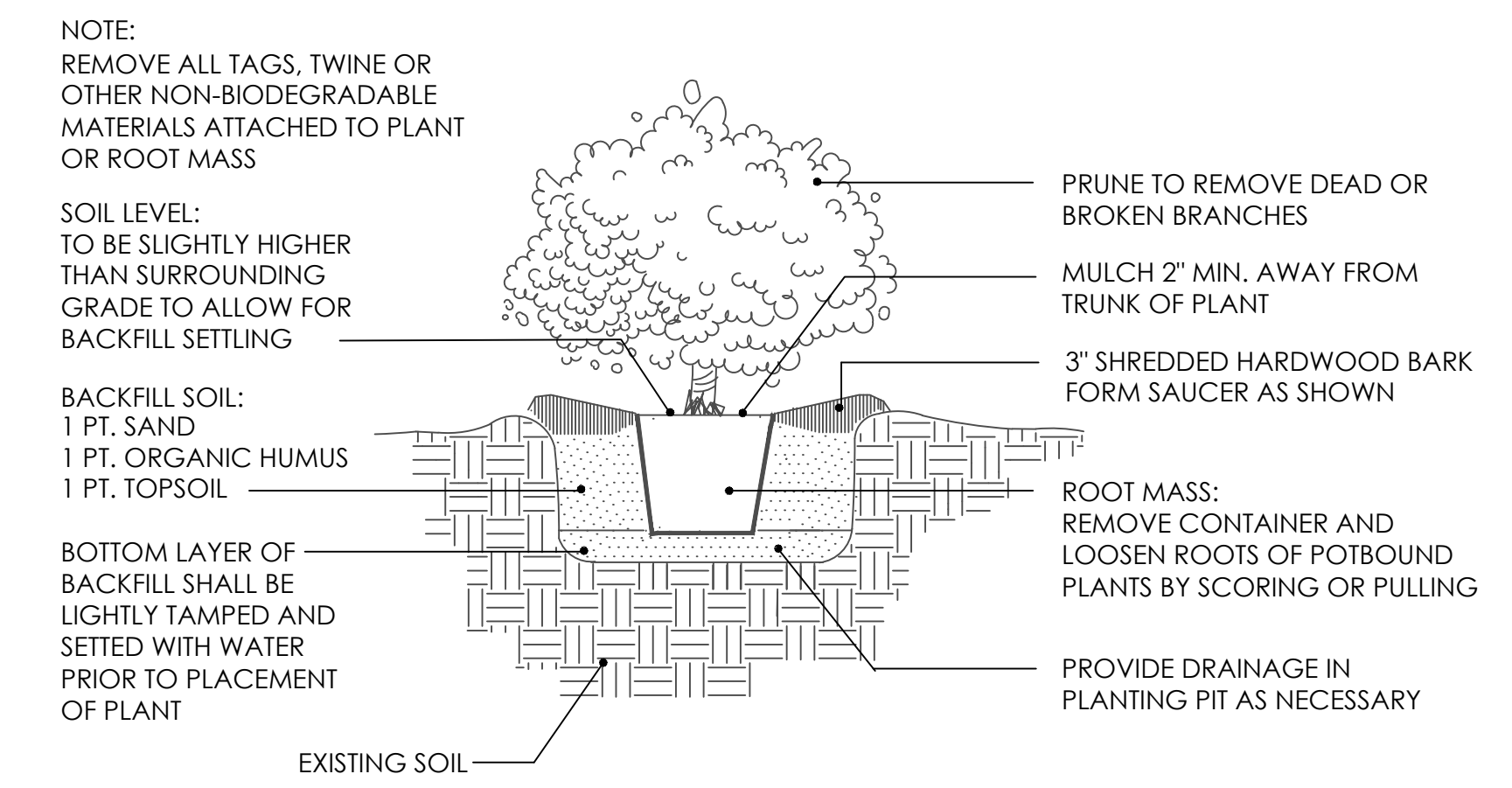
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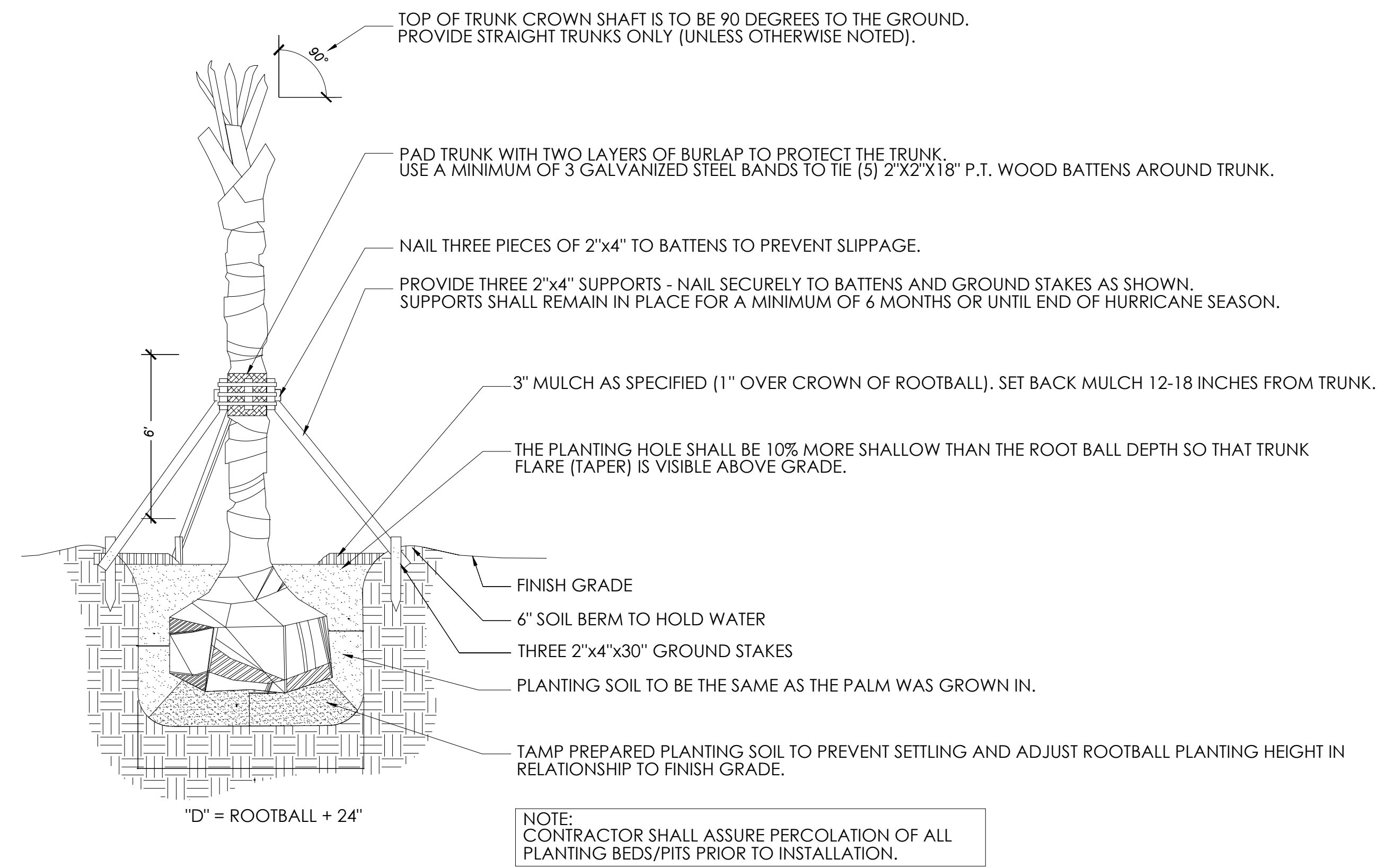
1 SINGLE-TRUNK TREE PLANTING DETAIL  
NOT TO SCALE



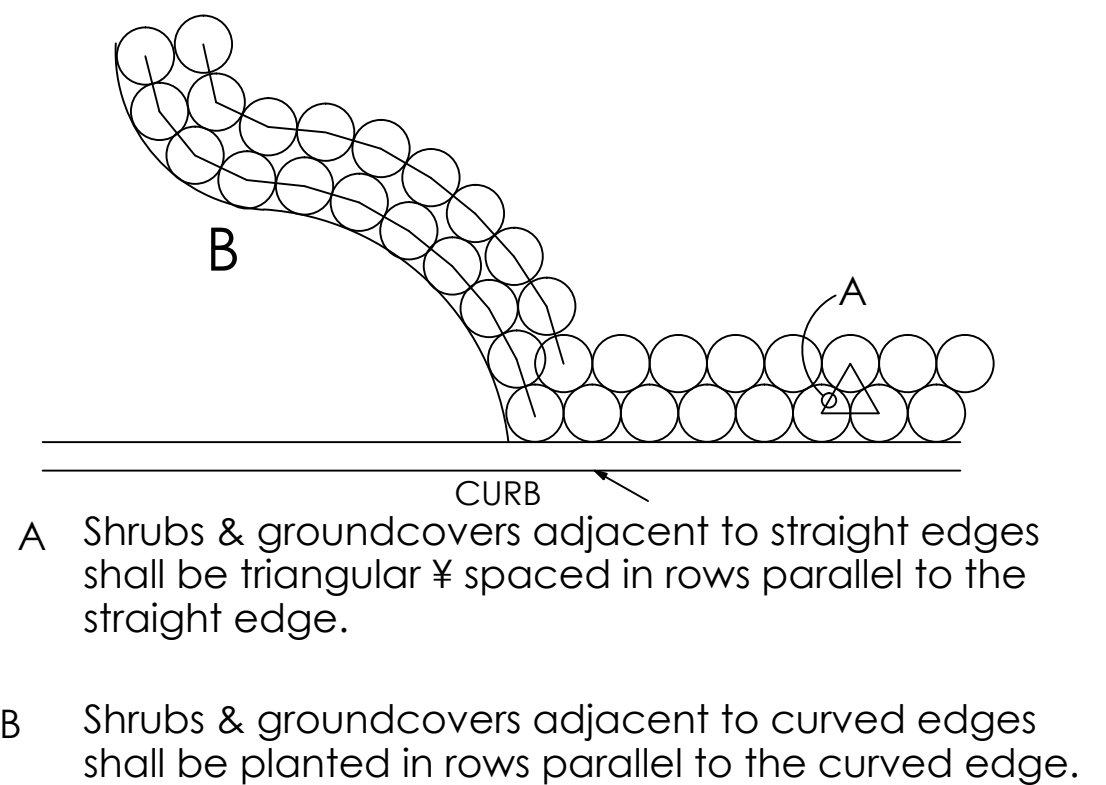
2 MULTI-TRUNK TREE PLANTING DETAIL  
NOT TO SCALE



3 CONTAINER SHRUB PLANTING DETAIL  
NOT TO SCALE



4 PALM TREE PLANTING DETAIL  
NOT TO SCALE



5 SHRUBS & GROUND COVER SPACING DETAIL  
NOT TO SCALE

# LANDSCAPE PLANTING DETAILS

SEE SHEETS L-1 & L-2 FOR LANDSCAPE LAYOUT,  
LEGEND, NOTES & PLANTING DETAILS

Approved by City Council  
3/7/23

CALL 48 HOURS BEFORE YOU DIG  
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SUNSHINE STATE ONE CALL OF FLORIDA, INC.

12/01/22  
2/10/22  
DRAWN BY: KB  
SHEET NUMBER  
L-3

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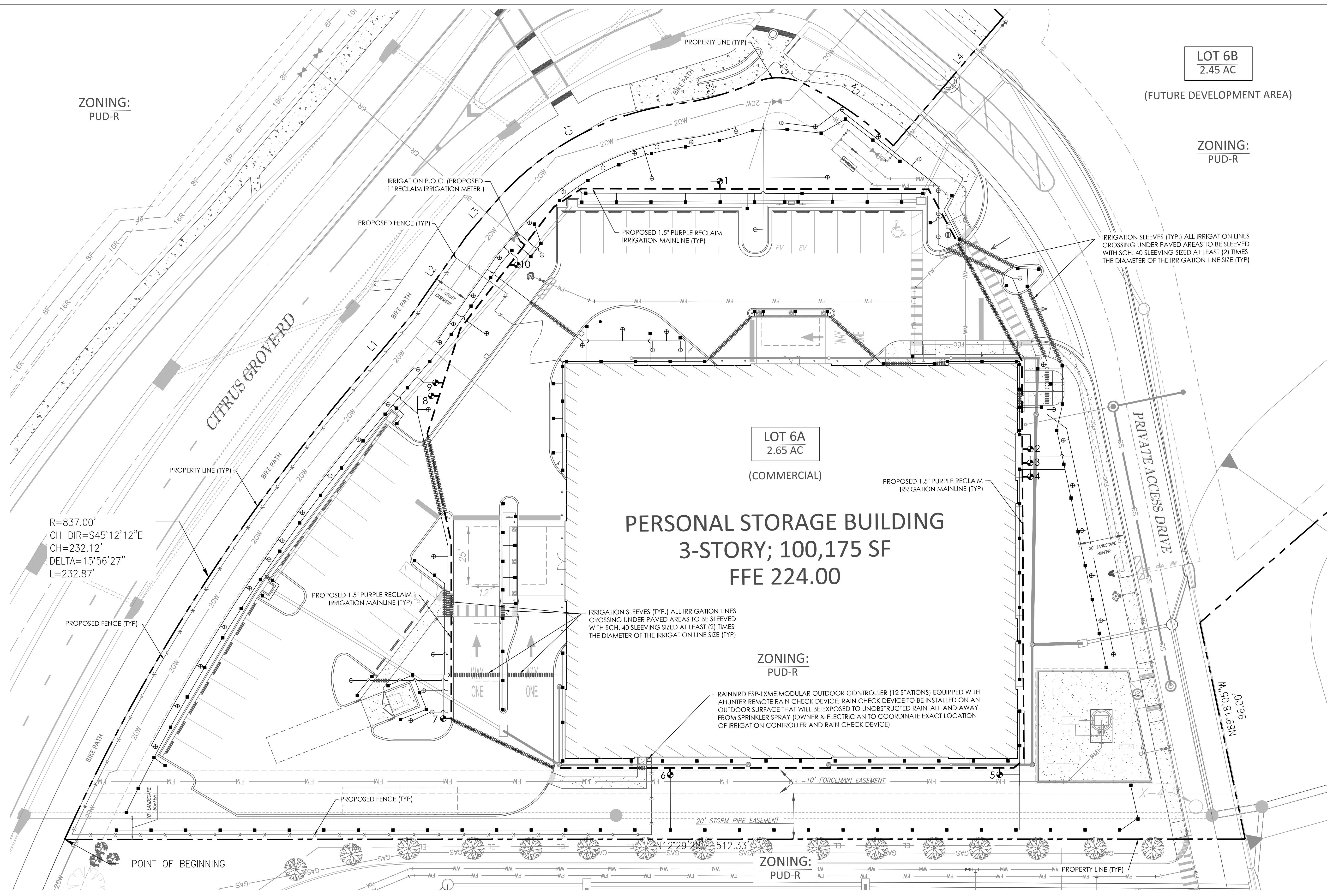


SCHWEIZER  
BOJACK  
LANDSCAPE  
ARCHITECTURE

SCHWEIZER BOJACK LANDSCAPE ARCHITECTURE LLC  
PO BOX 948383 • MAITLAND, FLORIDA 32794 • PH: (407) 374-1423  
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CONDEV HILLS OF MINNEOLA PUD - AREA 5, POD 19  
CITY OF MINNEOLA, FLORIDA

12/01/22  
2/10/22  
DRAWN BY: KB  
SHEET NUMBER  
**L-4**



ZONING:  
PUD-R

LOT 6B  
2.45 AC  
(FUTURE DEVELOPMENT AREA)

ZONING:  
PUD-R

LOT 6A  
2.65 AC  
(COMMERCIAL)

**PERSONAL STORAGE BUILDING**  
3-STORY; 100,175 SF  
FFE 224.00

ZONING:  
PUD-R

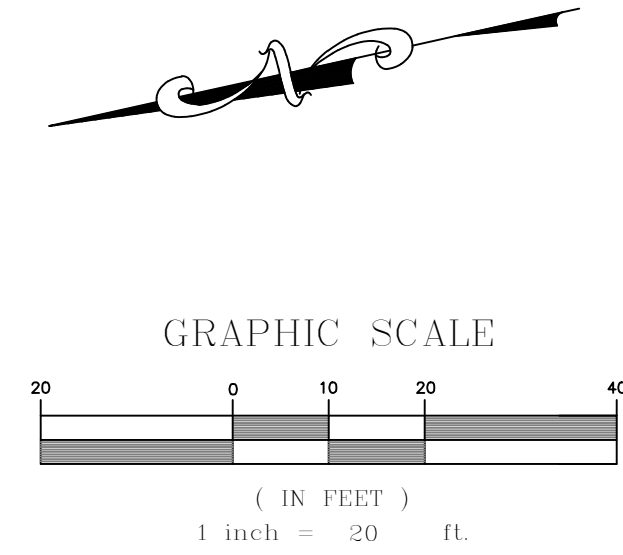
ZONING:  
PUD-R

R=837.00'  
CH DIR=S45°12'12"E  
CH=232.12'  
DELTA=15°56'27"  
L=232.87'

LINE	BEARING	LENGTH
L1	S37°13'59"E	40.07'
L2	S42°36'44"E	42.67'
L3	S37°13'59"E	18.32'
L4	S36°57'55"E	73.34'

CURVE	RADIUS	BEARING	CHORD	DELTA	LENGTH
C1	126.00'	S16°05'55"E	90.86'	42°16'07"	92.95'
C2	124.00'	S02°57'51"E	34.51'	15°59'58"	34.63'
C3	26.00'	S14°23'46"W	22.27'	50°43'11"	23.02'
C4	176.00'	S47°21'20"W	46.55'	15°11'58"	46.69'
C5	476.00'	N58°54'15"E	45.52'	5°28'54"	45.54'
C6	26.00'	N88°53'34"E	23.81'	54°29'43"	24.73'
C7	124.00'	S77°40'16"E	59.20'	27°37'23"	59.78'
C8	76.00'	S78°25'33"E	34.34'	26°06'50"	34.64'

CALL 48 HOURS BEFORE YOU DIG  
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IT'S THE LAW! DIAL 811  
Know what's below. Call before you dig.  
SUNSHINE STATE ONE CALL OF FLORIDA, INC.



**IRRIGATION PLAN**

SEE SHEET L-5 FOR IRRIGATION  
LEGEND, NOTES & EQUIPMENT DETAILS

Approved by City Council  
3/7/23

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## IRRIGATION GENERAL NOTES

1. THE IRRIGATION CONTRACTOR SHALL REFER TO THE LANDSCAPE PLAN WHEN TRENCHING TO LAY PIPE TO AVOID NEW AND EXISTING TREES AND LARGE SHRUBS.
2. ALL WIRING FROM THE IRRIGATION CONTROLLER TO THE REMOTE CONTROL VALVES SHALL BE UF-14/1 DIRECT BURIAL CABLE. ALL WIRE SPLICES SHALL BE MADE IN VALVE BOXES ONLY USING RAINBIRD SNAP-TITE CONNECTORS AND SEALANT.
3. UNLESS OTHERWISE INDICATED, PIPE TO A SINGLE SPRAY HEAD SHALL BE 1/2" PVC CL-315 PIPING.
4. ALL MAINLINE PIPING SHALL BE BURIED TO HAVE A MINIMUM COVER OF 18 INCHES. ALL LATERAL PIPING DOWNSTREAM OF THE MAINLINE SHALL BE BURIED TO HAVE A MINIMUM COVER OF 12 INCHES.
5. THE IRRIGATION CONTRACTOR, PRIOR TO BEGINNING ANY UNDERGROUND EXCAVATION, DIGGING, OR BORING MUST FIRST OBTAIN ALL REQUIRED PERMITS. WORK IS NOT AUTHORIZED PRIOR TO THE ISSUANCE OF PERMIT(S). THE CONTRACTOR SHALL COMPLY WITH FL 77-153 REGARDING NOTIFICATIONS OF EXISTING GAS AND OIL PIPELINE COMPANY OWNERS. EVIDENCE OF SUCH NOTICE SHALL BE FURNISHED TO THE OWNER PRIOR TO EXCAVATING. THE CONTRACTOR SHALL COORDINATE FULLY WITH THE OWNER FOR ALL EXCAVATION PERMITS AND NOTIFICATIONS NECESSARY PRIOR TO COMMENCING WORK. ALL IRRIGATION WORK TO BE IN FULL COMPLIANCE WITH LOCAL CODES.
6. THE IRRIGATION CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS SHOWN ON THE PLANS AT THE SITE PRIOR TO COMMENCEMENT OF WORK UNDER THIS CONTRACT. REFER TO ENGINEERING DRAWINGS FOR ALL UTILITY LOCATIONS, FINAL GRADING AND SPOT ELEVATIONS AND VERIFY IN THE FIELD PRIOR TO COMMENCING WORK.
7. FIELD ALTERATIONS MADE IN THE IRRIGATION CONTRACT DRAWINGS MUST BE IN THE BEST INTEREST OF THE PLANT MATERIAL, SOD AND IRRIGATION SYSTEM. CHANGES MADE BY THE IRRIGATION CONTRACTOR SHALL BE APPROVED BY THE OWNER/LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
8. ALL PIPING ON THE PLANS IS DIAGRAMMATICALLY ROUTED FOR CLARITY AND SHALL BE ROUTED TO AVOID NEW AND EXISTING PLANTS. DESIGN MODIFICATIONS SHALL ONLY BE MADE AS NECESSARY TO MEET FIELD CONDITIONS AND ONLY UPON APPROVAL OF THE OWNER OR LANDSCAPE ARCHITECT.
9. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL ADJUSTMENT OF THE SPRINKLERS ARC AND RADIUS TO ASSURE 100 PERCENT COVERAGE.
10. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO SEE THAT THE CONTROLLER IS WIRED IN ACCORDANCE WITH ALL ELECTRICAL CODES BY A LICENSED ELECTRICIAN. ALL MATERIALS NECESSARY TO WIRE THE CONTROLLER SHALL BE FURNISHED BY THE IRRIGATION CONTRACTOR.
11. THE IRRIGATION CONTRACTOR SHALL CHOOSE THE APPROPRIATE NOZZLES TO PROVIDE MAXIMUM COVERAGE.
12. ALL LANDSCAPE IRRIGATION SYSTEMS SHALL BE LOW-VOLUME IRRIGATION SYSTEMS. A LOW-VOLUME IRRIGATION SYSTEM IS DESIGNED TO PROVIDE NO MORE THAN THE MINIMUM AMOUNT OF WATER REQUIRED BY ANY SPECIFIC LANDSCAPE MATERIAL TO ENSURE SURVIVAL OF THAT MATERIAL. SUCH A SYSTEM UTILIZES A COMBINATION OF SPRINKLER MECHANISMS AND ZONES TO ACCOMMODATE THE INDIVIDUAL IRRIGATION REQUIREMENTS OF EACH TYPE OF LANDSCAPE MATERIAL, INCLUDING TREES, SHRUBS, ORNAMENTALS AND TURF AREAS.
13. ALL UNDERGROUND IRRIGATION SYSTEMS SHALL BE REGULATED BY AN AUTOMATIC TIMER OR CONTROLLER. AUTOMATICALLY CONTROLLED IRRIGATION SYSTEMS SHALL BE OPERATED BY AN IRRIGATION CONTROLLER THAT IS CAPABLE OF IRRIGATING HIGH REQUIREMENT AREAS.
14. THE DESIGN OF THE IRRIGATION SYSTEM SHALL INCLUDE SPRINKLER HEADS AND DEVICES APPROPRIATE FOR THE LANDSCAPE MATERIALS TO BE IRRIGATED. LOW TRAJECTORY HEADS OR LOW-VOLUME WATER DISTRIBUTING DEVICES SHALL BE USED TO IRRIGATE CONFINED AREAS IN ORDER TO PREVENT OVERSPRAY ONTO IMPERVIOUS AREAS.
15. IRRIGATION SYSTEMS SHALL BE DESIGNED TO PLACE HIGH WATER DEMAND AREAS, SUCH AS LAWNS, ON SEPARATE ZONES FROM THOSE AREAS WITH REDUCED WATER REQUIREMENTS.
16. EACH TYPE OF ZONE IS TO BE PIPED SEPARATELY. DO NOT INTERCONNECT DIFFERENT TYPES OF ZONES (I.E. SOD VS. SHRUBS).

## IRRIGATION EQUIPMENT LEGEND

SYMBOL	SPECIFICATIONS/DESCRIPTION
P.O.C.	POINT OF CONNECTION: PROPOSED 1" RECLAIM IRRIGATION METER NOTE: THE IRRIGATION SYSTEM DESIGN IS BASED ON MAX. 30 GPM; CONTRACTOR TO FIELD VERIFY THAT 30 GPM IS AVAILABLE FROM 1" RECLAIM IRRIGATION METER OR FIELD ADJUST PROPOSED IRRIGATION ZONES AS NECESSARY)
☐	RAINBIRD ESP-LXME MODULAR OUTDOOR CONTROLLER (12 STATIONS) EQUIPPED WITH A HUNTER REMOTE RAIN CHECK DEVICE; RAIN CHECK DEVICE TO BE INSTALLED ON AN OUTDOOR SURFACE THAT WILL BE EXPOSED TO UNOBSTRUCTED RAINFALL AND AWAY FROM SPRINKLER SPRAY (OWNER & ELECTRICIAN TO COORDINATE EXACT LOCATION OF IRRIGATION CONTROLLER AND RAIN CHECK DEVICE)
●	RAINBIRD PESBR 1" DURABLE CHLORINE-RESISTANCE VALVES FOR RECLAIMED WATER APPLICATION, WITH SCRUBBER MECHANISM TECHNOLOGY AND PURPLE FLOW CONTROL HANDLE. ALL VALVES TO BE INSTALLED INSIDE VALVE BOX WITH NON-POTABLE PURPLE LID, LEVEL WITH GRADE.
⊙	RAINBIRD 1800-1400 FLOOD BUBBLER, INSTALLED USING A 1/2" FLEX PIPE WITH A MINIMUM OF 12" LENGTH
■	RAINBIRD 1812-SAM-NP 12" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL, 1/2" NPT FEMALE THREADED INLET WITH SEAL-A-MATIC CHECK VALVE AND NON-POTABLE PURPLE CAP.
-----	1.5" IRRIGATION MAINLINE, NON-POTABLE PURPLE PVC SCH. 40 IRRIGATION PIPE
—————	NON-POTABLE PURPLE IRRIGATION LATERAL LINES, TO BE SIZED & INSTALLED BY IRRIGATION CONTRACTOR
⋯⋯⋯⋯⋯	SCH. 40 PVC IRRIGATION SLEEVES (TO BE SIZED AT LEAST (2) TIMES THE DIAMETER OF THE INNER IRRIGATION LINE & INSTALLED BY THE IRRIGATION CONTRACTOR)

## IRRIGATION SYSTEM NOTES:

1. ALL PROPOSED IRRIGATION SYSTEM ELEMENTS TO BE PART OF A PERMANENT UNDERGROUND SYSTEM.
2. THE IRRIGATION SYSTEM SHALL BE DESIGNED AND INSTALLED TO CONFORM TO THE MINNEOLA LAND DEVELOPMENT CODE.

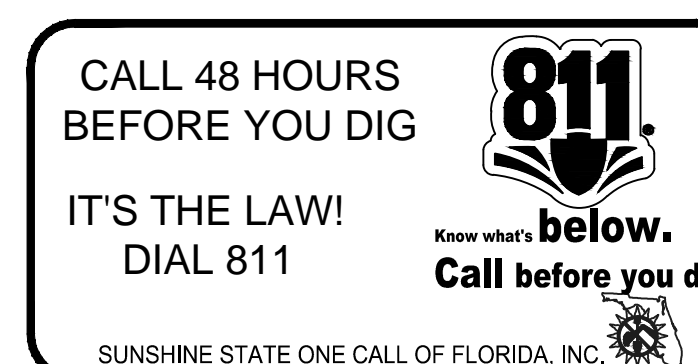
## IRRIGATION ZONE LEGEND

ZONE #	DESCRIPTION	USAGE	WATER USE
1	SHRUB SPRAYS	28.59 GPM	LOW-MED.
2	SHRUB SPRAYS	26.24 GPM	LOW-MED.
3	TREE BUBBLERS	30.00 GPM	LOW-MED.
4	SHRUB SPRAYS	25.96 GPM	LOW-MED.
5	SHRUB SPRAYS	26.02 GPM	LOW-MED.
6	SHRUB SPRAYS	27.23 GPM	LOW-MED.
7	SHRUB SPRAYS	25.83 GPM	LOW-MED.
8	TREE BUBBLERS	28.50 GPM	LOW-MED.
9	SHRUB SPRAYS	28.85 GPM	LOW-MED.
10	TREE BUBBLERS	28.50 GPM	LOW-MED.

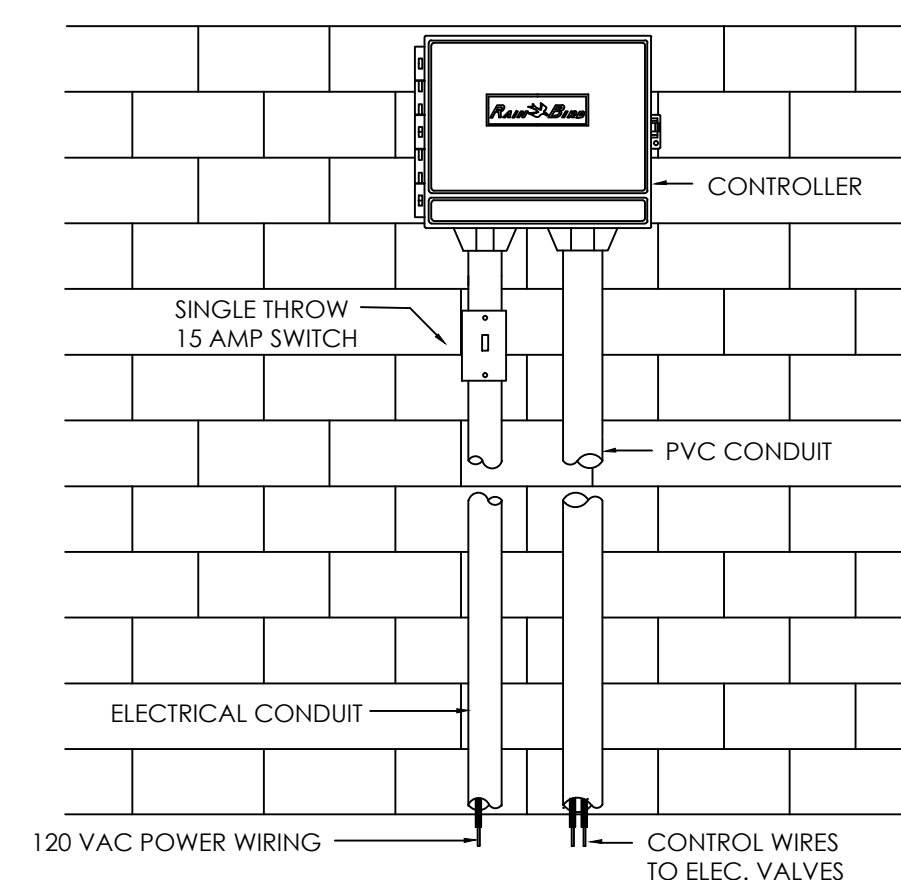
## IRRIGATION NOTES & DETAILS

SEE SHEET L-4 FOR IRRIGATION LAYOUT

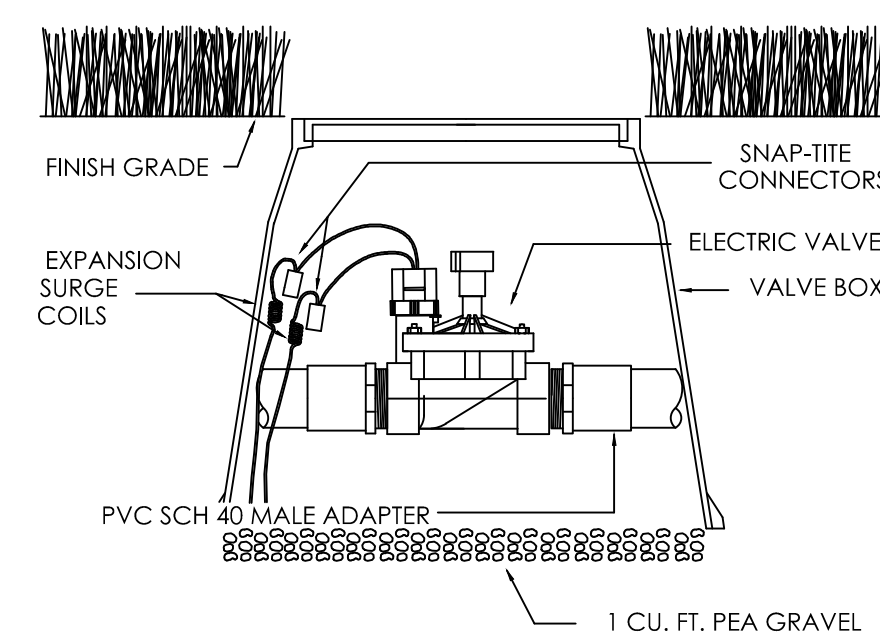
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3/7/23



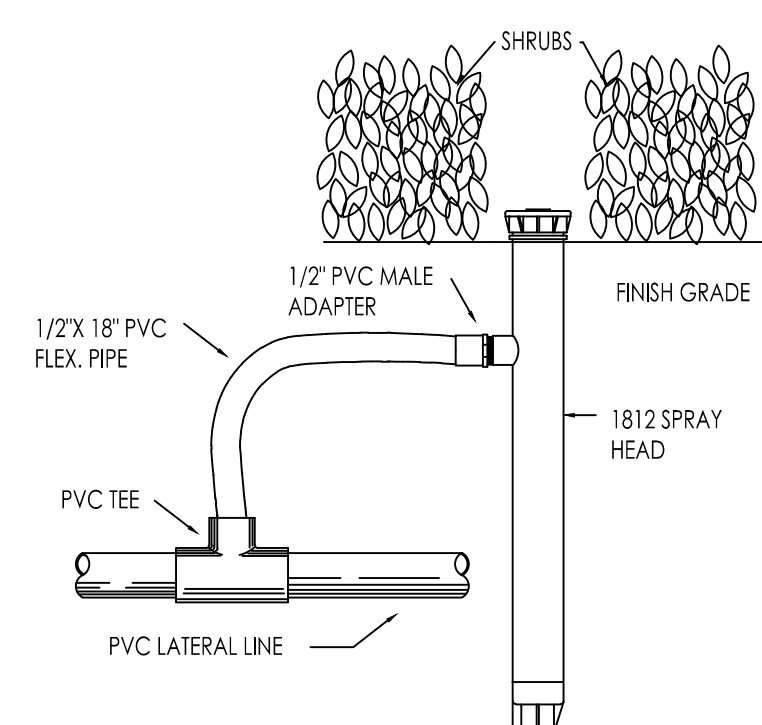
## IRRIGATION DETAILS




RAINBIRD WALL MOUNT IRRIGATION CONTROLLER



RAINBIRD MODEL PGA SERIES ELECTRIC VALVE



RAINBIRD MODEL 1812 12" POP-UP SPRAY HEAD


  
 SCHWEIZER BOJACK LANDSCAPE ARCHITECTURE  
 SCHWEIZER BOJACK LANDSCAPE ARCHITECTURE LLC  
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 LICENSE NO. LC26000487 • DESIGN@SCHWEIZERBOJACK.COM  
 CONDEV HILLS OF MINNEOLA PUD - AREA 5, POD 19  
 CITY OF MINNEOLA, FLORIDA  
 2/10/22  
 DRAWN BY: KB  
 SHEET NUMBER  
 L-5



**FARMER**  
ARCHITECTURE  
Daniel H. Farmer, A.I.A.  
License # AR10750  
941 Lake Baldwin Lane  
Orlando, FL 32814  
t 321.441.3320

SEAL:

Daniel H. Farmer - AR10750

CONSULTANT:

**ELEVATION KEYNOTE 3:** (X) →

- 1 → LIGHT GRAY
- 2 → MEDIUM GRAY
- 3 → MEDIUM-DARK GRAY
- 4 → DARK GRAY
- 5 → BLUE/ACCENT NOT USED
- 6 → THIN BRICK VENEER DESIGN BASED ON ACMEBRICK ABOVE THIN BRICK, WESTCHESTER OR APPROVED EQUAL COLOR: GRAY

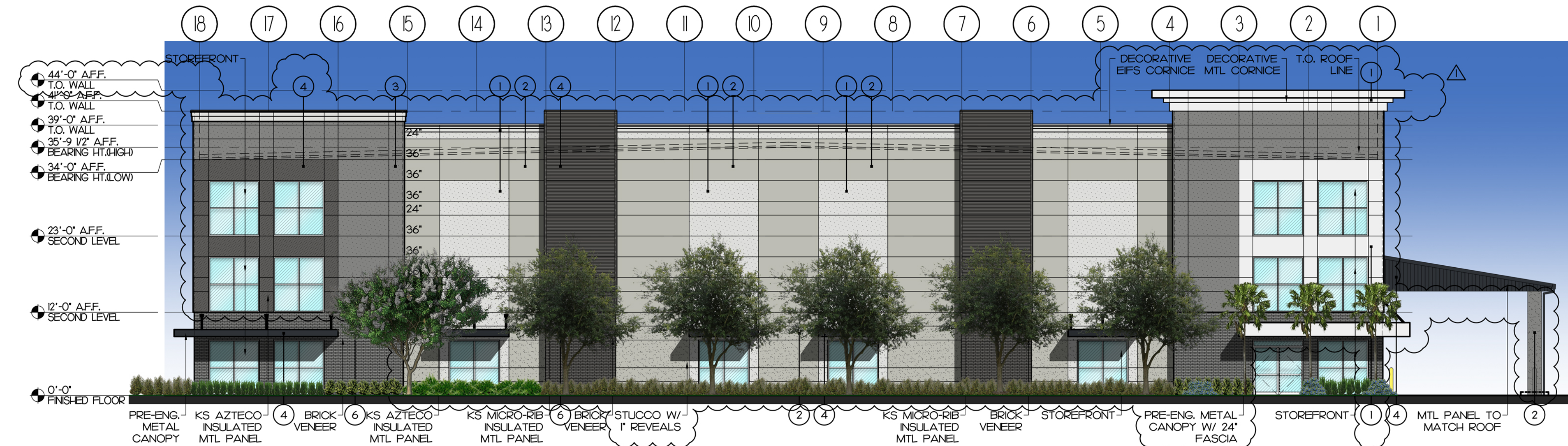
**NOTES**

1. ALL TRIM FLASHING TO MATCH ADJACENT COLOR.
2. STOREFRONT SYSTEM:
  - FINISH: CLEAR ANODIZED ALUMINUM
  - GLAZING: A. CLEAR LOW-E WITH 60% MIN. TRANSMITTANCE
3. PAINTED SURFACES APPLIED PER MANUFACTURER'S SPECIFICATIONS BUT NOT LESS THAN THE FOLLOWING:
  - CMU: ONE COAT PRIMER/FILLER AND TWO COATS OF PAINT MINIMUM OVER WATER RESISTIVE BARRIER.
  - STUCCO: ONE COAT PRIMER/FILLER AND TWO COATS OF PAINT MINIMUM OVER STUCCO FINISH.
4. ROOF EQUIPMENT WILL BE CONCEALED BEHIND PARAPET WALLS.

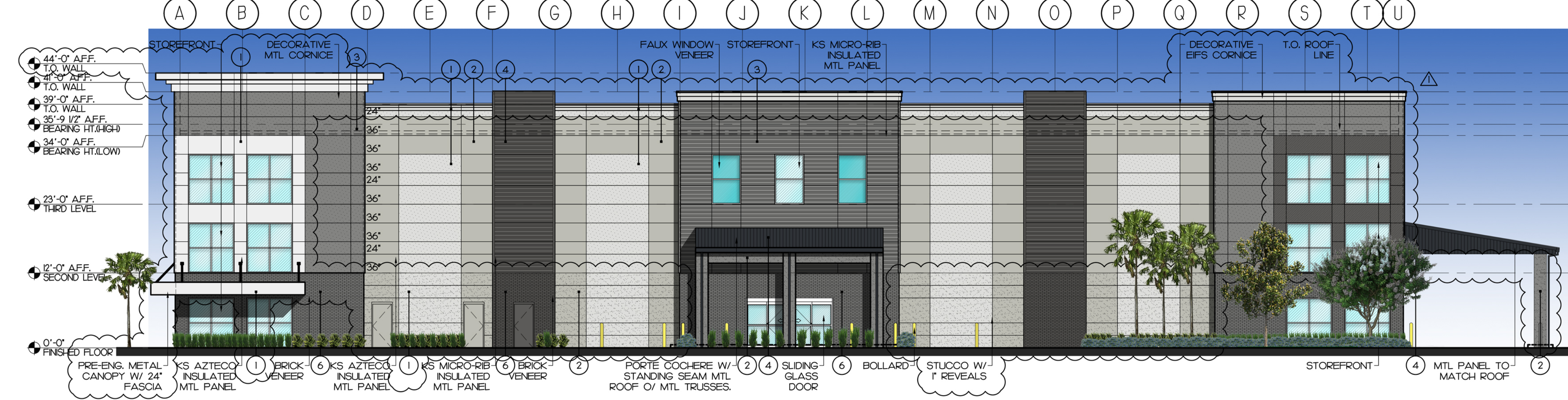
**EXTERIOR INSULATED METAL PANELS**

KINGSPAN 3" INSULATED METAL WALL PANEL  
KS SERIES OR APPROVED EQUAL:  
- KS AZTECO  
- KS MICRO-RIB

PRODUCT APPROVAL:  
FPA FL # 31365-RI



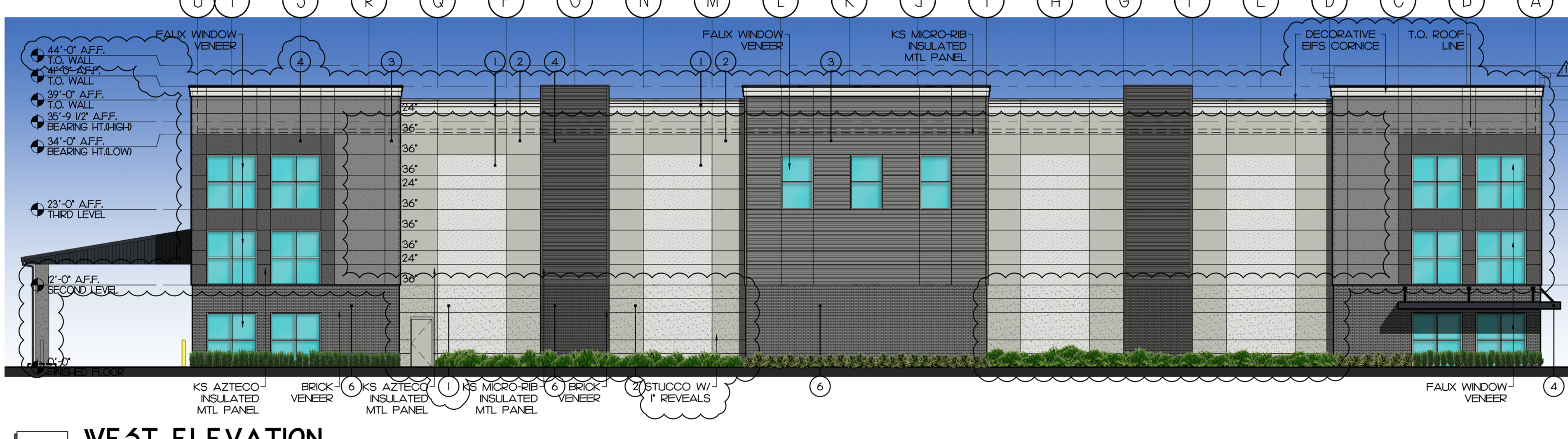
**1 SOUTH ELEVATION**  
SCALE: 3/32" = 1'-0"



**2 EAST ELEVATION**  
SCALE: 3/32" = 1'-0"

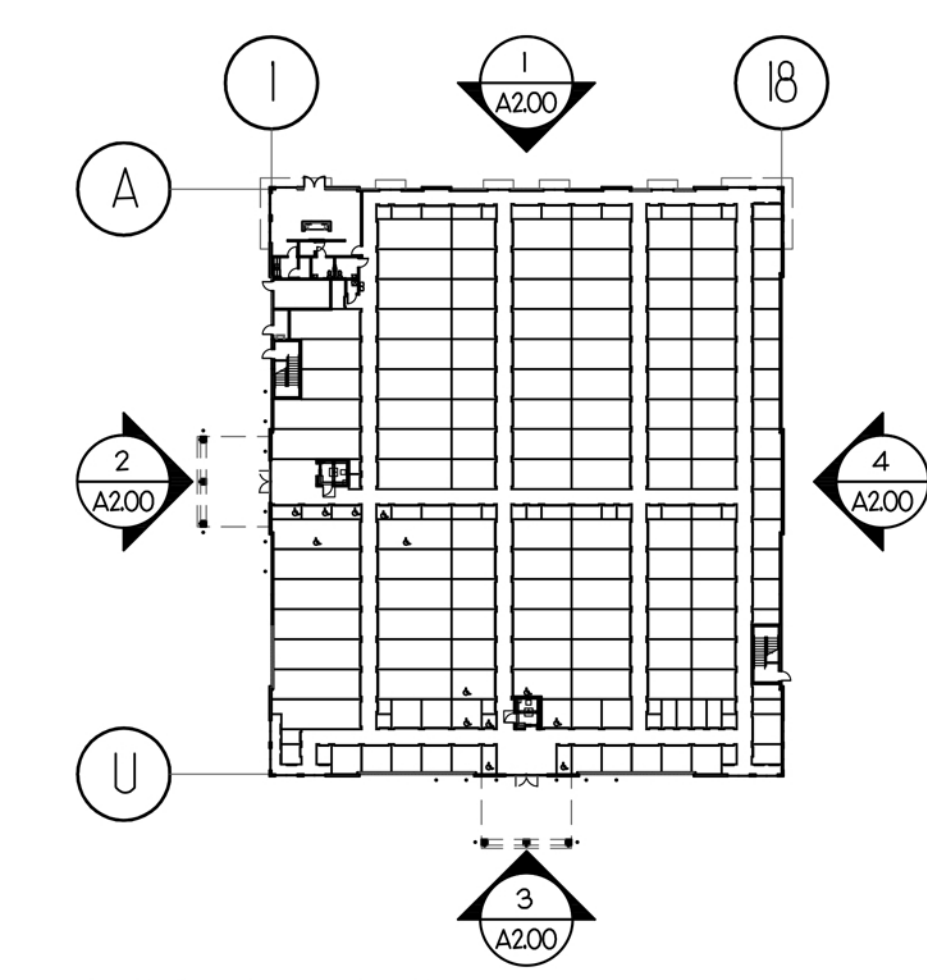


**3 NORTH ELEVATION**  
SCALE: 3/32" = 1'-0"



**4 WEST ELEVATION**  
SCALE: 3/32" = 1'-0"

Approved by City Council  
3/7/23



**KEY PLAN**  
SCALE: N.T.S.

PROJECT DESCRIPTION:  
**CONDEV - MINNEOLA SELF STORAGE**

Citrus Grove Road  
Minneola, FL

REVISIONS  
2/05/22 SITE-CITY REVIEW COMA

DATE: 03/03/22  
PROJECT: 20062  
DRAWN: AR  
CHECKED: D. FARMER

**A2.00**  
EXTERIOR ELEVATIONS

PERMIT SET

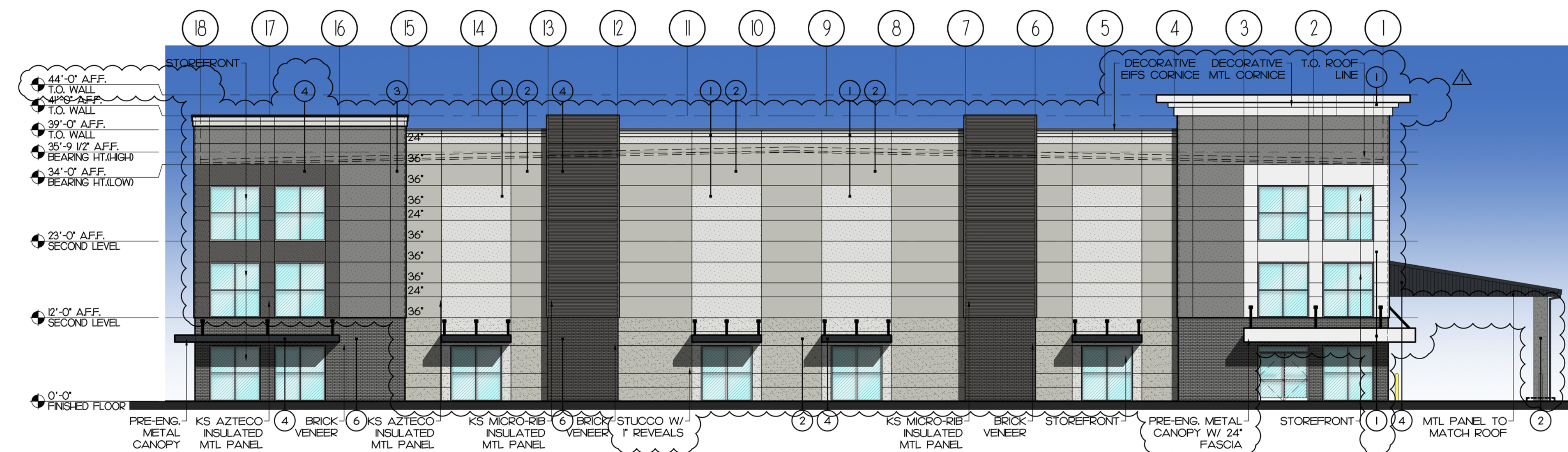


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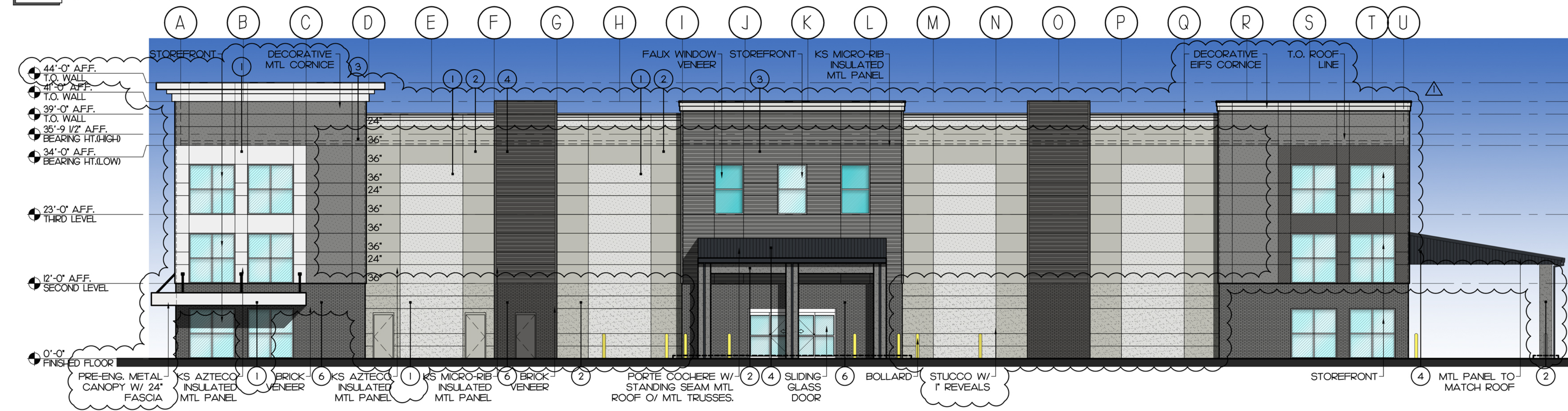
SEAL:

Daniel H. Farmer - AR10750

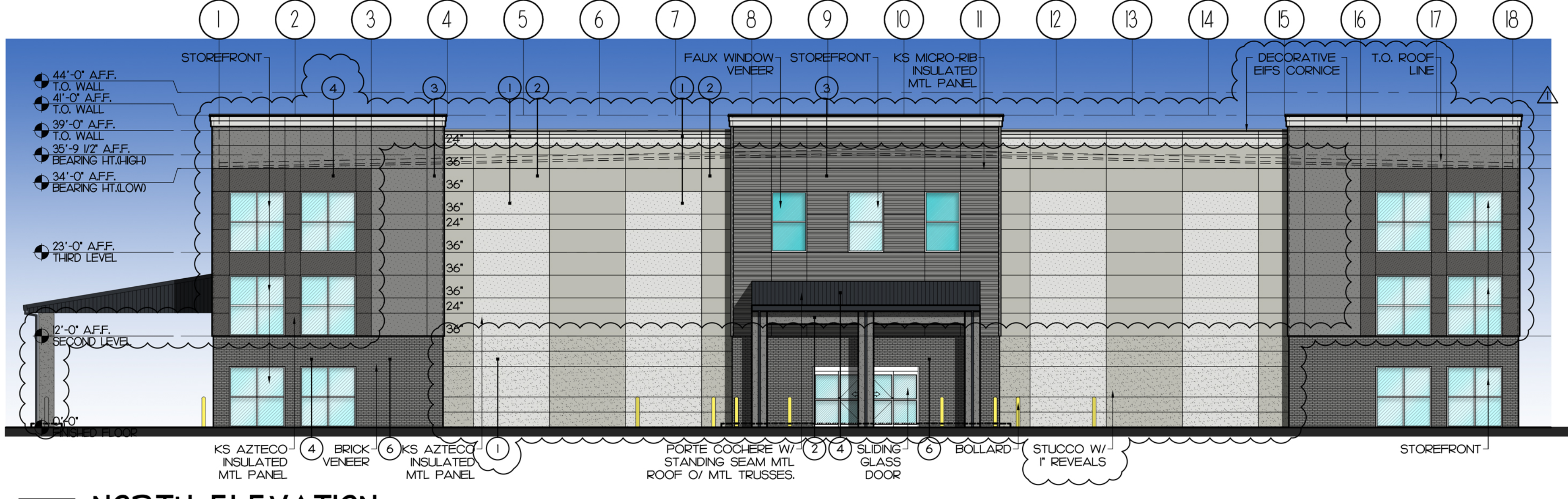
CONSULTANT:



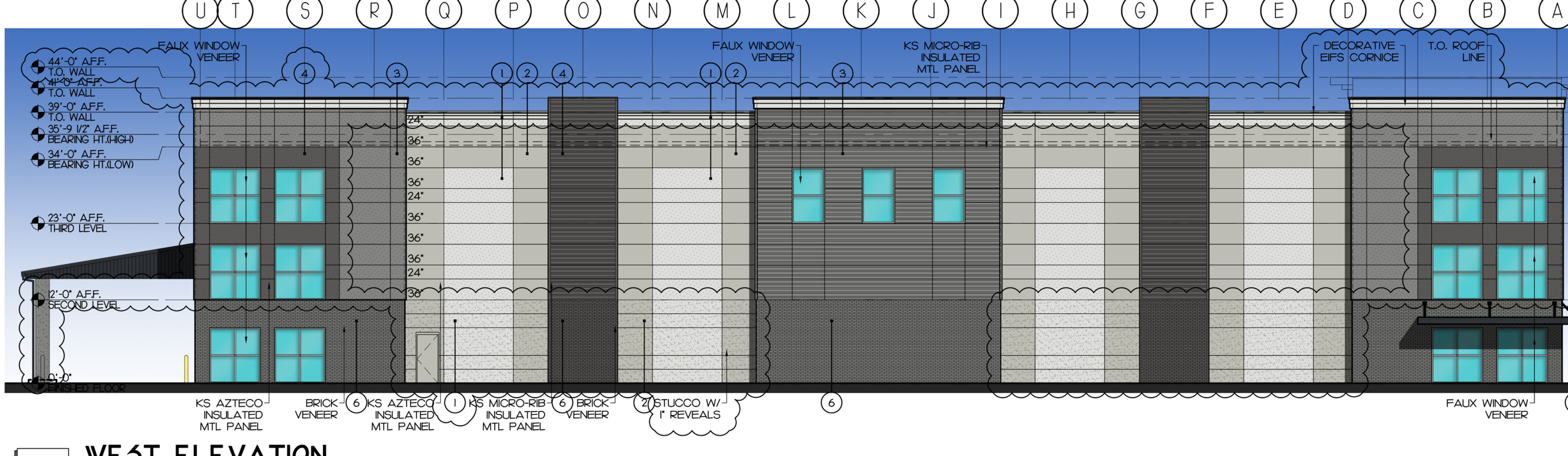
**1 SOUTH ELEVATION**  
SCALE: 3/32" = 1'-0"



**2 EAST ELEVATION**  
SCALE: 3/32" = 1'-0"



**3 NORTH ELEVATION**  
SCALE: 3/32" = 1'-0"



**4 WEST ELEVATION**  
SCALE: 3/32" = 1'-0"

**ELEVATION KEYNOTE 3: X**

- 1 LIGHT GRAY
- 2 MEDIUM GRAY
- 3 MEDIUM-DARK GRAY
- 4 DARK GRAY
- 5 BLUE ACCENT NOT USED
- 6 THIN BRICK VENEER DESIGN BASED ON ACMEBRICK ABOVE THINBRICK, WESTCHESTER OR APPROVED EQUAL COLOR: GRAY

**NOTES**

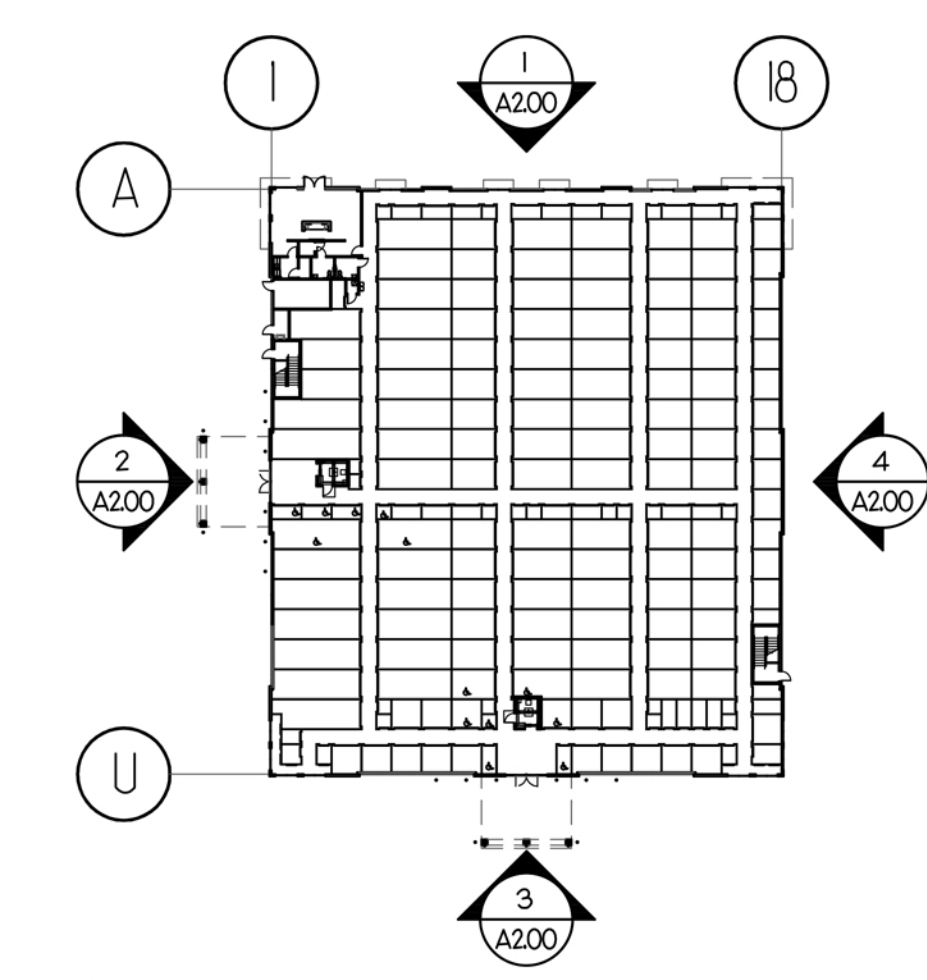
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KINGSPAN 3" INSULATED METAL WALL PANEL  
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**A2.00**  
EXTERIOR ELEVATIONS

PERMIT SET

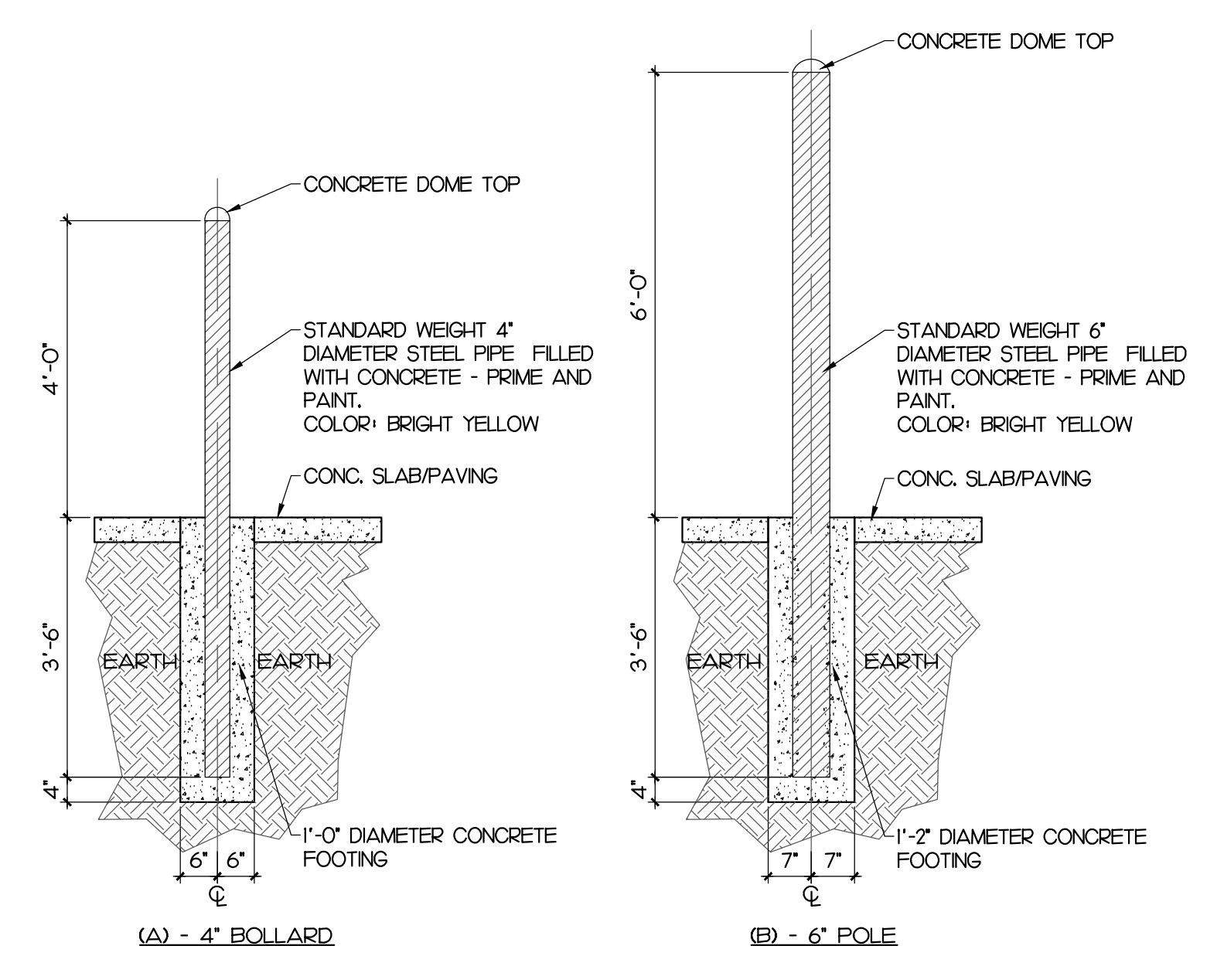
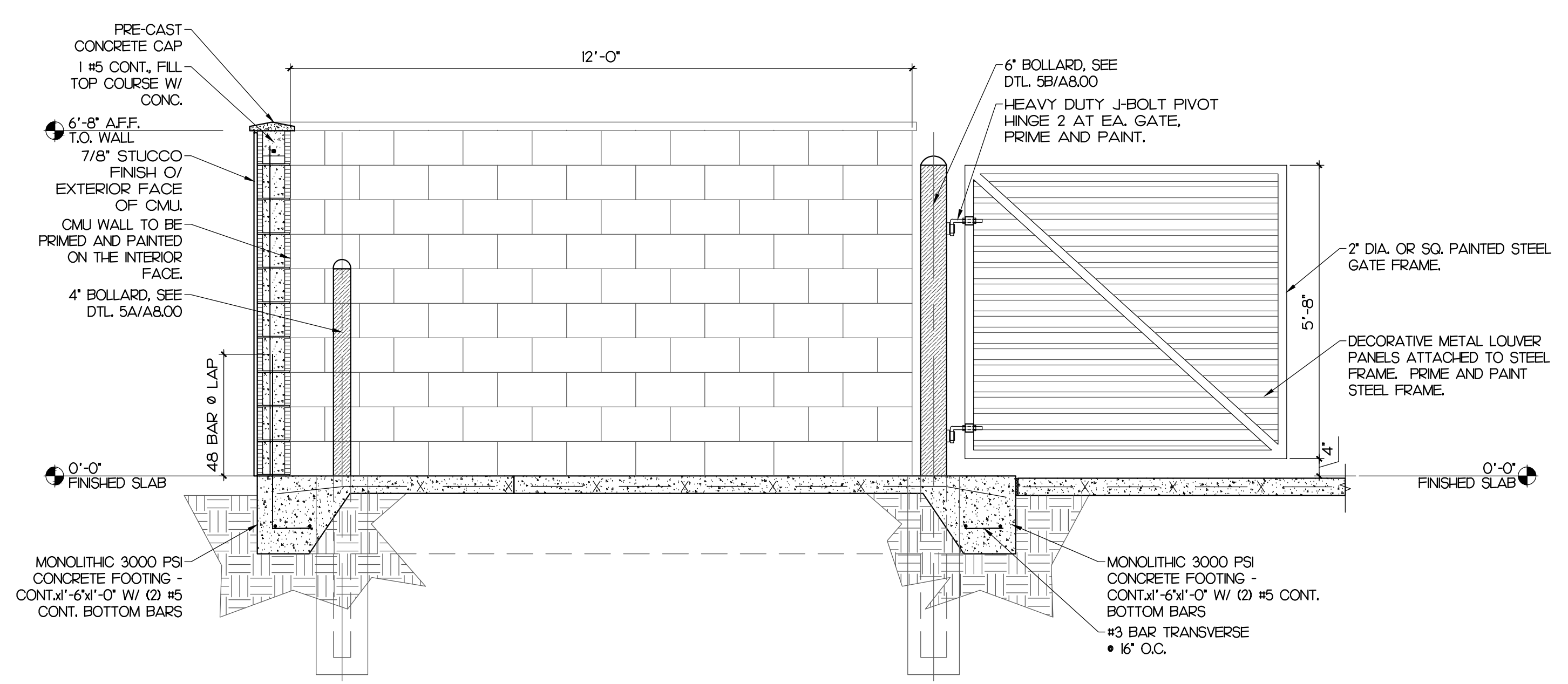
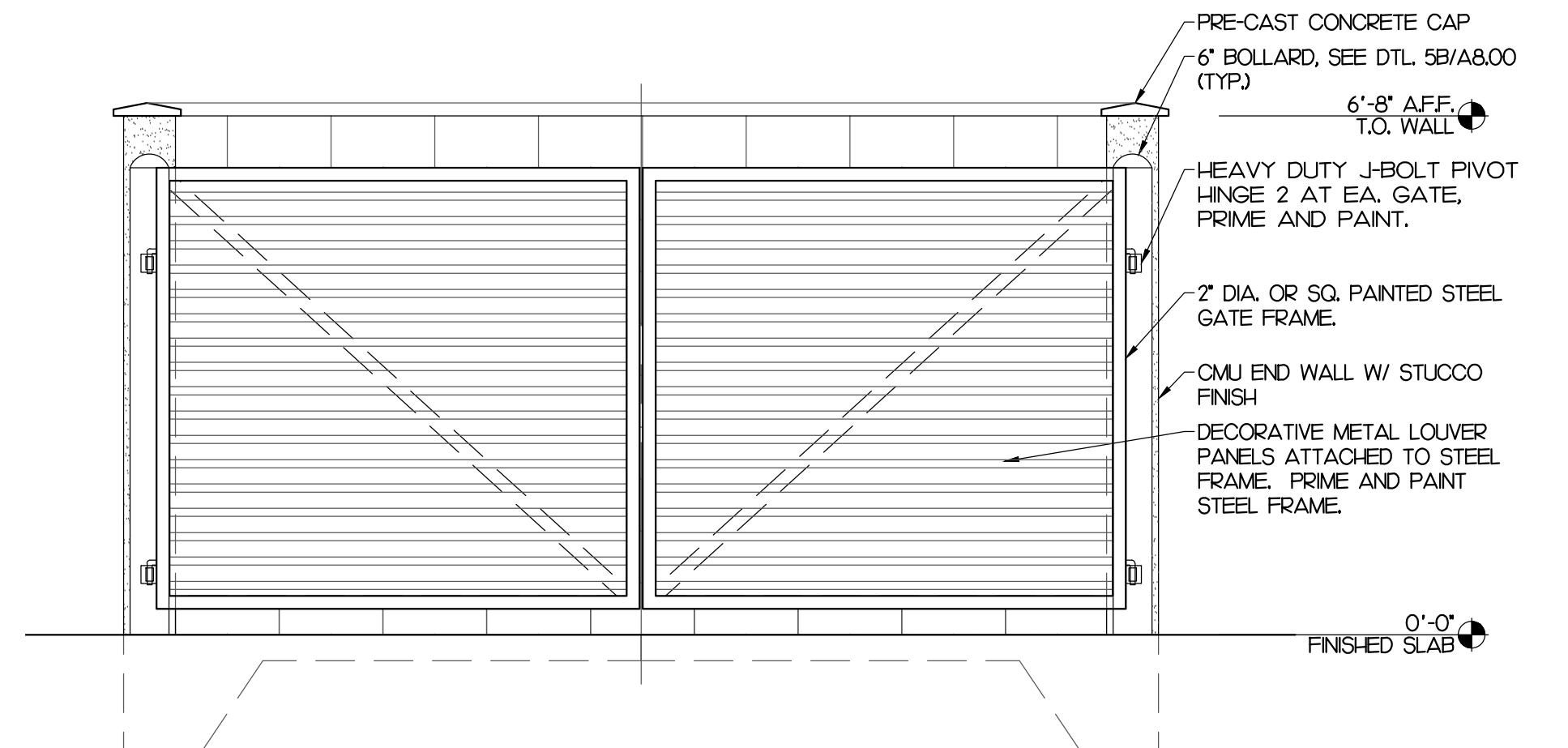
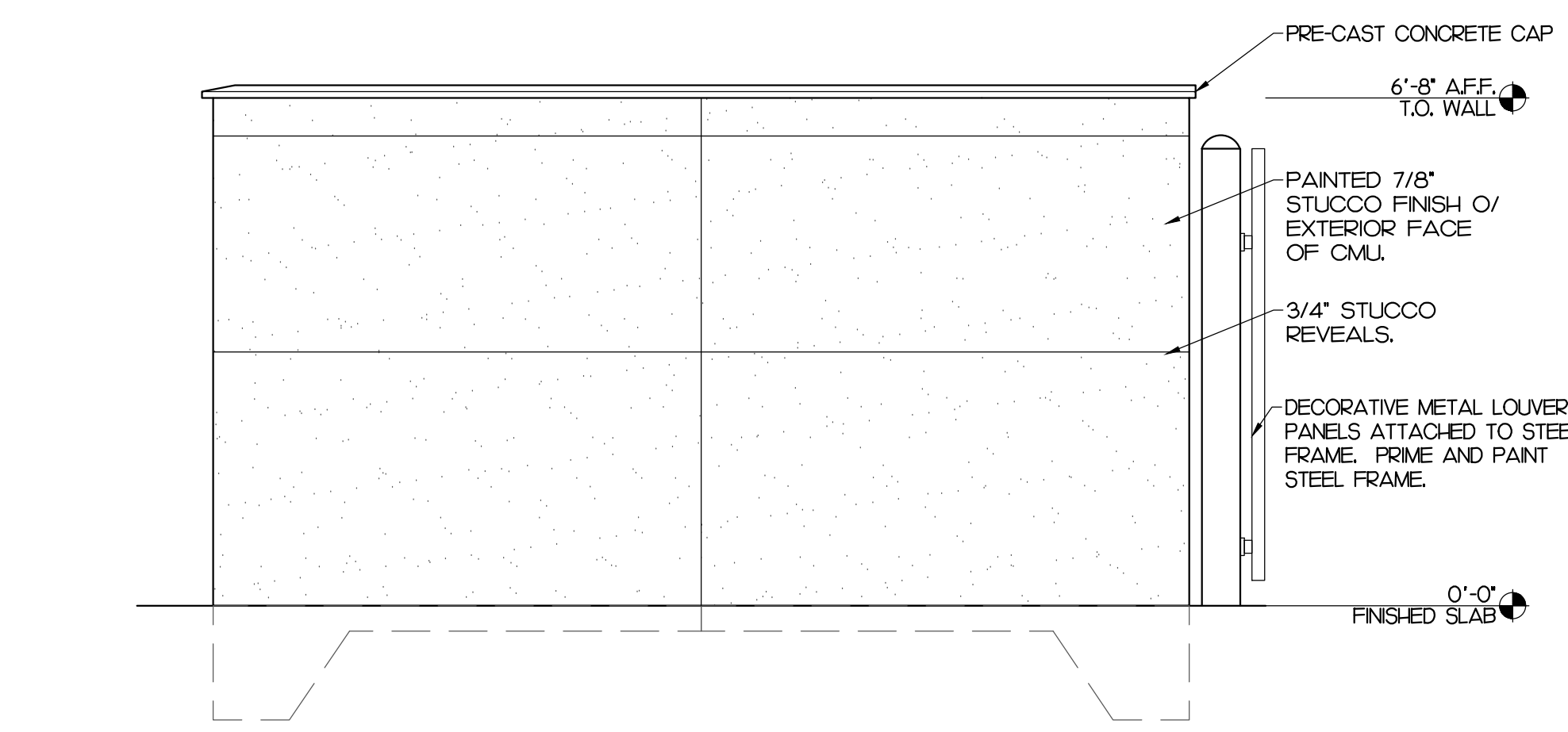
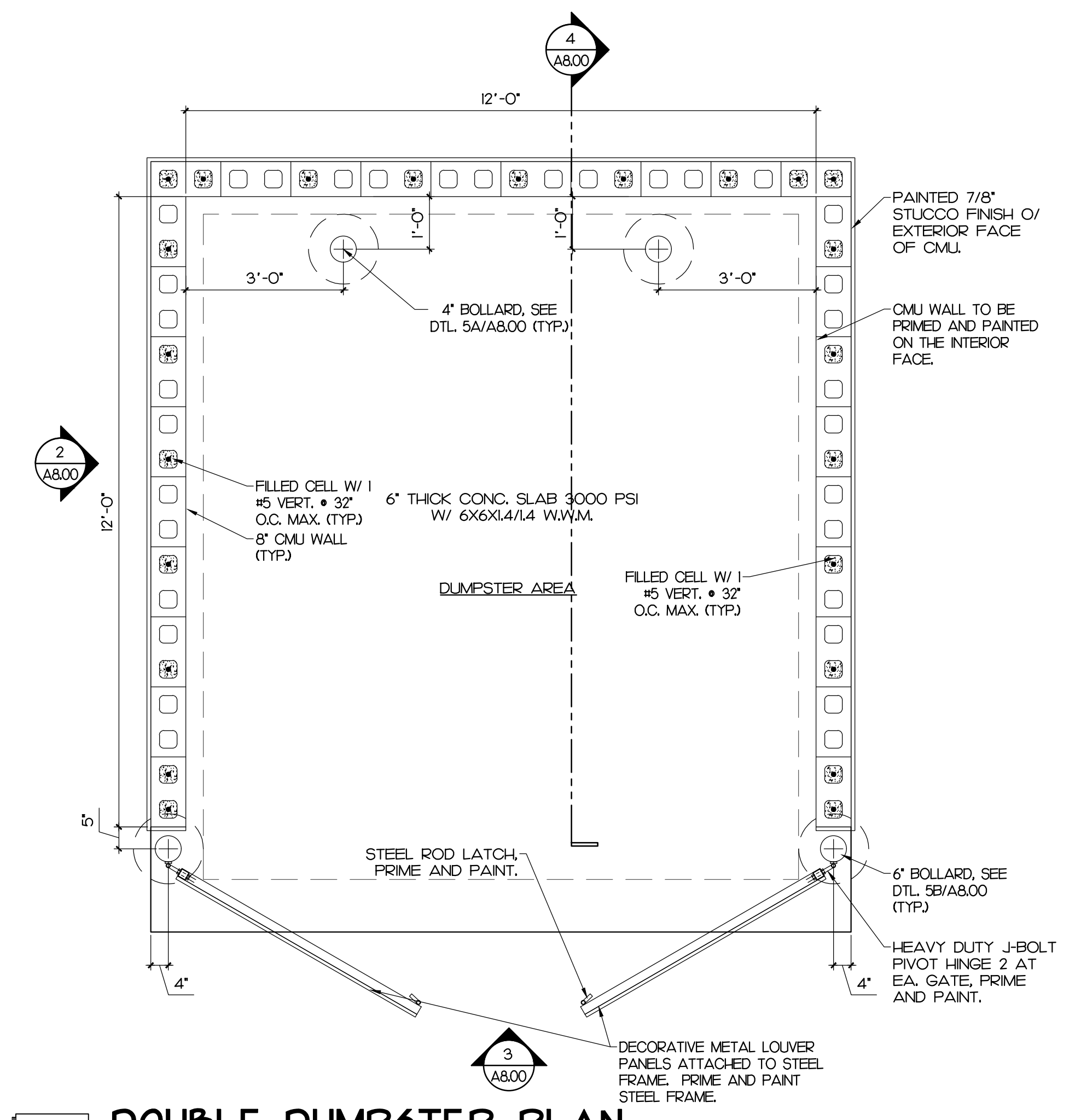
UNREFERENCED NOTES	
1.	REFER TO SITE/CIVIL DRAWINGS FOR DUMPSTER LOCATIONS AND QUANTITIES.
2.	GATE, HARDWARE, FRAME, AND EXTERIOR BOLLARD, COLOR: BLACK.
3.	INTERIOR BOLLARD, COLOR: YELLOW.
4.	EXTERIOR WALL FINISH TO MATCH BUILDING COLORS.
5.	INTERIOR FACE OF CMU WALL, COLOR: WHITE.

DESIGN LOADS	
FLORIDA BUILDING CODE 7TH EDITION 2020	
WIND LOAD DESIGN	
ULTIMATE DESIGN WIND SPEED Vult 140 MPH	
NORMAL DESIGN WIND SPEED Vnd 109 MPH	
RISK CATEGORY:	I
WIND EXPOSURE:	B
WIND DIRECTION:	NORMAL
ENCLOSURE:	OPEN STRUCTURE
WIND PRESSURE:	30PSF



**FARMER ARCHITECTURE**  
 Daniel H. Farmer, A.I.A.  
 License # AR10750  
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 Orlando, FL 32814  
 t 321.441.3320



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 Citrus Grove Road  
 Minneola, FL

PERMIT SET

DATE: 03/03/22  
 PROJECT: 20062  
 DRAWN: AR  
 CHECKED: D. FARMER

**A8.00**  
 DUMPSTER PLAN,  
 ELEVATIONS & SECTIONS