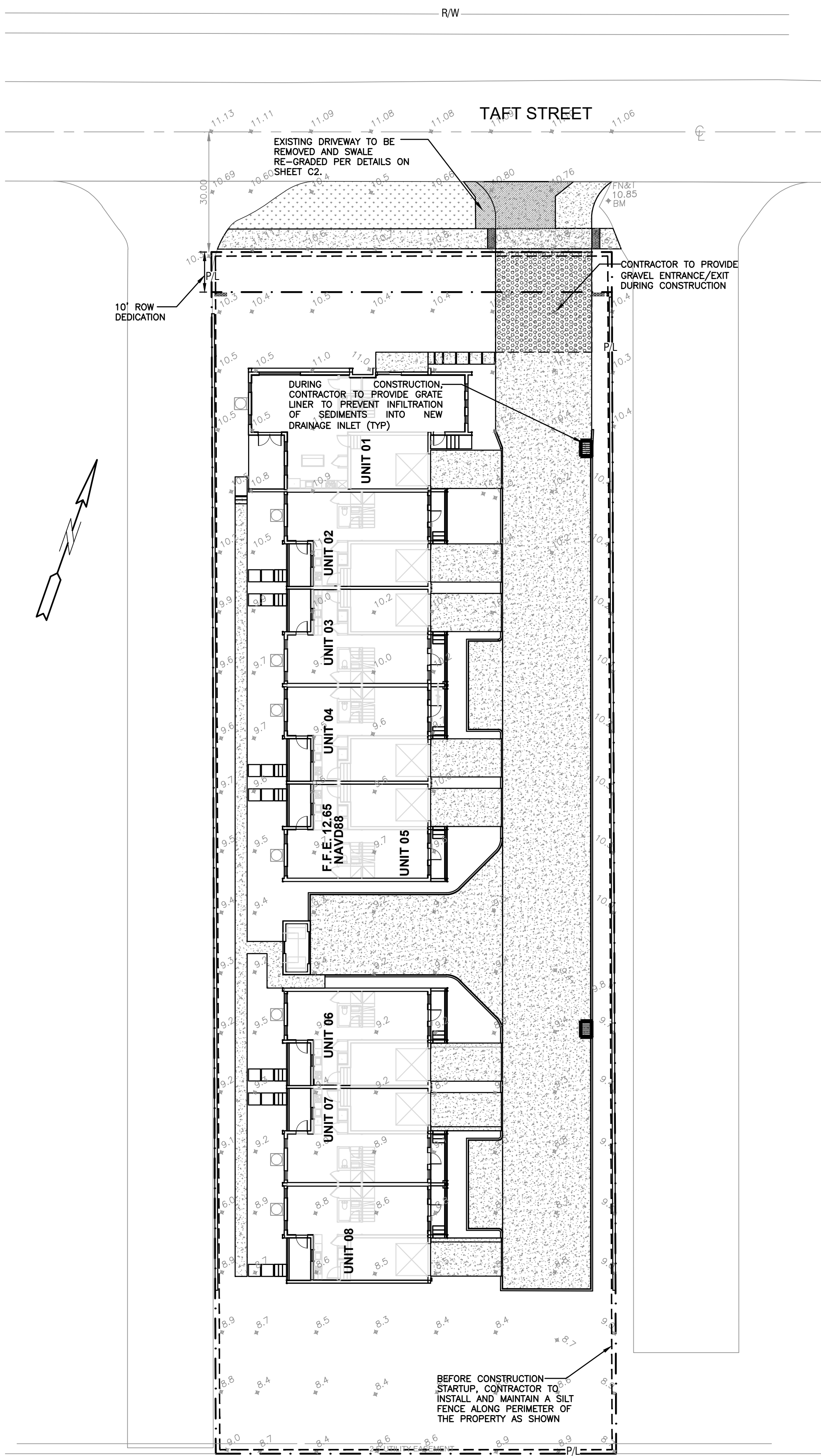


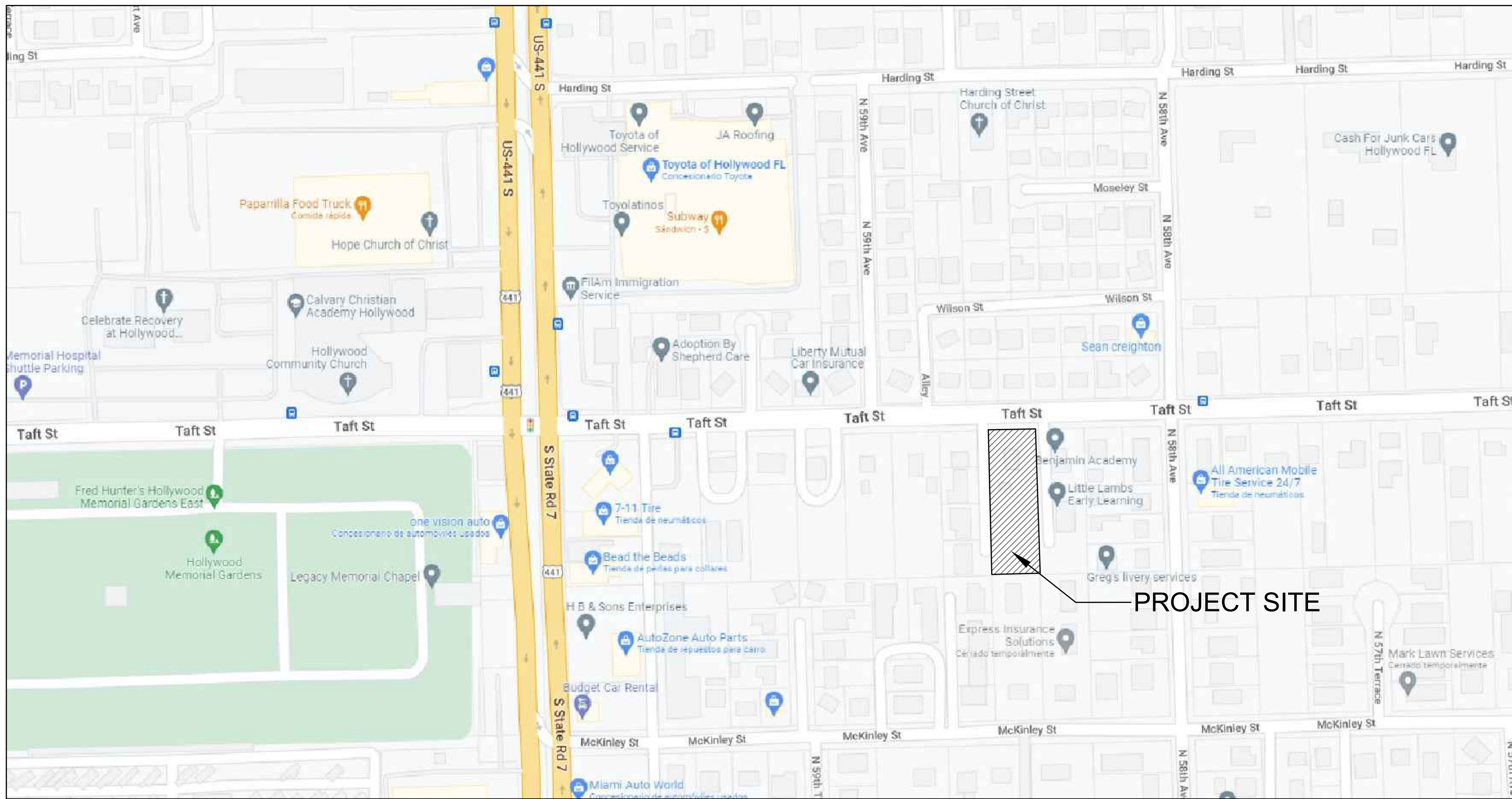
ATTACHMENT A

Application Package

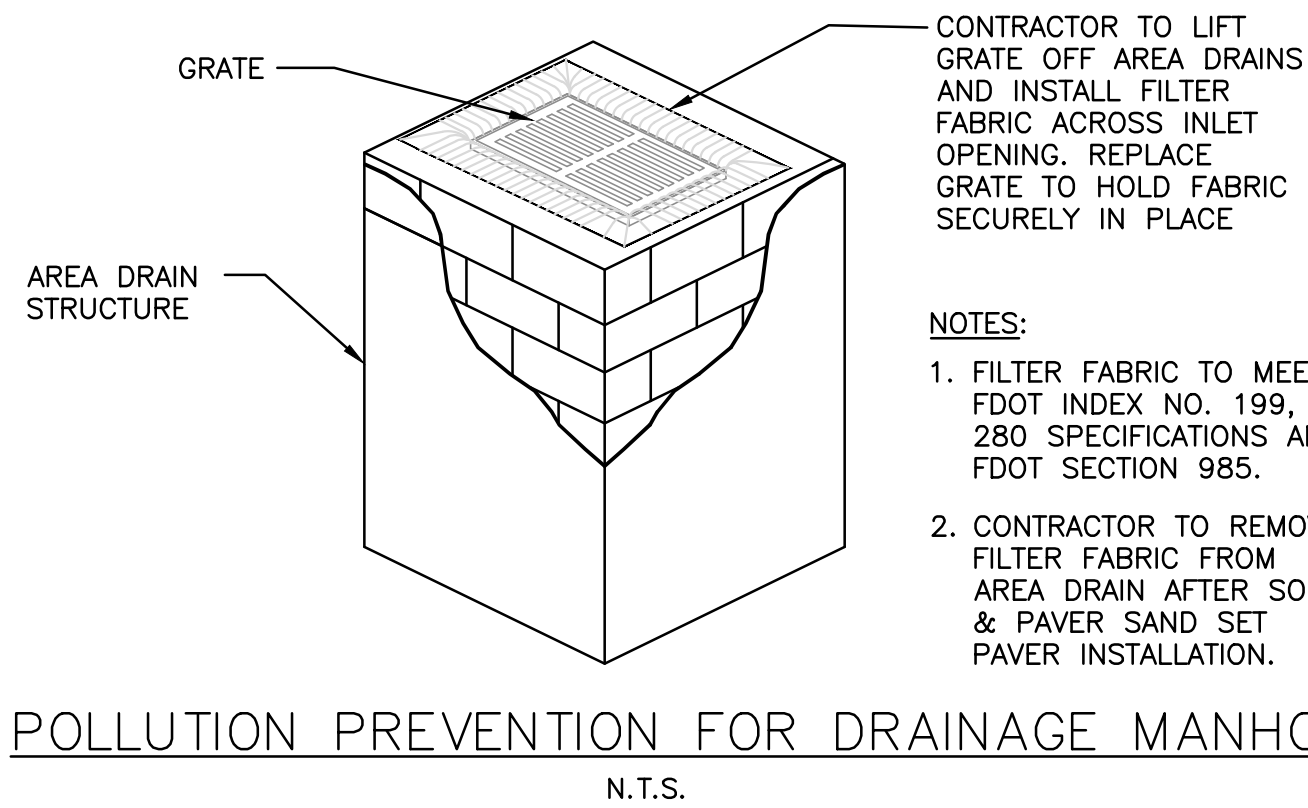
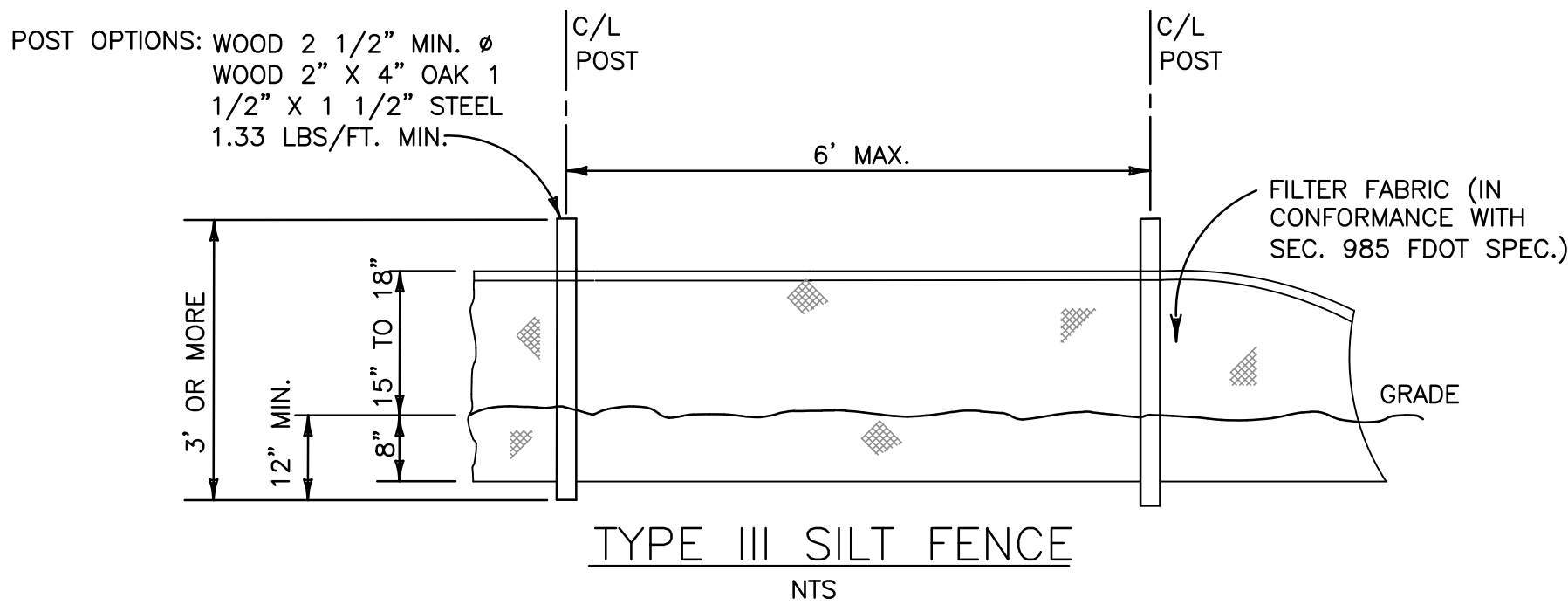
ALL ELEVATIONS ARE REFERENCED
TO NAVD88 VERTICAL DATUM



LEGEND	
	PROPOSED CONCRETE
	PROPOSED PAVERS
	PROPOSED GRADE
	EXISTING ELEVATION
	PROPOSED AREA DRAIN
	EXISTING FIRE HYDRANT
	PROPOSED WATER METER
	EXISTING WATER METER
	PROPOSED BFP DEVICE
	EXISTING SAN. SEWER MH



LOCATION MAP
NOT TO SCALE

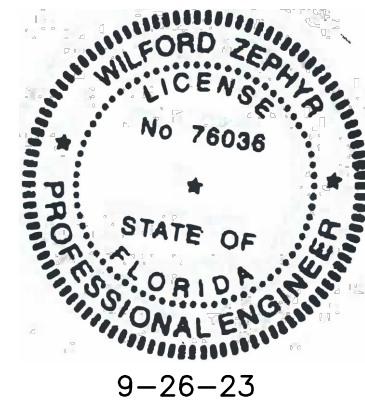


- NOTES:
1. FILTER FABRIC TO MEET FDOT INDEX NO. 199, 280 SPECIFICATIONS AND FDOT SECTION 985.
 2. CONTRACTOR TO REMOVE FILTER FABRIC FROM AREA DRAIN AFTER SOD & PAVER SAND SET PAVEMENT INSTALLATION.

- BMP NOTES:
1. ALL SEDIMENT CONTROL MEASURES ARE TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON BALANCE OF SITE. PERIMETER SEDIMENT BARRIERS SHALL BE CONSTRUCTED TO PREVENT SEDIMENT OR TRASH FROM FLOWING OR FLOATING ON TO ADJACENT PROPERTIES.
 2. PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES MUST BE PROVIDED TO ENSURE INTENDED PURPOSE IS ACCOMPLISHED. THE DEVELOPER, OWNER AND/OR CONTRACTOR SHALL BE CONTINUALLY RESPONSIBLE FOR ALL SEDIMENT CONTROLS. SEDIMENT CONTROL MEASURES SHALL BE IN WORKING CONDITION AT THE END OF EACH WORKING DAY.
 3. SEDIMENT WILL BE PREVENTED FROM ENTERING ANY STORM WATER SYSTEM, DITCH OR CHANNEL. ALL STORMWATER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
 4. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PUBLIC ROAD SURFACE WITH CURBS AND GUTTERS, THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL SUBDIVISION LOTS AS WELL AS TO LARGER LAND DISTURBING ACTIVITIES.
 5. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN UNDISTURBED FOR LONGER THAN THIRTY (30) DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT UNDISTURBED FOR MORE THAN ONE YEAR.
 6. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES SHALL BE STABILIZED, COVERED OR CONTAINED WITH SEDIMENT TRAPPING MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
 7. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
 8. PROPERTIES AND WATER WAYS DOWNSTREAM FROM CONSTRUCTION SITE SHALL BE PROTECTED FROM SEDIMENT DEPOSITION AND EROSION AT ALL TIMES DURING CONSTRUCTION.
 9. CONTRACTOR IS RESPONSIBLE FOR ALL SURFACE WATER DISCHARGES, RAINFALL RUN OFF OR DEWATERING ACTIVITIES.
 10. CONTRACTOR MUST INCORPORATE ALL BMP'S NECESSARY TO MEET OR EXCEED STATE WATER QUALITY AND SWPPP REQUIREMENTS.
 11. THE POLLUTION PREVENTION PLAN IS A MINIMUM GUIDELINE ONLY. ADDITIONAL BMP'S MAY BE NECESSARY AT CONTRACTOR'S EXPENSE.

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WILFORD ZEPHYR ON THE DATE ADJACENT TO THE SEAL.

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ON ANY ELECTRONIC COPIES.



EROSION & SEDIMENT CONTROL PLAN
SCALE: 1"=20'

REVISIONS	
NO.	DATE
1	5-16-23

ZEPHYR ENGINEERING

ZE

5824 TAFT TOWNHOMES
5824 TAFT STREET
HOLLYWOOD, FL 33021

P.E.#:76036

DATE: 9/8/22

SCALE: 1"=20'

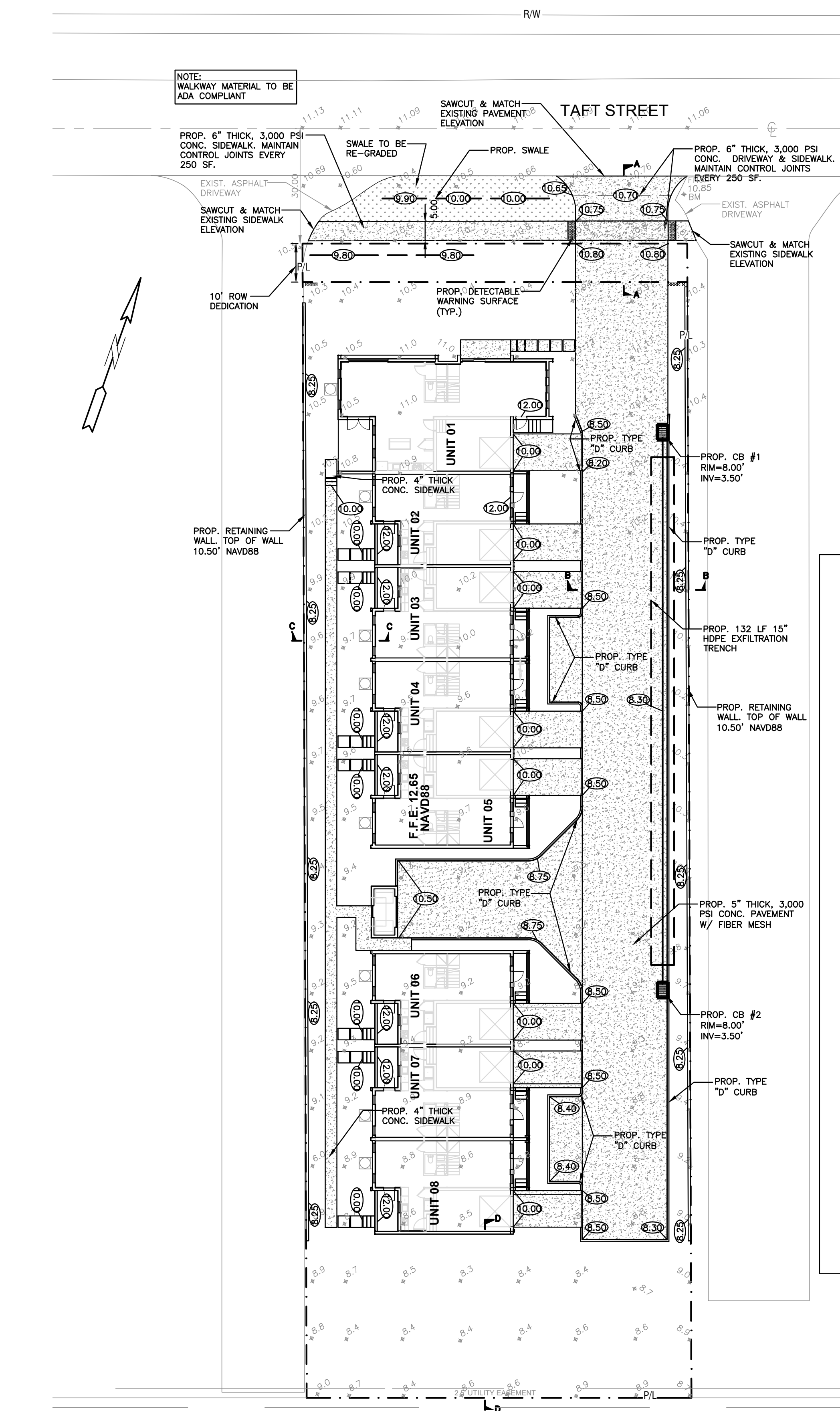
SHEET NO.:

C1












1 OF 5

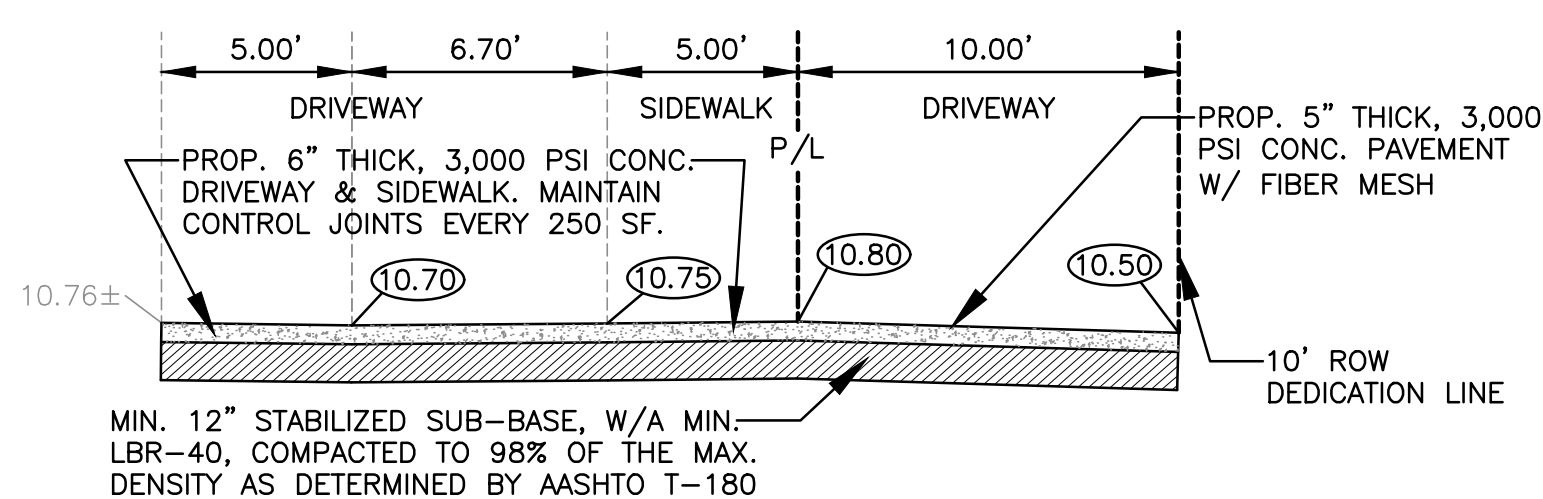
PROJECT NO.: 21-67

ALL ELEVATIONS ARE REFERENCED
TO NAVD88 VERTICAL DATUM

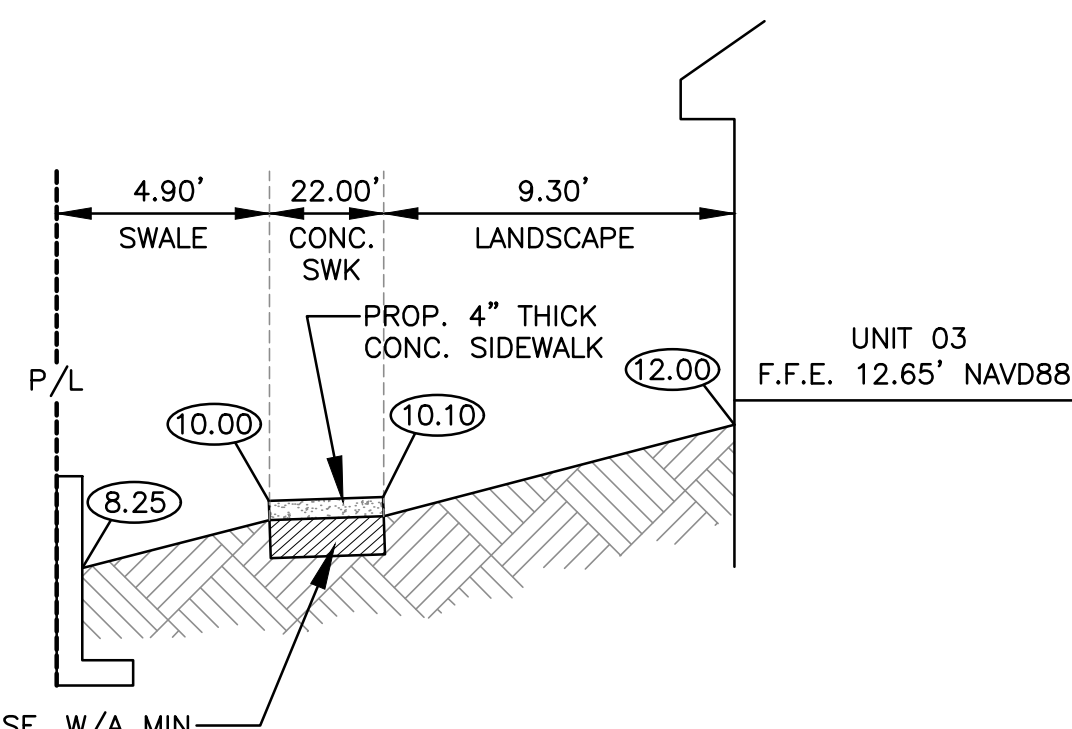


LEGEND

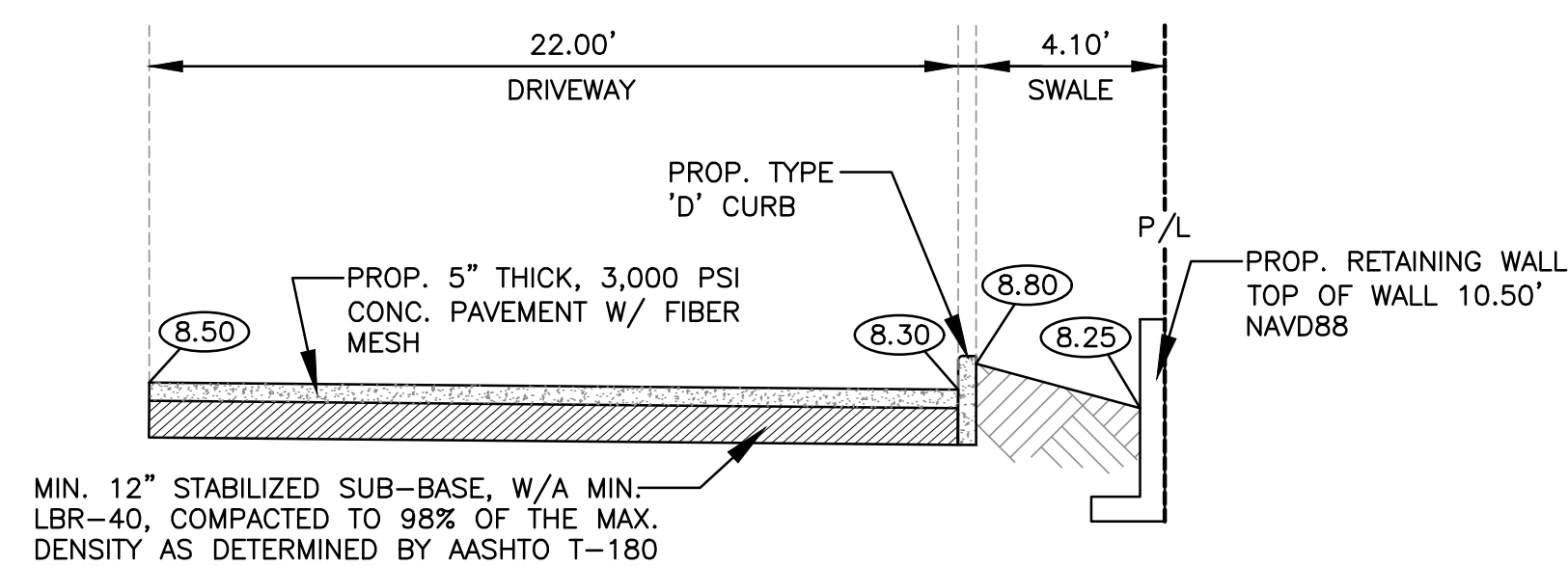
- | | | | |
|---|-----------------------|---|------------------------|
|  | PROPOSED CONCRETE |  | PROPOSED WATER METER |
|  | PROPOSED PAVERS |  | EXISTING WATER METER |
|  | PROPOSED GRADE |  | EXISTING WATER VALVE |
|  | EXISTING ELEVATION |  | PROPOSED BFP DEVICE |
|  | PROPOSED AREA DRAIN |  | EXISTING SAN. SEWER MH |
|  | EXISTING FIRE HYDRANT | | |



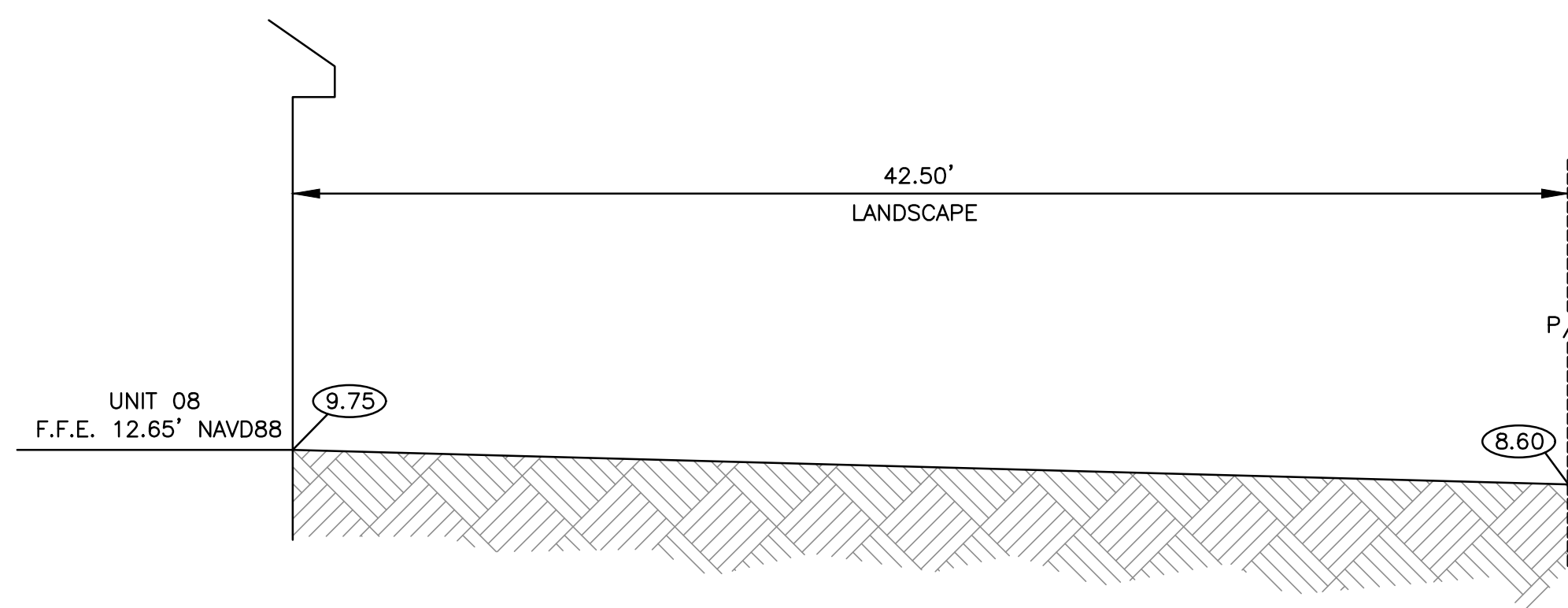
SECTION A-A
N.T.S.



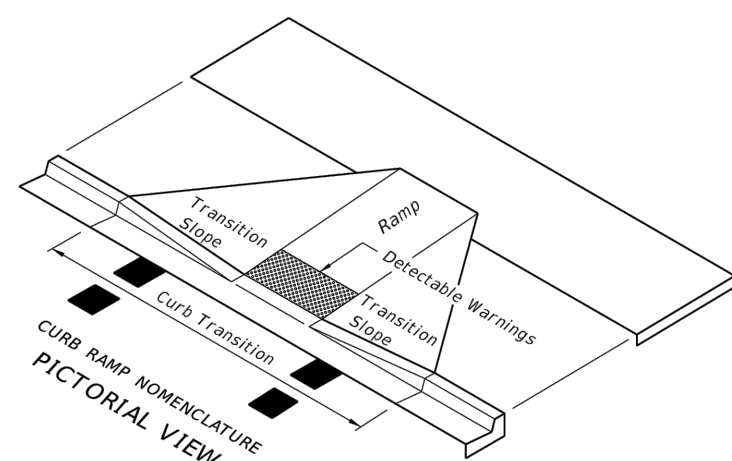
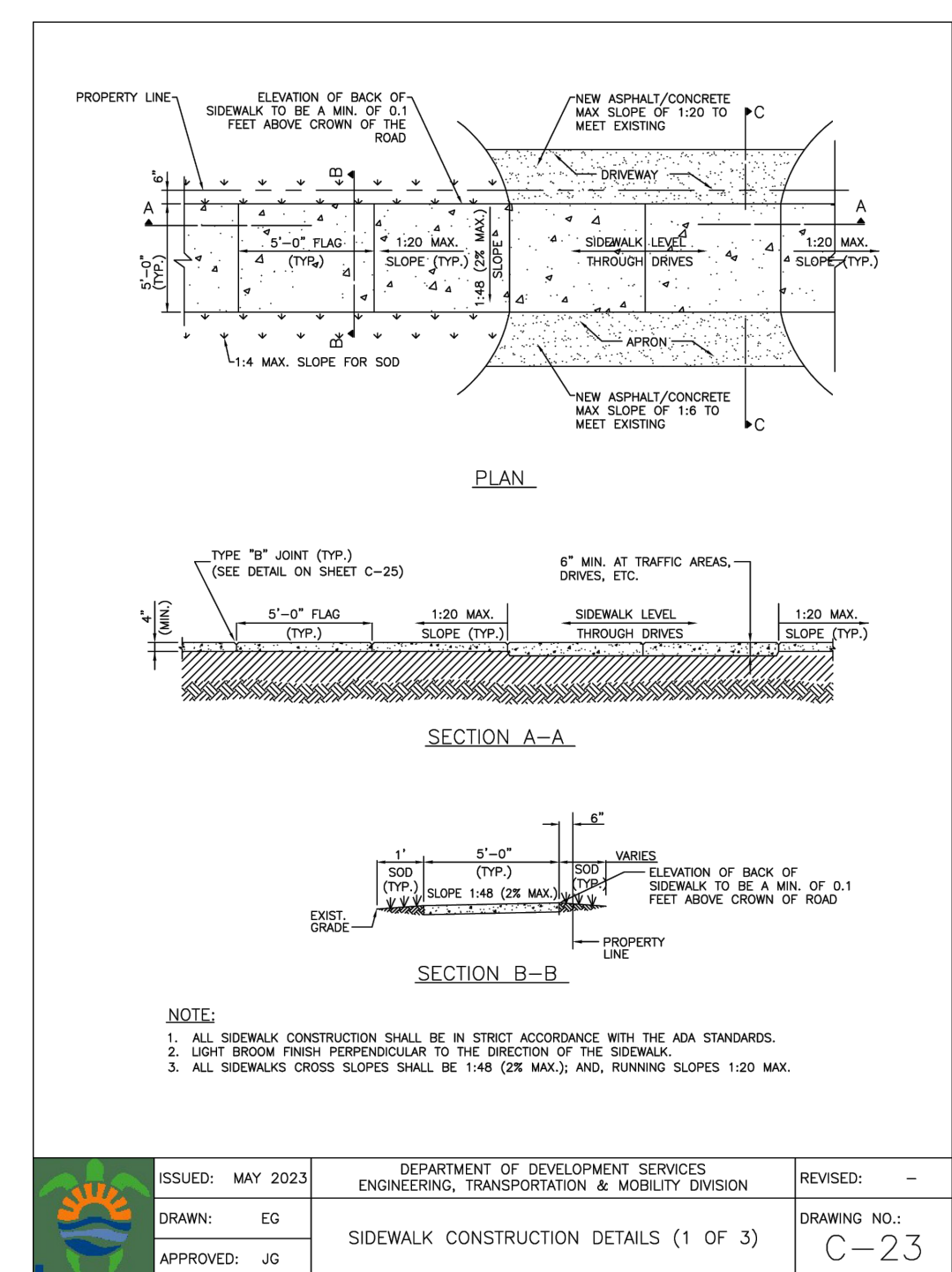
SECTION C-C
N.T.S.



SECTION B-B
N.T.S.




SECTION D-D
N.T.S.



LEGEND

- ## GENERAL NOTES
1. Sidewalk curb ramps shall be constructed at locations that will provide continuous unobstructed pedestrian circulation path to pedestrian areas, elements and facilities within the right of way and to accessible pedestrian routes on adjacent sites. Curbed facilities with sidewalks and those without sidewalks may have one or more crosswalks, crosswalk intersections and turnouts with curbed returns. To accommodate curb ramps, partial curb returns are to extend to the limits prescribed in Index No. 511. The curb return shall be constructed with the sidewalks are to have a landing constructed at the top of the curb ramp. See LANDINGS FOR CURB RAMPS WITH SIDEWALKS.
 2. When altering existing pedestrian facilities, where existing restrictions and conditions preclude the accommodation of a ramp slope of 1:12, a ramp slope between 1:12 and 1:10 is permitted for a rise of 6" maximum. Where compliance with the requirements for cross slope cannot be fully met, the minimum transverse cross slope shall be otherwise. Ramp slopes are not required to exceed 1:15 in length.
 3. If sidewalk curb ramps are located where pedestrians must walk across the ramp, then provide transverse cross slope to the ramp; otherwise a sidewalk curb may be required.
 4. All sidewalk ramps, and landings with a cross slope of 0.02 shown in this Index are 0.02 maximum. All ramp slopes shown in this Index as 1:12 are 1:12 maximum. Landings shall have slopes less than or equal to 0.02 in any direction.
 5. Grade breaks at the top and bottom of ramps shall be parallel to each other and perpendicular to the direction of the ramp slope.
 6. Where a sidewalk curb ramp is constructed within existing curb, curb gutter and/or sidewalk, the existing curb or curb and gutter shall be removed to the nearest joint beyond the curb transition or to the nearest remaining section of curb or gutter and the curb or gutter shall be less than 5' long. Existing sidewalks shall be removed to the nearest joint beyond the transition slope or to the extent that no remaining section of sidewalk is less than 5' long. For CONCRETE SIDEWALK details refer to Index 310.
 7. Sidewalk curb ramp alpha-identifiers are for reference purposes (plans, permits, etc.). Alpha-identifiers CRP1 and CRP2 are intentionally omitted.
 8. Detectable warnings shall extend the full width of the ramp and to a depth of 2'. Detectable warnings shall be installed in accordance with Section 511.527. For the layout of detectable warnings refer to the TYPICAL PLACEMENT OF DETECTABLE WARNINGS details. Detectable warnings shall not be provided on transition slopes.
 9. When detectable warnings are placed on a slope greater than 5%, domes shall be aligned with the centerline of the ramp; otherwise domes shall be perpendicular to be aligned.
 10. Detectable warnings shall be required on sidewalks at:
 - a. Intersecting roads;
 - b. Median Crossings greater than or equal to 6' in width;
 - c. Railroad Crossings;
 - d. Signalized Intersections.
 11. Detectable Warnings – Accessibility Criteria:
 - a. Color and texture shall be complex and uniform.
 - b. 90% of individual truncated domes shall be in accordance with the Americans with Disabilities Act Standards for Transportation Facilities, Section 705.
 - c. There shall be no more than 2 non-compliant domes in any one square foot.
 - d. Non-compliant domes shall not be adjacent to other non-compliant domes.
 - e. Surfaces shall not deviate more than 0.17" from a true plane.
 12. Detectable warnings shall be installed no greater than 5' from the back of curb or edge of pavement.
 13. Detectable warnings shall not be installed over grade breaks.

LAST REVISION 07/01/13	DESCRIPTION:	 FDOT 2014 DESIGN STANDARDS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX NO. 304	SHEET NO. 1 of 7
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NOTES:

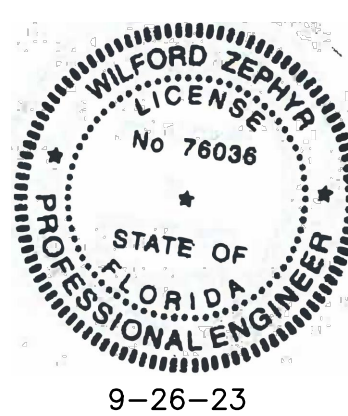
- 1) CONTRACTOR MUST NOTIFY ZEPHYR ENGINEERING OF THE START OF CONSTRUCTION DATE PRIOR TO START OF CONSTRUCTION. ZEPHYR ENGINEERING WILL NOT CERTIFY ANY CONSTRUCTION THAT WAS NOT INSPECTED BY ZEPHYR ENGINEERING, OR ZEPHYR ENGINEERING'S AUTHORIZED REPRESENTATIVE.
- 2) WATER TABLE ELEVATION =2.0' NAVD88 (PER BROWARD COUNTY FUTURE WATER TABLE MAP).
- 3) PROPERTY'S WITHIN FEMA FLOOD ZONE AH10 (B.F.E. 10' NAVD88)
- 4) BROWARD COUNTY 100 YEAR FLOOD ELEVATION=8.5' NAVD88.
- 5) EXISTING ELEVATIONS SHOWN OBTAINED FROM SURVEY PERFORMED BY COUSINS SURVEYORS & ASSOCIATES, INC. PRIOR TO CONSTRUCTION, CONTRACTOR RESPONSIBLE TO FIELD VERIFY ALL EXISTING ELEVATIONS.
- 6) CONTRACTOR MUST COORDINATE PROPOSED IMPROVEMENTS SHOWN ON CIVIL PLANS WITH EXISTING SITE CONDITIONS & PROPOSED PLANS BY THE OTHER DESIGN PROFESSIONALS PRIOR TO CONSTRUCTION. CONTRACTOR MUST ALSO VERIFY THAT THERE ARE NO DISCREPANCIES BETWEEN THE WATER, SEWER & DRAINAGE PLANS THAT MAY CAUSE CONFLICTS PRIOR TO CONSTRUCTION. CONTACT ZEPHYR ENGINEERING IF DISCREPANCIES EXIST.
- 7) PRIOR TO CONSTRUCTION, CONTRACTOR RESPONSIBLE TO DOCUMENT EXISTING CONDITIONS ON AND AROUND THE PROJECT AREA, INCLUDING THE R.O.W. AND ADJACENT PROPERTIES. IT'S RECOMMENDED THAT CONTRACTOR TAKE PHOTOGRAPHS & VIDEOS TO CLEARLY DOCUMENT CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR RESPONSIBLE TO REPAIR ALL DAMAGES CAUSED BY OR AS A RESULT OF THE PROPOSED CONSTRUCTION.
- 8) ALL ROOF DRAINS MUST BE CONNECTED TO THE ONSITE DRAINAGE SYSTEM.
- 9) CONTRACTOR TO REFER TO ARCHITECTURAL PLANS FOR SITE PLAN LAYOUT AND DIMENSIONS.
- 10) EXISTING UTILITIES SHOWN ARE BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR'S RESPONSIBLE TO FIELD VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR TO BE AWARE THAT THERE MAY BE SOME EXISTING UTILITIES ON OR ADJACENT TO THE PROJECT SITE THAT MAY NOT BE SHOWN ON THE CIVIL PLANS, AND CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY THOSE UTILITIES AS WELL. CONTRACTOR RESPONSIBLE FOR RELOCATION OF EXISTING UTILITIES THAT CONFLICTS WITH PROPOSED CONSTRUCTION.

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PAVING, GRADING & DRAINAGE PLAN

SCALE: 1"=20'



REVISIONS			
	NO.	DATE	DESCRIPTION
	1	5-16-23	TAC REVIEW COMMENTS
	2	7-26-23	TAC REVIEW COMMENTS

ZEPHYR ENGINEERING
WILFORD ZEPHYR, P.E.
HOLLYWOOD, FL
(786) 302-7693
wzephyr@gmail.com

WN

5824 TAFT TOWNHOMES
5824 TAFT STREET
HOLLYWOOD, FL 33021

P.E.#:76036

DATE: 9/8/22

SCALE: 1"=20'

SHEET NO.:

CZ

2 OF 2

PROJECT NO.: 22-67

GENERAL CONDITION NOTES :

1. THE LOCATION OF EXISTING UTILITIES AND TOPOGRAPHY HAS BEEN PREPARED FROM THE MOST RELIABLE INFORMATION AVAILABLE TO THE ENGINEER. THIS INFORMATION IS NOT GUARANTEED AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES AND TOPOGRAPHY PRIOR TO CONSTRUCTION.
2. PRIOR TO CONSTRUCTION THE CONTRACTOR IS TO NOTIFY THE FOLLOWING COMPANIES & AGENCIES AND ANY OTHERS SERVING THE AREA:

FLORIDA POWER & LIGHT CO., CONSTRUCTION
BELLSOUTH
COMCAST
TECO
LOCAL CITY / COUNTY ENGINEERING & UTILITY DEPARTMENTS
FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), AS APPLICABLE
UNDERGROUND UTILITIES NOTIFICATION CENTER OF FLORIDA (S.U.N.H.I.N.E.)

PAVING, GRADING & DRAINAGE NOTES:

1. ALL UNSUITABLE MATERIALS, SUCH AS MUCK, HARDPAN, ORGANIC MATERIAL & OTHER DELETERIOUS MATERIAL AS CLASSIFIED BY AASHTO M-145, FOUND WITHIN THE ROAD & PARKING LOT AREAS SHALL BE REMOVED DOWN TO ROCK OR SUITABLE MATERIAL, & REPLACED W/ THE SPECIFIED FILL MATERIAL IN MAXIMUM 12" LIFTS COMPACTED TO NOT LESS THAN 100% MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE IN ACCORDANCE W/ AASHTO T-99. THICKNESS OF LAYERS MAY BE INCREASED PROVIDED THE EQUIPMENT & METHODS USED ARE PROVEN BY FIELD DENSITY TESTING TO BE CAPABLE OF COMPACTING THICK LAYERS TO SPECIFIED DENSITIES.
2. ALL AREAS SHALL BE CLEARED & GRUBBED PRIOR TO CONSTRUCTION. THIS SHALL CONSIST OF THE COMPLETE REMOVAL & DISPOSAL OF ALL TREES, BRUSH, STUMPS, ROOTS, GRASS, WEEDS, RUBBISH & ALL OTHER OBSTRUCTION RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE EXIST. GROUND TO A DEPTH OF 12". ITEMS DESIGNATED TO REMAIN OR TO BE RELOCATED OR ADJUSTED SHALL BE SO DESIGNATED ON THE DWGS.
3. FILL MATERIAL SHALL BE CLASSIFIED AS A-1, A-3 OR A-2.4 IN ACCORDANCE W/ AASHTO M-145 & SHALL BE FREE FROM VEGETATION & ORGANIC MATERIAL. NOT MORE THAN 12% BY WEIGHT OF FILL MATERIAL SHALL PASS THE NO. 200 SIEVE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CERTIFIED MATERIAL TEST RESULTS TO THE ENGINEER OF RECORD PRIOR TO THE RELEASE OF FINAL CERTIFICATION BY THE ENG. TEST RESULTS MUST INCLUDE BUT MAY NOT BE LIMITED TO, DENSITIES FOR SUBGRADE & LIME ROCK, UTILITIES, EXCAVATION, ASPHALT GRADATION REPORTS, CONC. CYLINDERS, ETC...
5. ALL INLETS & PIPE SHALL BE PROTECTED DURING CONSTRUCTION TO PREVENT SILTATION IN THE DRAINAGE SYSTEMS BY WAY OF TEMPORARY PLUGS & PLYWOOD OR PLASTIC COVERS OVER THE INLETS. THE ENTIRE DRAINAGE SYSTEM TO BE CLEAN OF DEBRIS PRIOR TO FINAL ACCEPTANCE.
6. WHERE NEW ASPHALT MEETS OR ABUTS EXIST. ASPHALT, THE EXIST. ASPHALT SHALL BE SAWCUT TO PROVIDE A STRAIGHT EVEN LINE. PRIOR TO REMOVING CURB OR GUTTER, THE ADJACENT ASPHALT SHALL ALSO BE SAWCUT TO PROVIDE A STRAIGHT EVEN LINE.
7. ALL PROPOSED GRADES (ELEVATIONS) REFER TO ASPHALT GRADES UNLESS INDICATED OTHERWISE.
8. SITE GRADING SHALL BE W/IN 0.1' OF THE REQUIRED ELEVATION & ALL AREAS SHALL BE GRADED TO DRAIN.
9. ALL SUBGRADE SHALL HAVE AN LBR OF 40 UNLESS OTHERWISE NOTED & SHALL BE COMPACTED TO 98% MAXIMUM DRY DENSITY PER AASHTO T-99.
10. ALL LIMEROCK SHALL BE COMPACTED TO 98% PER AASHTO T-180 & HAVE NOT LESS THAN 60% OF CARBONATES OF CALCIUM & MAGNESIUM UNLESS OTHERWISE DESIGNATED. ALL LIMEROCK SHALL BE PRIMED.
11. CONCRETE & ASPHALT THICKNESS SHALL BE OF TYPE DESIGNATED ON DWGS. (SEE SECTIONS)
12. PLASTIC FILTER FABRIC SHALL BE MIRAFI, TYPAR OR EQUAL CONFORMING TO SECTION 985 OF THE FDOT STANDARD SPECIFICATIONS.
13. CONC. SIDEWALKS SHALL BE 4" THICK ON COMPACTED SUBGRADE, W/ 1/2" EXPANSION JOINTS PLACED AT A MAXIMUM OF 75'. CRACK CONTROL JOINTS SHALL BE 5' ON CENTER. THE BACK OF SIDEWALK ELEVATION SHALL EQUAL THE CROWN OF ROADWAY, UNLESS SPECIFIED OTHERWISE BY LOCAL CODES OR INDICATED ON DWGS. ALL CONC. SIDEWALKS THAT CROSS DRIVEWAYS SHALL BE 6" THICK.
14. PIPE SPECIFICATIONS : THE MATERIAL TYPE IS SHOWN ON THE DRAWINGS BY ONE OF THE FOLLOWING DESIGNATIONS -

RCP = REINFORCED CONC. PIPE, ASTM DESIGNATION C-76, TABLE III
CMP = CORRUGATED METAL (ALUM.) PIPE, TM DESIGNATION M-196
CMP = (SMOOTH LINED) CORRUGATED METAL (ALUM.) PIPE, ASTM DESIGNATION M-196
SCP = SLOTTED CONC. PIPE, FDOT SECTIONS 941 & 942
PVC = POLYVINYLCHLORIDE PIPE
POMP = PERFORATED CMP, FDOT SECTION 945
DIP = DUCTILE IRON PIPE
HDPE = HIGH DENSITY POLYETHYLENE PIPE.

15. ASPHALT -
BITUMINOUS MATERIAL SHALL BE ASPHALT CEMENT, VISCOSITY GRADE AC-20, CONFORMING TO THE REQUIREMENTS OF FDOT STANDARD SPECIFICATIONS, 1986 EDITION, SECTION 916-1.
PRIME COAT SHALL BE CUT BACK ASPHALT, GRADE RC-70 OR RC-250 CONFORMING TO THE REQUIREMENTS SPECIFIED IN AASHTO DESIGNATION M-81-75 (1982). RATE = 0.10 GALS./S.Y. TACK COAT SHALL BE EMULSIFIED ASPHALT, GRADE RS-2 CONFORMING TO THE REQUIREMENTS SPECIFIED IN AASHTO DESIGNATION M-140-82. RATE = 0.02 TO 0.08 GALS./S.Y.

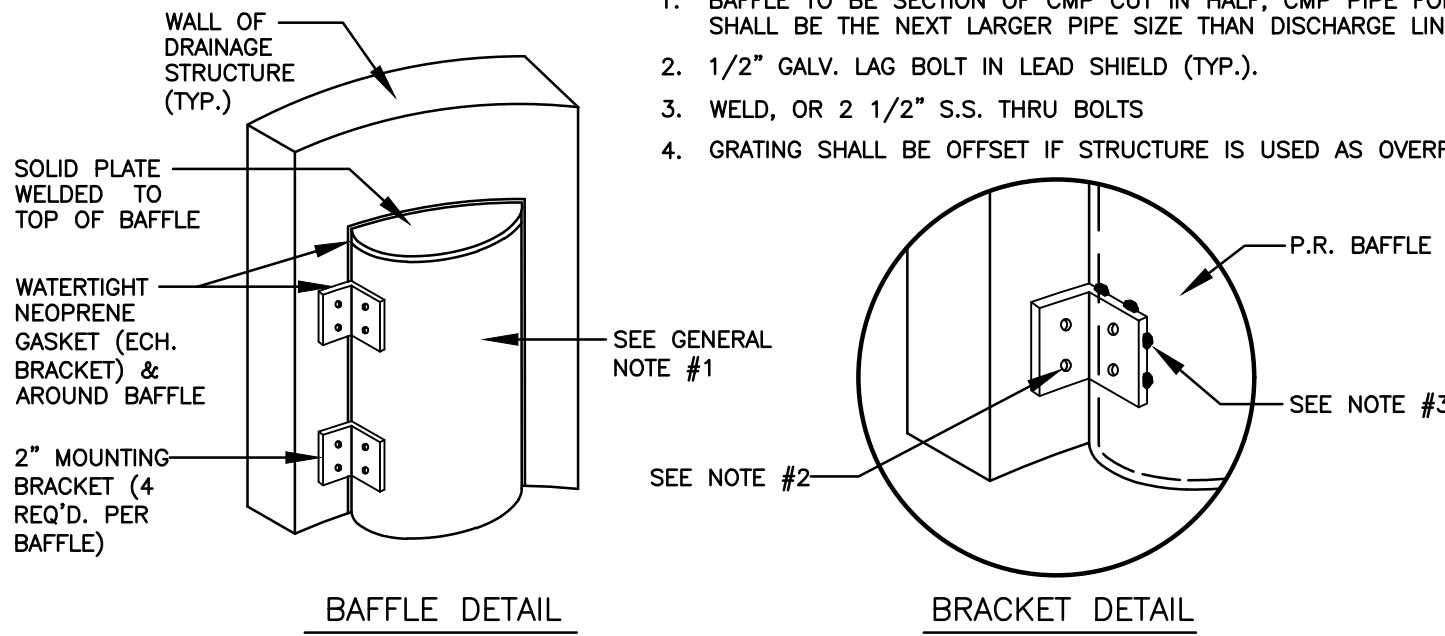
DESIGN MIX SHALL CONFORM TO FDOT SECTION 331 UNLESS OTHERWISE SPECIFIED.

PAVEMENT MARKING & SIGNING STANDARD NOTES :

1. STOP SIGNS SHALL BE 30"x30" (R1-1), HIGH INTENSITY.
2. ALL SIGNS SHALL BE PLACED AT A HEIGHT NOT LESS THAN 5' & NOT GREATER THAN 7'. THE HEIGHT IS MEASURED FROM THE BOTTOM OF THE SIGN TO THE EDGE OF NEAREST PAVEMENT. THE SIGN POST SHALL BE PLACED A MINIMUM OF 6' TO A MAXIMUM OF 12' FROM THE ADJACENT PAVEMENT, & A MINIMUM OF 6' FROM THE CROSS TRAFFIC PAVEMENT.
3. STOP BARS SHALL BE 24" WHITE.
4. ALL SITE PAVEMENT MARKINGS SHALL BE PAINT, (UNLESS INDICATED OTHERWISE)
5. ALL PAVEMENT MARKINGS AND SIGNAGE IN THE ROAD RIGHT-OF-WAY SHALL BE THERMOPLASTIC & SHALL CONFORM TO MUTCD AND PBC TYPICAL T-P-06-001.

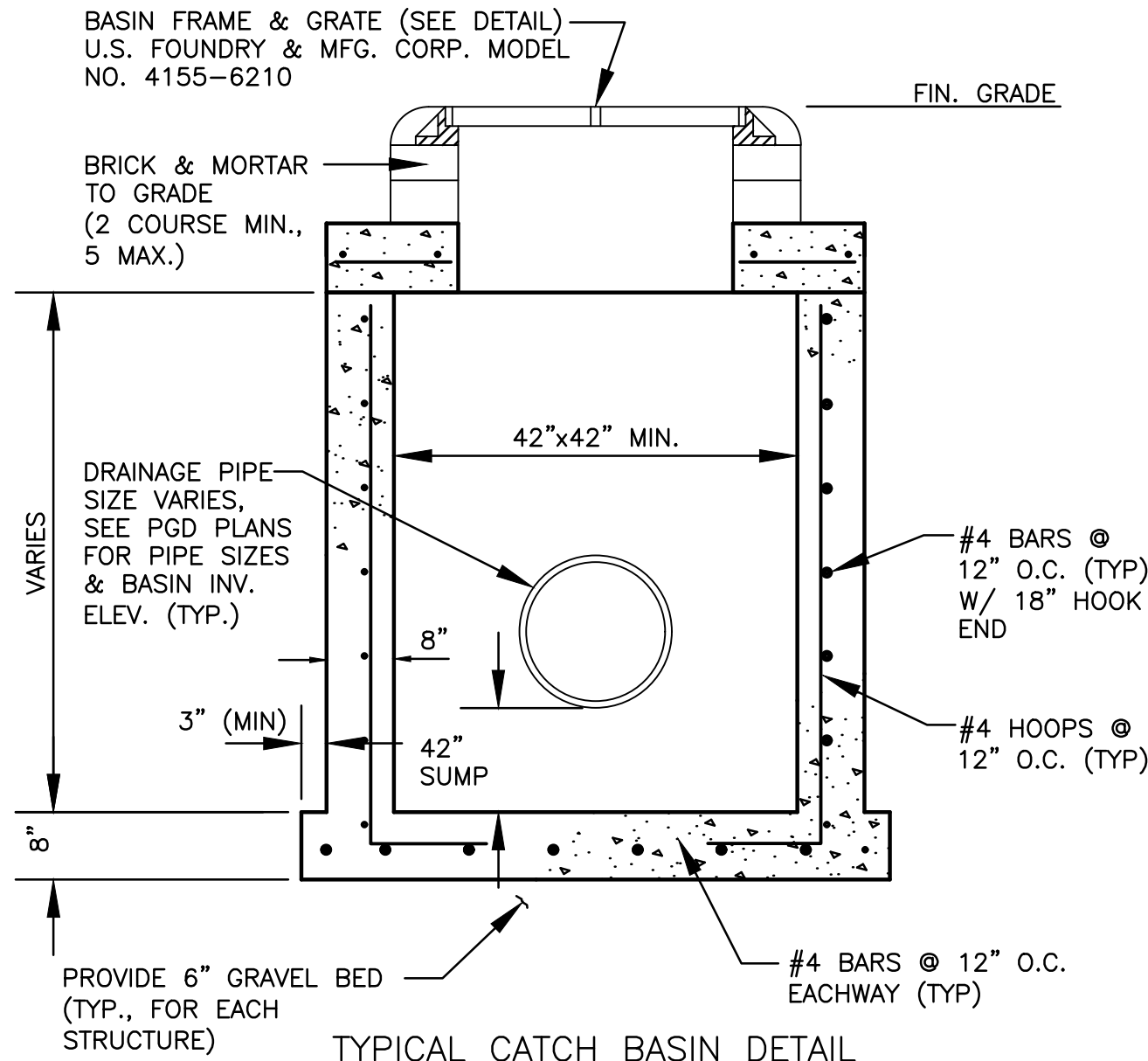
GENERAL NOTES :

1. BAFFLE TO BE SECTION OF CMP CUT IN HALF. CMP PIPE FOR BAFFLE SHALL BE THE NEXT LARGER PIPE SIZE THAN DISCHARGE LINE.
2. 1/2" GALV. LAG BOLT IN LEAD SHIELD (TYP.).
3. WELD, OR 2 1/2" S.S. THRU BOLTS
4. GRATING SHALL BE OFFSET IF STRUCTURE IS USED AS OVERFLOW.

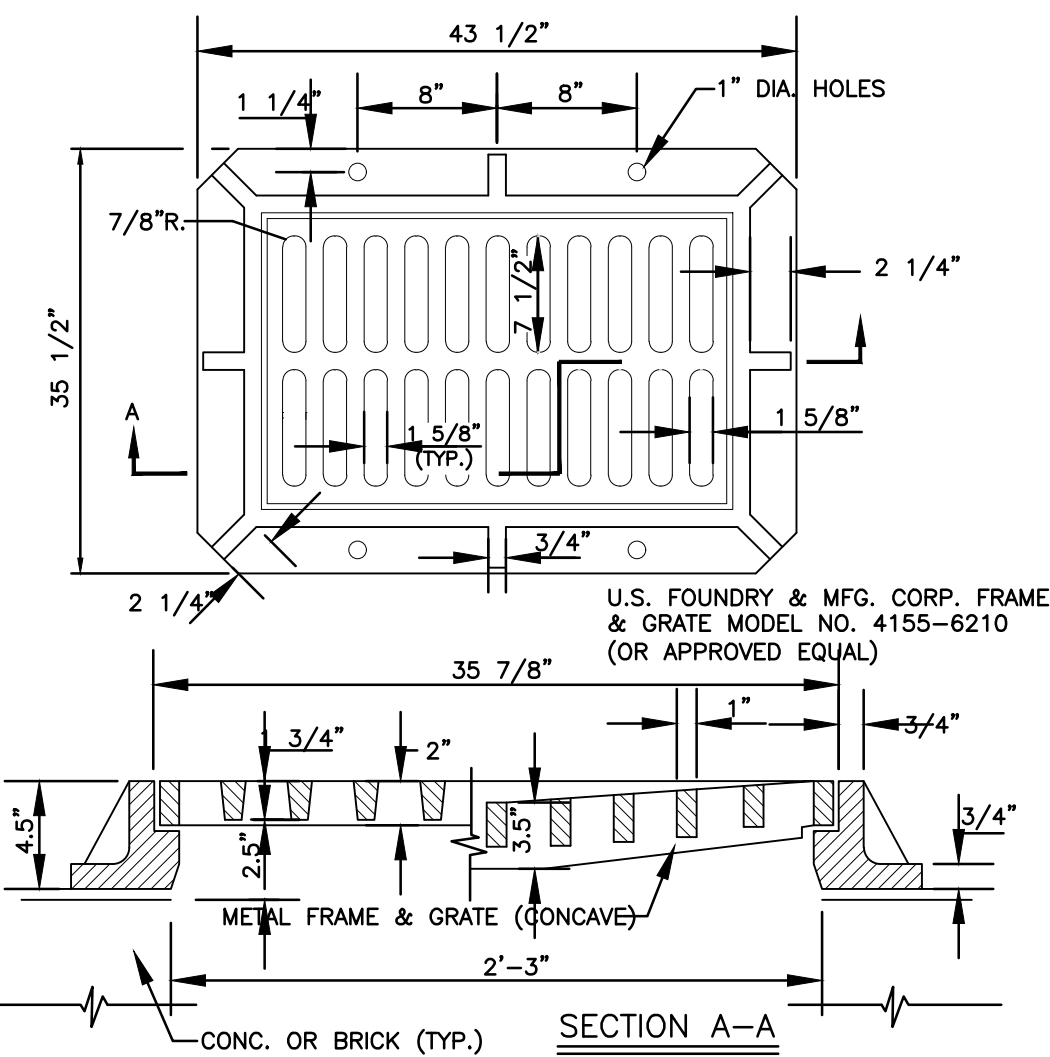


POLLUTION RETARDANT BAFFLE DETAIL
NTS

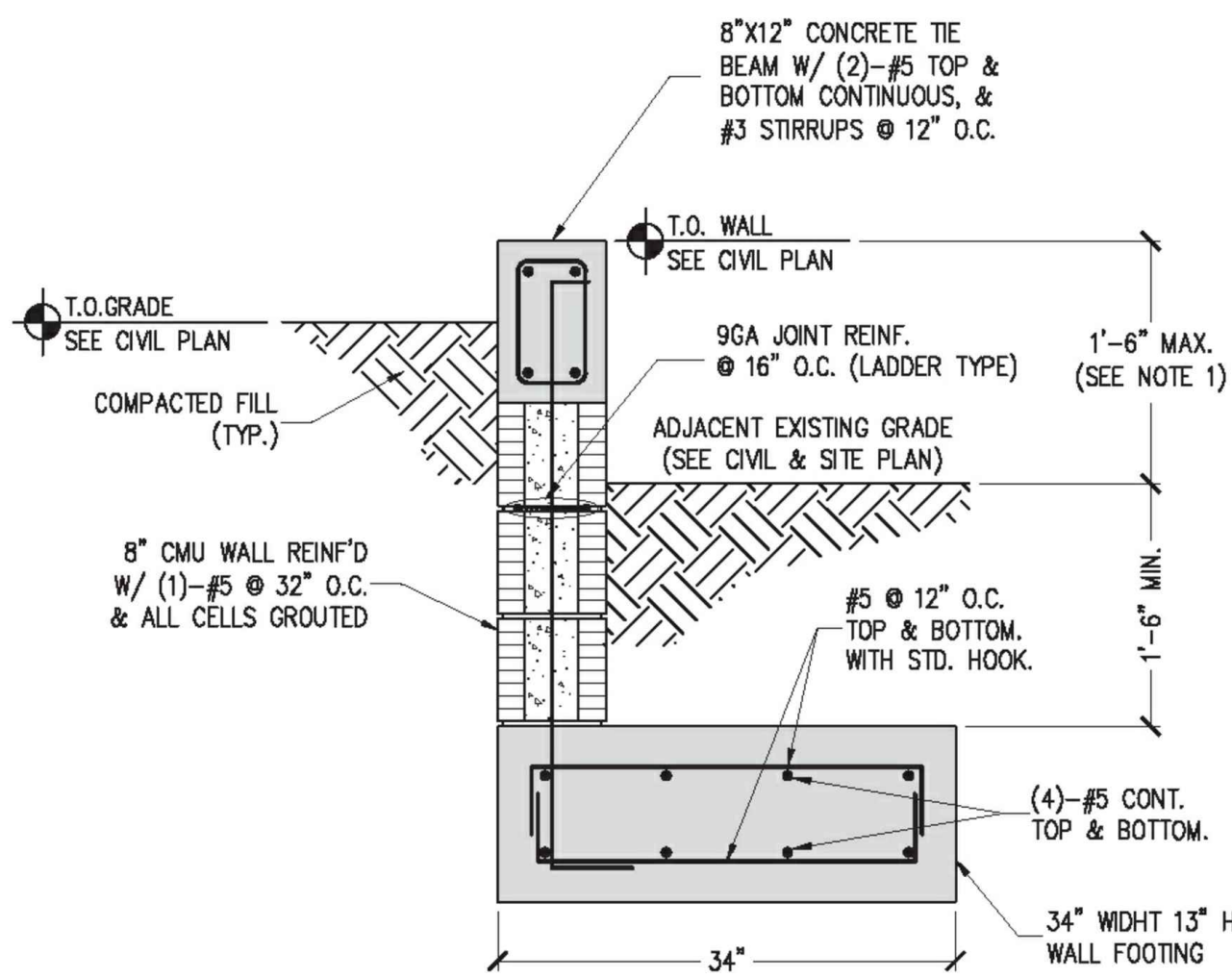
ALL ELEVATIONS ARE REFERENCED
TO NAVD88 VERTICAL DATUM



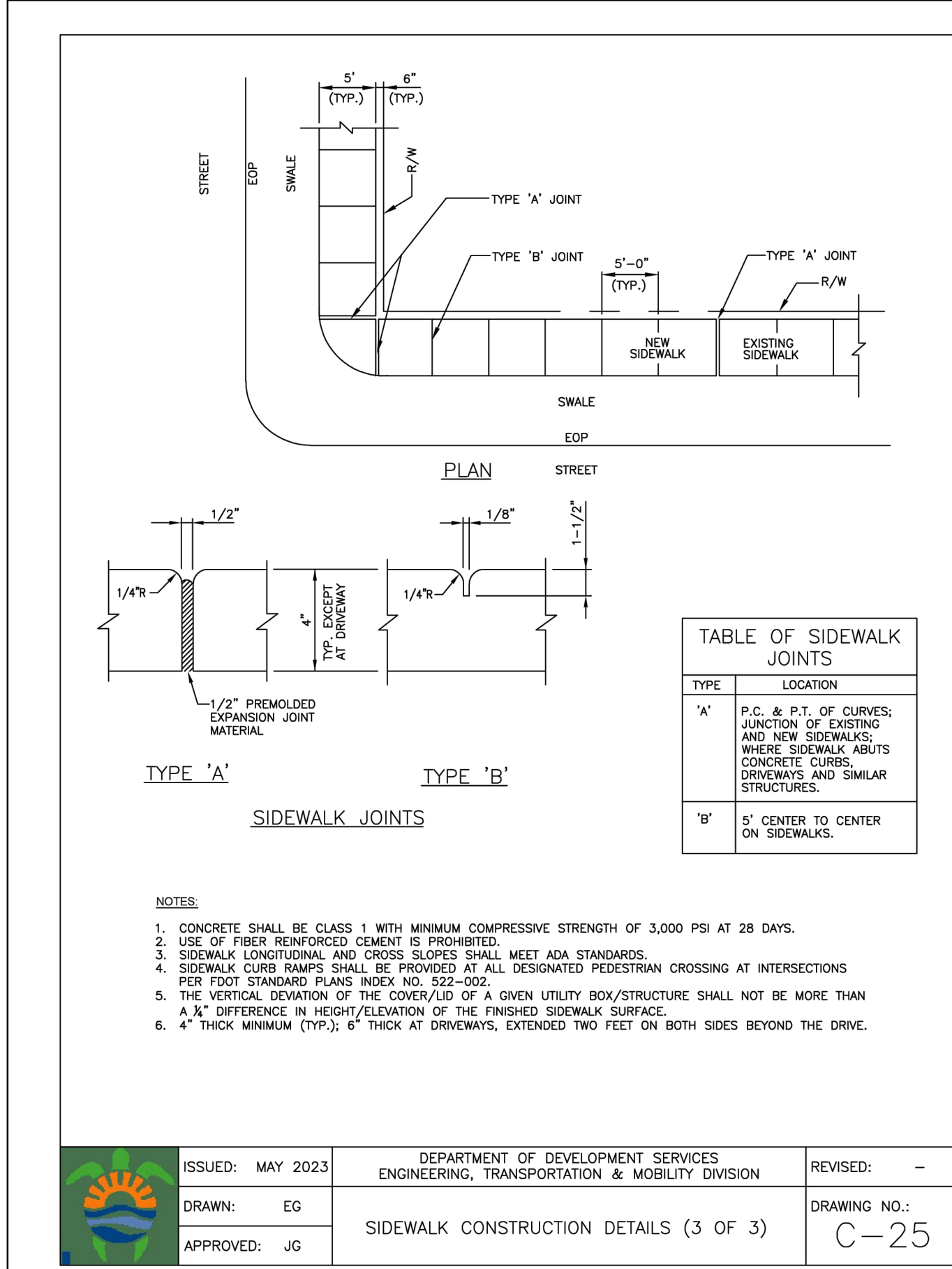
TYPICAL CATCH BASIN DETAIL
NTS



FRAME & GRATE DETAIL
NTS

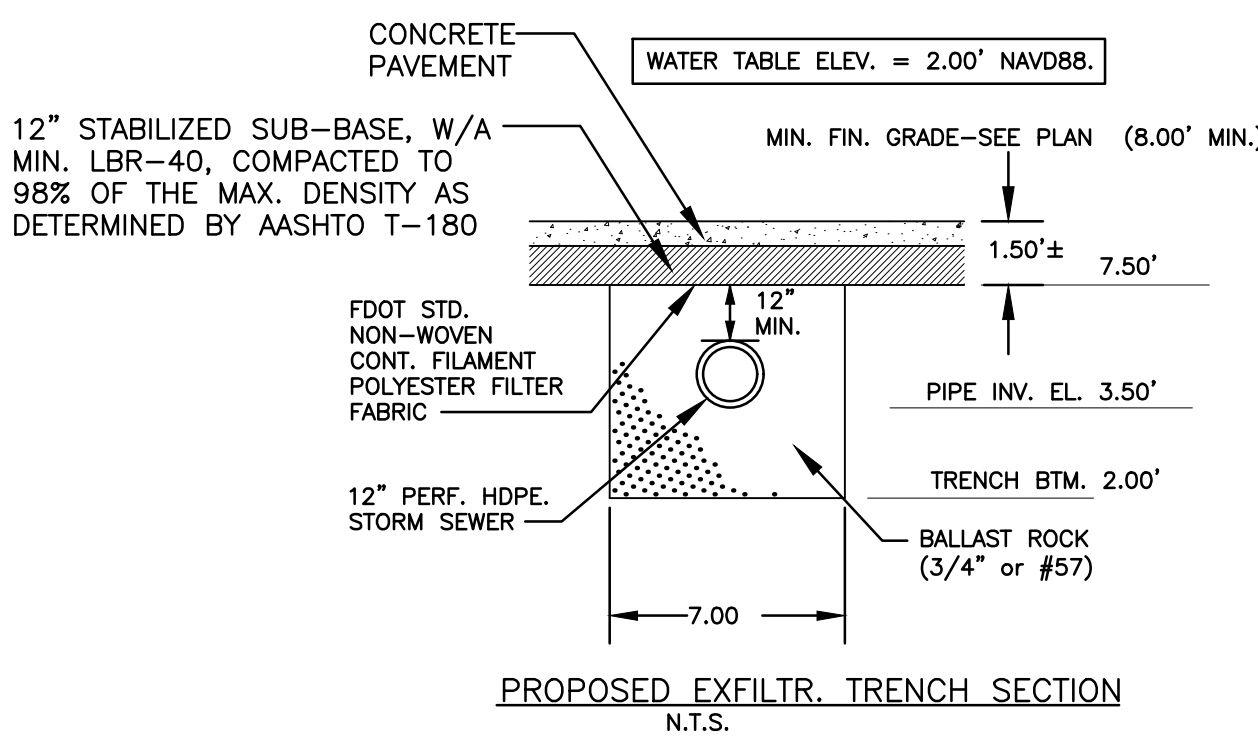


RETAINING WALL SECTION

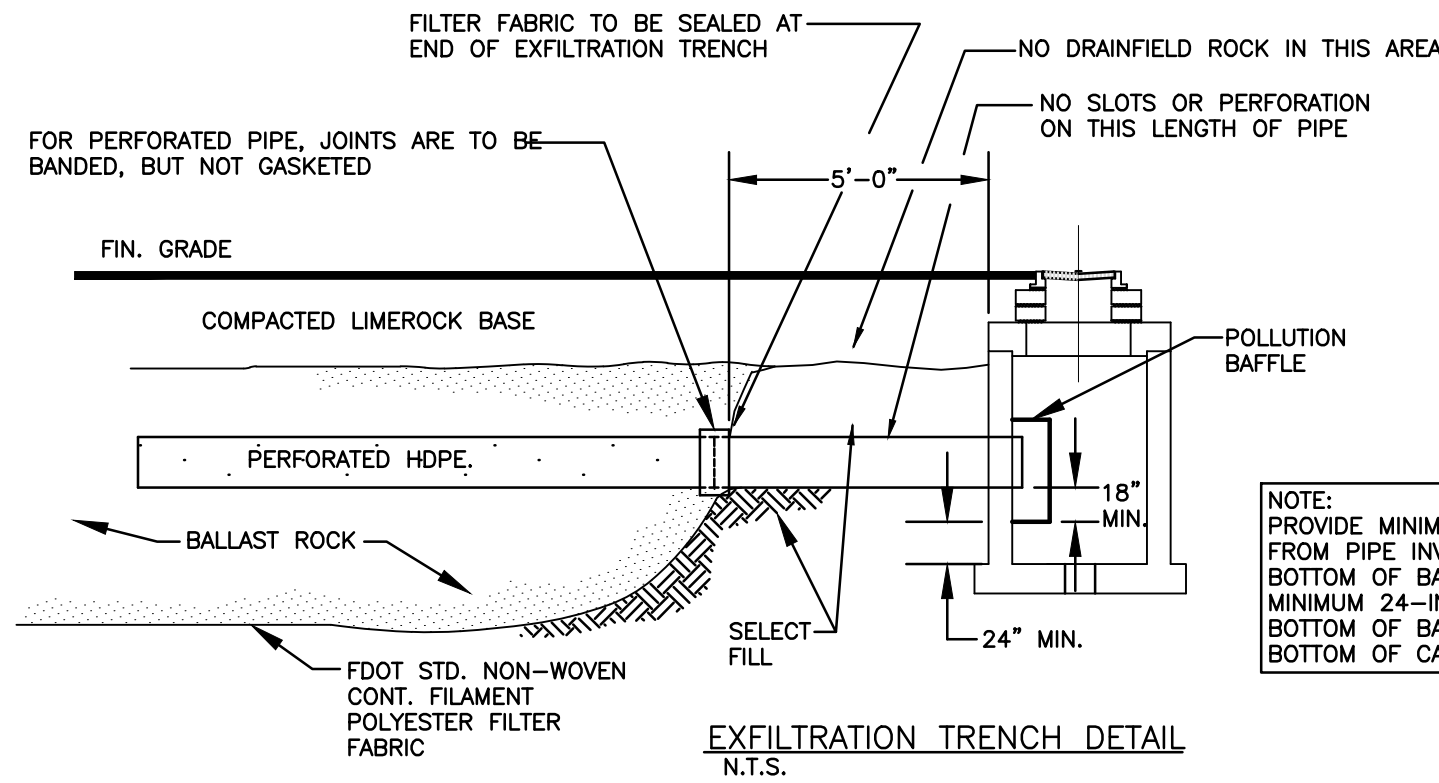


- NOTES:
1. CONCRETE SHALL BE CLASS 1 WITH MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.
 2. USE OF FIBER REINFORCED CEMENT IS PROHIBITED.
 3. SIDEWALK LONGITUDINAL AND CROSS SLOPES SHALL MEET ADA STANDARDS.
 4. SIDEWALK CURB RAMP SHALL BE PROVIDED AT ALL DESIGNATED PEDESTRIAN CROSSING AT INTERSECTIONS PER FDOT STANDARD PLANS INDEX NO. 922-002.
 5. THE VERTICAL DEVIATION OF THE COVER/LID OF A GIVEN UTILITY BOX/STRUCTURE SHALL NOT BE MORE THAN A 4" DIFFERENCE IN HEIGHT/ELEVATION OF THE FINISHED SIDEWALK SURFACE.
 6. 4" THICK MINIMUM (TYP.); 6" THICK AT DRIVEWAYS, EXTENDED TWO FEET ON BOTH SIDES BEYOND THE DRIVE.

ISSUED: MAY 2023	DEPARTMENT OF DEVELOPMENT SERVICES ENGINEERING, TRANSPORTATION & MOBILITY DIVISION	REVISED: -
DRAWN: EG	SIDEWALK CONSTRUCTION DETAILS (3 OF 3)	DRAWING NO.: C-25
APPROVED: JG		



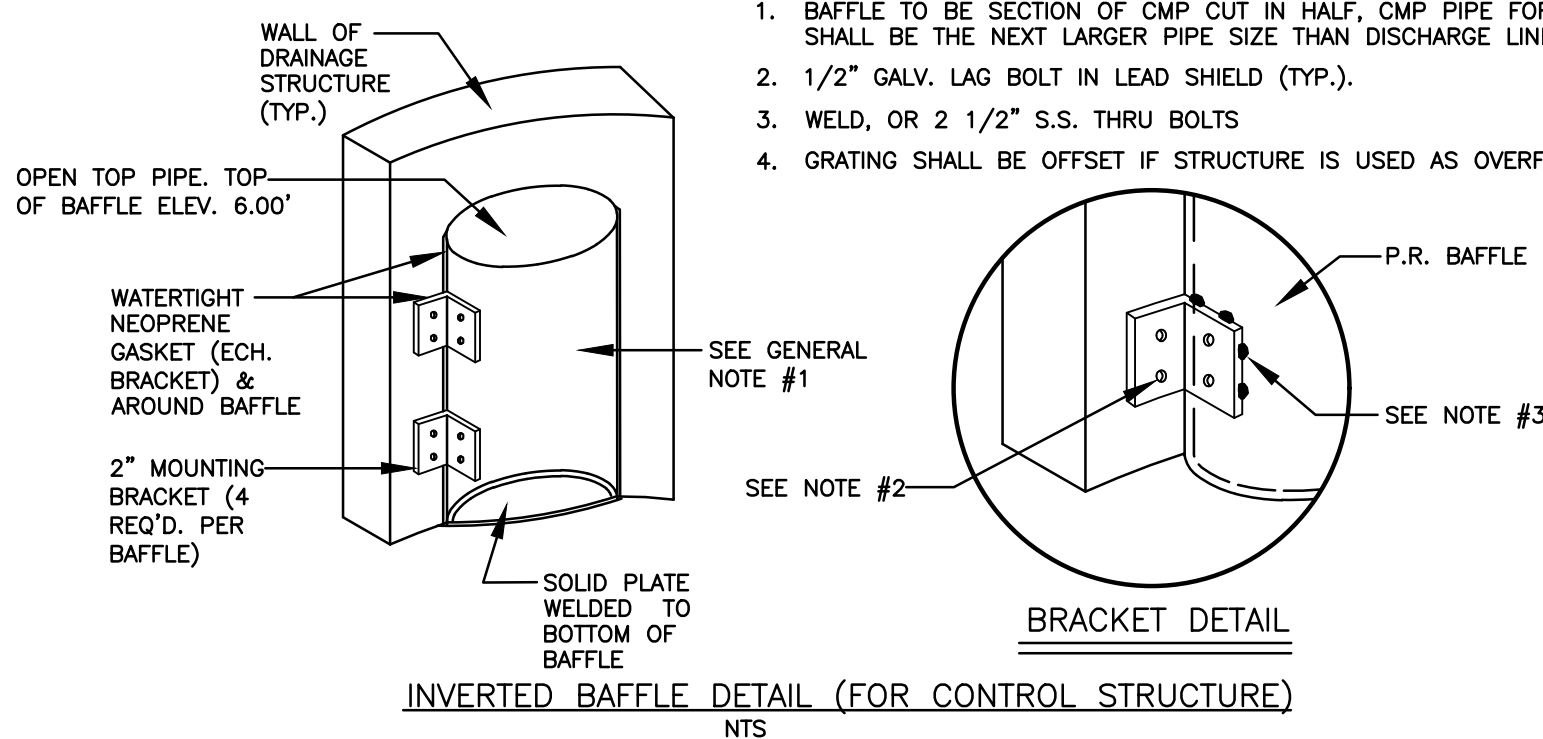
PROPOSED EXFILTR. TRENCH SECTION
N.T.S.



EXFILTRATION TRENCH DETAIL
N.T.S.

GENERAL NOTES :

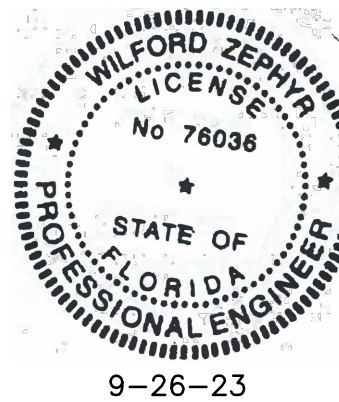
1. BAFFLE TO BE SECTION OF CMP CUT IN HALF. CMP PIPE FOR BAFFLE SHALL BE THE NEXT LARGER PIPE SIZE THAN DISCHARGE LINE.
2. 1/2" GALV. LAG BOLT IN LEAD SHIELD (TYP.).
3. WELD, OR 2 1/2" S.S. THRU BOLTS
4. GRATING SHALL BE OFFSET IF STRUCTURE IS USED AS OVERFLOW.



BRACKET DETAIL

INVERTED BAFFLE DETAIL (FOR CONTROL STRUCTURE)
NTS

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CIVIL DETAILS
SCALE: N.T.S.

REVISIONS

NO.	DATE	DESCRIPTION
1	7-26-23	TAC REVIEW COMMENTS

ZEPHYR ENGINEERING

ZE

5824 TAFT TOWNHOMES
5824 TAFT STREET
HOLLYWOOD, FL 33021

P.E.#:76036

DATE: 9/8/22

SCALE: N.T.S.

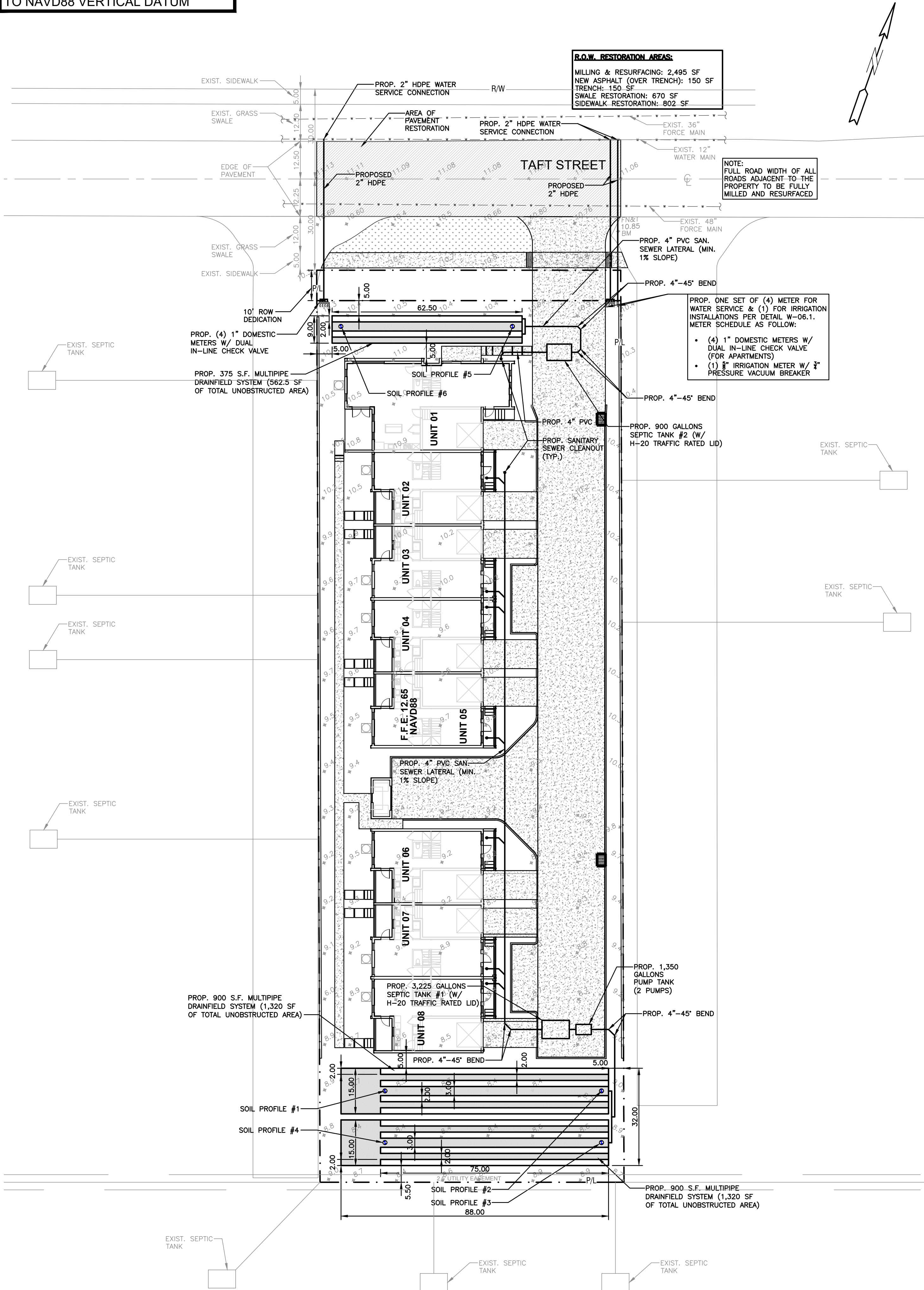
SHEET NO.:

C3

3 OF 5

PROJECT NO.: 22-67

ALL ELEVATIONS ARE REFERENCED
TO NAVD88 VERTICAL DATUM

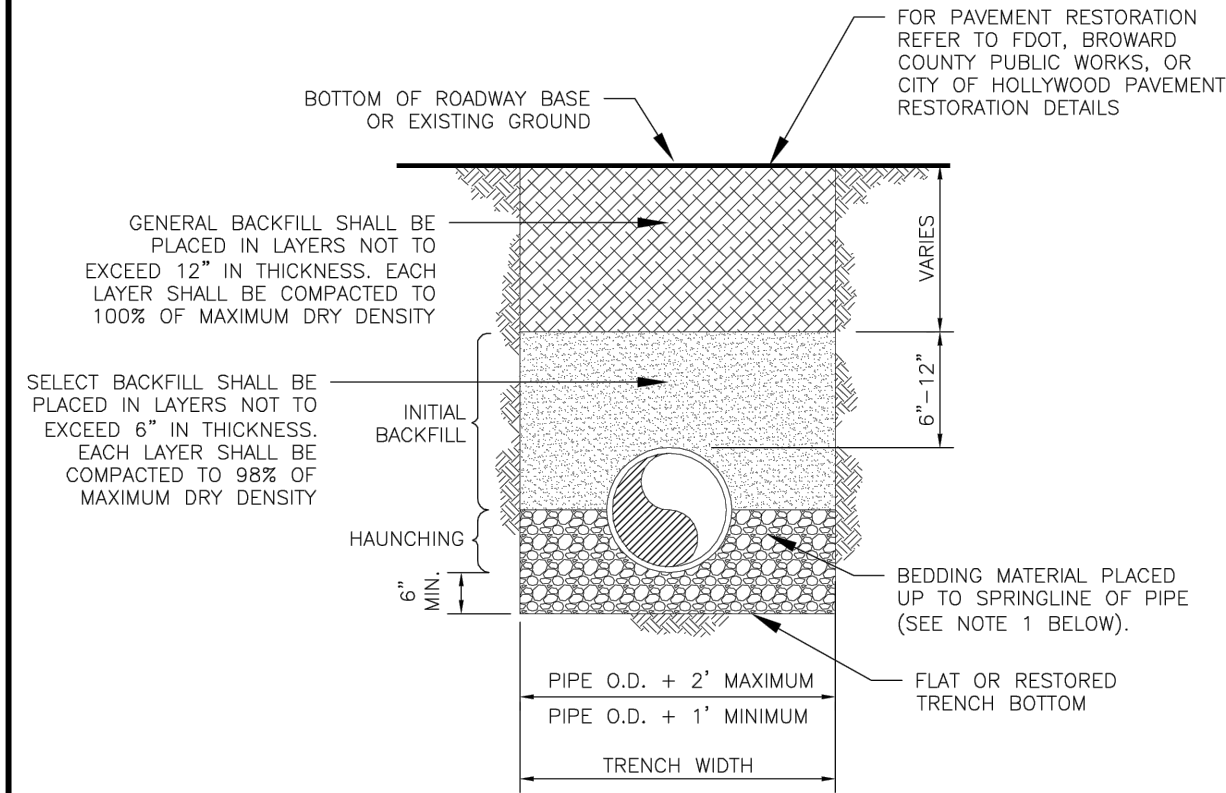


R.O.W. RESTORATION AREAS:
MILLING & RESURFACING: 2,495 SF
NEW ASPHALT (OVER TRENCH): 150 SF
TRENCH: 150 SF
SWALE RESTORATION: 670 SF
SIDEWALK RESTORATION: 802 SF

NOTE:
FULL ROAD WIDTH OF ALL
ROADS ADJACENT TO THE
PROPERTY TO BE FULLY
MILLED AND RESURFACED

PROP. ONE SET OF (4) METER FOR
WATER SERVICE & (1) FOR IRRIGATION
INSTALLATIONS PER DETAIL W-06.1.
METER SCHEDULE AS FOLLOWS:

- (4) 1" DOMESTIC METERS W/
DUAL IN-LINE CHECK VALVE
(FOR APARTMENTS)
- (1) 3/4" IRRIGATION METER W/ 3/4"
PRESSURE VACUUM BREAKER



NOTES:

- WHEN PIPE INSTALLATION IS ABOVE THE GROUND WATER TABLE ELEVATION, OR
WHENEVER BEDDING COPPER PIPE UNDER ANY CONDITION, BEDDING MATERIAL SHALL
BE CLEAN SANDY SOIL IF AVAILABLE WITHIN THE LIMITS OF CONSTRUCTION. IMPORTED
BEDDING SHALL BE WELL GRADED, WASHED CRUSHED STONE (OR DRAINFIELD
LUMEROCK). CRUSHED STONE SHALL CONSIST OF HARD, DURABLE, SUB-ANGULAR
PARTICLES OF PROPER SIZE AND GRADATION, AND SHALL BE FREE FROM ORGANIC
MATERIAL, WOOD, TRASH, SAND, LOAM, CLAY, EXCESS FINES, AND OTHER
DETERIOROUS MATERIALS.
- ALL BEDDING MATERIAL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY BEFORE
ANY PIPE IS LAID. FOR ADDITIONAL MATERIAL SPECIFICATIONS REFER TO
SPECIFICATION SECTION 02222, "EXCAVATION AND BACKFILL FOR UTILITIES".
- DENSITY TESTING SHALL BE IN ACCORDANCE WITH AASHTO T-180 AND ASTM
D-3017.
- BACKFILL TO COMPLY WITH FDOT DESIGN STANDARD 125-8.



ISSUED: 03/01/1994
DRAWN: EAM
APPROVED: XXX

DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL
PIPE LAYING CONDITION TYPICAL
SECTION (P.V.C.)

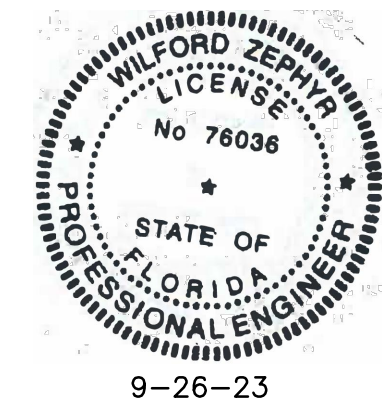
REVISED: 06/08/2014
DRAWING NO.
G-03

SEPTIC TANK & DRAINFIELD NOTES:

- ONSITE SEWAGE DISPOSAL SYSTEM INSTALLATION
SHALL COMPLY WITH THE REQUIREMENTS OF
CHAPTER 64E-6 OF FLORIDA ADMINISTRATIVE
CODE (FAC) STANDARDS FOR ONSITE SEWAGE
TREATMENT AND DISPOSAL SYSTEM.
- THERE ARE NO PERTINENT FEATURES ON
ADJACENT PROPERTIES OR ACROSS THE STREET
THAT MAY AFFECT THE ONSITE SEWAGE
TREATMENT & DISPOSAL SYSTEM INSTALLATION.
- PROVIDE MINIMUM 15' HORIZONTAL SEPARATION
BETWEEN WATER SERVICE AND PROPOSED
SEWER LATERALS & DRAINFIELD.
- PROVIDE MINIMUM 10' SEPARATION FROM EDGE
OF PROPOSED DRAINFIELD TO ANY ONSITE
SWALES OR RETENTION AREAS.
- THIS DESIGN ASSUMES EXISTING LOAMY SAND,
SANDY LOAM, COARSE SANDY LOAM & FINE
SAND AT DRAINFIELD & RESERVE AREA. AT
DRAINFIELD & DRAINFIELD RESERVE AREA
CONTRACTOR TO REMOVE EXISTING SOIL TO
THE DEPTH OF THE WATER TABLE, AND
REPLACE WITH LOAMY SAND, SANDY LOAM,
COARSE SANDY LOAM & FINE SAND. THE
REPLACED FILL MUST BE COMPACTED TO THE
COMPACTION OF THE EXISTING SURROUNDING
SOIL. CONSULT WITH GEOTECHNICAL ENGINEER
AS REQUIRED FOR FILL SELECTION.
- DRAINFIELD SYSTEM MUST BE INSTALLED A
MINIMUM OF 100' FROM EXISTING WATER
WELLS.

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9-26-23

LEGEND

- | | | | |
|--|-----------------------|--|------------------------|
| | PROPOSED CONCRETE | | PROPOSED WATER METER |
| | PROPOSED PAVERS | | EXISTING WATER METER |
| | PROPOSED GRADE | | EXISTING WATER VALVE |
| | EXISTING ELEVATION | | PROPOSED BFP DEVICE |
| | PROPOSED AREA DRAIN | | EXISTING SAN. SEWER MH |
| | EXISTING FIRE HYDRANT | | |

WATER & SEWER PLAN

SCALE: 1"=20'

SITE DATA:

- SITE AREA: 30,000 SF = 0.689 ACRES
- ALLOWABLE DRAINFIELD AREA
=(0.689 AC)(2,500 GPD/AC)=1,723 GPD
- BUILDING AREA:
UNIT #1 = 3 BED / 2,250 SQ FT
UNIT #2-8 = 2 BED / 1,196 SQ FT

SEPTIC TANK & DRAINFIELD CALCULATIONS:

SEPTIK TANK #1:

TOTAL FLOWS = 1,400 GAL

2,700 GALLONS SEPTIC TANK REQUIRED FOR THE PROPOSED FLOW.

ADD 75 GAL./DWELLING UNIT FOR MULTIPLE DWELLING UNITS: 7X(75
GAL.)=525 GAL

REQUIRED SEPTIC TANK SIZE:
2,700 GAL. + 525 GAL. = 3,225 GALLONS

(USE 2,500 GALLON FOR SEPTIC TANK #1)

SEPTIK TANK #2:

TOTAL FLOWS = 300 GAL

900 GALLONS SEPTIC TANK REQUIRED FOR THE PROPOSED FLOW.

(USE 900 GALLON FOR SEPTIC TANK #2)

DRAINFIELD (MULTIPIPE SYSTEM):

DRAINFIELD #1&2:

- (700 GPD) X (SF/0.8 GPD) = 875 SF
(USE 900 SF MULTIPIPE SYSTEM, 1,320 SF OF TOTAL
UNOBSTRUCTED AREA)

DRAINFIELD #3:

- (300 GPD) X (SF/0.8 GPD) = 375 SF
(USE 375 SF MULTIPIPE SYSTEM, 562.5 SF OF TOTAL
UNOBSTRUCTED AREA)

REVISIONS

NO.	DATE	DESCRIPTION
1	9-16-23	TAC REVIEW COMMENTS
2	7-26-23	TAC REVIEW COMMENTS

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DATE: 9/8/22

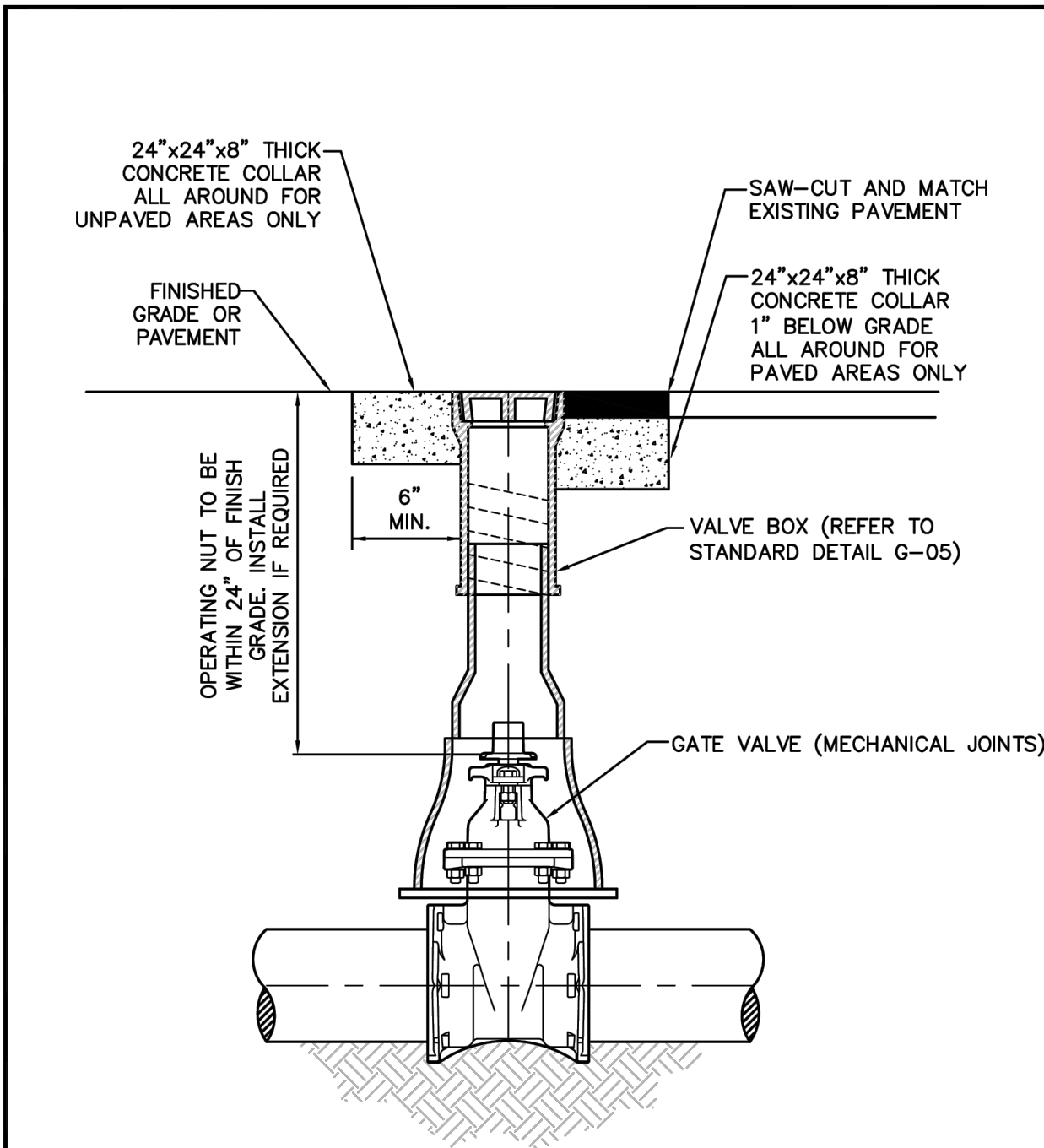
SCALE: 1"=20'

SHEET NO.:

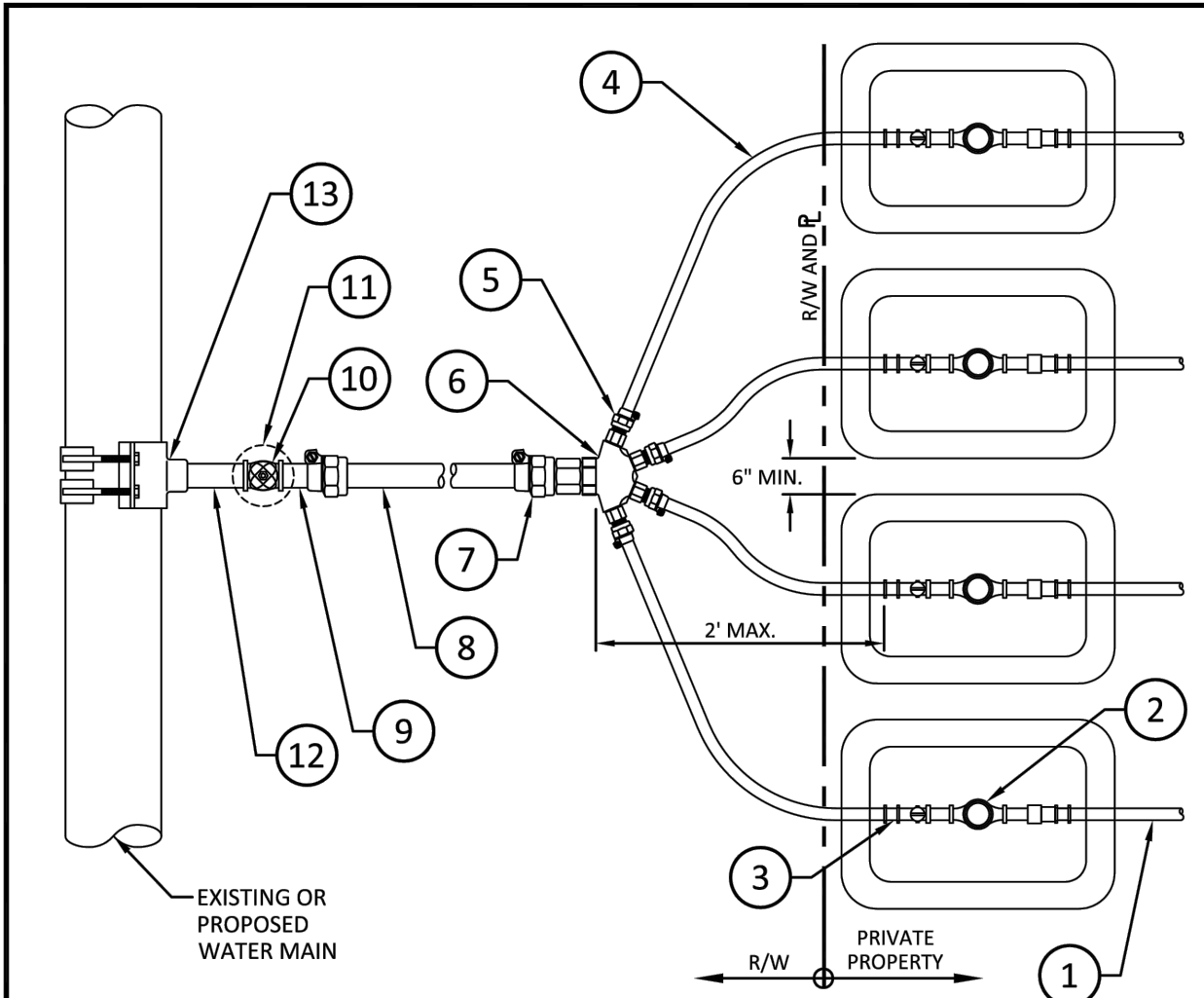
C4

4 OF 5

PROJECT NO.: 22-67



ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	TYPICAL GATE VALVE AND VALVE BOX SETTING	DRAWING NO. G-07
APPROVED: XXX		



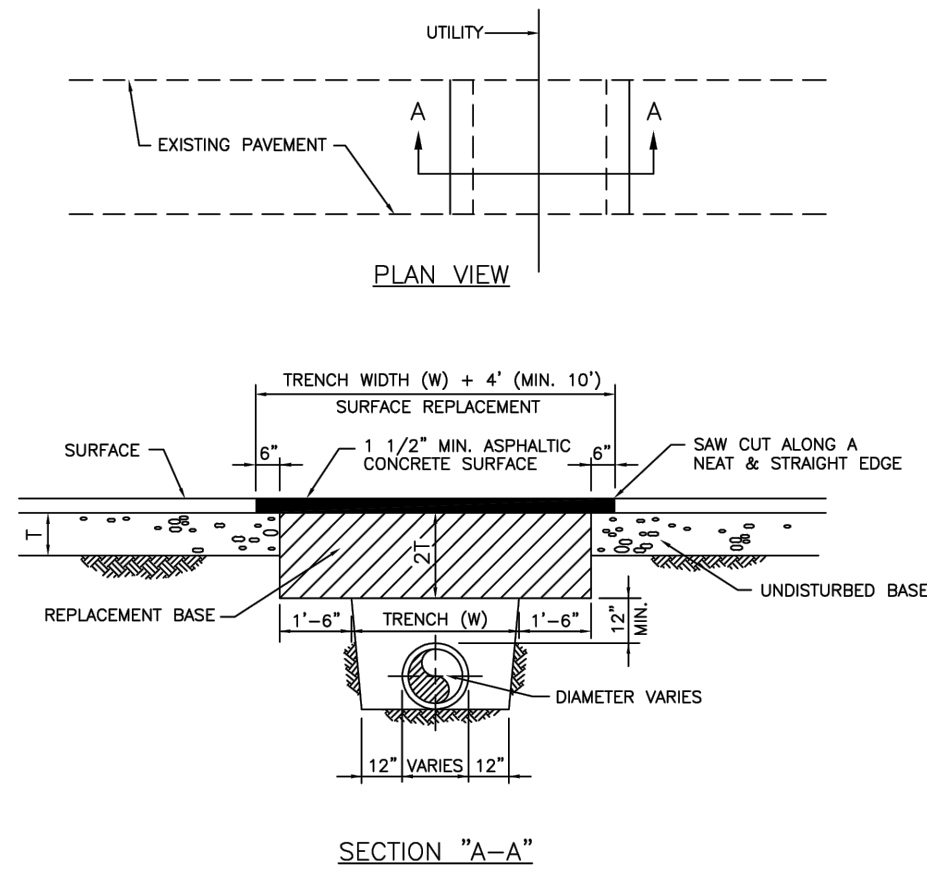
- PROPERTY OWNER'S SERVICE PIPE
- 3/4", 3/4" OR 1" METER INSTALLATION (REFER TO "SINGLE SERVICE PLAN" ON STANDARD DETAIL W-06) (TYP. FOR 4)
- COUPLING W/1" COMPRESSION FOR HDPE X 3/4" MIP
- 1" HDPE SERVICE PIPE TO METER (TYP. FOR 4)
- COUPLING W/1" MIP X 1" COMPRESSION FOR HDPE (TYP. FOR 4)
- MULTI-SERVICE "Y" W/SINGLE 2" FIP INLET AND (4)-1" FIP OUTLETS (MULTI SERVICE BRASS Y)
- COUPLING WITH 2" COMPRESSION FOR HDPE X 2" MIP
- 2" HDPE WATER SERVICE PIPE
- COUPLING W/2" BRASS THREAD X 2" COMPRESSION FOR HDPE
- PROP. 2" GATE VALVE W/2" OPERATING WHEEL
- PROP. VALVE BOX W/LID AND RISER. FOR UNPAVED AREAS, INSTALL 24"x24"x8" THICK CONC. COLLAR
- PROPOSED 2" BRASS NIPPLE
- PROP. DOUBLE STRAP SERVICE SADDLE FOR D.I.P. OR BAND SADDLE FOR PVC
- ALL FITTINGS TO BE BRASS.

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 11/06/2017
DRAWN: EAM	METER BANK INSTALLATION FOR FOUR 1/2", 3/4" AND/OR 1" METERS	DRAWING NO. W-06.1
APPROVED: XXX		

FLEXIBLE PAVEMENT RESTORATION NOTES:

- THE ABOVE DETAILS APPLY ONLY TO ASPHALT PAVEMENT RESTORATION OVER UTILITY TRENCHES CUT WITHIN CITY OF HOLLYWOOD RIGHTS-OF-WAY. FOR PAVEMENT RESTORATION WITHIN BROWARD COUNTY OR FDOT RIGHTS-OF-WAY REFER TO THE CORRESPONDING DETAILS FOR THOSE AGENCIES.
- LIMEROCK BASE MATERIAL SHALL HAVE A MINIMUM L.B.R. OF 100 AND A MINIMUM CARBONATE CONTENT OF 70%. REPLACED BASE MATERIAL OVER TRENCH SHALL BE A MINIMUM OF 12" THICK.
- LIMEROCK BASE MATERIAL SHALL BE PLACED IN 12" MAXIMUM (LOOSE MEASUREMENT) THICKNESS LAYERS WITH EACH LAYER THOROUGHLY ROLLED OR TAMPED AND COMPACTED TO 100% OF MAXIMUM DENSITY, PER AASHTO T-180, PRIOR TO THE PLACEMENT OF THE SUCCEEDING LAYERS.
- STABILIZED SUBGRADE MATERIAL SHALL BE GRANULAR AND SHALL HAVE A MINIMUM L.B.R. OF 40.
- BACKFILL SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE PIPE LAYING CONDITION TYPICAL SECTIONS IN DETAILS G-02 AND G-03, AND THE SPECIFICATIONS, BUT TESTING WILL BEGIN 12" ABOVE THE INSTALLED FACILITY.
- ALL EDGES AND JOINTS OF EXISTING ASPHALT PAVEMENT SHALL BE SAW CUT TO STRAIGHT LINES, PARALLEL TO OR PERPENDICULAR TO THE ROADWAY, PRIOR TO THE RESURFACING.
- RESURFACING MATERIAL SHALL BE FDOT SUPERPAVE, AND SHALL BE APPLIED A MINIMUM OF TWO INCH IN THICKNESS.
- MILL AND BUTT JOINT TO EXISTING PAVEMENT.
- IF THE TRENCH IS FILLED TEMPORARILY, IT SHALL BE COVERED WITH A 2" ASPHALTIC CONCRETE PATCH TO KEEP THE FILL MATERIAL FROM RAVELING UNTIL REPLACED WITH A PERMANENT PATCH.
- REFER TO SPECIFICATIONS FOR DETAILED PROCEDURES.
- WHERE THE UTILITY TRENCH CROSSES EXISTING ASPHALT DRIVEWAYS, THE LIMEROCK BASE THICKNESS MAY BE A MINIMUM OF 6 INCHES THICK. REGARDLESS OF THE EXTENT OF IMPACT, THE ENTIRE DRIVEWAY SURFACE BETWEEN THE EDGE OF THE ROADWAY PAVEMENT AND PROPERTY LINE OR FRONT OF SIDEWALK SHALL BE OVERLAID USING 2-INCH THICK MINIMUM ASPHALTIC CONCRETE SURFACE COURSE WHERE INDICATED ON THE PLANS OR AS DIRECTED BY THE CITY/ENGINEER.

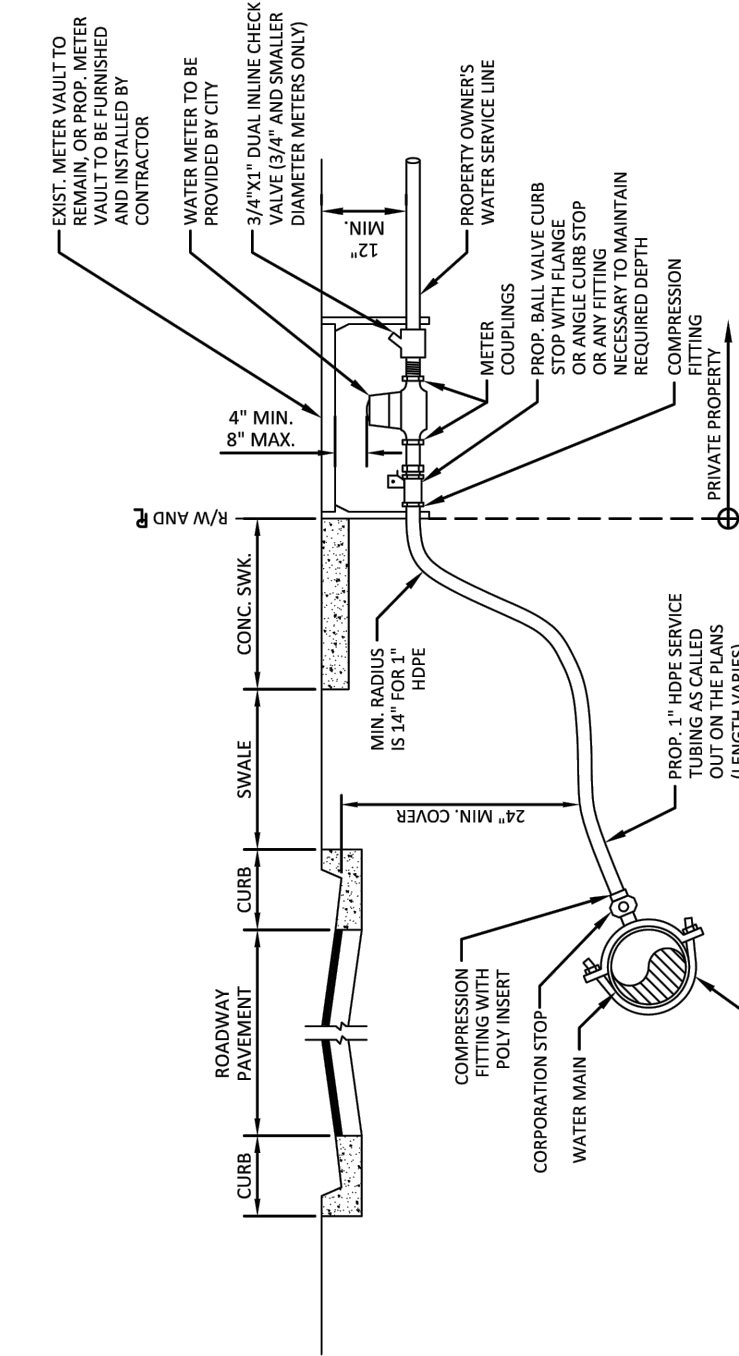
ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 11/06/2017
DRAWN: EAM	FLEXIBLE PAVEMENT RESTORATION NOTES	DRAWING NO. G-12
APPROVED: XXX		



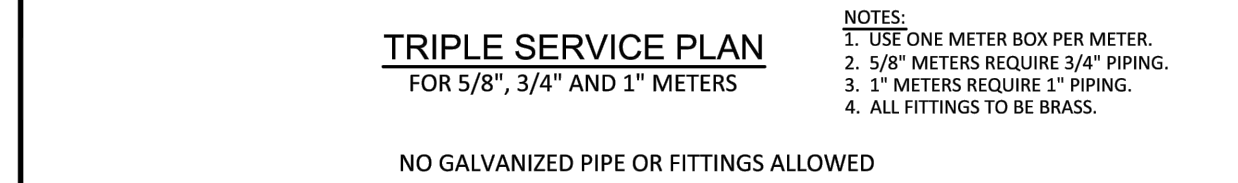
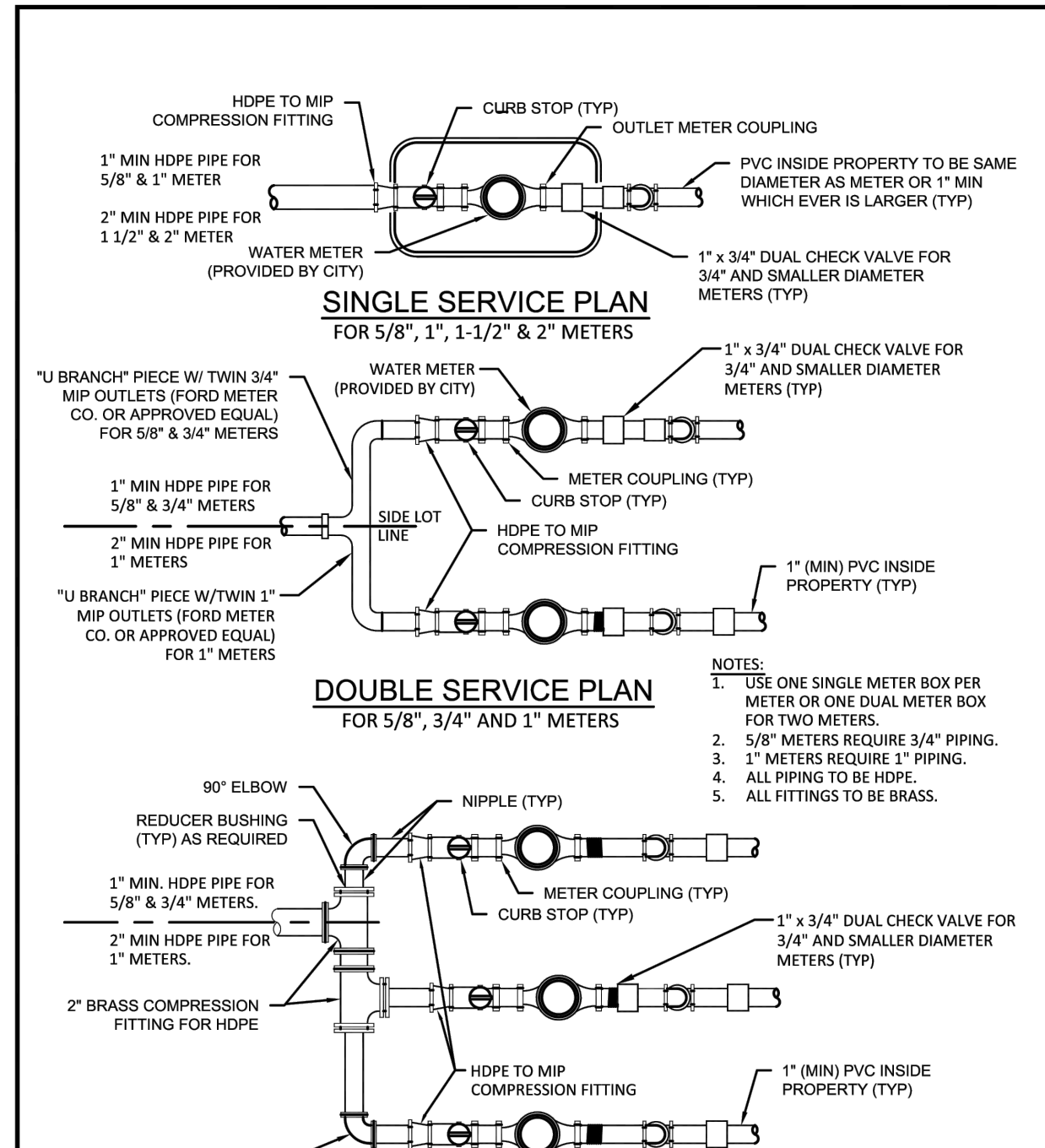
NOTES:

- REPLACED BASE MATERIAL OVER TRENCH SHALL BE TWICE THE THICKNESS OF THE ORIGINAL BASE, MINIMUM 12", MAXIMUM 18".
- BASE MATERIAL SHALL BE PLACED IN 6" MAXIMUM (LOOSE MEASUREMENT) LAYERS AND EACH LAYER THOROUGHLY ROLLED OR TAMPED TO 100% OF MAXIMUM DENSITY, PER AASHTO T-180.
- ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED.
- SURFACE TREATED PAVEMENT JOINTS SHALL BE LAPPED AND FEATHERED.
- SURFACE MATERIAL SHALL BE CONSISTENT WITH THE EXISTING SURFACE.
- BASE MATERIAL SHALL HAVE A MINIMUM L.B.R. OF 100 AND A MINIMUM CARBONATE CONTENT OF 70%.
- IF THE TRENCH IS FILLED TEMPORARILY, IT SHALL BE COVERED WITH A 2" ASPHALTIC CONCRETE PATCH TO KEEP THE FILL MATERIAL FROM RAVELING UNTIL REPLACED WITH A PERMANENT PATCH.
- MINIMUM PAVEMENT RESTORATION WIDTH IS 10'.

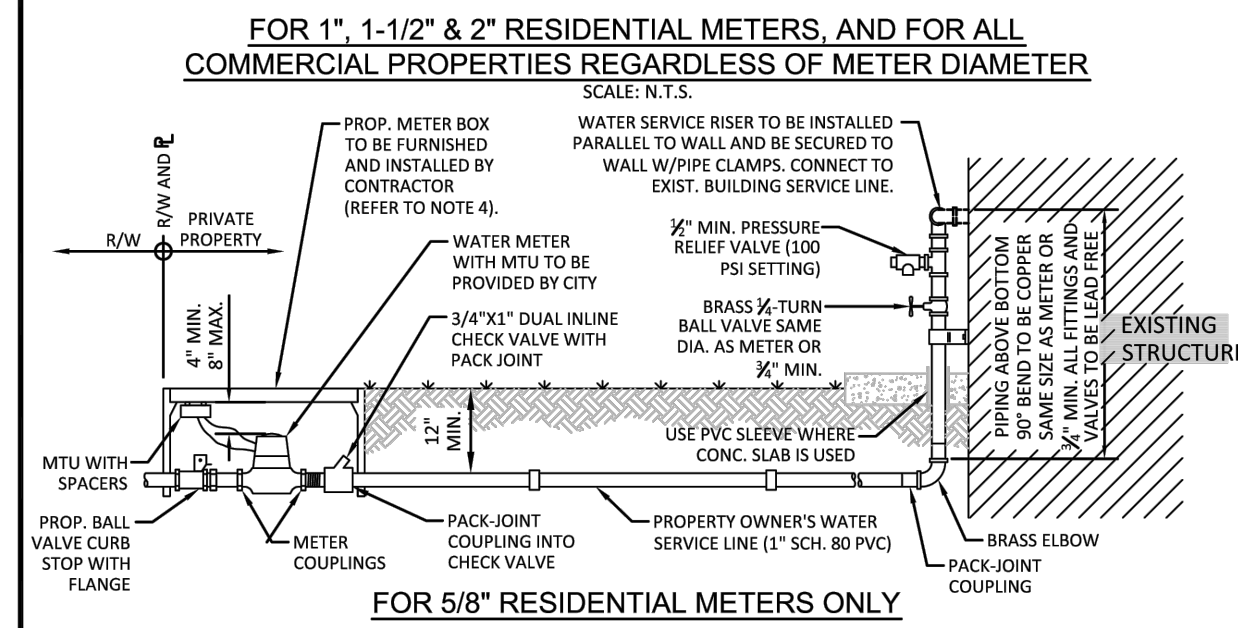
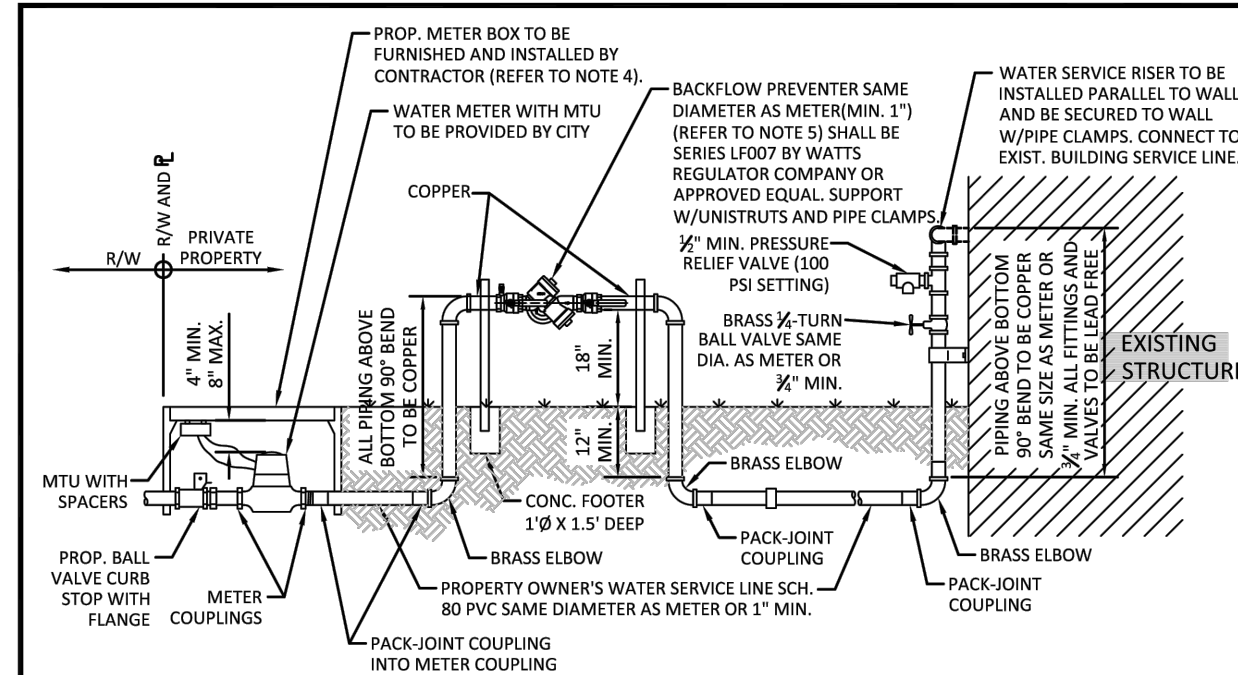
ISSUED: MAY 2023	DEPARTMENT OF DEVELOPMENT SERVICES ENGINEERING, TRANSPORTATION & MOBILITY DIVISION	REVISED: -
DRAWN: EG	FLEXIBLE PAVEMENT RESTORATION PERPEND. UTILITY INSTALLATION	DRAWING NO. C-31
APPROVED: JG		



ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 11/06/2017
DRAWN: EAM	TYPICAL 1" HDPE WATER SERVICE FOR SINGLE/DUAL 5/8" TO 1" METERS	DRAWING NO. W-08
APPROVED: XXX		



ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 11/06/2017
DRAWN: EAM	TYPICAL 5/8", 1", 1-1/2" AND 2" METER INSTALLATION	DRAWING NO. W-06
APPROVED: XXX		

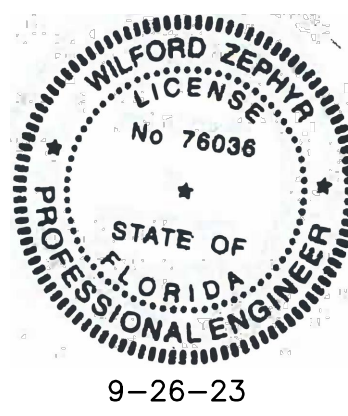


- NOTES FOR ALL SERVICES:
- IF EXISTING HOSE BIB IS REMOVED, DAMAGED, OR NO HOSE BIB EXISTS, ONE MUST BE INSTALLED. A HOSE BIB VACUUM BREAKER MUST BE INSTALLED AS REQUIRED TO COMPLY WITH THE LATEST REVISION OF THE FLORIDA BUILDING CODE.
 - THREADED PVC FITTINGS (MALE OR FEMALE) NOT ALLOWED. ALL TRANSITIONS FROM PVC TO METAL PIPING/FITTINGS SHALL USE COMPRESSION PACK-JOINT COUPLINGS. THIS INCLUDES PVC CONNECTIONS TO INLINE CHECK VALVE AND BACKFLOW PREVENTER.
 - PIPE CLAMPS FOR ATTACHING WATER SERVICE RISER TO WALL SHALL BE HOT-DIPPED GALVANIZED, WITH ISOLATION MATERIAL BETWEEN THE PIPE AND GALVANIZED METAL.
 - IF EXISTING CONCRETE METER BOX IS IN ACCEPTABLE CONDITION (AS DETERMINED BY ESD) IT MAY BE RE-USED.
 - IF EXISTING BACKFLOW PREVENTER IS DETERMINED TO BE IN ACCEPTABLE CONDITION IT MAY BE RE-USED PROVIDED IT IS RE-CERTIFIED.
 - ALL PRIVATE SERVICE LINE INSTALLATIONS SHALL COMPLY WITH THE LATEST REVISION OF THE FLORIDA BUILDING CODE.
 - ALL FITTINGS TO BE BRASS.

ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 02/14/2018
DRAWN: EAM	TYPICAL WATER SERVICE FROM METER TO STRUCTURE FOR 5/8" THROUGH 2" METERS	DRAWING NO. W-10
APPROVED: XXX		

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REVISIONS

NO.	DATE	DESCRIPTION

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P.E.#:76036

DATE: 9/8/22

SCALE: N.T.S.

SHEET NO.:

C5

5 OF 5

PROJECT NO.: 22-67

UTILITIES DETAILS

SCALE: N.T.S.

9-26-23