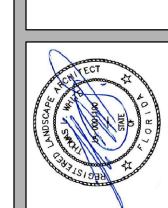


REVISIONS

4-25-2023: Per City



CHECKED: TW DATE: 3-21-2023 SCALE: 1"=20'



2 Full business days before digging, call toll free 1-800-432-4770 Sunshine State One Call of Florida, Inc. Notification Center. Contractors are responsible for coordinating with the owners and appropriate public agencies to assist in locating and verifying all underground utilities prior to excavation. All existing utilities shown on the plans are to be considered approximate and should be verified by the contractor prior to the start of work operations.

General site and berm grading to +/- 1 inch (1") shall be provided by the general contractor. All finished site grading and final decorative berm shaping shall be provided by the landscape contractor.

All sizes shown for plant material on the plans are to be considered Minimum. All plant material must meet or exceed these minimum requirements for both height and spread. Any other requirements for specific shape or effect as noted on the plan(s) will also be required for final acceptance.

All plant material furnished by the landscape contractor shall be Florida #1 or better as established by Grades and Standards for Florida Nursery Trees and Plants

All trees designated as single trunk shall have a single, relatively straight, dominant leader, proper structural branching and even branch distribution. Trees with bark inclusion, tipped branches, and co—dominant trunks will not be accepted. Trees with girdling, circling and/or plunging roots will be rejected.

All planting beds shall be free of all rocks $\frac{1}{2}$ " or larger, sticks, and objectionable material including weeds, weed seeds. All limerock shall be removed/cleaned down to the native soils. Planting soil $\frac{50}{50}$ sand/topsoil mix shall be delivered to the site in a clean loose and friable condition and is required around the root ball of all trees and palms, the top 6" of all shrubs and ground cover beds. This soil can be tilled into the existing soil after the existing soil has been cleaned of all rocks, limestone and sticks. Recycled compost is encouraged as a soil amendment alternative. Sod 1.5-2" topsoil comes furnished.

All burlap, string, cords, wire baskets, plastic or metal containers shall be removed from the rootballs before planting. Remove all bamboo and metal nursery stakes. Remove all tagging tape.

All trees/palms shall be planted so the top of the root ball, root flair are slightly above final grade. Shrub material shall be planted such that the top of the plant ball is flush with the surrounding grade. It is the sole responsibility of the landscape contractor to insure that all new plantings receive adequate water during the installation and during all plant warranty periods. Deep watering of all new trees and palms and any supplemental watering that may be required to augment natural rainfall and site irrigation is mandatory to insure proper plant development and shall be provided as a part of this contract.

All trees/palms shall be staked using biodegradable material. No wire, black strapping, or other synthetic material shall be used. Nailing into trees and palms for any reason is prohibited and the material will be rejected. Please refer to the planting details

All landscape areas shall be irrigated by a fully automatic sprinkler system with a minimum 100% coverage with all heads adjusted to 50% overlap. Each system shall be installed with an operational rain sensor and rust inhibitor.

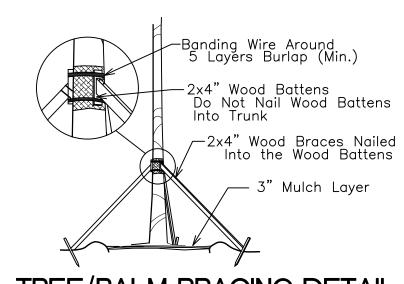
No fertilizers are required.

All landscape areas shall be covered with Pine Straw, Pine Bark, Eucalyptus or sterilized seed free Melaleuca mulch to a minimum depth of two inches (2") of cover when settled. Spread mulch to 1" thickness 3" away from the trunks/stems of all plant material. All trees in sodded areas shall have a clean cut 4' diameter mulch ring. The 5-6" height water ring shall be made from mulch, not soil. Certain areas may receive a thicker mulch cover where noted on plans. Cypress, red, gold and green mulch is prohibited.

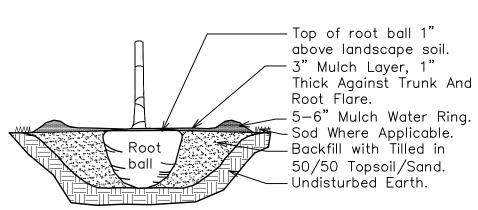
Please refer to the planting details for a graphic representation of the above

All plant material as included herein shall be warranted by the landscape contractor for a minimum period as follows: All trees and palms for 12 months, all shrubs, vines, groundcovers and miscellaneous planting materials for 90 days after final acceptance by the owner or owner's representative.

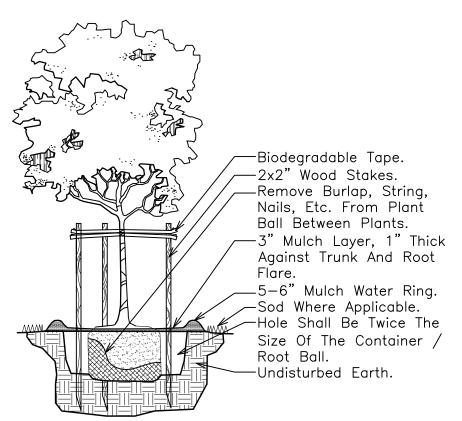
Trees and Palms shall not be removed without first obtaining an approved Tree Removal Permit from the City of Hollywood.



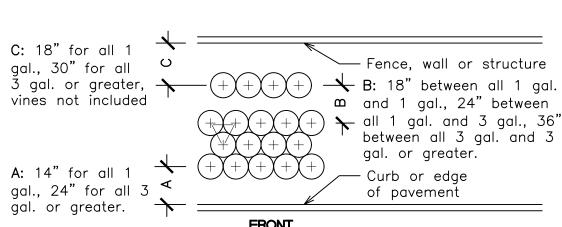




TREE/PALM PLANTING DETAIL



SMALL TREE PLANTING DETAIL

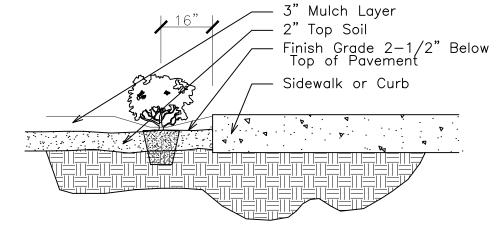


TYPICAL SHRUB SPACING DETAIL

century root ba

LINEAR APPLICATION: FOR ROOT PRUNING OF EXISTING TREES OR IN PLANTING SITUATIONS WHERE ONE OR MORE TREES ARE IN CLOSE PROXIMITY TO HARDSCAPES.





— Finish Grade 1" Below Top of Pavement

— Pavement

- Remove Container

Plants, 1" Thick Max. Against Stems.

— 3" Mulch Between

Completely From Plant Ball

-Hole Shall Be

- Undisturbed Earth

Twice The Size

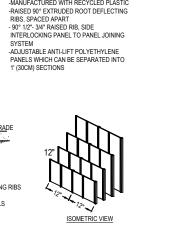
Of The Container

SOD INSTALLATION DETAIL

See Specs. for Plant Spacing

SHRUB PLANTING DETAIL

SHRUB INSTALLATION DETAIL



CENTURY PRODUCTS 1144 N. GROVE ST.

ANAHEIM, CA 92806

PHONE: (714) 632-7083

FAX: (714) 632-5470 www.centuryrootbarrier.com

-FLEXIBLE TOP SAFETY EDGE

VERSATILE BARRIER FOR LINEAR OR TREE WELL APPLICATIONS



Sod Only Sod Only Sod Only Edge of Pavement

FIRE HYDRANT CLEAR ZONE

12" ROOT BARRIER DETAIL

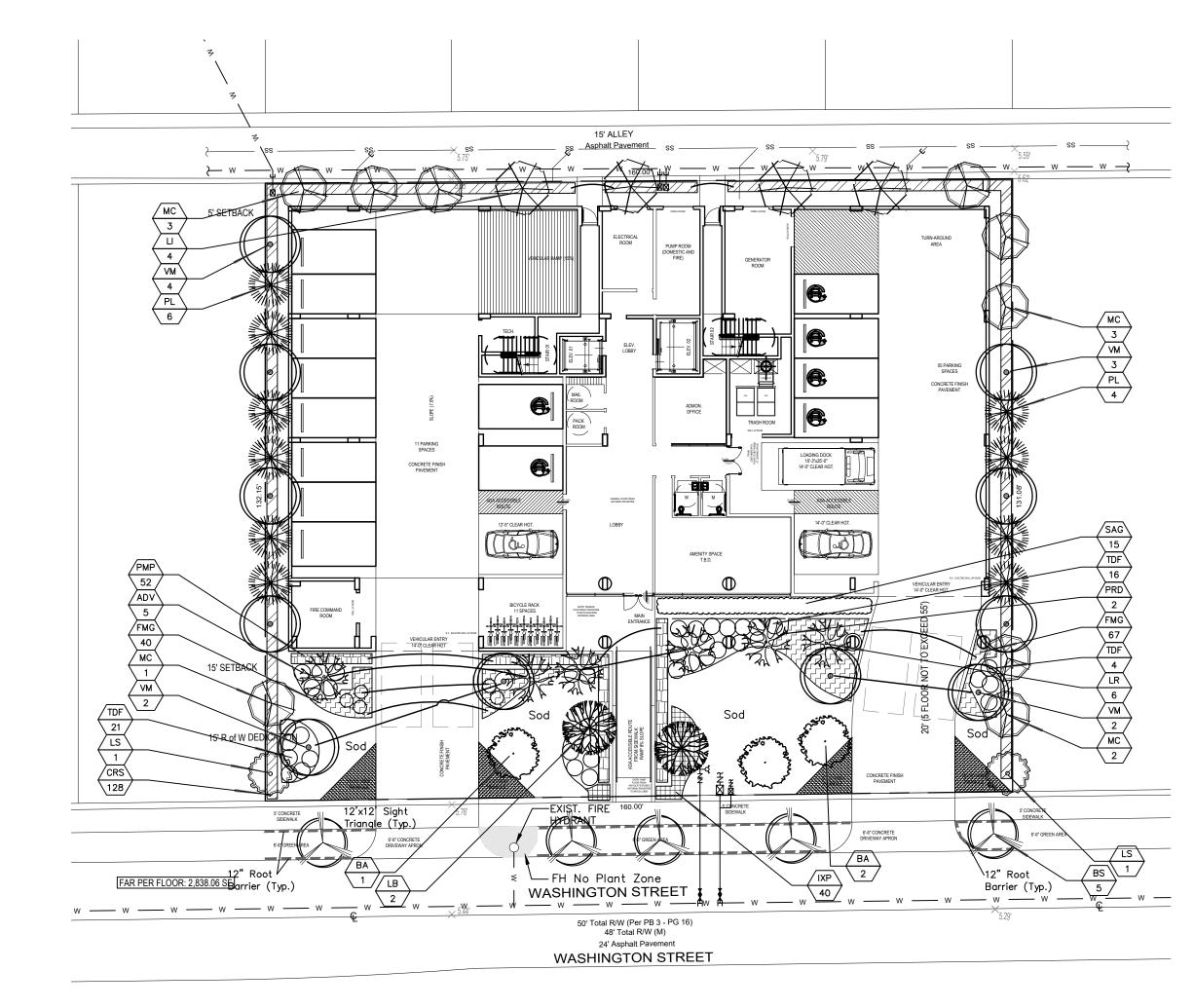
4.6 RAC						
4.d.(3)1	Street Trees: One F	Per 30 LF of Street Frontage	Required		Provided	
	160 LF	Feet of Washington Street	5		5	
4.d.(3)2	5' Landscape Buffe	er Required and Provided. One Tree per 20 LF				
	423 LF	Perimeter of North, East, West Boundaries	22		22	
4.d.(3)5	5' Landscape Buffe	er Required and Provided. 42" Landscape Element				
	432 LF	Perimeter of North, East, West Boundaries	42" Hedge		42" Hedge	CRS 42"
4.d.(3)9	One Tree per every	/ 1,000 square feet of Pervious Area				
	4,840	Square Feet of Pervious (Net Lot) Area.	5		5	
4.d.(3)12	20% Landscape O	pen Space	4,208	20%	4,840	26%
		Total Trees:	32		32	



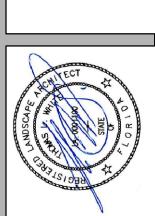
Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

Check positive response codes before you dig!

CITY OF HOLLYWOO	D				
SITE PLAN INFORMATION					
	Property Use:	Regional Activ	ity C	enter	
Pr	operty Zoning:	RAC			
Gross Site Area:	21,039.0	Sq. Feet	=	0.48	Acres
Building Area:	14,259.0	Sq. Feet		67.77%	
Driveway, Walks, Pads:	1,940.0	Sq. Feet		9.22%	
Total Impervious Areas:	16,199.0	Sq. Feet		77.00%	
Landscape Area:	4,840.0	Sq. Feet	=	23.00%	
Total Pervious Areas:	4,840.0	Sq. Feet			



PLAI	NT L	JST					
Code		Drought	QTY.	Botanical Name / Common Name	Specifications		
CODE	REOL	JIRED TR	FES				
BS	(N)	V	5	Bursera simarubra / Gumbo Limbo	12'x5-6', 2" DBH, Sng. Trunk		
LB	(N)	V	2	Lysiloma bahamensis / Wild Tamarind	12'x5-6', 2" DBH, Sng. Trunk		
 LI	()	V	4	Lagerstroemia indica / Crape Myrtle	12'x5-6', 2" DBH, Sng. Trunk		
LS		V	2	Lagerstroemia speciosa / Queen's Crape Myrtle	12'x5-6', 2" DBH, Sng. Trunk		
MC	(N)	V	9	Myrica cerifera / Wax Myrtle	12'x5-6', 2" DBH, Sng. Trunk		
PL	()	V	10	Polyalthia longifolia 'Pendula' / Mast Tree	12'x5-6', 2" DBH, Sng. Trunk		
			32	Total Site Trees	1270 3,2 22.1, eng		
			16	Native Trees			
			50%	Native Trees			
PROP(Code	USED	MITIGAT Drought	OTY	Botanical Name / Common Name	Specifications	DBH	Total
Jude		Diougni	WII.	Dotaineal Name / Common Name	ορεσιποαποτίδ	(Inches)	(Inches)
LR		V	6	Ligustrum japonicum / Recurvifolium	12' Ht., 4" DBH	4	24
BA		V	3	Bulnesia arborea / Verawood	12' Ht., 4" DBH	4	12
D/ (V	0	Dulliesia alborea / Verawood	Total DBH Added		36
					Total DBH Removed		36
					DBH Deficiency		0
				Payment Into	the Tree Trust Fund @ \$350 per ea. 2" =		\$0
PROP	OSED	MITIGAT	ION PALMS	r dymont into	ino froo fract rana @ \$550 por oa. 2		ΨΟ
VM	OOLD	V	11	Veitchia montgomeryana / Montgomery Palm, Sng.	8' CT Min.		
		Total Site Palms	Total Palms Added		11		
			Total Palms Removed		11		
					Palm Deficiency		0
	NTS /	SHRUBS	/ GROUND (
ADV		V	5	Agave desmettiana / Variegated Agave	3x3'		
CRS	(N)	V	128	Clusia rosea / Small Leaf Clusia	42-48"x 24", 36" OC		
PMP		V	52	Podocarpus macrophyllus / Podocarpus	36"x 24", 24" OC		
PRD		V	2	Phoenix roebelenii / Pygmy Date Palm	6-7' OA Ht., Dbl. Trunks		
SAG	/* IV	V	15	Schefflera arboricola / Green Dwarf Schefflera	36-40"x 24-30", 30" OC		
TDF	(N)	V	41	Tripsacum dactyloides / Fakahatchee Grass	6' OA Ht., 6 Canes Min.		
			243	Total Shrubs			
			169	Native Shrubs			
			70%	Native Shrubs			
	ND C	OVERS / S	SOD				
FMG		V	107	Ficus microcarpa / Green Island Ficus	18" Spr., 20-24" OC		
IXP		V	40	Ixora 'Petite' / Red Taiwan Dwarf	12"x12", 20-24" OC		



DRAWN: TW CHECKED: TW DATE: 3-21-2023 SCALE: 1"=20'



Landscape Permit

Washington Street

partment

REVISIONS

4-25-2023: Per City

IRRIGATION LEGEND:

---- 3/4" MAIN LINE

LATERAL ZONE LINES.

CONTROLLER - Intermatic Electric 8 station controller

Mini Clik automatic rain sensor shutoff switch mounted outside on structure.

ZONE VALVES — Fimco 5 Station Indexing.

PROPOSED §" WATER METER, See Civil Plans.

Sch. 40, 2 Sizes Larger.

NOTE — Pipe Size Shown is the Lateral Size, NOT the Sleeve Size

6" POP—UP SPRAY — Hunter MP Rotator Series: Nozzles as Required. NOTE — All of the below may not be used

MP2000 MP1000 MP800
13-21' 8-15' 6-12'
Radius Radius Radius
90 Q □ □ □
120 T □ □ □
180 H □ □ □
240 TT □ □ □
270 TQ □ □ □
360 F □ □

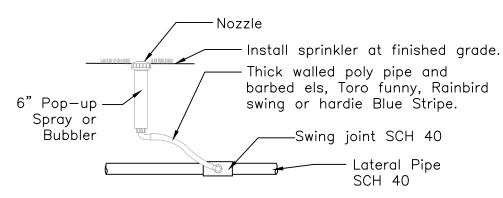
SS-530 5 x 30'

■ ES-515 5 x 15'

0.0 GPM

20NE #

VALVE SIZE



6" Pop-up Spray / Bubbler Detail

IRRIGATION NOTES:

Piping:
Main Lines: PVC SCH 40 Solvent Weld.
Zone Lines: PVC SCH 40 Solvent Weld. 1/2 in. is not used.
All pipe is 3/4 in.
Sleeves and suction Line: PVC SCH 40.

Fittings: SCH 40 PVC

Fabrication: To manufacturers specifications. Use blue or grey PVC cement, square cut, clean and prime all joints.

Allow all main lines to cure for 24 hours before pressuring.

All pipe, fittings, and solvents to conform to latest ASTM specs.

Depth of Lines: Main Line and wiring = 18 in. depth, min.

Sleeving under pavement = 24 in. depth, min.

Suction Line = 24 in. depth, nominal. Zone Lines 1-1/2 in. and smaller = 15 in. depth, min.

Control Wires: AWG 14 for all hot wires and AWG 12 for common.

Solid copper type UF UL listed for direct burial. Run wires under main.

Run spares, two min.
Splice wires only in a valve box. All splices shall be moisture proof using Snap

Splice wires only in a valve tite or DBY UL connectors.

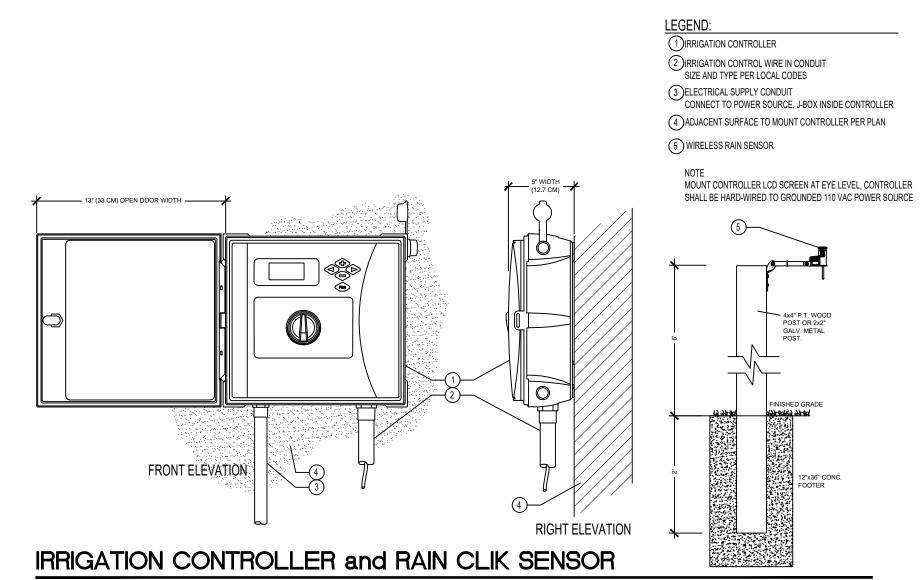
Common shall be white, hot shall be red or color coded Spare shall be black. Run all wires in Grey Electrical SCH 40 conduit..

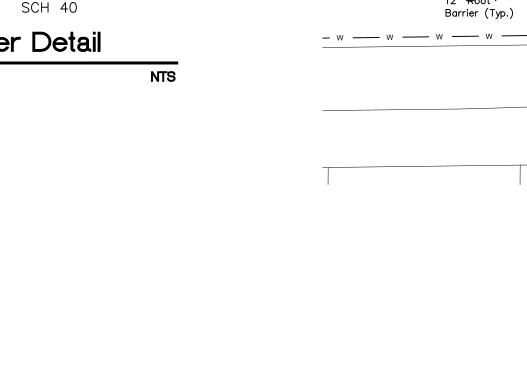
Backfill all trenches free of debris, compact to original density, flush all lines, use screens in all heads, adjust heads for proper coverage avoiding excess water on walls, walks, etc.

All details are graphically shown only. All quantities shall be verified by the contractor prior to installation. It shall be the contractors responsibility to assure complete overlapping coverage. Any discrepancies shall be reported to the owner and landscape architect before proceeding. Codes and local regulations shall take precedence over these plans, it is the contractors responsibility to comply. The landscape architect reserves the right to make minor field changes, the contractor may field adjust spray nozzle selection to provide for proper 100% min. coverage.

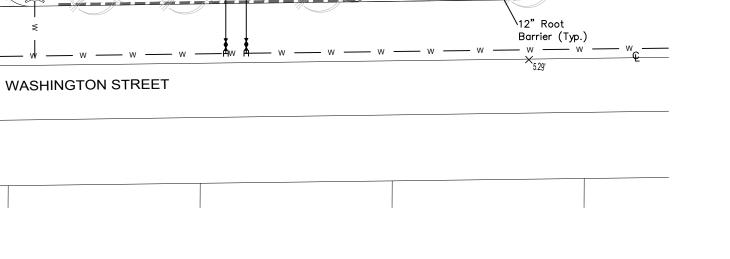
Provide owner with an accurate as installed plan(s) at completion showing main lines, wiring, valves, crossings, etc. using dimensions from fixed datums.

Contractor shall verify all underground utilities prior to commencement of work.









LOCATION MAP

NOT TO SCALE

Funston St

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.

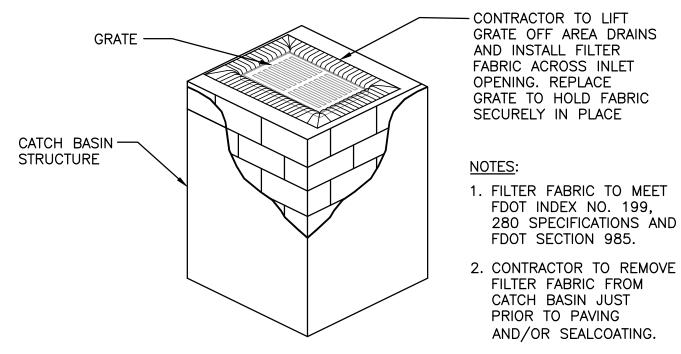
8. PROPERTIES AND WATER WAYS DOWNSTREAM FROM CONSTRUCTION SITE SHALL BE PROTECTED FROM SEDIMENT DEPOSITION AND EROSION AT ALL TIMES DURING CONSTRUCTION.

9. CONTRACTOR IS RESPONSIBLE FOR ALL SURFACE WATER DISCHARGES, RAINFALL RUN OFF OR DEWATERING ACTIVITIES.

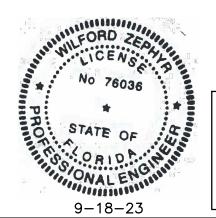
10. CONTRACTOR MUST INCORPORATE ALL BMP'S NECESSARY TO MEET OR EXCEED STATE WATER QUALITY AND SWPPP REQUIREMENTS.

11. THE POLLUTION PREVENTION PLAN IS A MINIMUM GUIDELINE ONLY. ADDITIONAL BMP'S MAY BE NECESSARY AT CONTRACTOR'S EXPENSE.

POST OPTIONS: WOOD 2 1/2" MIN. Ø POST WOOD 2" X 4" OAK 1 1/2" X 1 1/2" STEEL 1.33 LBS/FT. MIN.— 6' MAX. FILTER FABRIC (IN CONFORMANCE WITH SEC. 985 FDOT SPEC.) GRADE TYPE III SILT FENCE



POLLUTION PREVENTION FOR CATCH BASIN



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY WILFORD ZEPHYR ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

LEGEND

PROPOSED CONCRETE

PROPOSED ASPHALT PROPOSED GRADE EXISTING ELEVATION

PROPOSED CATCH BASIN EXISTING CATCH BASIN PROPOSED WATER METER

EXISTING WATER METER

EXISTING WATER VALVE PROPOSED BFP DEVICE EXISTING SAN. SEWER MH EXISTING FIRE HYDRANT

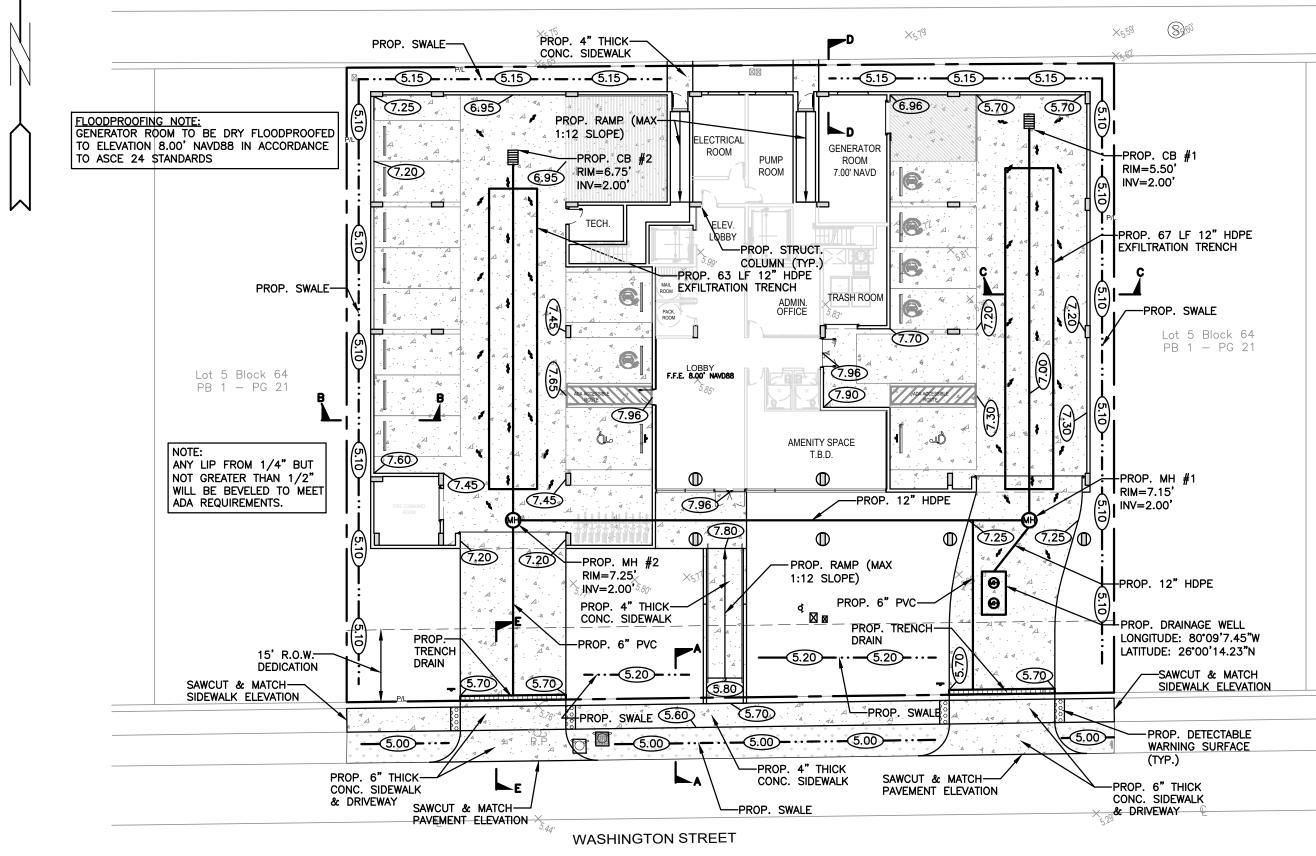
P.E.#:76036

DATE: 2/21/23 SCALE: 1"=20'

1 OF 8 PROJECT NO.: 23-08

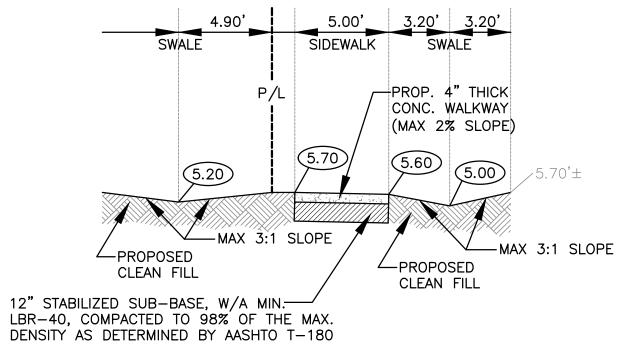
EROSION & SEDIMENT CONTROL PLAN

SCALE: 1"=10'

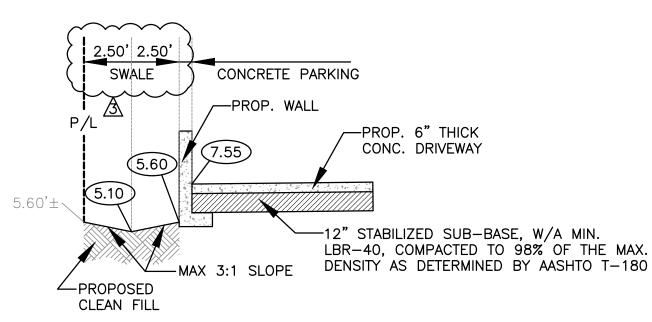


NOTES:

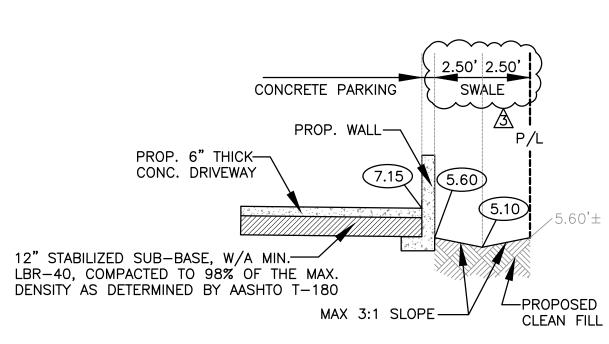
- 1) CONTRACTOR MUST NOTIFY ZEPHYR ENGINEERING OF THE START OF CONSTRUCTION DATE PRIOR TO START OF CONSTRUCTION. ZEPHYR ENGINEERING WILL NOT CERTIFY ANY CONSTRUCTION THAT WAS NOT INSPECTED BY ZEPHYR ENGINEERING, OR ZEPHYR ENGINEERING'S AUTHORIZED REPRESENTATIVE.
- PRIOR TO CONSTRUCTION, CONTRACTOR RESPONSIBLE TO FIELD VERIFY ALL EXISTING ELEVATIONS
- 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
- 4) 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.
- ALL ROOF DRAINS MUST BE CONNECTED TO THE ONSITE DRAINAGE SYSTEM.
- CONTRACTOR TO REFER TO ARCHITECTURAL PLANS FOR SITE PLAN LAYOUT AND DIMENSIONS.
- 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.

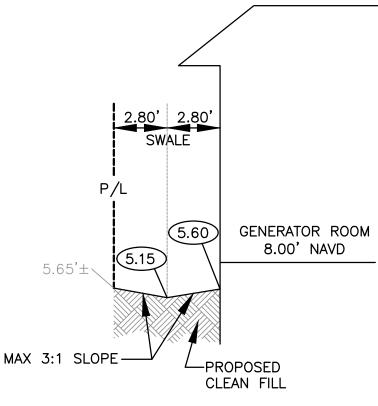


TYPICAL SECTION A-A N.T.S.

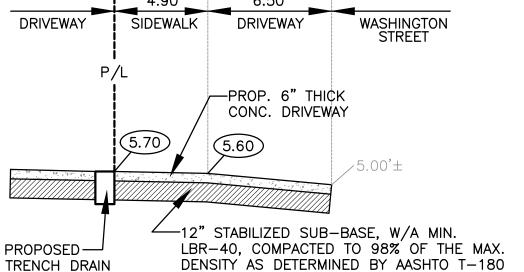


TYPICAL SECTION B-B





TYPICAL SECTION D-D N.T.S.



TYPICAL SECTION E-E N.T.S.



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PAVING, GRADING & DRAINAGE PLAN SCALE: 1"=20'

P.E.#:76036 DATE: 2/21/23

HING

ZEPH

SHEET NO.: 2 OF 8

SCALE: 1"=20'

PROJECT NO.: 23-08

LEGEND

PROPOSED CONCRETE PROPOSED ASPHALT PROPOSED GRADE

8.90 EXISTING ELEVATION PROPOSED CATCH BASIN

EXISTING CATCH BASIN PROPOSED WATER METER

EXISTING WATER METER EXISTING WATER VALVE

PROPOSED BFP DEVICE EXISTING SAN. SEWER MH

EXISTING FIRE HYDRANT

N.T.S.

TYPICAL SECTION C-C



- 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 DETER-MINE THE EXACT LOCATION OF ALL EXISTING UTILITIES
- PRIOR TO CONSTRUCTION THE CONTRACTOR IS TO NOTIFY THE FOLLOWING

LOCAL CITY / COUNTY ENGINEERING & UTILITY DEPARTMENTS FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), AS APPLICABLE UNDERGROUND UTILITIES NOIFICATION CENTER OF FLORIDA

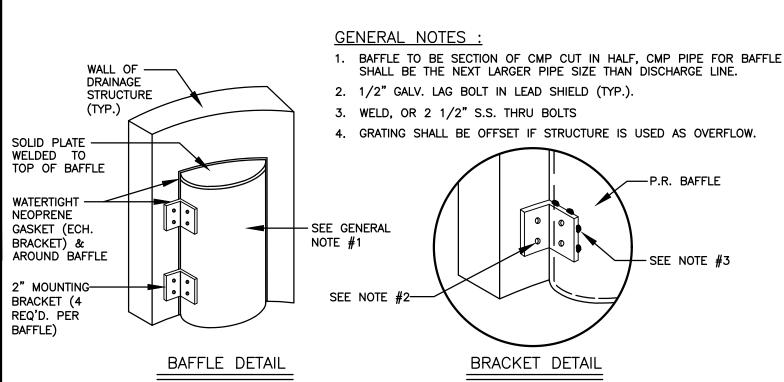
- ALL UNSUITABLE MATERIALS, SUCH AS MUCK, HARDPAN, ORGANIC MATERIAL & OTHER DELETERIOUS MATERIAL AS CLASSIFIED BY AASHTO M-145, FOUND WITHIN THE ROAD & PARKING LOT AREAS SHALL BE REMOVED DOWN TO ROCK OR SUITABLE MATERIAL, & REPLACED W/ THE SPECIFIED FILL MATERIAL IN MAXIMUM 12" LIFTS COMPACTED TO NOT 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.
- 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
- . 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.
- . 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 GRADIATION REPORTS, CONC.
- 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
- 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
- ALL PROPOSED GRADES (ELEVATIONS) REFER TO ASPHALT GRADES UNLESS INDICATED
- . SITE GRADING SHALL BE W/IN 0.1' OF THE REQUIRED ELEVATION & ALL AREAS SHALL BE
- 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
- 1 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
- 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.
- 4. PIPE SPECIFICATIONS: THE MATERIAL TYPE IS SHOWN ON THE DRAWINGS BY ONE OF THE
 - RCP = REINFORCED CONC. PIPE. ASTM DESIGNATION C-76, TABLE II
 - CMP = (SMOOTH LINED) CORRUGATED METAL (ALUM.) PIPE, ASTM DESIGNATION M-196

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

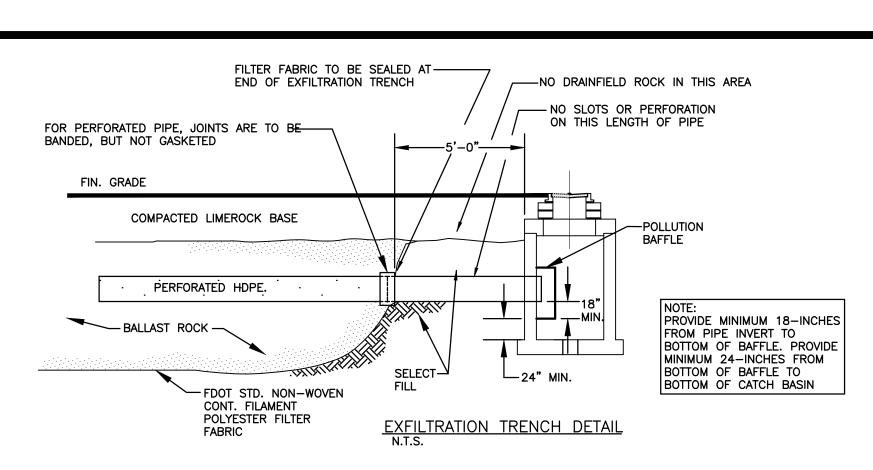
DESIGN MIX SHALL CONFORM TO FDOT SECTION 331 UNLESS OTHERWISE SPECIFIED.

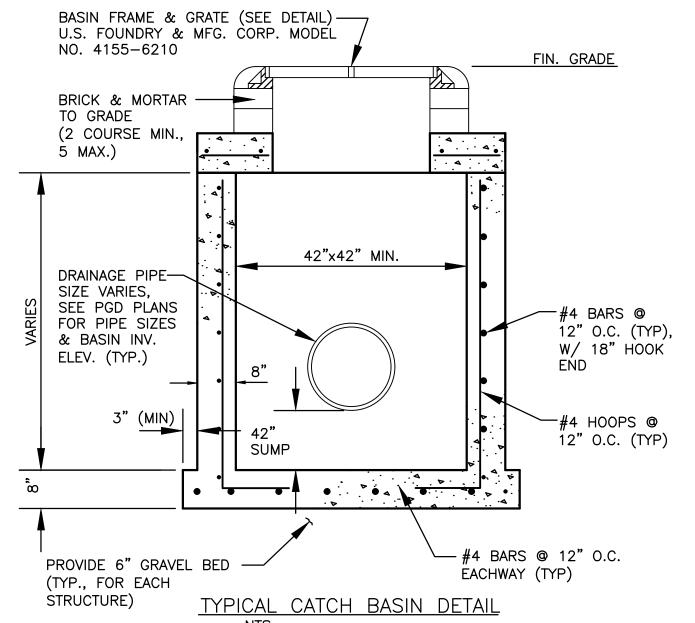
PAVEMENT MARKING & SIGNING STANDARD NOTES :

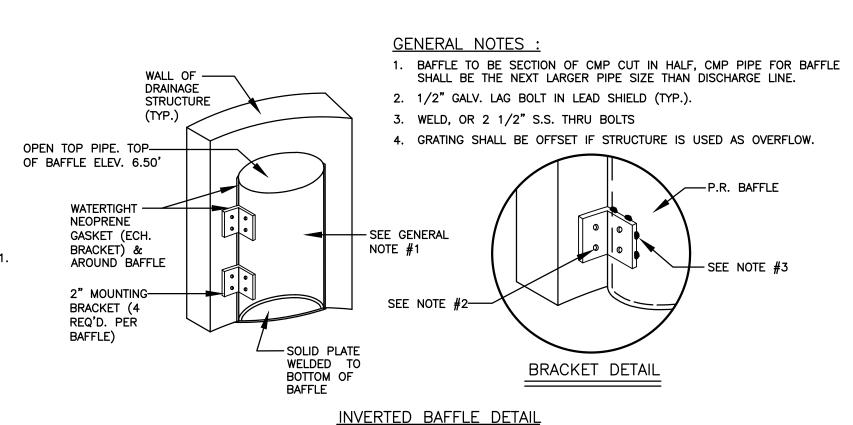
- STOP SIGNS SHALL BE 30"x30" (R1-1), HIGH INTENSITY.
- 2. ALL SIGNS SHALL BE PLACED AT A HEIGHT NOT LESS THAN 5' & NOT GREATER THAN 7', THE HEIGHT IS MEASURED FROM THE BOTTOM OF THE SIGN TO THE EDGE OF NEAREST PAVEMENT. THE SIGN POST SHALL BE PLACED A MINIMUM OF 6' TO A MAXIMUM OF 12' FROM THE ADJACENT PAVEMENT, & A MINIMUM OF 6' FROM THE CROSS TRAFFIC
- 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

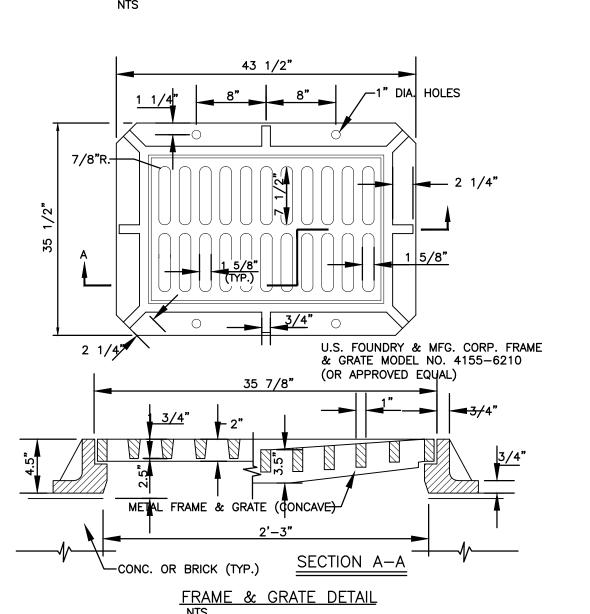


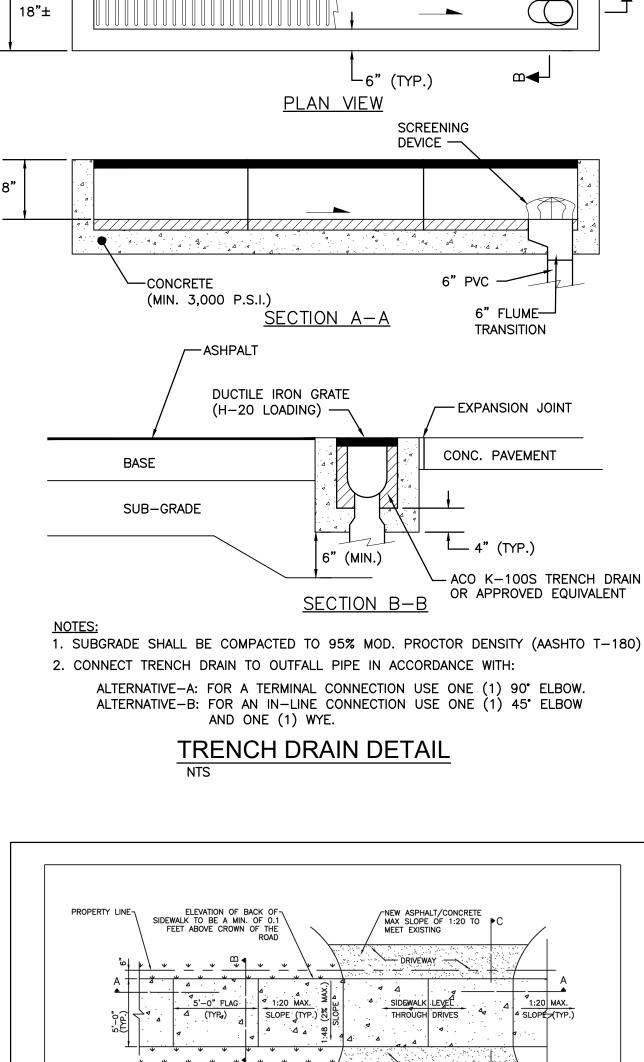
<u>POLLUTION RETARDANT BAFFLE DETAIL</u>



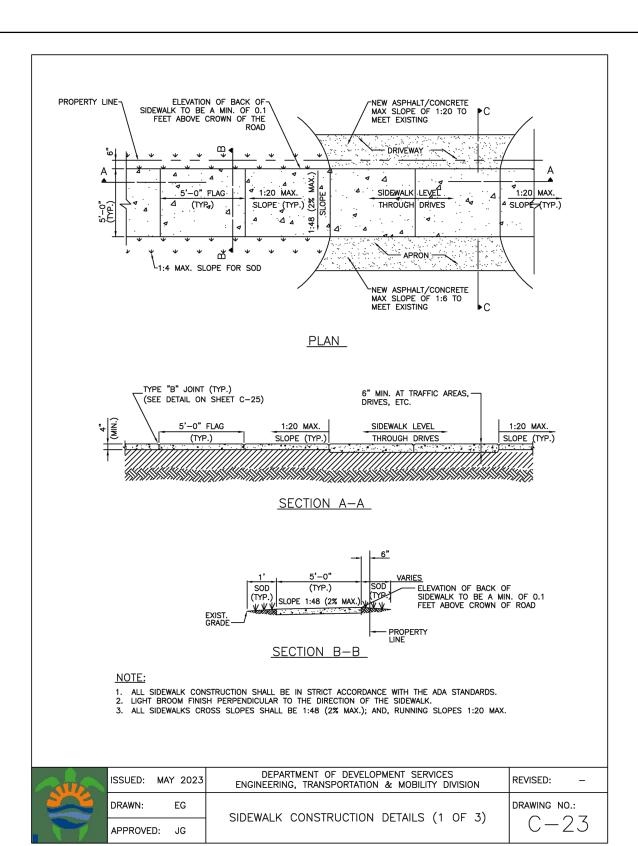


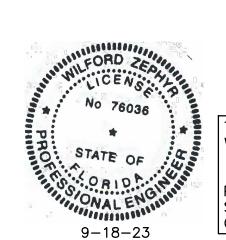






- 21'–0"± –

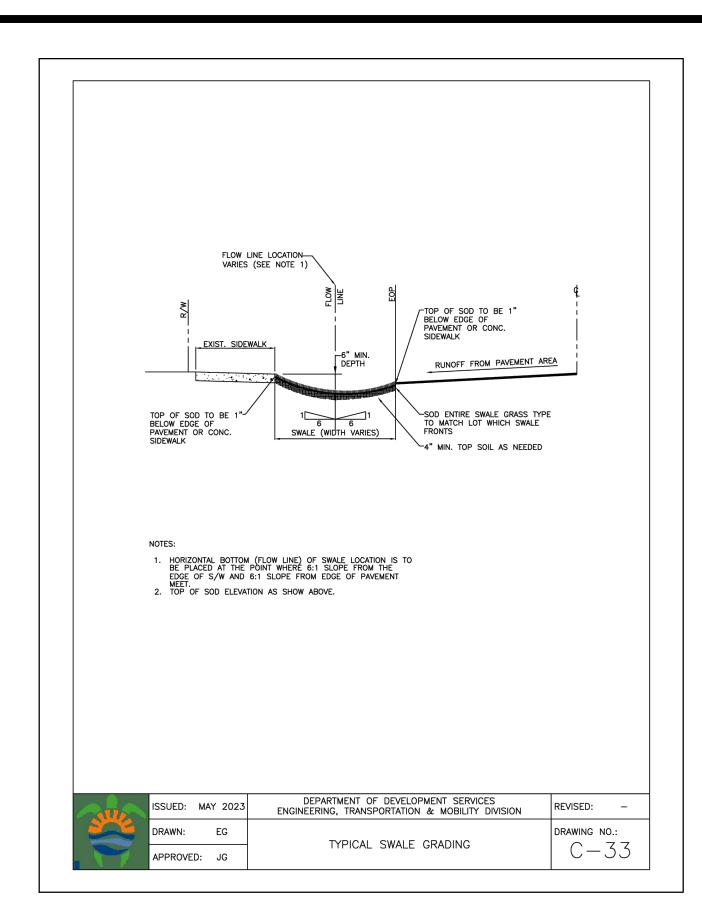


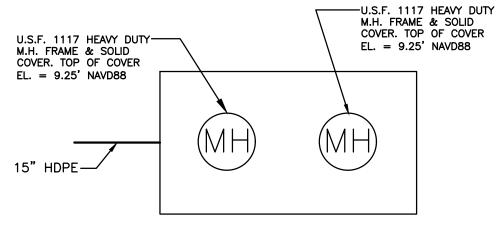


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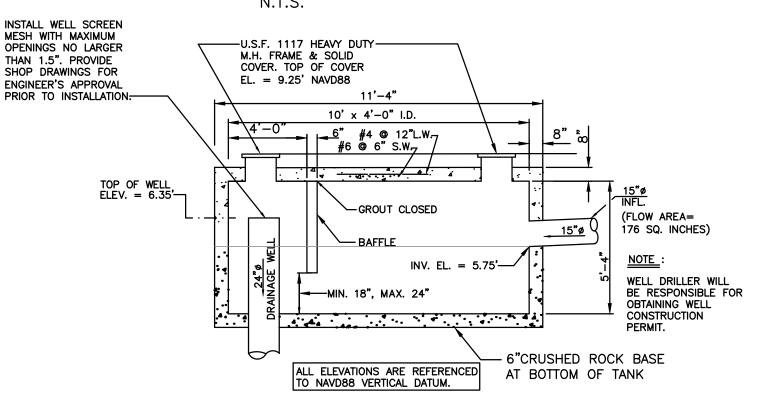
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CIVIL DETAILS I SCALE: N.T.S.

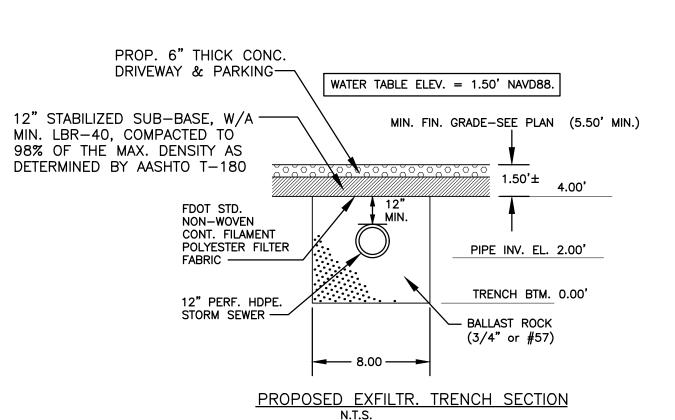




TANK & DRAINAGE WELL PLAN VIEW



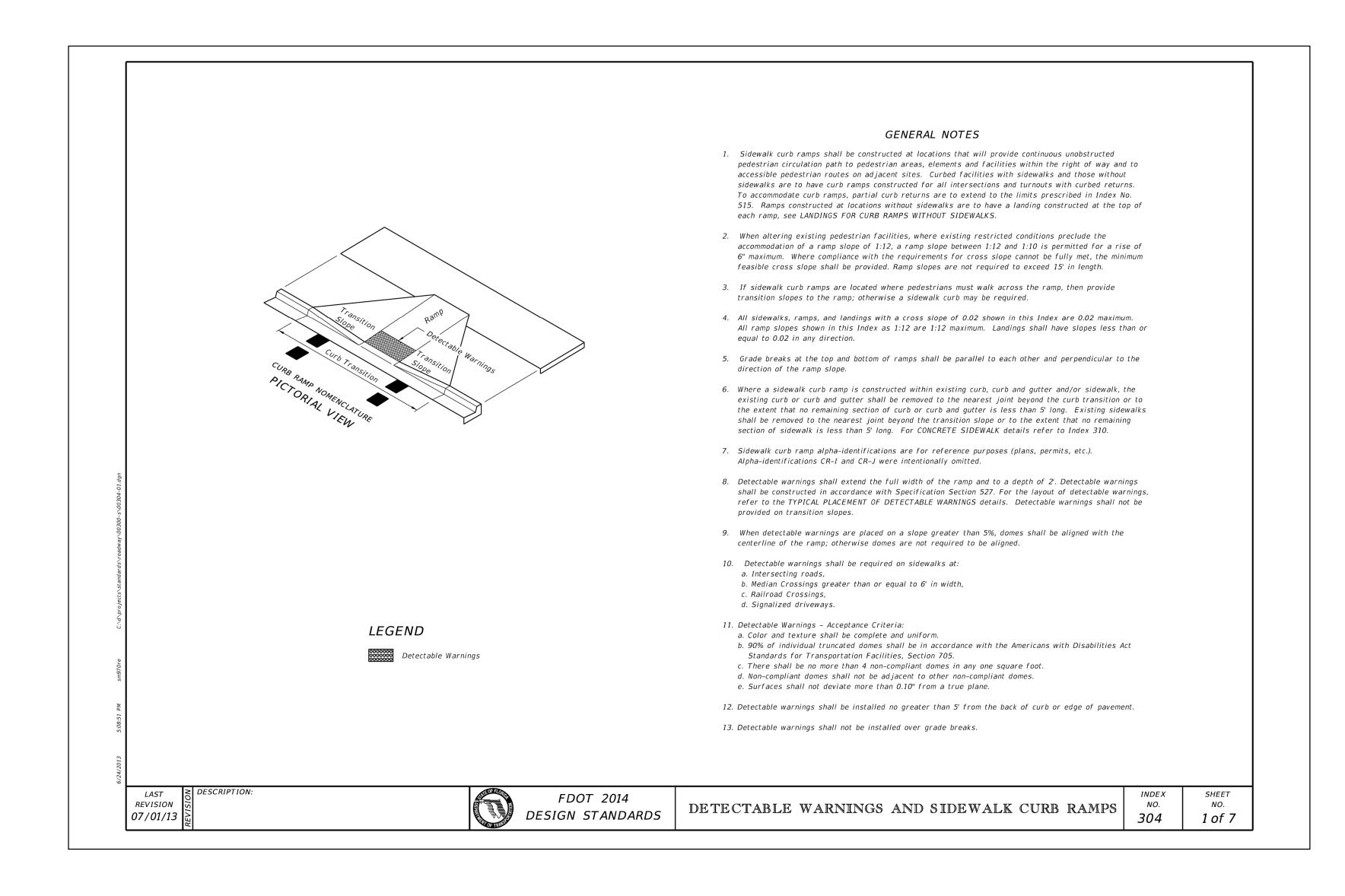
RE-INFORECED CONCRETE RETENTION TANK & DRAINAGE WELL DETAIL N.T.S.



P.E.#:76036 3 OF 8

DATE: 2/21/23 SCALE: N.T.S. SHEET NO.:

PROJECT NO.: 23-08





9-18-23

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CIVIL DETAILS II

SCALE: N.T.S.

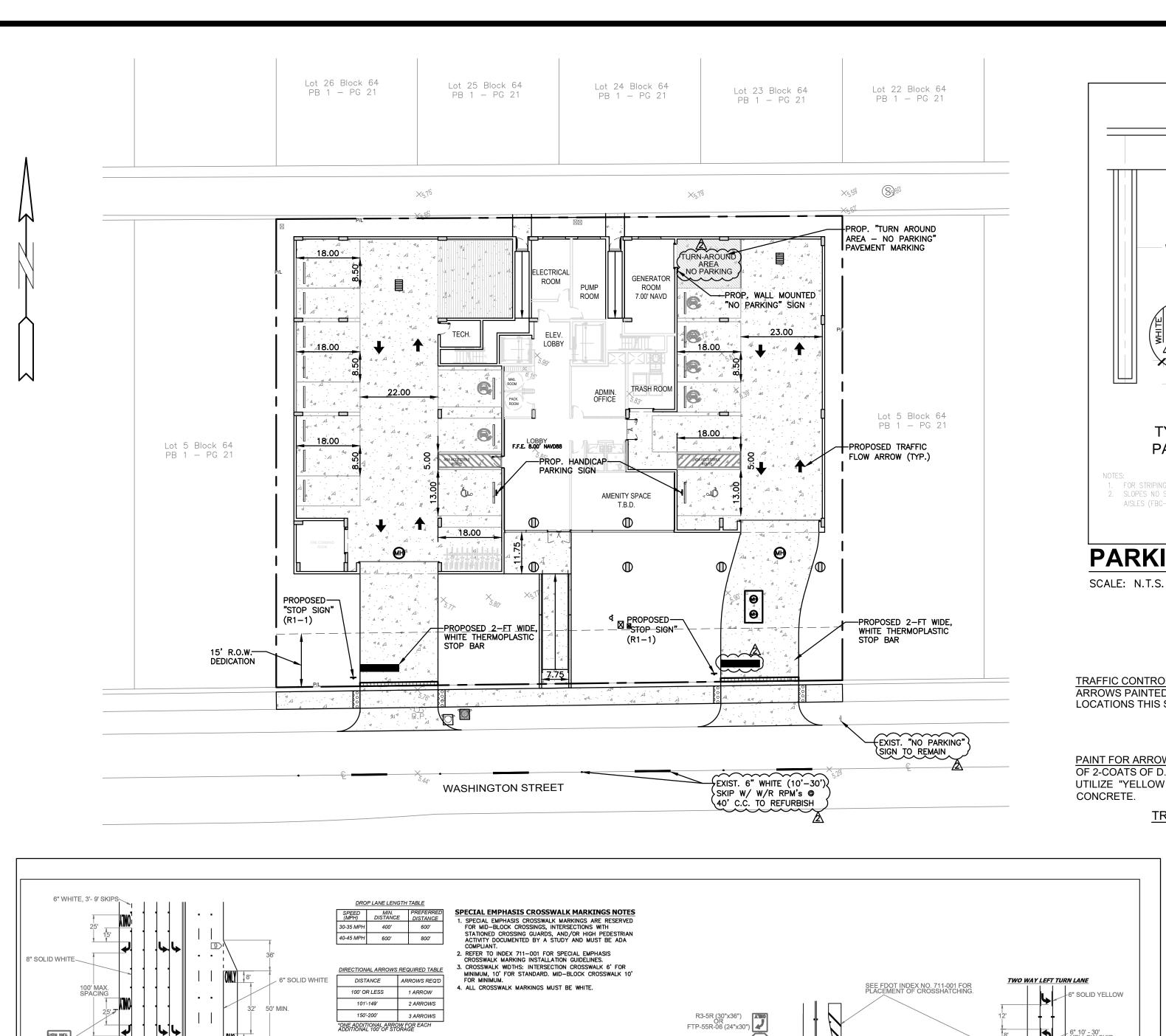
EPH

HING APAR

P.E.#:76036

DATE: 2/21/23 SCALE: N.T.S.

SHEET NO.: 4 OF 8 PROJECT NO.: 23-08



32'---

4 EDGE LINE DETAILS

DIRECTION OF TRAVEL

DIRECTION OF TRAVEL

SEE BCTED STOP SIGN AND STREET IDENTIFICATION ASSEMBL

STREET NAME BLADE DETAILS

TYPICAL DETAILS.

✓ 6" SOLID WHITE OR YELLOW

1. ALL PAVEMENT MARKINGS SHALL BE ALKYD BASED THERMOPLASTIC AND FULLY RETROREFLECTORIZED.

3. ALL PAVEMENT MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", BCTED STANDARDS, AND FDOT DESIGN STANDARDS.

5. RPM's SHALL BE CLASS "B" OR EQUIVALENT, APPLIED WITH EPOXY OR BITUMINOUS ADHESIVE.

6. FDOT APPROVED SEALER SHALL BE USED WHEN APPLYING MARKINGS ON CONCRETE.

8. EXISTING MARKINGS SHALL BE REMOVED BY WATER BLASTING OR SAND BLASTING.

APPLIED WITH P60 ADHESIVE AS PER MANUFACTURERS SPECIFICATIONS

7. FOR BIKE LANE DETAILS SEE FDOT INDEX NO. 711-002.

9. ALL STOP LINES TO BE 4' BEHIND CROSSWALK OR SIDEWALK.

12. RPMS SHALL NOT BE INSTALLED ADJACENT TO BIKE LANES.

REVISIONS

DATE

11-24-2020

04-14-2021

05-06-2022

11. ALL PRODUCTS MUST BE ON FDOT'S APPROVED PRODUCTS LIST (APL).

DESCRIPTION

UPDATED NOTES

UPDATED NOTES

UPDATED NOTES

2. ALL PAVEMENT MARKINGS ON PAVER SYSTEMS SHALL BE 3M 380/381 SERIES TAPE OR EQUIVALENT AND

4. SEE FDOT INDEX NO 706-001 FOR PLACEMENT OF RPM's (FOR BULLNOSE RPM TREATMENT, SEE LEGEND

10. PAVEMENT MARKING REFLECTIVITY SHALL BE UNIFORM ACROSS THE ENTIRE STRIPE AND SHALL HAVE A MINIMUM REFLECTIVITY READING OF 250 MILLICANDELAS FOR WHITE AND 175 MILLICANDELAS FOR YELLOW.

13. LONGITUDINAL CROSSWALK MARKINGS SHALL BE INSTALLED AT ALL CROSS STREETS ON COUNTY ROADS THAT ARE FOUR LANES OR GREATER.

_ . _

-----100'-250'-----

6" DOUBLE YELLOW

1 YELLOW/YELLOW RPM DETAILS

MEDIAN NOSE PAINT DETAILS

PAINTED MEDIAN DETAILS

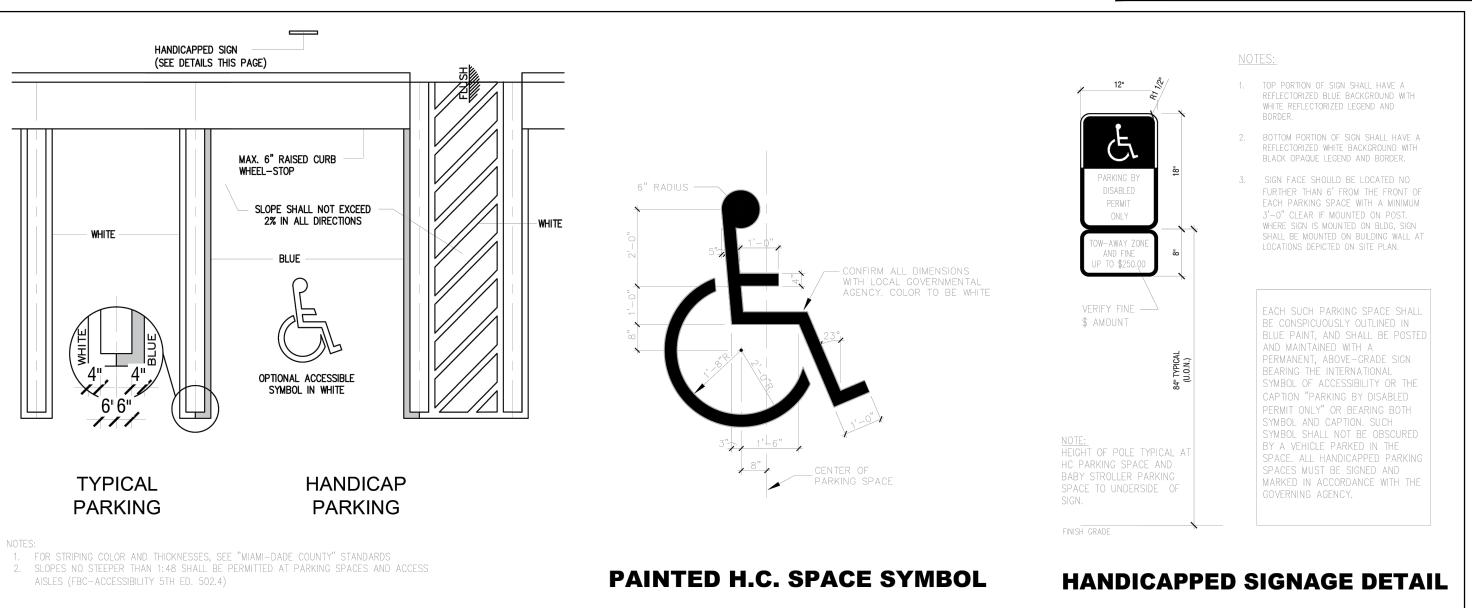
DIRECTION OF TRAVEL

DIRECTION OF TRAVEL REFLECTIVE YELLOW

OCT 6" SOLID DOUBLE YELLOW

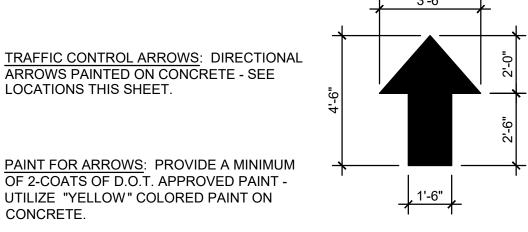
GRASS MEDIAN

CENTERLINE 1'OC, 1' MIN TO CROSSWALK

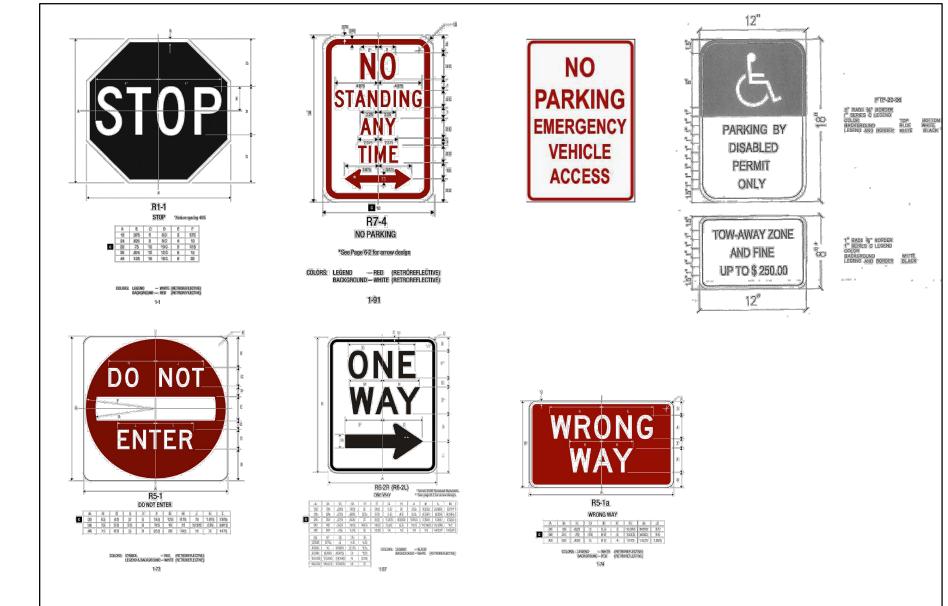


BCTED NO. XXXXXXX

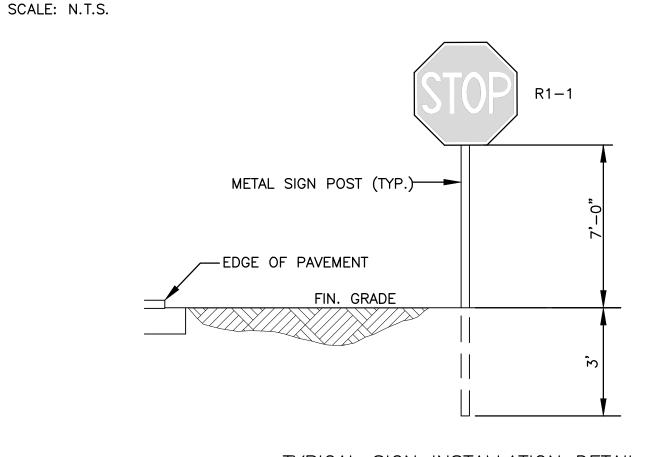
PARKING STALL DETAILS



TRAFFIC CONTROL ARROWS DETAILS







LEGEND PROPOSED CONCRETE PROPOSED ASPHALT 8.90 PROPOSED GRADE EXISTING ELEVATION ШШ PROPOSED CATCH BASIN EXISTING CATCH BASIN PROPOSED WATER METER

ALL ELEVATIONS ARE REFERENCED

TO NAVD88 VERTICAL DATUM

EXISTING WATER METER EXISTING WATER VALVE PROPOSED BFP DEVICE EXISTING SAN. SEWER MI EXISTING FIRE HYDRANT



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PAVEMENT MARKINGS & SIGNAGE PLAN

SCALE: 1"=20'

P.E.#:76036

Z 9. F. F. F.

PH

Ш

SCALE: 1"=20' SHEET NO.:

5 OF 8 PROJECT NO.: 23-08

Z TYPICAL SIGN INSTALLATION DETAIL

DATE: 2/21/23

WHERE SIDE ROADS INTERSECT A MULTI-LANE (INCLUDING TURN LANE) STREET OR HIGHWAY THAT HAS A SPEED LIMIT OF 40 MPH OR LOWER, THE MINIMUM SIZE OF THE STOP SIGN FACING THE SIDE ROAD APPROACHES SHALL BE 36"X36". PUBLIC WORKS DEPARTMENT SHEET PAVEMENT MARKINGS TRAFFIC ENGINEERING DIVISION NO. AND SIGNS **DETAILS** 1 OF 1 F L O R I D A CHECKED BY: CARMELO CARATOZZOLO, P.E.

STOP

→ YELLOW/ YELLOW DEDICATED STREET RPM'S AT 40' O. C.

LOCATIONS THIS SHEET. OF 2-COATS OF D.O.T. APPROVED PAINT -UTILIZE "YELLOW" COLORED PAINT ON CONCRETE.

18" SOLID WHITE

6" SOLID WHITE

7 TYPE IV SEPARATOR DETIALS

TRANSITIONS AT ALL LEFT AND RIGHT TURN LANES

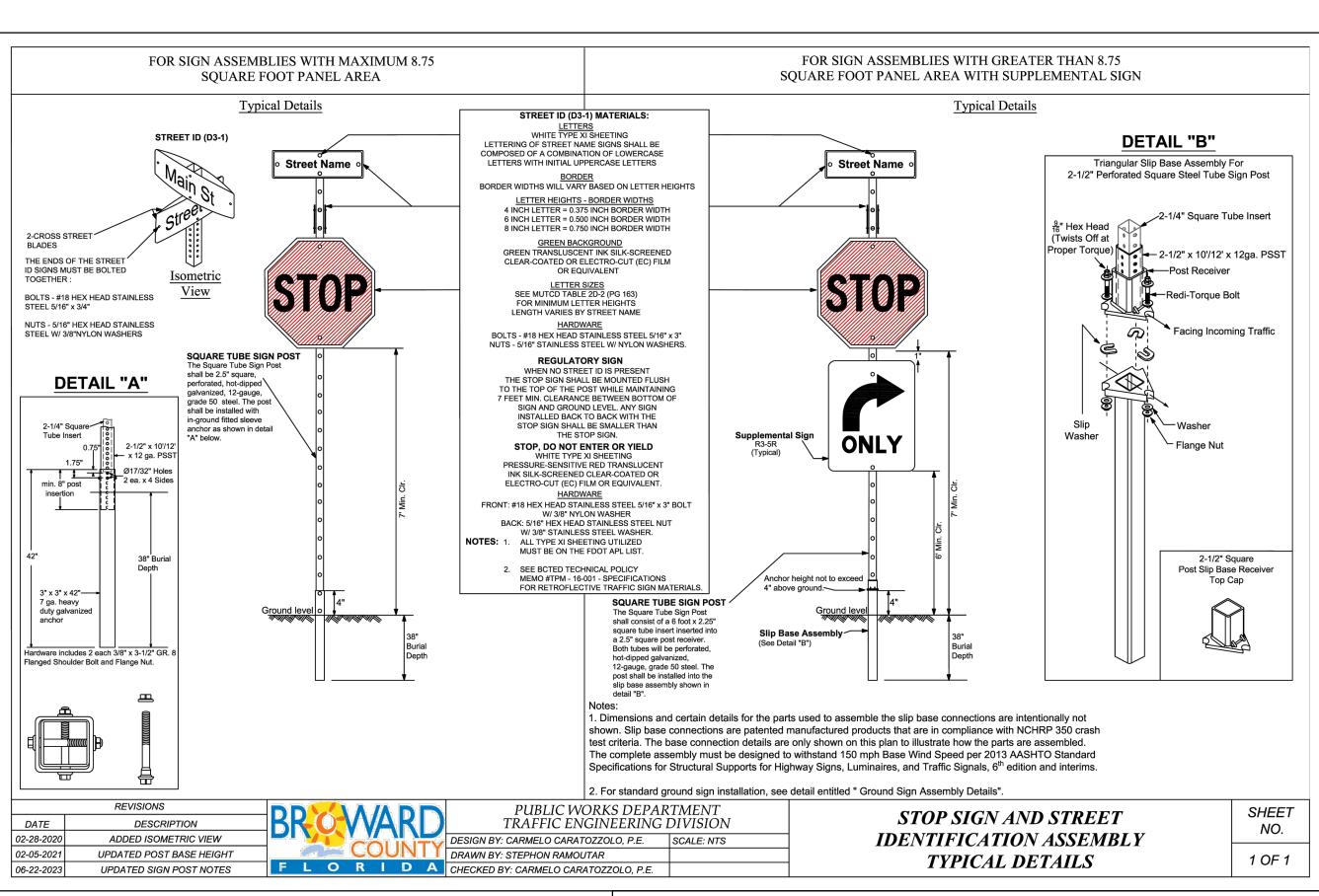
9 2'-4' SKIP DETAILS 2' - 4' SKIPS 6" WHITE SHALL BE USED FOR THE FOLLOWING CONDITIONS:

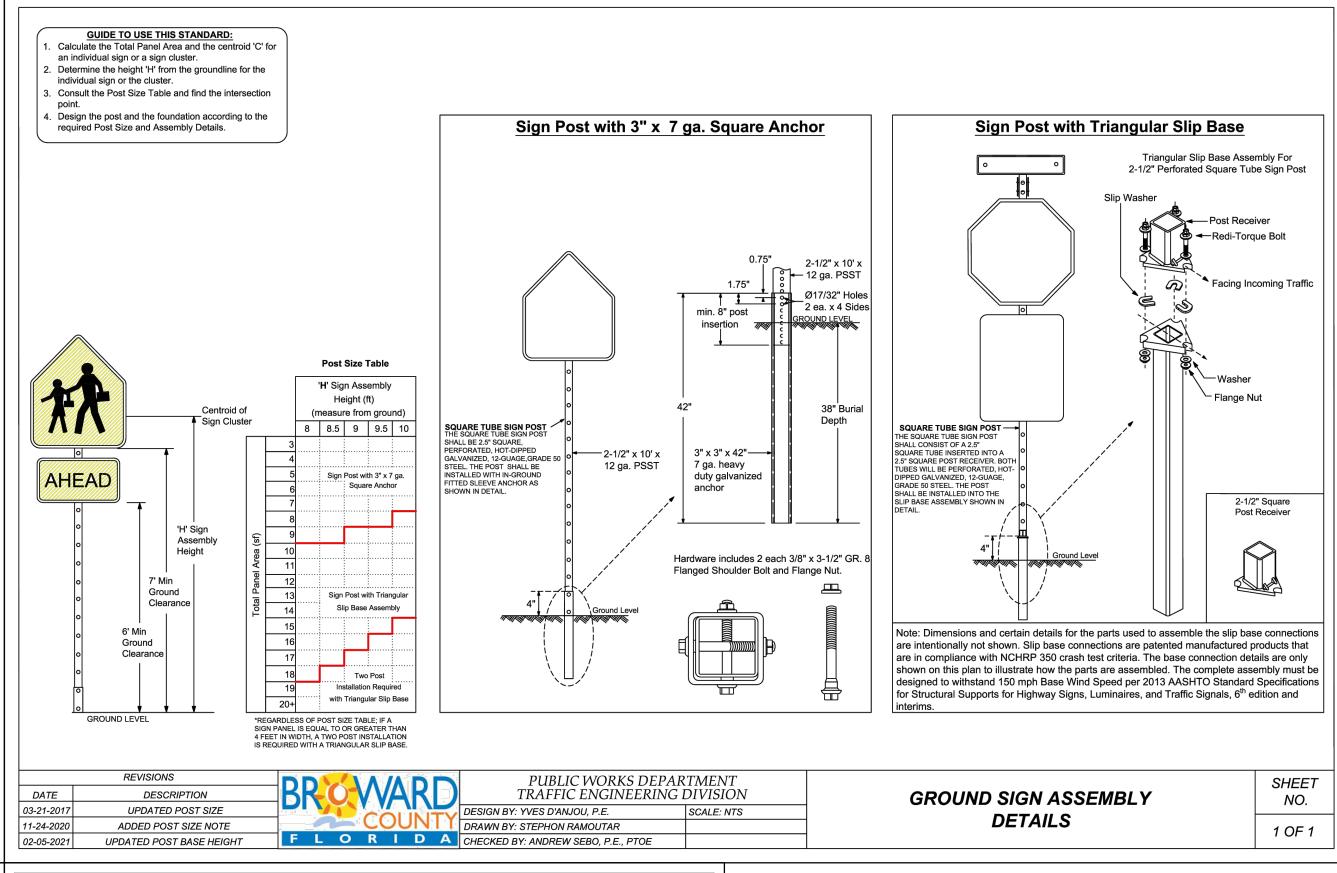
RADIUS GUIDE LINES BETWEEN DUAL LEFTS TURN MOVEMENT (90' RADIUS PREFERRED OR AS NOTED ON PLANS)

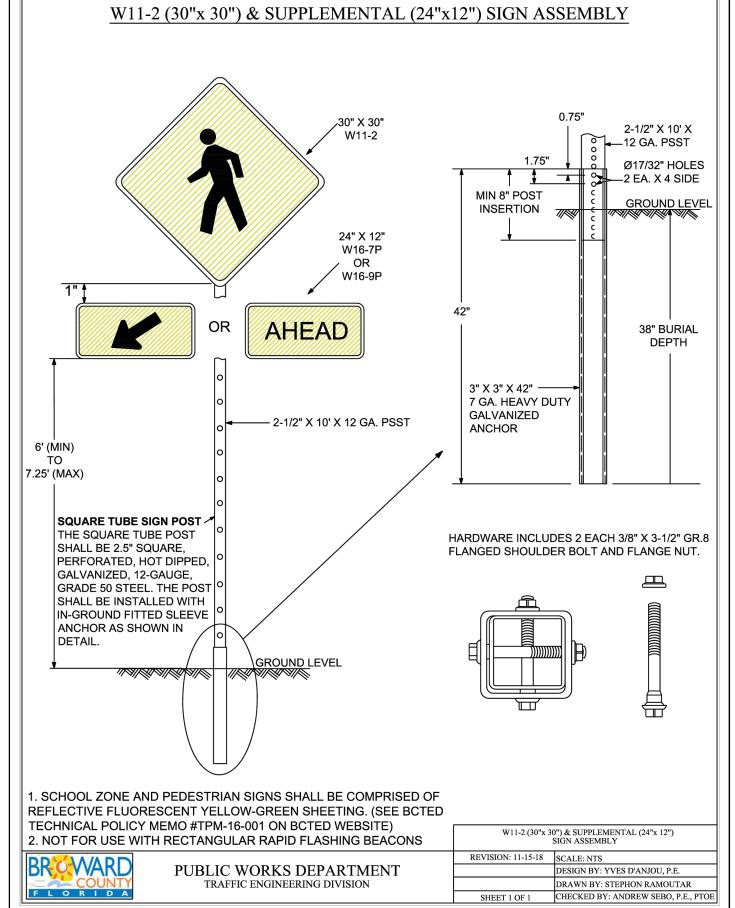
TYPE "F" RB AND GUTTER

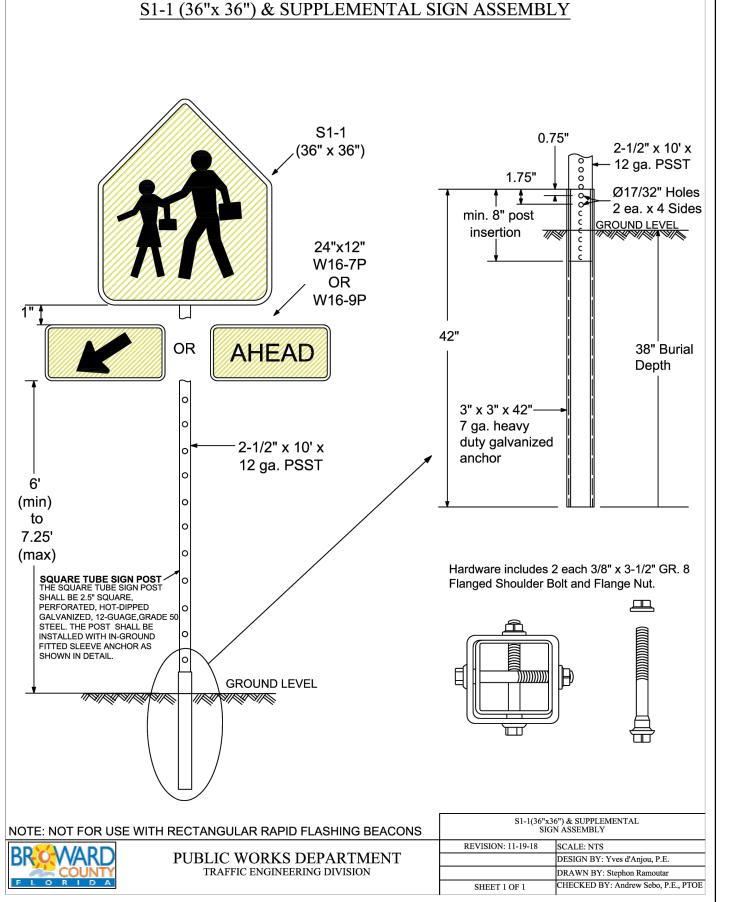
5 CHEVRON DETAILS - CROSSWALK AREAS AND IN FRONT OF CURB RAMPS

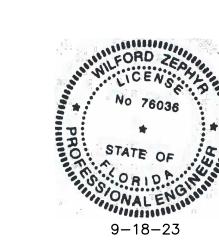
8 - 10' SKIP DETAILS
6' - 10' SKIPS 6" WHITE SHALL BE USED FOR THE FOLLOWING CONDITIONS:











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R.O.W. PAVEMENT MARKINGS DETAILS

R.O.W. PAVEMENT MARKINGS DET SCALE: N.T.S.

REVISIONS

1 9-7-23 TAC REVIEW COMMENTS

HYR ENGINEER
WILFORD ZEPHYR, P.E.
HOLLYWOOD, FL
(786)302-7693

SHINGTON STREET
APARTMENTS
9 WASHINGTON STREET

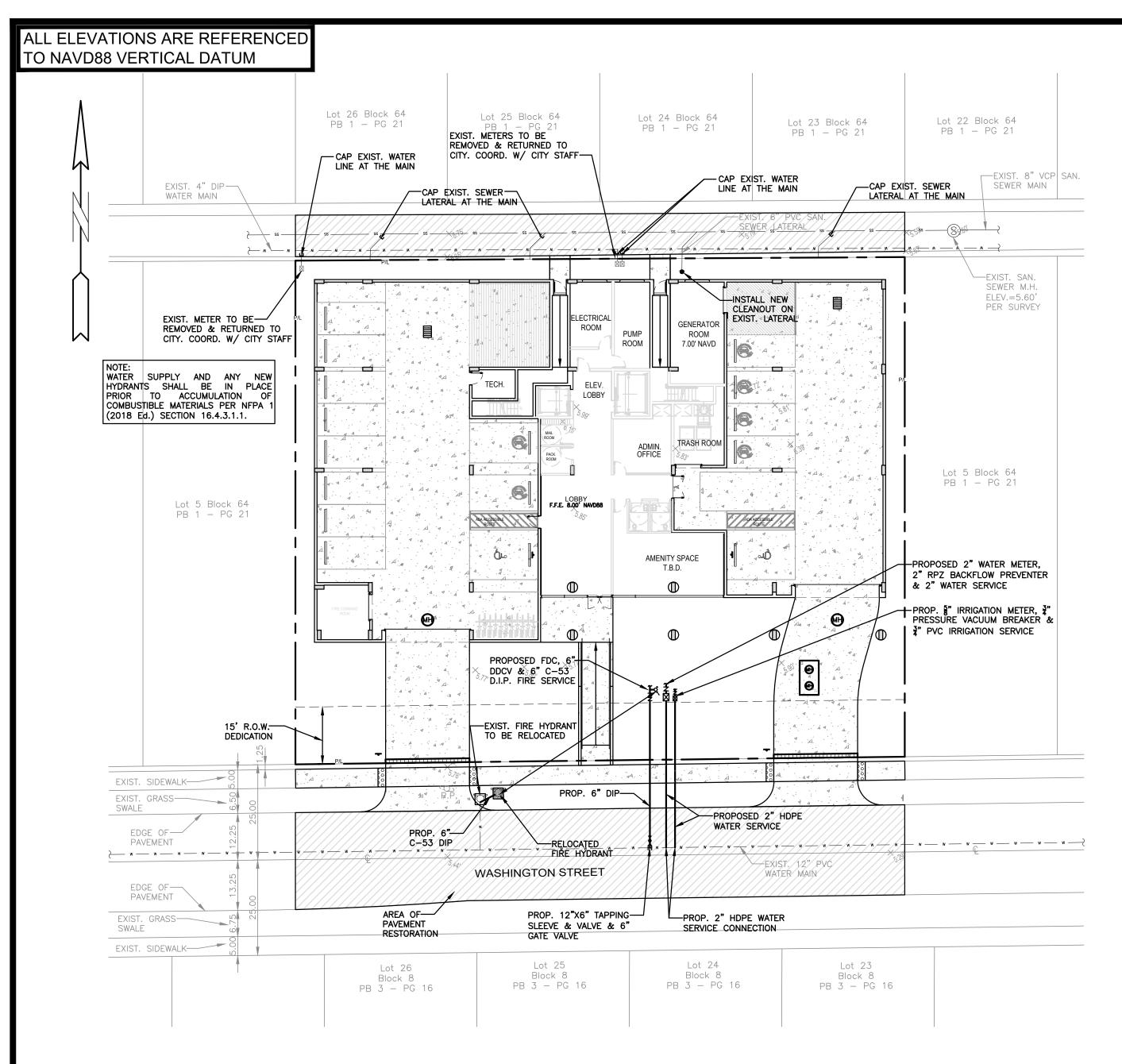
P.E.#:76036 DATE: 2/21/23

SCALE: N.T.S.

SHEET NO.:

6 OF 8

PROJECT NO.: 23-08



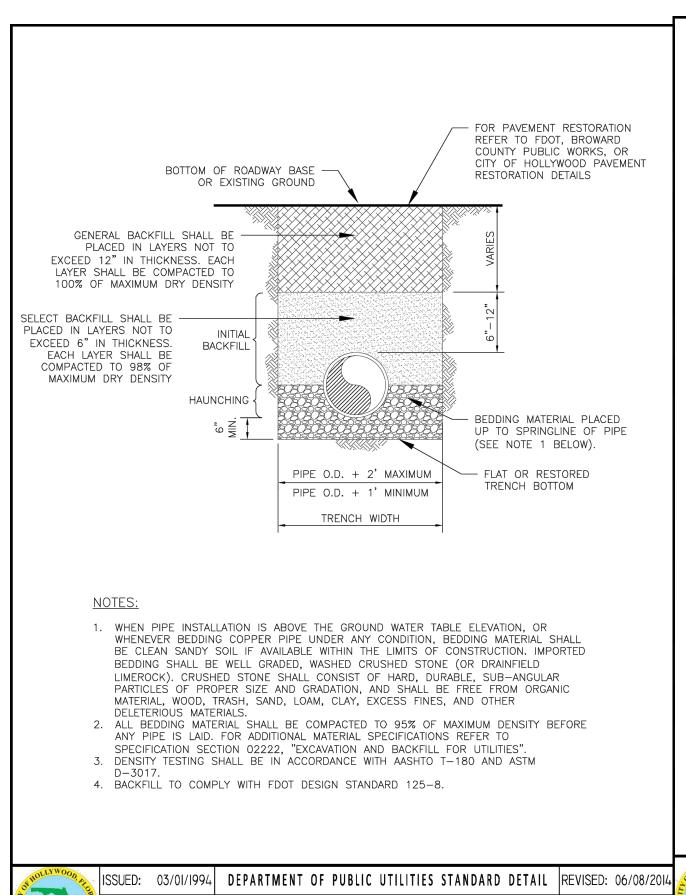


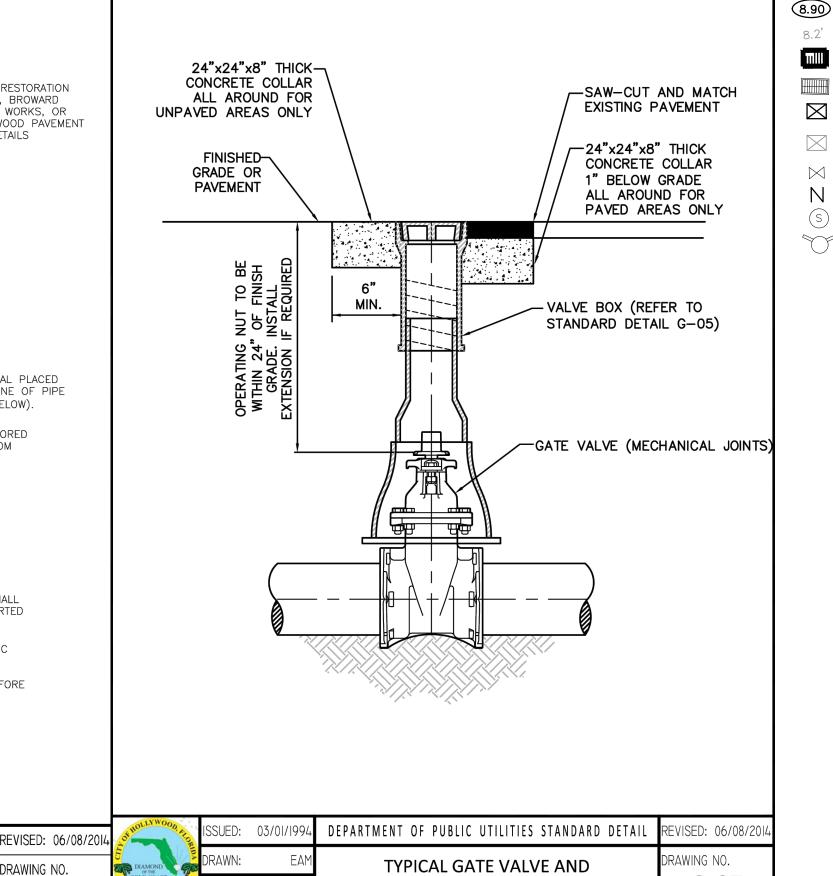
PROJECT INFO:

74 RESIDENTIAL UNITS

WATER DEMAND (74 RESIDENTIAL UNITS)X(250 GPD/UNIT)=18,500 GPD

WASTEWATER DEMAND (74 RESIDENTIAL UNITS)X(250 GPD/UNIT)=18,500 GPD





VALVE BOX SETTING

LEGEND

PROPOSED CONCRETE PROPOSED ASPHALT PROPOSED GRADE EXISTING ELEVATION

PROPOSED CATCH BASIN EXISTING CATCH BASIN

PROPOSED WATER METER EXISTING WATER METER EXISTING WATER VALVE PROPOSED BFP DEVICE EXISTING SAN. SEWER MI

EXISTING FIRE HYDRANT

EER

A D A

P.E.#:76036

DATE: 2/21/23

WATER & SEWER PLAN & DETAILS

FLEXIBLE PAVEMENT RESTORATION NOTES:

PIPE LAYING CONDITION TYPICAL

SECTION (P.V.C.)

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.

4. 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.

6. 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.

7. RESURFACING MATERIAL SHALL BE FDOT SUPERPAVE, AND SHALL BE APPLIED A MINIMUM OF TWO INCH IN THICKNESS.

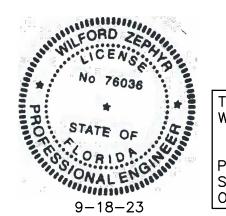
8. MILL AND BUTT JOINT TO EXISTING PAVEMENT.

9. 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.

10. REFER TO SPECIFICATIONS FOR DETAILED PROCEDURES.

11. 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.

OF HOLLYWOOD AND	ISSUED:	03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 11/06/2017
DIAMOND OF DIE	DRAWN:	EAM	FLEXIBLE PAVEMENT RESTORATION	DRAWING NO.
GOLD COAST OF THE PORT OF THE	APPROVE): XXX	NOTES	G-12
CORATE				



SCALE: 1"=20'

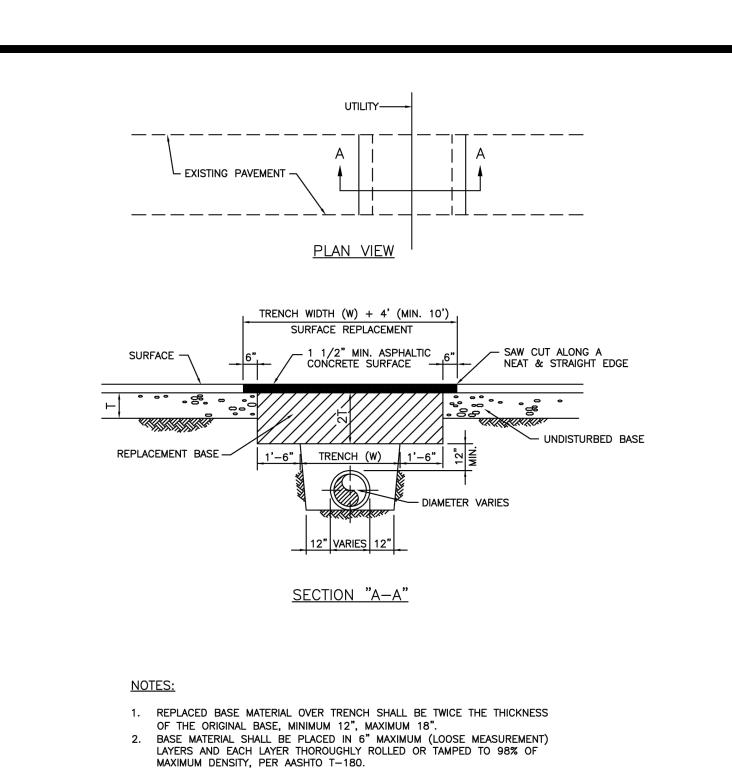
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G-07

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SCALE: 1"=20'

7 OF 8 PROJECT NO.: 23-08



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.

6. BASE MATERIAL SHALL HAVE A MINIMUM LBR OF 100 AND A MINIMUM

7. IF THE TRENCH IS FILLED TEMPORARILY, IT SHALL BE COVERED WITH A 2" ASPHALTIC CONCRETE PATCH TO KEEP THE FILL MATERIAL FROM RAVELING

DEPARTMENT OF DEVELOPMENT SERVICES

ENGINEERING, TRANSPORTATION & MOBILITY DIVISION

FLEXIBLE PAVEMENT RESTORATION

PERPEND. UTILITY INSTALLATION

APPROVED:

CARBONATE CONTENT OF 70%.

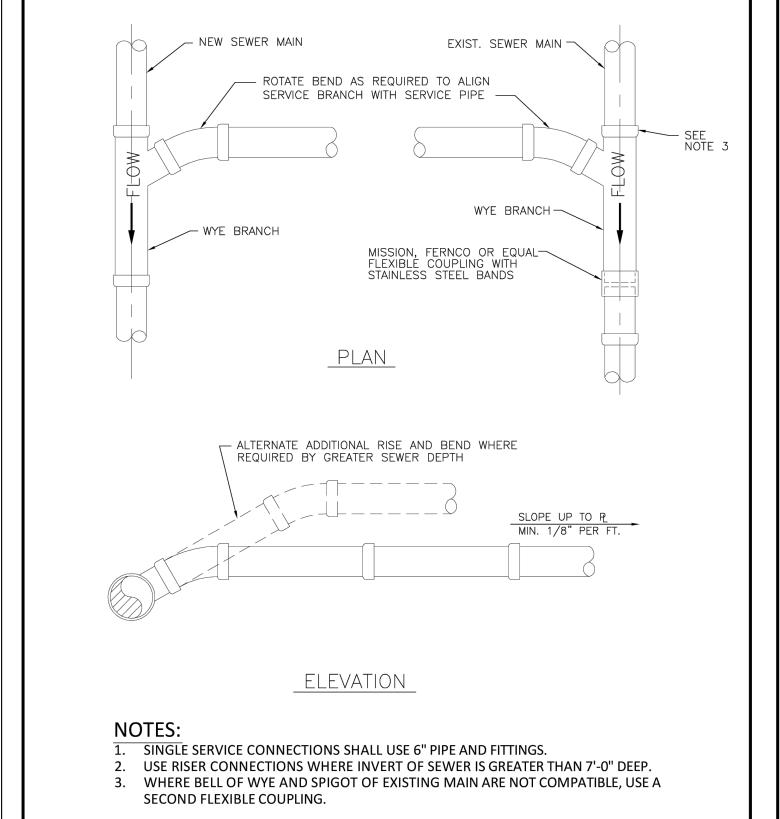
SSUED: MAY 2023

APPROVED: JG

DRAWN:

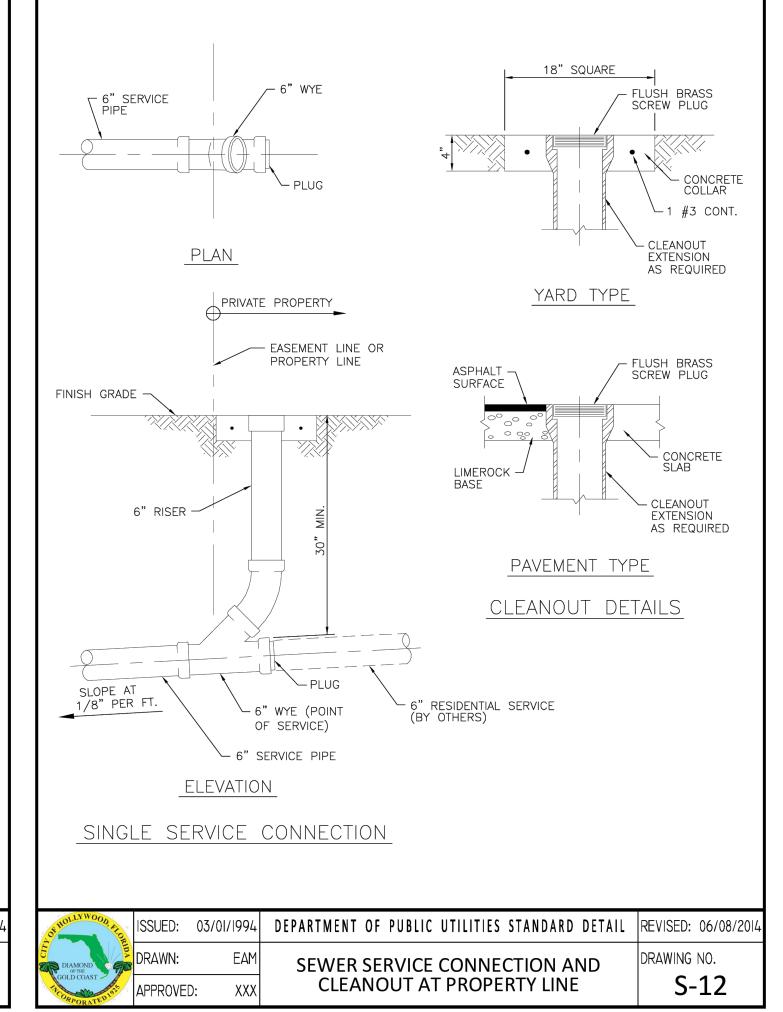
UNTIL REPLACED WITH A PERMANENT PATCH.

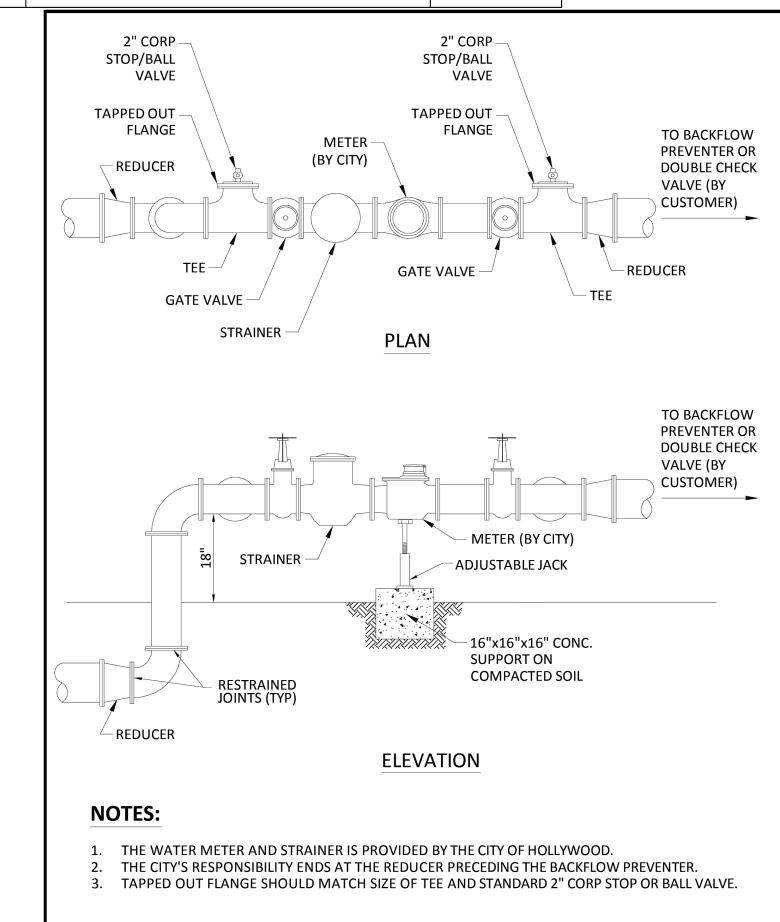
8. MINIMUM PAVEMENT RESTORATION WIDTH IS 10'.



SSUED: 03/01/1994 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/20

WYE BRANCH CONNECTION





TYPICAL METER 3" DIAMETER

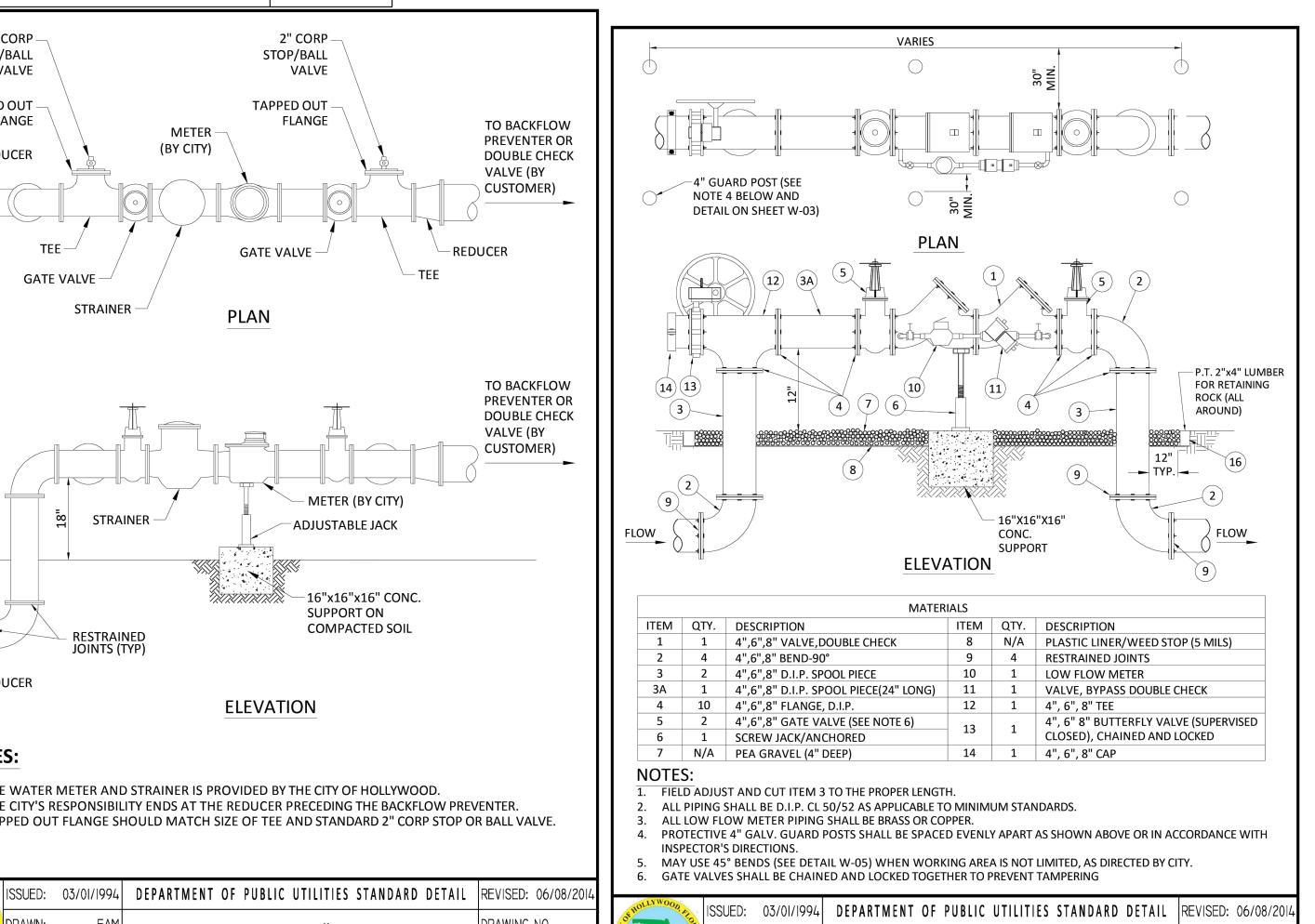
AND LARGER

REVISED:

DRAWING NO .:

APPROVED:

DRAWING NO.



TYPICAL 4", 6" AND 8" DOUBLE CHECK

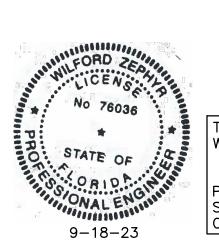
DETECTOR FOR FIRE SPRINKLER SERVICE

W/B.V. CONNECTION (90° BENDS)

DRAWING NO.

W-04

DRAWING NO.



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WATER & SEWER DETAILS

NEERING P.E.

Z

P.E.#:76036 DATE: 2/22/23 SCALE: N.T.S.

8 OF 8 PROJECT NO.: 23-08

Hydrant Flow Test Procedure

Procedure For One & Two Flow Hydrant Test:

- Establish hydrants closest to location and associated water main(s).
- Static/Residual hydrant (**P**) should be located close to location (preferably off same main as to provide future water source).
- Flow hydrant(s) (**F**) should be located off same main up and down stream from mid-point test (static/residual) hydrant.
- Note static system pressure off **P** hydrant before opening any other (note any unusual or remarkable anomalies such as high demand sources, construction, etc.)
- Flow **F1** hydrant and record GPM and residual off **P** hydrant.
- Flow **F2** hydrant and record GPM and residual off **P** hydrant.
- Flow **F1** & **F2** simultaneously and record GPM separately from **F1** and **F2** and record **P** hydrant residual.

Le	gend:		
	F1 &	Designation shall represent first and second flowed hydrants respectively	
	P	Designation shall represent test hydrant for static and residual distribution system pressures.	

K. Architecture

Date: 1/5/23	Time:	9:00am	Static Pre	essure -		58psi	
Residual/Static Hydrant		Address/Locat	ion	Residual Pre		Pressures	
P - Hydrant				F-1 O	nly	F-2 Only	
FH004447		1739 Washington st		58psi	_	58psi	
				F-1& F	55psi		
Flow Hydrants		Address/Locat	ion	Flow Rate			
F-1 Hydrant				GPM			
(Individual) 912 S 17TH Ave FH004395		Ave	1190				
F-2 Hydrant					GI	PM	
(Individual)		1747 Washir	ngton St	1190		90	
F-1 Hydrant					GI	PM	
(Both Flowing)					11	90	
F-2 Hydrant					GI	PM	
(Both Flowing)					11	90	



A Civil Engineering Firm
Tel: (786)302-7693 • Email: wilford@zephyrengineeringfl.com

September 5, 2023

FIRE FLOW CALCULATIONS POLK STREET APARTMENTS

2320 Polk Street Hollywood, FL 33020

These calculations are for a four-story building. The total area of the three (3) largest successive floors is 28,974 SF. The floors used for the fire flow calculations are as follow:

2nd Floor: 9,658 SF 3rd Floor: 9,658 SF 4th Floor: 9,658 SF

Fire Flow Area = 28,974 SF

Per NFPA 18.4, Fire Flow Requirements, the required fire flow for Type II (222) construction for the above-referenced fire flow area is 1,750 GPM.

Per NFPA 18.4.5.3.2, a reduction in required fire flow of 75% shall be permitted when the building is protected throughout by an approved automatic sprinkler system. The resulting fire flow may not be less than 1000 gpm.

(1,750 GPM)X0.75=1,312.50 GPM (fire flow credit for automatic sprinkler system)

(1,750 GPM) - (1,312.50 GPM) = 437.50 GPM

Fire flow required=1,000 GPM

Prepared by:

9-15-23

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Wilford Zephyr, P.E., LEED AP, CFM

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY WILFORD ZEPHYR ON THE DATE ADJACENT TO THE SEAL.

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