

**CONTRACTOR AGREEMENT
(EMERGENCY UTILITY REPAIRS FOR WATER, WASTEWATER AND STORMWATER)
WORK ORDER NO. 2**

THIS WORK ORDER for Emergency Utility Repairs for Water, Wastewater and Stormwater ("Work Order" hereafter) is made between the **City of Lake Worth Beach**, a Florida municipal corporation located at 7 North Dixie Highway, Lake Worth, Florida 33460 ("City" hereafter) and **Johnson-Davis Incorporated**, a company authorized to do business in the State of Florida ("Contractor" hereafter).

1.0 Project Description:

The City desires the Contractor to provide all goods, services, materials and equipment as identified herein related to the Emergency Utility Repairs for Water, Wastewater and Stormwater project generally described as: John Rice Way drainage improvements . (the "Project"). The Project is more specifically described in the plans prepared by WGI, Inc., dated April 3, 2023, and which are incorporated herein by reference.

2.0 Scope

Under this Work Order, the Contractor will provide the City of Lake Worth Beach with construction services for the Project as specified in the **Contractor's proposal attached hereto and incorporated herein as Exhibit "1"**.

3.0 Schedule and Liquidated Damages

Substantial completion of all services and work under this Work Order shall be within **60 calendar days** from the Effective Date of this Work Order. Final completion of all services and work (and all punch-list items (if any)) under this Work Order shall be within **90 calendar days** from the Effective Date of this Work Order. The Effective Date of this Work Order is the date following the parties' execution of this Work Order and the City's delivery of a Notice to Proceed to the Contractor via e-mail, facsimile or other form of delivery as documented by the City. Substantial completion occurs when the services and work has progressed to the point where, in the opinion of the City, the work is sufficiently complete in accordance with the Contract Documents and this Work Order, so that the Project can be utilized for the purposes for which it is intended. Final completion occurs when all services and work (including punch-list items) has been completed and the project becomes fully operational and accepted by the City.

Liquidated Damages. The City and Contractor recognize that time is of the essence under this Work Order and the Contract Documents, and that the City will suffer financial loss if the services and work described in this Work Order and the Contract Documents are not completed within the times specified in this Work Order. The City and Contractor recognize, agree and acknowledge that it would be impractical and extremely difficult to ascertain and fix the actual damages that the City would suffer in the event Contractor neglects, refuses, or otherwise fails to complete the services and work within the time specified. Accordingly, instead of requiring any such proof, the City and Contractor agree that as liquidated damages for delay (but not as a penalty) Contractor shall pay the City five hundred dollars (\$500.00) for each day that expires after the time specified in this Work Order.

4.0 Compensation and Direct Purchases

This Work Order is issued for a unit price, not to exceed amount of \$73,730 (seventy three thousand seven hundred and thirty dollars and zero cents). The attached proposal identifies all costs and expenses included in the unit price, not to exceed amount.

The following Direct Purchases are to be made under this Work Order by the City: N/A.

5.0 Project Manager

The Project Manager for the Contractor is Jim Amsler, phone:561-588-1170; email: jamsler@johnsondavis.com; and, the Project Manager for the City is Julie Parham, phone:561-586-1798; email: jparham@lakeworthbeachfl.gov.

6.0 Progress Meetings

The Contractor shall schedule periodic progress review meetings with the City Project Manager as necessary but every 30 days as a minimum.

7.0 Contractor's Representations

In order to induce the City to enter into this Work Order, the Contractor makes the following representations:

7.1 Contractor has familiarized itself with the nature and extent of the Contract Documents including this Work Order, work, site, locality, and all local conditions and laws and regulations that in any manner may affect cost, progress, performance or furnishing of the work.

7.2 Contractor has obtained at his/her own expense and carefully studied, or assumes responsibility for obtaining and carefully studying, soil investigations, explorations, and test reports which pertain to the subsurface conditions at or contiguous to the site or otherwise may affect the cost, progress, performance or furnishing of the work as Contractor considers necessary for the performance or furnishing of the work at the stated work order price within the Work Order stated time and in accordance with the other terms and conditions of the Contract Documents, including specifically the provisions of the IFB; and no additional examinations, investigations, explorations, tests, reports, studies or similar information or data are or is deemed necessary by Contractor for such purposes.

7.3 Contractor has reviewed and checked all information and data shown or indicated on the Contract Documents with respect to existing Underground Facilities at or contiguous to the site and assumes responsibility for the accurate location of said Underground Facilities. No additional examinations, investigations, explorations, tests, reports, studies or similar information or data in respect of said Underground Facilities are or is deemed necessary by the Contractor in order to perform and furnish the work under this Work Order price, within the Work Order time and in accordance with the other terms and conditions of the Contract Documents.

7.4 Contractor has correlated the results of all such observations, examinations, investigations, explorations, tests, reports and studies with the terms and conditions of the

Contract Documents.

7.5 Contractor has given the City's Contract Administrator written notice of all conflicts, errors or discrepancies that he or she has discovered in the Contract Documents and the written resolution thereof by City or its designee is acceptable to the Contractor.

8.0 Warranty. The Contractor warrants and guarantees to the City that all services and work provided under this Work Order will be in accordance with this Work Order and the other Contract Documents. The Contractor warrants that (a) all materials and parts supplied under this Work Order shall be free from defects for one (1) year from the final completion of all work (unless a longer manufacturer warranty applies); (b) all services and work performed under this Work Order will be free from defects for one (1) year from the final completion of all work and the project shall be fully operational without unreasonable downtime or failures; and (c) that the services and work will conform to the requirements of the Contract Documents. If, at any time prior to the expiration of the one (1) year warranty period, the City discovers any failure or breach of the Contractor's warranties or the Contractor discovers any failure or breach of the Contractor's warranties, the Contractor will, upon written notice from City or of its own accord, at the Contractor's sole cost and expense, promptly correct such failure or breach (which corrective action must include, without limitation, any necessary removal, disassembly, reinstallation, repair, replacement, reassembly, retesting, and/or re-inspection of any part or portion of the work and any other property damaged or affected by such failure, breach, or corrective action). The Contractor will remedy any such failure or breach so, to the extent possible, to avoid unnecessary disruptions to the operations of City or its systems. In the event the Contractor fails to initiate and diligently pursue corrective action within five (5) days of the Contractor's receipt of the City's notice or the Contractor's discovery of the same, the City may undertake such corrective action at the Contractor's expense.

9.0 Authorization

This Work Order is issued pursuant to the Emergency Utility Repairs for Water, Wastewater and Stormwater Contract between the City of Lake Worth Beach and the Contractor, dated July 10, 2020 ("Contract" hereafter) as amended. If there are any conflicts between the terms and conditions of this Work Order and the Contract, the terms and conditions of the Contract shall prevail.

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IN WITNESS WHEREOF, the parties hereto have made and executed this Work Order as of the day and year set forth above.

CITY OF LAKE WORTH BEACH, FLORIDA

By: _____
Betty Resch, Mayor

ATTEST:

By: _____
Melissa Ann Coyne, City Clerk

APPROVED AS TO FORM AND
LEGAL SUFFICIENCY:

APPROVED FOR FINANCIAL
SUFFICIENCY

By: _____
Glen J. Torcivia, City Attorney

By: _____
Yannick Ngendahayo, Financial Services Director

CONTRACTOR:

Johnson-Davis Incorporated

By: _____
(Signature)

[Corporate Seal]

Print Name: William Cryer

Title: Vice President

STATE OF Florida)
COUNTY OF Palm Beach)

The foregoing instrument was acknowledged before me by means of physical presence or online notarization on this 10th day of July, 2023, by WILLIAM CRYER, as the VICE PRESIDENT (title), of **Johnson-Davis Incorporated**, a Company which is authorized to do business in the State of Florida, and who is personally known to me or who has produced _____ as identification, and who did take an oath that he or she is duly authorized to execute the foregoing instrument and bind the CONTRACTOR to the same.

Notary Seal:

(Signature)

Notary Public Signature

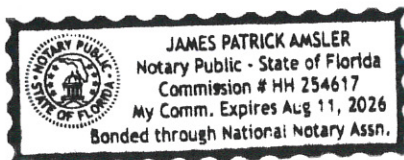


Exhibit 1:

Bid Tabulation
City of Lake Worth Beach
IFB 20-106 Emergency Utility Repairs for Water, Wastewater and Stormwater
5/12/2020 - 3:00 PM E.S.T.

*Items GC-11 through GC-17 & W-117 have been excluded from the calculation as they are representative of costs that are directly reimbursable by the City.

JOHN RICE WAY PHASE II		Johnson Davis			
ITEM	DESCRIPTION	-	UNIT	PRICE	
GENERAL CONDITIONS					
GC-4	NON-Emergency Mobilization/Demobilization Costs for Utility Right of Way repairs	1	LS	\$2,000.00	\$2,000.00
GC-6	Record Drawing (more than 40 LF of Utility Work)	1	LS	\$3,500.00	\$3,500.00
GC-7	Construction Survey	1	LS	\$500.00	\$500.00
GC-10	M.O.T. DOT Roadway	1.5	EA	\$3,000.00	\$4,500.00
GC-11	Bacteriological Testing and Clearance of Water Mains (actual cost reimbursement by City)		ALLOWANCE	N/A	
GC-12	Density Tests (actual cost reimbursement by City)	20	EA	\$25.00	\$500.00
GC-13	Proctor Tests (actual cost reimbursement by City)	2	EA	\$75.00	\$150.00
GC-17	Applicable Permits (actual cost reimbursement by City)	1	LS	\$1,500.00	\$1,500.00
STORM WATER					
GRAVITY STORM SEWER - includes all fittings, appurtenances, dewatering and restoration for a complete installation					
S-8	Furnish & Install 15-Inch RCP Sewer Main	19	LF	\$120.00	\$2,280.00
S-18	Furnish & Install 24-Inch RCP Sewer Main	16	LF	\$140.00	\$2,240.00
MISCELLANEOUS					
S-74	STORM CREW A - Includes a foreman, 3 experienced workers, layout, excavating, installing and backfilling equipment necessary for concrete, PVC, HDPE or metal pipe laying or repair up to 36" diameter. Material costs shall be included with invoice with maximum 15% markup.	16	HR	\$515.00	\$8,240.00
RESTORATION					
R-1	Removal and disposal of 6" thick concrete	42	SF	\$10.00	\$420.00
R-9	Furnish & Install FDOT Valley Gutter - by hand	21	LF	\$100.00	\$2,100.00
R-17	Removal and Disposal of Existing Asphalt Pavement	25	SY	\$10.00	\$250.00
R-22	Furnish and Install 1-1/2" SP-12.5 Asphalt First Course in FDOT/PBC Right of Way	25	SY	\$80.00	\$2,000.00
R-28	8" Limerock/ Crushed Concrete Base, primed	25	SY	\$50.00	\$1,250.00
R-29	12" Compacted Subgrade, 98% T-180	25	SY	\$24.00	\$600.00
R-32	Brick paver remove/replace (1 1/2" sand, 6" limerock base, 12" compacted subgrade)	175	SF	\$40.00	\$7,000.00
WELL POINT SYSTEM AND DE-WATERING					
WP-1	Well Point system up to 50 points complete with pump and jetting equipment, and Monitoring	2	DAY	\$2,800.00	\$5,600.00
SECOND AMENDMENT					
2-1	4' X 6' DIAMETER CONTROL STRUCTURE	1	EA	\$13,500.00	\$13,500.00
2-2	24" CONCRETE COLLAR	2	EA	\$1,750.00	\$3,500.00
2-3	FDOT LANE CLOSURE	5	EA	\$1,500.00	\$7,500.00
2-4	CONNECT TO EXISTING STRUCTURE	1	EA	\$2,500.00	\$2,500.00
2-5	CLEAN EXISTING STORM DRAINAGE	84	LF	\$25.00	\$2,100.00

GRAND TOTAL **\$ 73,730.00**

GENERAL NOTES:

- 1. THESE GENERAL NOTES APPLY TO WORK IN THIS SET OF DRAWINGS.
2. WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, JULY 2022 EDITION, FDOT STANDARD PLANS FY2022-23 OR LATEST EDITION, AND CITY OF LAKE WORTH BEACH STANDARD DETAILS. ALL FDOT INDEXES ARE INCORPORATED AS PLAN REFERENCED HEREIN. CONTRACTOR IS RESPONSIBLE FOR OBTAINING COMPLETE COPIES OF APPLICABLE FDOT INDEXES AND CITY OF LAKE WORTH BEACH STANDARD DETAILS.
3. PRIOR TO COMMENCEMENT OF ANY EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH FLORIDA STATUTE 556- UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT.
4. NO CONSTRUCTION SHALL COMMENCE UNTIL ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN SECURED AND THE CONTRACTOR IS ISSUED A NOTICE TO PROCEED. CONTRACTOR SHALL ABIDE BY ALL PERMIT CONDITIONS.
5. THE CONTRACTOR SHALL MAINTAIN SAFE VEHICULAR ACCESS TO ALL ADJACENT PROPERTY AT ALL TIMES AND SHALL MAINTAIN ACCOMMODATIONS FOR INTERSECTING CROSSING TRAFFIC. NO ROAD OR STREET CROSSING SHALL BE BLOCKED OR UNDULY RESTRICTED.
6. THE CONTRACTOR SHALL PROVIDE SAFE PEDESTRIAN ACCESS AND PROTECTION ADJACENT TO CONSTRUCTION THROUGHOUT THE PROJECT.
7. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE EXISTING LEVEL OF ILLUMINATION THROUGHOUT THE PROJECT LIMITS DURING CONSTRUCTION.
8. TWO (2) LANES OF ROAD MUST BE OPEN TO TRAFFIC DURING AN EVACUATION NOTICE OF HURRICANE OR OTHER CATASTROPHIC EVENT AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVENT AND UNTIL NOTIFIED OTHERWISE BY THE ENGINEER.
9. EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED. ALL DRAINAGE STRUCTURES SHALL BE PROTECTED FROM THE SEDIMENTATION DURING CONSTRUCTION OPERATIONS ACCORDING TO DEP FLORIDA STORMWATER, EROSION, AND SEDIMENTATION INSPECTOR MANUAL, SECTION 4.08 STORM DRAIN INLET PROTECTION.
10. NO EXISTING MATERIAL SHALL BE USED IN NEW CONSTRUCTION UNLESS APPROVED DURING THE SHOP DRAWING REVIEW PROCESS.
11. CONTRACTOR SHALL UTILIZE CONSTRUCTION METHODS AND DEVICES AS INDICATED, AT A MINIMUM, IN FDOT STANDARD INDEXES 100.101, 102, 103, 104, 105 WHERE NECESSARY IN ORDER TO COMPLY WITH ALL STATE AND LOCAL WATER QUALITY STANDARDS.
12. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING INLETS CLEAN OF PAVING MATERIAL, SILT, ROCK, AND DEBRIS DURING THE CONSTRUCTION AT NO ADDITIONAL COST.
13. ALL AREAS DESIGNATED FOR PAVEMENT REMOVAL SHALL BE SAW-CUT AT THE LIMITS OF REMOVAL WHERE EXISTING PAVEMENT IS TO REMAIN.
14. CROSS SLOPES SHALL MATCH EXISTING ADJACENT PAVEMENT UNLESS OTHERWISE SHOWN IN THE DRAWINGS.
15. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHILE REMOVING AND/OR RELOCATING EXISTING SIGNS IN ORDER TO PREVENT ANY UNNECESSARY DAMAGE TO THE SIGNS. SIGNS WHICH ARE DAMAGED BEYOND USE, AS DETERMINED BY THE ENGINEER SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY.
16. PROPOSED SIDEWALK IS TO BE CONNECTED TO EXISTING SIDEWALK WHERE APPLICABLE.
17. CONTRACTOR SHALL BE EXTREMELY CAUTIOUS WHEN WORKING NEAR TREES WHICH ARE TO BE SAVED, WHETHER SHOWN ON THE DRAWINGS OR DESIGNATED IN THE FIELD.
18. THE CONTRACTOR SHALL PROTECT ADJACENT WATER BODIES, WETLANDS AND PROPERTIES FROM SEDIMENTATION OR OTHER POTENTIAL CONSTRUCTION RELATED CAUSES.
19. ALL RECOMMENDATIONS AND REQUIREMENTS OF THE INSPECTION PERSONNEL OTHER THAN THE OWNER'S SHALL BE REPORTED TO THE ENGINEER PRIOR TO IMPLEMENTATION. COMPENSATION WILL NOT BE ALLOWED FOR WORK WHICH IS NOT AUTHORIZED BY THE ENGINEER OR OWNER.
20. ALL WORK SHALL BE OPEN AND SUBJECT TO INSPECTION BY AUTHORIZED PERSONNEL OF THE CITY, INVOLVED UTILITY COMPANIES, PROJECT ENGINEER, AND EACH APPLICABLE REGULATORY AGENCY.
21. 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 THE CITY OF LAKE WORTH BEACH IN WRITING. NO CLAIM FOR EXPENSES INCURRED BY THE CONTRACTOR DUE TO DIFFERING SITE CONDITIONS WILL BE ALLOWED IF THE CONTRACTOR FAILS TO PROVIDE THE REQUIRED WRITTEN NOTIFICATION OF SUCH CONDITIONS FOR REVIEW BY THE ENGINEER AND THE CITY OF LAKE WORTH BEACH.
22. ALL EXISTING CITY OF LAKE WORTH SIGNS WITHIN THE LIMITS OF CONSTRUCTION WHICH ARE TO BE RELOCATED OR REMOVED SHALL BE REMOVED BY THE CONTRACTOR AND STOCKPILE AT A LOCATION DESIGNATED BY THE ENGINEER.
23. ALL VEGETATION, DEBRIS, CONCRETE OR OTHER UNSUITABLE MATERIAL SHALL BE DISPOSED OF LEGALLY OFFSITE BY THE CONTRACTOR AT HIS EXPENSE.
24. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING DETAILED TRAFFIC MAINTENANCE AND CONTROL DRAWINGS ACCORDANCE WITH REGULATORY STANDARDS AND CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS (FDOT INDEX 600 SERIES) AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, REVISIONS 1 AND 2. THESE DRAWINGS SHALL INCLUDE A CLEAR SEQUENCE OF CONSTRUCTION. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER AT THE PRE-CONSTRUCTION CONFERENCE THE MAINTENANCE OF TRAFFIC PLAN FOR APPROVAL BY ALL APPLICABLE REGULATORY AGENCIES.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY TESTING TO ASSURE THAT THE PROPER COMPACTION HAS BEEN ACHIEVED IN THE SUBGRADE, BASE MATERIAL, CONCRETE, ASPHALT, PIPE BASE MATERIAL AND ALL OTHER PERTINENT AREAS THAT HAVE BEEN COMPLETED. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THE TESTS AND COORDINATING WITH THE CITY OF LAKE WORTH REPRESENTATIVE. THE CITY OF LAKE WORTH WILL PAY FOR INITIAL TESTS. THE CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH RETESTING OF FAILED TESTS. THE CONTRACTOR SHALL PROVIDE THE CITY AND THE ENGINEER COPIES OF ALL TEST RESULTS. ALL REPORTS ARE TO BE SIGNED AND SEALED BY A REGISTERED GEOTECHNICAL ENGINEER IN THE STATE OF FLORIDA.
26. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR VERIFYING ALL QUANTITIES, TAKE-OFF MEASUREMENTS, MATERIALS, ETC. DURING THE BID PROCESS. WHEN DISCREPANCIES OCCUR, THE PHYSICAL PLAN TAKES PRECEDENCE. THE ENGINEER, LANDSCAPE ARCHITECT, CITY OR PROJECT MANAGERS ARE NOT TO BE HELD RESPONSIBLE FOR DISCREPANCIES TO THE SPECIFICATIONS OR DRAWINGS. QUANTITIES PROVIDED ARE PROVIDED FOR REFERENCE ONLY; IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL QUANTITIES PRIOR TO BID SUBMITTAL.
27. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES AND CULVERTS MAY EXTEND INTO THE STABILIZED PORTION OF THE ROAD BED AND EXTREME CAUTION WILL BE NECESSARY DURING STABILIZATION OPERATIONS AT THESE LOCATIONS.
28. THE CONTRACTOR IS TO USE EXTREME CAUTION WHEN WORKING IN OR AROUND AREAS OF EXISTING LOOP AND LEAD-IN WIRES; TRANSMISSION LINES, UNDERGROUND UTILITIES AND OVERHEAD UTILITIES.
29. ALL TRENCHING OR EXCAVATION WITHIN THE PAVEMENT AREA SHALL BE PERFORMED PRIOR TO PLACEMENT OF BASE AND ASPHALT.
30. THE CONTRACTOR SHALL NOTIFY THE PALM BEACH COUNTY TRAFFIC DIVISION, PHONE (561) 684-4030, TWO WORKING DAYS PRIOR TO ANY MODIFICATION OF AN EXISTING TRAFFIC SIGNAL SYSTEM. THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR THE MAINTENANCE OF THE EXISTING TRAFFIC SIGNAL(S) WITHIN THE PROJECT LIMITS.

GENERAL NOTES (CONTINUED):

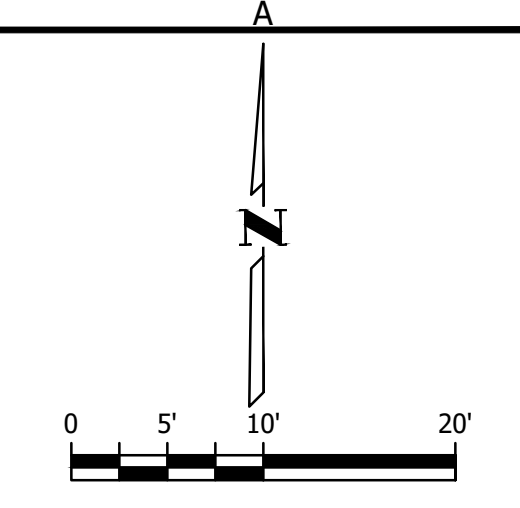
- 32. THE CONTRACTOR SHALL COORDINATE WITH CITY OF LAKE WORTH AND PALM BEACH COUNTY TRAFFIC DIVISION PRIOR TO INSTALLATION OF LOOP ASSEMBLIES AND THEIR CONNECTION TO CONTROLLERS AT SIGNALIZED INTERSECTIONS WITHIN THE PROJECT LIMITS. INSTALLATION OF LOOP ASSEMBLIES SHALL BE PERFORMED AFTER MILLING AND RESURFACING.
UTILITIES:
1. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE DRAWINGS (INCLUDING THOSE DESIGNATED Vh) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED. HOWEVER, NO ASSURANCES ARE MADE BY THE ENGINEER OR CITY AS TO THEIR ACCURACY. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES IN THE AREA OF WORK BEFORE BEGINNING CONSTRUCTION.
2. UPON RECEIPT OF NOTICE OF AWARD, THE CONTRACTOR SHALL ATTEND A PRE CONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, ALL AFFECTED UTILITY OWNERS, THE CITY, AND THE ENGINEER.
3. PRIOR TO EXCAVATION, THE CONTRACTOR SHALL CONTACT SUNSHINE 811 AND THE UTILITY OWNER AND REQUEST UTILITY LOCATIONS. A CONTRACTOR'S REPRESENTATIVE MUST BE PRESENT WHEN UTILITY COMPANIES LOCATE THEIR FACILITIES.
4. UTILITY COMPANIES:
BRIAN SHIELDS
CITY OF LAKE WORTH BEACH WATER AND SEWER UTILITY
(561) 586-1610
JEAN ST. SIMON
CITY OF LAKE WORTH BEACH ELECTRIC UTILITY
(561) 722-9734
JOHN LETSCH
PALM BEACH COUNTY TRAFFIC OPERATIONS
(561) 233-3923
TONY SPRINGSTEEL
COMCAST - PALM BEACH COUNTY
(772) 321-3425
BRAD COLLINS
FLORIDA PUBLIC UTILITIES COMPANY
(772) 252-3308
GARTH BEDWARD
AT&T
(561) 540-9263
KELLY KLINFELTER
CROWN CASTLE FIBER
(724) 743-6085
WINDSTREAM COMMUNICATIONS
(800) 289-1901
5. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, ELEVATION, AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY IF "OTHER" UTILITIES (NOT SHOWN IN THE DRAWINGS) EXIST WITHIN THE AREA OF CONSTRUCTION. SHOULD THERE BE UTILITY CONFLICTS, THE CONTRACTOR SHALL INFORM THE ENGINEER AND NOTIFY THE RESPECTIVE UTILITY OWNER(S) TO RESOLVE UTILITY CONFLICTS AND PERFORM UTILITY ADJUSTMENTS, AS REQUIRED.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES FOR WHICH IT FAILS TO REQUEST LOCATIONS FROM THE UTILITY OWNER. THE CONTRACTOR IS ALSO RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES WHICH ARE PROPERLY LOCATED.
8. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIALLY DIFFERENT FROM THAT SHOWN ON THE DRAWINGS; THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
9. THE LOCATIONS OF EXISTING UTILITIES AND STORM DRAINAGE SHOWN ON THE DRAWINGS HAVE BEEN DETERMINED FROM THE BEST 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 THE FIELD LOCATIONS AND FOR ANY RELOCATIONS OF THE VARIOUS EXISTING UTILITIES WITH THE UTILITY OWNERS, WHICH SHALL BE DONE IN A TIMELY MANNER TO MINIMIZE IMPACT ON THE CONSTRUCTION SCHEDULE. ANY DELAY CAUSED BY THE CONTRACTOR BY THE RELOCATION OF UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.

CONSTRUCTION SAFETY:

- 1. ALL CONSTRUCTION SHALL BE PERFORMED IN A SAFE MANNER, SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
2. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLIANCE WITH THE STATE OF FLORIDA TRENCH SAFETY ACT.
3. WHERE EXCAVATIONS TO A DEPTH IN EXCESS OF FIVE FEET (5') ARE REQUIRED, THE CONTRACTOR SHALL INCLUDE THE FOLLOWING IN THE BID:
3.1. REFERENCE TO THE TRENCH SAFETY STANDARDS THAT WILL BE IN EFFECT DURING THE PERIOD OF CONSTRUCTION OF THE PROJECT.
3.2. WRITTEN ASSURANCES BY THE CONTRACTOR PERFORMING THE TRENCH EXCAVATION THAT SUCH CONTRACTOR WILL COMPLY WITH THE FLORIDA TRENCH SAFETY ACT.
3.3. A SEPARATE ITEM IDENTIFYING THE COST OF COMPLIANCE WITH THE APPLICABLE TRENCH SAFETY STANDARDS.

RIGHT-OF-WAY:

- 1. ALL WORK SHALL BE COMPLETED FROM AND WITHIN EXISTING RIGHT OF WAY.



EXISTING CONDITIONS LEGEND table with symbols for Boundary / R.O.W., Easement / Setback, Building Face, Contour, Water Line, Wastewater Line, Force Main, Storm Drain Line, Overhead Utility, Underground Utility, Gas Line, Fence, Retaining Wall, Benchmark, Mail Box, Sign, Water Meter Vault, Water Valve, Water Manhole, Wastewater Manhole, Utility Pole, Clean-Out, Guy Wire, Elec Manhole, Elec Transformer Pad, Air Conditioner Unit, Storm Drain Inlet, Storm Drain Manhole.

EROSION CONTROL LEGEND table with symbols for Boundary / R.O.W., Existing Contour, Proposed Contour, Tree Protection, Mulch Sock, Silt Fence, Limits of Construction, Rock Berm, Inlet Filter, Parking, Storage, Spoils and Staging Area, Stabilized Construction Entrance, Concrete Washout, Tree (to remain), Tree (to remove).

PAVING, GRADING, AND DRAINAGE LEGEND table with symbols for Boundary / R.O.W., Easement / Setback, Existing Contour, Proposed Contour, Overhead Utility, Underground Utility, Water Line, Wastewater Line, Storm Drainage Line, Gas Line, Direction of Flow, Retaining/Screen Wall, Water Meter Vault, Water Valve, Wastewater Manhole, Utility Pole, Clean-Out, Guy Wire, Elec Transformer Pad, Storm Drain Inlet, Storm Drain Manhole, Tree w/ Tag (to remain).



Know what's below. Call before you dig.

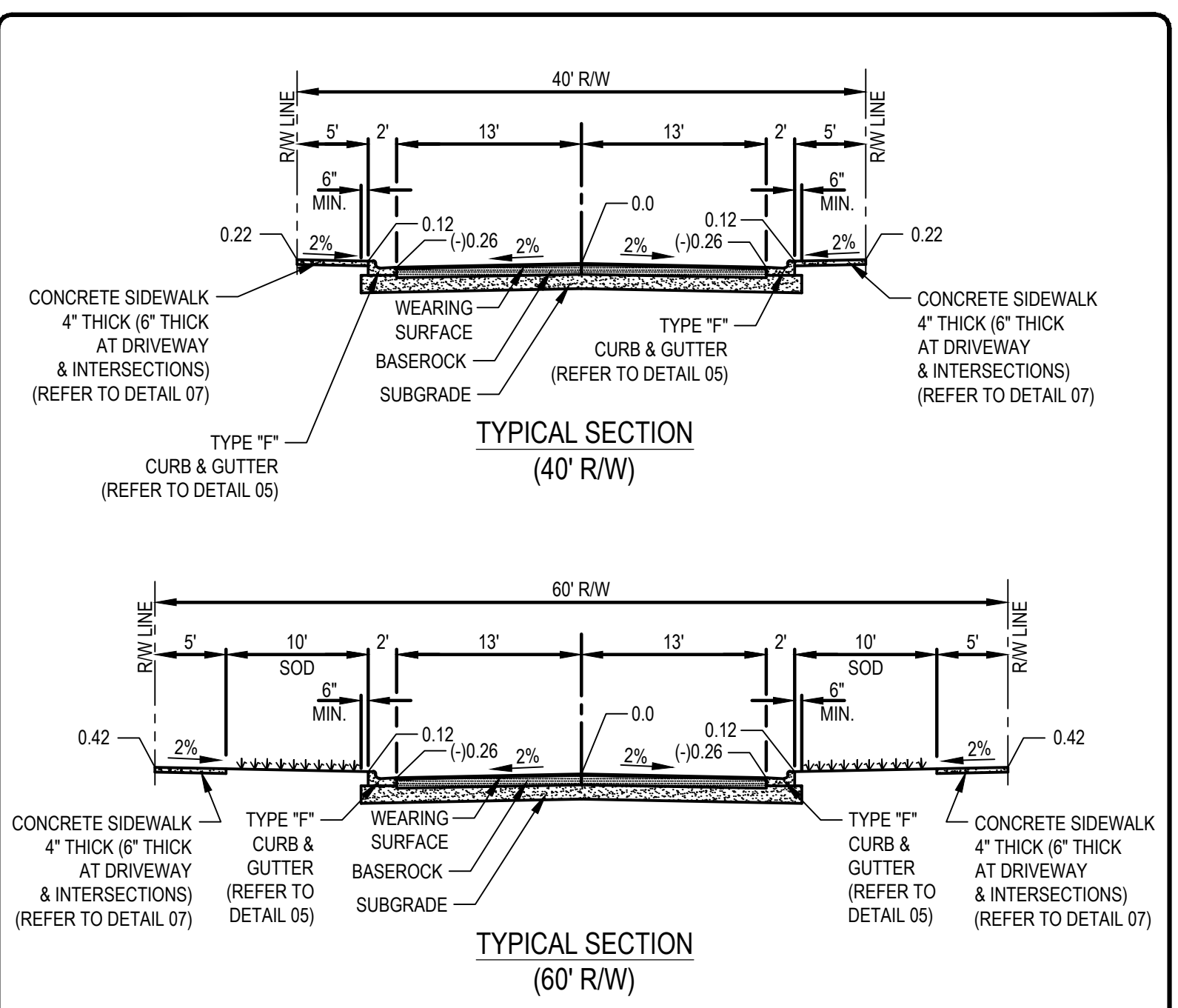
Revision table with columns for No., Date, and Description.

Professional Engineer's Seal for Stephen C. Cherry, PE, License No. 83268, State of Florida. Includes WGI logo and contact information.

ENGINEER'S SEAL
STEPHEN C. CHERRY, PE
PE LIC. NO. 83268

JOHN RICE WAY PHASE II
LAKE WORTH BEACH, PALM BEACH COUNTY, FL
GENERAL NOTES

SWMTL 3/27/2024 4:59 PM
ROUTED BY: WASON SHIRT
DRAWING: P:\3000\24\2401\John Rice Way\Drawings\Civil\03-General Notes.dwg



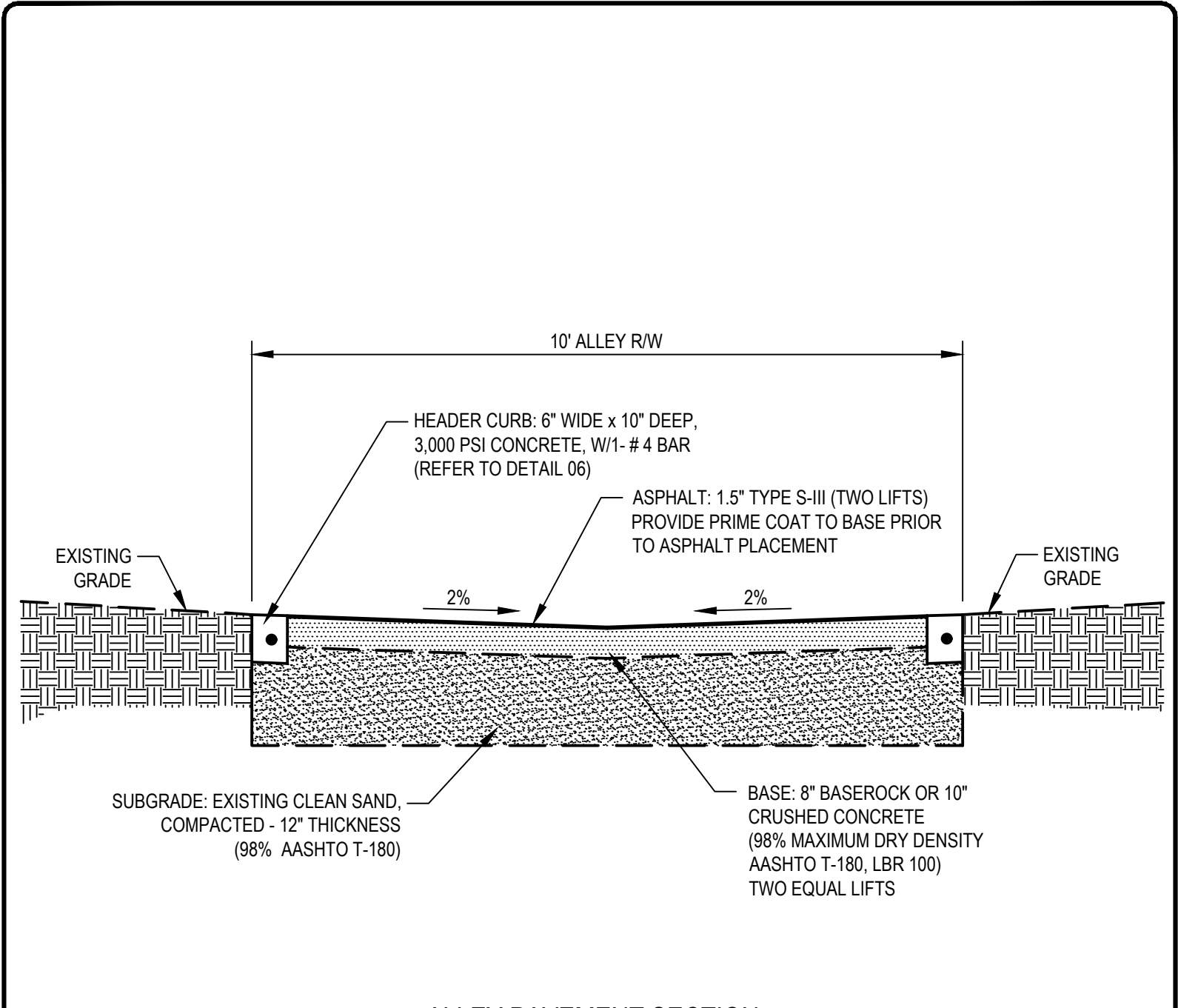
PAVEMENT SPECIFICATIONS	
WEARING SURFACE	1 1/2" TYPE S-III (TWO 3/4" LIFTS)
BASE	8" BASEROCK (LBR 100) COMPACTED TO 98% MAX. DENSITY PER AASHTO T-180 (2 EQUAL LIFTS) OR 10" CRUSHED CONC. PRIME & TACK COAT PER FDOT SECTION 300.
SUBGRADE	12" STABILIZED SUBGRADE COMPACTED TO 98% MAX. DENSITY PER AASHTO T-180.

VARIAION FROM MATERIAL SPECIFICATIONS WILL BE CONSIDERED ON A CASE BY CASE BASIS BY THE CITY ENGINEER.

CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT

TYPICAL RIGHT-OF-WAY SECTIONS

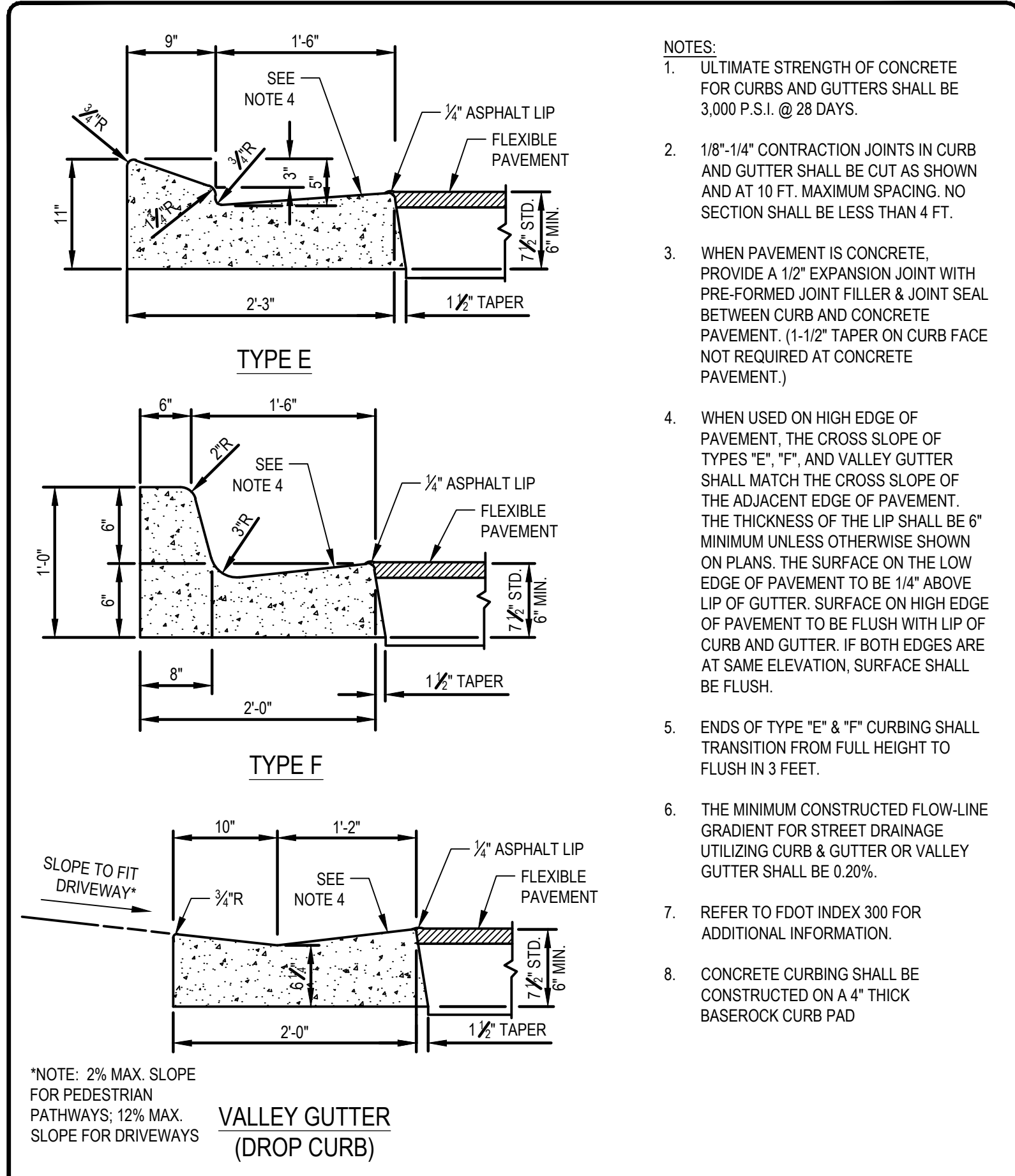
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CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT

ALLEY PAVEMENT SECTION

03

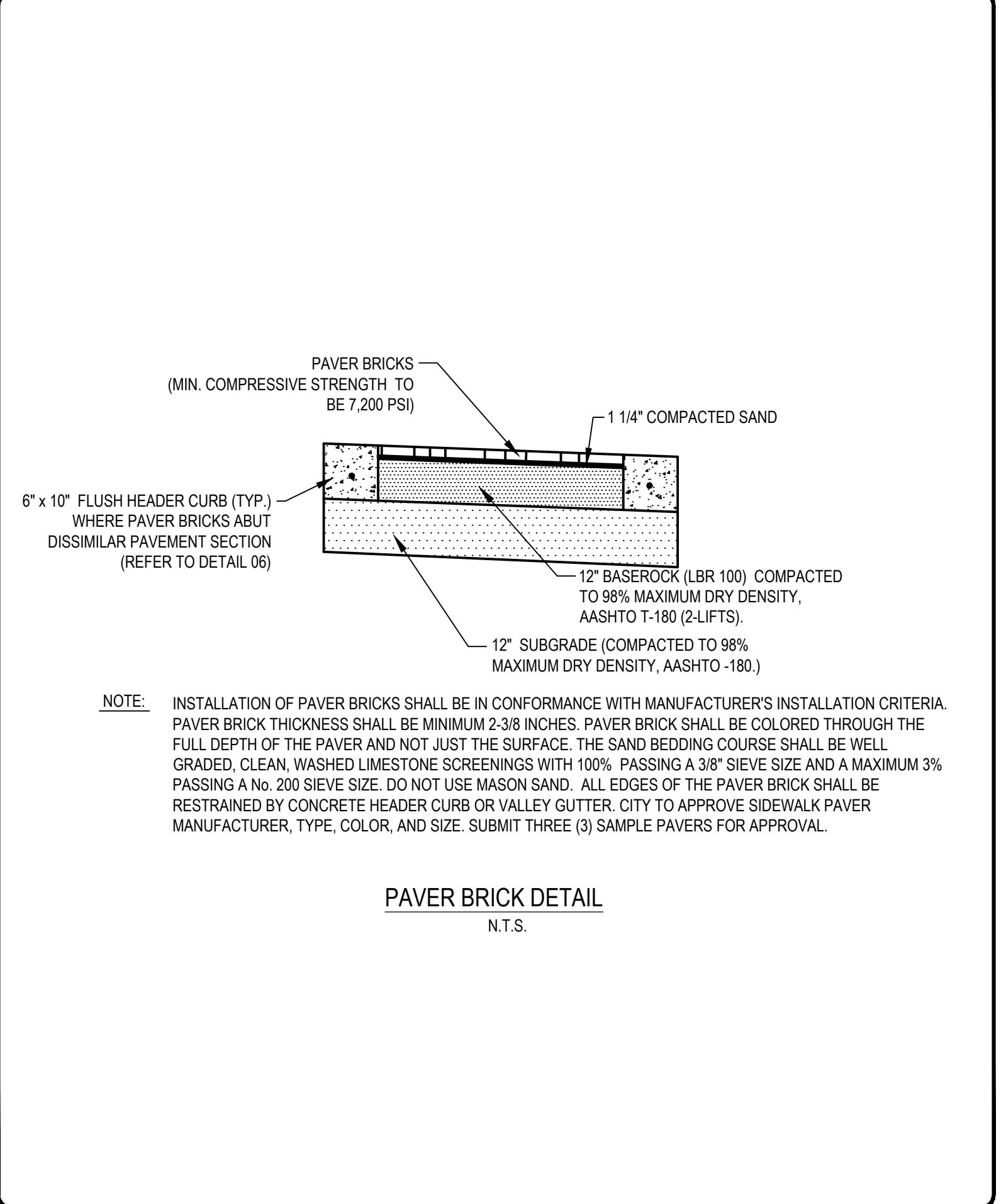


- NOTES:
- ULTIMATE STRENGTH OF CONCRETE FOR CURBS AND GUTTERS SHALL BE 3,000 P.S.I. @ 28 DAYS.
 - 1/8"-1/4" CONTRACTION JOINTS IN CURB AND GUTTER SHALL BE CUT AS SHOWN AND AT 10 FT. MAXIMUM SPACING. NO SECTION SHALL BE LESS THAN 4 FT.
 - WHEN PAVEMENT IS CONCRETE, PROVIDE A 1/2" EXPANSION JOINT WITH PRE-FORMED JOINT FILLER & JOINT SEAL BETWEEN CURB AND CONCRETE PAVEMENT. (1-1/2" TAPER ON CURB FACE NOT REQUIRED AT CONCRETE PAVEMENT.)
 - WHEN USED ON HIGH EDGE OF PAVEMENT, THE CROSS SLOPE OF TYPES "E", "F", AND VALLEY GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT EDGE OF PAVEMENT. THE THICKNESS OF THE LIP SHALL BE 6" MINIMUM UNLESS OTHERWISE SHOWN ON PLANS. THE SURFACE ON THE LOW EDGE OF PAVEMENT TO BE 1/4" ABOVE LIP OF GUTTER. SURFACE ON HIGH EDGE OF PAVEMENT TO BE FLUSH WITH LIP OF CURB AND GUTTER. IF BOTH EDGES ARE AT SAME ELEVATION, SURFACE SHALL BE FLUSH.
 - ENDS OF TYPE "E" & "F" CURBING SHALL TRANSITION FROM FULL HEIGHT TO FLUSH IN 3 FEET.
 - THE MINIMUM CONSTRUCTED FLOW-LINE GRADIENT FOR STREET DRAINAGE UTILIZING CURB & GUTTER OR VALLEY GUTTER SHALL BE 0.20%.
 - REFER TO FDOT INDEX 300 FOR ADDITIONAL INFORMATION.
 - CONCRETE CURBING SHALL BE CONSTRUCTED ON A 4" THICK BASEROCK CURB PAD

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CONCRETE CURB AND GUTTER

05

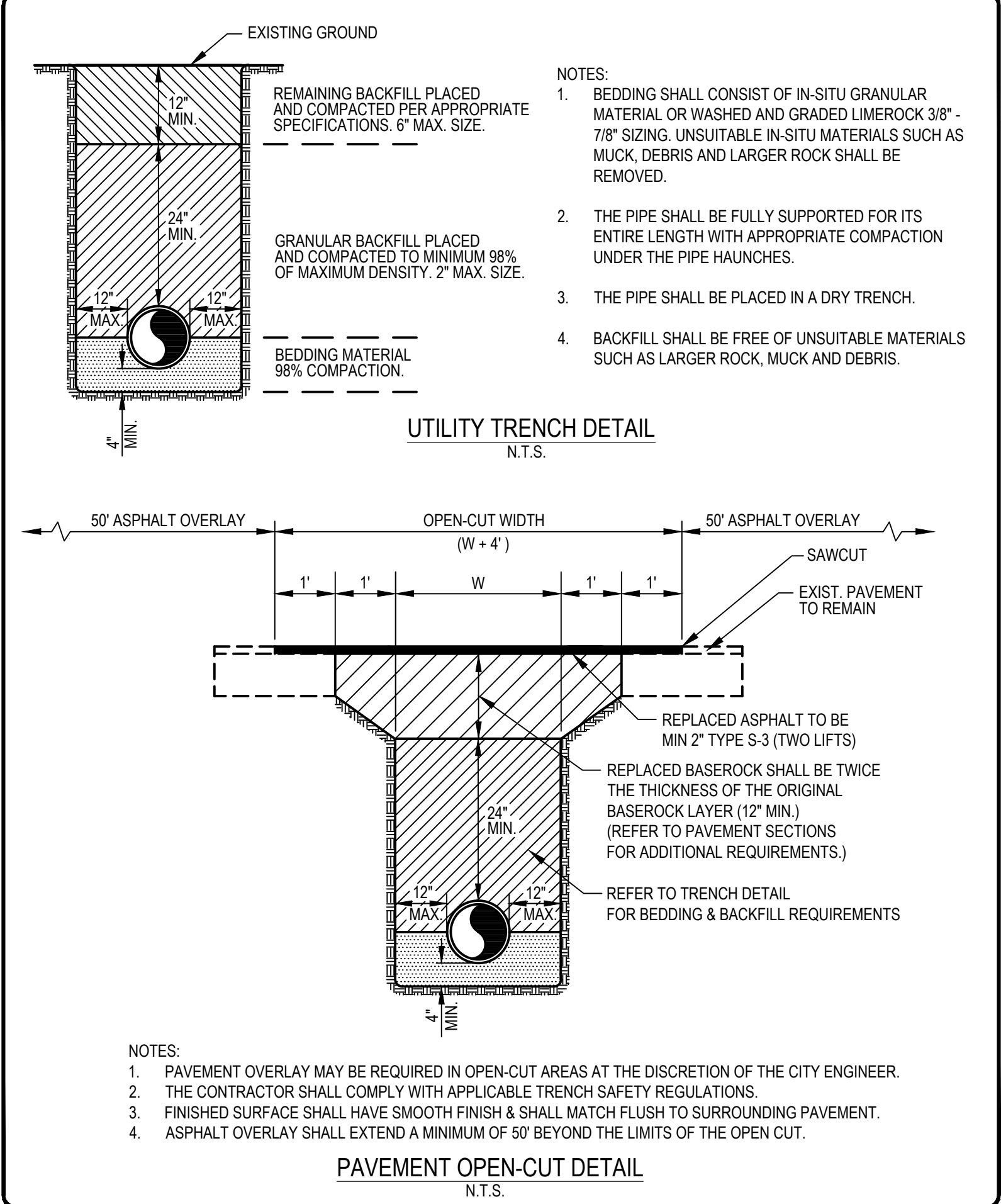


NOTE: INSTALLATION OF PAVER BRICKS SHALL BE IN CONFORMANCE WITH MANUFACTURER'S INSTALLATION CRITERIA. PAVER BRICK THICKNESS SHALL BE MINIMUM 2-3/8 INCHES. PAVER BRICK SHALL BE COLORED THROUGH THE FULL DEPTH OF THE PAVER AND NOT JUST THE SURFACE. THE SAND BEDDING COURSE SHALL BE WELL GRADED, CLEAN, WASHED LIMESTONE SCREENINGS WITH 100% PASSING A 3/8" SIEVE SIZE AND A MAXIMUM 3% PASSING A No. 200 SIEVE SIZE. DO NOT USE MASON SAND. ALL EDGES OF THE PAVER BRICK SHALL BE RESTRAINED BY CONCRETE HEADER CURB OR VALLEY GUTTER. CITY TO APPROVE SIDEWALK PAVER MANUFACTURER, TYPE, COLOR, AND SIZE. SUBMIT THREE (3) SAMPLE PAVERS FOR APPROVAL.

CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT

PAVER BRICK

17



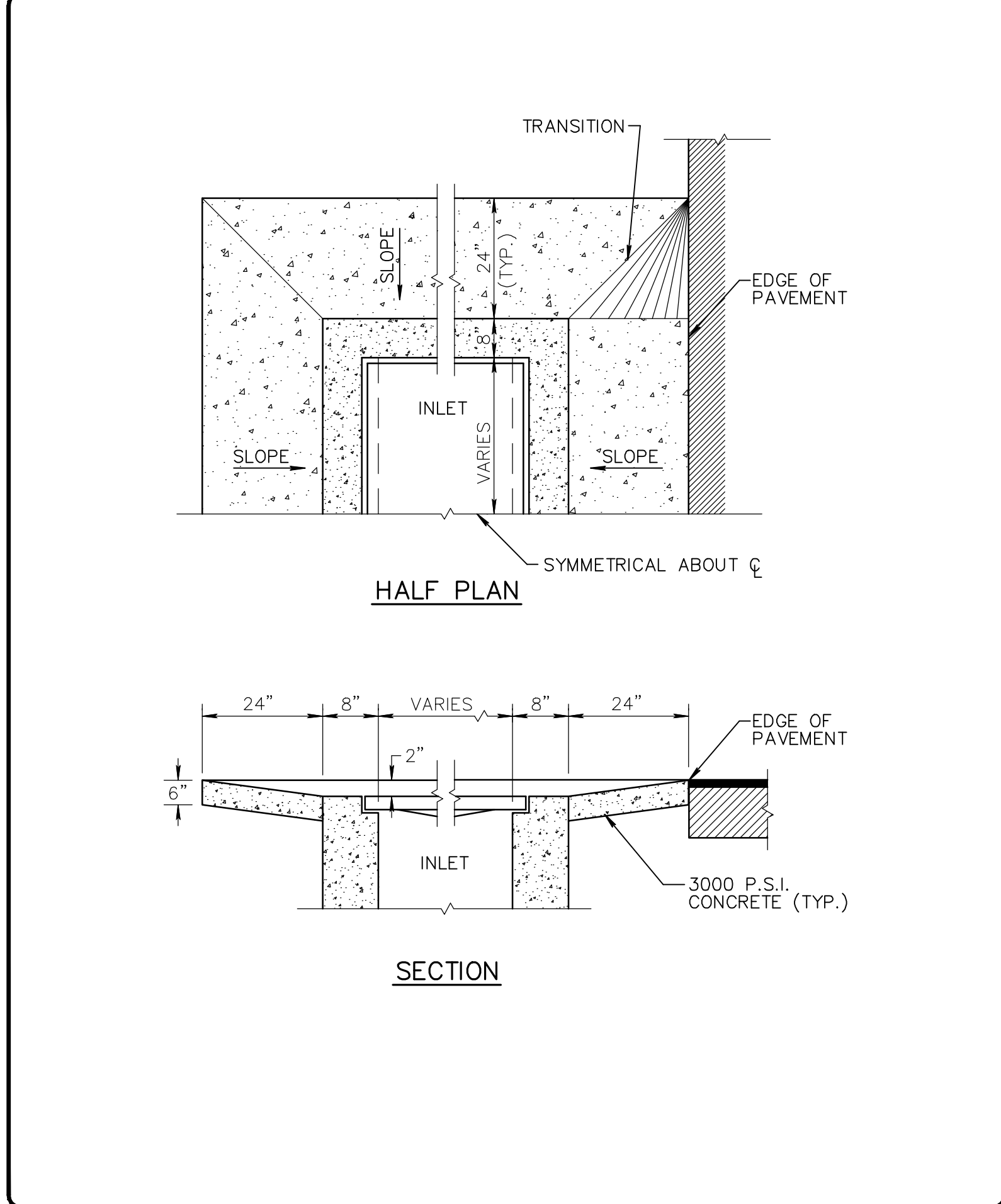
- NOTES:
- BEDDING SHALL CONSIST OF IN-SITU GRANULAR MATERIAL OR WASHED AND GRADED LIMEROCK 3/8"-7/8" SIZING. UNSUITABLE IN-SITU MATERIALS SUCH AS MUCK, DEBRIS AND LARGER ROCK SHALL BE REMOVED.
 - THE PIPE SHALL BE FULLY SUPPORTED FOR ITS ENTIRE LENGTH WITH APPROPRIATE COMPACTION UNDER THE PIPE HAUNCHES.
 - THE PIPE SHALL BE PLACED IN A DRY TRENCH.
 - BACKFILL SHALL BE FREE OF UNSUITABLE MATERIALS SUCH AS LARGER ROCK, MUCK AND DEBRIS.

- NOTES:
- PAVEMENT OVERLAY MAY BE REQUIRED IN OPEN-CUT AREAS AT THE DISCRETION OF THE CITY ENGINEER.
 - THE CONTRACTOR SHALL COMPLY WITH APPLICABLE TRENCH SAFETY REGULATIONS.
 - FINISHED SURFACE SHALL HAVE SMOOTH FINISH & SHALL MATCH FLUSH TO SURROUNDING PAVEMENT.
 - ASPHALT OVERLAY SHALL EXTEND A MINIMUM OF 50' BEYOND THE LIMITS OF THE OPEN CUT.

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UTILITY TRENCH AND PAVEMENT OPEN-CUT

21



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INLET APRON DETAIL

24



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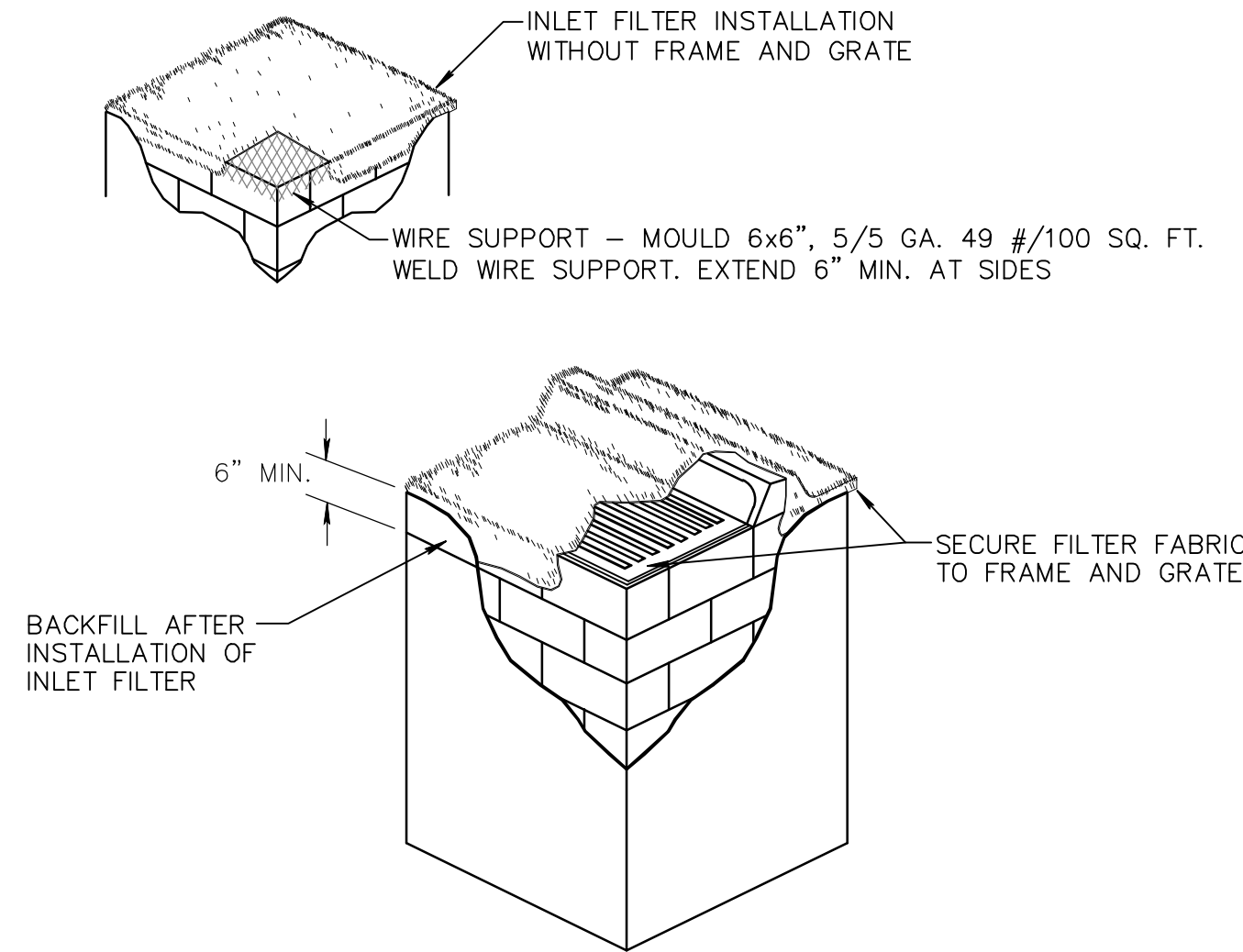
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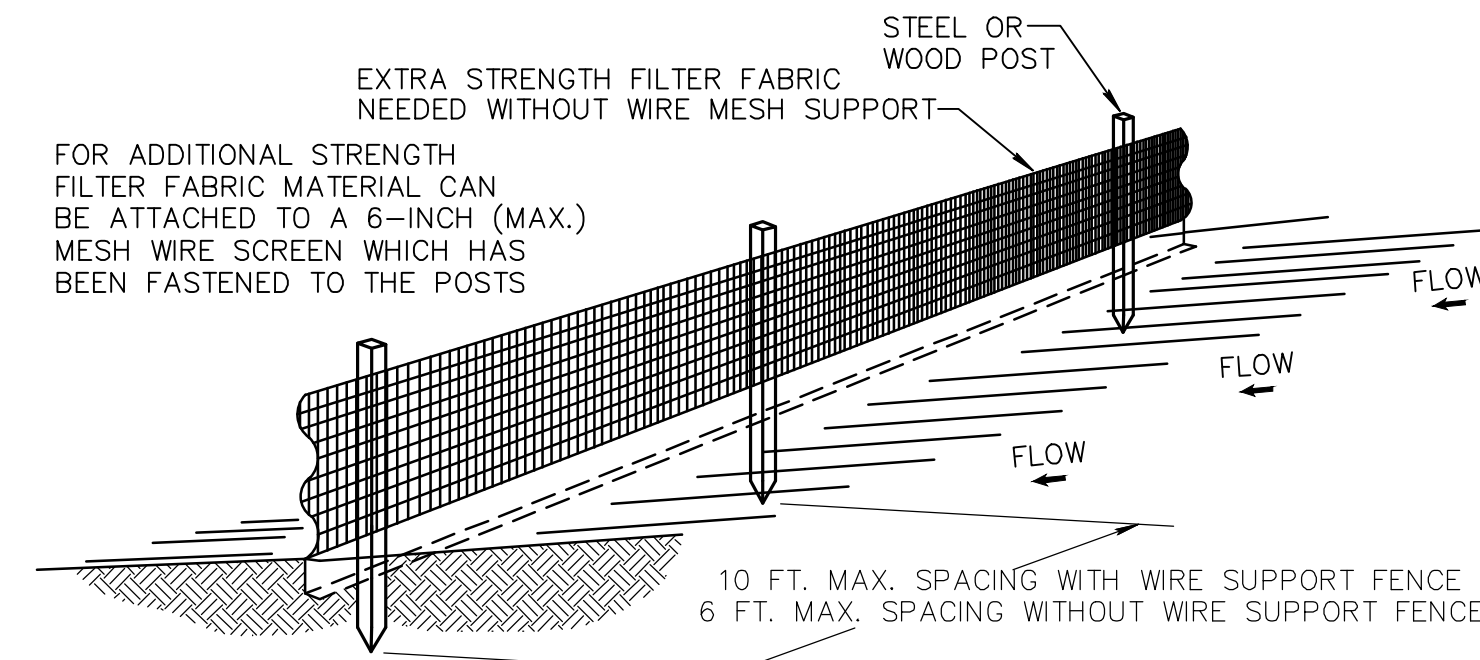
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CITY OF LAKE WORTH BEACH DETAILS 1

SHEET
C501
8 OF 12
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1. THE INTENT OF EROSION CONTROL MEASURES INDICATED GRAPHICALLY ON PLANS IS TO PROVIDE A BARRIER TO CONTAIN SILT AND SEDIMENT ON THE PROJECT SITE. THIS REPRESENTATION IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE TEST OF EROSION CONTROL EFFECTIVENESS IS NOT TO BE DETERMINED BY ADHERENCE TO THE REPRESENT SET FORTH ON THE DRAWINGS AND SPECIFICATIONS, BUT BY MEETING THE REGULATIONS SET FORTH BY THE AUTHORITY HAVING JURISDICTION OVER WATER QUALITY CONTROL AND OTHER SEDIMENTATION RESTRICTION REQUIREMENTS IN THE REGION.
2. APPROVED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY CLEARING, GRADING, EXCAVATION, FILLING, OR OTHER LAND DISTURBANCE ACTIVITIES, EXCEPT THOSE OPERATIONS NEEDED TO INSTALL SUCH MEASURES.
3. INSPECTION OF ALL EROSION CONTROL MEASURES SHALL BE CONDUCTED WEEKLY, OR AFTER EACH RAINFALL EVENT, REPAIR, AND/OR REPLACEMENT OF SUCH MEASURES SHALL BE MADE PROMPTLY, AS NEEDED.
4. KEEP DUST WITHIN TOLERABLE LIMITS BY SPRINKLING OR OTHER ACCEPTABLE MEANS.
5. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED IF DEEMED NECESSARY BY ONSITE INSPECTION.
6. FAILURE TO PROPERLY INSTALL AND MAINTAIN EROSION CONTROL PRACTICES SHALL RESULT IN CONSTRUCTION BEING HALTED.
7. DRAINAGE INLETS SHALL BE PROTECTED BY FILTER AND GRADED ROCK AS PER INLET PROTECTION DETAIL.
8. ANY ACCESS ROUTES TO SITE SHALL BE BASED WITH CRUSHED STONE, WHERE PRACTICAL.
9. EROSION CONTROL MEASURES ARE TO BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
10. WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED.
11. ALL WORK IS TO BE IN COMPLIANCE WITH THE RULES AND REGULATIONS SET FORTH BY THE STATE OF FLORIDA, DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THE CITY OF DELRAY BEACH.
12. DISCHARGE FROM DEWATERING OPERATIONS SHALL BE RETAINED ONSITE IN A CONTAINMENT AREA.



- NOTES:**
1. CONTRACTOR IS TO CLEAN INLET FILTER AFTER EVERY STORM.
 2. CONTRACTOR TO REMOVE FABRIC JUST PRIOR TO PAVING.
- A SEDIMENT TRAP WILL BE EXCAVATED BEHIND THE CURB AT THE INLET. THE BASIN SHALL BE AT LEAST 12 TO 14 INCHES IN DEPTH, APPROXIMATELY 36 INCHES IN WIDTH, AND APPROXIMATELY 7 TO 10 FEET IN LENGTH PARALLEL TO THE CURB.
- STORM WATER WILL REACH THE SEDIMENT TRAP VIA CURB CUTS ADJACENT TO EACH SIDE OF THE INLET STRUCTURE. THESE OPENINGS SHALL BE AT LEAST 12 INCHES IN LENGTH. STORM WATER MAY ALSO REACH THE BASIN VIA OVERLAND FLOW LAND AREA BEHIND THE CURB. THE CURB CUTS SHALL BE REPAIRED WHEN THE SEDIMENT TRAP IS REMOVED.



- NOTES:**
1. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES (90 CM).
 2. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS.
 3. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET (3 M) APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12 INCHES (30 CM). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET (1.8 M).
 4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES (10 CM) WIDE AND 4 INCHES (10 CM) DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
 5. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH (25 MM) LONG, THE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES (5 CM) AND SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGINAL GROUND SURFACE.
 6. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES (20 CM) OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGINAL GROUND SURFACE.
 7. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
 8. ALL PROJECTS REQUIRE SUBMITTAL OF POLLUTION PREVENTION PLAN (PPP).
 9. ALL PROJECTS 1 AC. OR MORE MUST SUBMIT NOTICE OF INTENT (NOI) TO FDEP.

CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT

EROSION CONTROL NOTES DETAIL

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CITY OF LAKE WORTH PUBLIC SERVICES DEPARTMENT

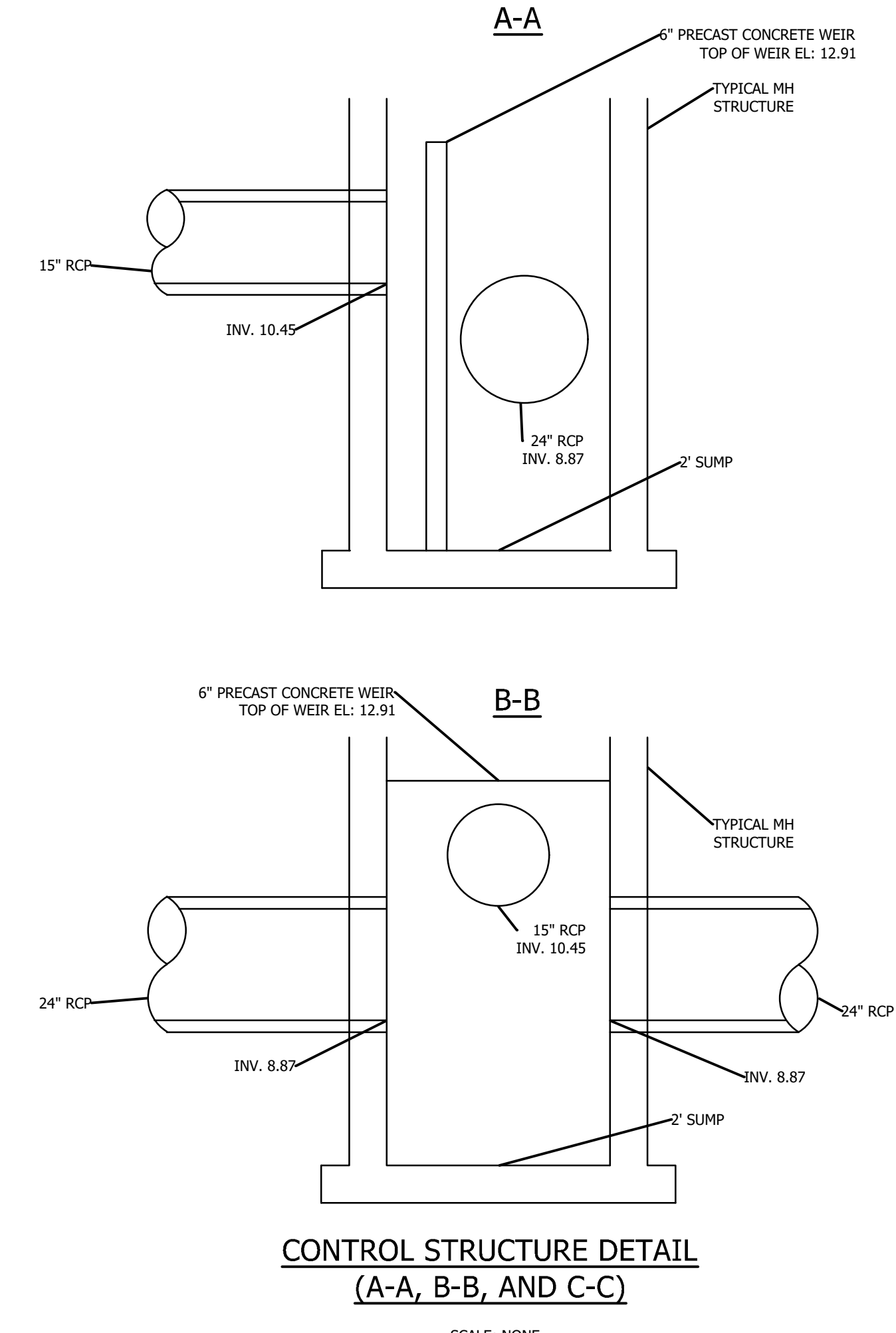
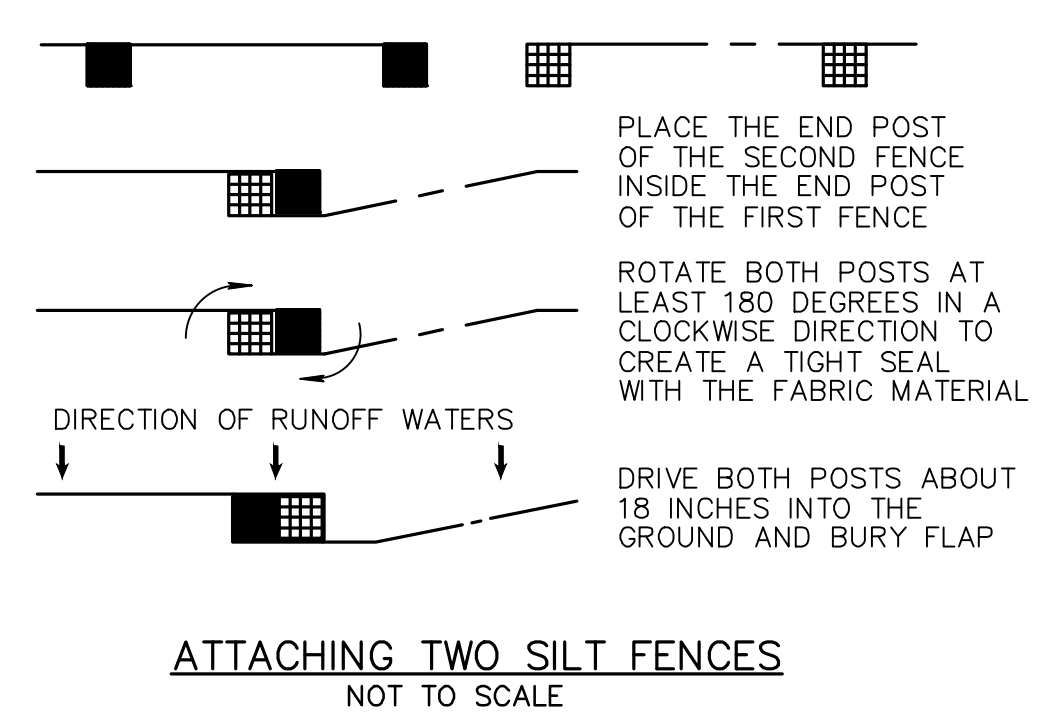
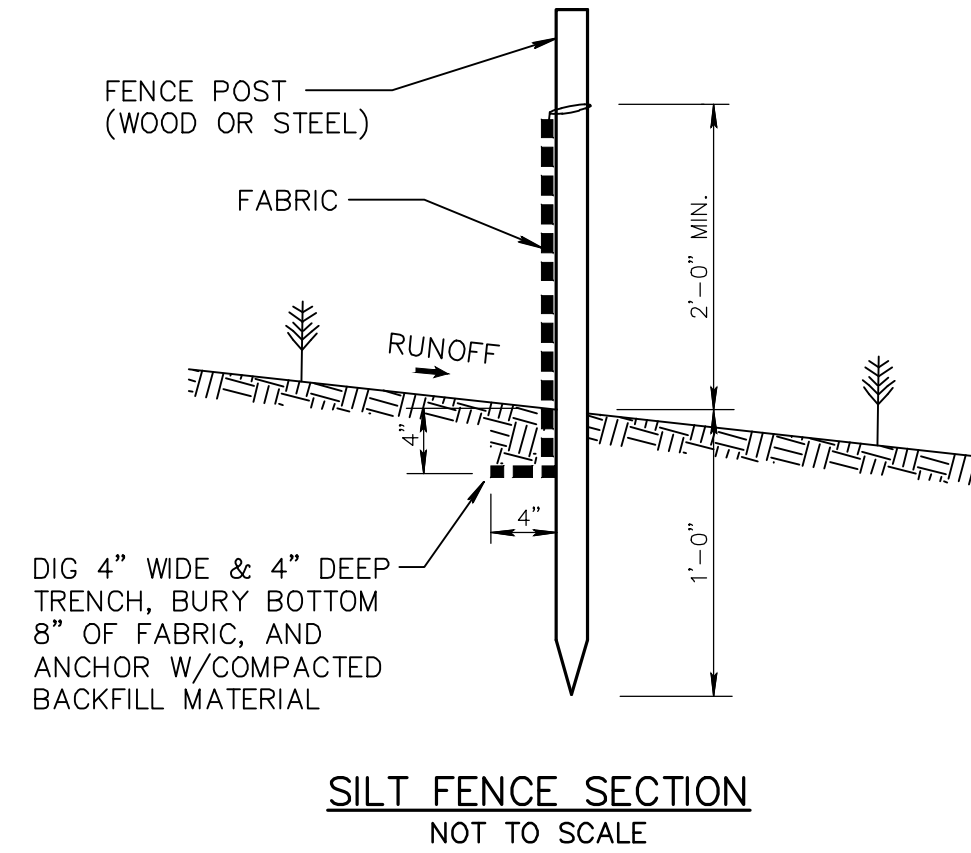
INLET FILTER DETAIL

26

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SILT FENCE INSTALLATION DETAIL

27



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SILT FENCE INSTALLATION DETAIL

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PE LIC. NO. 83268

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CITY OF LAKE WORTH BEACH DETAILS 2



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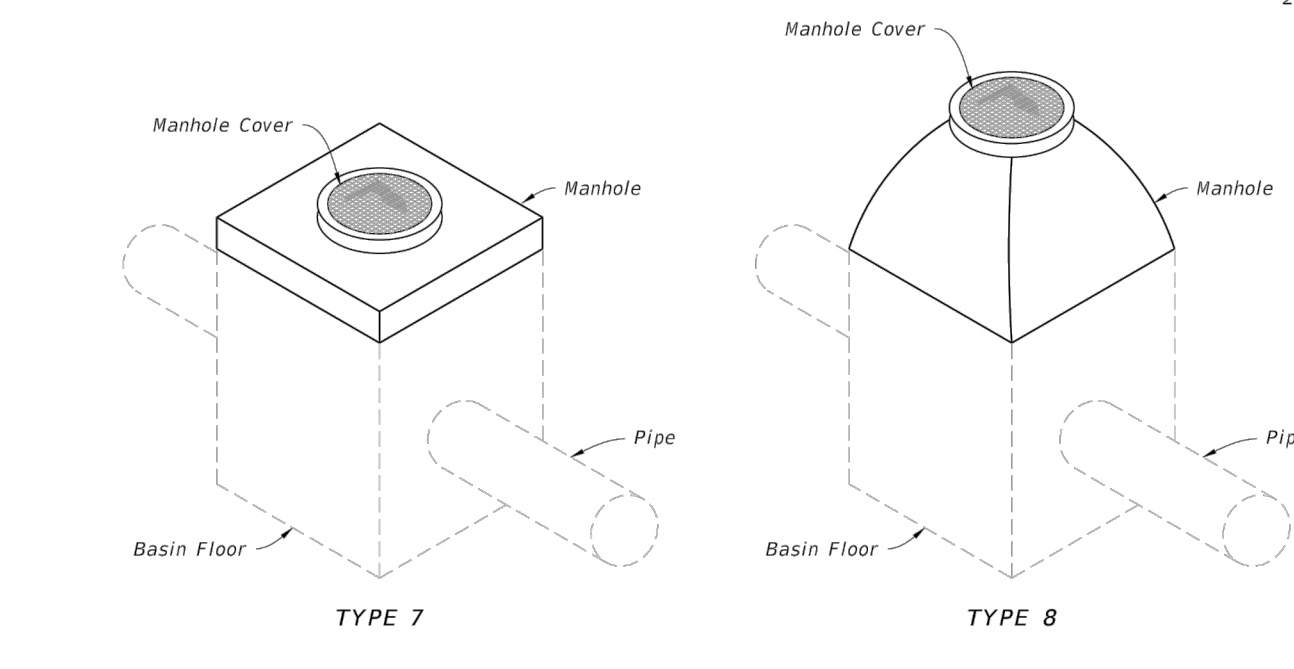
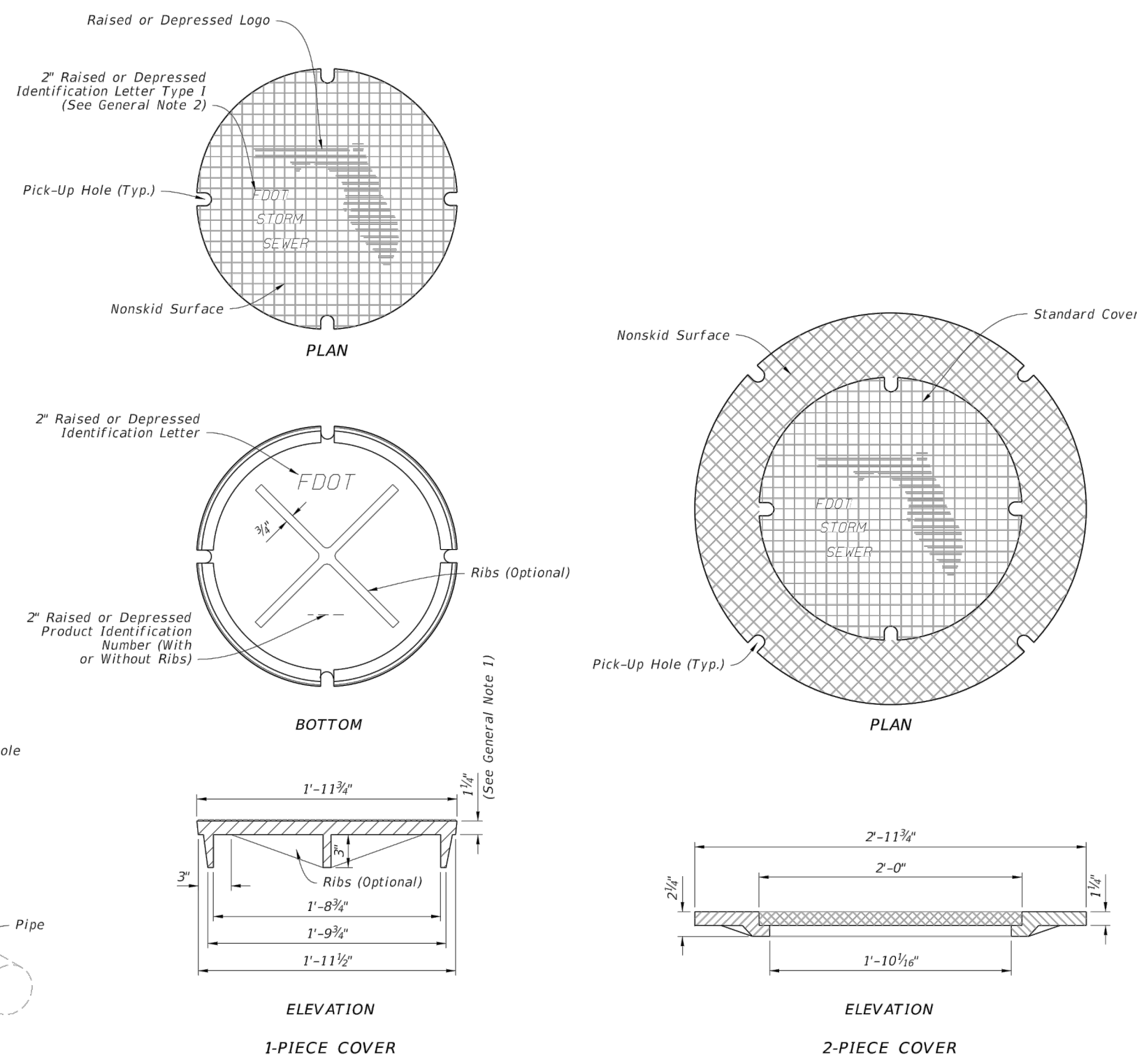
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GENERAL NOTES:

- Use a 1-piece cover, unless the 2-piece cover is called for in the Plans, except at inlets and manholes with sump bottoms. Use the 2-piece cover when the sump depth exceeds 2', unless otherwise noted.
- Include "Adjustable" on the cover for Type I manhole adjustable frames.
- For square or rectangular precast drainage structures, use either deformed or smooth WWR meeting the requirements of Specification 931. WWR must be continuous around the box and lapped in accordance with Option 1 or 3 as shown in the Wall Reinforcing Splice Details.
- Lap splice horizontal steel in the walls of rectangular structures in accordance with Option 1, 2 or 3 as shown in the Wall Reinforcing Splice Details.
- Welding of splices and laps is permitted. Use AASHTO M259 requirements and restrictions on welds.
- Rebar straight end embedment of peripheral reinforcement may be used in lieu of ACI standard hooks for top and bottom slabs, except when hooks are specifically called for in the Plans.
- Precast opening for pipe must be the pipe OD plus 6" (+2" tolerance). Use mortar to seal the pipe into the opening of such a mix that shrinkage will not cause leakage into or out of the structure. Dry-pack mortar may be used to seal openings less than 2 1/2" wide.

TABLE OF CONTENTS:

Sheet	Description
1	General Notes, Contents, Manhole Top Overview, and Manhole Covers
2	Manhole Frames and Manhole Tops
3	Inlet Locking Grates, Subgrade and Base Temporary Drains, and Pipe to Structure Filter Fabric Wrap
4	Drainage Structure Inert, Sump Bottom, Wall Reinforcing Splice Details, and Typical Slab to Wall Details
5	Precast Option and Equivalent Reinforcement Substitution
6	Construction Joints and Minimum Box Riser Segment Dimensions
7	Skewed Pipe in Rectangular Structures
8	Miscellaneous Pipe Connection Details

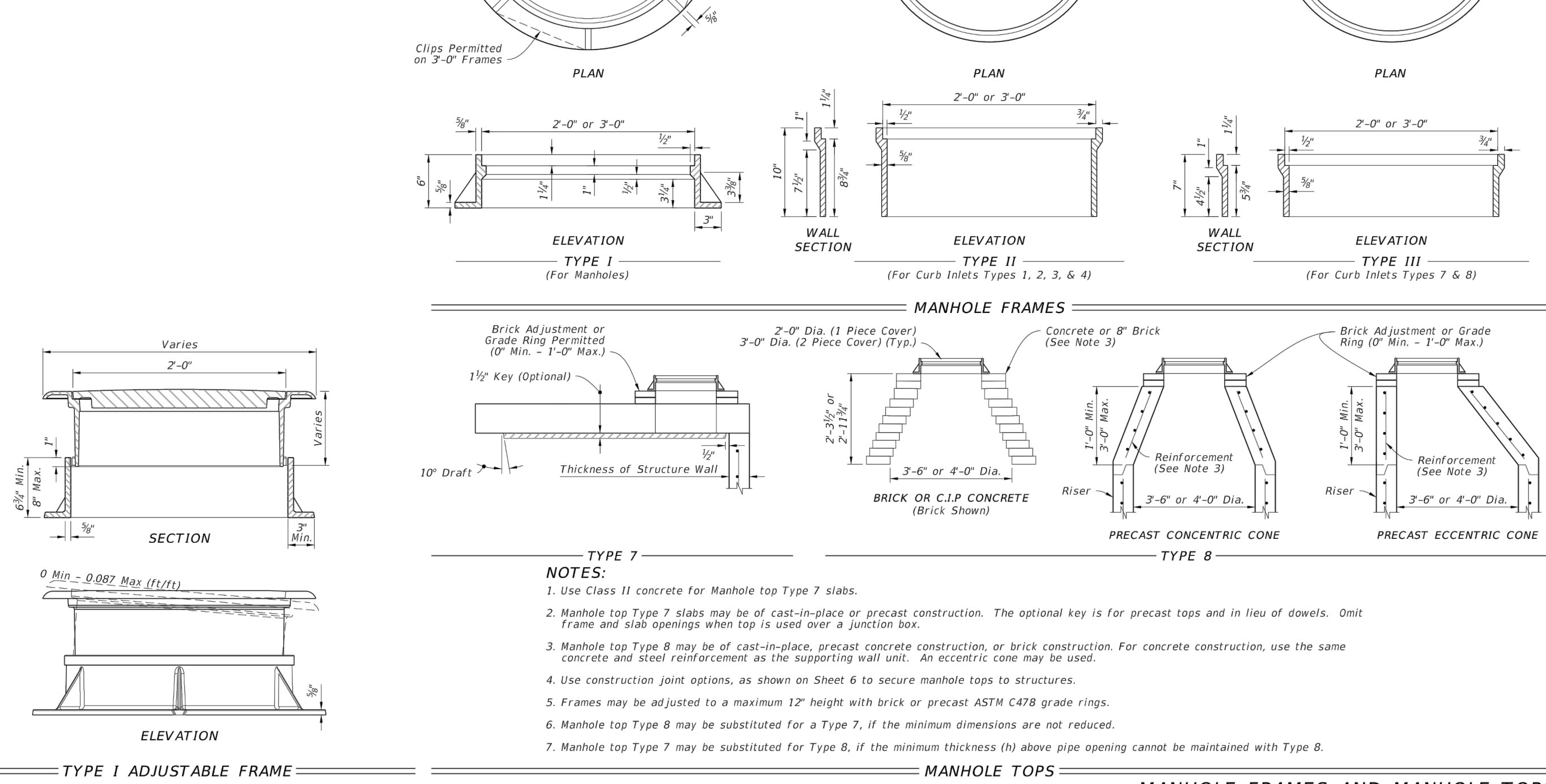


LAST REVISION 11/01/20	DESCRIPTION:	FY 2023-24 STANDARD PLANS	SUPPLEMENTARY DETAILS FOR DRAINAGE STRUCTURES	INDEX 425-001	SHEET 1 of 8
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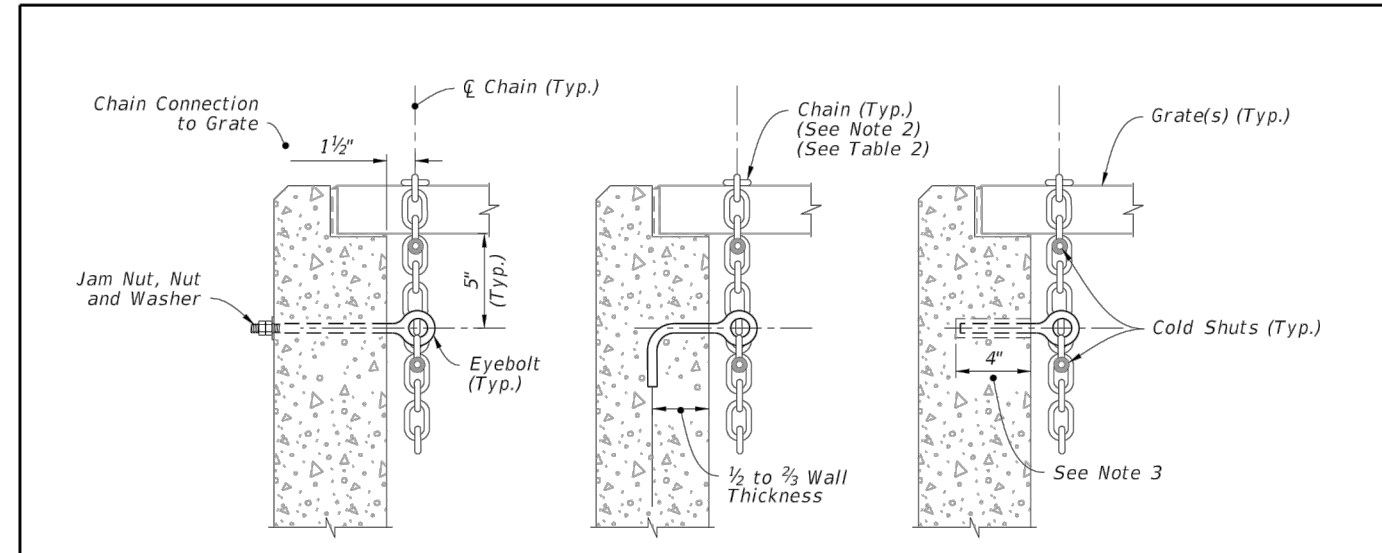
**TABLE 1
WEIGHT OF CASTINGS (lb)**

Frame Type	2'-0" OPENING			3'-0" OPENING		
	Frame	Std. Frame	2-Piece Cover	Inside	Outside	Total
I	155	190	220	190	220	410
II	145	190	255	190	220	410
III	90	190	180	190	220	410

NOTE:
Frame Type I in Table 1, includes Adjustable Frames.



LAST REVISION 11/01/20	DESCRIPTION:	FY 2023-24 STANDARD PLANS	SUPPLEMENTARY DETAILS FOR DRAINAGE STRUCTURES	INDEX 425-001	SHEET 2 of 8
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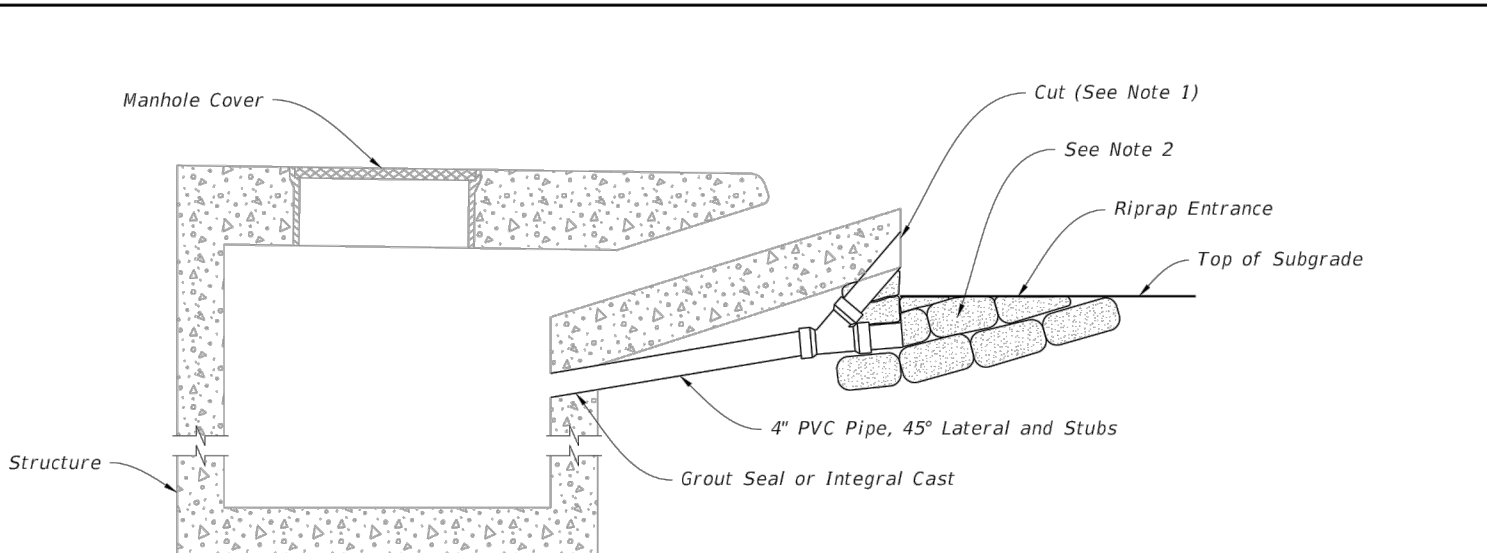


- NOTES:**
- Install either a 1/2" x 1" Diameter Threaded Straight (Thru-Bolt), a J-Type, or an adhesive Bonded Anchor Eye Bolt.
 - Install a 3/8" Chain and 3/8" Cold Shuts. When chaining two grates together provide adequate loop for easy handling.
 - Install adhesive bonded anchor option with a minimum of 4" embedment, and in accordance with Specification 416.

**TABLE 2
EYEBOLT AND CHAIN REQUIREMENTS**

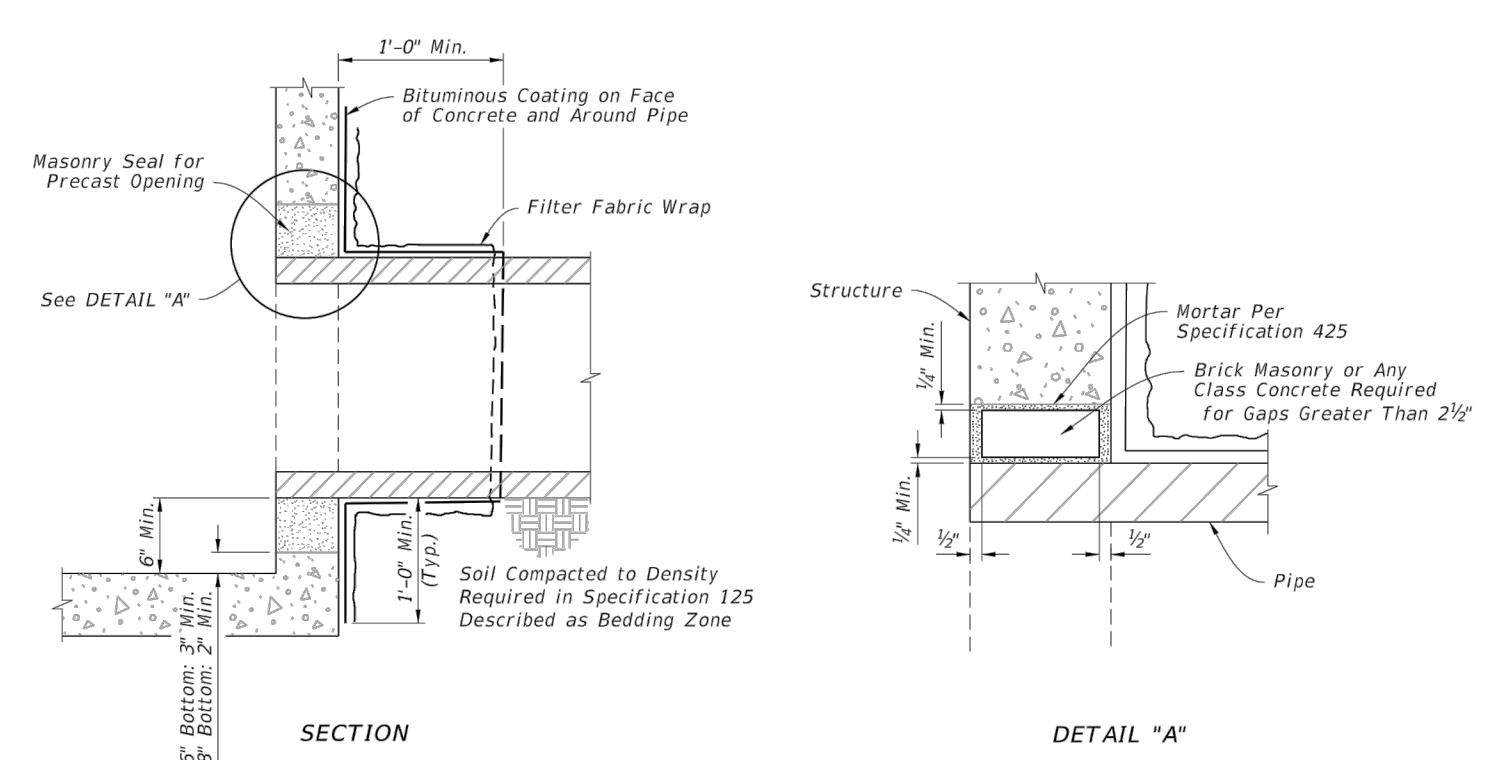
Index Number	Inlet Type	Eye Bolts	Length of Chain	Handling & Remarks
425-030	1	1	4'-0"	Slide & Spin
	2	2	2 @ 4'-0"	Slide & Spin
425-031	N/A	1	3'-8"	Slide or Slide & Spin
425-032	N/A	1	4'-0"	Slide & Spin
425-040	S	1	4'-0"	Slide & Spin
425-041	V	1	4'-0"	Slide & Spin
425-050	A	1	3'-0"	Slide
425-051	B	1	5'-0"	Slide & Spin
	C	1	2'-6"	Slide & Spin
	D	1	2'-6"	Slide & Spin
425-052	E	2	2 @ 2'-6"	Slide & Spin
	H	2	2 @ 2'-6"	Flip Ctr. Grate and Slide & Spin Single Free Grate
	F	1	1 or 2 @ 1'-6"	Center Grate(s) Chained to One End Grate
425-053	G	1	3'-6"	Flip or Slide & Spin
			6'-0"	Slide
			2'-0"	Lifting Loop
425-054	J	1	4'-0"	Slide & Spin

LOCKING GRATES TO INLETS



- NOTES:**
- Bevel cut upper stub to match forming for apron face. Capping or plugging of upper stub is not required. Remove friable base material at stub opening to permit covering of opening with structural course material.
 - Remove riprap, cement PVC cap on lower stub, and place compacted fill in entrance prior to placing base material.

SUBGRADE AND BASE TEMPORARY DRAINS



PIPE TO STRUCTURE FILTER FABRIC WRAP

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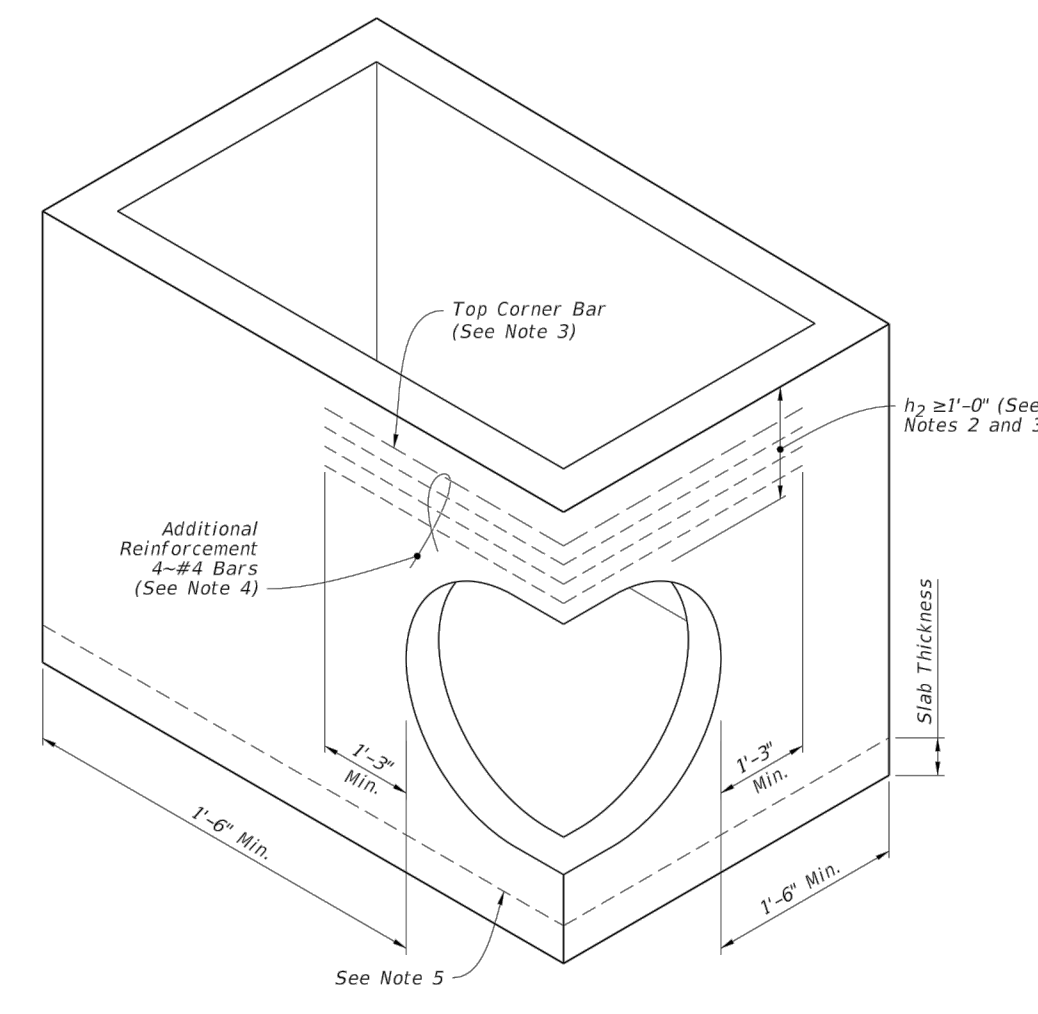
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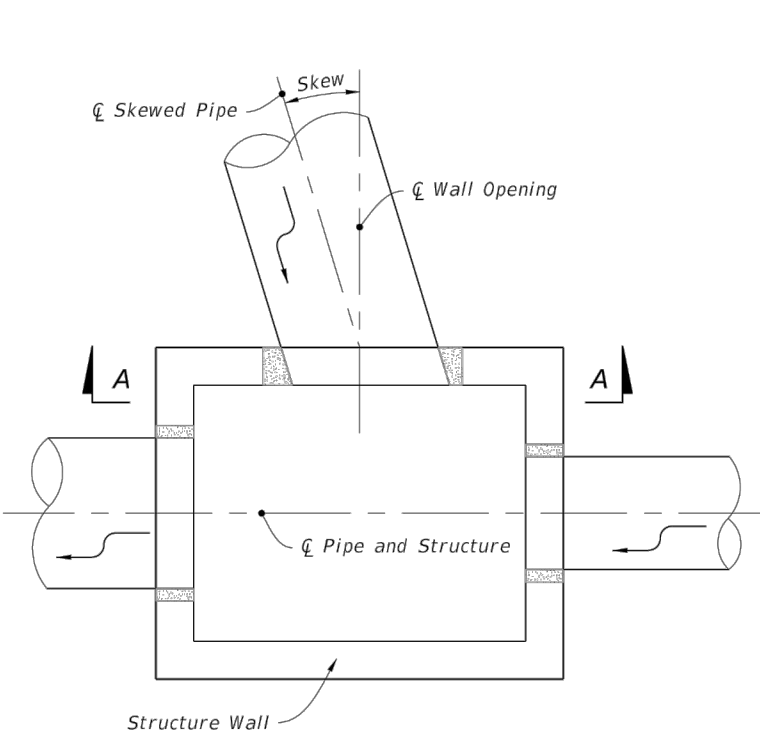


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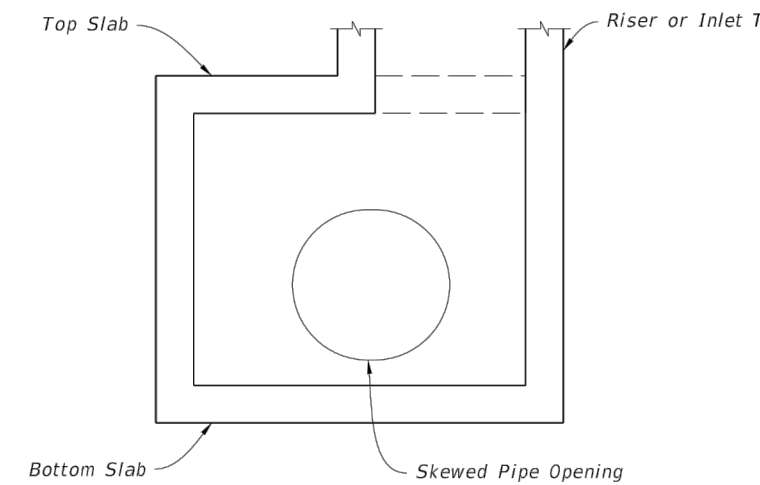


- NOTES:**
1. Submit Shop Drawings of corner openings for approval by the Engineer.
 2. h_2 may be less than 1'-0" when a minimum 1'-0" deep segment, 8" slab or curb inlet is provided above the corner opening.
 3. For inlet segments at finish grade elevation, substitute a #8 Bar for the top corner bar when 1'-0" $\leq h_2 < 2'-0"$.
 4. Install bars continuously around corner and evenly spaced. Tie additional reinforcement to the outside of vertical wall reinforcement.
 5. Dowel construction joint or monolithically cast wall and slabs.

PIPE OPENING AT CORNER

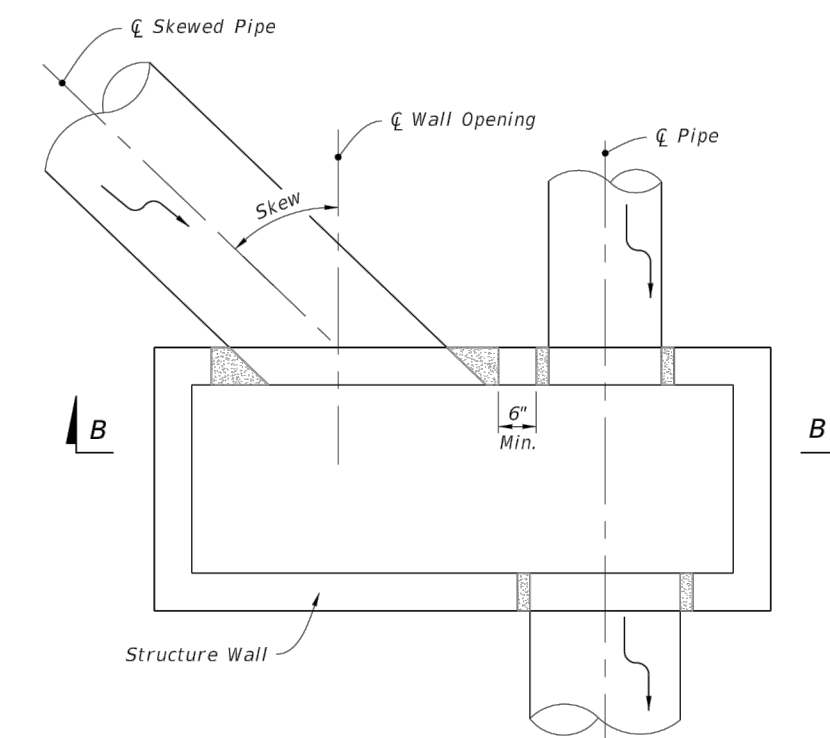


PLAN

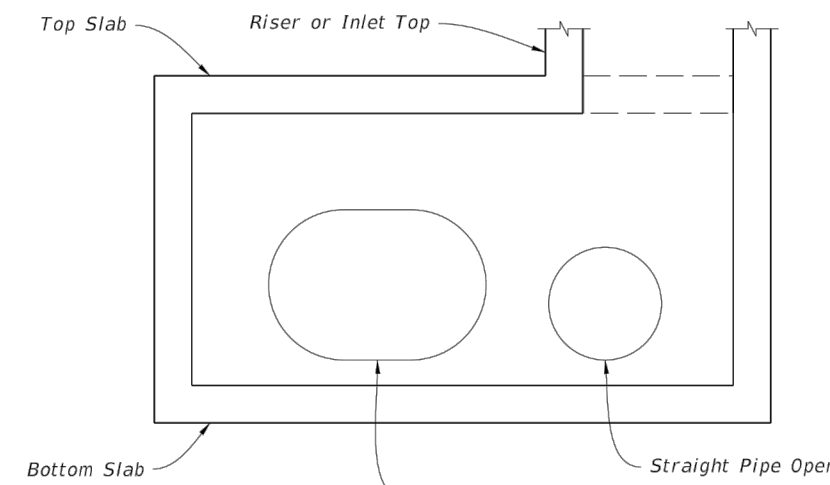


SECTION A-A

SKEWS $\leq 45^\circ$
(Not Centered)



PLAN

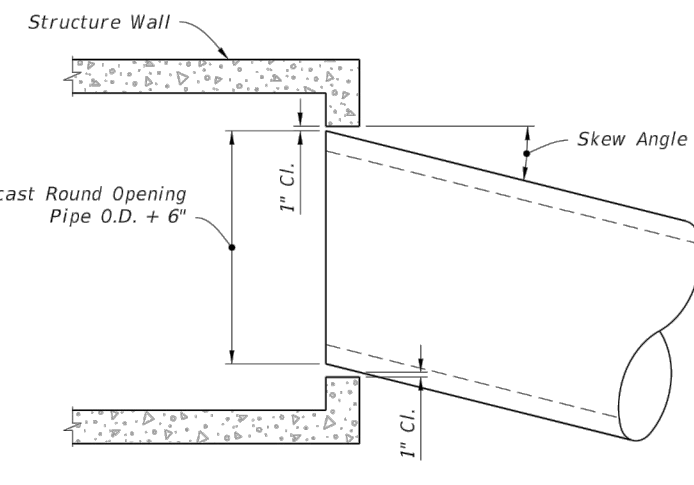


SECTION B-B

SKEWS $> 45^\circ$
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SKEWED PIPE IN RECTANGULAR STRUCTURES
(See Table 4 on Sheet 8)

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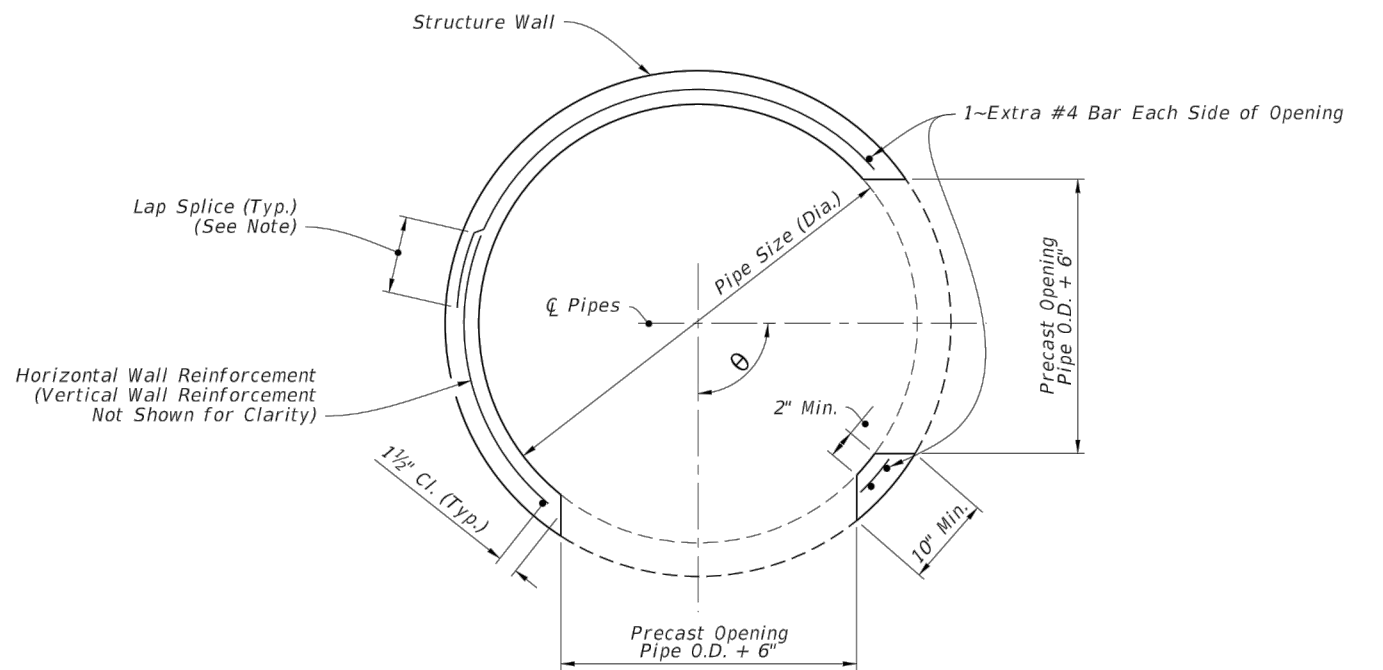
PLAN VIEW

TABLE 4 - MAXIMUM PIPE SKEW FOR PRECAST ROUND OPENINGS

WALL THICKNESS	PIPE SIZE											
	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"
MAXIMUM SKEW ANGLE	19°	17°	16°	16°	15°	14°	14°	13°	13°	13°	12°	12°
	6"	21"	20"	18"	17"	17"	16"	15"	15"	14"	14"	13"

NOTE:
These values are based on 2" clearance for precast structures. Larger skews are possible for Cast-In-Place Structures or elliptical pipe openings when approved by the Engineer.

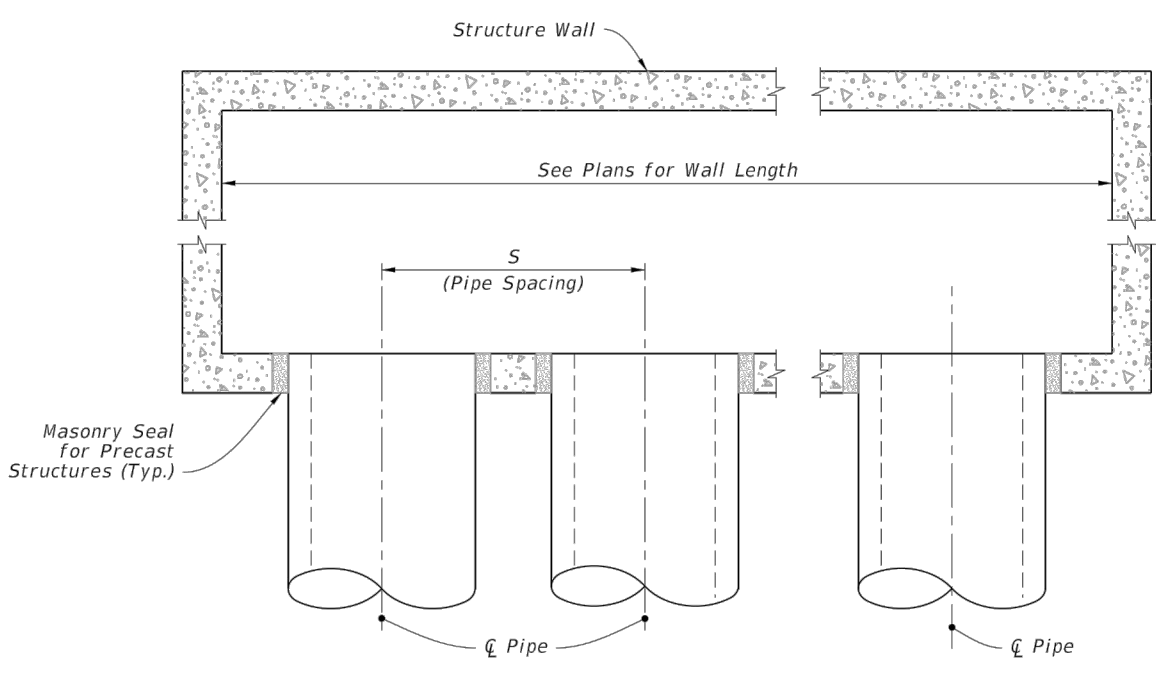
MAXIMUM PIPE SKEW FOR PRECAST ROUND OPENINGS



PLAN VIEW

NOTE:
Lap splice: 20 bar diameter for deformed wire or bar, but not less than vertical wire spacing plus 2" for WWR or 40 bar diameters for smooth wire.

MULTIPLE PIPE CONNECTIONS - PRECAST ROUND STRUCTURES



PLAN VIEW

MULTIPLE PARALLEL PIPE CONNECTIONS - RECTANGULAR STRUCTURES

TABLE 5 - MINIMUM SIZES FOR MULTIPLE PARALLEL PIPE CONNECTIONS

PIPE SIZE	PIPE SPACING (S)
18"	2'-10"
24"	3'-5"
30"	4'-3"
36"	5'-1"
42"	6'-0"
48"	6'-9"
54"	7'-8"
60"	8'-6"
66"	9'-0"
72"	10'-0"
78"	10'-9"
84"	11'-8"

MISCELLANEOUS PIPE CONNECTION DETAILS

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