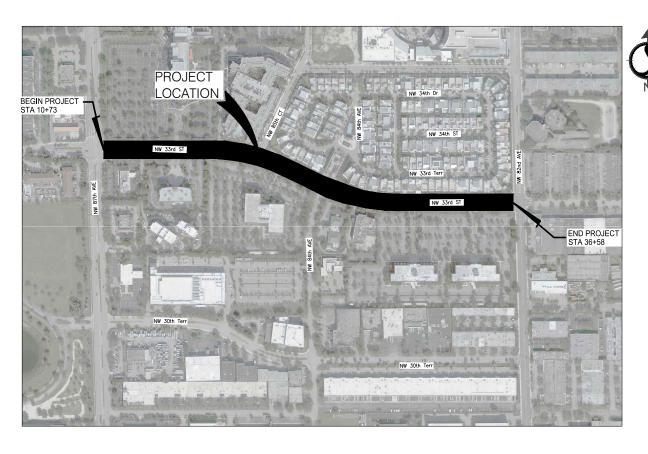
CITY OF DORAL NW 33rd STREET DRAINAGE IMPROVEMENTS

from NW 87th Ave to NW 82nd Ave

MIAMI-DADE COUNTY, FLORIDA STANTEC PROJECT NO. 215616857

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MAYOR & COUNCIL:

Juan Carlos Bermudez, Mayor Digna Cabral, Vice Mayor Pete Cabrera, Councilman Claudia Mariaca, Councilwoman Oscar Puig-Corve, Councilman

Interim City Manager: Herman Organvidez

LOCATION MAP N.T.S.



•••••APPR	OVALS•••	• • • • •	
AGENCY	SUBMITTAL DATE	APPROVAL DATE	PERM I T NUMBER
		·	



Goral Gables, Florida, 33134
Tel. 305-445-2900
Fax. 305-445-3344
www.stantec.com

ENGINEER'S CERTIFICATION:
THIS PLAN WAS PREPARED UNDER MY DIRECTION AND TO
THE BEST OF MY KNOWLEDGE AND BELIEF COMPLIES WITH
THE INTENT OF THE MANUAL OF UNIFORM STANDARDS FOR
DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS
AND HIGHWAYS, AS ADOPTED BY THE STATE OF FLORIDA

GOVERNING STANDARDS AND SPECIFICATIONS:

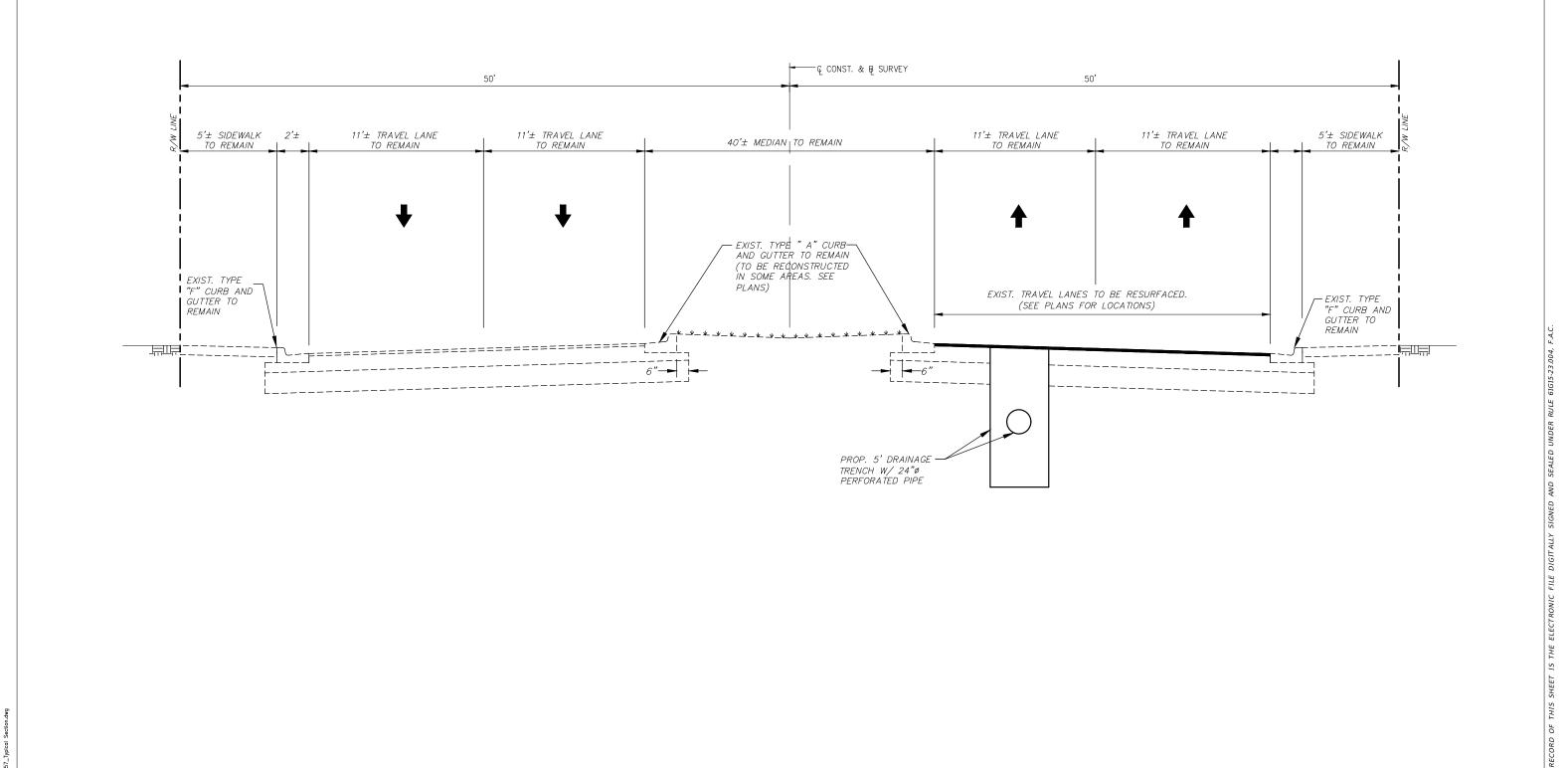
-- MIAMI DADE COUNTY STANDARDS DATED DECEMBER 2020.

LEGISLATURE, CHAPTER 72-328 F.S.

-- FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2021-22 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED JULY 2021, AS AMENDED BY CONTRACT DOCUMENTS. 100% SUBMITTAL MAY 11 2022

APPROVED BY

CARLOS M. HERDOCIA REGISTERED ENGINEER NO. 47660 STATE OF FLORIDA



Seal Consultants CITY OF DORAL Project No. NW 33rd ST DRAINAGE IMPROVEMENTS 901 Ponce de Leon Blvd. Suite 900 Coral Gables, Florida 33134 from NW 87th AVE to NW 82nd AVE www.stantec.com Drawing No. The Contractor shall weifly and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay, The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.
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 YY.MM.DD
 CARLOS M. HERDOCIA, P.E. REGISTERED ENGINEER NO. 47660 STATE OF FLORIDA File Name: By Appd. YY.MM.DD By Appd. YY.MM.DD Revision

Revision

TYPICAL SECTION

of

Scale

Sheet

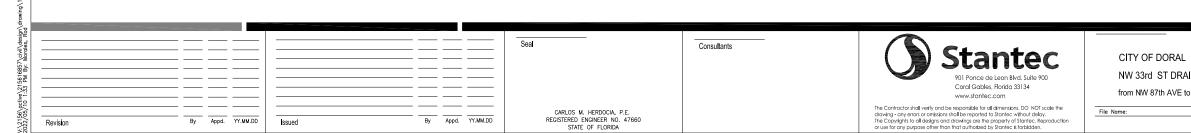
C01

PAY ITEM NO.	ITEM	UNIT	PLAN	FINAL
101-1	MOBILIZATION	L.S.	1	
102-1	MAINTENANCE OF TRAFFIC	L.S.	1	
104-1	PREVENTION, CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION	L.S.	1	
110-1-1	CLEARING AND GRUBBING	L.S.	1	
327-70-1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	S.Y.	5,266	
337-7-82	ASPHALT CONCRETE FRICTION COURSE TRAFFIC C, FC-9.5, (1" Thick) (RESURFACING)	TON	290	
337-7-82	ASPHALT CONCRETE FRICTION COURSE TRAFFIC C, FC-9.5, (1" Thick) (RECONSTRUCTION)	TON	57	
425-1	CORE DRILL EXISTING DRAINAGE STRUCTURES	E.A.	11	
425-2-41	MANHOLE TYPE P-7T (ANY DIMENSION, MAXIMUM DEPTH 15')	E.A.	18	
425-5	ADJUST EXISTING MANHOLE	E.A.	3	
425-6	ADJUST EXISTING VALVE BOXES	E.A.	10	
430-175-115	HDPE PIPE - 15" DIAMETER	L.F.	159	
430-175-118	HDPE PIPE - 18" DIAMETER	L.F.	203	
430-175-124	HDPE PIPE - 24" DIAMETER	L.F.	868	
443-70-4	EXFILTRATION DRAIN (24") (INCLUDES, BALLAST ROCK, TRENCH, AND PLASTIC FILTER FABRIC)	L.F.	471	
520-2-1	CONCRETE CURB & GUTTER, TYPE A (RECONSTRUCTION)	L.F.	550	
575-1-8	SODDING (PENSACOLA BAHIA OR MATCH EXISTING) (INCLUDES WATERING & MAINTENANCE)	S.Y.	381	
581-1	RELOCATE PALM TREE (> 10')	E.A.	2	
711–11–170	THERMOPLASTIC (WHITE) (ARROWS)	EA.	5	
711-11-101	THERMOPLASTIC (WHITE) (SOLID) (6")	G.M.	0.16	850 LF
711–11–123	THERMOPLASTIC (WHITE) (SOLID) (12")	L.F.	114	
711–11–125	THERMOPLASTIC (WHITE) (SOLID) (24")	L.F.	26	
711–11–171	THERMOPLASTIC (WHITE) (10'-30' SKIP) (6") (RPMs TO BE INCLUDED IN COST)	G.M.	0.34	1,802 LF
711-11-201	THERMOPLASTIC (YELLOW) (SOLID) (6")	G.M.	0.26	1360 LF

PAY ITEM NOTES

INCLUDES THE COST OF FURNISHING, INSTALLING AND REMOVING ALL ITEMS OF MAINTENANCE OF TRAFFIC NOT PAID FOR UNDER SEPARATE ITEMS INCLUDING BUT NOT LIMITED TO SIGNS, BARRICADES, FLASHING LIGHTS, TEMPORARY PAVEMENT MARKING, TRAFFIC SIGNAL MODIFICATION FOR TRAFFIC CONTROL, ETC. 102-1

110-1-1 INCLUDES REMOVAL OF EXISTING DRAINAGE PIPE



NW 33rd ST DRAINAGE IMPROVEMENTS from NW 87th AVE to NW 82nd AVE
 RM
 CMH
 CMH
 21.11.08

 Dwn.
 Chkd.
 Dsgn.
 YY.MM.DD
 SUMMARY OF QUANTITIES Project No. Drawing No. Revision C02 of

- ALL PUBLIC LAND CORNERS AND MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED BY THE CONTRACTOR AS FOLLOWS: CORNERS AND MONUMENTS IN CONFLICT WITH THE WORK AND IN DANGER OF BEING DAMAGED, DESTROYED, OR COVERED SHALL BE PROPERLY REFERENCED BY A REGISTERED-LAND SURVEYOR IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS OF THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS PRIOR TO BEGINNING WORK AT THE SITE. THE CONTRACTOR SHALL RETAIN THE LAND SURVEYOR TO REFERENCE, AND RESTORE UPON COMPLETION OF THE WORK, ALL SUCH CORNERS AND MONUMENTS AND SHALL FURNISH TO MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT A SIGNED AND SEALED COPY OF THE LAND SURVEYOR'S REFERENCE DRAWING.
- ALL STATIONS AND OFFSETS REFER TO CENTERLINE OF CONSTRUCTION, UNLESS OTHERWISE STATED.
- ALL GRADES SHOWN IN PLAN ARE FINISHED GRADES.
- THE CONTRACTOR SHALL PAINT ALL STATIONS WITH STENCILED NUMBERS ON THE FACE OF CURB: A. FROM THE BEGINNING OF THE PROJECT WHERE THE CURB IS TO REMAIN. 3. AT NEW CURB NOT LATER THAN 72 HOURS AFTER BEING POURED.
 - WHERE CURB DOES NOT EXIST AND SHALL NOT BE CONSTRUCTED CONTRACTOR SHALL MAINTAIN STATIONING WITH SURVEYING STAKES
 - CONTRACTOR SHALL MAINTAIN THE STATION MARKS VISIBLE UNTIL FINAL INSPECTION.
- ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT, AND ANY OTHER STATE OR LOCAL AGENCY WITH JURISDICTION. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
- THE LOCATION AND SIZE OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON THE BEST AVAILABLE INFORMATION AND SHOULD BE CONSIDERED APPROXIMATE ONLY. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL VERIEY ALL UTILITIES BY ELECTRONIC METHODS AND BY PRE-TRENCHING IN COORDINATION WITH ALL UTILITY COMPANIES, PRIOR TO BEGINNING ANY CONSTRUCTION OPERATION. ANY AND ALL CONFLICTS OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS MUST BE RESOLVED BY THE ENGINEER AND THE OWNER. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE
- EXISTING TOPOGRAPHIC INFORMATION WAS OBTAINED FROM SURVEY PREPARED BY LONGITUDE SURVEYORS
- CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE-CALL AT 1-(800)-432-4770 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES. A CONTRACTOR'S REPRESENTATIVE MUST BE PRESENT WHEN UTILITY COMPANIES LOCATE THEIR FACILITIES. CONTRACTOR SHALL CALL ALL UTILITY COMPANIES TO VERIEY EXACT LOCATION OF ALL LITHLITIES PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL COORDINATE WORK WITH ALL UTILITY COMPANIES, TOWN OF MIAMI LAKES AND OTHER CONTRACTORS TO MINIMIZE DISRUPTION OR INTERFERENCE TO THE CONTRACTOR'S WORK
- THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD AND UNDERGROUND UTILITIES.
- MIAMI-DADE WATER AND SEWER DEPARTMENT REQUIRES THAT ACCESS TO ALL WATER AND SEWER VALVES, SANITARY MANHOLES, AND OTHER CONTROL MECHANISMS BE MAINTAINED THROUGHOUT CONSTRUCTION IN THE EVENT OF AN EMERGENCY TO ENSURE THE PUBLIC HEALTH AND SAFETY. COVERING VALVE BOXES AND MANHOLES CAN BE CONSIDERED UNAUTHORIZED OBSTRUCTION OF AND TAMPERING WITH DEPARTMENT UTILITIES. ALL REQUESTS FOR UTILITY ADJUSTMENTS MUST BE MADE IN WRITING AT LEAST TWO (2) WEEKS IN ADVANCE. FOR MANHOLE AND VALVES, CONTACT THE CONSTRUCTION MANAGEMENT SECTION, PUMP STATIONS UNIT, 3071 SW 38 AVENUE, FAX NO. 305-668-3626. T DEPARTMENT WILL MAKE ONE FINAL AND PERMANENT ADJUSTMENT AT NO COST TO THE REQUESTING AGENCY. FOR THE DEPARTMENT WILL MAKE ONE FINAL AND PERMANENT AUJUSTMENT AT NO COST TO THE REQUESTING AGENCY. FOR THE ADJUSTMENT OF WATER METERS, CONTACT THE CHIEF OF METER OPERATIONS AND MATERANCE, FAX NO. 305-545-3482. FOR ANY FIRE HYDRANTS THAT ARE DAMAGED OR BUMPED DURING CONSTRUCTION, CONTACT THE MOWASD HYDRANT SHOP AT 305-805-4575 BEFORE POURING CONCRETE FOR THE SIDEWALK. IN THE EVENT OF A WATER OR SEWER EMERGENCY, CONTACT MIAMI DADE WATER AND SEWER DEPARTMENT AT 305-274-9272. THIS LINE IS OPEN 24 HOURS, 7 DAYS A WEEK.
- KNOWN UTILITY COMPANIES IN THE PROJECT LIMITS INCLUDE, BUT ARE NOT LIMITED TO:
 - FP&L (800) 868-9554 & (305) 552-2931
 - AT&T (305) 222-8745
 - MIAMI-DADE WATER AND SEWER DEPT. (786) 268-5255
 - COMCAST CABLE (954) 447-8405 FLORIDA CITY GAS (305) 835-3632
 - MIAMI DADE COUNTY PUBLIC WORKS (305) 592-8925
- THE CONTRACTOR IS ADVISED THAT PROPERTIES ADJACENT TO THE PROJECT HAVE ELECTRIC, TELEPHONE, GAS, WATER AND/OR SEWER SERVICE LATERALS WHICH MAY NOT BE SHOWN IN PLANS. THE CONTRACTOR MUST REQUEST THE LOCATION OF THESE LATERAL SERVICES FROM THE UTILITY COMPANIES. THE ADDITIONAL COST OF EXCAVATING, INSTALLING, BACKFILLING, AND COMPACTING AROUND THESE LATERAL SERVICES MUST BE INCLUDED IN THE BID RELATED ITEM FOR THE
- 15. ANY DAMAGE TO PUBLIC OR PRIVATE PROPERTY SHALL BE RESTORED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ASPHALT, CONCRETE OR PAVER DRIVEWAYS ON PRIVATE PROPERTY ABUTTING RIGHT-OF-WAY WHICH ARE DAMAGED OR IMPACTED DURING CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AS DIRECTED BY THE ENGINEER.
- ANY ENCROACHMENT WITHIN THE LIMITS OF CONSTRUCTION SHALL BE RELOCATED OR PROTECTED BY THE ADJACENT PROPERTY OWNER AT THEIR EXPENSE.
- CLEARING AND GRUBBING, GRADING AND OTHER INCIDENTAL WORK NECESSARY FOR HARMONIZATION OUTSIDE R/W SHALL BE
- ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RE-SODDED. SODDING TO BE USED AT LOCATIONS WHERE EXISTING LAWNS OR SWALES ARE DISTURBED, AT CONTRACTORS EXPENSE AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHOULD TAKE SPECIAL NOTE OF SOIL CONDITIONS THROUGHOUT THIS PROJECT. ANY SPECIAL SHORING, SHEETING OR OTHER PROCEDURES NECESSARY TO PROTECT ADJACENT PROPERTY, PUBLIC OR PRIVATE, DURING THE EXCAVATION OF SUBSOIL MATERIAL AND EXFILTRATION TRENCH, OR FILLING OF ANY AREA, OR FOR ANY OPERATION DURING CONSTRUCTION, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- IF SHEETING, SHORING, OR DEWATERING, INCLUDING WELL POINTS ARE NECESSARY, THE CONTRACTOR MUST MONITOR AND CONTROL ALL WORK THAT MAY CAUSE CRACKING TO ANY ADJACENT BUILDING, STRUCTURE, OR PROPERTY AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES CAUSED BY THESE OPERATIONS. COST OF SHEETING, SHORING, OR DEWATERING SHALL BE INCLUDED IN THE RELATED BID ITEM FOR THE WORK BEING DONE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE DEWATERING PERMIT. COST OF THE PERMIT AND DEWATERING SHALL BE INCLUDED IN THE THE RELATED BID ITEM FOR THE WORK BEING DONE.

- THE CONTRACTOR WILL RESTRICT PERSONNEL. THE USE OF EQUIPMENT, AND THE STORAGE OF MATERIALS TO AREAS WITHIN
- EXPLORATORY OR PRE-TRENCHING IN THE ALIGNMENT AND GRADE OF PROPOSED PIPES STRUCTURES, FRENCH DRAINS CONDUITS, POLE FOUNDATIONS AND/OR SUB-GRADE SHALL BE PERFORMED SEVEN DAYS IN ADVANCE OF ITS CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE UNDERGROUND UTILITY OWNERS AND THE DEPARTMENT WITH IMMEDIATE NOTIFICATION OF ANY CONFLICT WITH PROPOSED CONSTRUCTION. THIS NOTIFICATION SHALL PROVIDE SURVEY INFORMATION ABOUT EXISTING UTILITY ALIGNMENT, GRADE AND POSSIBLE CONFLICTS. PAYMENT FOR EXPLORATORY OR PRE-TRENCHING, SURVEY AND BACKFILLING SHALL BE INCLUDED IN THE COST OF THE RELATED BID ITEM FOR THE WORK
- ALL DITCH EXCAVATIONS SHALL BE PERFORMED IN FULL COMPLIANCE WITH THE PROVISIONS OF THE TRENCH SAFETY ACT.
- ALL EXCESS MATERIAL. AS DESIGNATED BY THE ENGINEER, IS TO BE DISPOSED BY THE CONTRACTOR IN LEGAL AREAS PROVIDED BY HIM WITHIN 72 HOURS OF BEING DEPOSITED IN THE CONSTRUCTION AREA AND AT THE CONTRACTOR'S
- ALL DISPOSAL OF MATERIALS, RUBBISH, AND DEBRIS SHALL BE MADE AT A LEGAL DISPOSAL SITE OR BY OTHER PRIOR APPROVED MANNER. MATERIAL CLEARED FROM THE SITE AND DEPOSITED ON ADJACENT OR NEARBY PROPERTY WILL NOT BE CONSIDERED AS HAVING BEEN DISPOSED OF SATISFACTORILY.
- ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT BY THE CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE PROJECT ENGINEER, WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA OF KNOWN OR SUSPECTED CONTAMINATION FROM PURTHER ACCESS. THE ENGINEER WILL ARRANGE FOR INVESTIGATION, IDENTIFICATION, AND REMEDIATION OF THE HAZARDOUS MATERIAL. THE CONTRACTOR SHALL NOT RETURN TO THE AREA OF CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE PROJECT ENGINEER.
- EXISTING ABOVE GROUND FEATURES ARE SHOWN ACCORDING TO THE BEST AVAILABLE DATA AND MAY NOT ACCURATELY REFLECT PRESENT CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH CURRENT SITE CONDITIONS, AND SHALL REPORT DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING WORK.
- CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES AND UTILITIES, WHICH MAY NOT BE SHOWN ON PLANS. ANY STRUCTURE, PAVEMENT, TREES OR OTHER EXISTING IMPROVEMENT NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARY DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THIS CONTRACT, SHALL BE REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
 CONTRACTOR TO INSTALL ROOT BARRIERS AROUND EXISTING TREES TO REMAIN WHICH ARE ADJACENT TO CONCRETE
- CONTRACTOR SHALL AVOID DAMAGE TO ANY EXISTING TREES TO REMAIN. EXISTING TREES SHALL BE REMOVED ONLY IF REQUIRED FOR CONSTRUCTION. THOSE TREES NOT INTERFERING WITH CONSTRUCTION SHALL BE PROTECTED IN PLACE.
- TRAFFIC SHALL BE MAINTAINED ON DUST FREE ASPHALT SURFACE AT ALL TIMES. THE CONTRACTOR SHALL USE A STREET SWEEPER (USING WATER) OR OTHER EQUIPMENT CAPABLE OF CONTROLLING AND REMOVING DUST. APPROVAL OF THE USE OF SUCH EQUIPMENT IS CONTINGENT UPON ITS DEMONSTRATED ABILITY TO DO THE WORK
- THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL ITEMS USED IN THIS PROJECT.
- WHEN DISSIMILAR MATERIAL CONNECTIONS ARE MADE, SUCH AS CONCRETE TO METAL, THE DISSIMILAR MATERIAL SHALL BE SEPARATED BY COATING THE CONTACT SURFACE WITH BITUMASTIC MATERIAL
- THE CONTRACTOR IS RESPONSIBLE FOR KEEPING EXISTING AND NEW INLETS CLEAN OF MILLING MATERIAL, LIMEROCK, DEBRIS. ETC. DURING THE CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER. ALL LINES AND STRUCTURES SHALL BE CLEANED PRIOR TO FINAL INSPECTION AND ACCEPTANCE AND CONFIRMED WITH CCTV.
- CAST IRON PRODUCTS: HEAVY-DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC LOADS OR 16,000 LBS WHEEL
- STEEL GRATING AND COVERS: TRAFFIC CLASSIFICATION H-20; 16,000 LBS OVER 8"X20" AREA
- EXISTING MANHOLES AND INLETS SCHEDULED TO REMAIN SHALL BE THOROUGHLY CLEANED BY REMOVING ALL DEBRIS AND SEDIMENTS, AND THE INTERIOR SHALL BE SEALED WITH AN APPROVED NON-TOXIC BITUMASTIC SEALANT
- PRIOR TO CONSTRUCTION THE CONTRACTOR WILL INSPECT ALL EXISTING STRUCTURES WHICH ARE TO REMAIN AND NOTIFY THE ENGINEER OF ANY OBVIOUS STRUCTURAL DEFICIENCIES.
- CONTRACTOR SHALL ADJUST ALL EXISTING CATCH BASINS, GRATES, AND STORM MANHOLE COVERS TO MEET NEW GRADES WHERE APPLICABLE (ITEM NUMBER 425-5 & 425-6).
- FLEVATIONS AND OFFSETS SHOWN AT DRAINAGE STRUCTURES REFER TO FDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- RADII ON CURB RETURNS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- PRIOR TO CONSTRUCTION THE CONTRACTOR WILL VERIFY INVERT ELEVATIONS OF ALL PIPES WHICH ARE TO REMAIN AND NOTIFY THE ENGINEER OF ANY ELEVATION DEVIATIONS.
- THERE SHALL BE NO MORE THAN THREE LATERAL DRAINAGE INSTALLATIONS WITHOUT BACKFILLING. BACKFILLING OF LATERAL DRAINAGE SHALL NOT LAG MORE THAN 72 HOURS BEHIND THE START OF EXCAVATION.
- SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES EXTEND INTO THE STABILIZED PORTION OF THE ROADBED AND EXTREME CAUTION SHOULD BE USED IN THE STABILIZING OPERATIONS AT THESE
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION, AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH SPECIFICATIONS OUTLINED IN THE PUBLIC WORKS STANDARD DETAILS, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND THE FDOT DESIGN STANDARDS.
- WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT STRAIGHT LINE AND FLUSH WITH THE
- 48. THE LOCATION OF SOME DRIVEWAYS IS APPROXIMATE. VERIFICATION OF EXACT LOCATION AND DIMENSIONS IS
- EXISTING DRIVEWAYS WITHIN THE LIMITS OF THIS PROJECT ARE TO BE REPLACED AT THE SAME LOCATION, WIDTH AND MATERIAL TYPE, UNLESS OTHERWISE SHOWN IN PLANS.

Consultants

CARLOS M. HERDOCIA, P.E.

REGISTERED ENGINEER NO. 47660

STATE OF FLORIDA

- CONTRACTOR TO INSTALL 1/2" PREFORMED EXPANSION JOINT WHEN PROPOSED SIDEWALK IMPROVEMENTS IS IMMEDIATELY ADJACENT TO EXISTING CONCRETE SLAB AND/OR BUILDING.
- THE SIDEWALK AT ALL PROPOSED DRIVEWAY TURNOUTS SHALL BE 6" CONCRETE, INCLUDING 5' WIDE SIDEWALK AT RIGHT-OF-WAY AS WELL AS ENTIRE DRIVEWAY WIDTH AND FLARES.

- ALL BUS STOP SIGNS TO BE FURNISHED AND INSTALLED BY MIAMI-DADE TRANSIT (MDT). CONTRACTOR TO CONTACT MIAMI-DADE COUNTY TRANSIT AT (305)637-3753 ONE (1) WEEK PRIOR TO POURING SIDEWALKS AND COORDINATE THE REMOVAL AND REPLACEMENT OF BUS STOP SIGNS AND BENCHÉS. CONTRACTOR TO COORDINATE RELOCATION AND/OR REMOVAL OF BUS BENCHES, BUS SHELTERS AND BUS ROUTE SIGNS WITH MR. RICARDO AGUILAR AT 305-889-6743.
- COMPLETE AS-BUILT INFORMATION RELATIVE TO LOCATION AND DEPTH OF PIPES, MANHOLES, ETC. SHALL BE ACCURATELY RECORDED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE WORK. ALL ELEVATIONS SHALL BE TAKEN BY A FLORIDA REGISTERED SURVEYOR AND SHOWN ON THE RECORD DRAWINGS.
- DESIGN WATER TABLE ELEVATION: 3.00
- MIAMI-DADE COUNTY FLOOD CRITERIA ELEVATION: 7.00
- THE INFORMATION PROVIDED IN THESE DRAWINGS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH WILL BE ENCOUNTERED DURING THE COURSE OF WORK. THE CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH BIDS WILL BE BASED
- LOCAL RESIDENTS, PROPERTY OWNERS AND TENANTS WITHIN THE AREA OF CONSTRUCTION SHALL BE GIVEN ACCESS TO THEIR
- CONTRACTOR SHALL REMOVE ANY EXISTING STRIPING THAT CONFLICTS WITH THE MAINTENANCE OF TRAFFIC DURING CONSTRUCTION AND PROVIDE ADEQUATE TEMPORARY SIGNING AND/OR STRIPING USING REFLECTORIZED PAINT.
- PAVED ASPHALT TEMPORARY PAVEMENT AND CONNECTIONS SHALL BE PROVIDED THROUGHOUT PROJECT. AS NEEDED AND DIRECTED BY THE ENGINEER TO MAINTAIN TRAFFIC AND ACCESS. (ITEM NUMBER 102-1)
- CONTRACTOR SHALL PRESERVE ALL STREET SIGNS, BENCHES, TRAFFIC CONTROL SIGNS, ETC. AS DIRECTED BY THE ENGINEER. WHEN DIRECTED BY THE ENGINEER, CONTRACTOR SHALL REINSTALL OR DELIVER SAID PUBLIC PROPERTY TO THE TOWN OF MIAMI LAKES AND/OR MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT.
- ALL EXISTING FIRE HYDRANTS SHALL REMAIN UNDISTURBED UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL CAREFULLY SAW-CUT ANY ROOTS IN CONFLICT WITH CONSTRUCTION OF CURB, SIDEWALK, DRAINAGE OR UTILITIES. ROOTS TORN BY BACKHOE WILL NOT BE ALLOWED AT CONTRACTORS EXPENSE.
- CONTRACTOR SHALL MAINTAIN TRENCHING TO THE MINIMUM REQUIRED TO DO WORK TO AVOID DAMAGE TO TREES. ANY TREES EXPECTED TO BE DAMAGED NOTIFY ENGINEER.
- RESIDENTS, PROPERTY OWNERS AND TENANTS ALONG PROJECT ROUTE SHALL RECEIVE MINIMUM SEVEN (7) DAY ADVANCE WRITTEN NOTIFICATION BY CONTRACTOR OF WORK TO BE PERFORMED IN FRONT OF THEIR PROPERTY.
- ALL SIDEWALK CLOSURES SHALL BE PROVIDED BY THE CONTRACTOR WITH PROPER PEDESTRIAN DIRECTIONAL DETOUR 65.
- CONTRACTOR SHALL RELOCATE ALL EXISTING MAILBOXES IN CONFLICT WITH PROPOSED CONSTRUCTION AS PER MIAMI-DADE COUNTY PUBLIC WORKS AND WASTE MANAGEMENT ROADWAY STANDARDS AND CONSTRUCTION STANDARD DETAILS.
- CONTRACTOR SHALL CONFORM TO ALL LATEST STANDARDS OF F.D.O.T. AND MIAMI-DADE COUNTY PUBLIC WORKS AND WASTE MANAGEMENT ROADWAY STANDARDS AND CONSTRUCTION STANDARD DETAILS.
- NOTHING, INCLUDING UTILITIES, FURNISHINGS AND LANDSCAPING CAN PROTRUDE INTO THE PEDESTRIAN CLEAR PATH ZONE, FROM 27" TO 80" HIGH, AND FOR NOT MORE THAN 4" IN WIDTH.
- AS-BUILT PLANS THE CONTRACTOR WILL BE FURNISHED THE CAD FILES FOR USE IN PREPARING AS-BUILT DRAWINGS TO BE SUBMITTED TO THE ENGINEER WITHIN THE TIME FOR SUBSTANTIAL COMPLETION OF THE PROJECT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RETAIN A PROFESSIONAL LAND SURVEYOR TO PREPARE AS-BUILT DRAWINGS IN AUTOCAD FORMAT AND PDF. THE COST OF SAID SERVICES SHALL BE INCLUDED IN THE CONTRACTOR'S PRICE WHETHER SHOWN AS A SEPARATE LINE ITEM OR NOT. CONTRACTOR SHALL SUBMIT COMPLETED AS-BUILT PLANS, ACCEPTABLE TO THE CITY, WITHIN FOURTEEN (14) DAYS AFTER THE SUBSTANTIAL COMPLETION DATE. THE CITY RESERVES THE RIGHT TO REVIEW THE AS-BUILTS AND TO REQUIRE REVISIONS TO BE MADE BY THE CONTRACTOR'S SURVEYOR AT NO ADDITIONAL COST TO THE CITY.

ENVIRONMENTAL

- A. NO STAGING OR OTHER ACTIVITIES FOR THIS PROJECT SHOULD OCCUR WITHIN NO STAGING OR OTHER ACTIVITIES FOR THIS PROJECT SHOULD OCCUR WITHIN THE DRIPLINE OF EXISTING TREES.
- B. PREVENT DAMAGING TREES AND PLANTERS WITHIN OR IMMEDIATELY ADJACENT PREVENT DAMAGING TREES AND PLANTERS WITHIN OR IMMEDIATELY ADJACENT TO THE PROJECT'S RIGHT-OF-WAY.
- C. THERE WILL BE NO TREE REMOVAL IN THIS PROJECT. WHEN NECESSARY, THERE WILL BE NO TREE REMOVAL IN THIS PROJECT. WHEN NECESSARY, INSTALL A PHYSICAL & HIGHLY VISIBLE BARRIER AROUND THE TREE TO BE PROTECTED. USE DURABLE FENCING MATERIAL, SUCH AS PLASTIC CONSTRUCTION FENCING OR EQUIVALENT MATERIAL. PLACE THE BARRIER AS DETERMINED IN THE PRE-CONSTRUCTION SURVEY, IDENTIFYING CRITICAL AREAS TO BE PROTECTED.
- D. TREE PROTECTION SHALL BE INSTALLED AROUND TREES TO REMAIN LOCATED TREE PROTECTION SHALL BE INSTALLED AROUND TREES TO REMAIN LOCATED ADJACENT TO CONSTRUCTION ACTIVITIES.
- E. THE CONTRACTOR SHALL NOT REMOVE, RELOCATE OR PRUNE ANY TREES THE CONTRACTOR SHALL NOT REMOVE, RELOCATE OR PRUNE ANY TREES WITHOUT PRIOR APPROVAL FROM THE CITY. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM THE CITY OF DORAL PUBLIC WORKS DEPARTMENT PRIOR TO ANY TREE REMOVAL/RELOCATION.
- F. THE CONTRACTOR SHALL REVIEW ENVIRONMENTAL REQUIREMENTS OF ANY PROPOSED STAGING AREAS WITH THE CITY OF DORAL PROJECT MANAGER AT LEAST 72 HR PRIOR USE.
- G. CONTRACTOR MUST HAVE AN ARBORIST PRESENT AT ALL TIMES DURING ANY ROOT PRUNING AND PROTECTION OF EXISTING TREES.
- H. CONTRACTOR WILL BRACE ALL EXISTING LANDSCAPING TO REMAIN PRIOR TO CONTRACTOR WILL BRACE ALL EXISTING LANDSCAPING TO REMAIN PRIOR TO BEGINNING ANY WORK AND WILL ENSURE THEIR STABILIZATION THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS. EXISTING SOD DISTURBED BY CONSTRUCTION THAT IS NOT AFFECTED BY PROPOSED GRADING WILL BE RESTORED TO ITS ORIGINAL STATE UPON COMPLETION OF CONSTRUCTION. SODDED SLOPES STEEPER THAN 4 HORIZONTAL TO 1 VERTICAL WILL BE PEGGED.
- ALL WASTE GENERATED FROM THE CONSTRUCTION SHALL BE DISCARDED IN ALL WASTE GENERATED FROM THE CONSTRUCTION SHALL BE DISCARDED IN ACCORDANCE WITH ALL APPLICABLE STATE, LOCAL, AND FEDERAL REGULATIONS. CONTRACTOR IS TO OBTAIN ALL APPLICABLE CODES AND BECOME FAMILIAR WITH STATE, LOCAL AND FEDERAL REGULATIONS PRIOR TO BEGINNING CONSTRUCTION. REGULATIONS CAN BE FOUND, BUT NOT LIMITED TO, DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- J. TO ENSURE THAT OFF-SITE VEHICLE TRACKING OF SEDIMENTS AND THE TO ENSURE THAT OFF-SITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST IS MINIMIZED, CONTRACTOR IS TO PUT INTO PRACTICE THE METHODS DETAILED IN FDOT INDEX 106 (LATEST VERSION).
- K. DUST GENERATED FROM CONSTRUCTION WILL BE MINIMIZED. A WATER TRUCK AND DUST GENERATED FROM CONSTRUCTION WILL BE MINIMIZED. A WATER TRUCK AND SITE CLEANING AT THE END OF EACH WORK DAY IS REQUIRED. DISPOSAL OF EXCESS MATERIAL IS SEVENTY TWO (72) HOURS MAXIMUM

Sea By Appd. YY.MM.DD By Appd. YY.MM.DD Revision

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CITY OF DORAL NW 33rd ST DRAINAGE IMPROVEMENTS from NW 87th AVE to NW 82nd AVE

RM CMH CMH 21.11.08

GENERAL NOTES Project No. Drawing No Sheet Revision C03

61G15-23.004,

RULE

UNDER

SEALED

			SU	MMARY OF DRAIN	NAGE ST	RUCTURES		
Structure Number	Station	Off-set	Structure Type	FRAME & GRATE	Rim Elev.	Pipe Inverts	Bottom (Sump) Elev.	Pollution Retardant Baffile N S E W
ES-01	10+92.49	43.43' R	EXIST. P-6	Standard	5.16	EXIST PIPE 15" (1.08) (N)	-0.84	
ES-02	10+92.75	3.83' R	Exist. MH	Standard	7.05	EXIST PIPE 15" (1.05) (S) EXIST PIPE 15" (1.06) (N) EXIST PIPE 18" (1.06) (E)	-1.95	
ES-03	10+95.07	43.50' L	Exist P-6	Standard	5.19	EXIST PIPE 15" (1.39) (S)	-0.81	
ES-04	12+33.80	43.27' R	Exist. P-5	Standard	6.05	SOLID PIPE 15" (0.50) (N)(CD) EXIST PIPE 18" (2.38) (E)	0.15	
ES-05	12+35.72	43.91' L	Exist. P-5	Standard	5.99	SOLID PIPE 15" (0.20) (S) (CD) EXIST PIPE 18" (2.67) (E)	0.14	
ES-06	13+74.54	4.45' R	Exist. MH	Standard	8.41	EXIST PIPE 18" (0.31) (W) SOLID PIPE 18" (0.00) (S)(CD)	-1.69	
ES-07	15+66.26	5.42' R	EXIST. MH	Standard	8.24	SOLID PIPE 18" (0.00) (S) (CD) EXIST PIPE 15" (1.44) (E)	-0.51	
ES-08	16+99.62	5.79' R	EXIST. MH	Standard	7.80	EXIST PIPE 15" (1.25) (W) EXIST PIPE 18" (1.23) (E) EXIST PIPE 15" (1.70) (S) EXIST PIPE 15 (2.00) (N)	-4.92	
ES-09	18+15.99	4.93' R	EXIST MH	Standard	7.06	EXIST PIPE 18" (0.76) (W) SOLID PIPE 18" (0.00) (S)(CD)	-1.19	
ES-10	21+80.64	43.76' L	EXIST P-5	Standard	6.33	EXIST PIPE 18" (3.22) (SE) SOLID PIPE 15" (0.10) (SW) (CD)	-0.49	
ES-11	21+81.22	43.29' R	EXIST CB	Standard	6.57	EXIST PIPE 18" (2.62) (SE)	0.62	
ES-12	22+43.48	5.27' R	EXIST. MH	Standard	8.15	SOLID PIPE 18" (0.00) (SW) (CD) EXIST PIPE 18" (1.40) (SE)	-0.30	
ES-13	23+20.69	5.60' R	EXIST. MH	Standard	7.79	EXIST PIPE 18" (1.29) (NW) EXIST PIPE 18" (1.14) (SE) EXIST PIPE 15" (1.81) (SW) EXIST PIPE 15" (1.83) (NE)	-4.92	
ES-13A	23+19.07	43.14' R	EXIST P-6	Standard	6.26	EXIST PIPE 15" (1.96) (NE)	-0.04	
ES-13B	23+20.31	44.18' L	EXIST P-6	Standard	6.26	EXIST PIPE 15" (2.21) (SW)	0.29	
ES-14	24+74.46	6.43' R	EXIST. MH	Standard	7.73	SOLID PIPE 18" (0.00) (S) (CD) EXIST PIPE 18" (-1.58) (NW)	-2.58	
ES-15	24+81.20	83.38' R	EXIST. MH	Standard	6.58	SOLID PIPE 18" (1.00) (NE)(CD) EXIST PIPE 15" (1.28) (W) EXIST PIPE 15" (1.83) (SE)	-4.62	
ES-16	26+99.27	4.19' R	EXIST. MH	Standard	7.77	SOLID PIPE 18" (0.00) (S) (CD) EXIST PIPE 18" (1.52) (E)	-0.33	
ES-17	27+99.55	3.16' R	EXIST. MH	Standard	7.66	EXIST PIPE 18" (1.41) (W) EXIST PIPE 18" (1.01) (E) EXIST PIPE 15" (1.84) (S) EXIST PIPE 15" (-1.89) (N)	-4.89	
ES-18	29+00.43	3.29' R	EXIST. MH	Standard	7.92	SOLID PIPE 18" (0.00) (S) (CD) EXIST PIPE 18" (1.82) (W)	-0.13	
ES-19	32+64.21	43.72' L	EXIST. P6	Standard	6.34	EXIST PIPE 15" (2.34) (S)	0.49	
ES-20	32+64.69	3.81' R	EXIST. MH	Standard	7.69	EXIST PIPE 15" (2.15) (N) EXIST PIPE 15" (2.09) (S) EXIST PIPE 18" (1.24) (E)	-0.36	

(CD)=	CORE	DRILL	INVER

			SUM	IMARY OF DRAIN	IAGE ST	RUCTURES		
Structure Number	Station	Off-set	Structure Type	FRAME & GRATE	Rim Elev.	Pipe Inverts	Bottom (Sump) Elev.	Pollution Retardant Baffile N S E W
ES-21	32+64.77	43.27' R	EXIST. P6	Standard	6.37	EXIST PIPE 15" (2.47) (N)	0.57	
ES-22	34+50.25	2.30' R	EXIST. MH	Standard	8.29	EXIST PIPE 18" (1.24) (W) EXIST PIPE 18" (2.44) (E)	-0.56	
ES-23	36+35.56	4.80' R	EXIST. MH	Standard	7.34	EXIST PIPE 18" (2.44) (W)	-0.41	
S-01	10+92.73	25.42' R	Type P-7T Manhole	Standard	6.11	SOLID PIPE 24" (0.00) (E)	-2.00	
S-02	12+34.18	25.57' R	Type P—7T Manhole	Standard	6.68	SOLID PIPE 24" (0.00) (W) SOLID PIPE 15" (0.45) (S) SOLID PIPE 15" (-0.25) (N)	-2.00	
S-03	12+34.70	2.73' R	Type P-7T Manhole	Standard	7.35	SOLID PIPE 15" (0.00) (N) SOLID PIPE 15" (-0.30) (S)	-1.30	
S-04	13+74.54	25.47' R	Type P—7T Manhole	Standard	7.46	SOLID PIPE 18" (0.00) (N) SOLID PIPE 24" (-1.80) (E)	-3.80	
S-05	15+66.26	26.54' R	Type P-7T Manhole	Standard	7.20	SOLID PIPE 24" (-1.80) (W) SOLID PIPE 18" (0.00) (N)	-3.80	
S-06	18+15.85	26.00' R	Type P-7T Manhole	Standard	7.13	SOLID PIPE 18" (0.00) (N) SOLID PIPE 24" (2.70) (E)	-2.00	
S-07	19+62.12	23.85' R	Type P-7T Manhole	Standard	7.62	SOLID PIPE 24" (2.70) (W) SOLID PIPE 24" (-1.50) (E)	-3.50	
S-07A	20+75.40	25.62' R	Type P–7T Manhole	Standard	7.53	SOLID PIPE 24" (-1.50) (W) SOLID PIPE 24" (1.50) (SE)	-3.50	
S-08	22+43.48	24.71' R	Type P-7T Manhole	Standard	6.96	SOLID PIPE 24" (1.50) (NW) SOLID PIPE 18" (0.00) (NE)	-2.00	
S-8A	2 Inidesk Osto. 4	425- QO 1,46' Rype	7 Manhole (1 or 2—Piece Co	พระta(เนิยมนะ), Round Bo	ttom).08	SOLID PIPE 24" (1.50) (NW) SOLID PIPE 24" (1.50) (SE) SOLID PIPE 15" (0.00) (NE)	-2.00	
S-09	24+79.46	24.88' R	Type P-7T Manhole	Standard	7.34	SOLID PIPE 18" (0.00) (N) SOLID PIPE 24" (-0.50) (SE) SOLID PIPE 18" (1.00) (SW)	-2.50	
S-09A	25+05.36	24.59' R	Type P—7T Manhole	Standard	7.44	SOLID PIPE 24" (-0.50) (NW) SOLID PIPE 24" (2.00) (E)	-2.53	
S-10	26+26.32	25.50' R	Type P-7T Manhole	Standard	7.23	TRENCH (2.00) (W) SOLID PIPE 24" (0.00) (E)	-2.00	
S-11	26+99.27	25.03' R	Type P-7T Manhole	Standard	7.09	TRENCH (0.00) (W) SOLID PIPE 18" (0.00) (N)	-2.00	
S-12	29+00.48	25.12' R	Type P-7T Manhole	Standard	7.07	SOLID PIPE 18" (0.00) (N) TRENCH (2.00) (E)	-2.10	
S-13	31+01.64	25.05' R	Type P-7T Manhole	Standard	7.27	TRENCH (2.00) (W) SOLID PIPE 24" (2.00) (E)	0.00	
S-13A	31+99.51	25.31' R	Type P-7T Manhole	Standard	6.17	SOLID PIPE 24" (2.00) (W) SOLID PIPE 24" (-1.00) (E)	-3.00	
S-14	32+64.93	25.49' R	Type P-7T Manhole	Standard	6.76	SOLID PIPE 24" (-1.00) (W)	-3.00	

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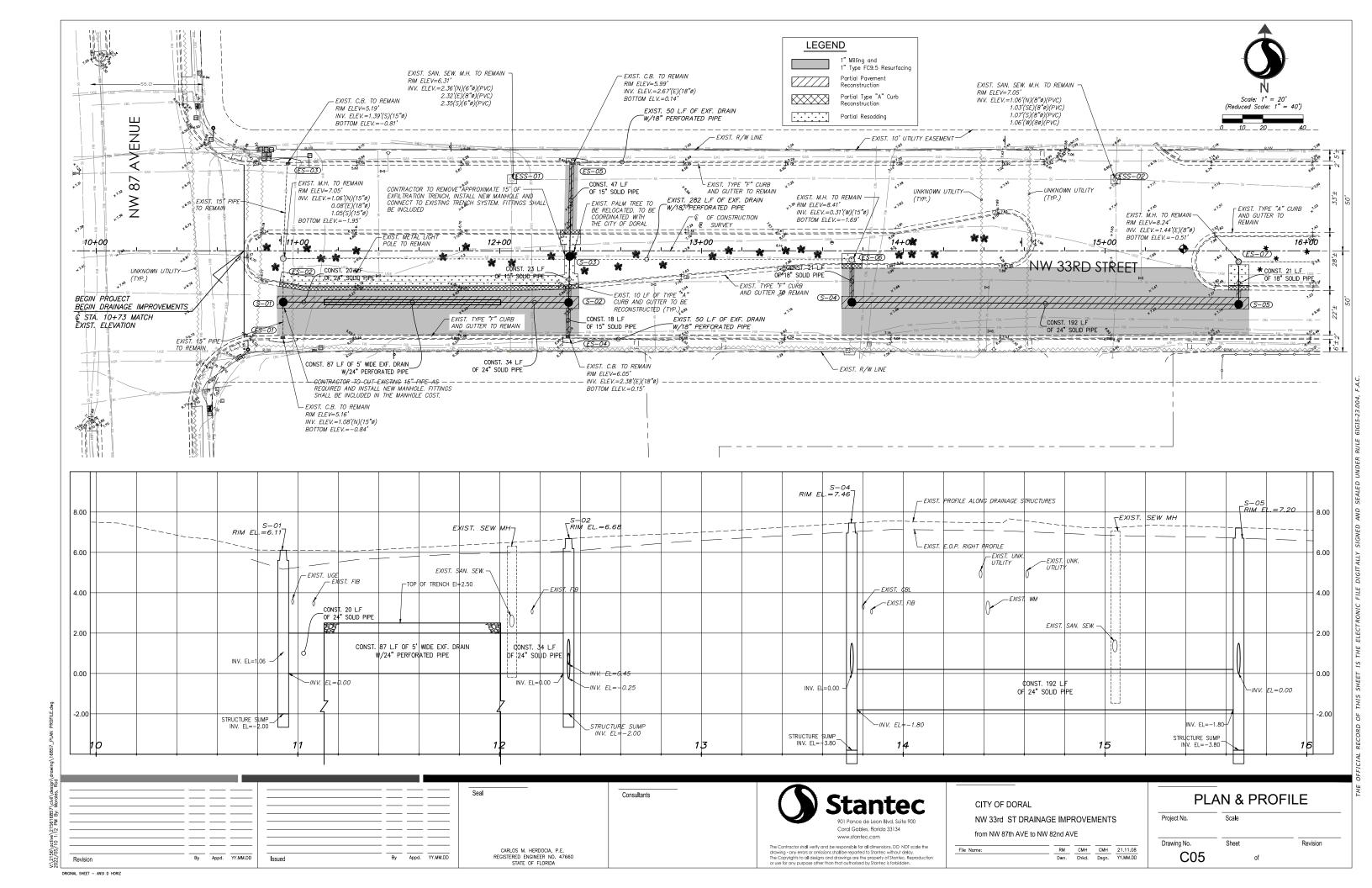
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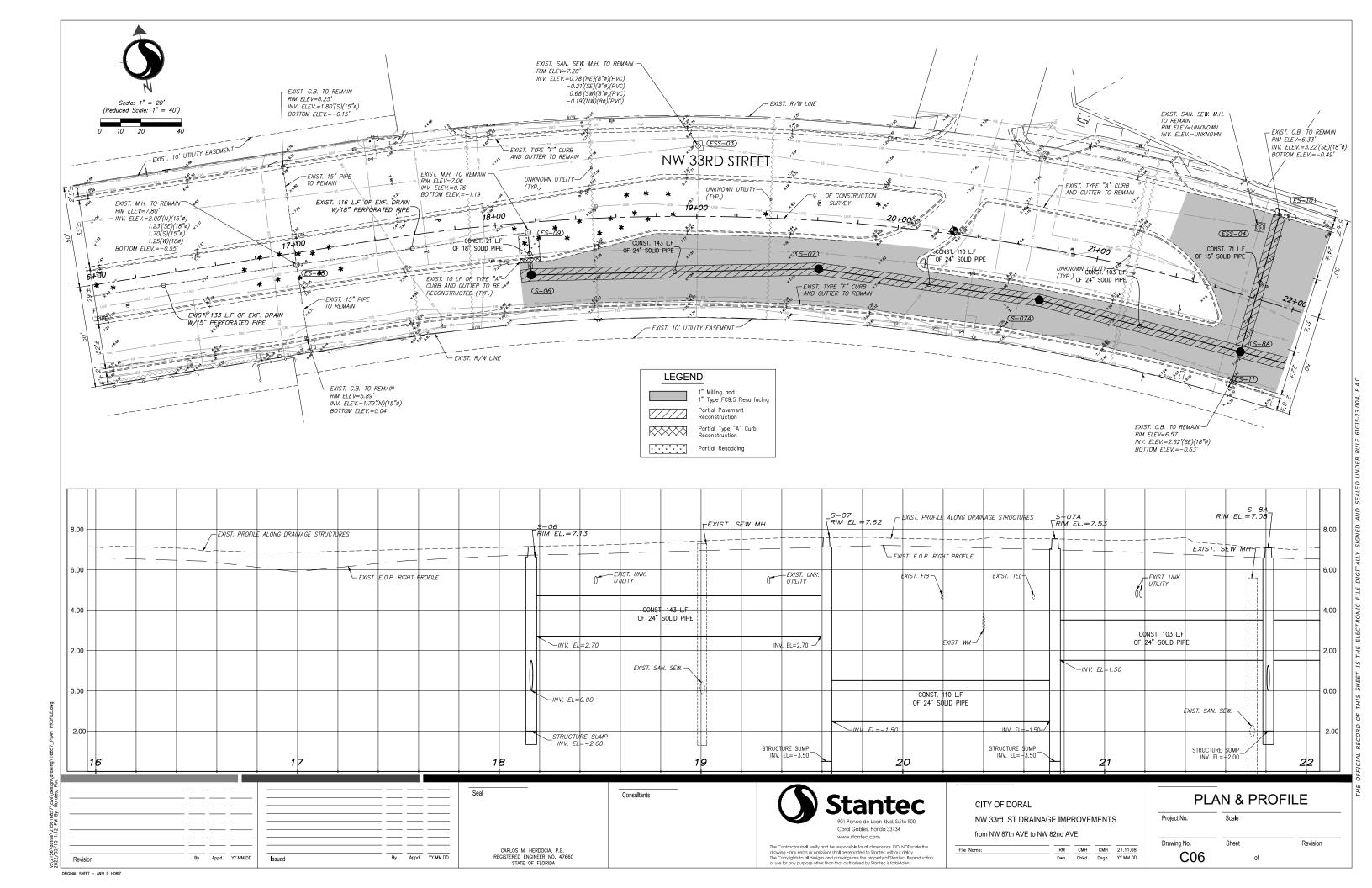
CITY OF DORAL NW 33rd ST DRAINAGE IMPROVEMENTS from NW 87th AVE to NW 82nd AVE

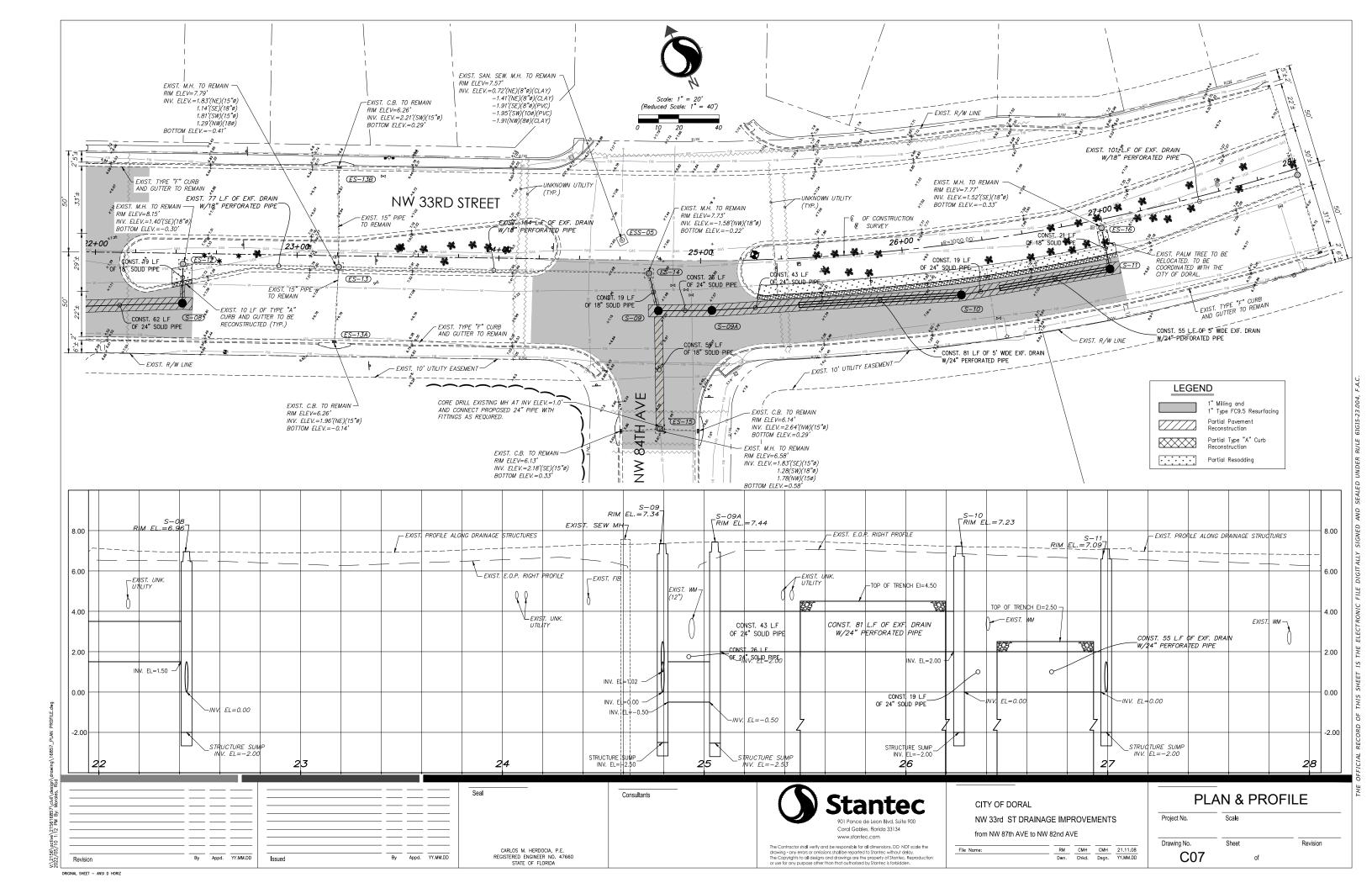
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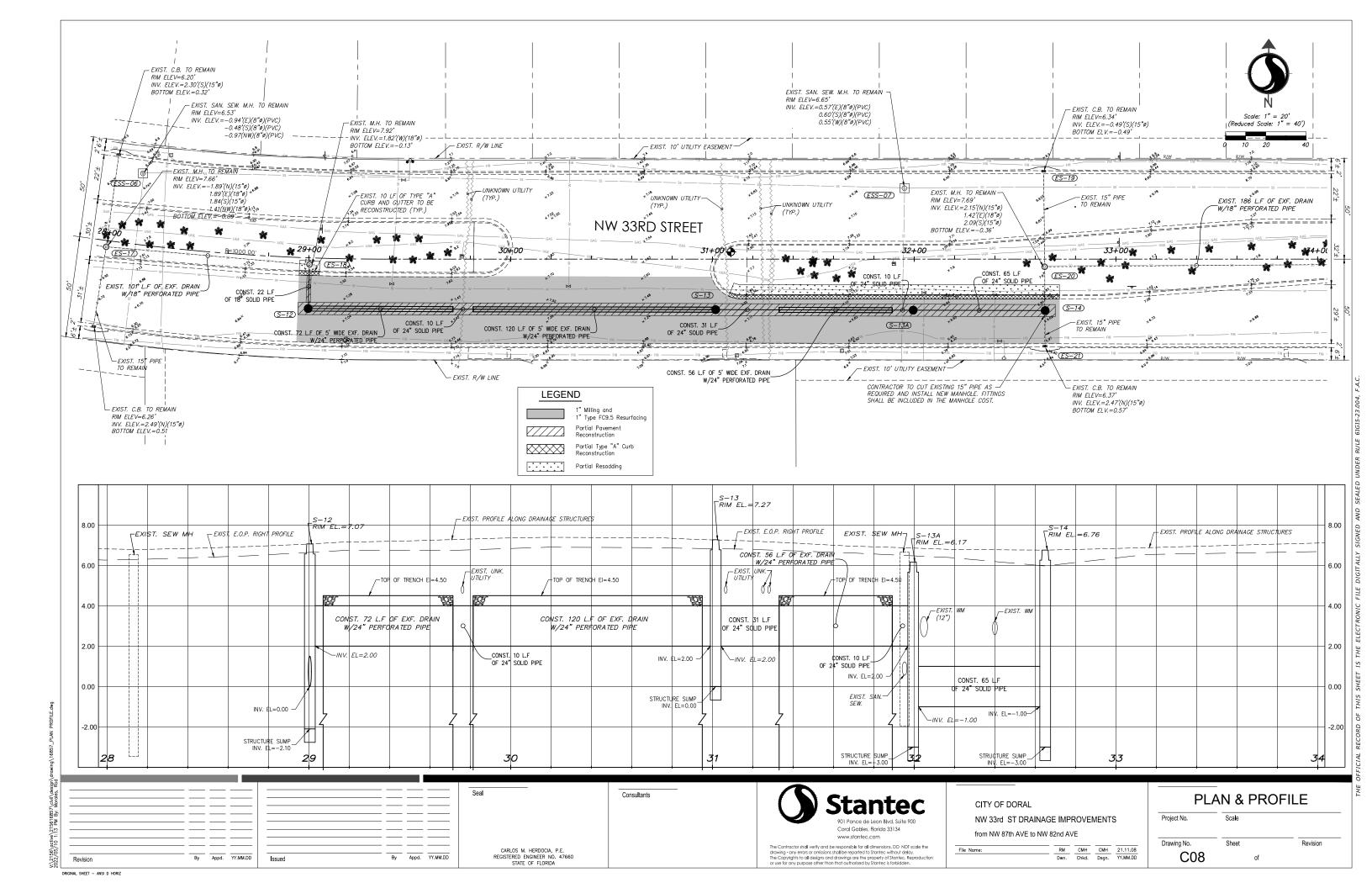
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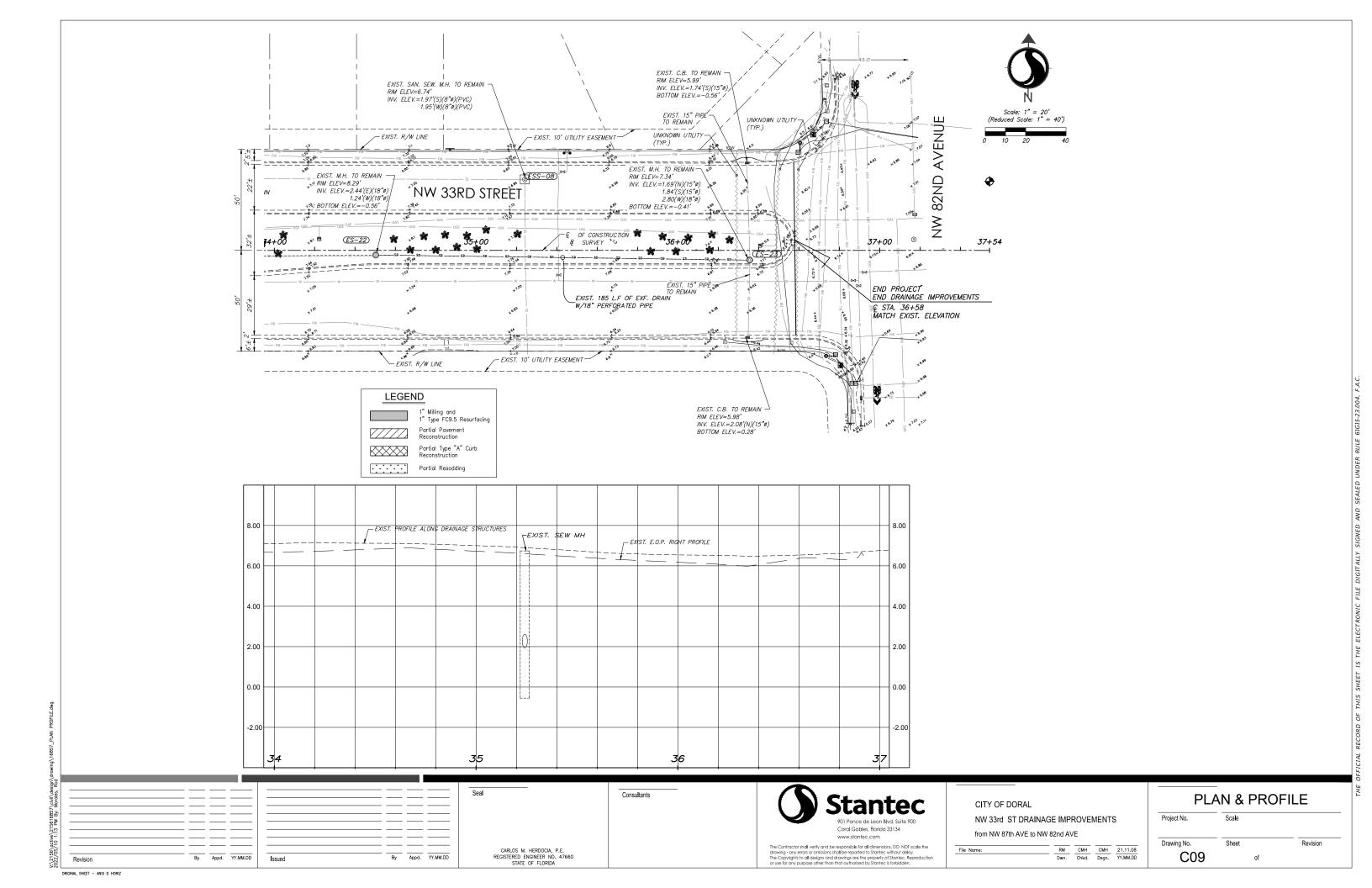
DRAINAGE TABLE Project No. Scale Drawing No. Sheet Revision C04 of

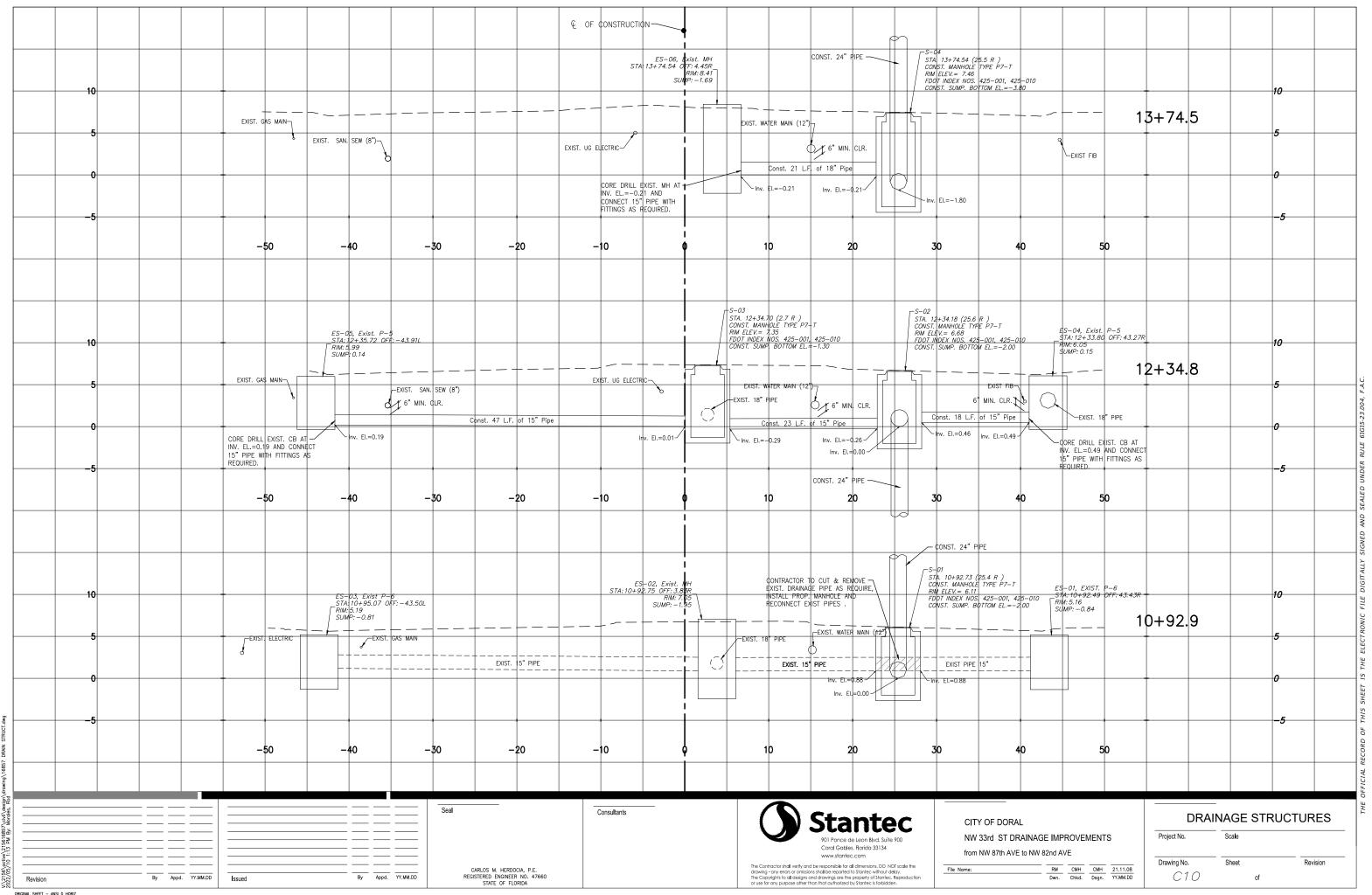


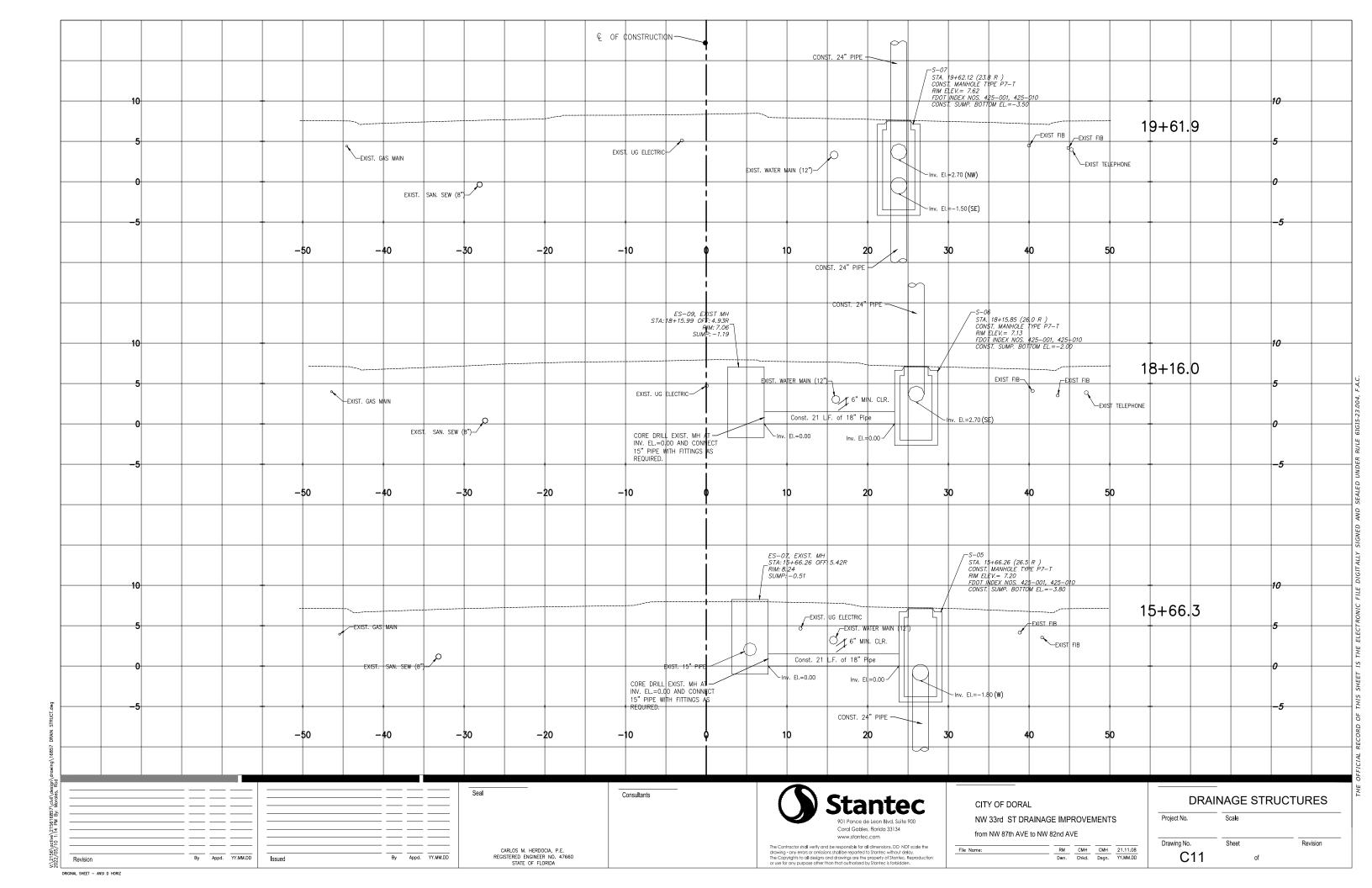


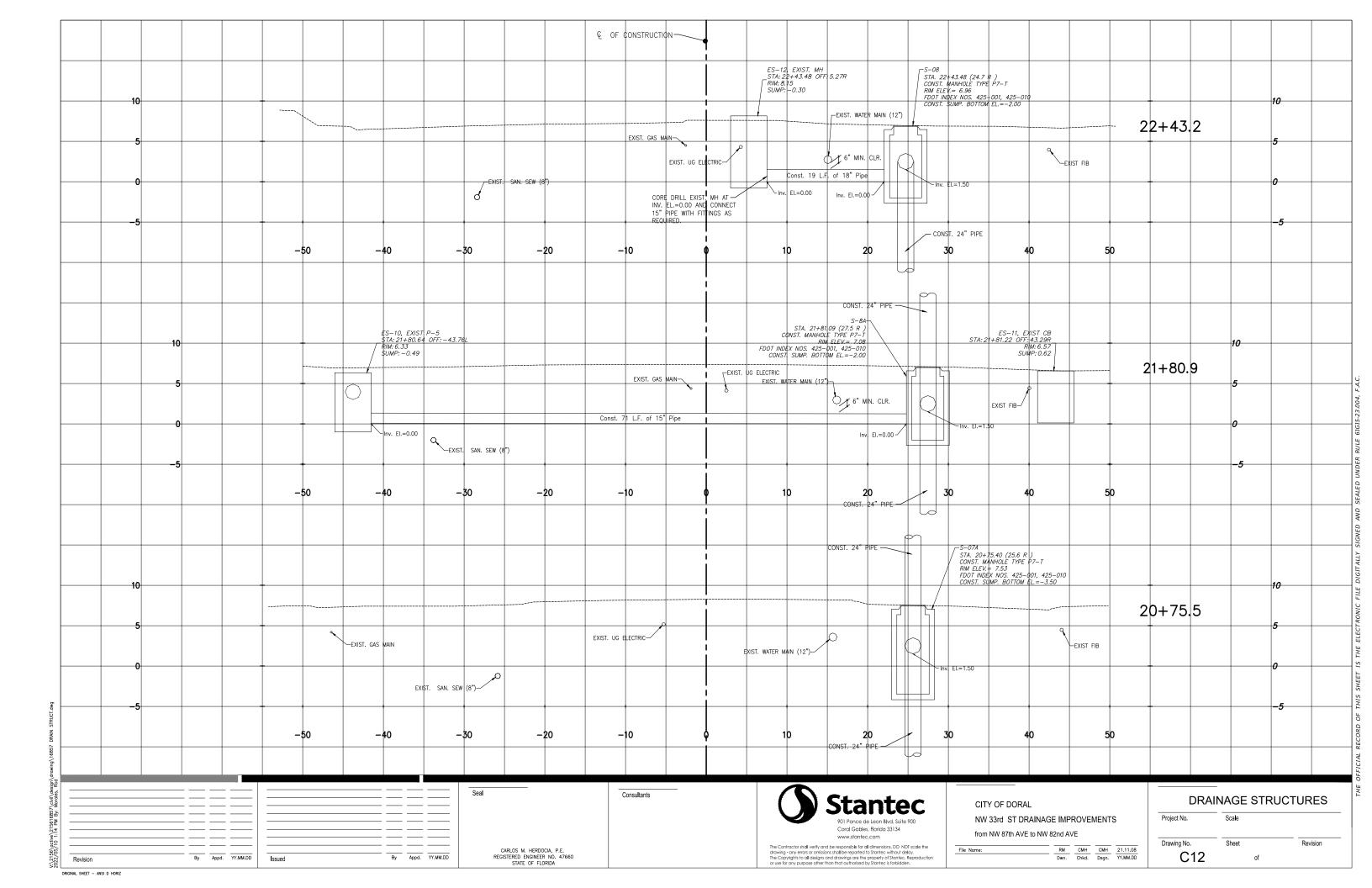


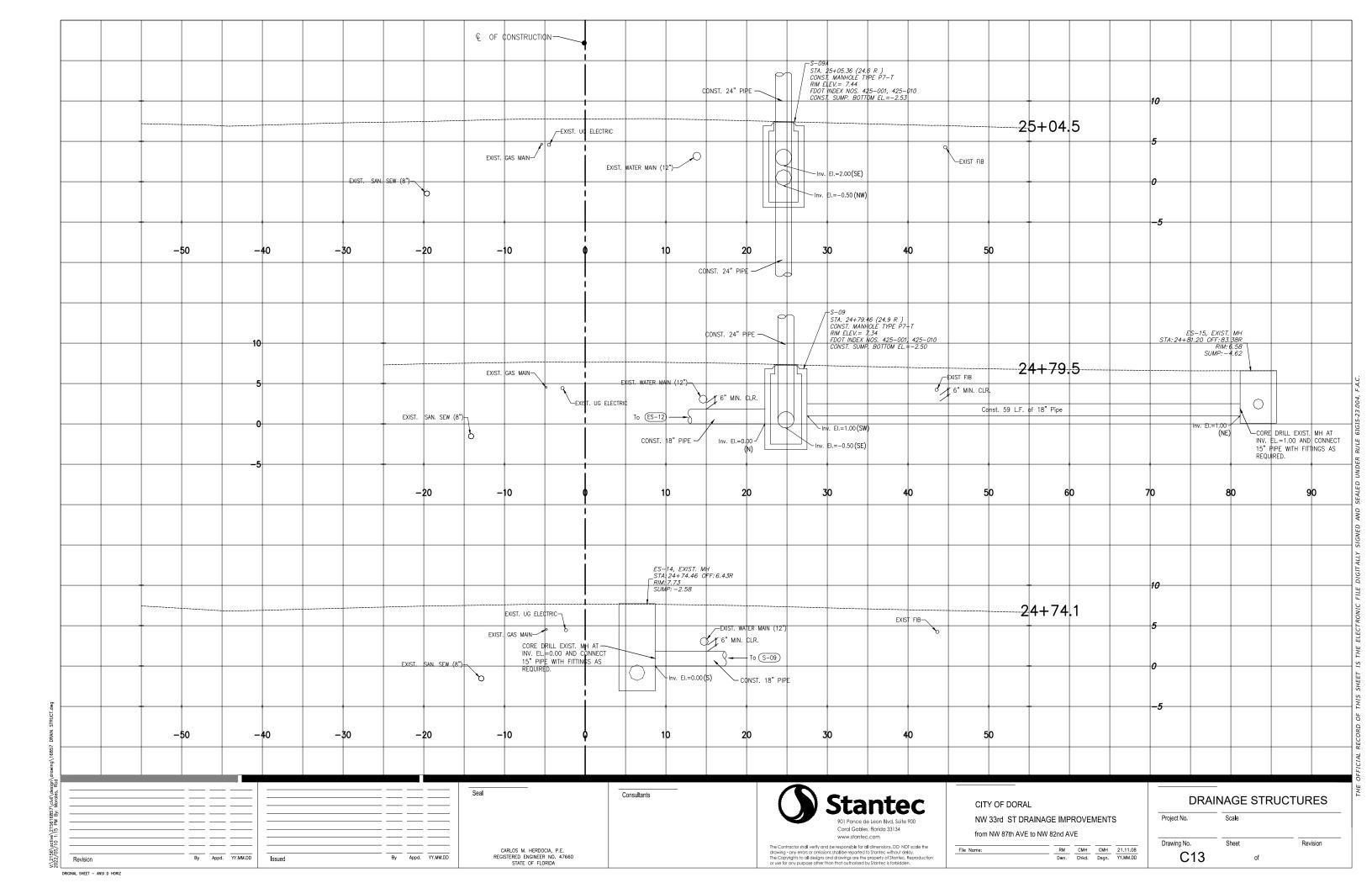


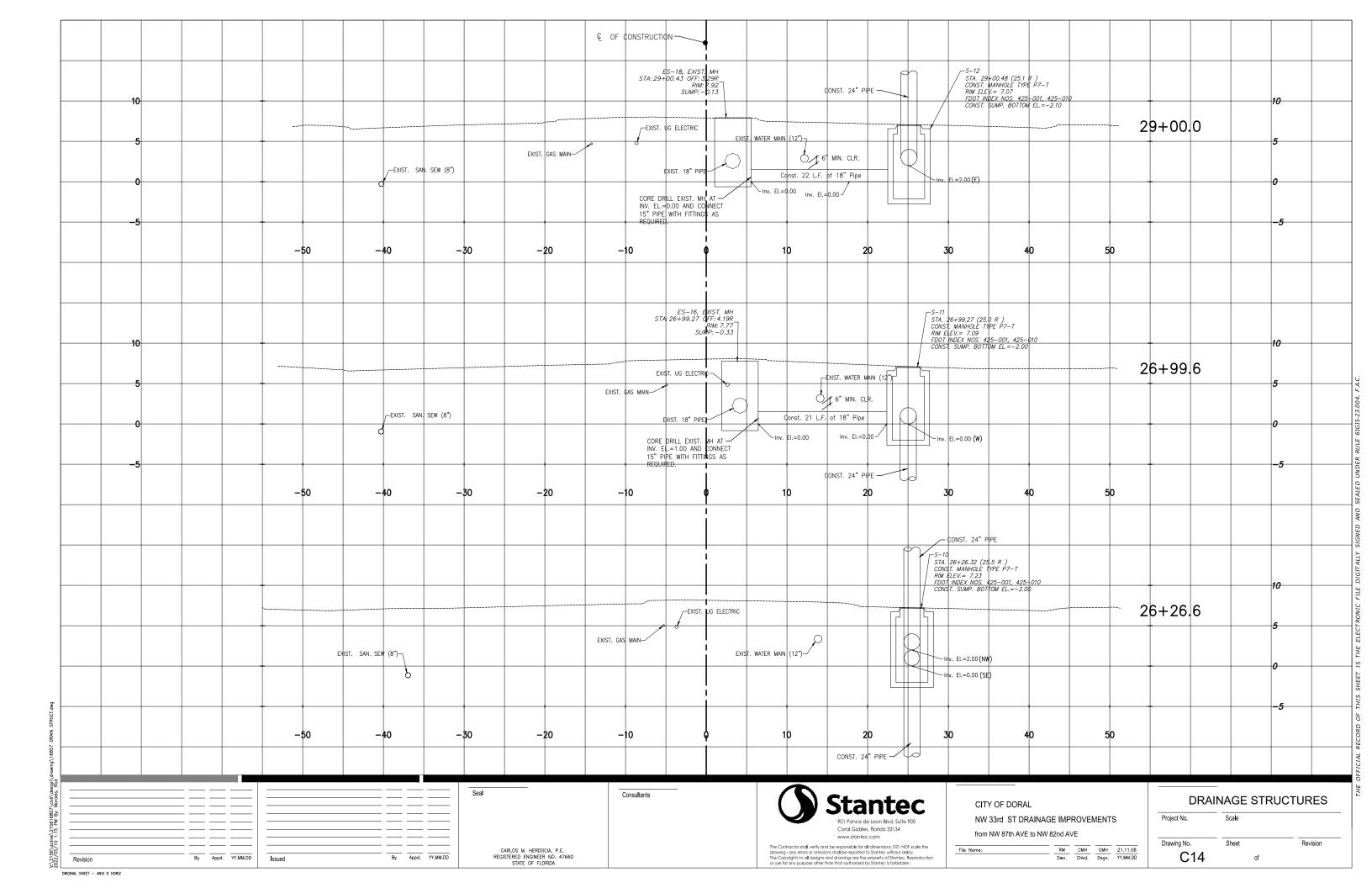


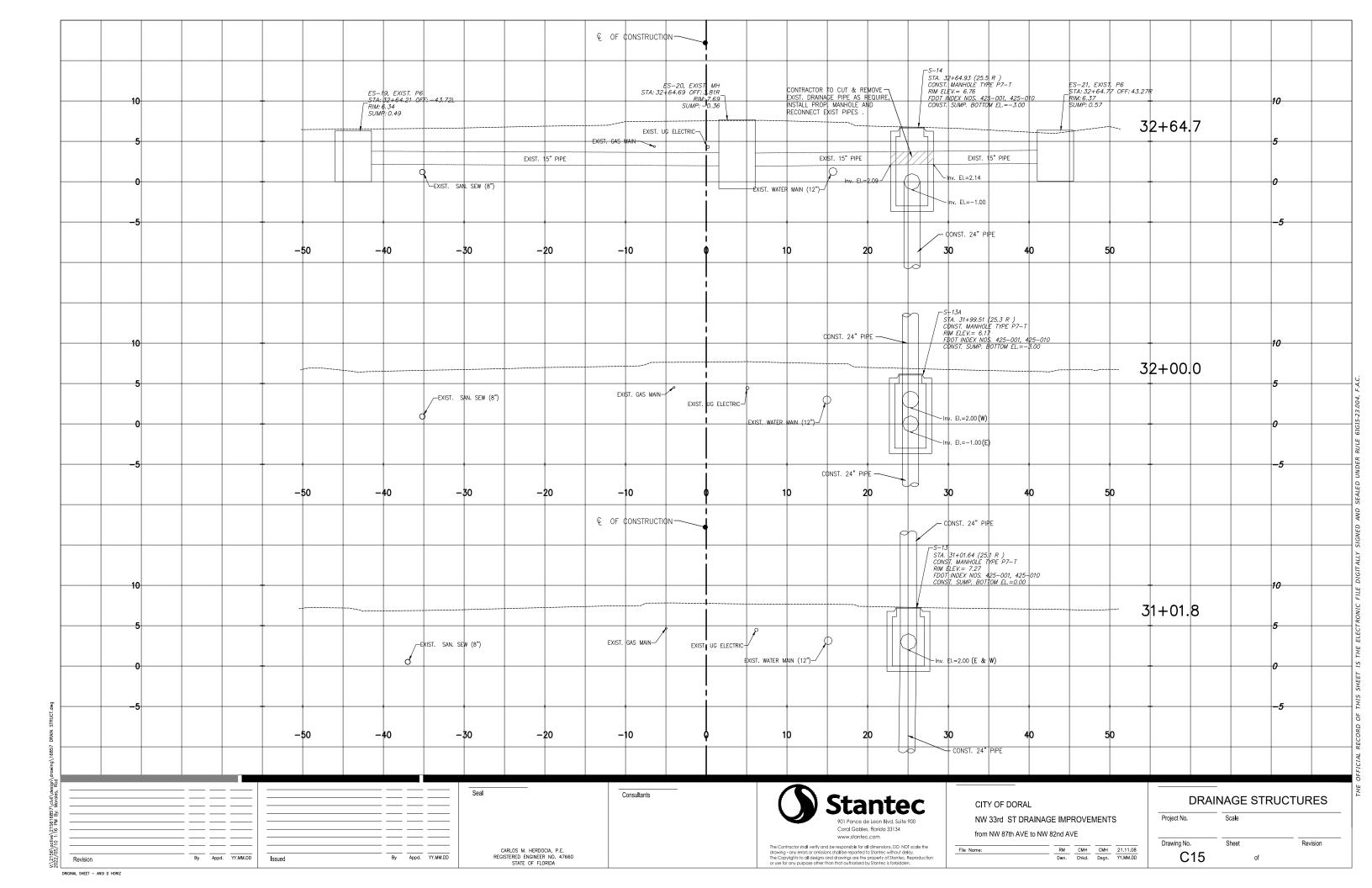


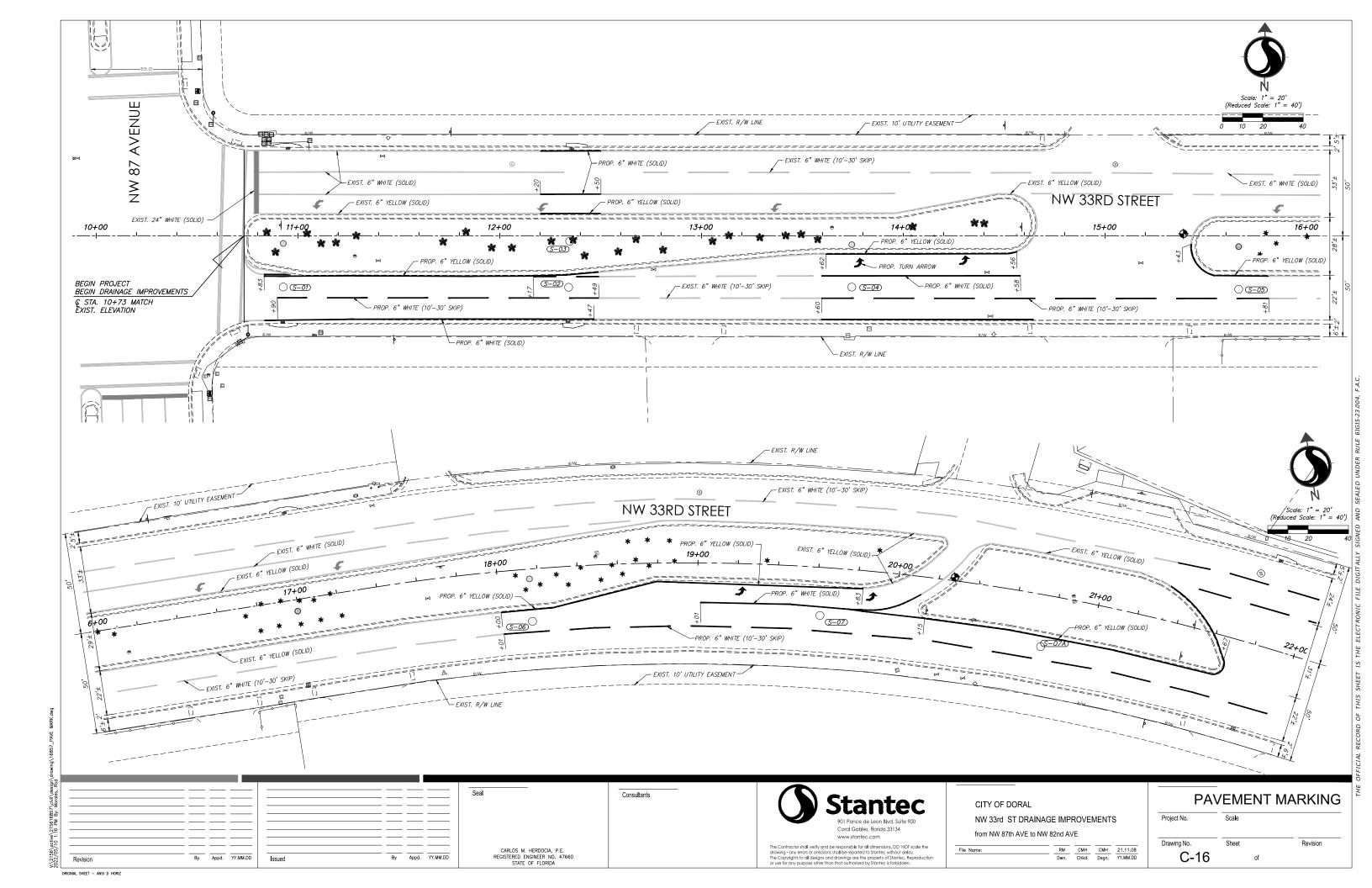


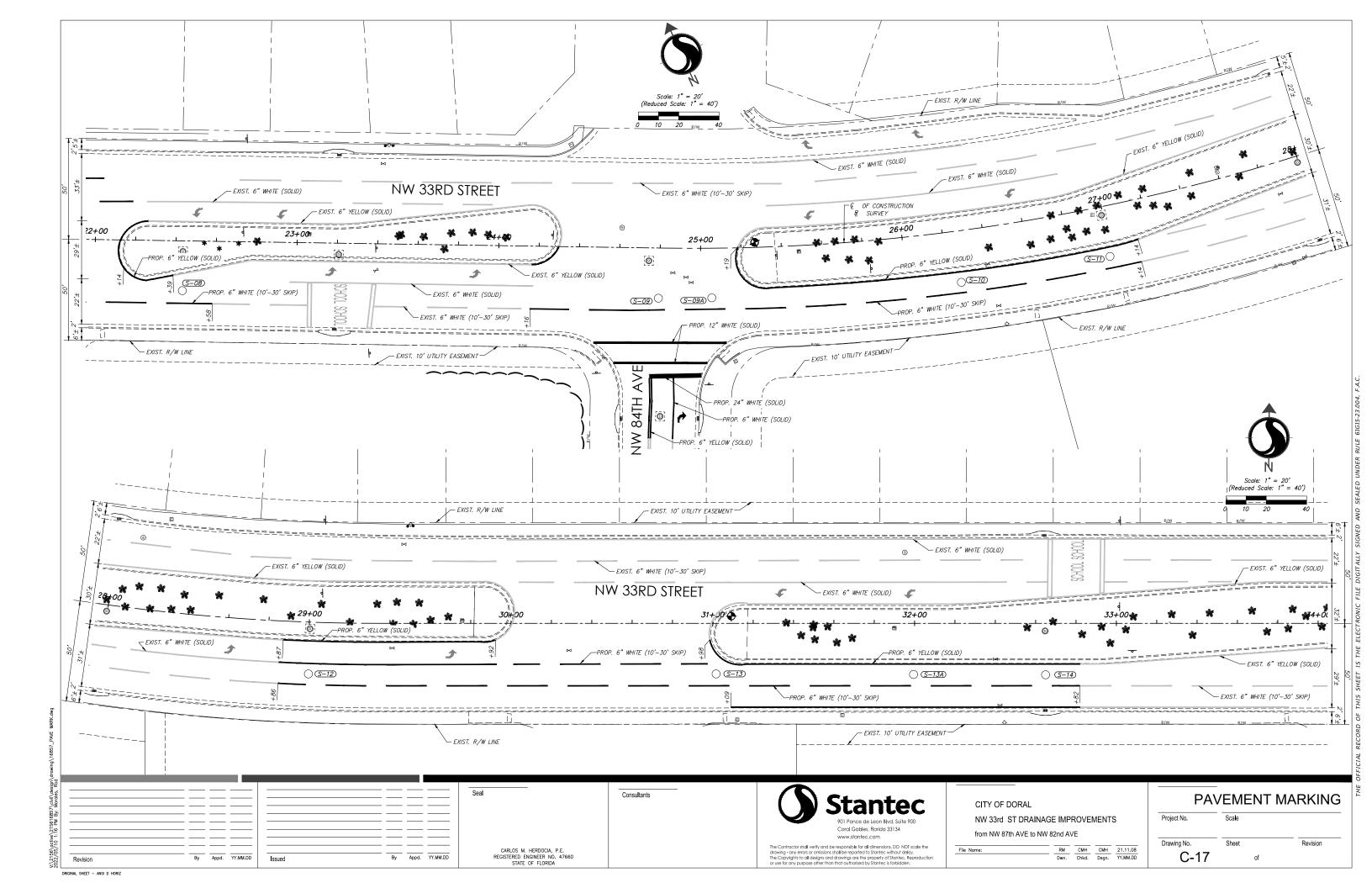


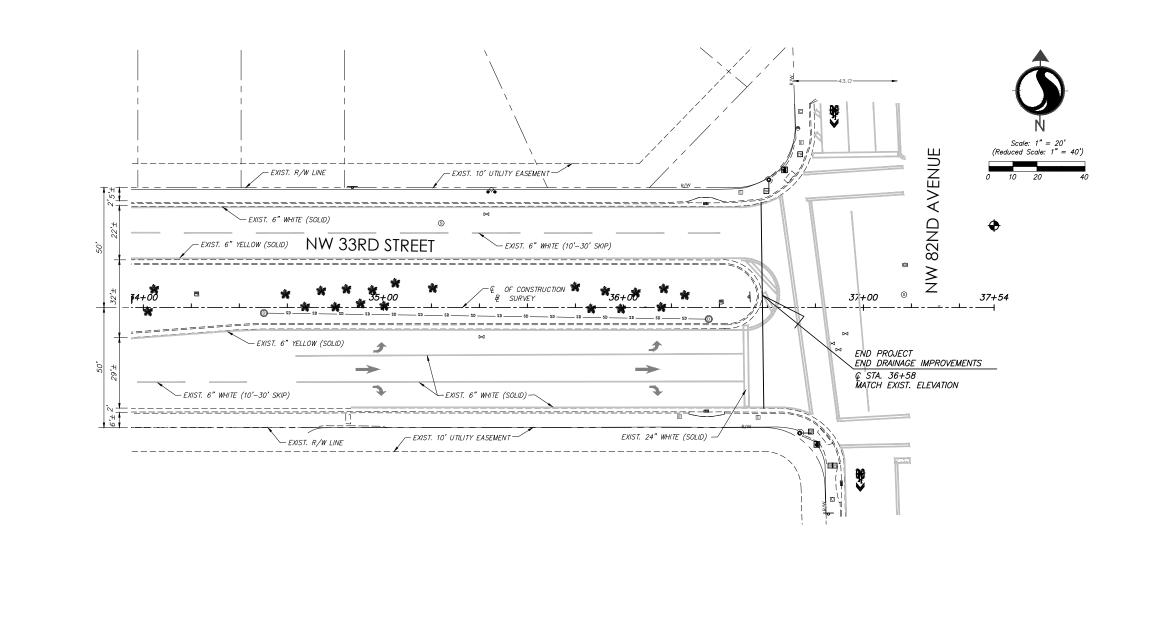












Consultants

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By Appd. YY.MM.DD

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By Appd. YY.MM.DD

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CITY OF DORAL

NW 33rd ST DRAINAGE IMPROVEMENTS

from NW 87th AVE to NW 82nd AVE

RM CMH CMH 21.11.08

Dwn. Chkd. Dsgn. YY.MM.DD

Project No. PavEMENT MARKING
Scale

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Drawing No. Sheet Revision

C-18 of

GENERAL DETAILS

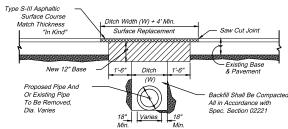
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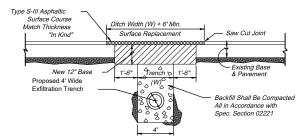
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SEE PLANS

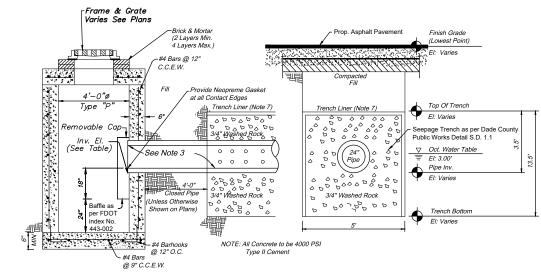
Revision



PAVEMENT RESTORATION **OVER PIPE DETAIL**



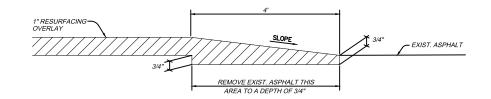
PAVEMENT RESTORATION OVER **EXFILTRATION TRENCH DETAIL**



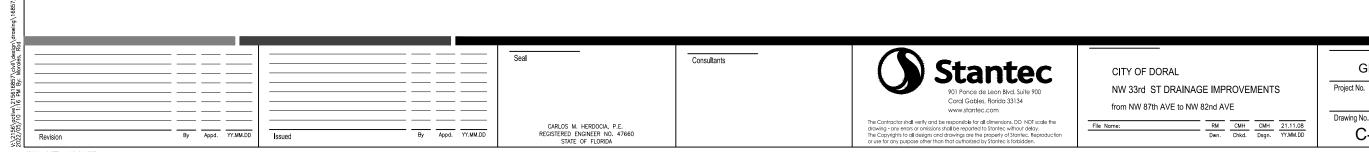
<u>NOTES</u>

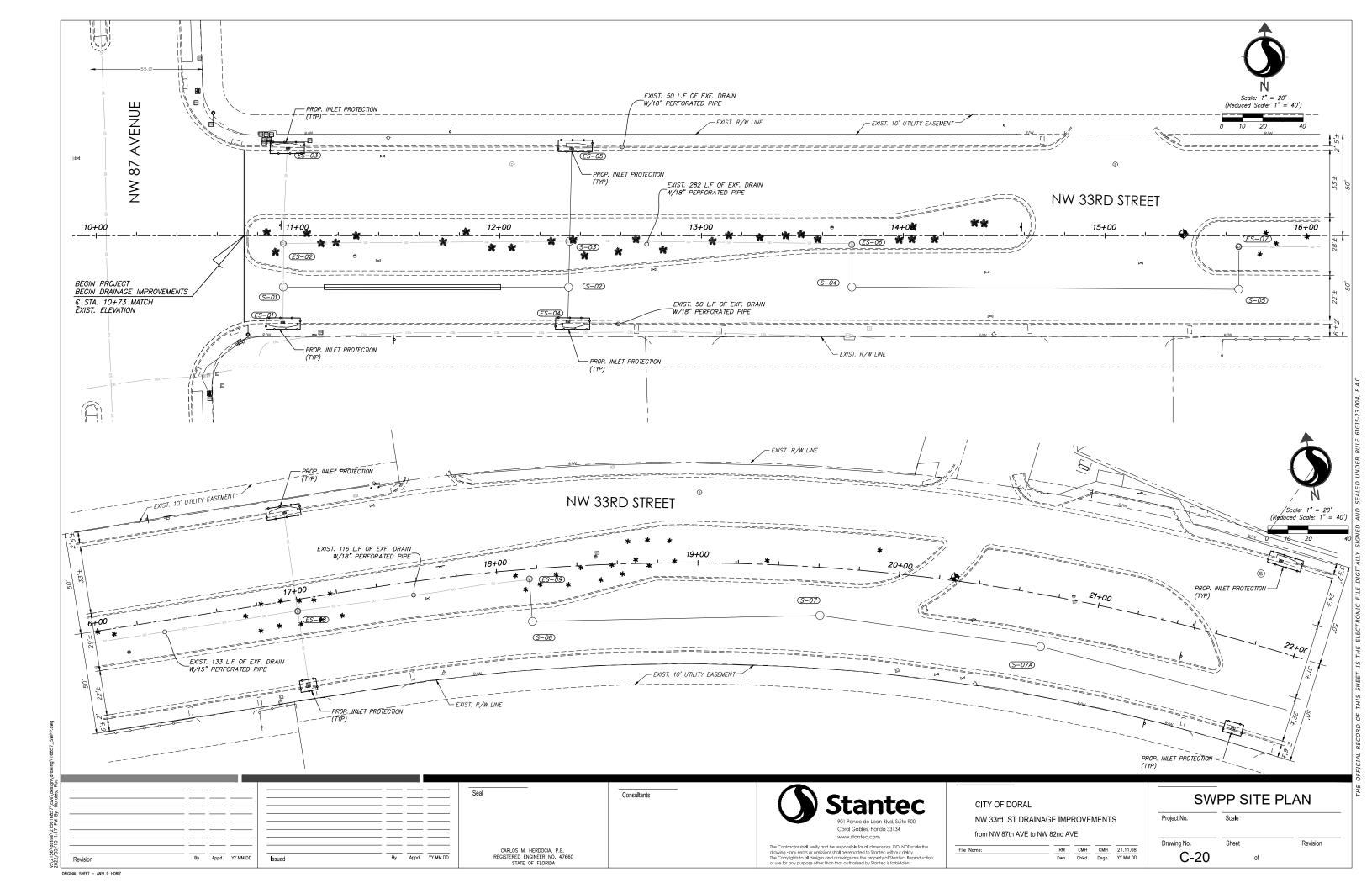
- U.S. Precast Corp. Type "P" 4'-0" Ø Catch Basin(Unless Otherwise Specified)
- 2. Concrete = 4000 P.S.I. at 28-Days, Type II Cement
- 3. Trench Pipe Shall be 24" Slotted HDPE or Approved Equal
- 4. Pipes Shall Terminate 2 Feet from End of Trench or Connect to Additional Catch Basin As Required.
- Cover Pipe Ends With No. 10 Galvanized or Aluminum Screen, Opening No Larger Then 1/2"x1/2".
- Ballast Rock Shall be from Fresh Water Washed Free of Deleterious Matter.
- 7. Sides, Bottom and Top of Trench to be Lined with Filter Fabric Overlap Trench lining moterial a Minimum of Three (3) Feet at Top.

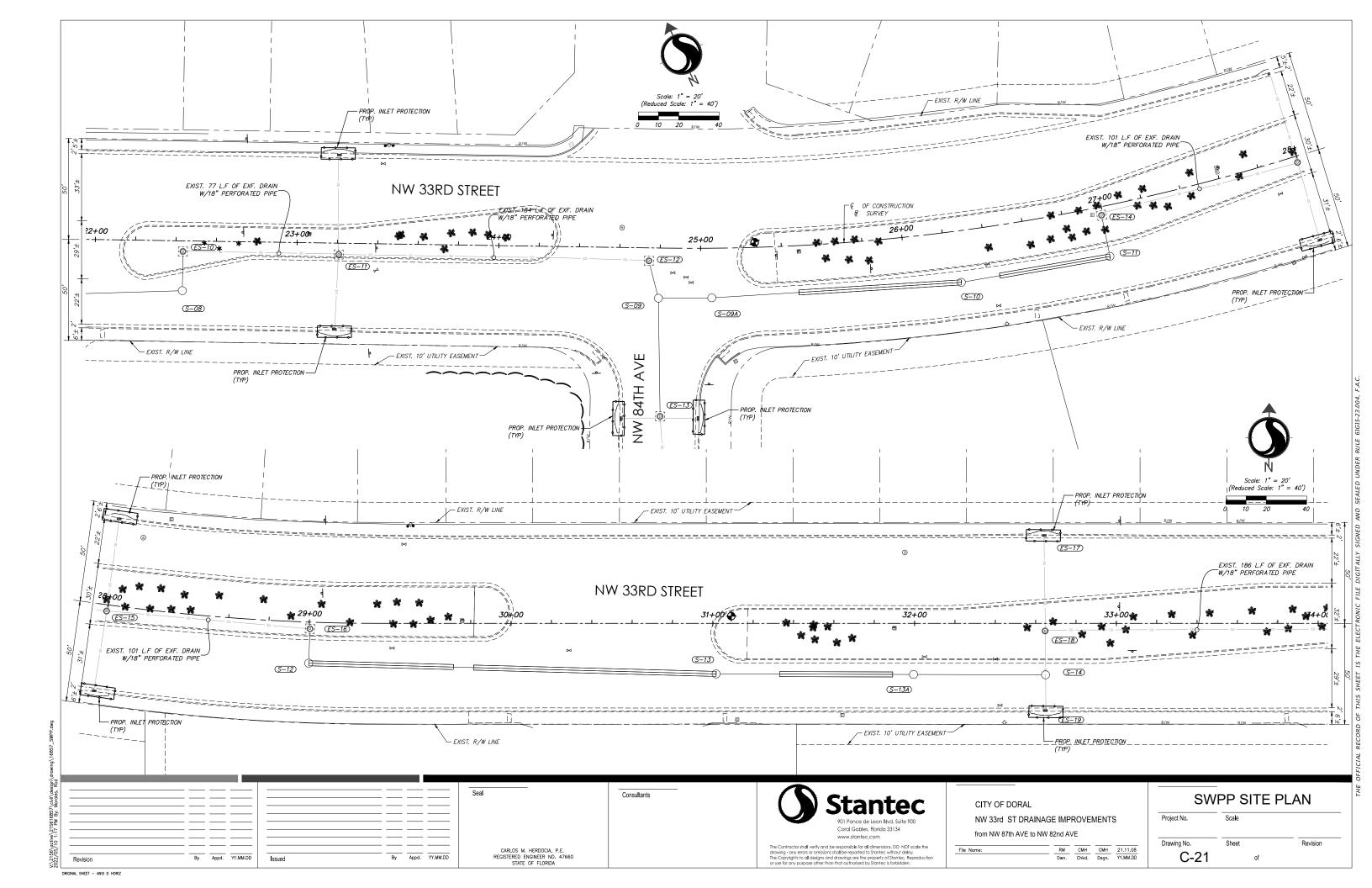
TYPE "P" CATCH BASIN & EXFILTRATION TRENCH DETAIL

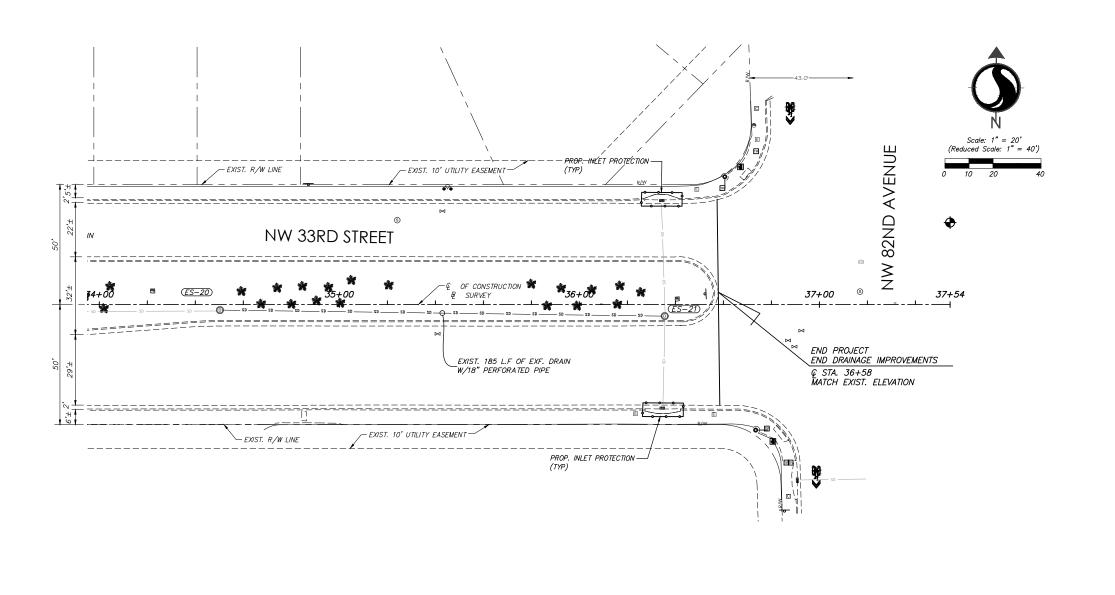


END/BEGINNING RESURFACING DETAIL







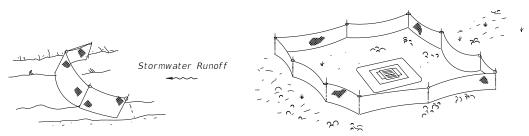


Consultants SWPP SITE PLAN CITY OF DORAL Project No. NW 33rd ST DRAINAGE IMPROVEMENTS 901 Ponce de Leon Blvd. Suite 900 from NW 87th AVE to NW 82nd AVE www.stantec.com Drawing No. The Contractor shall weifly and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay, The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.
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 21.11.08

 Dwn.
 Chkd.
 Dsgn.
 YY.MM.DD
 CARLOS M. HERDOCIA, P.E. REGISTERED ENGINEER NO. 47660 STATE OF FLORIDA C-22 By Appd. YY.MM.DD By Appd. YY.MM.DD of Revision

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SILT FENCE DETAIL



Type III Silt Fence

By Appd. YY,MM.DD

Type III Silt Fence Protection Around Ditch Bottom Inlets.

Seal

By Appd. YY.MM.DD

CARLOS M. HERDOCIA, P.E.

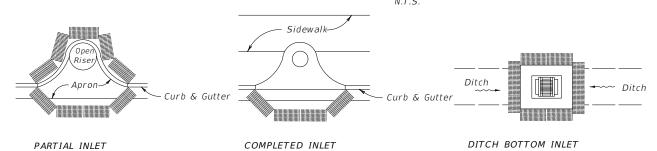
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REGISTERED ENGINEER NO. 47660

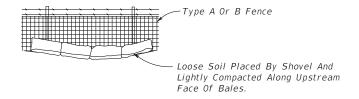
Notes:

- Spacing for Type III Fence to be in accordance with Chart I, Sheet 1 of 3 and ditch installations at drainage structures Sheet 2 of 3 per FDOT Standard Index 102.
- 2. Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.

SILT FENCE APPLICATIONS



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



BALES BACKED BY FENCE N.T.S.

STORM WATER POLLUTION PREVENTION PRACTICES: (FOR PROJECTS OF 0.5 ACRE OR MORE

- 1. TREE PROTECTION AND PRUNING SHALL BE ACCOMPLISHED AS DETAILED IN SPECIAL PROVISIONS, THE CONSTRUCTION PLANS, AND OR PER TREE ORDINANCE 12636.
- 2. THE STORM WATER POLLUTION PREVENTION PLAN, SWPPP, SUBMITTED TO PUBLIC WORKS, SHALL DESCRIBE IN DETAIL HOW THE CONSTRUCTION EFFORT WILL BE PHASED WITH REGARDS TO MINIMIZING EROSION PROBLEMS BY THE USE OF TEMPORARY AND PERMANENT EROSION CONTROL MEASURES, FOR THE VARIOUS SEQUENCES OF CONSTRUCTION OPERATIONS. ANY MODIFICATIONS MUST BE APPROVED BY THE CITY OF DORAL , DEPARTMENT OF PUBLIC WORKS.
- 3. ENVIRONMENTAL CONTROL FEATURES AS PROVIDED IN THE SWPPP, ARE TO BE INSTALLED AT ALL AREAS OF EXCAVATION OR FILL FOR DRAINAGE SYSTEM, OR STRUCTURE CONSTRUCTION PRIOR TO SUCH EXCAVATION OR FILL. INLET ENTRANCES ARE ALSO TO BE PROTECTED FROM SILTATION.
- 4. ALL ENVIRONMENTAL CONTROL FEATURES ARE TO BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT IN ACCORDANCE WITH N.P.D.E.S. REQUIREMENTS. THE CONTRACTOR MUST INSURE THAT ALL EROSION CONTROL FEATURES FUNCTION PROPERLY AT ALL TIMES.
- 5. ALL EROSION AND MATERIAL DEPOSITS MUST BE CONTAINED WITHIN THE PROJECT LIMITS.
- 6. ANY DAMAGED OR INEFFECTIVE ROCK BAGS ARE TO BE REPLACED WITH NEW ONES. THE LOCATION OF ROCK BAGS INSTALLATION IS AS MENTIONED IN THE SWPPP PLANS. THE PROJECT ENGINEER MAY SPECIFY OTHER AREAS AS NECESSARY.
- 7. DITCH BOTTOM INLETS SHALL BE PROTECTED FROM SEDIMENT INTAKE UNTIL PROJECT IS COMPLETE. ELEVATION OF GROUND OUTSIDE INLET TOP SHALL NOT BE HIGHER THAN INLET TOP. ROCK BAGS SHALL BE INSTALLED AROUND INLET TOP. COMPLETED INLETS IN PAVED AREAS SHALL ALSO BE PROTECTED WITH ROCK BAGS TO PREVENT SEDIMENT INTAKE.
- 8. CURB INLETS ALSO SHALL BE PROTECTED FROM SEDIMENT INTAKE UNTIL THE PROJECT IS COMPLETE. ALL EXPOSED SLOPED MATERIAL ADJACENT TO INLET. SHALL BE COVERED WITH EROSION CONTROL MATTING WITH OUTER LIMITS PROTECTED BY ROCK BAGS.
- 9. STOCKPILED MATERIAL SHALL NOT BE LEFT IN EROSION PRONE AREAS UNLESS PROTECTED BY COVER OR ROCK BAGS.
- 10. INSPECTION OF EROSION CONTROL MEASURES AND CONDITION OF ADJACENT PROPERTIES, SHALL BE PERFORMED DAILY BY THE CONTRACTOR'S REPRESENTATIVE AND THE PROJECT ENGINEER. DEFICIENCIES SHALL BE NOTED AND CORRECTED.
- 11. ANY OFFSITE SEDIMENT DISCHARGE TO A MUNICIPAL SEPARATE STORM WATER SYSTEM ARISING FROM THE CONTRACTOR'S ACTIVITIES IS NOT ALLOWED. REFER TO PUBLIC WORKS DEPARTMENT BULLETIN No. 25 and City Ordinance 13081.

B GENERAL

- 12. THE USE OF SANITARY SEWERS, FRENCH DRAINS, COVER DITCHES AND/OR ROCK DRAINS FOR THE DISPOSAL OF WASTEWATER IS EXPRESSLY PROHIBITED.. REFER TO PUBLIC WORKS DEPARTMENT BULLETIN No. 25 and City Ordinance 13081.
- * NPDES NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM Authorized by NPDES permit FLS 000002. BMP Best Management Practice.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) CHECKLIST

- A. SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS:
- 1. CLEAR & GRUBBING
- 2. INSTALL DRAINAGE STRUCTURES
- 3. STABILIZATION
- 4. BASE PREPARATION
- 5. ASPHALT APPLICATION
- 6. PLACEMENT OF ROCK BAGS AROUND INLETS
- 7. PLACEMENT OF ROCK BAGS AROUND MANHOLES
- 8. APPLICATION OF FRICTION COURSE A.C.
- 9. INSTALLATION OF STREET SIGNING
- 10. PAVEMENT MARKING
- 11. REMOVE ROCK BAGS

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12. CLEAN ALL CONSTRUCTION DEBRIS FROM CONSTRUCTION SITE

- 1. APPROVED STATE, LOCAL PLANS OR STORM WATER PERMITS.
- 2. ALL OF THE CONTROLS SHALL BE MAINTAINED AT ALL TIMES.
- 3. ALL CONTROLS SHALL BE INSPECTED DAILY.
- 4. APPLY FERTILIZERS AND PESTICIDES ACCORDING TO STANDARD SPECIFICATIONS, DESIGN AND SPECIAL PROVISIONS.
- 5. REPORT NON-STORM WATER DISCHARGE (INCLUDING SPILL) (305) 416-1200.
- 6. VISIT www.dep.state.fl.us/water/stormwater/npdes/

NOTES FOR SYNTHETIC BALES OR BALE TYPE BARRIERS

- 1. TYPE I AND II SYNTHETIC BARRIER SHOULD BE SPACED IN ACCORDANCE WITH CHART 1, SHEET 1 PER INDEX 102.
- 2. BALES SHALL BE ANCHORED WITH 2-1" X 2" (OR 1" DIA.) X 4' WOOD STAKES. STAKES OF OTHER MATERIAL OR SHAPE PROVIDING EQUIVALENT STRENGTH MAY BE USED IF APPROVED BY THE ENGINEER. STAKES OTHER THAN WOOD SHALL BE REMOVED UPON COMPLETION OF THE PROJECT.
- 3. RAILS AND POSTS SHALL BE 2" X 4" WOOD. OTHER MATERIALS PROVIDING EQUIVALENT STRENGTH MAY BE USED IF APPROVED BY THE ENGINEER.
- 4. ADJACENT BALES SHALL BE BUTTED FIRMLY TOGETHER.
- 5. WHERE USED IN CONJUNCTION WITH SILT FENCE, BALES SHALL BE PLACED ON THE UPSTREAM SIDE OF THE FENCE.



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CITY OF DORAL

NW 33rd ST DRAINAGE IMPROVEMENTS
from NW 87th AVE to NW 82nd AVE

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 21.11.08

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 SWPP DETAILS

 Project No.
 Scale

 Drawing No.
 Sheet
 Revision

 C-23
 of

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ORIGINAL SHEET - ANSI D HORIZ

Revision

THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE DESIGN STANDARDS, AND OTHER SHEETS OF THESE CONSTRUCTION PLANS. THE FIRST SHEET OF THE CONSTRUCTION PLANS KEY SHEET CONTAINS AN INDEX TO THE OTHER SHEETS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN INCLUDES SEVERAL ITEMS: THIS NARRATIVE DESCRIPTION, THE DOCUMENTS REFERENCED IN THIS NARRATIVE, THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN REQUIRED BY SPECIFICATION SECTION 104, AND REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION.

- A. THE FOLLOWING NARRATIVE AND REFERENCED DOCUMENTS,
- B. THE CONTRACTOR'S APPROVED EROSION AND SEDIMENT CONTROL PLAN
- C. REPORT OF INSPECTIONS MADE DURING CONSTRUCTION.

1.0 SITE DESCRIPTION

1.A. NATURE OF CONSTRUCTION ACTIVITY:

THE PLAN DELINEATED IN THIS SWPPP IS FOR DRAINAGE IMPROVEMENTS, MILLING AND RESURFACING, PAVEMENT MARKING AND SIDEWALK REPAIRS.

1.B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

IN THE SECTION 104 EROSION & SEDIMENT CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A DETAIL SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES DESCRIBED BELOW. UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS THE EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER

INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE CLEARING AND GRUBBING OTHER AREAS OF THE SITE.

- 1. CLEARING AND GRUBBING
- 2. DRAINAGE IMPROVEMENTS
- 3. CURB AND GUTTER, SIDEWALK, DRIVEWAY IMPROVEMENTS
- 4. ASPHALT MILLING AND RESURFACING

1.C. SITE MAP

THE SHEETS CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAPS. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW. THE SHEET NUMBERS FOR THE PLANS REFERENCED IN THIS SECTION ARE INDENTIFIED ON THE KEY SHEET OF THE PLANS.

- * DRAINAGE PATTERNS: THE DRAINAGE BASIN DIVIDES AND FLOW DIRECTIONS ARE SHOWN ON THE DRAINAGE MAP (INCLUDED IN THE DRAINAGE REPORT). THE FLOW ARROWS REPRESENT THE FLOW
- * APPROXIMATE SLOPES: THE PLANS MAINTAINS A 2% TYPICAL CROSS SLOPE AS INDICATED ON THE TYPICAL SECTION.
- * AREAS OF SOIL DISTURBANCE: THE LIMITS OF SOIL DISTURBANCE ARE SHOWN ON THE TYPICAL SECTION SHEETS AND PLANS SHEETS.
- * AREAS NOT TO BE DISTURBED: ENTIRE PROJECT AREA TO BE DISTURBED.

By Appd. YY,MM.DD

* LOCATIONS OF TEMPORARY CONTROLS: ROCK BAGS WILL BE LOCATED AROUND ALL EXISTING AND PROPOSED INLETS; TURBIDITY BARRIERS WILL BE LOCATED AT ANY BODIES OF WATER AFFECTED BY THIS PROJECT.

- * LOCATIONS OF PERMANENT CONTROLS: PERMANENT FEATURES ARE SHOWN ON THE CONSTRUCTION PLANS, WHICH GENERALLY CONSIST OF SOD, ASPHALT, CONCRETE, AND DRAINAGE STRUCTURES.
- * SURFACE WATERS: NONE
- * WETLAND AREAS: NONE
- * AREAS TO BE STABILIZED: NONE

2.0 CONTROLS

2.A. EROSION AND SEDIMENT CONTROLS:

IN THE SECTION 104 FROSION AND SEDIMENT CONTROL PLAN THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES BASED ON THE CONTRACTOR'S TRAFFIC CONTROL PLAN. THE FOLLOWING RECOMMENDED GUIDELINES ARE BASED ON THE TRAFFIC CONTROL PLAN (TCP) OUTLINED IN THESE CONSTRUCTION PLANS. THE CONTRACTOR MAY CHOOSE TO ACCEPT THE FOLLOWING GUIDELINES OR MODIFY THEM IN THE SECTION 104 EROSION CONTROL PLAN, SUBJECT TO APPROVAL OF THE ENGINEER. AS WORK PROGRESSES, THE CONTRACTOR SHALL MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATION, CHANGES IN CONSTRUCTION ACTIVITES AND THE NEED FOR BETTER PRACTICES.TO LIMIT THE TRANSPORT OF SEDIMENT FROM THE CONSTRUCTION AREA, THE CONTRACTOR, SHALL MINIMIZE THE SOIL AREAS EXPOSED AT ANY GIVEN TIME AND SHALL STABILIZE AREAS THAT WILL REMAIN IDLE FOR MORE THAN 7 DAYS. THE CONTRACTOR SHALL UTILIZE GRADING TECHNIQUES TO DIRECT RUNOFF TO AREAS WITH THE PROPER EROSION CONTROL FEATURES INSTALLED AND AWAY FROM OPEN WATER OR OTHER SENSITIVE AREAS ADJACENT TO THE WORK SITE.

2.A.1 STABILIZATION PRACTICES:

IN THE SECTION 104 EROSION & SEDIMENT CONTROL PLANS, THE CONTRACTOR SHALL DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. THE CONTRACTOR SHALL INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 14 DAYS. IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED THE STABILIZATION PRACTICES PROPOSED BY THE CONTRACTOR SHALL INCLUDE AT LEAST THE FOLLOWING:

PERMANENT:

- * ASPHALT OR CONCRETE SURFACE.
- * S0D.

2.A.2 STRUCTURAL PRACTICES:

IN THE SECTION 104 EROSION & SEDIMENT CONTROL PLANS, THE CONTRACTOR SHALL DESCRIBE THE STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. ALL SEDIMENTS CONTROLS SHALL BE IN PLACE BEFORE ANY SOIL DISTURBING ACTIVITY UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES PROPOSED BY THE CONTRACTOR SHALL INCLUDE AT LEAST THE FOLLOWING:

- * ROCK BAGS IN ACCORDANCE WITH DESIGN STANDARD 102 AND SPECIFICATION SECTION 104.
- * TURBIDITY BARRIER IN ACCORDANCE WITH DESIGN STANDARD 103 AND SPECIFICATION SECTION 104

PERMANENT:

- * CURB AND GUTTER
- * DRAINAGE STRUCTURES
- * SOD

2.B. STORM WATER MANAGEMENT:

DRAINAGE PATTERNS AND DIVIDES ARE INCLUDED ON THE DRAINAGE MAP INCLUDED IN THE DRAINAGE REPORT. STORM WATER IS CAPTURE BY PROPOSED INLETS AND RETAIN IN INFILTRATION TRENCHES

2.C. OTHER CONTROLS:

THE CONTRACTOR SHALL PRACTICE GOOD HOUSEKEEPING BY INSTITUTING A CLEAN, ORDERLY CONSTRUCTION SITE; THE FOLLOWING CONTROLS SHALL BE IMPLEMENTED TO FURTHER REDUCE POLLUTION AT THE PROJECT SITE:

2.C.1. DISCHARGE OF MATERIAL TO SURFACE WATERS:

NO CONSTRUCTION MATERIAL SHALL BE DISCHARGE TO WATERS OF THE STATE UNLESS AUTHORIZED BY SECTION 40. PERMIT AND/OR CONSTRUCTION DEBRIS SHALL BE DISPOSED OF IN AN APPROVED UPLAND LOCATION. BUILDING MATERIAL SHALL NOT BE DISPOSED OF IN WETLANDS OR BURIED ON-SITE. IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIAL. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

- * PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT LIMITS DURING CONSTRUCTION ACTIVITIES.
- * DISPOSE OF ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.
- * DISPOSE OF SOLID MATERIALS INCLUDING BUILDING AND COSNTRUCTION MATERIALS OFF THE PROJECT SITE BUT NOT IN SURFACE WATERS OR WETLANDS

2.C.2. OFF-SITE VEHICLE TRACKING AND DUST CONTROL:

THE CONTRACTOR SHALL TAKE MEASURES TO INSURE THE CLEANUP OF THE SEDIMENTS THAT HAVE BEEN TRACKED BY VEHICLES OR HAVE BEEN TRANSPORTED BY WIND OR STORM WATER ABOUT THE SITE OR ONTO NEARBY

STABILIZED CONSTRUCTION ENTRANCES AND CONSTRUCTION ROADS, IF APPROPRIATE, SHALL BE IMPLEMENTED IN ORDER TO REDUCE OFF-SITE TRACKING. LOADED HAUL TRUCKS SHALL BE COVERED WITH TARPAULIN. EXCESS DIRT ON THE ROAD SHALL BE REMOVED DAILY. PROVIDE A STREET SWEEPING PLAN TO THE CITY INSPECTOR.

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING UNLESS OTHERWISE APPROVED BY THE ENGINEER

- * COVER LAODED HAUL TRUCKS WITH TARPAULINS.
- * REMOVE EXCESS DIRT FROM ROADS DAILY.
- * STABILIZE CONSTRUCTION ENTRANCES ACCORDING TO DESIGN STANDARDS 106. (CONTRUCTION ENTRANCES ARE ALREADY STABILIZED FOR THIS

2.C.3. WASTE DISPOSAL, SANITARY SEWER OR SEPTIC TANK REGULATIONS:

THE CONTRACTOR SHALL DEMONSTRATE THE PROPER DISPOSAL OF ALL CONSTRUCTION WASTE GENERATED WITHIN THE PROJECT LIMITS. WASTE MAY INCLUDE, BUT NOT LIMITED TO, VEGETATION FROM CLEANING AND GRUBBING ACTIVITIES, PACKAGING MATERIAL, SCRAP BUILDING MATERIAL, LITTER FROM TRAVELING PUBLIC, SEWAGE FROM SANITARY FACILITIES, HERBICIDES AND PESTICIDES AND THEIR CONTAINERS. AND HYDROCARBON PRODUCTS SHALL BE DESIGNATE A WASTE COLLECTION AREA ON SITE AND DELINEATE THE AREA ON THE SWPPP SITE MAP.

SANITARY SEPTIC FACILITIES SHALL BE PROVIDED AND MAINTAINED IN A NEAT AND SANITARY CONDITION. FOR THE USE OF THE CONTRACTOR'S EMPLOYEES AS NECESSARY TO COMPLY WITH THE REQUIREMENTS AND REGULATIONS OF THE STATE AND LOCAL BOARDS OF HEALTH. A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY THE STATE REGULATIONS WILL COLLECT ALL SANITARY WASTE FROM PORTABLE UNITS.

THE CONTRACTOR WILL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT LIMITS DURING CONSTRUCTION ACTIVITIES. CONTRACTOR WILL PROVIDE AN ADEQUATE NUMBER OF LITTER CONTAINERS WITH THE LIDS AT THIS STAGING STOCKPILE AND FIELD OFFICE AREAS. WASTE COLLECTION WILL BE SCHEDULED SO THAT CONTAINERS ARE EMPTIED PRIOR TO OVERFLOW. SPILLED LITTER CONTAINERS WILL BE CLEANED UP IMMEDIATELY

Revision

Seal By Appd. YY.MM.DD REGISTERED ENGINEER NO. 47660

CARLOS M. HERDOCIA, P.E.

STATE OF FLORIDA

Consultants



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CITY OF DORAL NW 33rd ST DRAINAGE IMPROVEMENTS from NW 87th AVE to NW 82nd AVE

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 CMH
 CMH
 21.11.08

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 Chkd.
 Dsgn.
 YY.MM.DD

SWPP NOTES Project No. Scale Drawing No Sheet Revision

of

C-24

2.C.5 TOXIC/HAZARDOUS MATERIAL HANDLING

CONTRACTOR SHALL PROVIDE EQUIPMENT NECESSARY TO CONTAIN AND CLEAN UP SPILLS OF HAZARDOUS MATERIAL AFTER THEY OCCUR. SPILLED MATERIAL AND THE EQUIPMENT USED TO CLEAN UP THE SPILL SHALL NOT COME IN CONTACT WITH SURFACE WATERS OR BE INTRODUCED INTO STORM WATER. DISPOSAL OF SURPLUS PRODUCT WILL BE DONE ACCORDING TO MANUFACTURE RECOMMENDED METHOD

CONTRACTOR SHALL PROVIDE A PROJECT SPECIFIC HAZARDOUS MATERIAL SPILL CONTROL PLAN TO ADDRESS THE HANDLING OF HYDROCARBON AND HAZARDOUS MATERIALS.
PETROLEUM PRODUCTS SHALL BE STORED IN COVERED AREAS WITH SECONDARY CONTAINMENT SURROUNDING CONTAINER.

TOXIC/HAZARDOUS MATERIAL EXPOSED DURING CONSTRUCTION ACTIVITIES SHALL BE HANDLED AS PER THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

2.D STATE AND LOCAL PERMITS TO BE APPLIED FOR:

* NPDES FROM THE CITY OF DORAL PUBLIC WORKS DEPARTMENT

3.0 MAINTENANCE

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR. IF A CONTROL NEEDS REPAIR OR REPLACEMENT, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT AND RECORDED ON THE INSPECTION FORMS. MAINTENANCE SHALL CONTINUE UNTIL ALL ERODIBLE SOILS WITHIN THE CONTRIBUTING AREA HAVE BEEN STABILIZED. AT THIS POINT, THE CONTRACTOR SHALL REMOVE EXCESS SILT AT THE CONTROLS AND REMOVE THE TEMPORARY DEVICES. THE MAINTENANCE PLAN SHALL AT MINIMUM, COMPLY WITH THE FOLLOWING:

- * INLET PROTECTION (ROCK BAGS): THE CONTRACTOR SHALL INSPECT THE PROTECTED INLETS EVERY TWO WEEKS AND REPLACE THE ROCK BAGS IF NECESSARY OR WHEN EXCESSIVE POUNDING OCCURS; ELIMINATE BREACHES IN THE PROTECTION.
- * TURBIDITY BARRIER: MAINTAIN AS PER SECTION 104 OF THE SPECIFICATIONS.
- * STREET SWEEPING: DAILY CONTROL AND DUST PREVENTION WITH WATER TRUCK.
- * GRASSED AREAS: NEWLY SODDED AREAS AND ADJACENT AREAS DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE REPAIRED AND MAINTAINED, WATERING AND MOWING AS NEEDED OR REQUIRED IN THE FDOT STANDARD SECIFICATIONS.

4.0 INSPECTIONS

QUALIFIED PERSONNEL SHALL INSPECT ALL THE CONTROL FEATURES AT LEAST ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER. TO COMPLY THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES AND RECORD THE DAILY RAINFALL. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY WEEK. THE CONTRACTOR SHALL ALSO ENSURE THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE FOLLOWING ITEMS WILL BE INSPECTED:

- * POINTS OF DISCHARGE TO SURFACE WATERS OR WETLANDS: INSPECT TO DETERMINE IF CONTROLS ARE EFFECTIVE IN PREVENTING OR MINIMIZING THE DISCHARGE OF POLLUTANTS.
- * POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM SEWER SYSTEMS (INLETS, ETC.): INSPECT TO DETERMINE IF CONTROLS ARE EFFECTIVE IN PREVENTING OR MINMIZING THE DISCHARGE OF POLLUTANTS.

By Appd. YY.MM.DD

- * DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED: INSPECT FOR EVIDENCE OF POTENTIAL FOR DISCHARGING POLLUTANTS INTO SURFACE WATERS OR STORMWATER SYSTEMS
- * AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION: INSPECT FOR EVIDENCE OF POTENTIAL FOR DISCHARGING POLLUTANTS INTO SURFACE WATERS OR STORMWATER SYSTEMS.
- * STRUCTURAL CONTROLS: INSPECT FOR PROPER INSTALLATION AND OPERATION.
- * STORMWATER MANAGEMENT SYSTEMS: INSPECT FOR PROPER OPERATION, EVIDENCE OF FLOODING DUE TO SEDIMENTATION OR CONTROLS REQUIRING MAINTENANCE.
- * LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE: INSPECT FOR EVIDENCE OF OFFSITE TRACKING.

THE CONTRACTOR SHALL INITIATE WITHIN 24 HOURS OF INSPECTION THAT INDICATES ITEMS ARE NOT IN GOOD WORKING ORDER BASED ON THE RESULTS OF THE INSPECTION, ALL MAINTENANCE OPERATIONS NEEDED TO ASSURE PROPER OPERATION OF ALL CONTROLS, BMPS OR MEASURES IDENTIFIED IN THIS SWPPP SHALL BE DONE IN A TIMELY MANNER, BUT NO LATER THAN 7 CALENDAR DAYS FOLLOWING THE INSPECTION. IF NEEDED, POLLUTION PREVENTION CONTROLS SHALL BE REVISED AS APPROPRIATE IF FAILURES IN THE PLAN ARE NOTED; THESE REVISIONS SHALL BE IMPLEMENTED NO LATER THAN 7 CALENDAR DAYS FOLLOWING THE INSPECTION.

A REPORT (USE FDOT FORM 650-040-03) SUMMARIZING THE SCOPE OF THE INSPECTION SHALL INCLUDE THE INSPECTOR'S NAME, QUALIFICATIONS, DATE, RAINFALL DATA, OBSERVATIONS RELATING TO THE SWPPP, AND ACTIONS TAKEN SINCE THE LAST REPORT. THE REPORT SHALL INDENTIFY ALL INCIDENTS OF NON-COMPLIANCE.

IF THERE ARE NO INCIDENTS OF NON-COMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE SWPPP AND THE PERMIT. THE REPORT SHALL BE SIGNED AND FILED AS REQUIRED BY THE GENERIC PERMIT.

THE CONTRACTOR SHALL MAINTAIN A FILE CONTAINING THE CURRENT SWPPP, NOI SUBMITTAL, CERTIFICATIONS AND ALL THE SIGNED INSPECTION REPORTS; THE NOTICE OF INTENT SUBMITTED AS REQUIRED BY CHAPTER 62-621, FAC, MUST BE POSTED AT THE SITE.

5.0 NON-STORM WATER DISCHARGES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL IDENTIFY ALL ANTICIPATED NON-STORM WATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES) SUCH AS THOSE LISTED BELOW. THE CONTRACTOR SHALL DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION FROM THESE NON-STORM WATER DISCHARGES.

IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR IS TO CEASE OPERATIONS IN THAT AREA. THE CONTRACTOR SHALL CONTACT THE CITY OF MIAMI PROJECT MANAGER

A DEWATERING PERMIT IS REQUIRED TO REMOVED GROUNDWATER FROM THE CONSTRUCTION SITE.

- * CULVERT INSTALLATION METHODS
- * SLURRY DISPOSAL
- * DUST CONTROL
- * EQUIPMENT WASHOUT
- * PIPE DESILTING ACTIVITIES
- * IRRIGATION

REGISTERED ENGINEER NO. 47660

STATE OF FLORIDA

6.0 CONTRACTOR SUBMITTAL:

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DEVELOP AN EROSION CONTROL PLAN THAT PROVIDES A DETAILED DESCRIPTION OF ALL EROSION AND SEDIMENT CONTROLS, BMP'S AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE FOR EACH ACTIVITY IDENTIFIED IN SECTION 1.B SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TIMEFRAMES IN WHICH THE CONTROLS WILL BE IMPLEMENTED, MAINTAINED AND REMOVED. THIS INFORMATION SHALL BE CONSIDERED IN COMPLIANCE WITH THE FDEP GENERIC PERMIT FOR STORM WATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION SITES.

THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE FOLLOWING ITEMS ARE ON SITE:

- 1. COPY OF THE SWPPP WITH THE ORIGINAL CERTIFICATION SIGNATURES.
- 2. COPY OF THE CONTRACTOR'S EROSION CONTROL PLAN.
- 3. HAZARDOUS SPILL CONTROL PLAN WITH GUIDELINES ON CONTACTING THE 24-HOUR EMERGENCY RESPONSE PROGRAM FOR HAZARDOUS MATERIAL SPILLS. THIS SHALL INCLUDE COPIES OF DISCHARGE NOTIFICATIONS THAT HAVE OCCURRED WITHIN THE PROJECT LIMITS.
- 4. COMPLETE INSPECTION FORMS.

IAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 6IGIS-

2156\pative\215616857\civil\design\drawing\11 22/05/10 1:17 PM By: Morales, Rod

Seal Consultants

CARLOS M. HERDOCIA, P.E.

By Appd. YY.MM.DD

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NW 33rd ST DRAINAGE IMPROVEMENTS

from NW 87th AVE to NW 82nd AVE

File Name:

 SWPP NOTES

 Project No.
 Scale

 Drawing No.
 Sheet
 Revision

 C-25
 of

ACCURACY:

ground surfaces.

For Vertical Control:

Benchmark: N-515

Benchmark: N-583

Located 1-

Located 2--

Located 1-

Located 2----

position accuracy of 1/10 of a foot.

DATA SOURCES USED FOR SURVEY:

= CABLE TELEVISION MARKER

A portion of the public right of way along NW 33 Street from NW 87 Avenue to NW 82 Avenue

The accuracy obtained by field measurement methods and office calculations of closed geometric figures meets and exceeds the Standards of Practice requirement for Suburban Area

The elevations as shown are based on a closed level between the two benchmarks noted on this survey, and meets or exceeds the Standards of Practice as set forth by the Florida Board of

The Vertical Accuracy obtained on this "Topographic Survey" exceeds the calculated value of

closure in feet of plus or minus 0.05 feet times the square root of the distance in miles a commonly

Elevations of well identified features as depicted on the Survey Map were measured to an

estimated vertical position accuracy of 1/100 of a foot on hard surfaces and 1/10 of a foot on

Well identified features as depicted on the Survey Map were measured to an estimated horizontal

This Map of Survey is intended to be displayed at a scale of One inch equals Twenty feet or smaller.

This project area appears to be located in Flood Zone "AH and "X" with a Base Flood Elevation

being 7.0' (N.G.V.D.' 29) and not determined respectively, as per Federal Emergency

Management Agency (FEMA) Community-Panel Number 120041 (City of Doral), Map No.

All elevations shown hereon are based on the National Geodetic Vertical Datum of 1929 (N.G.V.D. '29) and Benchmarks supplied by the Public Works and Waste Management Department of

Elevation: + 7.43' (N.G.V.D. '29)

Elevation: + 8.07' (N.G.V.D. '29)

Plat of "PARK SQUARE APARTMENTS" according to the Plat thereof as recorded in Plat Book 171 at

Plat of "OASIS PARK SQUARE AT DORAL" according to the Plat thereof as recorded in Plat Book 170

Plat of "CORPORATE OFFICE PARK PHASE II" according to the Plat thereof as recorded in Plat Book

Plat of "CORPORATE OFFICE PARK PHASE III" according to the Plat thereof as recorded in Plat Book

Plat of "RYDER CHILD CARE CENTER" according to the Plat thereof as recorded in Plat Book 145 at

Plat of "WESTSIDE CORPORATE CENTER SCHOOL" according to the Plat thereof as recorded in Plat

Plat of "WESTSIDE PLAZA" according to the Plat thereof as recorded in Plat Book 154 at Page 13 of

Plat of "WESTSIDE PLAZA 1ST ADDITION" according to the Plat thereof as recorded in Plat Book 154

NW 36 ST (EXT) --- 80' NORTH OF NORTH EDGE OF PAVEMENT

- NW 87 AVE --- 3' WEST OF WEST EDGE OF PAVEMENT

--- NW 82 AVE --- 27' WEST OF WEST EDGE OF PAVEMENT

- NW 25 ST --- 61.5' NORTH OF NORTH EDGE OF PAVEMENT

The date of completion of the original field Survey was on October 30, 2021

Professional Surveyors and Mappers as contained in Chapter 5J-17, FAC.

value accepted in the construction and surveying industry.

12086C0287, Suffix L, Map Revised Date: September 11, 2009

Page 86 of the Public Records of Miami-Dade County, Florida.

at Page 50 of the Public Records of Miami-Dade County, Florida.

150 at Page 71 of the Public Records of Miami-Dade County, Florida.

148 at Page 66 of the Public Records of Miami-Dade County, Florida.

Book 155 at Page 5 of the Public Records of Miami-Dade County, Florida.

Page 65 of the Public Records of Miami-Dade County, Florida.

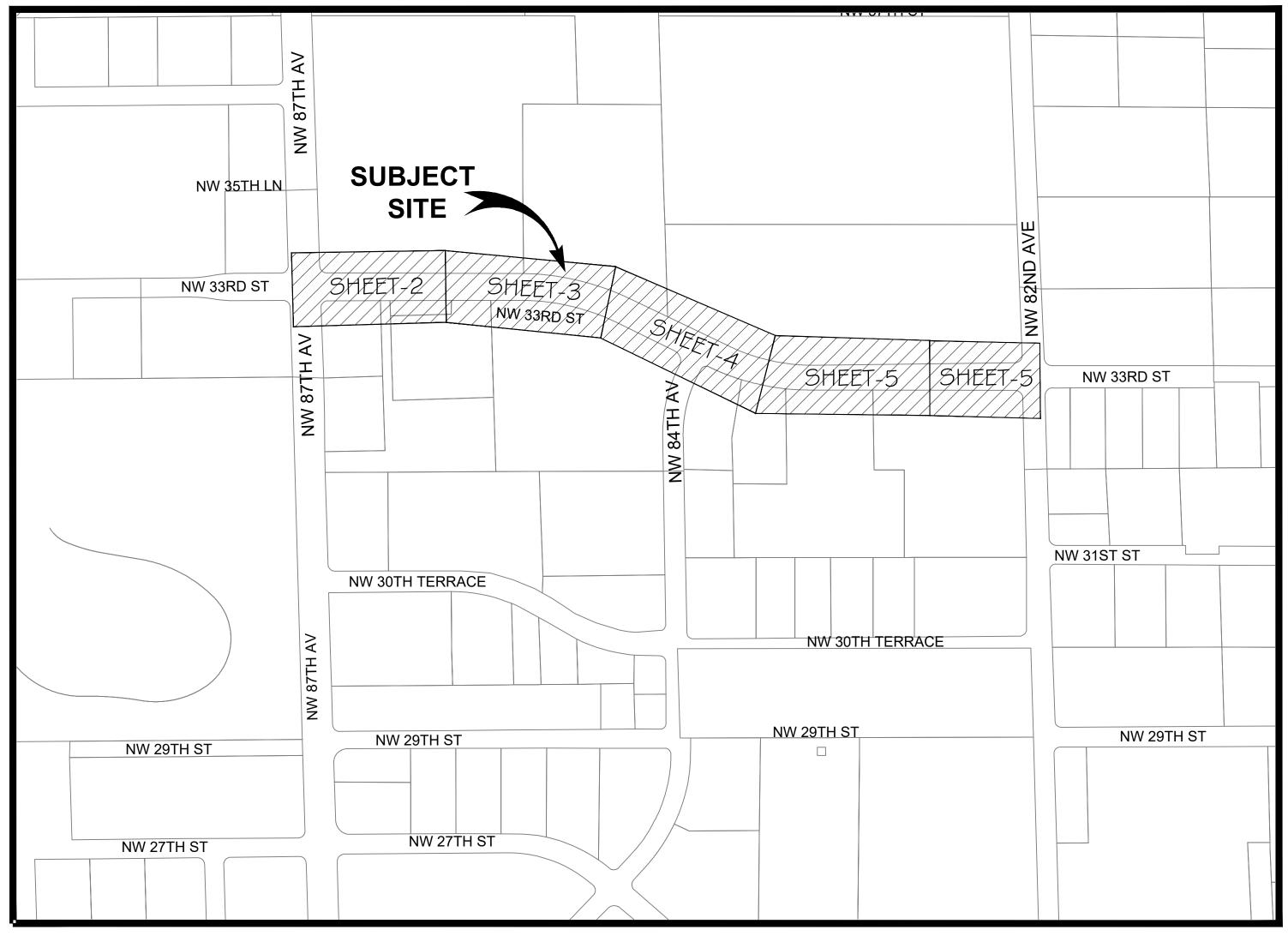
at Page 41 of the Public Records of Miami-Dade County, Florida.

the Public Records of Miami-Dade County, Florida.

(Linear: 1 foot in 7,500 feet) as defined in Rule 5J-17.051, Florida Administrative Code.

MAP OF TOPOGRAPHIC SURVEY

SECTION 27 - TOWNSHIP 53 SOUTH - RANGE 40 EAST LYING AND BEING IN THE CITY OF DORAL, FLORIDA



LOCATION MAP (NOT TO SCALE)

For Horizontal Control:

Bearings and coordinates (Northing and Easting) are relative to the Florida State Plane Coordinate System, Florida East Zone 0901, North American Datum (NAD) 1983 adjustment of 2011 (NAD83/2011)-Epoch 2010.0000; with a bearing of N 89°58'57" W being established for the Centerline of NW 33rd Street, said line to be considered a well established and monumented line.

Global Positioning System (G.P.S.). measurements were conducted in the field to acquire said coordinate values which are based on the following Horizontal Control Station:

Name: District 6
Code: FLD6
Geographic Coordinates:
Latitude: 25° 46' 49.67350" N
Longitude: 80° 22' 35.34867" W
State Plane Coordinates:
Northing: 526,386.04603 US Feet
Easting: 861,341.73829 US Feet
Creation Date: 17-07-2014
Receiver Type: Leica GR 10
Satellite System: GPS and GLONASS

Name: Miami Beach
Code: FLMB
Geographic Coordinates
Latitude: 25° 46' 57.83764" N
Longitude: 80° 8' 14.16768" W
State Plane Coordinates:
Northing: 527,654.41 US Feet
Easting: 940,056.84 US Feet
Creation Date: 17-07-2014
Receiver Type: Leica GR10
Satellite System: GPS and GLONASS

LIMITATIONS:

Since no other information were furnished other than that is cited under data sources, the Client is hereby advised that there may be legal restrictions on the Subject Property that are not shown on the Survey Map that may be found in the Public Records of Miami-Dade County.

The Surveyor makes no representation as to ownership or possession of the Subject Property by any entity or individual that may appear on the Public Records of this County.

No excavation or determination was made as to how the Subject Property is served by utilities.

No improvements were located, other than those shown. No underground foundations, improvements and/or utilities were located or shown hereon.

PURPOSE OF SURVEY:

The purpose of this survey is for design

CLIENT INFORMATION:

This Topographic Survey was prepared at the insistence of and certified to: STANTEC

SURVEYOR'S CERTIFICATE:

I hereby certify: That this "Topographic Survey" and the Survey Map consisting of sheets 1 thru 6 was performed under my direction and is true and correct to the best of my knowledge and belief and further, that said "Topographic Survey" meets the intent of the applicable provisions of the Standards of Practice for Land Surveying in the State of Florida, pursuant to Rule 5J-17 of the Florida Administrative Code and its implementing law, Chapter 472.027 of the Florida Statutes.

LONGITUDE SURVEYORS LLC., a Florida Limited Liability Company Florida Certificate of Authorization Number LB7335

This item has been digitally signed by:

Eduardo M. Suarez, PSM
Professional Surveyor and Mapper LS6313
State of Florida

NOTICE: Printed copies of this document are not considered signed and sealed and the signature must be verified on the electronic copies. The above named Professional Surveyor & Mapper shall be responsible for the following sheets in accordance with Rule 5J -17, F.A.C.

LONGITUDE

7769 NW 48th STREET SUITE 375 DORAL, FLORIDA 33166 PH: (305) 463-0912 FAX: (305) 513-5680 FLORIDA CERTIFICATE OF AUTHORIZATION LB 7335

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	By:					
RECORD OF REVISION	Description					
	Date:					
	No.:					
				Ц	J	

ORAL

VENUE TO NW 82 AVEN

FANTEC DOI

ST roject Address:

n By: Jo

Scale: AS SHOWN
Drawn By: JG
Checked By: DF

Managed By: DF

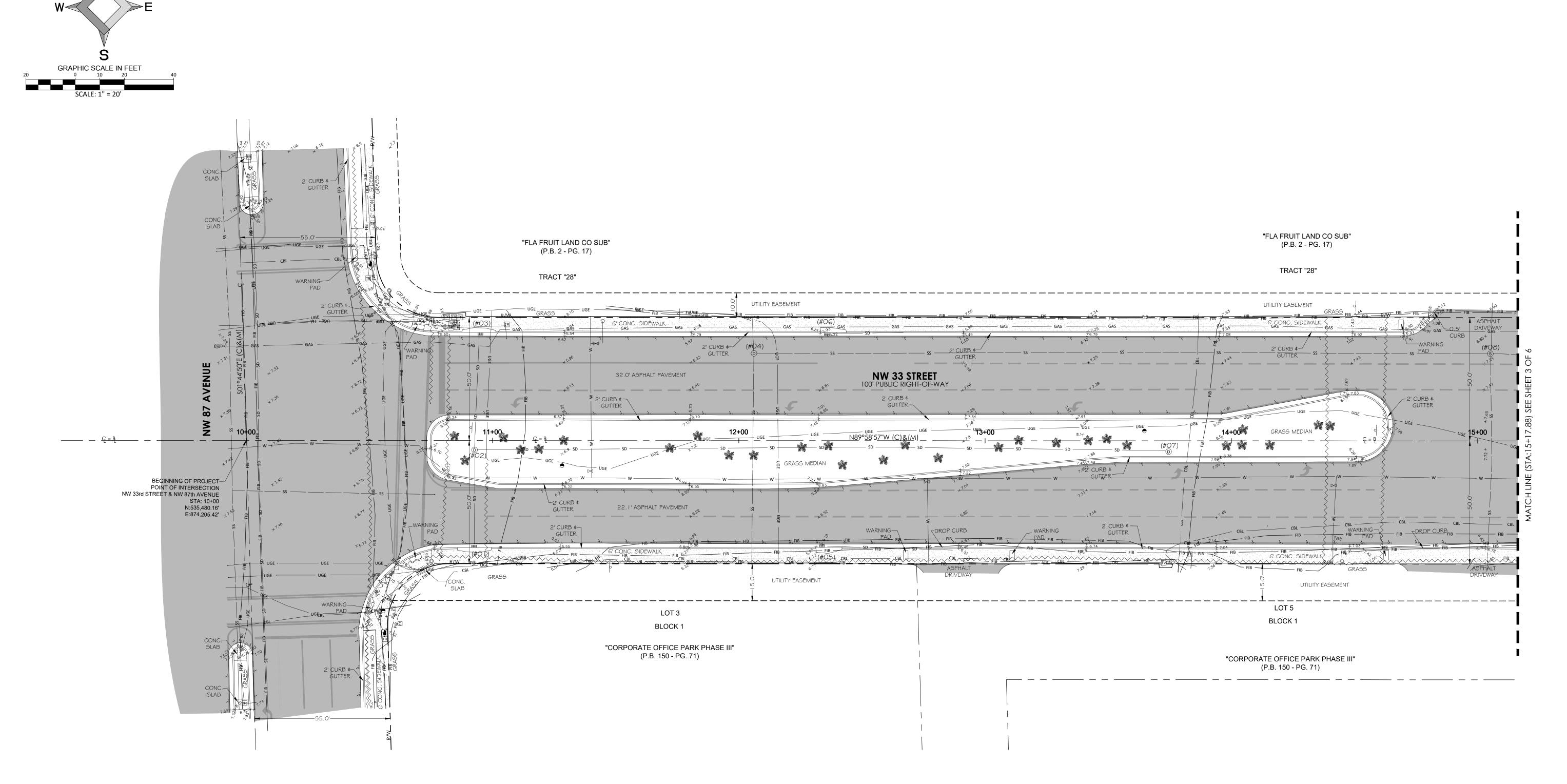
Drawing Date: Dec. 1, 2021

Project No.:

21402.0.01

Sheet 1 of 6

MAP OF TOPOGRAPHIC SURVEY



LONGITUDE SURVEYORS 7769 NW 48th STREET SUITE 375 DORAL, FLORIDA PH: (305) 463-0912 FAX: (305) 513-5680 FLORIDA CERTIFICATI OF AUTHORIZATION WWW.LONGITUDESURVEYORS.COM AS SHOWN Drawn By: Checked By:

LEGEND (UNDERGROUND) — CBL— COMUNICATION LINE

— TEL— TELEPHONE LINE

— FIB — FIBER OPTICAL CABLE

— UGE — ELECTRIC LINE

-----SD------ STORM DRAINAGE

—— w—— WATER LINE

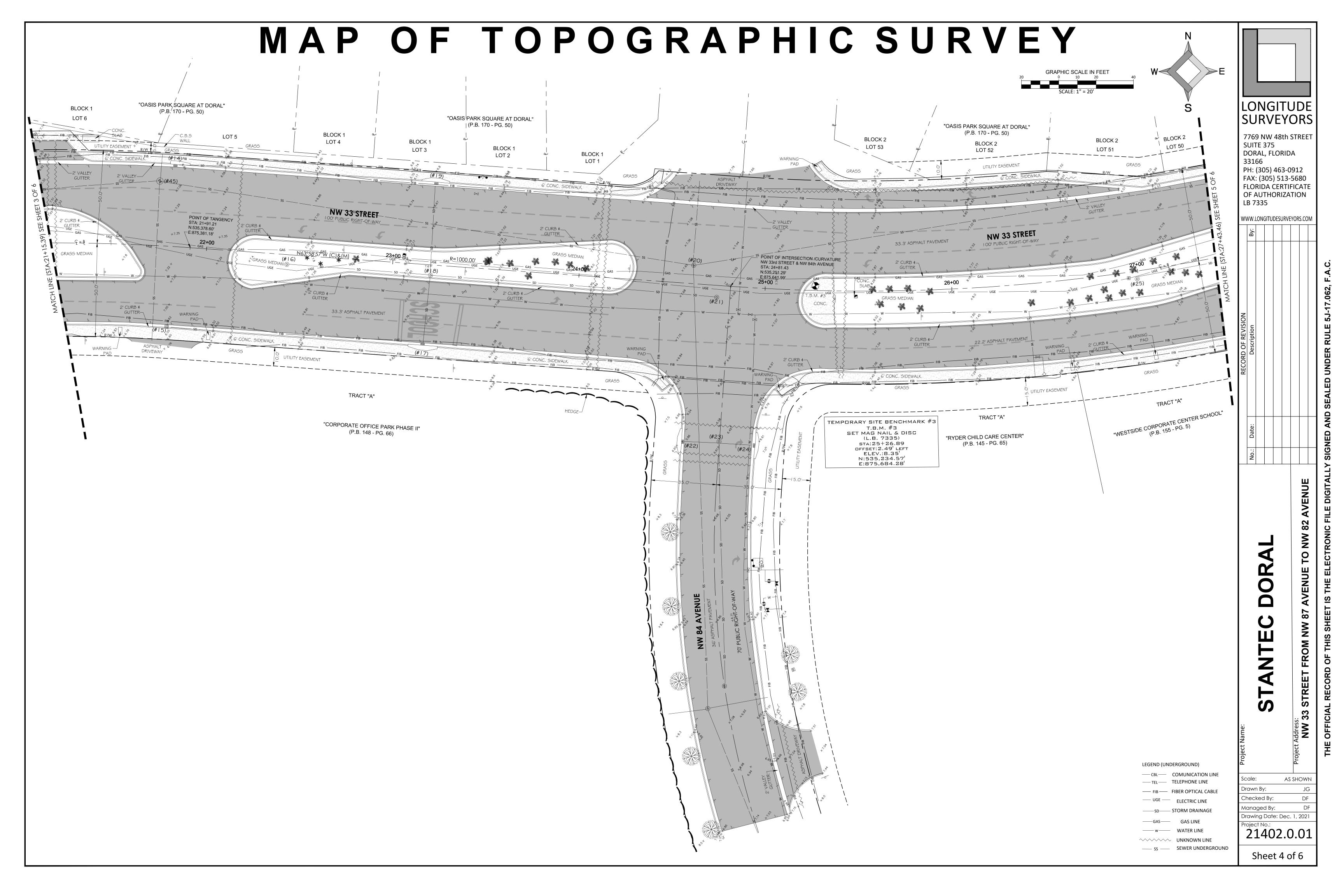
VVVVVVV UNKNOWN LINE

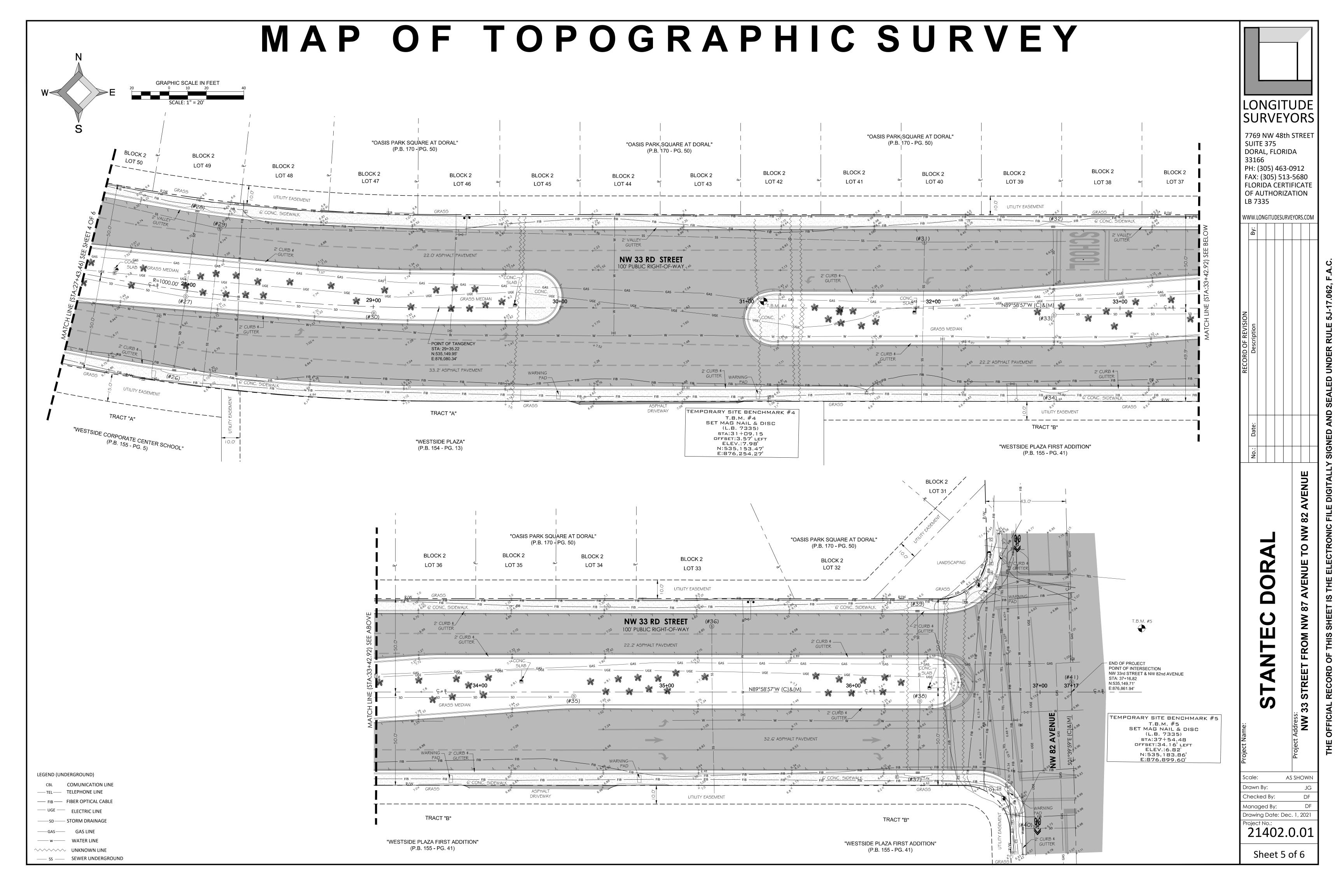
—— SS —— SEWER UNDERGROUND

Sheet 2 of 6

Drawing Date: Dec. 1, 2021

Managed By:





MAP OF TOPOGRAPHIC SURVEY

	DRAINAGE AND SANITARY INFORMATION											
#	TYPE	RIM	DIRECTION 1	DIRECTION 2	DIRECTION 3	DIRECTION 4	DIRECTION 5	BOTTOM ELEV.	SEDIMENT ELEV.			
1 CURB	BINLET	5.16'	N - Ø 15" RCP - INV.: = 1.08'	-	-	-	-	-0.84'	-			
2 DRAII	NAGE MANH	HOLE 7.05'	N - Ø 15" RCP - INV.: = 1.06'	E - Ø 18" CMP - INV.: = 0.08'	S - Ø 15" RCP - INV.: = 1.05'	-	-	-1.95'	0.45'			
3 CURB	SINLET	5.19'	S - Ø 15" RCP - INV.: = 1.39'	-	-	-	-	-0.81'	-			
4 DRAII	NAGE MANH	HOLE 6.31'	N - Ø 6" PVC - INV.: = 2.36'	E - Ø 8" PVC - INV.: = 2.32'	S - Ø 6" PVC - INV.: = 2.35'	-	-	-	-			
5 CURB	BINLET	6.05'	E - Ø 18" CMP - INV.: = 2.38'	-	-	-	-	0.15'	-			
6 CURB	SINLET	5.99'	E - Ø 18" CMP - INV.: = 2.67'	-	-	-	-	0.14'	-			
7 DRAII	NAGE MANH	HOLE 8.41'	W - Ø 15" CMP - INV.: = 0.31'	-	-	-	-	-1.69'	-			
	TARY MANH	 	N - Ø 8" PVC - INV.: = 1.06'	SE - Ø 8" PVC - INV.: = 1.03'	S - Ø 8" PVC - INV.: = 1.07'	W - Ø 8" PVC - INV.: = 1.06'	-	-	-			
9 DRAII	NAGE MANH	HOLE 8.24'	E - Ø 8" CMP - INV.: = 1.44'	-	-	-	-	-0.51'	-			
10 CURB	SINLET	5.89'	N - Ø 15" RCP - INV.: = 1.79'	-	-	-	-	0.04'	1.84'			
11 DRAII	NAGE MANH	HOLE 7.80'	N - Ø 15" RCP - INV.: = 2.00'	SE - Ø 18" CMP - INV.: = 1.23'	S - Ø 15" RCP - INV.: = 1.70'	W - Ø 18" CMP - INV.: = 1.25'	-	-0.55'	1.95'			
12 CURB		6.25'	S - Ø 15" RCP - INV.: = 1.80'	-	-	-	-	-0.15'	-			
	TARY MANH	- +	NE - Ø 8" PVC - INV.: = 0.78'	SE - Ø 8" PVC - INV.: = -0.21'	SW - Ø 8" PVC - INV.: = 0.68'	NW - Ø 8" PVC - INV.: = -0.19'	-	_	-			
14 CURB		6.33'	SE - Ø 18" CMP - INV.: = 3.22'	-	-	-	_	-0.49'	-			
15 CURB		6.57'	SE - Ø 18" CMP - INV.: = 2.62'	-	-	-	-	-0.63'	-			
_	NAGE MANH	HOLE 8.15'	SE - Ø 18" CMP - INV.: = 1.40'	-	-	-	-	-0.30'	-			
17 CURB		6.26'	NE - Ø 15" RCP - INV.: = 1.96'	-	-	-	-	-0.14'	-			
	NAGE MANH		NE - Ø 15" RCP - INV.: = 1.83'	SE - Ø 18" CMP - INV.: = 1.14'	SW - Ø 15" RCP - INV.: = 1.81'	NW - Ø 18" CMP - INV.: = 1.29'	_	-0.41'	-			
L9 CURB		6.26'	SW - Ø 15" RCP - INV.: = 2.21'	-	-	-	_	0.29'	_			
	TARY MANH	+	NE - Ø 8" CLAY - INV.: = 0.72'	NE - Ø 8" CLAY - INV.: = -1.33'	SE - Ø 8" PVC - INV.: = -1.91'	SW - Ø 10" PVC - INV.: = -1.95'	NW - Ø 8" CLAY - INV.: = -1.91		-			
	NAGE MANH		•	· ·	-	-	-	-0.22'	-			
22 CURB		6.13'	SE - Ø 15" RCP - INV.: = 2.18'	_	-	_	_	0.33'	_			
	NAGE MANH	 	SE - Ø 15" RCP - INV.: = 1.83'	SW - Ø 18" CMP - INV.: = 1.28'	NW - Ø 15" RCP - INV.: = 1.78'	_	_	0.58'	-			
24 CURB		6.14'	NW - Ø 15" RCP - INV.: = 2.64'	-	-	_	_	0.29'	_			
_	NAGE MANH	HOLF 7 77'	SE - Ø 18" CMP - INV.: = 1.52'	_		_	_	-0.33'	-			
6 CURB		6.26'	N - Ø 15" CMP - INV.: = 2.49'	_		_	_	0.51'	2.56'			
	NAGE MANH	 	N - Ø 15" RCP - INV.: = -1.89'	E - Ø 18" CMP - INV.: = 1.01'	S - Ø 15" RCP - INV.: = 1.84'	NW - Ø 18" CMP - INV.: = 1.41'	_	-0.09'	2.91'			
8 CURB		6.20'	S - Ø 15" RCP - INV.: = 2.30'	-	-	-	_	0.32'	-			
	TARY MANH	 	E - Ø 8" PVC - INV.: = -0.94'	S - Ø 8" PVC - INV.: = -0.48'	NW - Ø 8" PVC - INV.: = -0.97'	_	_		_			
	NAGE MANH		W - Ø 18" CMP - INV.: = 1.82'	-	-	_	_	-0.13'	-			
	TARY MANH		E - Ø 8" PVC - INV.: = 0.57'	S - Ø 8" PVC - INV.: = 0.60'	W - Ø 8" PVC - INV.: = 0.55'	_	_	- 0.13	_			
2 CURB		6.34'	S - Ø 15" RCP - INV.: = 2.34'		-	_	_	0.49'	-			
_	NAGE MANH	+	N - Ø 15" RCP - INV.: = 2.15'	E - Ø 18" CMP - INV.: = 1.42'	S - Ø 15" RCP - INV.: = 2.09'	_	_	-0.36'				
34 CURB		6.37'	N - Ø 15" RCP - INV.: = 2.47'		-	_	_	0.57'	-			
	NAGE MANH		E - Ø 18" CMP - INV.: = 2.44'	W - Ø 18" CMP - INV.: = 1.24'		_	-	-0.56'	3.14'			
	TARY MANH	- 1	S - Ø 8" PVC - INV.: = 1.97'	W - Ø 8" PVC - INV.: = 1.95'		_	_		-			
37 CURB		5.98'	N - Ø 15" RCP - INV.: = 2.08'			_	_	0.28'				
	NAGE MANH	+	N - Ø 15" RCP - INV.: = 1.69'	S - Ø 15" RCP - INV.: = 1.84'	W - Ø 18" CMP - INV.: = 2.8'	_	_	-0.41'	2.14'			
9 CURB		5.99'	S - Ø 15" RCP - INV.: = 1.74'	- 1.04		_	_	-0.41	-			
O CURB		6.50'	E - Ø 18" HDPE - INV.: = 3.05'			<u> </u>	_	-0.80'	-			
	TARY MANH		E - Ø 8" PVC - INV.: = -1.43'	S - Ø 8" PVC - INV.: = 1.46'		_						
		 	•		- S - Ø 10" CIDD LINER - INV · 2 47'	- W - Ø 8" CLAY - INV.: = 0.51' W - Ø 8" CLAY - INV.: = -2.17'		-0.48'	-			
	NAGE MANE		NE-Ø 18"CMP-INV.:=-1.32'		2.47			-0.40	-			
	NAGE MANE	1	W - Ø 18" CMP - INV.:=-1.32	-	-	-	-	-1.19'	<u>-</u>			
_		 	NW - Ø 10"PVC - INV.: =-2.31'	NE - Ø 8" PVC- INV.: = -0.91'	SW - Ø 8"PVC- INV.: = -0.81'	SE - Ø 10" PVC - INV.: = -2.36'		-1.13				
+2 SHIVI	HANT WANT	IOLE 3.39	14 44 - 75 TO LAC - 114 4 .; =-5.31	INF - M O LAC- IINA"0.31	3VV - W O F V C - IIV V = -U.81	3L-WIU FVC-IIIV2.50						

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	No.:							

Checked By:

Drawing Date: Dec. 1, 2021
Project No.:
21402.0.01

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