



**AGENDA
TECHNICAL REVIEW COMMITTEE
REGULAR MEETING
AUGUST 27, 2020
9:00 AM
CITY HALL COMMISSION CHAMBERS
204 ASH STREET
FERNANDINA BEACH, FL 32034**

- 1. CALL TO ORDER**
- 2. ROLL CALL**
- 3. PLEDGE OF ALLEGIANCE**
- 4. APPROVAL OF MINUTES**
- 5. OLD BUSINESS**
 - 5.1 SPR 2019-11 - Bistro 2020:Comment Response Discussion
 - 5.2 SPR 2020-0004 - SMCC Parking Lot & Relocation of Liberty Billings House:Comment Response Discussion
 - 5.3 SPR 2020-0006 - Paxton Automotive Marketing: Comment Response Discussion
- 6. DEVELOPMENT INQUIRIES FROM APPLICANTS NOT ON THE AGENDA - DISCUSSION ONLY, NO ACTION TO BE TAKEN.**
- 7. COMMITTEE BUSINESS**
- 8. ADJOURNMENT**

NEXT REGULAR TRC MEETING IS SCHEDULED FOR SEPTEMBER 10, 2020

Persons with disabilities requiring accommodations in order to participate in this program or activity should contact 310-3115, TTY 711, or through the Florida Relay Services at 1-800-955-8771 (TTY number for all City offices) at least 24 hours in advance to request such accommodations.



GEORGE WRAY THOMAS

WWW.GWTHOMAS.NET

George W. Thomas, NJ,PA,FL
Andrew C. Bechtold NJ,MD,FL
David Shorten, NY

August 13, 2020

Jake Platt, CFM, Senior Planner
204 Ash St
Fernandina Beach, FL 32034a

Re: Bistro 2020
14 N. 2nd Street
Fernandina Beach, FL 32034
Our File #15018

Planning

- Sheets S-1 and S-2 have been revised to show where the existing driveway connection is being removed. The new sidewalk will be stamped with hexagonal and stained brick patterns to match the existing sidewalk.
- The location of the 3 shade trees are shown on sheet S-2.
- Sheet S-2 provides the landscape and irrigation plan. A waiver is requested to allow for the rooftop planters to be considered acceptable landscaping.
- The summary block on sheet S-1 has been revised to remove the FAR discrepancies.

Stormwater

- The small courtyard of the adjacent property is to the south. This property is to the north with all drains leading to the street.
- Hydraulic Computations for the 10 Year Event have been provided.

Fire

- For the address 14 N 2nd Street, the owner would like the business addresses to be Suite 100, 200, 201, as shown on sheets A-5 and A-6.
- The separation between Assembly and Business for the building are shown on sheets A-5 and A-6 with details.
- The means of egress are shown on sheets A-5 and A-6. The egress capacity has been depicted.
- The fire suppression riser and fire alarm panel access room are shown on sheet A-5.

Building

- The proper fire rated ceiling/ floor are shown on sheets A-4 and A-5.
- The Florida codes used are noted on sheet S-2.
- The FEMA Flood Plan information has been added to sheet S-2. Sheet A-2 and A-3 shows the design factors in NAVD format.
- The missing gutter leader has been added to sheet A-2.
- As shown on sheet A-3 the HVAC system has been raised to +11.0".
- The Handicapped Accessible water fountain with height measurements has been added to sheet A-6.
- Sheet A-9 shows the secondary rainwater leader from the roof to grade. This has also been shown on the

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elevations on sheet A-3.

- The code information has been updated on sheet DTL-1. Also provided on sheet DTL-1 are the Gutter Details for gutter maintenance and Detailed Wall Section for depiction of fire rating.

Utilities Wastewater

- Sheet S-3 shows the location of a 6-inch gravity sewer lateral with location of clean out and grease interceptor.
- The occupancy of 139 is noted on sheet A-5.

Utilities Wastewater

- The new water meter locations are shown on sheet S-3 and the street scape on sheet S-2.

If you have any questions regarding this, please feel free to contact our office.

Very truly yours,

Andrew C. Bechtold, R.A.
/ls

G.W. Thomas, P.E.

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GEORGE WRAY THOMAS ENGINEER**HYDRAULIC COMPUTATIONS 10 YEAR EVENT**

PROJECT Grassi American Bistro

LOCATION 14 N 2nd St
Block 10 Lot 5
Fernandino Beach, FL

FILE NO: 15018

DATE: 08/13/20

COMP BY: DWS

A. DESIGN CONCEPT

Stormwater runoff from the proposed development will be directed into the city of Fernandino Beach storm Sewer system. The post construction volume of stormwater generated by the proposed development is less than the preconstruction stormwater volume

B. RUNOFF AND CURVE NUMBER DETERMINATION

1 Total Area of drainage Basin 4,250 SF 0.10 AC

2 Runoff

	PRE-DEVELOP		POST-DEVELOP	
	Curve #	Area (sf)	Curve #	Area (sf)
Pavement	98	-	98	-
Sidewalk	98	-	85	-
Structure	98	-	98	2,975
Gravel Dr	85	5,107	85	-
Conc Driveways	98	-	98	-
Open	61	-	61	1,275
Landscaped	55	-	55	-
Forest	55	-		
Detention Pond	100	0	100	
WT CN		85.0		86.9
S		1.765		1.507

STORM	P(in)	RUNOFF (in)	RUNOFF (in)
10Yr	5.0	3.37	3.56

RETENTION CALCULATIONS

A. Retention Calculations

Retention calculations will be based on the difference between the pre & post runoff.

The difference in runoff between the pre & post conditions for a 10 yr storm will be retained onsite for recharge into the ground water

Runoff will be calculated based on the procedures outlined in "Urban Hydrology for Small Watersheds. TR 55"

Post Construction runoff 10 Yr Q= 3.56 in

Pre Construction runoff 10 Yr Q= 3.37 in

Difference 0.19 in

Total Area	4,250 sf
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Volume of Storage Required =

$$= 0.19 / 12 \times 4,250 \text{ SF}$$

= 67 CF

GEORGE W. THOMAS

NJ LIC 21822



Planning

- Where the existing driveway connection is being removed, sidewalk must be stamped with hexagonal and stained brick patterns to match existing.
- Three shade trees are required for minimum planting. Where will these trees be located?
- Irrigation and landscape plan not provided. Rooftop planters are not practical and insufficient to meet minimum requirement.
- The summary block has discrepancies on FAR and “non-residential use.” The proposal does not have a residential component.

Stormwater

- The plan referenced in the response to comments does not provide any information for on-site retention to meet LDC .003.03 and 7.03.02F.
- The plan also does not address off-site runoff entering the property from the small courtyard of the adjacent property to the north. Per section 7.03.02G(1)c, the drainage plan shall identify existing points of entry of water from adjacent property, and Per section 7.03.02H(1) *All off-site drainage entering the property prior to the commencement of construction shall be maintained through the construction period.*
- Clarify if project will fall under SJRWMD or FDEP Environmental Resource Permit thresholds or provide the necessary permit.
- Sheet S-1 notes that impervious coverage may be 100% “where stormwater facilities are available and have sufficient capacity to accept runoff from the lot”. No calculations have been provided regarding runoff or sufficient capacity of the stormwater facilities. This needs to be clarified. This does not satisfy the requirements of LDC 3.05.03F.

Fire

- Address, 14 N 2nd St, was created and assigned 12/30/2019; let me know how the owner would like the businesses addressed; Examples: Unit/Suite 100, 200, 201; or Unit/Suite 1, 2A, 2B; etc.;
- Correct, a 1 hour separation between Assembly and Business is required; “Occupancy separations shall be vertical, horizontal, or both or, when necessary, of such other form as required to provide complete separation between occupancy divisions in the building.”
- Not sure of the intended occupant load for the ground floor A-2 occupancy classification that is referenced, but will only one means of egress meet the project’s need?
- Fire suppression riser and fire alarm panel access room; Systems shall be accessible for operation, inspection, tests, and maintenance. The components need not be open or exposed. Doors, removable panels, or valve pits can satisfy this need. Such equipment should not be obstructed by such permanent features as walls, ducts, columns, or direct burial.



Streets

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Building

- Pg. S- 1, sprinkled first floor nothing second. Just a design note there will need to be proper fire rated ceiling/ floor, chase systems in the main designs as well as the noted walls.
- Pg. S- 2, Please list the Florida codes used. Note "currently adopted Florida building coda" does not help.
- The flood zone is AE-9 your flood dry proofing needs to be two feet above per the Floodplain Ordinance. The design shows 11 NAVD once Pg. S- 2 and 10 NGVD all other pages. Note these factors should be in NAVD format. Elevator sump and pump discharge? What is protecting the windows from flood? The HVAC systems need to be raised to the designed flood elevation. Does the screening wall account for this?
- Pg. A- 2, elevation missing gutter leader.
- Pg. A- 3, the HVAC systems need to be raised to the designed flood elevation. Does the screening wall account for this?
- Pg. A- 5, since your providing fixture information where are the service sinks possible drinking fountain?
- Pg. A- 7, roof pitch shows 3/16 of an inch with no secondary drainage method. Please correct.
- Pg. EX- 1, please correct your code information in the general notes and specifications. The Wall Section and Gutter Details do they account for proper fire separation needs? How do you maintain this gutter system?

07/23/2020 no further comments. DPK

Utilities – Wastewater

- Need Civil Engineering Plan show installation of 6 inch gravity sewer lateral with location of clean out and grease interceptor.
- Need number of seats for restaurant?

Utilities – Water

- Need Civil Engineering Site Plan showing new water meter locations and street scape?
- Are multiple water meters being requested or single owner for building?
- Is a fire water line being requested?

Trees

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BISTRO 2020

14 NORTH SECOND STREET



Design Development

January 15, 2020

LIST OF DRAWINGS		
DATE	PAGE #	TITLE
1-15-20	T-1	TITLE SHEET
1-15-20	S-1	SITE PLAN
1-15-20	S-2	FLOOD & LANDSCAPING PLAN
1-15-20	A-1	NORTH SECOND STREET ELEVATIONS
1-15-20	A-2	FRONT & REAR ELEVATIONS
1-15-20	A-3	RIGHT SIDE ELEVATION
1-15-20	A-4	LEFT SIDE ELEVATION
1-15-20	A-5	FIRST FLOOR PLAN
1-15-20	A-6	SECOND FLOOR PLAN
1-15-20	A-1	ROOF DRAINAGE PLAN

GRASSI AMERICAN
BISTRO 2020
14 NORTH 2ND STREET
LOT: 5 BLOCK: 10
FERNANDINA BEACH, FL.

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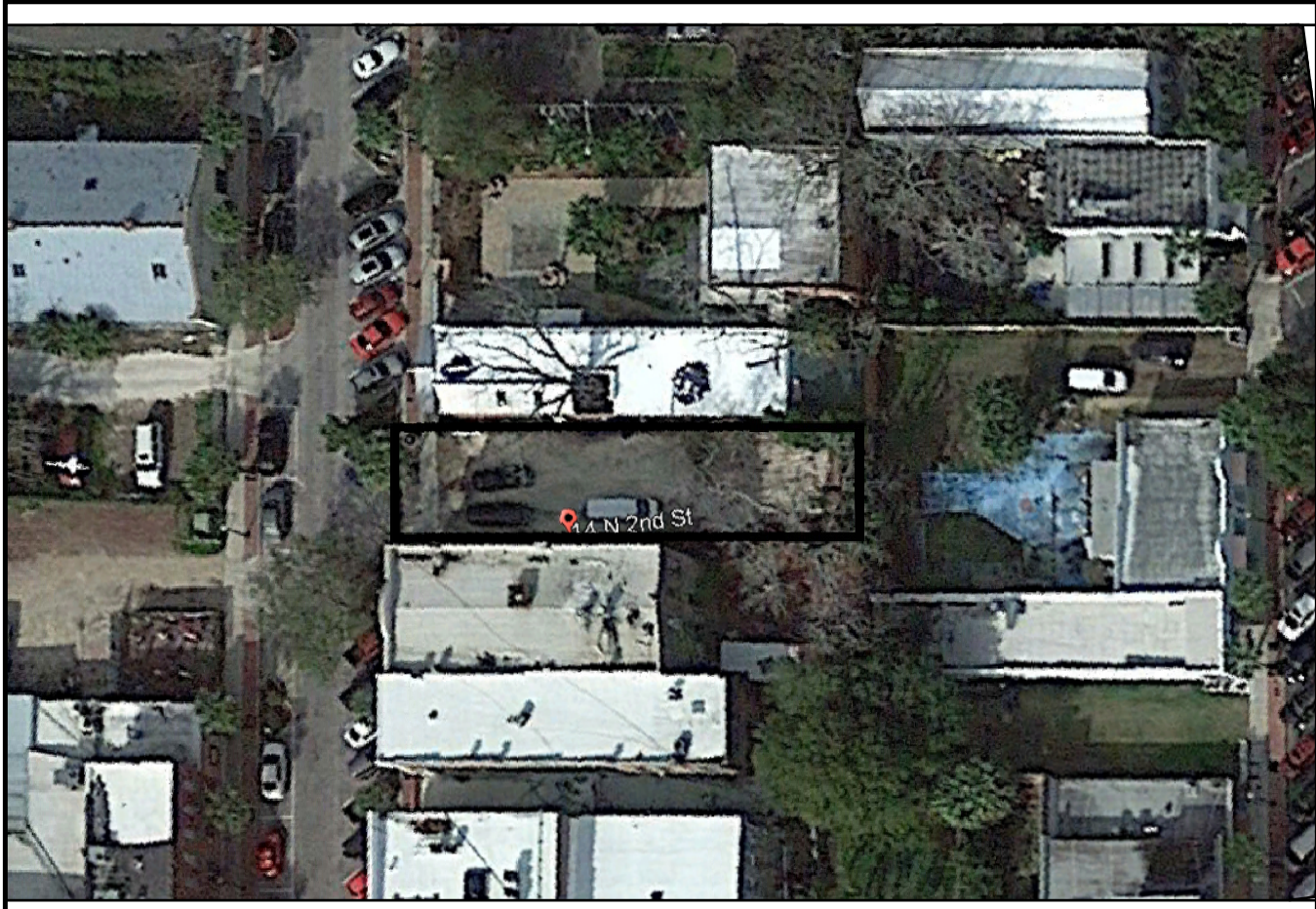
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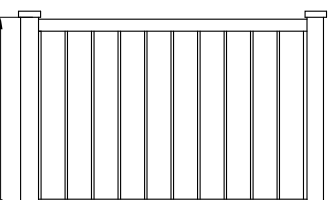
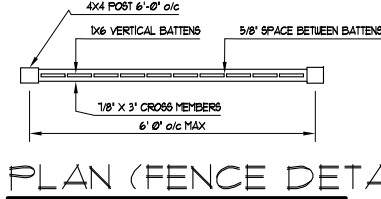
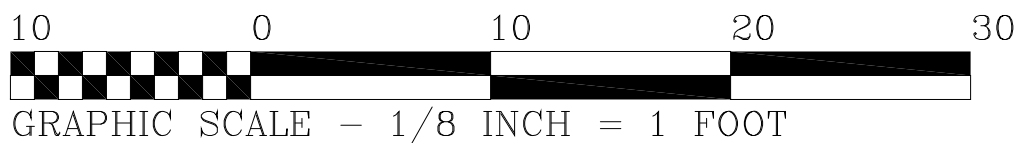


SUMMARY BLOCK

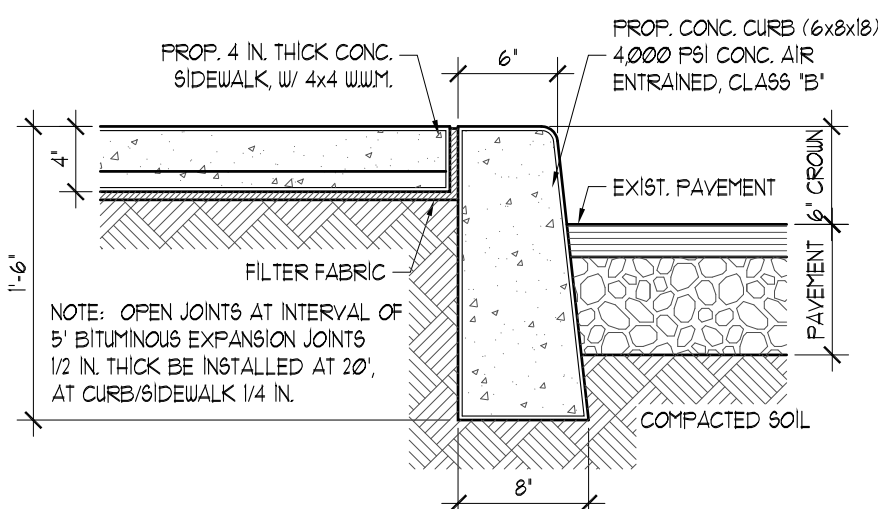
CENTRAL BUSINESS DISTRICT
FLOOD ZONE = +9.0'
USE GROUPS = GROUND FLOOR 'A-2' FIRE SUPPRESSION REQUIRED
2ND FLOOR USE 'B' FIRE SUPPRESSION NOT REQUIRED
ZONING DISTRICT = C-3
TOTAL ACREAGE: .1
TOTAL SF OF NON RESIDENTIAL USE: 5,732 SF
TOTAL DENSITY AND NUMBER OF UNITS, PROPOSED AND PERMISSIBLE, FOR RESIDENTIAL USE: 0
IMPERVIOUS SURFACE RATIO CALCULATION:
PROPOSED: 3,923.6 SF, 92.5%
PERMITTED: WHERE THE APPLICANT IS FOR NEW DEVELOPMENT OF A VACANT LOT, THE MAXIMUM IMPERVIOUS SURFACE ON THE LOT MAY BE 100% WHERE STORM WATER FACILITIES ARE AVAILABLE AND HAVE SUFFICIENT CAPACITY TO ACCEPT THE RUN OFF FROM THE LOT.
FLOOR AREA RATIO CALCULATION:
PROPOSED: 6,341 SF, 149.2%
PERMITTED: 8,500 SF, 200%
TOTAL NUMBER OF SPACES PROVIDED: 3 SPACES AT THE FRONT OF THE PROPERTY
2 EXISTING STREET TREES TO REMAIN, NO PROPOSED TREES TO BE PLANTED

SITE PLAN

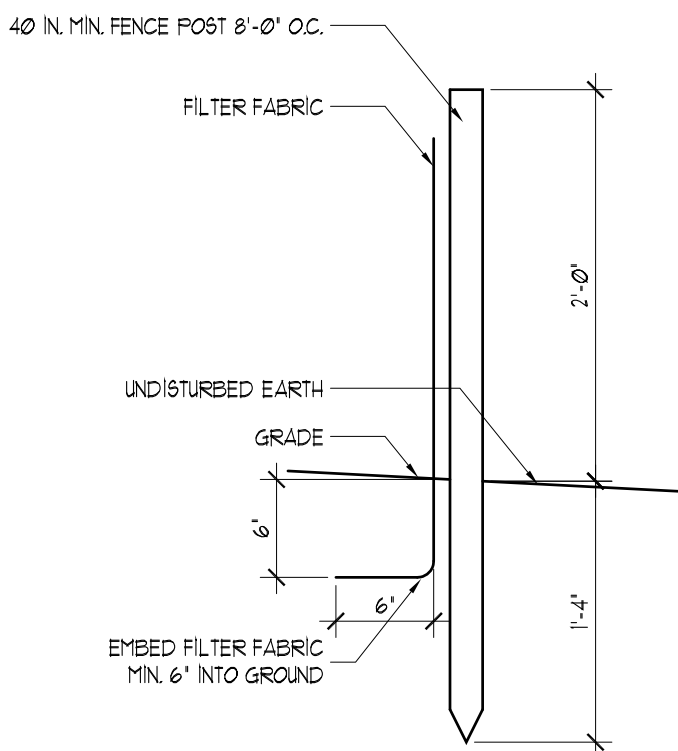
NOTE: WHERE THE APPLICANT IS FOR NEW DEVELOPMENT OF A VACANT LOT, THE MAXIMUM IMPERVIOUS SURFACE ON THE LOT MAY BE 100% WHERE STORM WATER FACILITIES ARE AVAILABLE AND HAVE SUFFICIENT CAPACITY TO ACCEPT THE RUN OFF FROM THE LOT.
NOTE: TRASH CORAL TO BE SCREENED AND USED FOR ALL COMMERCIAL SPACES ON THE PROPERTY
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ELEVATION (FENCE DETAIL)
1/4\"/>

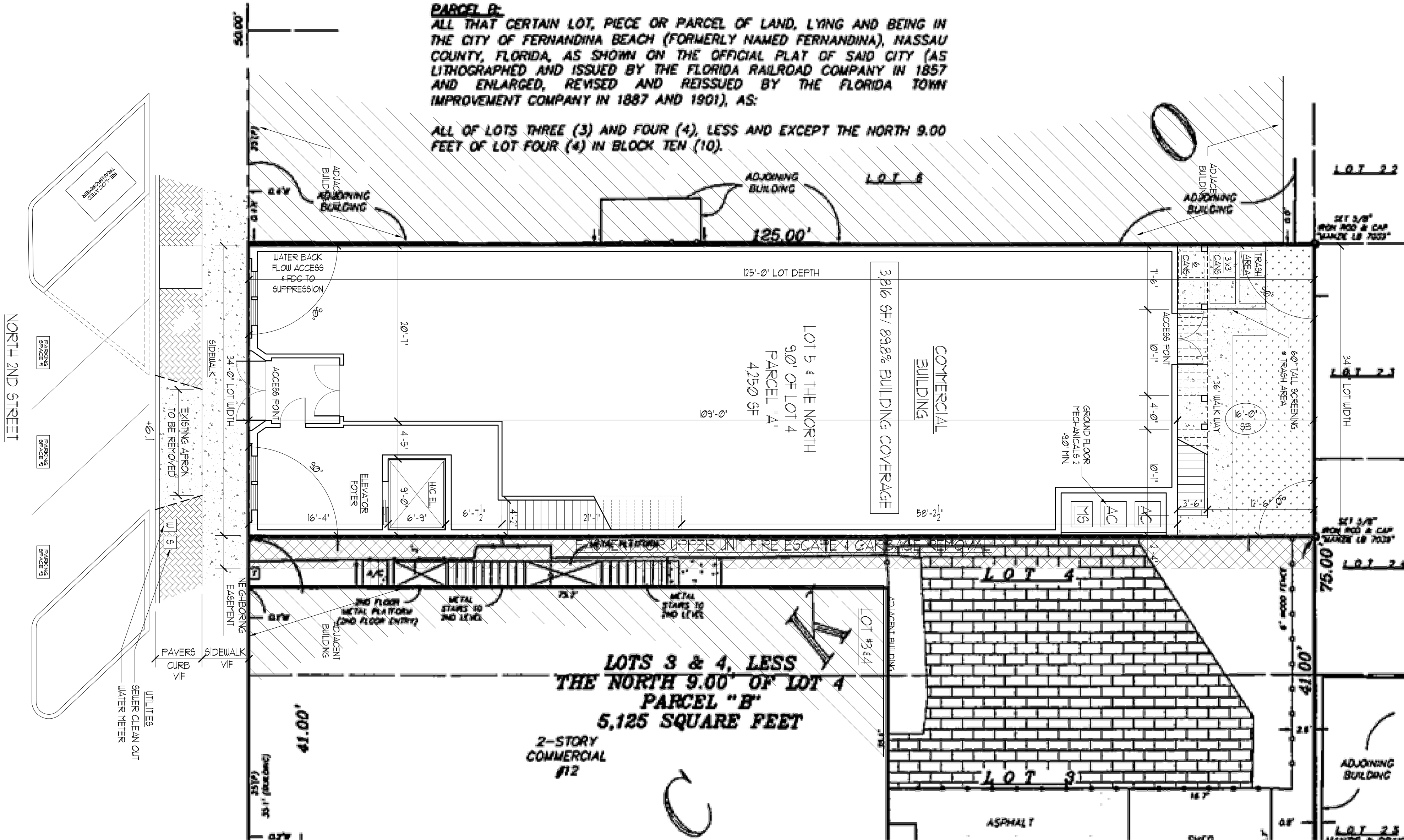


SECTION: CURB & SIDEWALK
NOTE: MAX. CROSS SLOPE 2%



SILT FENCE DETAIL
NTS

NOTES:
1. FILTER FABRIC SHALL BE FASTENED SECURELY TO POSTS WITH TIES SPACED EVERY 24\"/>



PARCEL A:

ALL THAT CERTAIN LOT, PIECE OR PARCEL OF LAND, LYING AND BEING IN THE CITY OF FERNANDINA BEACH (FORMERLY NAMED FERNANDINA), NASSAU COUNTY, FLORIDA, AS SHOWN ON THE OFFICIAL PLAT OF SAID CITY (AS LITHOGRAPHED AND ISSUED BY THE FLORIDA RAILROAD COMPANY IN 1857 AND ENLARGED, REVISED AND REISSUED BY THE FLORIDA TOWN IMPROVEMENT COMPANY IN 1887 AND 1901), AS:

ALL OF LOT FIVE (5) AND THE NORTH 9.00 FEET OF LOT FOUR (4) IN BLOCK TEN (10).

PARCEL B:

ALL THAT CERTAIN LOT, PIECE OR PARCEL OF LAND, LYING AND BEING IN THE CITY OF FERNANDINA BEACH (FORMERLY NAMED FERNANDINA), NASSAU COUNTY, FLORIDA, AS SHOWN ON THE OFFICIAL PLAT OF SAID CITY (AS LITHOGRAPHED AND ISSUED BY THE FLORIDA RAILROAD COMPANY IN 1857 AND ENLARGED, REVISED AND REISSUED BY THE FLORIDA TOWN IMPROVEMENT COMPANY IN 1887 AND 1901), AS:

ALL OF LOTS THREE (3) AND FOUR (4), LESS AND EXCEPT THE NORTH 9.00 FEET OF LOT FOUR (4) IN BLOCK TEN (10).

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BISTRO 2020
14 NORTH 2ND STREET
LOT: 5 BLOCK: 10
FERNANDINA BEACH, FL.

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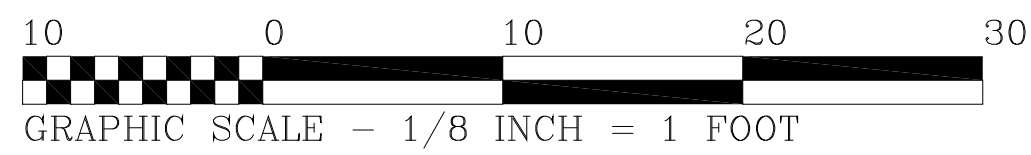
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FLOOD PLAN

NOTE: ALL AREAS TO BE DRY FLOOD PROOFED. NO FLOOD VENTS TO BE USED. NO WET FLOOD PROOFING NEEDED



GENERAL NOTES:

1. ALL CONSTRUCTION SHALL CONFORM WITH THE PROVISIONS OF THE CURRENTLY ADOPTED FLORIDA BUILDING CODE, OSHA AND ALL STATE AND LOCAL LAWS AND THEIR SUPPLEMENTS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION OF ANY UTILITIES IN THE VICINITY OF THE CONSTRUCTION AND SHALL COMPLETE THE CONSTRUCTION IN A MANNER WHICH WILL PREVENT DAMAGE TO THEM. SHOULD ANY DAMAGE TO SUCH UTILITIES OCCUR, THE CONTRACTOR SHALL REPAIR THE DAMAGE AT ITS OWN EXPENSE AND TO THE SATISFACTION OF THE OWNER.
3. THE CONTRACTOR SHALL FIELD CHECK AND VERIFY ALL DIMENSIONS AND ELEVATIONS OF EXISTING WORK PRIOR TO THE START OF FABRICATION AND CONSTRUCTION.
4. IT IS THE RESPONSIBILITY OF THE ENGINEER OF RECORD TO ENSURE THE BUILDING'S STRUCTURE IS CAPABLE TO WITHSTAND THE IMPOSED LOADS APPLIED TO THE STRUCTURE AS NOTED ON THESE PLANS.
5. THESE PLANS ARE INTENDED FOR THE PURPOSES OF IDENTIFYING COMPLIANCE WITH FEMA 24-14 AND NFIP FLOOD PROOFING REQUIREMENTS IN ACCORDANCE WITH 44 CFR 603 AND FEMA 17-3, ENSURING THE PERFORMANCE OF THE SPECIFIED WET AND DRY FLOODPROOFING PROVISIONS AS NOTED ON THESE PLANS SHALL BE THE RESPONSIBILITY OF THE INSTALLATION SUBCONTRACTORS.

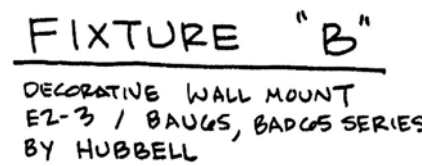
PERFORMANCE

FLOOD BARRIERS ARE DESIGNED TO CONTROL SHORT TERM HYDROSTATIC, HYDRODYNAMIC AND DEBRIS IMPACT LOADS UP TO THE DESIGNED WATER HEIGHT NOTED ON THESE DRAWINGS ALONG WITH ALL LOAD REQUIREMENTS AS NOTED IN FEMA TECHNICAL BULLETIN 3-93. ALL LOADS ARE TRANSFERRED TO THE BUILDING STRUCTURE. ALWAYS ALLOW FOR CONTROL OF ANY LEAKAGE OR CONDENSATION THAT WILL OCCUR DURING FLOODING CONDITIONS. IN APPLICATIONS WHERE THE FLOOD PANEL GASKETS CONTACT THE EXISTING BUILDING STRUCTURE, FLOORS, ETC. ALL SURFACES MUST BE SOUND, FLAT/LEVEL, AND WITHOUT BLEMISH FOR BEST PERFORMANCE.

DESIGN CRITERIA

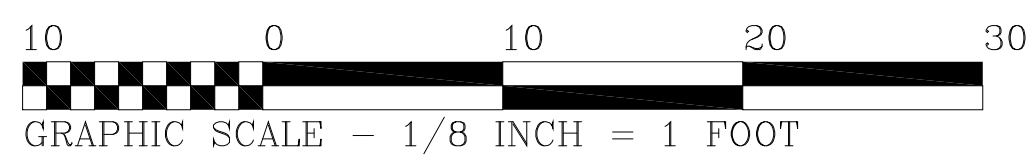
PANELS ARE TO BE DESIGNED TO WITHSTAND THE FOLLOWING LOADS:

- 1) HYDROSTATIC LOADS TO ELEVATION AS INDICATED ON DRAWINGS BASED ON HYDROSTATIC WATER LOAD (64 PCF).
- 2) HYDRODYNAMIC LOADS ON VERTICAL SURFACES OF MOVING FLOODWATERS AT 5 FEET PER SECOND
- 3) DEBRIS IMPACT LOAD OF A 1000 LB OBJECT FOR A 1 SECOND DURATION

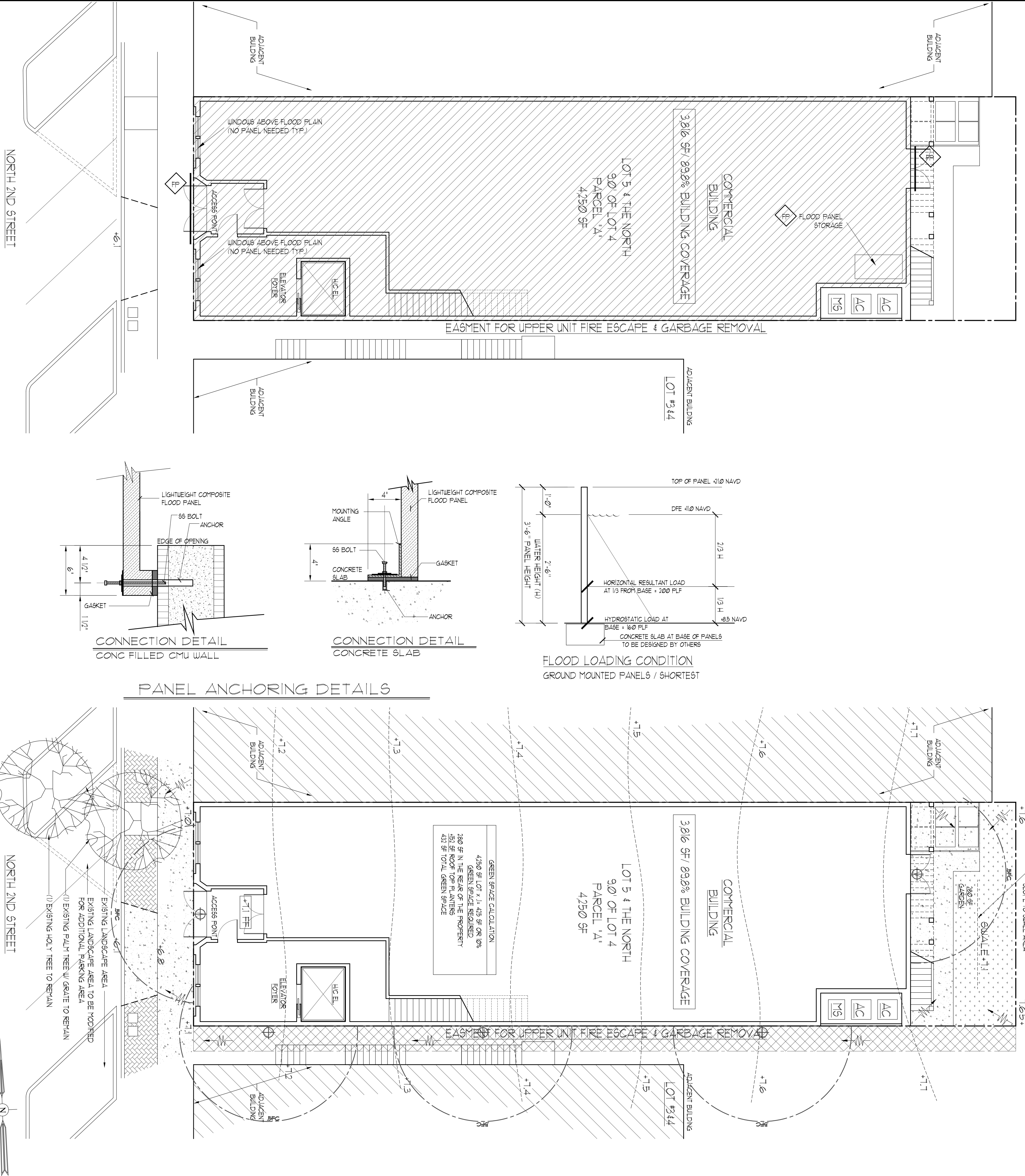
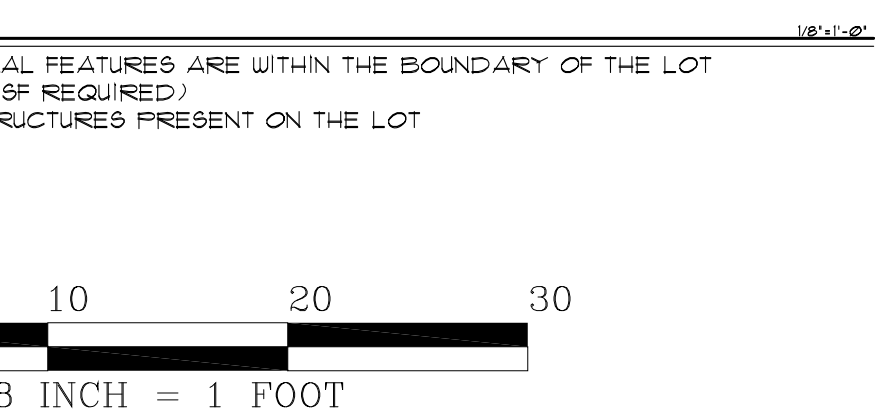
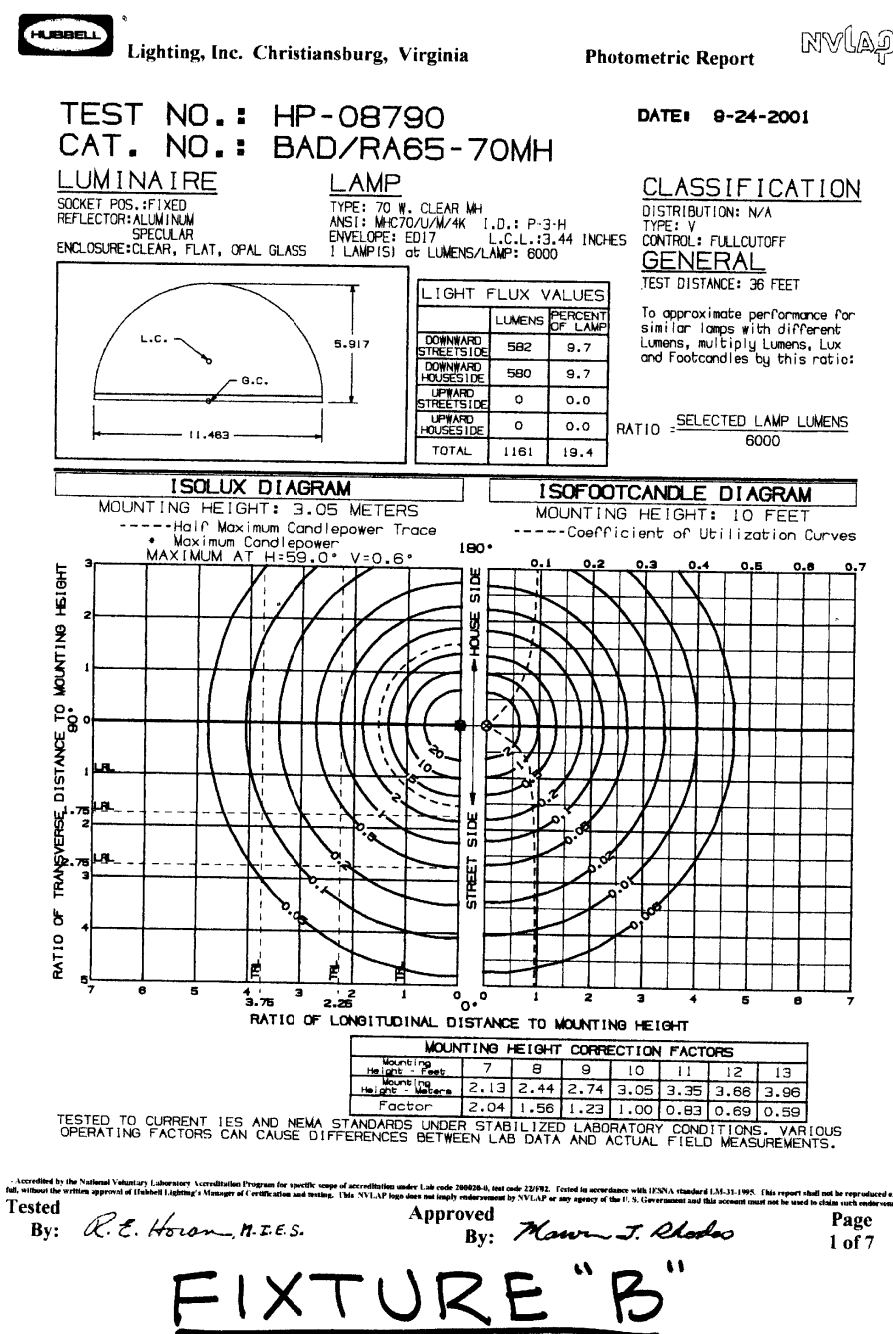


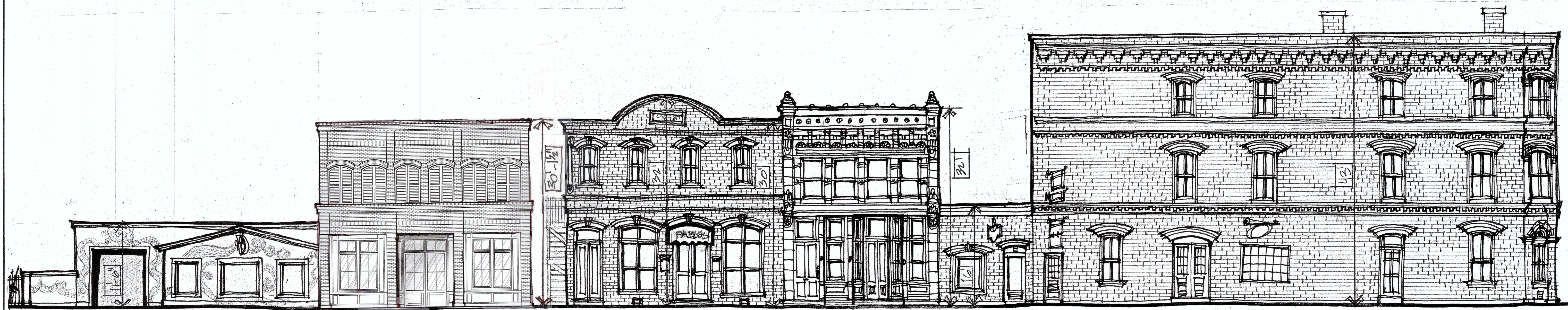
LANDSCAPING PLAN

NOTE: NO STREAMS, BODIES OF WATER, NATURAL FEATURES ARE WITHIN THE BOUNDARY OF THE LOT
NOTE: 472 SF PROPOSED GREEN SPACE (425 SF REQUIRED)
NOTE: NO EXISTING TREES OR PERMANENT STRUCTURES PRESENT ON THE LOT



FEMA FLOOD PLAN INFO	
FLOOD ZONE	X20
FIRM MAP/PANEL NUMBER	12083C0131G
MAP REVISED	AUGUST 01, 2011
BASE FLOOD ELEVATION (BFE)	100-YR FLOODPLAIN +3.0' ELEV NAVD





NORTH SECOND STREET ELEVATIONS

BISTRO 2020

12 NORTH SECOND STREET

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BISTRO 2020
12 NORTH 2ND STREET
LOT: 5
FERNANDINA BEACH, FL.

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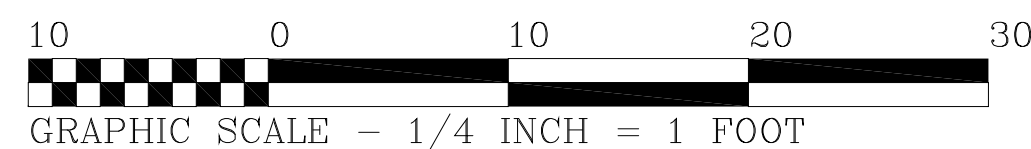
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Scale: 1/8" = 1'-0"
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Checked: GUT
File No: 15018
Dwg. No. A-1



BUILDING HEIGHTS
30.12' (OUR BUILDING)
ADJACENT BUILDINGS
115'
32'
32'
16'
43'
164.62' TOTAL / 6.2143' AVG.
(PROP. HEIGHT NEEDS TO BE WITHIN 10% OF AVG. 30.11' MAX.)

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BISTRO 2020
14 NORTH 2ND STREET
LOT: 5 BLOCK: 10
FERNANDINA BEACH, FL.

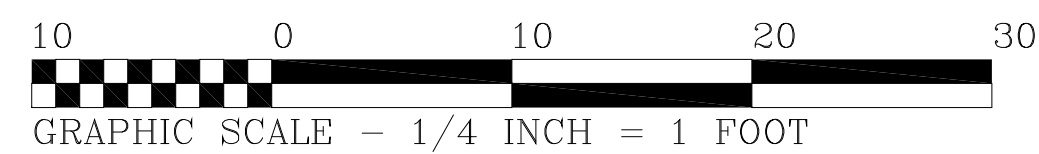
DESIGNS PROVIDED BY ALL TRADES
ARCHITECTS ARE INDEPENDENT OF SERVICE
AND NOT A PART OF THE CONTRACT. THE
ARCHITECT SHALL BE RESPONSIBLE FOR THE
DESIGN AND CONSTRUCTION OF THE BUILDING.
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N.J. PE, RA; Pa. PE, RA; Fla. PE
Andrew C. Bechtold
N.J. RA; Md. RA; Fla. RA; Ga. RA
David W. Shorten
N.Y. RA
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Scale: 1/4" = 1'-0"	Dwg. No. 15018	
Drawn: DJR, WAG	Checked: GWT	



- SMOOTH STUCCO W/ CUT JOINTS

AC UNITS W/ MINI SPLIT
SCREENED BY BRICK

BRICK VENEER AT THE
REAR & EASEMENT
SIDES

GEORGE WRAY THOMAS

GEORGE WRAY THOMAS
Professional Engineer

G. W. Thomas
FV PF 62785
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A. C. Bechtold

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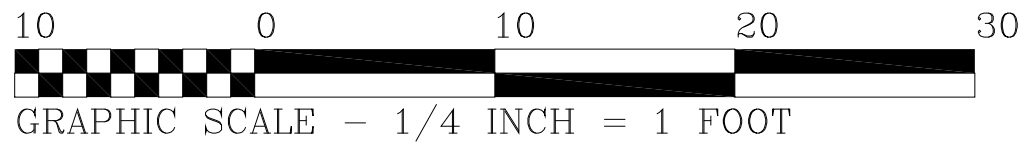
Andrew C. Bechtold J. RA: Md. RA; Fla. RA; Ga. RA	David W. Shorten N.Y. RA
--	-----------------------------

ANDREW C. BECHTOLD
Registered Architect

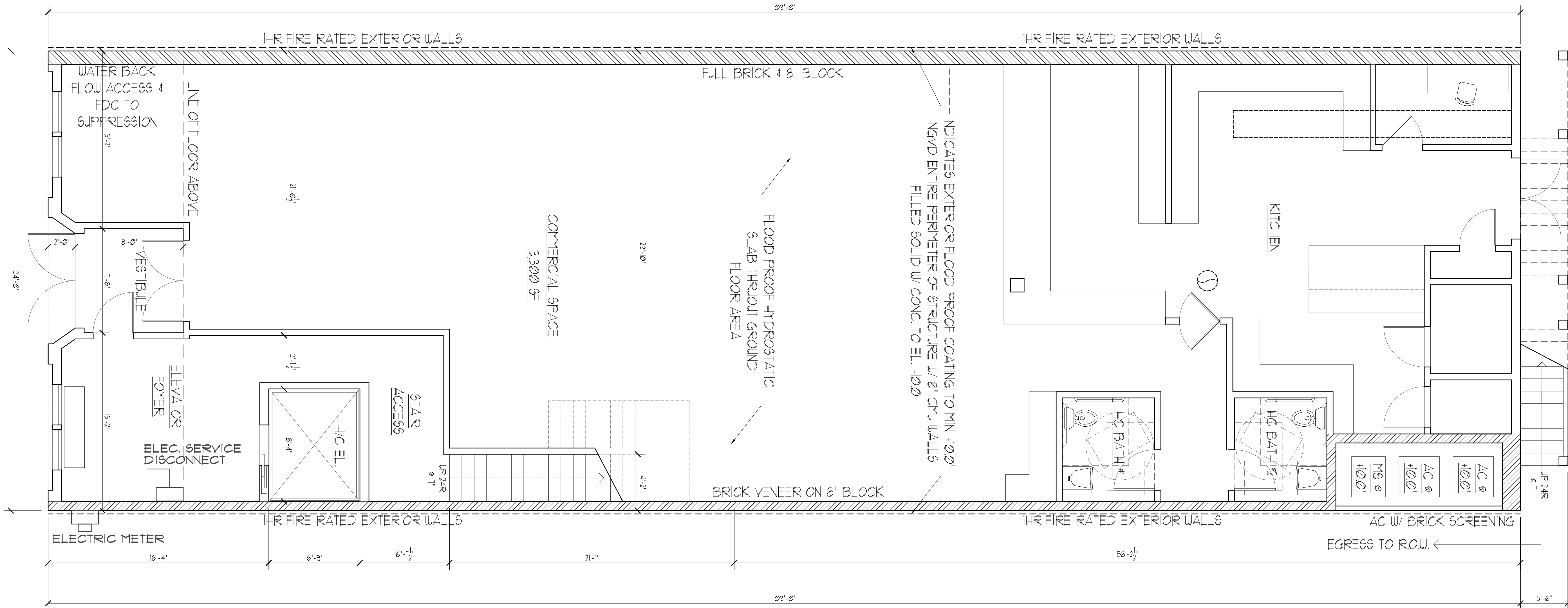
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Drawn: D.R. WAG	Dwg. No.
Checked: GWT	A=4



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N.Y. RA

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N.Y. RA

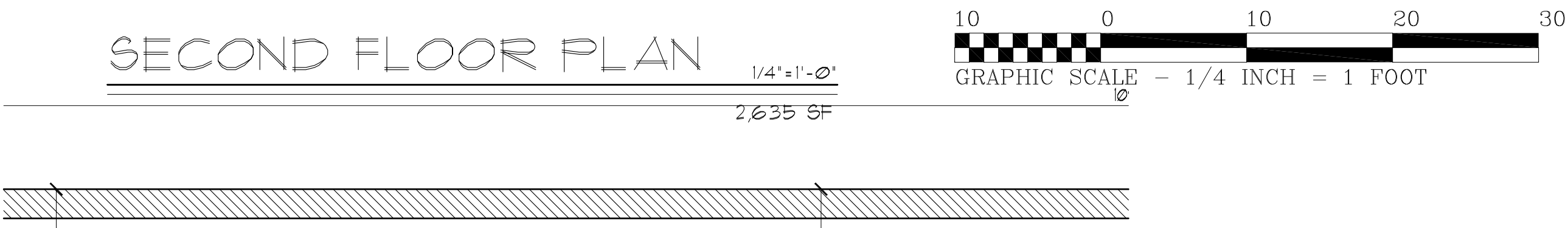
George Wray Thomas
Professional Engineer

George Wray Thomas
Professional Engineer

George Wray Thomas
Professional Engineer

Revisions:

Date: 1-15-20
Scale: 1/4" = 1'-0"
Drawn: DJR, WAG
Checked: GW
File No: 15018
Dwg. No. A-5

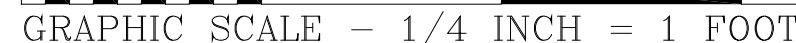

$$\frac{1/4' = 1' - 0'}{2,635 \text{ SF}}$$

GRAPHIC SCALE - 1/4 INCH = 1 FOOT

EGRESS STAIRS REQUIRED

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FERNANDINA BEACH, FL.


$$|/4' = |' - \emptyset'$$


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AR 95123
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General Notes and Specifications

All Construction shall conform to the current: 2014 Florida Building Code, ASCE 2405 Flood Resistant Design Construction

Drawings and Design are the property of the engineer and shall not be reproduced without expressed written consent of the engineer.

Contractor shall check all dimensions and verify all existing conditions before proceeding with the work. The contractor is responsible to report to the engineer any omissions and inconsistencies within these documents. The engineer shall be notified, immediately, of any changes to the plans as specified. Any deviations from these plans as specified is strictly prohibited and must be coordinated through the engineer. DO NOT SCALE DRAWINGS.

Shop Drawing Submittal

The contractor is required to submit to the engineer for approval all shop drawings related to the design. Fabrication and installation of any material and equipment prior to the approval of shop drawings not permitted.

Flashing
Flashing provided 26 ga. Economy stainless steel (s s) flashing over all windows and doors in exterior walls. Provide 26 ga. ss pan flashing at thresholds and sills of all exterior doors. Provide 26 ga. ss flashing at ridges, valleys, and drip edges of roof. Provide termite shield on top of all foundation walls. Provide wall flashing, base, cap, thru-wall and counter flashing, etc. as required to prevent entrance of moisture and water. Provide caulking at head, jamb and sills. Caulk all vertical and horizontal joints at trim, openings and penetrations, joints, etc.

Stair and Railings
Railings shall be constructed so that a 4" diameter ball cannot pass through.

Guard rails shall be capable of resisting a concentrated load of 200 lbs/ft along the top railing and a uniform load of 100 lbs/ft. Intermediate rails shall be capable of a horizontal concentrated load of 200 lbs/ft.

Stairs
(a) All risers shall be 6 3/4" max.
(b) All treads shall be 11" min.
(c) Min. width of stairs shall be 44".
(d) Landing depth shall be min. 44".
(e) Min. head room clearance 6'-8".
(f) Guard rails shall be 42" high min.
(g) Handrails shall be min. 1 1/4" diameter to 2" diameter max. and shall be mounted at 34" to 38" above tread nosing.

(h) All exterior stair lumber shall be pressure treated.
(i) All risers shall be closed.

Materials Below Base Flood Elevation
Exterior wall finishes shall be stucco. Interior fire rated walls shall be Dur-O-Rock or Hardiplank. Interior non-rated fire walls shall be plaster, wonder board, Dur-O-Rock or Hardiplank up to 12" above BFE. Framing below BFE shall be PT. Insulation below BFE shall be rigid polystyrene type insulation.

Anchors
(a) Sheathing to lap floor box horizontally and shall extend equidistant on wall above as to wall below.
(b) On barrier islands, use specified hurricane clips and anchors to hold down floor joists and roof rafters at all levels. Simpson G105 (ZMAX) or equal for interior areas and stainless steel for ALL exterior applications. NO EXCEPTIONS.
(c) All anchors that are in contact with any pressure treated wood shall be stainless steel. - NO EXCEPTIONS.
(d) All nails used in galvanized hardware must be galvanized and all all nails used in stainless steel hardware must be stainless steel. - NO EXCEPTIONS.

(e) All specified hangers, clips, ties, hold downs, etc. are "Simpson Strong-Tie" brand. Before substituting another brand, confirm load capacities based on reliable published testing data or calculations. All substitutions from the specified hangers, clips, ties, hold downs, etc. must be submitted the Architect for evaluation and written approval prior to installation.

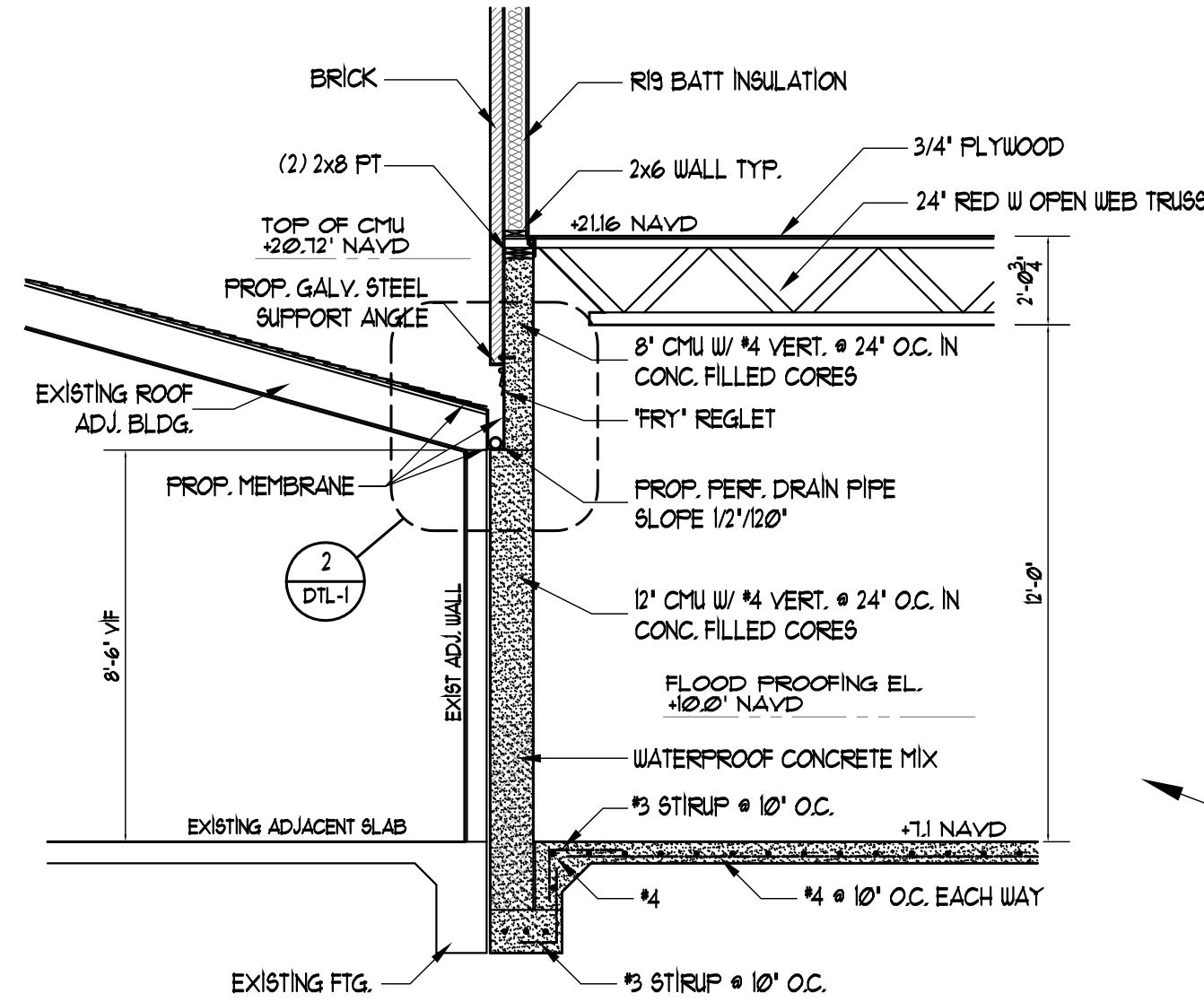
DESIGN LIVING LOADS
Live Loads 100 psf
Dead Loads 10 psf wood
100 psf concrete
Wind Load 140 MPH Ultimate Load
110 MPH Design Load

The contractor shall perform work in a safe and non-hazardous manner. Shoring and structural supports shall be securely in place prior to any demolition of walls.

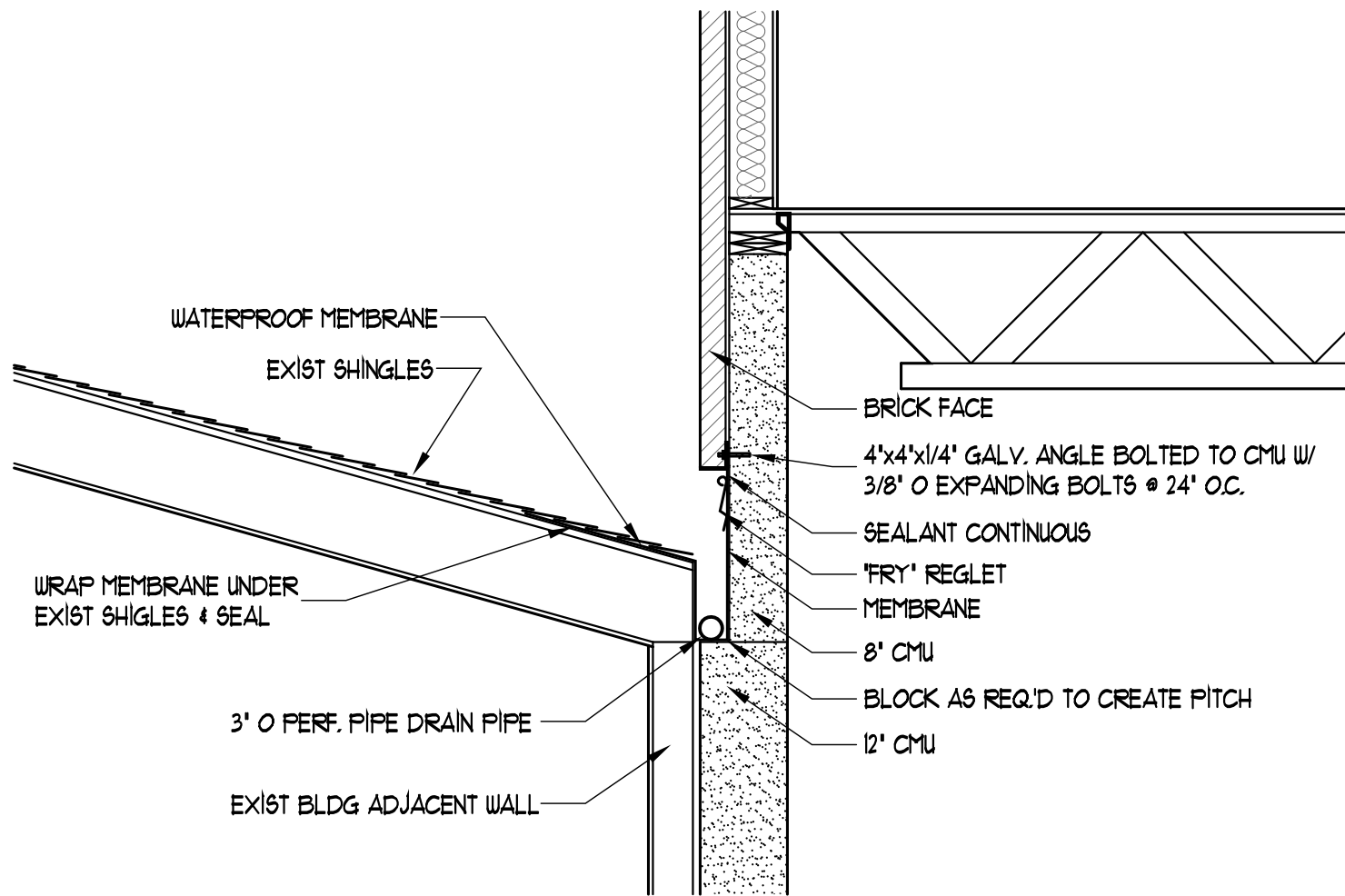
Contractor is responsible to keep site and structure free from miscellaneous debris and equipment and shall maintain the same to a clean, non-hazardous, workable environment.

Wood Framing
Wood spans of structural wood members are based on a minimum fiber stress of 675 + lb and a minimum elastic modulus of 1300000 (E) such as Hem-Fir No. 2 or better. No utility grade or non stress grade lumber may be used structurally.

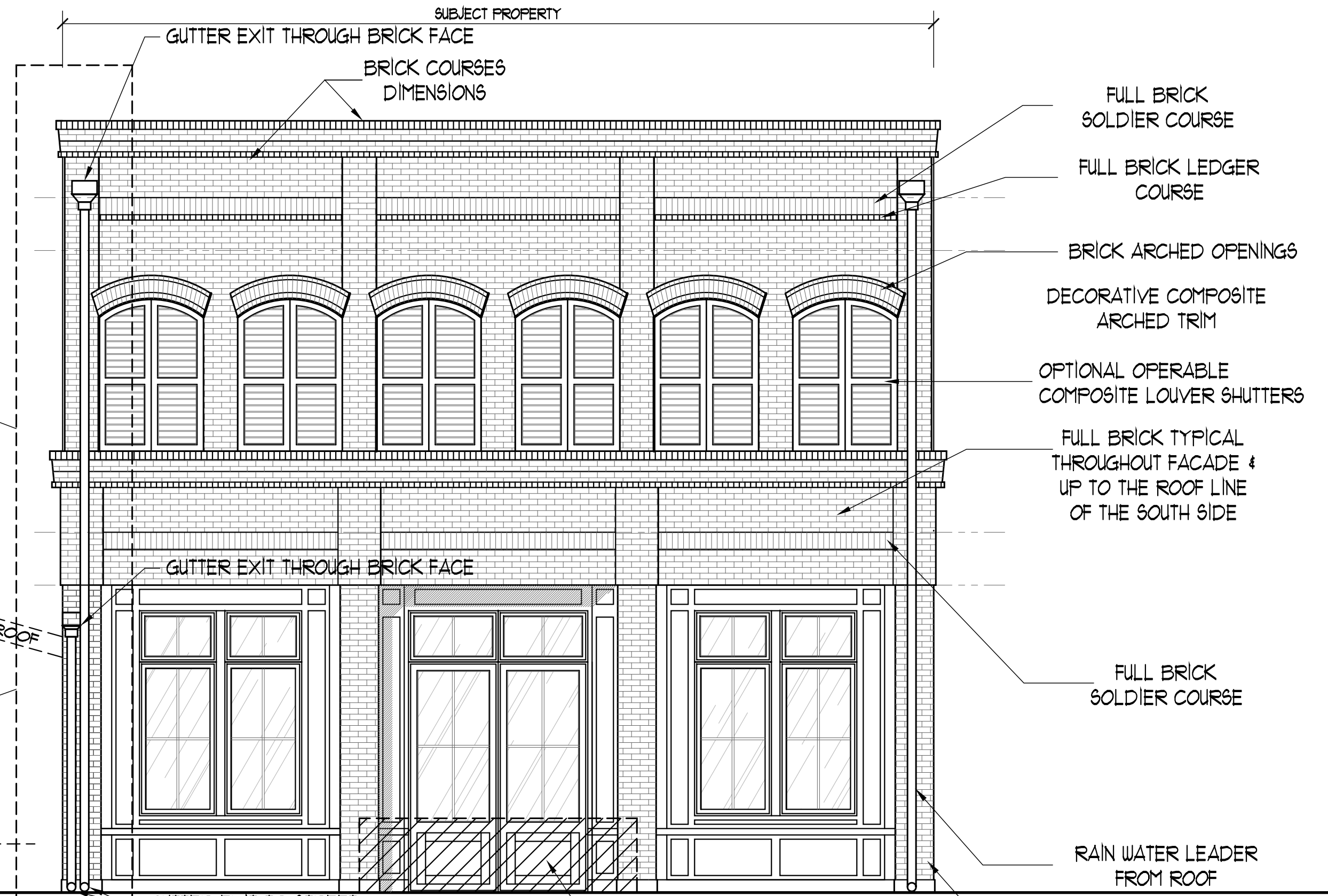
(a) Bridging Joists shall have one row of bridging (1x3", metal or solid) for every 8'0" of span. Ceiling joists may have strong backs in lieu of bridging.
(b) All lumber and all plates along with wall studs and framing lumber in contact with CMU, concrete and which is below BFE, shall be pressure treated in accordance with AIA/PA 14.
(c) Fire stopping shall be as, but not limited to, kitchen cabinets, walls, masonry roofs, soffits and any concealed space.
(d) All field cut ends, notches, and drill holes in all PT lumber shall be field treated with a wood preservative in accordance with AIA/PA 14.
(e) All posts which support beams loads shall be continuous through all floor framing. Solid wood packing of equal material and size of supported posts shall be installed within the floor framing cavity at all post locations, including windows and doors.
(f) All PT lumber may have factory applied coating or may have field applied coating by No-Burn



1 DETAILED WALL SECTION



2 GUTTER DETAIL



2nd STREET ELEVATION

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AK 95123

GEORGE WRAY THOMAS
Professional Engineer

August 17, 2020

Mr. Jacob Platt
Senior Planner
City of Fernandina Beach
204 Ash Street
Fernandina Beach, FL 32034

RE: St. Michaels Parish Office
ZC 68003

Dear Mr. Platt,

Enclosed for approval of the above referenced project are the following items:

- Revised Civil Site Plans
- Revised LA Plans
- _____

In addition to the above documentation, below are our responses to Staff's comments dated July 31, 2020.

Planning

1. The Parking lot lighting should be a bollard design versus the proposed pole.

RESPONSE: *Parking lot lighting to remain as designed with HDC approved light fixtures per cut sheet submitted by Miranda Architects.*

2. All lighting should be designed, to be shielded from the public right of way and the adjoining residential properties.

RESPONSE: *Post light fixture to be installed with required shielding per light fixture cut sheet submitted by Miranda Architects.*

Stormwater

1. The Underground Stormwater Exfiltration system detail on sheet C6 notes that filter fabric is to be placed "as required" to prevent migration of native fines into backfill material. Please specify filter fabric at all boundaries of the drainage system backfill. Also recommend specifying filter fabric wrap around perforated pipes to prevent sedimentation of the backfill from the stormwater flow and to extend the service life of the system.

RESPONSE: *Please see sheet C9 and C10 the exfiltration trench was changed to Stormtech chambers.*

2. Please clarify if there are accommodations to access the exfiltration system for inspection and maintenance.

RESPONSE: *Please see sheet C9 and C10 the exfiltration trench was changed to Stormtech chambers.*

3. Please also note that periodic maintenance of this system to remove accumulated sediment is the responsibility of the property owner.

RESPONSE: *Please see note 3 on sheet C5.*

4. Please specify grading of shallow swales within the right of way between driveways. This will help address runoff from the adjacent roadway, and deter parking in this area. Can be done in conjunction with suggested tree plantings.

RESPONSE: *Please see sheet C5 for proposed swale and grading.*

Streets

1. Sidewalk connection and crosswalk needs to be added for the eastern sidewalk across Broome Street.

RESPONSE: *Please see sheet C4 for crosswalk across Broome St.*

2. All crosswalks need to be thermoplastic striping.

RESPONSE: *Please see note 3 on sheet C4*

3. Is a retaining wall required to maintain sidewalk slope on the western side of the relocated Liberty Billings house?

RESPONSE: *There is no retaining wall required. Please see sheet C5.*

4. Do Not Enter One Way Sign need to be located on private property, just outside of the right of way.

RESPONSE: *Please see sheet C4 for Do Not Enter One Way Sign.*

5. Sidewalks along Broome and North Fifth Street need to be stamped with Hexagonal pattern.

RESPONSE: *Please see note 2 located on sheet C4.*

Trees

1. Plan looks good 7/6/2020 DH. In the ROW between the parking lot and N 5th Street, a stormwater swale was discussed during TRC. Whether this happens or not, consider planting southern magnolias in this space to eventually match the ones across the street. From what I could gather on the property appraiser's website, the water lines run on the other side of the street underneath the mature magnolias. Also, with the overhead line going underground, this could help to break up compacted soils.

RESPONSE: *Due to the location of the utilities and the swale we are not proposing the additional plantings at this time.*

Should you have any questions or require any additional information, please contact our office.

Sincerely,
ZEV COHEN & ASSOCIATES, INC.

Kristopher Rowley, P.E.
Project Manager

Mr. Jacob Platt
August 17, 2020
ZC 68003
Page **3** of **3**

FILE

SMCC PARKING LOT- PHASE 2

CITY OF FERNANDINA BEACH - NASSAU COUNTY, FL

FINAL ENGINEERING PLANS

OWNER:

ST. MICHAEL CATHOLIC CHURCH
505 BROOME ST,
FERNANDINA BEACH, FL 32034
904-261-3472
CONTACT PERSON: WALT EDWARDS

CIVIL ENGINEER:

ZEV COHEN AND ASSOCIATES
300 INTERCHANGE BLVD, STE C
ORMOND BEACH, FL 32174
386-677-2482
CONTACT PERSON: KRIS ROWLEY, P.E.
e-mail: krowley@zevcohen.com

SURVEYOR:

MANZIE AND DRAKE LAND SURVEYING
117 SOUTH NINTH ST.
FERNANDINA BEACH, FL 32034
904-491-5700
CONTACT: MICHAEL A. MANZIE P.L.S.

ARCHITECT:

MIRANDA ARCHITECTS
309 1/2 CENTRE ST., SUITE 206
FERNANDINA BEACH, FL 32034
904-261-4586
FAX NUMBER
CONTACT PERSON: JOSE MIRANDA
e-mail: jmiranda@mirandaarchitects.com

LANDSCAPE ARCHITECT:

ZEV COHEN AND ASSOCIATES
300 INTERCHANGE BLVD
ORMOND BEACH, FL 32174
386-677-2482
CONTACT PERSON: JAKE STEHR
e-mail: jstehr@zevcohen.com

PROJECT DESCRIPTION:

THIS PROJECT INCLUDES THE CONSTRUCTION OF A 40 SPACE PARKING LOT AND ASSOCIATED INFRASTRUCTURE.

SITE INFORMATION:

SITE ADDRESS:	222N 5TH STREET, FERNANDINA BEACH, FL 32034
PROJECT AREA:	.689 AC
TAX PARCEL I.D. #:	00-00-31-1800-0032-0030
EXISTING ZONING:	R-2
PROPOSED ZONING:	R-2
EXISTING LAND USE:	PARKING LOT AND BUILDINGS
PROPOSED LAND USE:	PARKING LOT AND BUILDINGS
EXISTING FUTURE LAND USE:	MEDIUM DENSITY RESIDENTIAL
SETBACKS:	
FRONT:	25 FT
SIDE:	10% OF LOT WIDTH
REAR:	20 FT
PERIMETER:	453.13 FT
REQUIRED LANDSCAPE BUFFER(S):	NO BUFFER REQUIRED
	NO BUFFER REQUIRED
	NO BUFFER REQUIRED
MAXIMUM BUILDING LOT COVERAGE:	45% OF THE LOT
MAXIMUM BUILDING HEIGHT	35 FT
UTILITIES:	CITY OF FERNANDINA BEACH

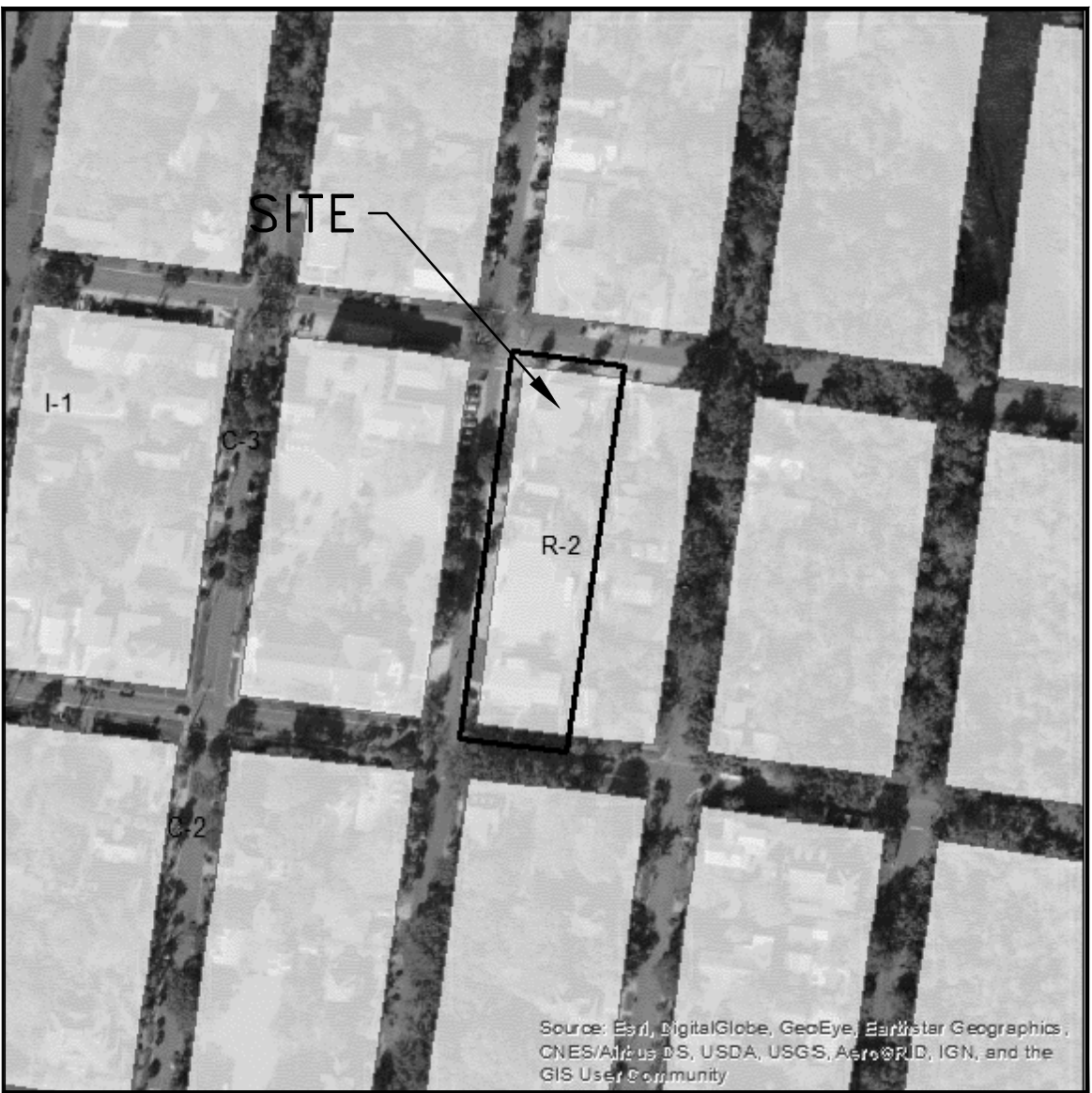
LAND USE TABLE:

	ACREAGE	PERCENTAGE
PROPOSED IMPROVEMENTS:		
BUILDING(S)	.023 AC	3.33%
PAVEMENT & SIDEWALK	.310 AC	45.0%
LANDSCAPE/OPEN SPACE	.356 AC	51.7%
TOTAL PERVIOUS	.356 AC	51.7%
TOTAL IMPERVIOUS	.333 AC	48.3%



VICINITY MAP

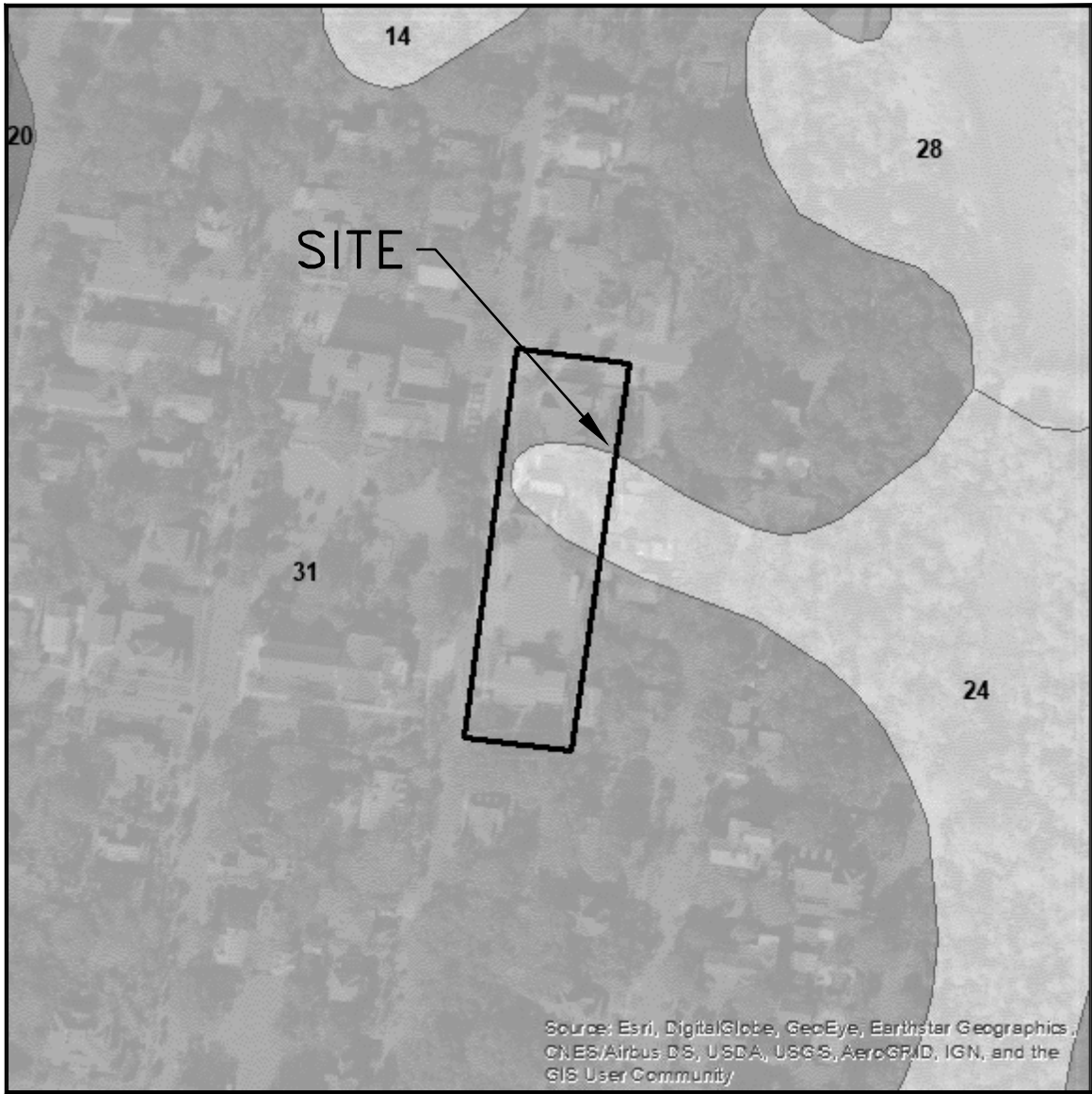
SCALE: 1" = 1000'



ZONING MAP

SCALE: 1" = 200'

CURRENT ZONING FOR THIS SITE IS: R-2



SOILS MAP

SCALE: 1" = 200'

THE SITE LIES WITHIN THE FOLLOWING NASSAU COUNTY SOIL CLASSIFICATIONS:
17-URBAN LAND; 20 ORTEGA FINE SAND, 0 TO 5 PERCENT SLOPES; 24-KINGSFERRY FINE SAND; 31- KERSHAW FINE SAND, 2 TO 8 PERCENT SLOPES



FLOOD ZONE MAP

SCALE: 1" = 200'

THE PROPERTY LIES IN:
FLOOD ZONE X PER FEMA MAPS 12089C0237G EFFECTIVE 8/2/2017

SHEET INDEX:

- C1 COVER SHEET
- C2 CONSTRUCTION NOTES
- C3 DEMOLITION & EROSION CONTROL PLAN
- C4 GEOMETRY, SIGNAGE & STRIPING PLAN(S)
- C5 PAVING, GRADING & DRAINAGE PLAN(S)
- C6-C10 CONSTRUCTION DETAILS

- TP1 TREE PROTECTION PLAN
- LA1 LANDSCAPE PLAN

LEGAL DESCRIPTION:

ALL OF THAT CERTAIN LOT, PIECE OR PARCEL OF LAND, LYING AND BEING IN THE CITY OF FERNANDINA BEACH (FORMERLY NAMED FERNANDINA), NASSAU COUNTY, FLORIDA, AS SHOWN ON THE OFFICIAL PLAT OF SAID CITY (AS LITHOGRAPHED AND ISSUED BY THE FLORIDA RAILROAD COMPANY IN 1857 AND ENLARGED, REVISED AND REISSUED BY THE FLORIDA TOWN IMPROVEMENT COMPANY IN 1887 AND 1901) KNOWN AND DESCRIBED AS FOLLOWS:

LOTS 1,2,3,4,5,6,7 & 16, BLOCK 32.



CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL
PLANNING
TRANSPORTATION

NO. DATE BY SUBMITTALS / REVISIONS
1 08-10-20 KR COMMENTS DATED 07-28-2020
2 08-10-20 KR REVISED PER CITY COMMENTS RECEIVED 07-31-2020
3 08-14-20 TR REVISED PER ARCHITECT'S COMMENTS

SMCC PARKING LOT- PHASE 2
FINAL ENGINEERING PLANS
COVER SHEET

PROJECT NO: ZC 68003
DESIGNED BY: SHK
DRAFTED BY: SHK
CHECKED BY: KTR

DRAWING FILE: 01_68003COV
XREFS: 68003BAS, PH2.DWG
XREFS: 68003SURV, PH2.DWG

Randy Hudak

Digitally signed by Randy Hudak
DN: cn=Randy Hudak,
ou=A01410D000000371609E622000001C05,
o=Zev Cohen and Associates Inc, c=US
Date: 2020.08.18 13:37:58-0400

KRISTOPHER ROWLEY, P.E. NO. 84263
NOT VALID WITHOUT SEAL

SHEET: C1 OF 10

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY'S LAND DEVELOPMENT CODE REQUIREMENTS, STANDARD CONSTRUCTION DETAILS & STANDARD SPECIFICATIONS, LATEST EDITIONS.
2. ALL DRAINAGE STRUCTURES AND OTHER IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION.
3. SHOP DRAWINGS AND CERTIFICATIONS FOR ALL MATERIALS AND STRUCTURES ARE REQUIRED. THE CONTRACTOR SHALL REVIEW AND SIGN SHOP DRAWINGS. THE CONTRACTOR SHALL SUBMIT REVIEWED SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING THE MATERIALS REQUIRED FOR CONSTRUCTION.
4. CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL REQUIRED PERMITS. THE CONTRACTOR SHALL MAINTAIN COPIES OF ALL RELEVANT PERMITS AND CONSTRUCTION DOCUMENTS AVAILABLE ON THE JOB SITE AT ALL TIMES.
5. CONTRACTOR TO MAINTAIN THE SITE IN A SAFE AND SECURE MANNER TO PROTECT PUBLIC SAFETY AND THE CONDITIONS OF THE IMPROVEMENTS.
6. THE CONTRACTOR SHALL MAINTAIN, AT THE JOB SITE, A RECORD COPY OF ALL CONSTRUCTION DRAWINGS AND SPECIFICATIONS ON WHICH ALL FIELD CHANGES ARE TO BE SHOWN. THESE CHANGES ARE TO BE INCORPORATED IN THE "AS-BUILT" SURVEY FURNISHED TO THE ENGINEER.
7. SHOULD CONDITIONS VARY FROM THOSE SHOWN ON THESE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD PRIOR TO CONTINUING CONSTRUCTION.
8. ANY FIELD MODIFICATIONS OR DEVIATIONS TO THESE CONSTRUCTION PLANS REQUIRES APPROVAL BY BOTH THE ENGINEER OF RECORD AND THE CITY PRIOR TO PERFORMING THE WORK.
9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AN "AS-BUILT" SURVEY OF THE COMPLETED CONSTRUCTION. THE "AS-BUILT" SURVEY SHALL BE PREPARED IN ACCORDANCE WITH APPROPRIATE GOVERNMENTAL REGULATIONS AND ZCA REQUIREMENTS. THE "AS-BUILT" SURVEY SHALL BE PREPARED ON ZCA'S DESIGN/PRELIMINARY PLANS. ELECTRONIC AND/OR PAPER COPIES OF THE AS-BUILT SURVEY SHALL BE PROVIDED TO THE ENGINEER OF RECORD. THE "AS-BUILT" SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL LAND SURVEYOR.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING VEHICULAR AND PEDESTRIAN TRAFFIC SAFELY THROUGH THE WORK ZONE AT ALL TIMES, IF APPLICABLE. ANY SIDEWALK, LANE OR ROAD CLOSURE REQUIRES REVIEW AND APPROVAL IN ADVANCE AND A SEVEN (7) DAY MINIMUM NOTICE TO THE JURISDICTIONAL AGENCY/CITY OF FERNANDINA BEACH. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REQUIRED COORDINATION.
11. MAINTENANCE OF TRAFFIC WILL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS, LATEST EDITIONS.
12. CONTRACTOR TO NOTIFY THE REGULATORY AGENCIES FORTY EIGHT (48) HOURS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL SEND COPIES OF ALL TESTING REPORTS TO THE REGULATORY AGENCIES AND THE ENGINEER OF RECORD.
13. SURVEY INFORMATION PROVIDED BY MANZIE & DRAKE LAND SURVEYING DATED 10/01/19. ALL ELEVATIONS BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29) / NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND ARE SHOWN IN FEET. STATE PLANE COORDINATES ARE BASED UPON NAD 88.
14. ALL PUBLIC LAND CORNERS AND MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED. THE CONTRACTOR SHALL EMPLOY A SURVEYOR, REGISTERED IN THE STATE OF FLORIDA, TO REPLACE/RESTORE ANY PROPERTY OR LAND MARKERS DISTURBED BY CONSTRUCTION ACTIVITIES.
15. NO LAND SHALL BE CLEARED, EXCAVATED OR FILLED AND NO STRUCTURES SHALL BE ERECTED, REPAIRED OR DEMOLISHED WITHOUT PROPER PERMIT(S).
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS AS WELL AS THE REQUIREMENTS OF ST. JOHNS RIVER WATER MANAGEMENT DISTRICT AND E.P.A. (NPDES). CONTRACTOR SHALL ESTABLISH BEST MANAGEMENT PRACTICES AND EROSION CONTROL METHODS PRIOR TO COMMENCING ANY SITE CLEARING OR DEMOLITION AND SHALL MAINTAIN THOSE BARRIERS UNTIL FINAL ACCEPTANCE OF THE PROJECT.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROJECT'S NPDES PERMITTING, INSPECTION AND REPORTING, IF APPLICABLE.
18. THE EROSION, SEDIMENT AND TURBIDITY CONTROL MEASURES DELINEATED HEREON ARE THE MINIMUM REQUIRED. ADDITIONAL CONTROLS MAY BE NEEDED, DEPENDING UPON THE ACTUAL SITE CONDITIONS. JURISDICTIONAL AGENCY PERMIT REQUIREMENTS AND CONSTRUCTION OPERATIONS. STACKED SILT FENCE SHALL BE UTILIZED TO CONTROL EROSION AND RELEASE OF SUSPENDED SOLIDS. SEDIMENT TRAPPING CONTROL DEVICES SHALL BE USED TO PREVENT THE OFFSITE TRANSPORT OF SEDIMENT BY MOTORIZED VEHICLES. IF CONTROL MEASURES DO NOT PROVE SATISFACTORY, WORK SHALL CEASE UNTIL NEW MEASURES ARE ADOPTED WITH SATISFACTORY RESULTS.
19. ALL EROSION AND SEDIMENT TRAPPING CONTROL DEVICES SHALL BE INSPECTED DAILY AND IMMEDIATELY FOLLOWING A RAINFALL EVENT. REF. TO PROJECT'S STORMWATER POLLUTION PREVENT PLAN (SWPP). ANY DEFICIENCIES FOUND IN THE EROSION CONTROL MEASURES SHALL BE REPAIRED IMMEDIATELY. THE CONTRACTOR SHALL KEEP A LOG BOOK DOCUMENTING THESE DAILY INSPECTIONS, DEFICIENCIES AND REMEDIAL ACTIONS.
20. ALL UNSUITABLE SOILS AND UNSUITABLE MATERIALS (SUCH AS CLAY, ORGANICS, ROCK, CEMENTED COQUINA, DEBRIS, ETC) SHALL BE REMOVED, DISPOSED OF IN A LEGAL MANNER AND REPLACED WITH DRY COMPACTED GRANULAR MATERIAL SATISFACTORY TO THE CITY. THE COST OF ALL WORK AND MATERIALS IS TO BE INCLUDED IN THE UNIT PRICE OF THE ASSOCIATED CONSTRUCTION ITEMS UNLESS OTHERWISE SHOWN IN THE PLANS.
21. IN THE EVENT THAT WATER IS ENCOUNTERED DURING CONSTRUCTION, DOWATERING SHALL BE PERFORMED AS NEEDED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, PERMITTING, INSTALLATION, OPERATION AND SUBSEQUENT REMOVAL OF DOWATERING SYSTEMS AND THEIR SAFETY AND CONFORMITY WITH APPLICABLE CODES AND REGULATIONS.
22. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE ELECTRIC, TELEPHONE, GAS, CABLE, TELEVISION TO THE CITY. THE COST OF ALL WORK AND MATERIALS IS TO BE INCLUDED IN THE UNIT PRICE OF THE ASSOCIATED CONSTRUCTION ITEMS UNLESS OTHERWISE SHOWN IN THE PLANS.
23. ALL UNDERGROUND UTILITIES HAVE BEEN LOCATED HORIZONTALLY AND VERTICALLY BASED ON THE BEST INFORMATION AVAILABLE AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING ALL ELEVATIONS OF EXISTING UTILITIES (PUBLIC AND PRIVATE) SHOWN OR NOT SHOWN PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE VARIOUS UTILITY COMPANIES TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION, DISRUPTION OF SERVICE, OR CLARIFICATION OF ACTIVITY REGARDING SAID UTILITY. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR OR CROSSING A UTILITY, WHETHER SHOWN ON THESE PLANS OR FIELD LOCATED. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND NOTIFY THE UTILITY COMPANIES OF ANY SUCH NEEDS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO PAY FOR ANY REPAIR, RELOCATION OR TEMPORARY MEASURES NEEDED FOR EXISTING OR PROPOSED UTILITIES.
24. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND AVOID ALL UTILITIES, OTHER STRUCTURES AND OBSTRUCTIONS BOTH ABOVE AND BELOW GROUND. ALL DAMAGE RESULTING FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
25. THE CONTRACTOR SHALL NOTIFY ALL UTILITY PROVIDERS AT LEAST TWO (2) BUSINESS DAYS PRIOR TO ANY CONSTRUCTION.
26. THE CONTRACTOR SHALL MAINTAIN UNINTERRUPTED SERVICE AT ALL SERVICE CONNECTIONS. THE MANNER IN WHICH THIS IS ACCOMPLISHED SHALL BE LEFT TO THE DISCRETION OF THE CONTRACTOR, SUBJECT TO THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS.
27. ALL EXISTING DRAINAGE STRUCTURES AND UTILITIES WITHIN THE CONSTRUCTION LIMITS SHALL REMAIN, UNLESS OTHERWISE NOTED IN PLANS.
28. ALL STATIONS AND OFFSETS REFER TO CENTERLINE CONSTRUCTION UNLESS OTHERWISE NOTED IN PLANS.
29. THE LENGTH OF ALL DRAINAGE PIPES AND LOCATION OF ALL DRAINAGE STRUCTURES ARE APPROXIMATE. THE LOCATION OF THE DRAINAGE STRUCTURE SHALL DETERMINE THE LENGTH OF PIPE.
30. THE TOP OF CASTING ELEVATIONS (TO) OF ALL STRUCTURES ARE SHOWN. HOWEVER, THE CONTRACTOR SHALL INSTALL ALL FRAMES SO AS TO PROVIDE A SMOOTH SURFACE FOR VEHICULAR AND/OR PEDESTRIAN TRAFFIC.
31. CONTRACTOR SHALL CONFIRM PROPOSED TOP OF CASTING (TO) ELEVATIONS WILL ALLOW POSITIVE DRAINAGE TO PROPOSED INLETS. IF POSITIVE DRAINAGE DOES NOT EXIST, CONTRACTOR TO COORDINATE WITH ENGINEER OF RECORD FOR SOLUTION AND ADJUST PROPOSED INLETS AS NECESSARY.
32. CONTRACTOR SHALL CONFIRM ELEVATION OF EXISTING GRADE PRIOR TO PLACING DRAINAGE OUTFALL STRUCTURES. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD IF EXISTING GRADE DOES NOT MATCH PROPOSED OUTFALL INVERT. CONTRACTOR SHALL ADJUST OUTFALL STRUCTURE INVERT AND/OR STRUCTURE LOCATION AS DIRECTED BY ENGINEER OF RECORD.
33. ANY DRAINAGE PROBLEMS CREATED BY CONSTRUCTION, OR EXISTING BEFORE CONSTRUCTION AND NOT ALLEVIATED, SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD AT THE TIME OF DISCOVERY.
34. ALL STORMWATER PIPES AND INLETS SHALL BE CLEANED OF DEBRIS AND ERODED MATERIALS AT LAST STAGES OF AND PRIOR TO COMPLETION OF CONSTRUCTION.
35. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES MAY EXTEND INTO THE STABILIZED PORTION OF THE ROADBED. EXTREME CAUTION WILL BE NECESSARY DURING COMPACTION AND STABILIZATION OPERATIONS AT THESE LOCATIONS TO AVOID DAMAGE AND ACHIEVE THE REQUIRED COMPACTION.
36. DURING CONSTRUCTION, AN ALL-WEATHER ACCESSIBLE ROADWAY SHALL BE MAINTAINED AT ALL TIMES FOR FIRE ACCESS.

GENERAL NOTES

38. NONE OF THE EXISTING LIMBEROCK BASE THAT IS REMOVED IS TO BE USED IN THE CONSTRUCTION OF THE NEW LIMBEROCK BASE UNLESS OTHERWISE NOTED ON PLANS.
39. EXISTING DRIVEWAYS WITHIN THE LIMITS OF THIS PROJECT ARE TO BE REPLACED AT THE SAME LOCATION AND WIDTH WITH THE SAME TYPE OF MATERIAL, UNLESS OTHERWISE SHOWN IN THE PLANS.
40. ALL RAMPS, SIDEWALKS AND ACCESSIBLE ROUTES ARE TO BE IN COMPLIANCE WITH CURRENT A.D.A. REQUIREMENTS.
41. SIGNS THAT ARE REMOVED AND ARE TO BE RELOCATED SHALL BE STOCK PILED BY THE CONTRACTOR. ALL EXISTING SIGNS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT HIS COST.
42. ROADWAY AND PARKING SIGNAGE AND MARKINGS SHALL BE IN CONFORMANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
43. GRADES SHOWN ARE FINISHED GRADES.
44. OPERATION AND MAINTENANCE OF THE STORMWATER SYSTEM WILL BE PROVIDED BY THE OWNER OF PROPERTY. MAINTENANCE IS TO INCLUDE BI-WEEKLY MOWING OF SIDE SLOPES FOR VEGETATION CONTROL AND MONTHLY INSPECTION/CLEANING OF CULVERTS & STORM SYSTEMS.
45. ALL DISTURBED AREAS SHALL BE SODDED, UNLESS OTHERWISE SHOWN, AND SHALL HAVE SOD/VEGETATED COVER ESTABLISHED PRIOR TO THE INSPECTION FOR THE CERTIFICATE OF OCCUPANCY.
46. INSTALLATION OF THE REQUIRED STREET SIGNS, TRAFFIC SIGNS, PAVEMENT STRIPING, STREET LIGHTS AND SIDEWALKS ALONG WITH THE PAINTING OF THE FIRE HYDRANTS MUST BE COMPLETED PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF COMPLETION.
47. CONTRACTOR IS RESPONSIBLE FOR INSPECTING AND PRE-TESTING PRIOR TO SCHEDULING A TEST OR WALK-THROUGH WITH THE UTILITY REPRESENTATIVES, MUNICIPAL REPRESENTATIVES AND ENGINEER OF RECORD. ANY COST ASSOCIATED WITH RETESTING SHALL BE PAID FOR BY THE CONTRACTOR.
48. THE ENGINEER OF RECORD AND LOCAL UTILITY SHALL BE GIVEN SEVENTY-TWO (72) HOURS NOTICE OF ALL REQUESTED MEETINGS AND/OR TESTING MEASURES.
49. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE REGULATORY REPRESENTATIVES TO DETERMINE THE INSPECTIONS NEEDED FOR THE PROJECT. CONTRACTOR SHALL PROVIDE PROPER NOTIFICATION TO INSPECTING AUTHORITIES BEFORE AND DURING CONSTRUCTION.

EROSION & SEDIMENT CONTROL NOTES

1. ALL CONSTRUCTION ACTIVITIES SHALL INCORPORATE BEST MANAGEMENT PRACTICES (BMP'S) TO CONTROL EROSION, SEDIMENTATION, AND THE POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
2. CONTRACTOR SHALL MAINTAIN RECORDS OF EXISTING VEGETATION, (PARTICULARLY AROUND THE PROJECT PERIMETER) AND ADJACENT EXISTING DRAINAGE PATTERNS TO THE MAXIMUM EXTENT PRACTICAL DURING THE CONSTRUCTION PROCESS.
3. SILT FENCES AND TURBIDITY BARRIERS SHALL BE INSTALLED ON SITE AND APPROVED BY THE CITY PRIOR TO CONSTRUCTION, AND SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR AND CORRECTIVE ACTION TAKEN AS NECESSARY.
4. STORMWATER RETENTION, DETENTION, STORAGE AND CONVEYANCE SYSTEMS MUST BE EXCAVATED TO ROUGH GRADE PRIOR TO CONSTRUCTION. DISTURBED AREAS SHALL BE PROTECTED BY THE AREA SERVED BY THOSE SYSTEMS. ADEQUATE MEASURES MUST BE TAKEN TO PREVENT SILTATION OF THESE TREATMENT SYSTEMS AND CONTROL STRUCTURES DURING CONSTRUCTION. SILTATION MUST BE REMOVED FROM THE STORMWATER SYSTEM WHEN HALF FULL AND IMMEDIATELY PRIOR TO FINAL GRADING AND GRASSING OF THE PROJECT.
6. DURING ALL CONSTRUCTION OF THE PERMITTED SYSTEM INCLUDING STABILIZATION AND REVEGETATION OF DISTURBED SURFACES, CONTRACTOR IS RESPONSIBLE FOR THE SELECTION, IMPLEMENTATION, AND OPERATION OF ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED TO RETAIN ALL SEDIMENT ONSITE AND PREVENT VIOLATIONS OF THE WATER QUALITY STANDARDS IN ACCORDANCE WITH THE FLORIDA ADMINISTRATIVE CODE AND PROJECT PERMIT REQUIREMENTS.
7. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN A PROTECTIVE COVER (VEGETATIVE OR SUITABLE ALTERNATIVE) FOR EROSION AND SEDIMENT CONTROL ON ALL LAND SURFACES EXPOSED OR DISTURBED BY CONSTRUCTION OF THE PERMITTED PROJECT, UNLESS MODIFIED BY ANOTHER CONDITION OF THE PERMIT OR OTHERWISE SPECIFIED ON A DISTRICT APPROVED EROSION AND SEDIMENT CONTROL PLAN. THE PROTECTIVE COVER MUST BE INSTALLED WITHIN FOURTEEN (14) DAYS AFTER FINAL GRADING OF THE AFFECTED LAND SURFACE. A PERMANENT VEGETATIVE COVER MUST BE ESTABLISHED WITHIN 60 DAYS OF ITS INSTALLATION. THE PERMITTEE'S REQUIREMENT TO MAINTAIN COVER ON OFFSITE AND ONSITE SURFACES SHALL NOT BE COMPLETE UNTIL AFTER THE WATER MANAGEMENT DISTRICT RECEIVES THE PERMITTEE'S STATEMENT OF COMPLIANCE.
8. AT A MINIMUM, SILT FENCES AND TURBIDITY BARRIERS SHALL BE INSTALLED PER PLAN. ADDITIONAL BMP MEASURES MUST BE TAKEN TO MINIMIZE IMPACTS OF RECEIVING WATERS SUCH AS THE USE OF APPROVED BARRIERS AT INLETS, ADDITIONAL SILT FENCING, SILT ANTI-TRACKING DEVICES AND SODDING.
9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE PROJECT LIMITS IN COMPLIANCE WITH ALL JURISDICTIONAL PERMIT AND CITY REQUIREMENTS.
10. ANY TIME THE CONTRACTOR NEEDS TO SUBMIT A NOTICE OF INTENT TO USE A GENERAL PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES, A COPY OF THE PERMIT SHALL ALSO BE SUBMITTED TO THE CITY ENGINEER OF RECORD.
11. THE CONTRACTOR SHALL AS A MINIMUM PREPARE AND IMPLEMENT AN EROSION AND SEDIMENT CONTROL PLAN IN ACCORDANCE WITH FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) GUIDELINES.
12. DOWATERING ACTIVITIES SHALL BE APPROVED BY THE CITY BEFORE DISCHARGING INTO THE CITY'S M&S SYSTEM.

TRAFFIC CONTROL NOTES

1. CONTRACTOR SHALL PERFORM ALL PROJECT WORK IN ACCORDANCE WITH FDOT DESIGN STANDARDS, LATEST EDITION. NIGHT WORK MAY BE SCHEDULED TO LESSEN TRAFFIC IMPACT & INCONVENIENCE TO GENERAL PUBLIC AND MUST BE APPROVED BY CITY ENGINEER PRIOR TO COMMENCEMENT OF WORK.
2. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL OF MAINTENANCE OF TRAFFIC (MOT) PLANS FOR ANY LANE CLOSURES FROM THE CITY TRAFFIC ENGINEERING DIVISION AT LEAST TWO (2) WEEKS IN ADVANCE OF ANY LANE CLOSURE.
3. EXISTING SIGNING AND PAVEMENT MARKINGS TO BE MAINTAINED UNLESS SHOWN OTHERWISE IN THESE PLANS.
4. TWO (2) WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT ENTIRE LENGTH OF PROJECT.
5. TWO (2) WAY ACCESS TO PRIVATE DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES. TEMPORARY DRIVEWAY CLOSURES MAY BE ALLOWED IF SHARED ACCESS IS AVAILABLE OR IF WRITTEN AUTHORIZATION FROM THE PROPERTY OWNER IS PROVIDED TO CITY PRIOR TO COMMENCEMENT OF WORK ACTIVITIES.
6. VARIABLE MESSAGE BOARD (VMS) INFORMATION SHALL BE PROVIDED TO THE CITY. CONTRACTOR IS RESPONSIBLE FOR ADEQUATE NUMBER OF BOARDS AND LOCATIONS, TO BE VERIFIED PRIOR TO COMMENCEMENT OF WORK.
7. IF A CHANGE OF GRADE OCCURS AT THE DRIP LINE OF A SPECIMEN TREE, SILT FENCE WILL BE REQUIRED DURING CONSTRUCTION AND RETAINING WALLS MUST BE INSTALLED PRIOR TO FINAL ACCEPTANCE BY THE CITY.
8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL PROTECTIVE VEGETATION BARRICADES AND EROSION CONTROL STRUCTURES AND MEASURES IN PLACE PRIOR TO THE COMMENCEMENT OF ANY EARTHWORK, INCLUDING PRELIMINARY GRUBBING AND/OR CONSTRUCTION OF TEMPORARY CONSTRUCTION FENCES, SYNTHETIC JUTE BALES, SILT FENCES, AND FLOATING TURBIDITY BARRIERS. FURTHER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL EROSION CONTROL DEVICES THROUGHOUT THE DURATION OF THE ENTIRE PROJECT. MAINTENANCE SHALL INCLUDE PERIODIC INSPECTION AND REMOVAL OF DEBRIS ABUTTING EROSION CONTROL DEVICES IN ACCORDANCE WITH THE CITY'S UTILITY DEPARTMENT STANDARDS.
9. PRIOR TO THE INSTALLATION OF ANY FILL MATERIAL ON SUBJECT SITE, SILT FENCE SHALL BE INSTALLED: a. ALONG SUBJECT SITE BOUNDARY AND PROPERTY LINES. b. ALONG ANY EXISTING OR PROPOSED DRIVEWAYS. c. AROUND THE PERIMETER OF EXISTING STORM WATER TREATMENT FACILITIES. d. AT ANY ADDITIONAL AREAS THAT THE CITY DEEMS NECESSARY TO BE PROTECTED FROM POTENTIAL EROSION IMPACTS DURING CONSTRUCTION. THE CONDITIONS SHALL APPLY IN INSTANCES WHERE FILL MATERIAL IS BEING INSTALLED WITHIN 25 FEET OF ANY OF THE ABOVE-MENTIONED LOCATIONS, WHILE THESE ITEMS REPRESENT THE MINIMUM REQUIREMENTS, THE CITY RESERVES THE RIGHT TO IMPOSE ADDITIONAL PROTECTIVE MEASURES, AS DETERMINED DURING ACTUAL SITE VISITS CONDUCTED AS PART OF THE STANDARD REVIEW OF THE SITE-SPECIFIC CLEARING PERMIT AND THROUGHOUT PROJECT CONSTRUCTION.
6. WHERE FILL MATERIAL IS INTENDED TO BE INSTALLED ADJACENT TO EXISTING VEGETATION WHICH IS INTENDED TO REMAIN NATURAL, THE CONTRACTOR MAY INSTALL SILT FENCING AS A TREE PROTECTION MEASURE, IN LIEU OF INSTALLING EITHER WOOD BRACING OR ORANGE MESH FENCING. THIS PRACTICE IS ENCOURAGED BY THE CITY, IF THE SILT FENCE FAILS TO PROVIDE ADEQUATE PROTECTION FROM IMPACT DUE TO CONSTRUCTION, THEN ADDITIONAL CONSTRUCTION FENCING OR WOOD BRACING SHALL BE REQUIRED.
7. AT A MINIMUM, THE CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS. GRASS COVERAGE IS TO BE ESTABLISHED WITHIN THIRTY (30) DAYS.
8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THROUGH SCHEDULING, TO MINIMIZE THE DISTURBANCE OF SITE AREAS THAT HAVE BEEN BROUGHT TO THEIR PROPOSED FINAL GRADE, WITHIN TWENTY DAYS OF BRINGING A SUBJECT AREA TO ITS FINAL GRADE. THE CONTRACTOR SHALL INSTALL SEED AND MULCH OR SOD AND WATERING, AS REQUIRED.

SITE CLEARING AND GRADING NOTES

THE FOLLOWING REPRESENTS MINIMUM STANDARDS TO BE ADHERED TO BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION OF A PROJECT. THE CITY RESERVES THE RIGHT TO REQUIRE ADDITIONAL MEASURES TO BE EMPLOYED WHEN WARRANTED BY EXTREME CONDITIONS AND/OR THE FAILURE OF THE CONTRACTOR TO EMPLOY THE APPROPRIATE EROSION CONTROL BEST MANAGEMENT PRACTICES. FAILURE TO COMPLY WITH THESE PROVISIONS SHALL RESULT IN THE ISSUANCE OF A "STOP WORK ORDER".

1. NO DISTURBANCE OF EXISTING OR PROPOSED CONSERVATION EASEMENTS, NATURAL BUFFERS, OR WATER BODIES IS PERMITTED WITHOUT PRIOR APPROVAL FROM THE CITY ENGINEER OR DESIGNER. THE CONTRACTOR SHALL LOCATE THESE AREAS AND AVOID ANY UNLAWFUL CLEARING, BARRICADES AND OTHER OBSTRUCTIONS. PROTECTIVE FENCING ARE TO BE LOCATED AT THE DRIP LINE OF EXISTING NATIVE TREES OR AT THE EDGE OF THE NATIVE UNDER-STORY HABITAT, WHICHEVER IS NEAREST TO THE CONSTRUCTION ACTIVITY.
2. SPECIMEN AND HISTORIC TREES, CONSERVATION EASEMENTS, NATURAL VEGETATION BUFFERS, AND SIMILAR AREAS SHALL BE PROTECTED BY CLEARING BARRICADES AND TO BE SET AT THE DRIP LINE OF THE TREES AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. BARBED WIRE IS NOT PERMITTED AS A PROTECTIVE BARRIER.
3. WHERE A CHANGE OF GRADE OCCURS AT THE DRIP LINE OF A SPECIMEN TREE, SILT FENCE WILL BE REQUIRED DURING CONSTRUCTION AND RETAINING WALLS MUST BE INSTALLED PRIOR TO FINAL ACCEPTANCE BY THE CITY.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL PROTECTIVE VEGETATION BARRICADES AND EROSION CONTROL STRUCTURES AND MEASURES IN PLACE PRIOR TO THE COMMENCEMENT OF ANY EARTHWORK, INCLUDING PRELIMINARY GRUBBING AND/OR CONSTRUCTION OF TEMPORARY CONSTRUCTION FENCES, SYNTHETIC JUTE BALES, SILT FENCES, AND FLOATING TURBIDITY BARRIERS. FURTHER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL EROSION CONTROL DEVICES THROUGHOUT THE DURATION OF THE ENTIRE PROJECT. MAINTENANCE SHALL INCLUDE PERIODIC INSPECTION AND REMOVAL OF DEBRIS ABUTTING EROSION CONTROL DEVICES IN ACCORDANCE WITH THE CITY'S UTILITY DEPARTMENT STANDARDS.
5. PRIOR TO THE INSTALLATION OF ANY FILL MATERIAL ON SUBJECT SITE, SILT FENCE SHALL BE INSTALLED: a. ALONG SUBJECT SITE BOUNDARY AND PROPERTY LINES. b. ALONG ANY EXISTING OR PROPOSED DRIVEWAYS. c. AROUND THE PERIMETER OF EXISTING STORM WATER TREATMENT FACILITIES. d. AT ANY ADDITIONAL AREAS THAT THE CITY DEEMS NECESSARY TO BE PROTECTED FROM POTENTIAL EROSION IMPACTS DURING CONSTRUCTION. THE CONDITIONS SHALL APPLY IN INSTANCES WHERE FILL MATERIAL IS BEING INSTALLED WITHIN 25 FEET OF ANY OF THE ABOVE-MENTIONED LOCATIONS, WHILE THESE ITEMS REPRESENT THE MINIMUM REQUIREMENTS, THE CITY RESERVES THE RIGHT TO IMPOSE ADDITIONAL PROTECTIVE MEASURES, AS DETERMINED DURING ACTUAL SITE VISITS CONDUCTED AS PART OF THE STANDARD REVIEW OF THE SITE-SPECIFIC CLEARING PERMIT AND THROUGHOUT PROJECT CONSTRUCTION.
6. WHERE FILL MATERIAL IS INTENDED TO BE INSTALLED ADJACENT TO EXISTING VEGETATION WHICH IS INTENDED TO REMAIN NATURAL, THE CONTRACTOR MAY INSTALL SILT FENCING AS A TREE PROTECTION MEASURE, IN LIEU OF INSTALLING EITHER WOOD BRACING OR ORANGE MESH FENCING. THIS PRACTICE IS ENCOURAGED BY THE CITY, IF THE SILT FENCE FAILS TO PROVIDE ADEQUATE PROTECTION FROM IMPACT DUE TO CONSTRUCTION, THEN ADDITIONAL CONSTRUCTION FENCING OR WOOD BRACING SHALL BE REQUIRED.
7. AT A MINIMUM, THE CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS. GRASS COVERAGE IS TO BE ESTABLISHED WITHIN THIRTY (30) DAYS.
8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THROUGH SCHEDULING, TO MINIMIZE THE DISTURBANCE OF SITE AREAS THAT HAVE BEEN BROUGHT TO THEIR PROPOSED FINAL GRADE, WITHIN TWENTY DAYS OF BRINGING A SUBJECT AREA TO ITS FINAL GRADE. THE CONTRACTOR SHALL INSTALL SEED AND MULCH OR SOD AND WATERING, AS REQUIRED.

SITE CLEARING AND GRADING NOTES (CONT)

9. FOR INDIVIDUAL CONSTRUCTION PROJECTS INVOLVING MULTIPLE PHASES, UPON COMPLETION OF EACH PHASE OF THE PROJECT, SEEDING AND MULCHING AND OR/ SODDING IS TO BE PERFORMED PRIOR TO COMMENCING THE NEXT PHASE OF CONSTRUCTION.
10. ONCE AN AREA IS SEEDDED OR SODDED, IT MUST BE MAINTAINED, INCLUDING WATERING AND TRIMMING BY THE CONTRACTOR TO ALLOW THE GRASS TO BECOME ESTABLISHED.
11. ANY BURNING OF CLEARED MATERIALS MUST BE INSPECTED AND PERMITTED ON A DAILY BASIS THROUGH THE FL FOREST SERVICE.
12. ABSOLUTELY NO BURYING OF CLEARED & GRUBBED MATERIALS IS PERMITTED.
13. THE REMOVAL OF ALL VEGETATION AND TOPSOIL ON THE FUTURE ROADWAY, PARKING AND BUILDING LOT AREAS IS REQUIRED PRIOR TO THE PLACEMENT OF FILL ON THESE AREAS. THE TOPSOIL MAY BE TEMPORARILY STOCKPILED AND USED AS TOPSOIL OVER PROPOSED GREEN AREAS SUCH AS PLANT BEDS, SODDED AREAS, AND WHERE TREES ARE TO BE INSTALLED OR RELOCATED. TEMPORARY STOCKPILE SLOPES SHALL NOT EXCEED 4:1 (H:V).
14. A SIGNED, DATED, AND SEALED LETTER FROM A SOILS ENGINEER OR THE ENGINEER OF RECORD CERTIFYING THAT THE AREAS TO BE FILLED HAVE BEEN STRIPPED OF ORGANIC MATERIALS, MUST BE SUBMITTED TO THE CITY PRIOR TO FILLING.
15. FILL MATERIAL IS TO BE PLACED IN ONE FOOT LIFTS AND COMPACTED TO THE APPROPRIATE DENSITY (98% FOR PAVED AREAS AND 95% FOR BUILDING PADS AND ALL OTHER AREAS AS PER MODIFIED AASHTO T-180).
16. DURING SUBDIVISION DEVELOPMENT WHEN FUTURE BUILDING LOTS ARE FILLED AS PART OF THE OVERALL SUBDIVISION IMPROVEMENTS, COMPACTION TEST REPORTS MUST BE PERFORMED ON THESE LOTS AT 300' INTERVALS. THESE TESTS ARE TO BE PERFORMED IN 1' VERTICAL INCREMENTS. THE RESULTS OF THESE TESTS ARE TO BE SUBMITTED TO THE CITY UPON COMPLETION OF THE TESTS.
17. IF ANY MUCK OR ANY UNSUITABLE MATERIAL IS DISCOVERED, IT SHALL BE REMOVED AND REPLACED WITH A SUITABLE MATERIAL THAT IS PROPERLY BACKFILLED, COMPACTED AND TESTED USING AASHTO T-180 MODIFIED PROCTOR METHOD.
18. STOCKPILING IS NOT GENERALLY PERMITTED BY THE CITY. WHEN ALLOWED, STOCKPILES SHALL NOT EXCEED SIX FEET IN HEIGHT MEASURED FROM THE ORIGINAL GRADE. AT A MINIMUM, STOCK PILES THAT WILL REMAIN IN PLACE IN EXCESS OF FIVE DAYS SHALL BE COVERED OR WATERED TO MINIMIZE THE ADVERSE IMPACT ON ADJACENT PROPERTY OWNERS AT NO ADDITIONAL COST TO THE CITY OR OWNER. SEED AND MULCH IMMEDIATELY UPON PLACEMENT OF THE FINAL LIFT.
19. SOILS ARE TO BE STABILIZED BY WATER OR OTHER MEANS DURING CONSTRUCTION. THIS IS INTENDED TO REDUCE SOIL EROSION AND THE IMPACT TO NEIGHBORING COMMUNITIES. ADEQUATE WATERING METHODS SHOULD BE EMPLOYED TO ALLOW DAILY COVERAGE OF THE ENTIRE LIMITS OF ALL AREAS THAT DO NOT HAVE AN ESTABLISHED VEGETATIVE COVER. METHODS TO BE EMPLOYED INCLUDE, BUT ARE NOT LIMITED TO, WATER TRUCKS, PERMANENT IRRIGATION SYSTEMS, TEMPORARY SPRINKLER SYSTEMS OPERATED BY PUMPING UNITS CONNECTED TO WET RETENTION PONDS, WATER CANNONS, TREATMENT IRRIGATION SYSTEMS MOUNTED AUTO STOCKPILE AREAS, AND OTHER METHODS AS DEEMED NECESSARY BY THE CITY.
20. ALL FILL MATERIALS LOCATED BENEATH STRUCTURES AND PAVEMENT SHALL CONSIST OF CLEAN GRANULAR SAND FREE FROM ORGANICS AND OTHER MATERIALS THAT COULD CAUSE SOILS TO BECOME UNSTABLE.
21. ALL FILL TO BE PLACED IN LANDSCAPED AREAS SHALL HAVE A PH RANGE BETWEEN 5.5 AND 7.5, BE ORGANIC IN NATURE, FREE OF ROCKS AND DEBRIS, OR MATCH NATIVE EXISTING SOILS.

STORMWATER CONSTRUCTION NOTES

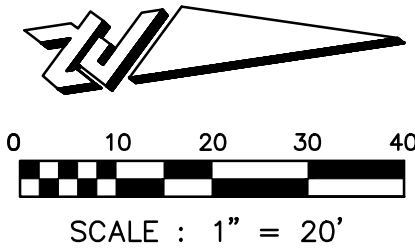
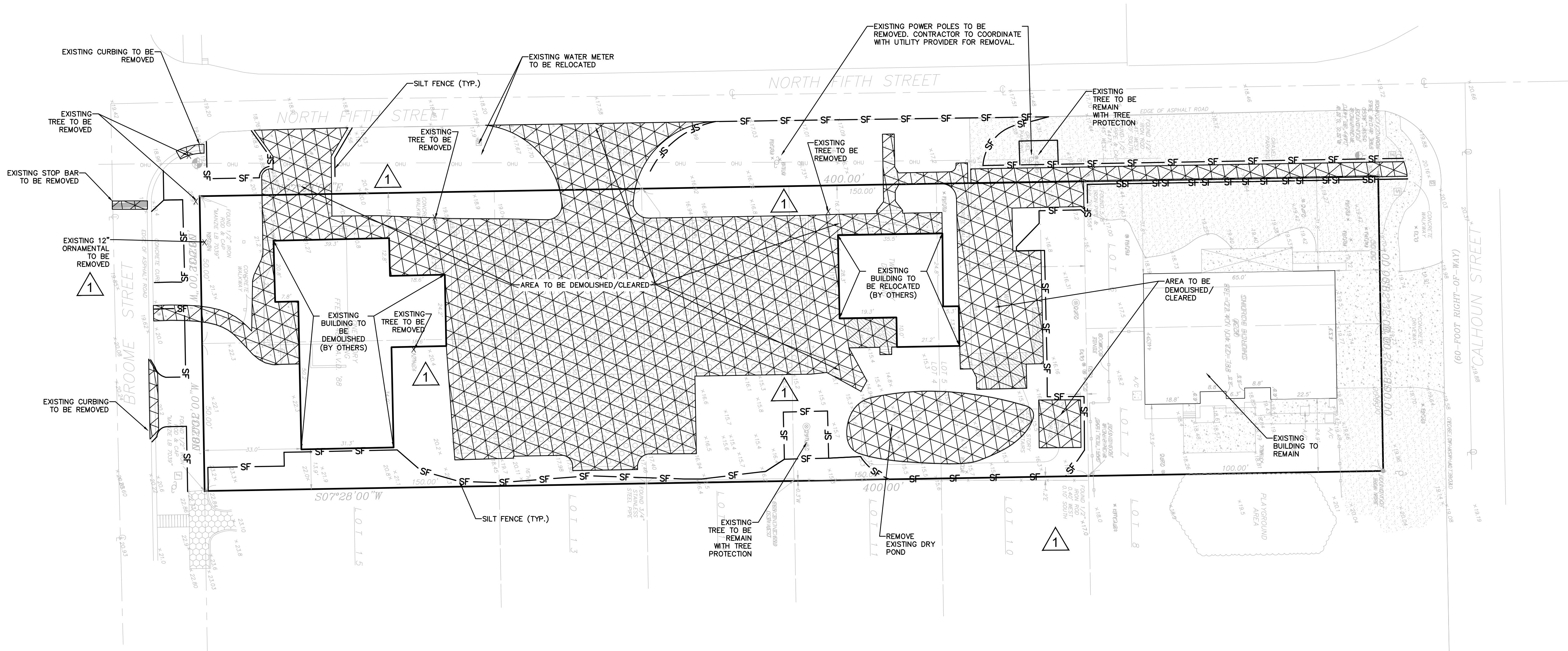
1. ALL MATERIALS AND INSTALLATION AND SEDIMENT AND EROSION CONTROL METHODS USED FOR LAND DEVELOPMENT CODE REQUIRED IMPROVEMENTS FOR SUBDIVISIONS AND SITE PLANS SHALL BE IN CONFORMANCE WITH THE CITY, FDEP, FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), AND THE FDOT DESIGN STANDARDS (LATEST EDITION). THE USE OF BEST MANAGEMENT PRACTICES (BMP'S) IS REQUIRED.
2. BEST MANAGEMENT PRACTICES (BMP'S) FOR EROSION AND SEDIMENT CONTROL SHALL BE PLANNED, DESIGNED AND IMPLEMENTED THROUGHOUT THE SITE DEVELOPMENT ENGINEERING AND CONSTRUCTION PHASES.
3. ALL DOWATERING ACTIVITIES EITHER DIRECTLY DISCHARGED OR THAT SUBSEQUENTLY USE THE CITY'S STORMWATER SYSTEM TO CONVEY GROUND OR SURFACE WATER FROM A SITE SHALL REQUIRE A USE PERMIT. A PERMIT SHALL BE REQUIRED PRIOR TO ENGAGING IN ANY DOWATERING ACTIVITIES, OR IN ANY CONSTRUCTION ACTIVITIES. DOWATERING ACTIVITIES INCLUDE THE REMOVAL OF GROUND WATER FROM A CONSTRUCTION SITE, ENCLOSED VAULT, CONCRETE OR TRENCH ALLOWING FOR EROSION OR MAINTENANCE TO BE DONE IN THE DRY, OR ANY ACTIVITY WHICH CHANGES THE IMPERVIOUS AREA OF LAND.
4. CONTRACTOR SHALL FOLLOW REQUIRED EROSION AND SEDIMENT CONTROL PRACTICES AND INCLUDE AN EROSION CONTROL PLAN FOR REVIEW AND CITY PRIOR TO COMMENCEMENT OF CONSTRUCTION.
5. CONSTRUCTION ACTIVITIES SHALL CONFORM TO THE CITY'S EROSION AND SEDIMENT CONTROL STANDARD DETAILS.
6. CONTRACTOR WILL FOLLOW ALL OF THE CITY'S REQUIRED WASTE MANAGEMENT PRACTICES. ALL CONSTRUCTION, RENOVATION, AND DEMOLITION SITES ARE TO BE KEPT CLEAN AND FREE OF REFUSE, DEBRIS, AND LITTER DURING THE CONSTRUCTION OR RENOVATION. LITTER SHALL BE REMOVED IMMEDIATELY. LITTER SHALL NOT BE CONSTRUCTED OR RENOVATED BUILDING SHALL NOT BE ISSUED UNTIL ALL REFUSE AND LITTER CAUSED BY THE CONSTRUCTION OR REMODELING IS REMOVED FROM THE SITE AS PER THE DAYTONA BEACH CODE OF ORDINANCES CHAPTER 28 SECTION 78-5 AND 78-8.
7. ALL DEVELOPMENT PLANS SHALL BE CONSISTENT WITH THE CITY OF JACKSONVILLE LAND DEVELOPMENT CODE.
8. PIPED STORMWATER SYSTEMS SHALL HAVE A MINIMUM DRAINAGE MAINTENANCE EASEMENT AND ACCESS WIDTH OF 20 FEET, AND MAY BE INCREASED DEPENDING UPON THE SIZE AND DEPTH OF PIPE.
9. CONCRETE EROSION CONTROL BMP'S MUST BE PROVIDED WHERE SWALES OR CULVERTS INTERCEPT DRAINAGE DITCHES.
10. SOIL EROSION AND SEDIMENT CONTROL BMP MEASURES, SATISFACTORY TO THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT, FDEP AND THE CITY, SHALL BE EMPLOYED DURING CONSTRUCTION.
11. IN GENERAL, ALL RETENTION/DETENTION SITES MUST BE CONSTRUCTED AND VEGETATED AS NECESSARY ON ALL PROJECTS PRIOR TO ANY ROAD, PARKING LOT, OR BUILDING CONSTRUCTION COMMENCING OR AS CURRENT PERMIT CONDITIONS DICTATE. SEWER AND WATER MAINS MAY BE INSTALLED PRIOR TO RETENTION/DETENTION SITE CONSTRUCTION IF DOWATERING IS NOT REQUIRED. HOWEVER BMP'S FOR EROSION AND SEDIMENT CONTROL WILL BE IMPLEMENTED AS NECESSARY TO PREVENT EROSION AND SEDIMENT CONTROL THAT MAY BE REQUIRED.
12. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ANY AND ALL DOWATERING PERMITS THAT MAY BE REQUIRED.
13. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW AND MAINTAIN A COPY OF THE SWRMD, NPDES, AND ALL OTHER JURISDICTIONAL PERMITS AT THE CONSTRUCTION SITE, AND ABIDE BY ALL CONDITIONS OF THOSE PERMITS.
14. LANDSCAPE PLANS SHALL CLEARLY DEPICT THE DESIGN LOCATION OF TEMPORARY AND PERMANENT PLANTINGS RELATIVE TO THE LOCATION OF PUBLIC UTILITIES AND STORMWATER INFRASTRUCTURE IN ORDER TO EVALUATE POTENTIAL CONFLICTS.
15. THE MAXIMUM PERMISSIBLE SLOPE OF ANY NEW SITE GRADING IS 1:3 (VERTICAL:HORIZONTAL). THIS LIMIT SHALL BE APPLIED TO ALL AREAS EXCEPT STORMWATER CONVEYANCE AND TREATMENT SYSTEMS WHICH HAVE A MAXIMUM SIDE SLOPE OF 1:4 (EXCEPT BELOW THE WATER TABLE WHERE STEEPER SLOPES ARE PERMISSIBLE).
16. ALL SWALES AND DITCHES SHALL HAVE A MAXIMUM PERMITTED FRONT (SIDE) SLOPE NOT STEEPER THAN 1 TO 4. THE MAXIMUM PERMITTED BACK (SIDE) SLOPE, SHALL BE 1:3. PROVIDED THAT A 2' WIDE BERM IS INSTALLED. DESIGN CENTERLINE AND TOP-OF-BANK ELEVATIONS SHALL BE NOTED AT INTERVALS OF 100' AND AT SIGNIFICANT GRADE CHANGES.
17. THE CITY MAY REQUEST THAT THE DEVELOPER SUBMIT A REPORT BY A QUALIFIED HYDROLOGIST OR HYDROGEOLOGIST ON THE IMPACT THE WET POND WILL HAVE ON NEIGHBORING WATER TABLE ELEVATIONS BOTH DURING CONSTRUCTION AND AFTER LAKE COMPLETION. THE CITY MAY REQUIRE GROUNDWATER MONITORING DURING CONSTRUCTION.
18. DEVELOPMENT PLANS FOR ALL STORMWATER MANAGEMENT SYSTEMS SHALL CONTAIN POP- OFF DATA (OVERFLOW), BOTTOM ELEVATION, NORMAL WATER LEVELS, MEAN ANNUAL SEASONAL HIGH WATER TABLE ELEVATION, TREATMENT VOLUME AND CORRESPONDING ELEVATION, 100 YEAR HIGH WATER LEVELS, AND THE DESIGN TAILWATER ELEVATION (IF APPLICABLE).
19. THE DEPTH OF COVER MEASURED TO THE TOP OF PIPE (INCLUDING THE BELL JOINT) SHALL BE A MINIMUM OF 3 FEET OVER RCP. DEVIATION FROM THIS REQUIREMENT MAY BE ALLOWED BY STRENGTH. IF AN ALTERNATE MATERIAL IS APPROVED, DEPTH RECOMMENDATION.
20. ALL STORM DRAINAGE PIPES LOCATED IN ROADWAY RIGHT-OF-WAYS AND ROADWAY EASEMENTS MINIMUM OF FIFTEEN INCH (15") INSIDE DIAMETER OR EQUIVALENT. STORM DRAINAGE PIPES SMALLER THAN 15" ARE PERMITTED ON PRIVATE SITE PLANS PROVIDED THAT MAINTENANCE STORM INLETS, MANHOLES, AND CATCH BASINS SHALL BE FDOT COMPLIANT. EITHER POURED IN PLACE OR PRECAST REINFORCED CONCRETE STRUCTURES SHALL BE REQUIRED AT EACH CHANGE OF PIPE SIZE OR CHANGE IN PIPE DIRECTION. ALL STRUCTURES SHALL BE IN COMPLIANCE WITH ASTM C-478 AND SHALL HAVE 6" THICK WALLS. THINNER WALLS MAY BE PERMITTED PROVIDING THAT THE DESIGN IS IN ACCORDANCE WITH FDOT STANDARD INDEX NO. 201 AND NO. 201I. IN ADDITION, THIS REQUIREMENT MUST BE REFLECTED ON BOTH THE SHOP DRAWING AND AS-BUILT.
21. CONSTRUCTION IN ACCORDANCE WITH FDOT STANDARDS.
22. STORM INLETS SHALL BE SPACED IN SUCH A MANNER AS TO ACCEPT ONE HUNDRED (100) PERCENT OF THE DESIGN STORM RUNOFF WITHOUT IMPEDING THE FLOW OF TRAFFIC. FOR ROADWAY SECTIONS WITH DESIGN SPEEDS OF 45 MPH AND LESS AND WITHOUT FULL WIDTH SHOULDERS, SPREAD RESULTING FROM A RAINFALL INTENSITY OF FOUR INCHES (4") PER HOUR INLET SPACING SHALL BE DESIGNED TO ACCEPT ONE HUNDRED (100) PERCENT OF THE RUNOFF FROM A RAINFALL INTENSITY OF FOUR INCHES (4") PER HOUR WITHOUT RESULTING IN PONDING OF WATER AROUND THE INLET.
23. FOR CONNECTIONS BETWEEN INLETS WITH PIPING 15" IN DIAMETER AND LARGER, THE MAXIMUM DISTANCES BETWEEN INLETS AND / OR CLEAN-OUT JUNCTION BOXES SHALL BE 300 FEET. CULVERTS SHALL BE SLOPED TO MAINTAIN A MINIMUM SELF-CLEANING VELOCITY OF 2.5 FEET PER SECOND USING A MANNING'S 'N' OF 0.012.
24. ALL CLEAN-OUTS AND INLETS FOR SMALLER PIPING SHALL BE REDUCED AND EVALUATED ON A CASE BY CASE BASIS.
25. STORMWATER INLETS SHALL MEET FDOT CRITERIA IN THE FDOT DESIGN STANDARD LATEST EDITION.
26. WHERE A CLEAN-OUT SHALL BE TESTED FOR CONTINUITY UNDER SUPERVISION BY CITY REPRESENTATIVE AFTER INSTALLATION.
27. ALL GASKETS SHALL BE LUBRICATED BEFORE BEING INSTALLED.
28. ALL FITTINGS SHALL MEET THE MINIMUM RESTRAINED REQUIREMENTS PER ANSI/AWWA/DIPRA, AND ALL PRESSURE PIPES UNDER THE ROADWAY SHALL BE RESTRAINED.

ROADWAY CONSTRUCTION NOTES

ALL MATERIALS AND INSTALLATION METHODS USED FOR LAND DEVELOPMENT CODE REQUIRED IMPROVEMENTS FOR SUBDIVISIONS AND SITE PLANS SHALL BE IN CONFORMANCE WITH THE CITY'S DESIGN STANDARDS, FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), AND THE FDOT DESIGN STANDARDS (LATEST EDITION).

1. ALL RIGHT-OF-WAY OTHER THAN ROADWAY AREAS SHALL BE GRASSSED AND MULCHED OR SODDED. ALL SLOPES STEEPER THAN 6:1 SHALL REQUIRE SODDING. THE CITY RESERVES THE RIGHT TO REQUIRE SODDING IN SPECIAL AREAS WHERE EROSION IS A CONCERN.
2. THE FOLLOWING WILL BE THE STANDARD PROTECTION FOR DITCHES UNLESS DRAINAGE CALCULATIONS INDICATE OTHERWISE:
- SWALE PROFILE GRADES
0.2% - 1.0%
1.0% - 4.0%
4.0% AND GREATER
- PROTECTION REQUIRED
GRASSING AND MULCHING
SODDING
DITCH PAVING
3. THE PAVEMENT, BASE, AND SUBBASE THICKNESS PRESENTED ON DETAILS REPRESENTS THE MINIMUM REQUIREMENTS FOR LOCAL PUBLIC STREETS AND PRIVATE PARKING LOTS. THE CITY RESERVES THE RIGHT AT ITS DISCRETION TO INCREASE THESE REQUIREMENTS FOR COLLECTOR AND ARTERIAL ROADWAYS AND PRIVATE PARKING LOTS SUBJECT TO THE CITY'S MINIMUM STANDARDS. IT IS THE RESPONSIBILITY OF THE DEVELOPER TO ENSURE THAT COPIES OF ALL TEST REPORTS ARE PROVIDED TO THE CITY'S DESIGNATED SITE INSPECTOR PRIOR TO THE PROJECT FINAL INSPECTION IN ORDER TO ALLOW PROJECT ACCEPTANCE BY THE CITY.
4. THE LIMITS OF STABILIZED SUBBASE SHALL EXTEND TO A DEPTH OF TWELVE INCHES (12") BELOW THE BOTTOM OF THE BASE AND OUTWARD TO TWO INCHES (2") BEYOND THE CURB.
5. THE STABILIZING MATERIAL SHALL BE A HIGH BEARING VALUE SOIL, SAND-CLAY, LIMESTONE, LIME-CLAY, RECYCLED CONCRETE, SHELL, OR OTHER MATERIAL AS APPROVED BY THE CITY'S ENGINEER OR DESIGNER AND A LICENSED SOILS ENGINEER.
6. COMPACTION, STABILITY AND DENSITY TESTING FOR PAVEMENT, BASE AND SUB-BASE ARE TO BE DONE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROADWAY & BRIDGE CONSTRUCTION, LATEST EDITION.
7. FOR ROADWAYS, TESTS FOR SUBBASE BEARING CAPACITY AND COMPACTION SHALL BE DONE AT A MINIMUM OF EVERY 300 FEET AND SHALL BE STAGGERED TO THE LEFT, RIGHT, AND AT CENTER LINE OF THE ROADWAY. FOR SITE PLANS, TEST SHALL BE PERFORMED FOR EVERY 600 SQUARE YARDS OF STABILIZED AREA, OR PORTIONS THEREOF.
8. CEMENT DELIVERY TICKETS SHALL BE PROVIDED TO THE CITY'S DESIGNATED SITE INSPECTOR AT THE TIME OF PLACEMENT. IF THE INSPECTOR IS NOT ON SITE THROUGHOUT THE ENTIRE INSTALLATION, ACCUMULATED DELIVERY TICKETS CAN BE PROVIDED TO THE INSPECTOR BY THE CONTRACTOR ON THE FOLLOWING DAY.
9. TESTING OF THE IN-PLACE BASE SHALL BE DONE AT INTERVALS EQUIVALENT TO SUBGRADE TESTING AND SHALL CONSIST OF: AS A MINIMUM, A MOISTURE CONTENT AND COMPACTION TEST.
10. PORTLAND CEMENT CONCRETE, LIMBEROCK, RECYCLED CONCRETE, OR FULL DEPTH ASPHALT PAVEMENT MAY BE USED IN PLACE OF SOIL CEMENT BASE. ALL BASE AND ROADWAY DESIGNS SHALL BE SUBJECT TO THE APPROVAL OF THE CITY.
11. RECYCLED CONCRETE CAN BE USED AS A BASE MATERIAL PROVIDED THE MATERIAL IS A MINIMUM OF 60% CARBONATE OF CALCIUM AND MAGNESIUM. THE MATERIAL SHALL BE LIMITED TO MAXIMUM OF 3% OF WATER SENSITIVE CLAY MATERIAL, LIQUID LIMIT SHALL NOT EXCEED 35 AND BE NON-PLASTIC, AND THE PLASTICITY INDEX SHALL NOT EXCEED 10. THE MATERIAL SHALL NOT CONTAIN ORGANIC MATERIAL, CHERTY OR OTHER EXTREMELY HARD PIECES, LUMINOUS MATERIAL, OR OTHER MATERIALS THAT WOULD BE DETRIMENTAL TO THE PROPER BONDING, FINISHING, OR STRENGTH OF THE RECYCLED CONCRETE BASE. FOR BASE APPLICATIONS, AT LEAST 97% (BY WEIGHT) OF THE MATERIAL SHALL PASS A 1" SIEVE AND FOR SUBBASE APPLICATIONS, AT LEAST 97% (BY WEIGHT) OF THE MATERIAL SHALL PASS A 1-1/2" SIEVE. FOR BOTH APPLICATIONS, THE MATERIAL SHALL BE COVERED PRIMARILY DUE TO DUST AND THE MINIMUM UBR VALUES ARE TO BE NOT LESS THAN 120. COARSE AGGREGATE USED IN THE RECYCLED CONCRETE SHALL HAVE A MAXIMUM LOSS OF 45% PER LOS ANGELES ABRASION TEST. ALL MATERIALS SHALL BE WELL GRADED IN ACCORDANCE WITH REQUIREMENTS SET FORTH IN SECTION 204, F.D.O.T., STANDARD SPEC. FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION).
12. RECYCLED CONCRETE OR TRENCH ALLOWING FOR EROSION OR MAINTENANCE TO BE DONE IN THE DRY, OR ANY ACTIVITY WHICH CHANGES THE IMPERVIOUS AREA OF LAND.
13. CONTRACTOR SHALL FOLLOW REQUIRED EROSION AND SEDIMENT CONTROL PRACTICES AND INCLUDE AN EROSION CONTROL PLAN FOR REVIEW AND CITY PRIOR TO COMMENCEMENT OF CONSTRUCTION.
14. DESIGN MIXES AND PRODUCT GRADATION INFORMATION FOR ALL MATERIALS TO BE INSTALLED AS PART OF THE LAND DEVELOPMENT CODE REQUIRED IMPROVEMENTS SHALL BE SUBMITTED TO THE CITY'S DESIGNATED SITE INSPECTOR FOR ACCEPTANCE BY THE CITY. THE INFORMATION SHALL BE SUBMITTED NO LESS THAN THREE (3) WORKING DAYS PRIOR TO ANY CONSTRUCTION. SUBMITTALS SHALL INCLUDE, BUT NOT BE LIMITED TO, INFORMATION TO EVALUATE THE MATERIALS PROPOSED FOR INSTALLATION AS SUBBASE, BASE, AND PAVEMENT FOR ALL ROADWAY AND PARKING AREA APPLICATIONS. SIMILAR INFORMATION FOR ALL OTHER CONCRETE SIDEWALKS, CURBING, AND COMPARABLE STRUCTURES AND APPLICATIONS.
15. PRIOR TO PLACEMENT FLORIDA STATE CERTIFIED BATCH PLANTS MUST CERTIFY TO THE CITY'S RESIDENT PROJECT INSPECTOR THAT THE ASPHALT DELIVERED TO THE SITE IS IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.
16. EXTRACTION AND GRADATION TESTS ON ASPHALT MIXES SHALL BE PROVIDED TO THE CITY'S DESIGNATED SITE INSPECTOR FOR EVERY 2500 SQUARE YARDS OF ASPHALT, OR PART THEREOF, TO ENSURE THAT DESIGN MIXES ARE USED. THE TESTING OF THE ASPHALT SHALL BE DONE AT INTERVALS EQUIVALENT TO SUBGRADE TESTING AND SHALL CONSIST OF: AS A MINIMUM, A COMPACTION TEST, ASPHALT PAVEMENT SHALL BE COMPACTED TO 98% DENSITY PER FM 1-1166 (METHOD B). NUCLEAR DENSITY TEST, "BACKSCATTER METHOD".
17. IN ADDITION TO THE REQUIRED RESERVES, THE DEVELOPER SHALL BE REQUIRED TO OBTAIN SAMPLES OF PAVEMENT SECTIONS EXTRACTED AND TESTED BY A CERTIFIED SOILS ENGINEERING LABORATORY AT THE DEVELOPER'S EXPENSE. THE CITY'S DESIGNATED SITE INSPECTOR SHALL DESIGNATE THE LOCATIONS OF THE TEST CURB LOCATIONS.
18. THE FINISHED PAVEMENT EDGE SHALL BE WITHIN ONE EIGHTH INCH (1/8") ABOVE THE ADJACENT CONCRETE CURB FOR CURBS COLLECTING AND CONVEYING STORMWATER.
19. CONCRETE CURBS SHALL BE PROVIDED ON BOTH SIDES OF ALL STREETS AND ALL CONCRETE CURBS SHALL BE CONSTRUCTED WITH 3500 P.S.I. CONCRETE AT 28 DAYS.
20. CONCRETE CURBING, SIDEWALKS, PAVEMENT AND SIMILAR CONCRETE AREAS SHALL BE SAW CUT WITHIN 4 TO 18 HOURS OF PLACEMENT. SAW CUTS SHALL BE 1/2" IN WIDTH TO A DEPTH OF ONE FORTH OF THE TOTAL DEPTH OF CONCRETE OR 1-1/2", WHICHEVER IS LESS. SAW CUTS SHALL BE LOCATED AT INTERVALS OF TEN FEET (10') FOR CURBING & FIVE FEET (5') FOR SIDEWALKS WITH EXPANSION JOINTS AT STREET INTERSECTIONS, RADIUS POINTS, STRUCTURES, AND ALONG CURVES AT SIXTY FEET (60') INTERVALS. JOINT MATERIAL SHALL BE REQUIRED TO BE INSTALLED THROUGH THE ENTIRE DEPTH OF THE CONCRETE CURB. FOR LINAL SECTIONS OF CURBS, EXPANSION JOINTS SHALL BE LOCATED AT A MAXIMUM SPACING OF FIVE-HUNDRED FEET (500') AND SHALL BE 1/2" IN WIDTH.
21. AN "X" SHALL BE CUT IN THE CURB TO MARK THE LOCATION OF WATER DISTRIBUTION SYSTEM VALVE.
22. A "Y" SHALL BE CUT IN THE CURB TO MARK THE LOCATION OF ALL SEWER SERVICES.
23. A "X" SHALL BE CUT IN THE CURB TO MARK THE LOCATION OF ALL POTABLE WATER SERVICES.
24. THREE (3) CONCRETE CYLINDERS SHALL BE TAKEN AND TESTED (1 IN 14 DAYS, 1 IN 28 DAYS & 1 IN 56 DAYS) FOR EVERY FIFTY (50) CUBIC YARDS OF CONCRETE PLAC

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LEGEND:

- SF PROPOSED SILT FENCE
- PROPOSED DEMOLITION / CLEARING AREA

- NOTES:
- CONTRACTOR SHALL PROVIDE SIDEWALK CLOSURE SIGNS AS NEEDED FOR CONSTRUCTION.
 - ALL ELECTRICAL SERVICE LINES SHALL BE ROUTED UNDERGROUND CONTRACTOR TO COORDINATE WITH APPROPRIATE UTILITY PROVIDERS.



CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL
PLANNING
TRANSPORTATION

NO.	DATE	BY	SUBMITTALS / REVISIONS
1	06-10-20	KR	REVISED PER CITY COMMENTS DATED 07-28-2020
2	08-14-20	TR	REVISED PER ARCHITECT'S COMMENTS

SMCC PARKING LOT - PHASE 2
FINAL ENGINEERING PLANS
DEMOLITION & EROSION
CONTROL PLAN

CITY OF FERNANDINA BEACH
NASSAU COUNTY, FLORIDA

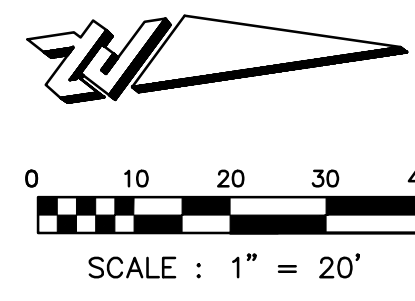
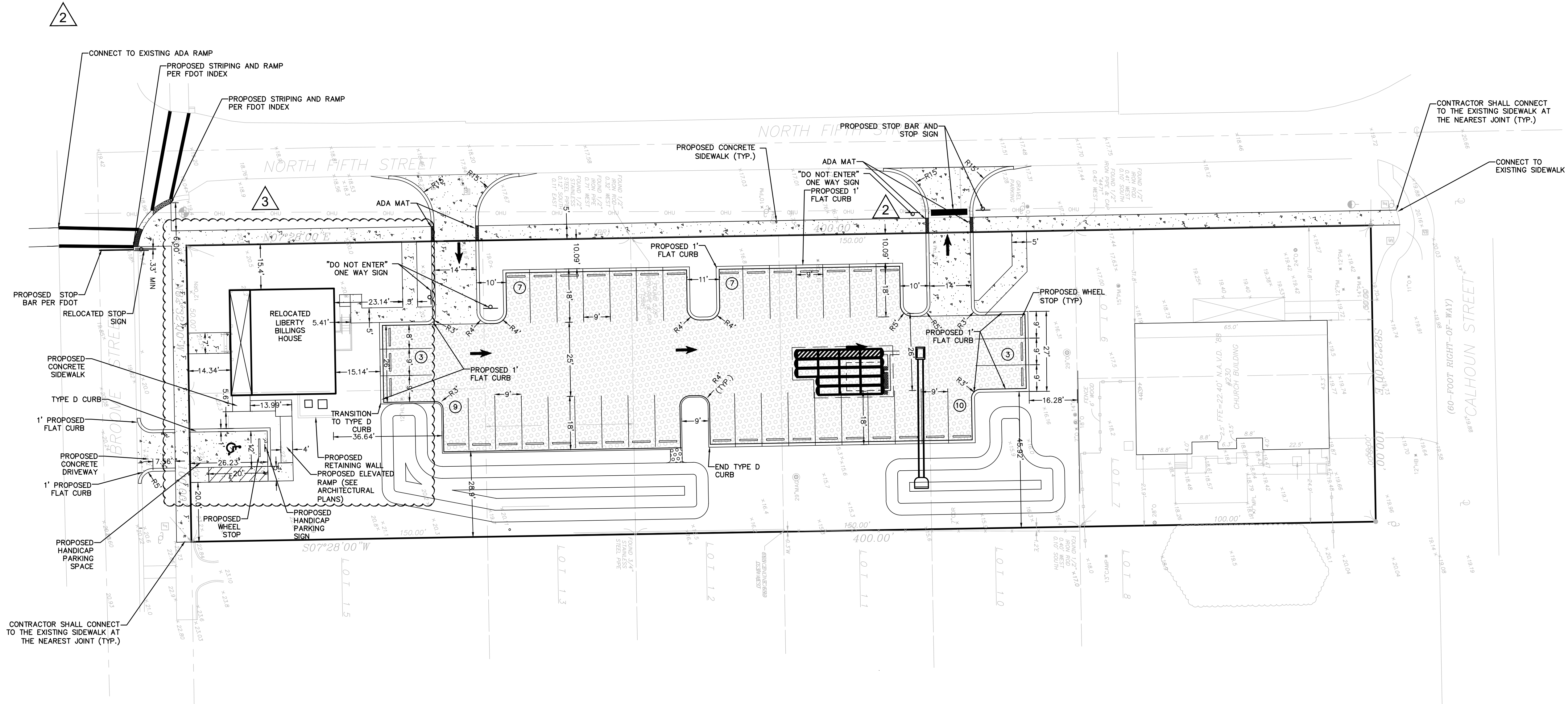
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CHECKED BY:	KTR
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Randy Hudak

Digitally signed by Randy Hudak
DN: cn=Randy Hudak,
ou=ZEV Cohen and Associates Inc., c=US
Date: 2020.08.18 13:38:52 -0400

KRISTOPHER ROWLEY, P.E. NO. 84263
NOT VALID WITHOUT SEAL

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LEGEND:

- PROPOSED PAVERS
- PROPOSED ASPHALT
- PROPOSED CONCRETE
- PROPOSED PARKING COUNT
- PROPOSED HANDICAP PARKING SPACE
- PROPOSED STREET LIGHT

- NOTES:
1. ALL HANDICAP RAMPS ARE TO BE CONSTRUCTED PER FDOT INDEX NO. 522-002, LATEST EDITION.
 2. SIDEWALKS ALONG BROOME ST. AND NORTH 5TH ST. TO BE STAMPED WITH HEXAGONAL PATTERN.
 3. ALL CROSSWALKS TO BE THERMOPLASTIC STRIPING.



CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL
PLANNING
TRANSPORTATION

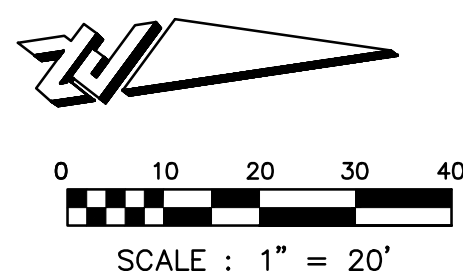
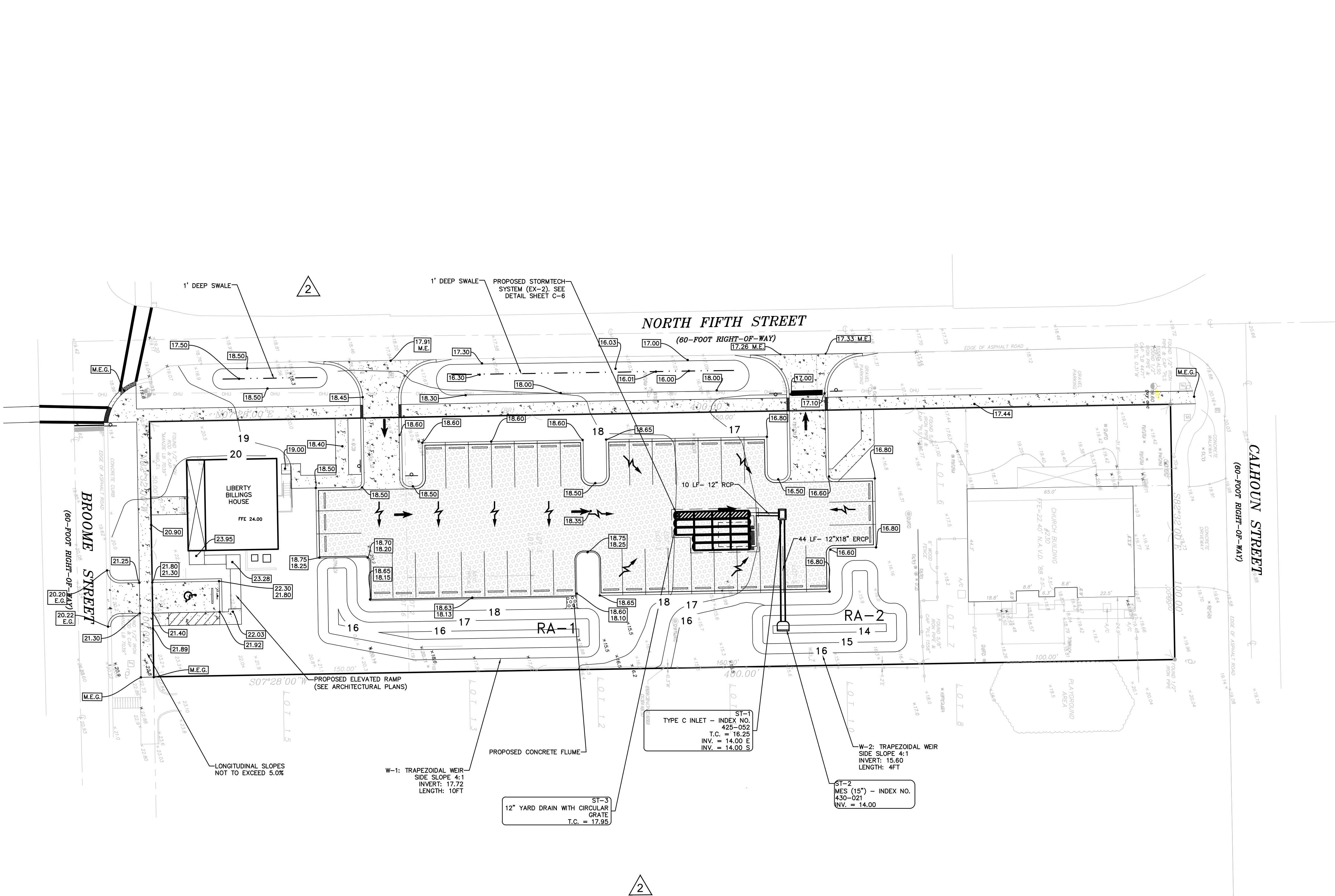
NO.	DATE	BY	REVISIONS
1	08-10-20	KR	REVISIONS DATED 07-28-2020
2	08-10-20	KR	REVISED PER CITY COMMENTS, RECEIVED 07-31-2020
3	08-14-20	TR	REVISED PER ARCHITECT'S COMMENTS

SMCC PARKING LOT-PHASE 2
FINAL ENGINEERING PLANS
GEOMETRY, STRIPING &
SIGNAGE PLAN

PROJECT NO.: ZC 68003
DESIGNED BY: SHK
DRAFTED BY: SHK
CHECKED BY: KTR
DRAWING FILE: 04_68003GSS_PH2
XREFS: 68003BAS_PH2.DWG
XREFS: 68003SURV_PH2.DWG

Randy Hudak
Digitally signed by Randy Hudak
DN: cn=Randy Hudak,
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o=Zev Cohen and Associates Inc., c=US
Date: 2020.08.18 13:39:09-04'00'

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LEGEND:

- PROPOSED ASPHALT
- PROPOSED PAVERS
- PROPOSED CONCRETE
- PROPOSED STORMWATER INLET
- PROPOSED STORMWATER MANHOLE
- PROPOSED MES
- PROPOSED YARD DRAIN
- PROPOSED GRADE
- PROPOSED MATCH EXISTING GRADE LABEL
- EXISTING GRADE LABEL
- PROPOSED FINISHED FLOOR ELEVATION
- PROPOSED FLOW DIRECTION
- PROPOSED LOT GRADING TYPE
- PROPOSED STREET LIGHT

NOTES:
1. ALL SIDEWALKS SHALL BE CONSTRUCTED PER ADA STANDARDS.
2. ALL STRUCTURES SHALL HAVE A 12"x12" SILT SUMP FILLED WITH FDOT TYPE 57 STONE.
3. PERIODIC MAINTENANCE OF SYSTEM TO REMOVE ACCUMULATED SEDIMENT IS THE RESPONSIBILITY OF THE PROPERTY OWNER.



CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL PLANNING
TRANSPORTATION

NO.	DATE	BY	REVISIONS
1	06-10-20	KR	COMMENTS DATED 07-28-2020
2	08-10-20	KR	REVISED PER CITY COMMENTS RECEIVED 07-31-2020
3	08-14-20	TR	REVISED PER ARCHITECT'S COMMENTS

SMCC PARKING LOT - PHASE 2
FINAL ENGINEERING PLANS
PAVING GRADING &
DRAINAGE PLAN

NASSAU COUNTY, FLORIDA
CITY OF FERNANDINA BEACH

PROJECT NO.: ZC 68003
DESIGNED BY: SHK
DRAFTED BY: SHK
CHECKED BY: KTR
DRAWING FILE: 05_68003PGD_PH2
XREFS: 68003BAS_PH2.DWG
XREFS: 68003SURV_PH2.DWG

Randy Hudak

Digitally signed by Randy Hudak
DN: cn=Randy Hudak,
ou=Zev Cohen and Associates Inc, c=US
Date: 2020.08.18 13:39:26 -0400

KRISTOPHER ROWLEY, P.E. NO. 84263
NOT VALID WITHOUT SEAL

SHEET: C5 OF 10

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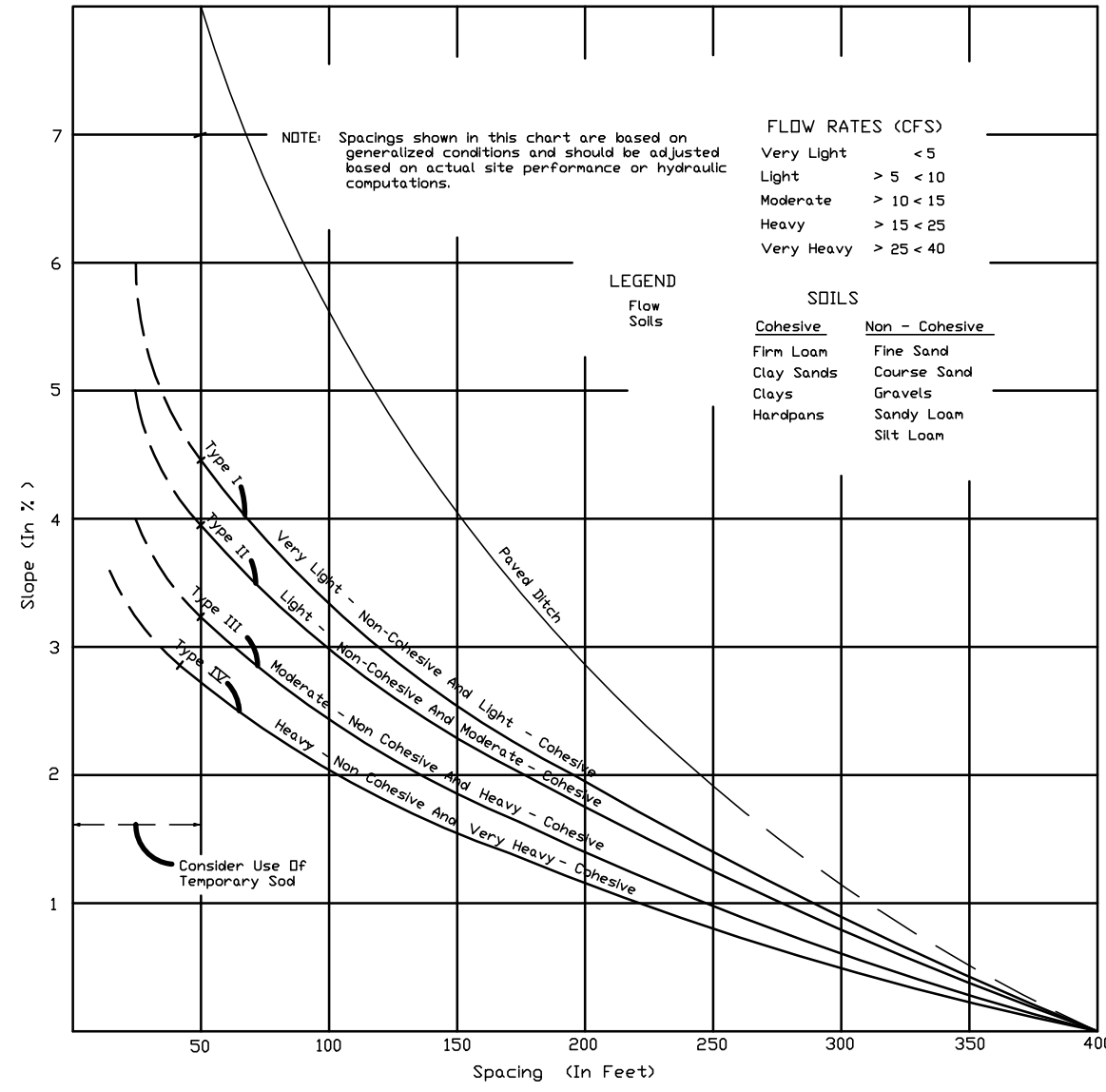
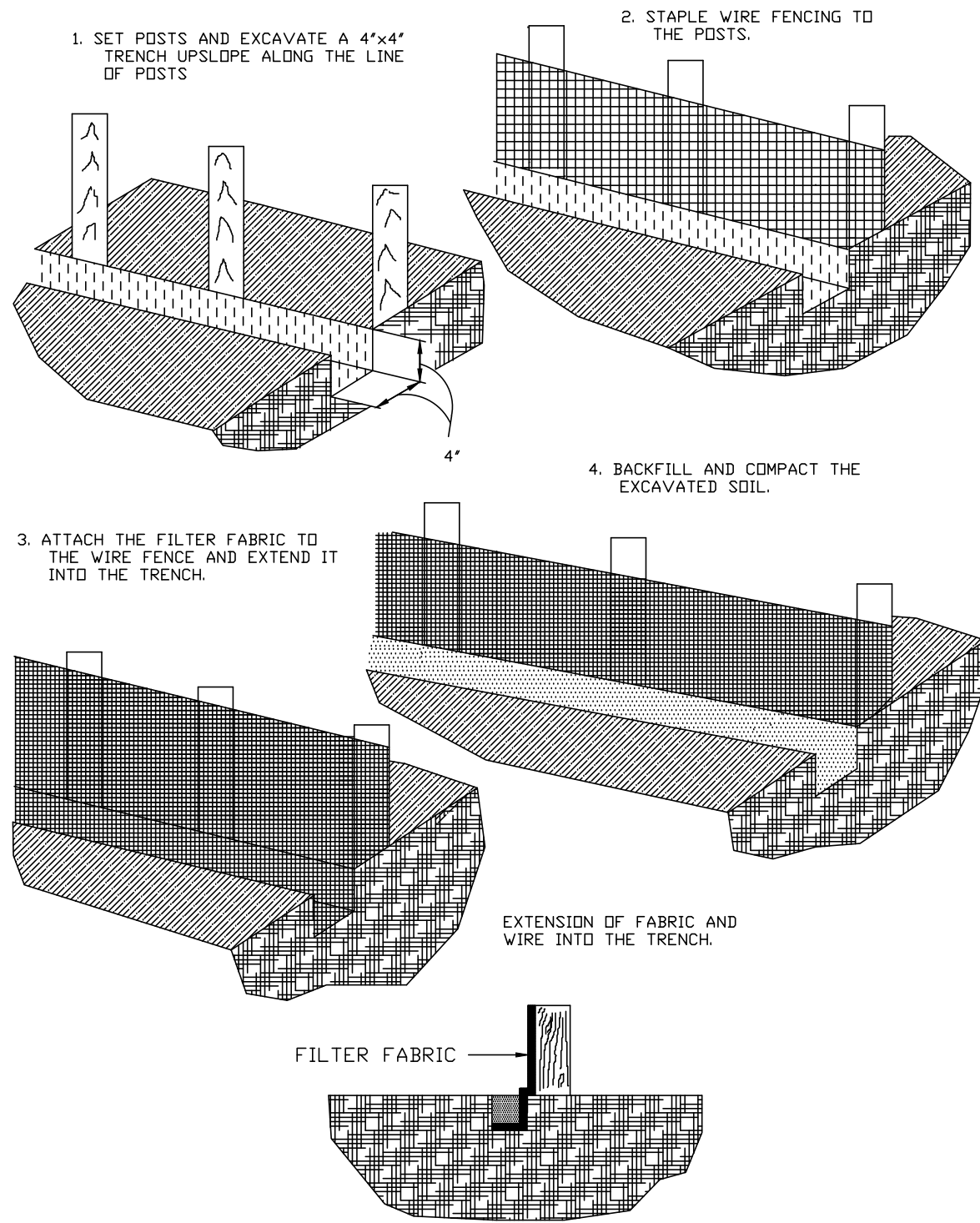


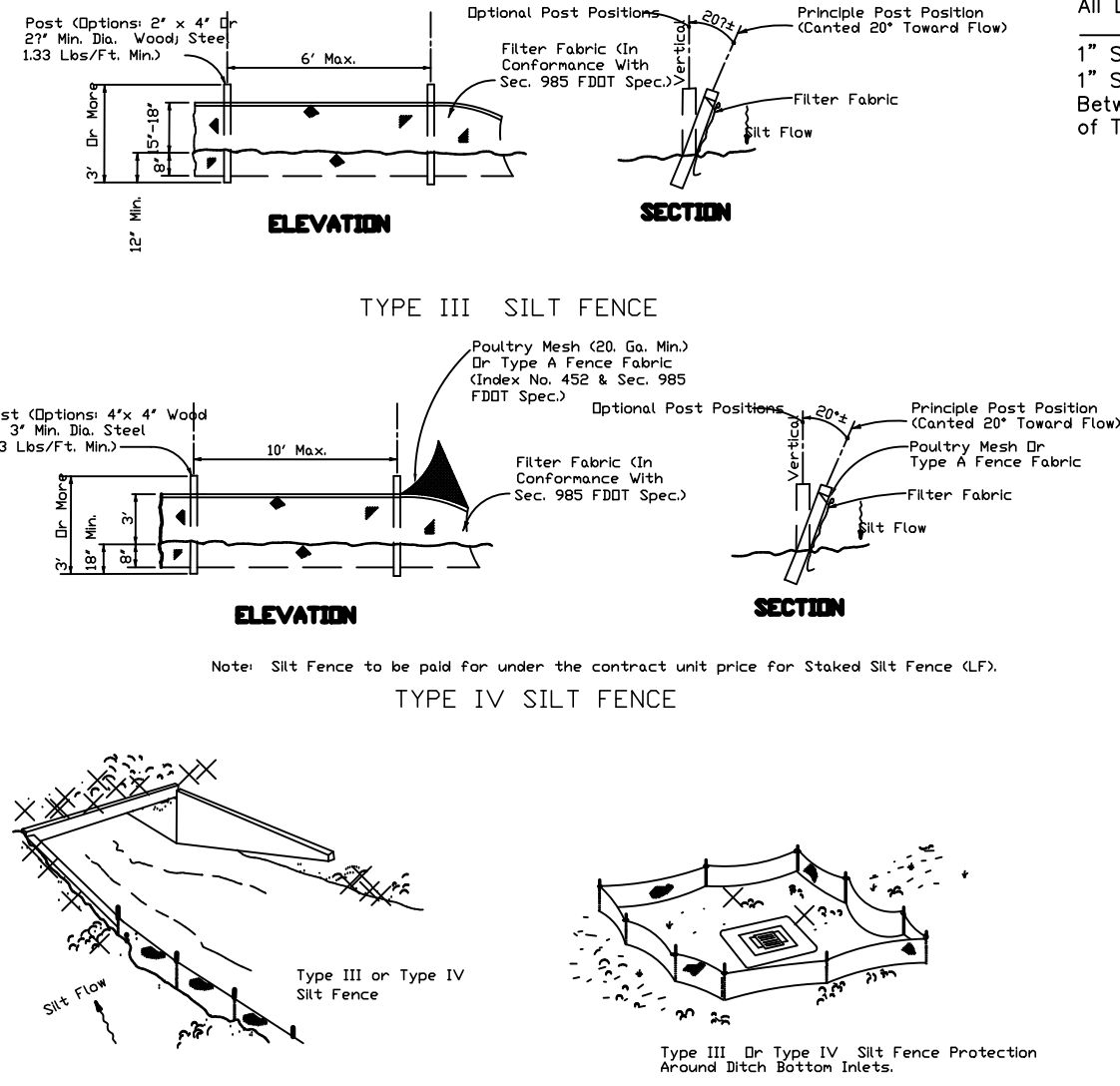
CHART I
RECOMMENDED SPACING FOR TYPE I AND TYPE II HAY BALE BARRIERS, AND TYPE III
AND TYPE IV SILT FENCES AND PAVED DITCH HAY BALE BARRIERS

SPACING RECOMMENDATION FOR
SILT FENCES AND HAY BALES



CONSTRUCTION DETAILS
FOR SILT FENCES

2

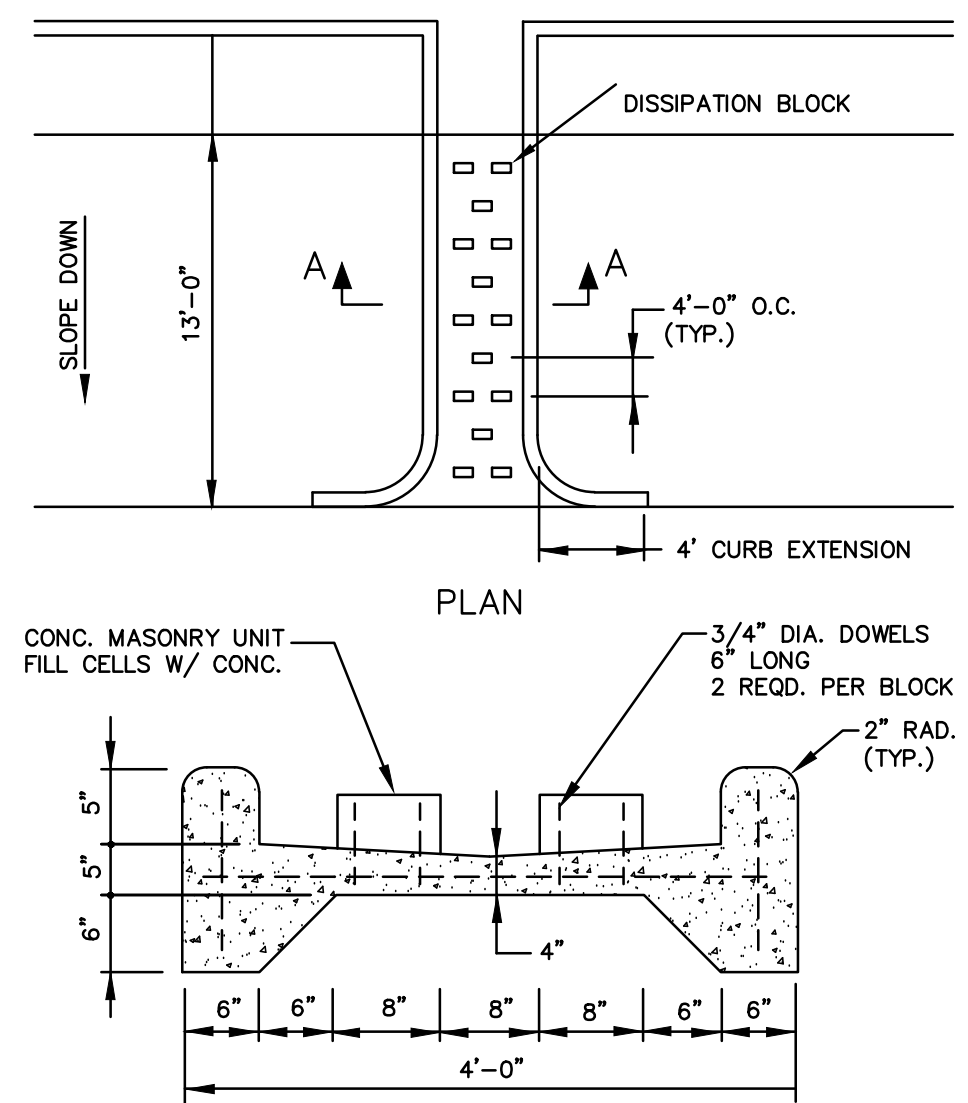
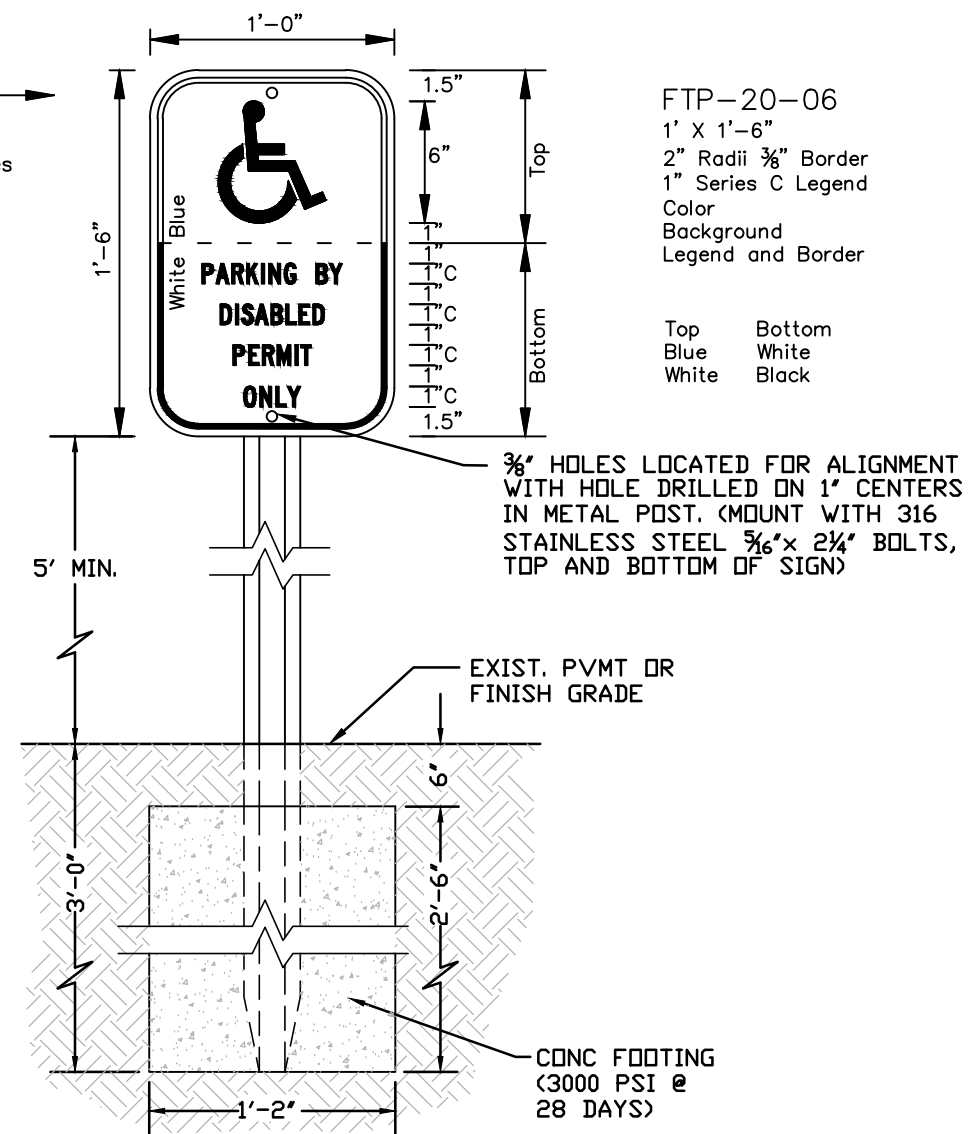


SILT FENCE APPLICATIONS
Type IV Silt Fence
Type III Silt Fence
Note: Spacing for Type III Fence to be in accordance with Chart I, Plate D-900 and ditch installations at drainage structures above.

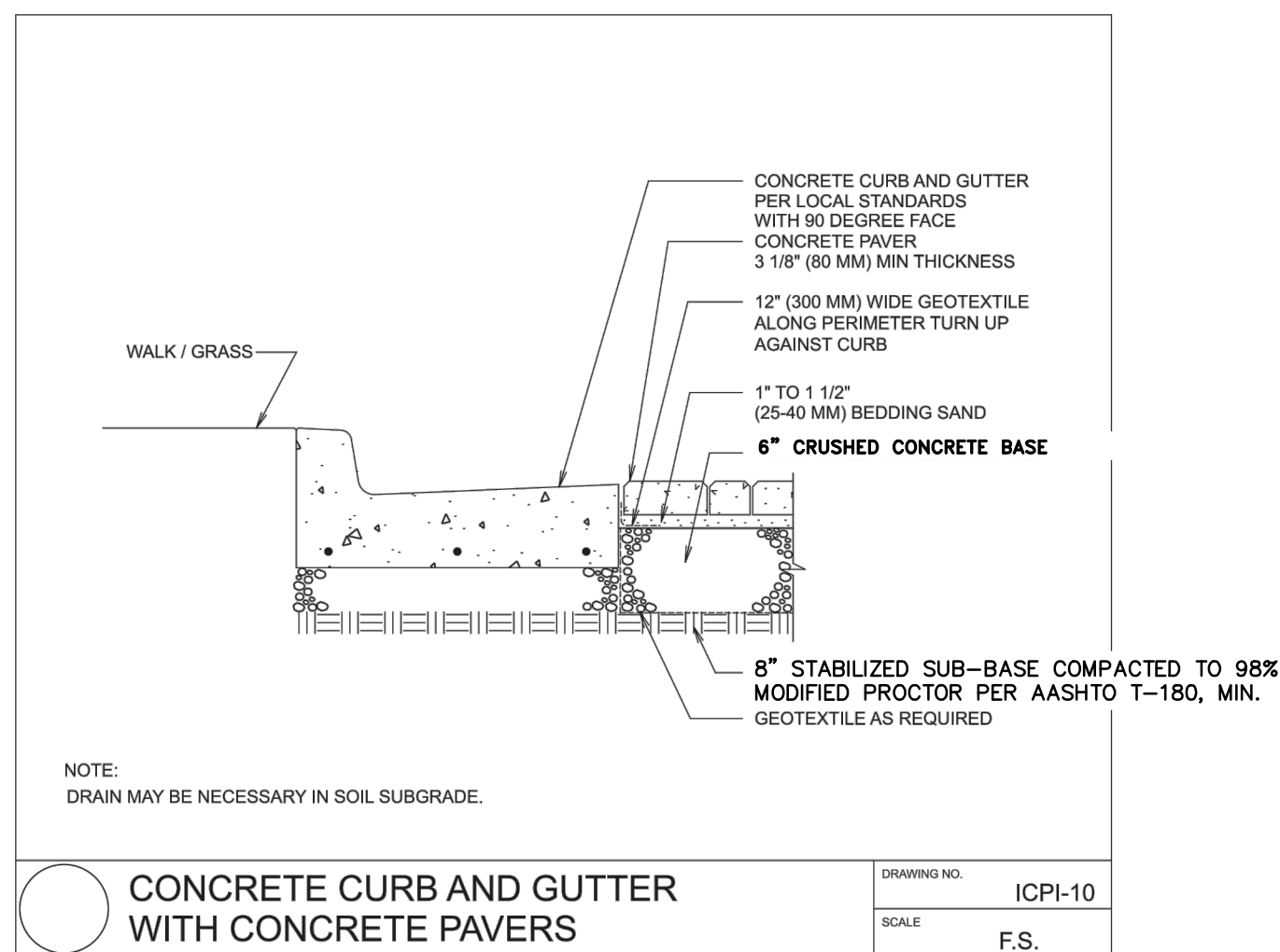
SILT FENCE
TYPE III & IV

- NOTES:
- HANDICAP PARKING SIGN SHALL CONFORM WITH CURRENT FEDERAL, STATE LOCAL & ADA CODES & REGULATIONS, LATEST EDITION.
 - SIGNS WILL BE FABRICATED BY USING A REFLECTING COATING IN THE SYMBOL, MESSAGE AND BORDERS APPLIED TO A SHEET ALUMINUM BACKING (12"x18"x0.80"). MESSAGE LETTERING SHALL BE UPPER CASE (SERIES B) 2" HIGH IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
 - THE SYMBOL IS COMPOSED OF TWO ELEMENTS, A WHITE WHEEL-CHAIR FIGURE (WHICH SHOULD ALWAYS FACE RIGHT) ON A SQUARE BACKGROUND, INTERNATIONAL BLUE IN COLOR (FED. STD. 595a, COLOR #15180).
 - METAL SIGN POSTS TO BE GALVANIZED U-IRON. ALL BOLTS, NUTS, WASHERS AND SCREWS MUST BE 316 STAINLESS STEEL.
 - CONCRETE FOOTING SHALL BE OF PORTLAND CEMENT AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I.
 - SIGN POST SHALL BE MINIMUM 2'-0" CLEAR FROM BACK OF CURB OR WHEEL STOP.
 - SIGN POST SHALL BE DESIGNED TO WITHSTAND 120 M.P.H. WIND LOAD.

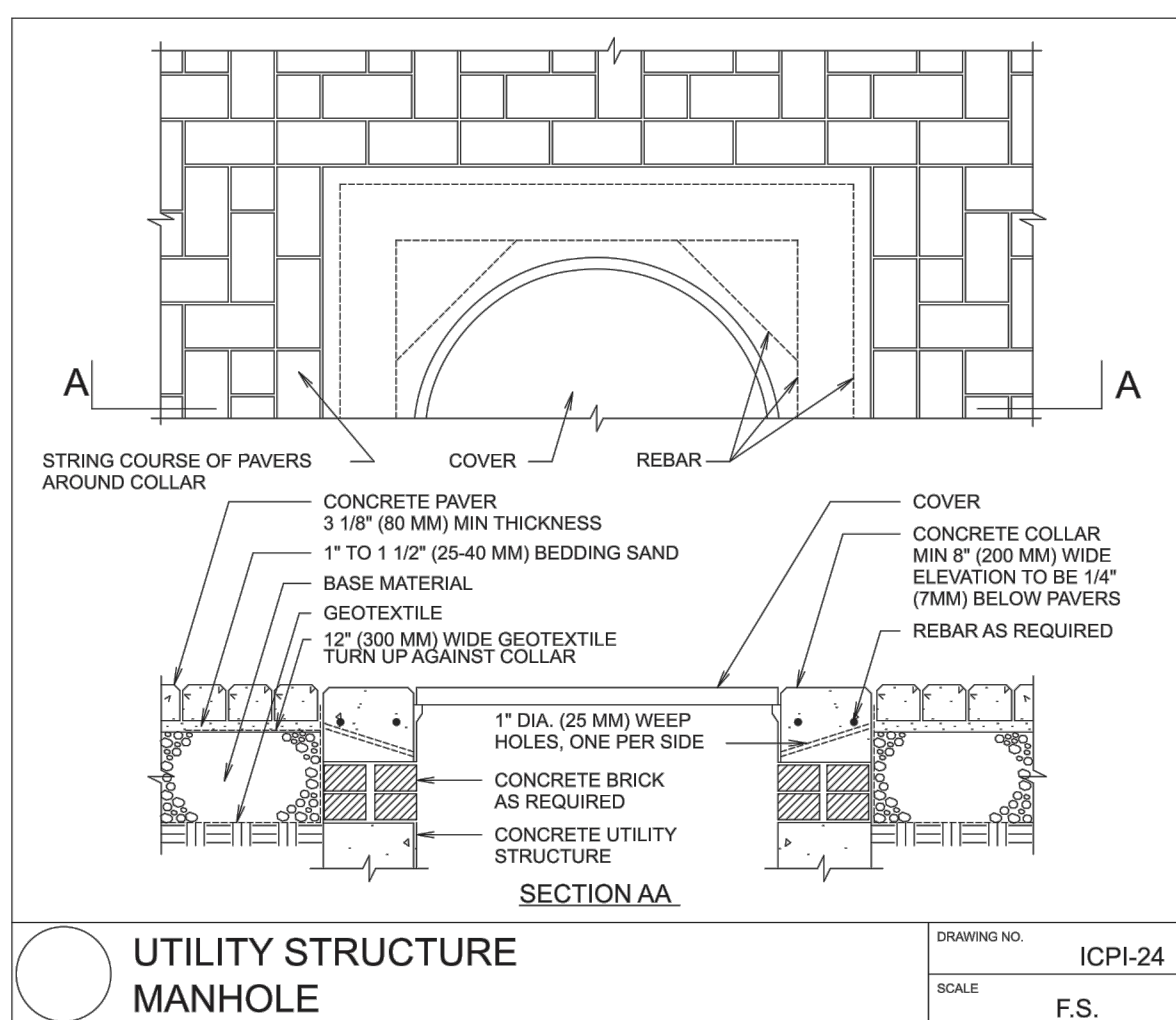
HANDICAP PARKING SIGN
N.T.S



ENERGY DISSIPATOR
N.T.S.

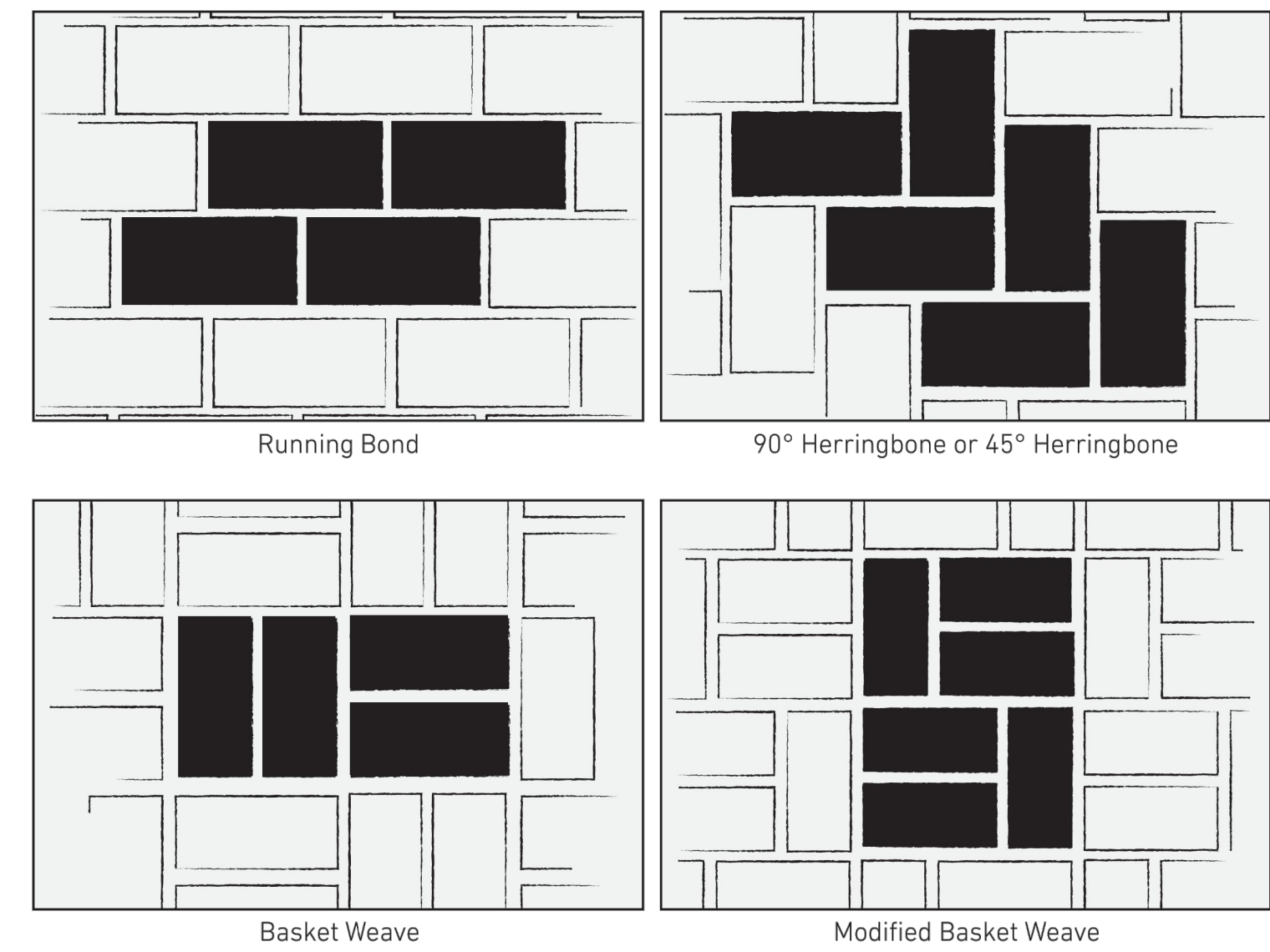


CONCRETE CURB AND GUTTER
WITH CONCRETE PAVERS



UTILITY STRUCTURE
MANHOLE

AQUA-BRIC®



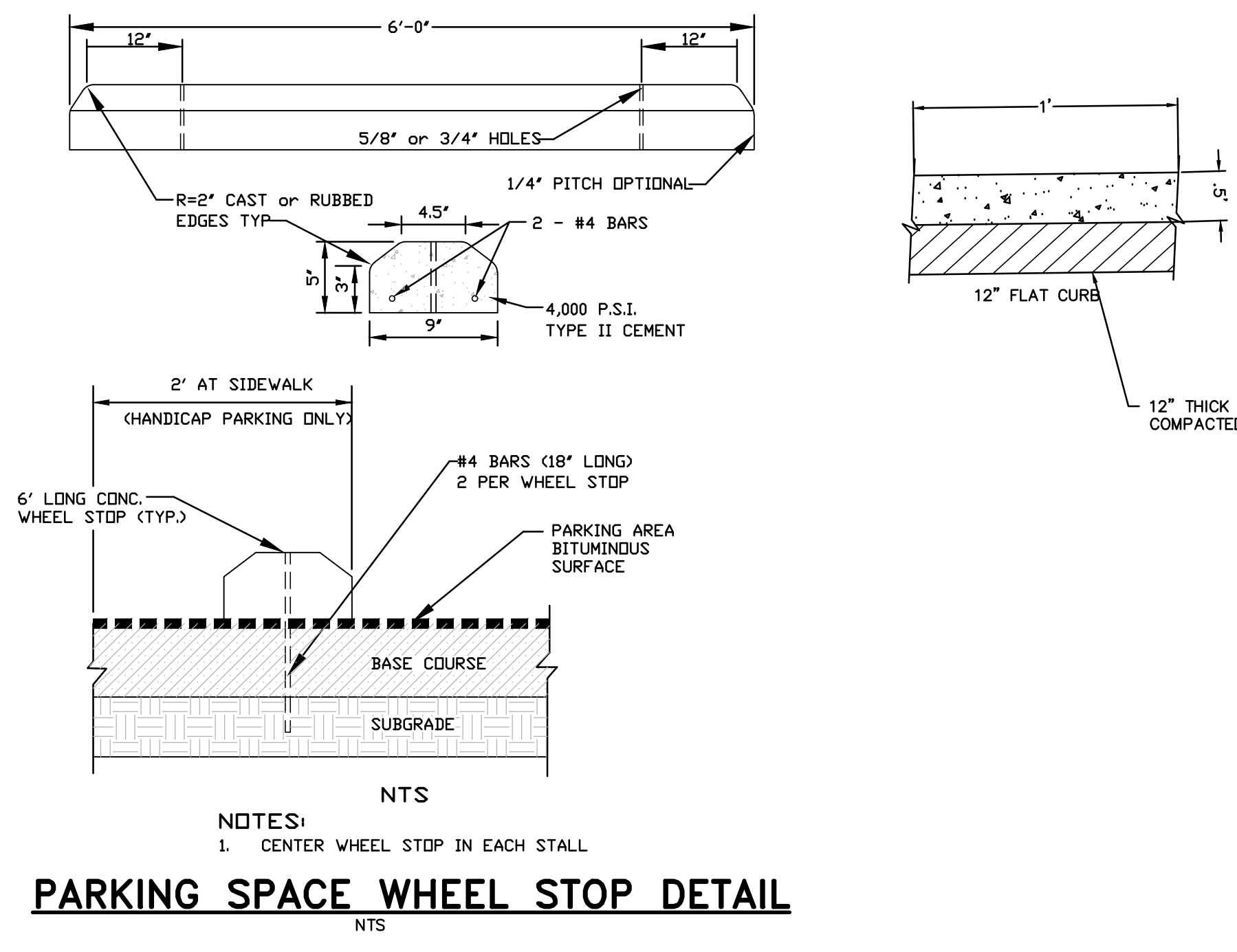
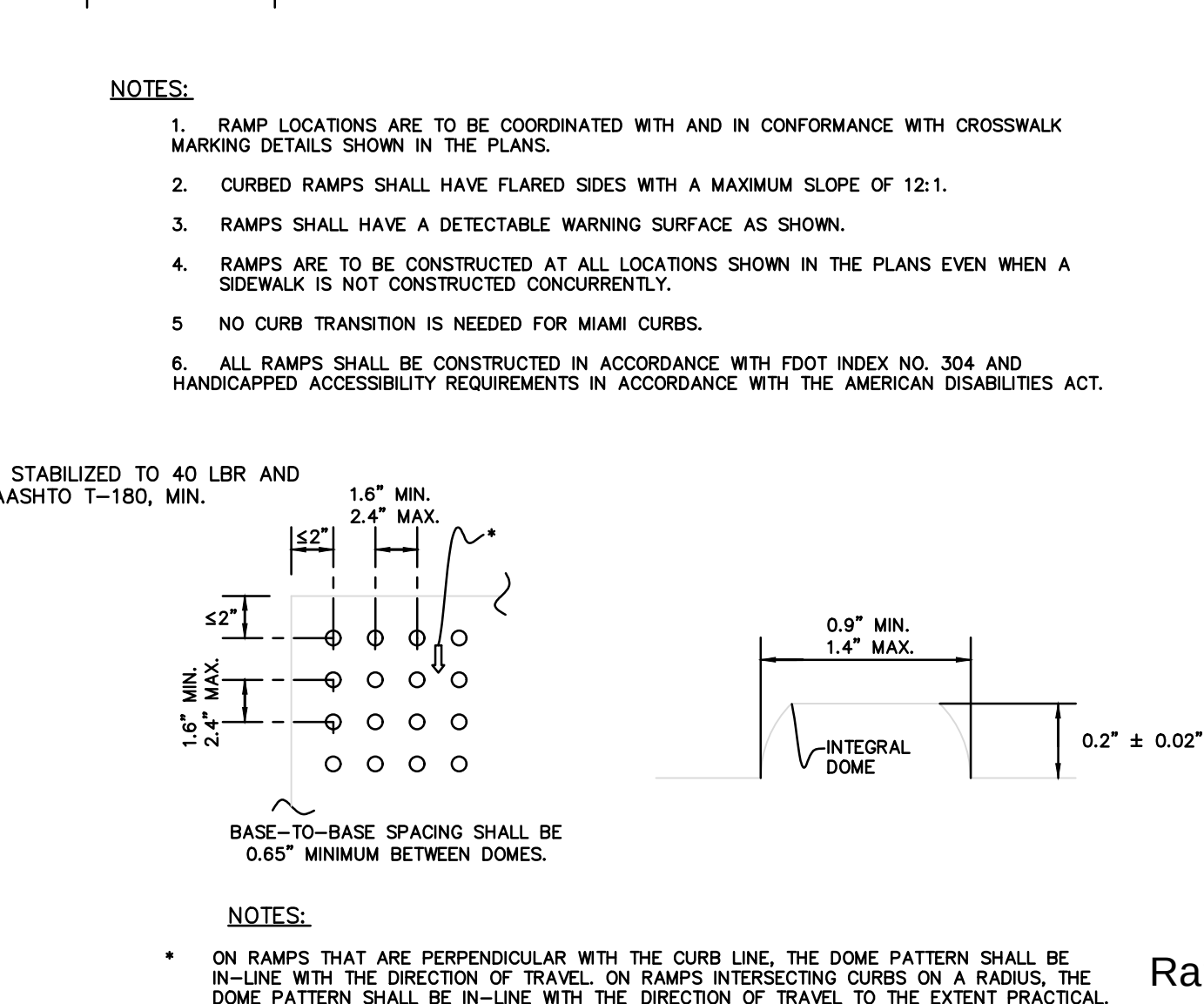
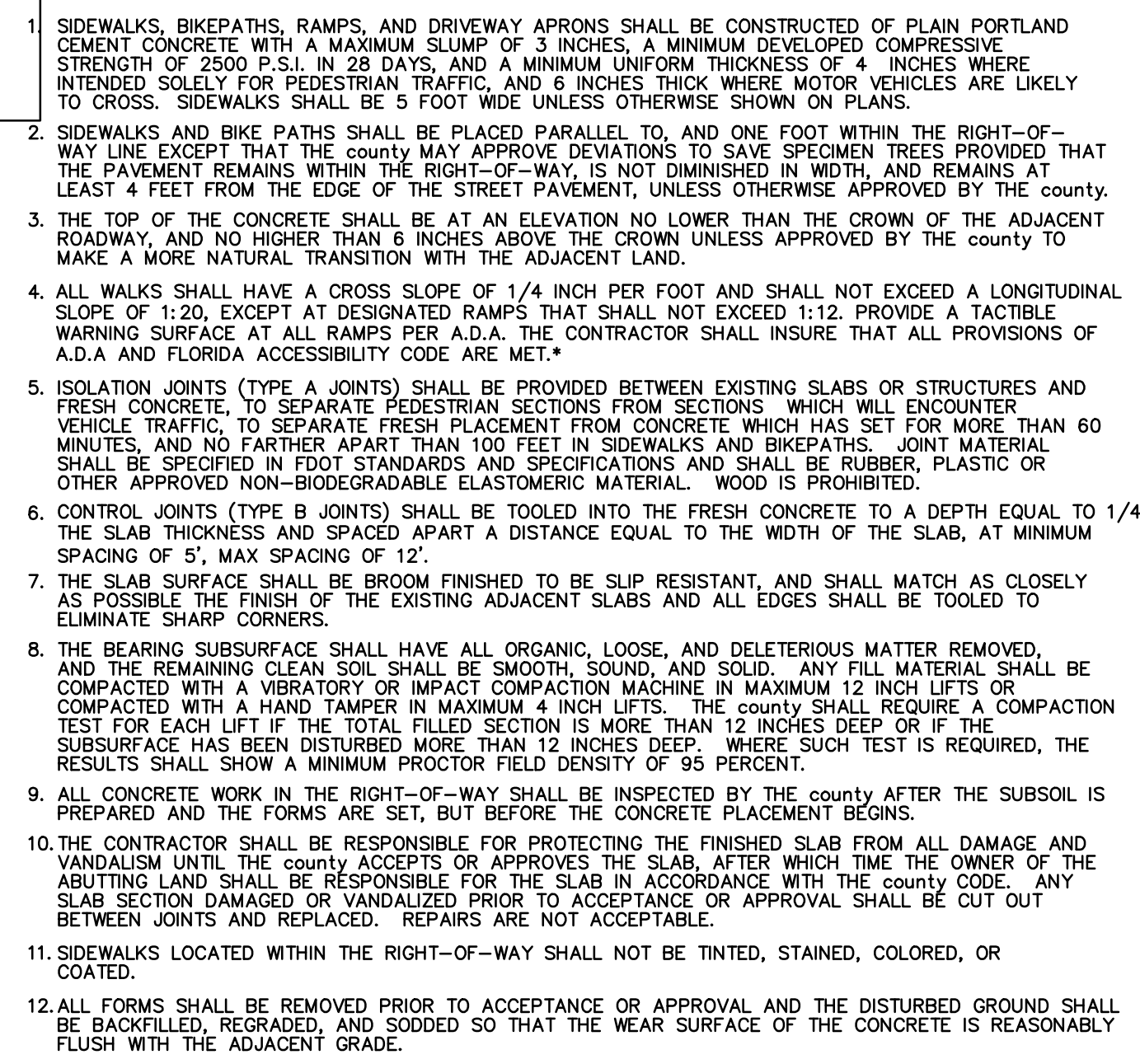
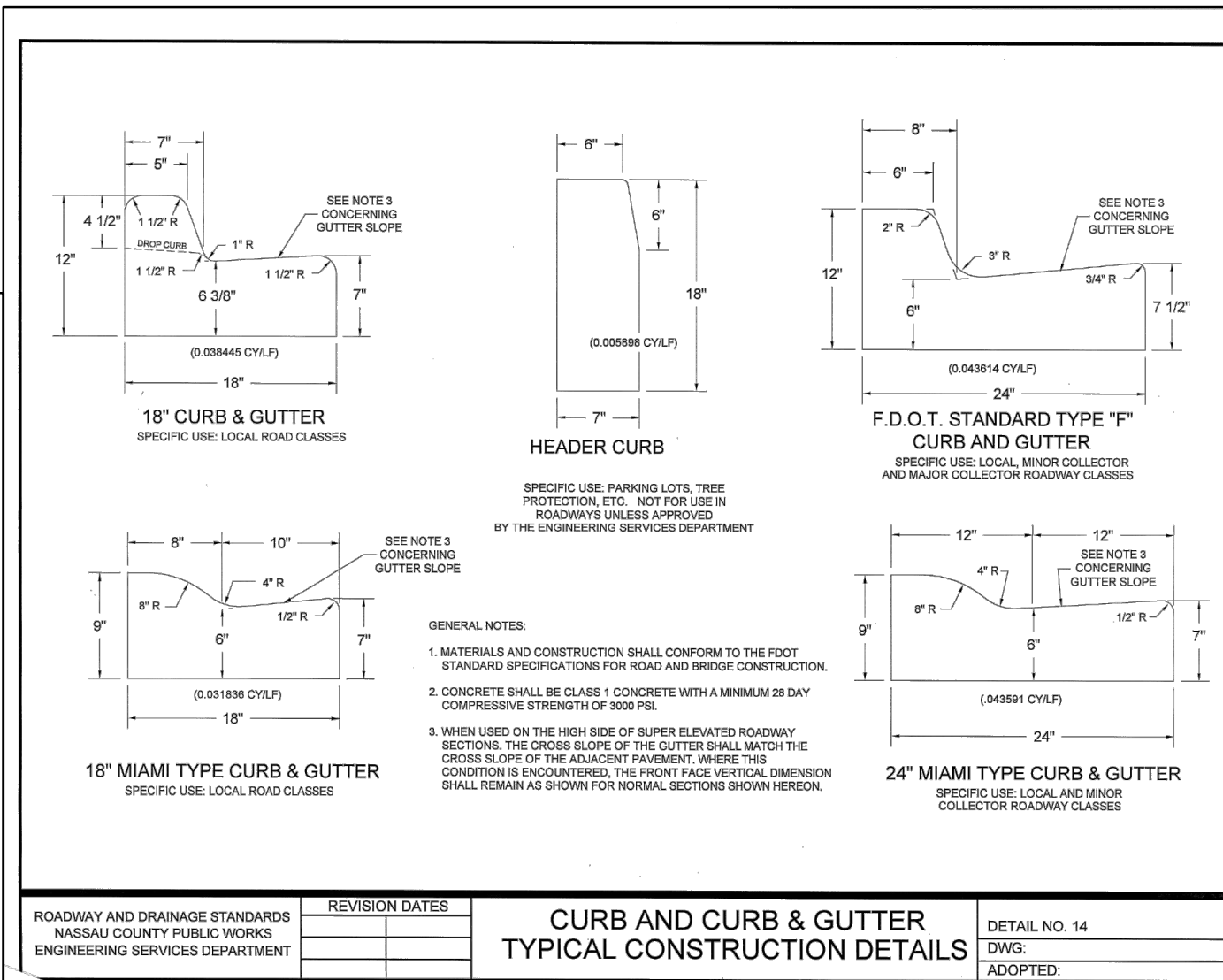
SMCC PARKING LOT- PHASE 2
FINAL ENGINEERING PLANS
CONSTRUCTION DETAILS

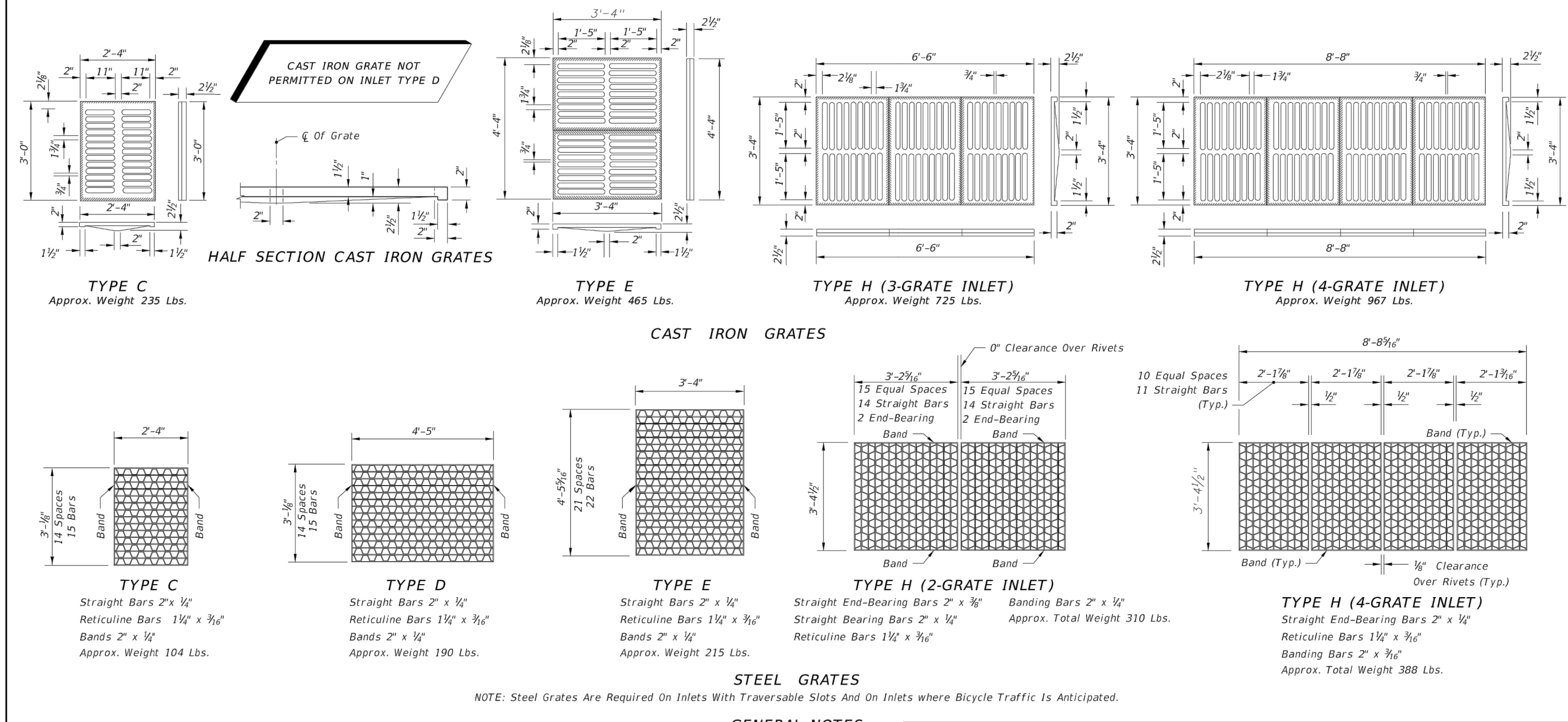
PROJECT NO.: ZC 68003
DESIGNED BY: SHK
DRAFTED BY: SHK
CHECKED BY: KTR

DRAWING FILE: 06-10_68003DET_PH2
XREF'S: 68003BAS, PH2.DWG
XREF'S: 68003SURV, PH2.DWG

Randy Hudak
Digitally signed by Randy Hudak
DN: cn=Randy Hudak,
c=USA, ou=000000011609622000001059,
ou=Zev Cohen and Associates Inc, C=US
Date: 2020.08.18 13:39:42-0400

KRISTOPHER ROWLEY, P.E. NO. 84263
NOT VALID WITHOUT SEAL
SHEET: C6 OF 10

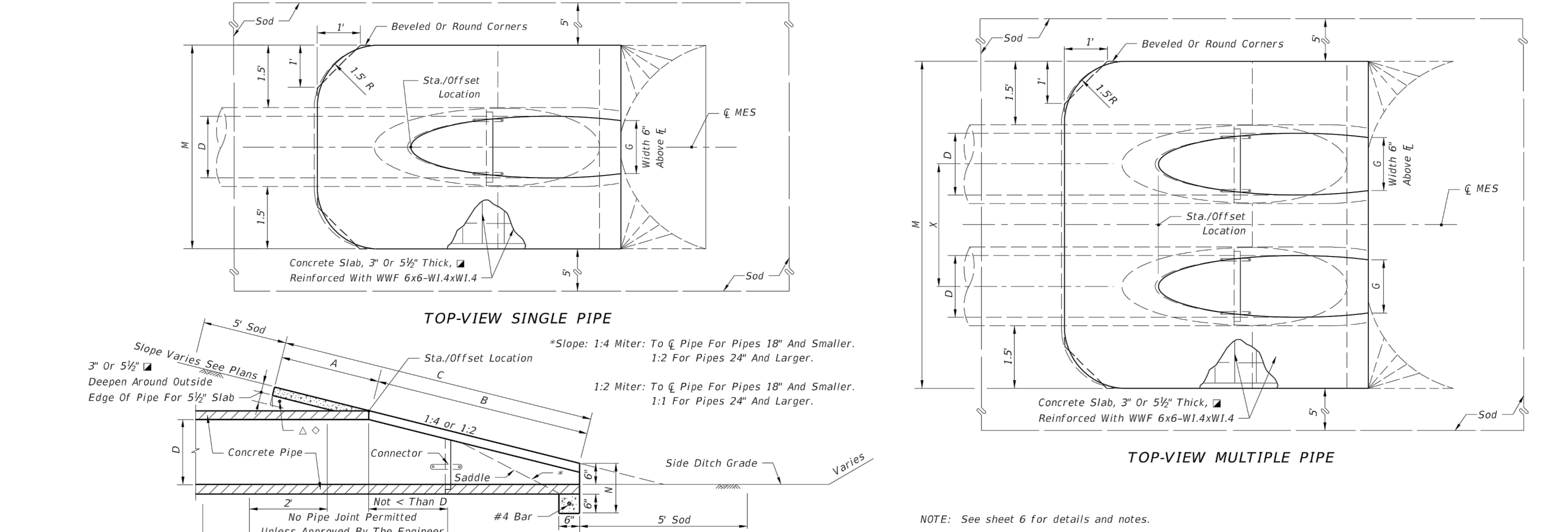




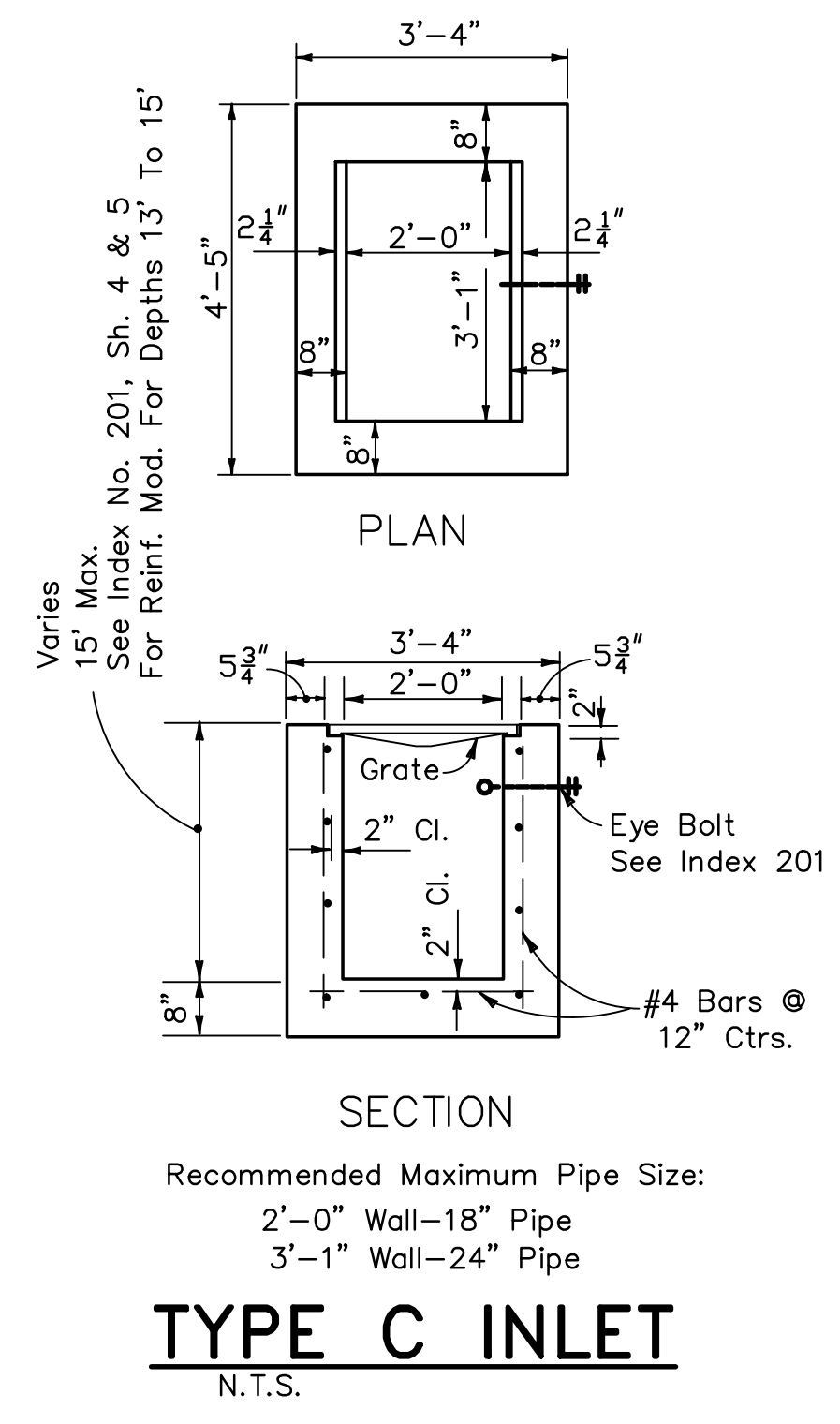
- GENERAL NOTES**
- These inlets are suitable for bicycle traffic and are to be used in ditches, medians and other areas subject to infrequent traffic loadings but are not to be placed in areas subject to heavy wheel loads. These inlets may be placed in areas subject to occasional pedestrian traffic such as landscaped areas and pavement areas where pedestrians can walk around the inlet.
 - Inlets subject to minimal debris should be constructed without slots. Where debris is a problem inlets should be constructed with slots. Slotted inlets located within roadway clear zones and areas subject to pedestrians shall have traversable slots. The traversable slot modification is not adaptable to Inlet Type H. Slots may be constructed at either or both ends as shown on plans. Traversable slots shall not be used in areas subject to occasional bicycle traffic.
 - Steel grates are to be used on all inlets where bicycle traffic is anticipated. Steel grates are to be used on all inlets with traversable slots. Either cast iron or steel grates may be used on inlets without slots where bicycle traffic is not anticipated. Either cast iron or steel grates may be used on all inlets with traversable slots.
 - Recommended maximum pipe sizes shown are for concrete pipe. Size for other types of pipe must be checked for fit.
 - All exposed edges and corners shall be 1/4" chamfer or tool to 1/4" radius.
 - Concrete inlet pavement to be used on inlets without slots and inlets with non-traversable slots only when called for in the plans. Not required on all traversable slot inlets. Cost to be included in contract unit price for inlets. Quantities shown are for information only.
 - Traversable slots constructed in existing inlets shall be paid for as inlets partial. For conversion work and method of payment see TRAVERSABLE SLOT INLETS (PARTIAL) FOR EXISTING INLETS.
 - Sodding to be used on all inlets not located in paved areas and paid for under contract unit price for Performance Turf, 5'.
 - For supplementary details see Index 425-001.
 - All reinforcing is Grade 60 bars with 2" min. cover unless otherwise noted. Bars to be cut or bent for 1/2" clearance around pipe opening. Provide one additional #4 bar above and at each side of pipe opening.

LAST REVISION	DESCRIPTION:	FY 2019-20 STANDARD PLANS	DITCH BOTTOM INLET TYPES C, D, E AND H	INDEX	SHEET
11/01/17				425-052	3 of 7

		DIMENSIONS AND QUANTITIES																							
		M								N								5 1/2" CONCRETE SLAB (CY) ▴				SODDING (SY)			
		Single		Double		Triple		Quad		Single		Double		Triple		Quad		Single		Double		Triple		Quad	
D	X	A	B	C	E	F	G	H																	
15'	2'-2"	1.92	2.18	4.19	2.06	5	1.22	2.9	4.63	7.21	9.79	12.37	1.19	0.38	0.58	0.77	0.96	21	24	27	30				
18'	2'-10"	1.97	2.74	4.71	2.56	6	1.41	3.4	4.92	7.72	10.38	13.42	1.21	0.44	0.65	0.87	1.09	22	25	28	31				
24'	3'-5"	2.06	3.85	5.91	3.56	7	1.73	3.4	5.50	8.92	12.33	15.75	1.25	0.54	0.83	1.12	1.42	24	28	32	35				
30'	4'-3"	2.15	4.95	7.10	4.56	8	2.00	3.4	6.08	10.33	14.58	18.83	1.29	0.66	1.09	1.50	1.91	26	31	35	40				
36'	5'-1"	2.25	6.08	8.33	5.56	9	2.24	3.4	6.67	11.72	16.83	21.92	1.33	0.81	1.38	1.95	2.51	28	34	39	45				
42'	6'-0"	2.34	7.21	9.55	6.56	10	2.45	3.4	7.25	13.25	19.25	25.25	1.38	0.97	1.70	2.45	3.19	30	37	43	50				
48'	6'-9"	2.43	8.33	10.76	7.56	11	2.69	3.4	7.83	14.58	21.33	28.08	1.42	1.13	2.04	2.93	3.84	32	39	47	54				
54'	8'-6"	2.52	9.44	11.96	8.56	12	2.83	3.4	8.42	16.08	23.75	31.42	1.46	1.31	2.44	3.58	4.72	34	42	51	59				
60'	8'-6"	2.62	10.56	13.18	9.56	14	3.00	4.4	9.00	17.50	26.00	34.50	1.50	1.51	2.89	4.28	5.68	36	45	55	64				
66'	9'-2"	2.71	11.68	14.39	10.56	15	3.18	4.4	9.58	18.75	27.92	37.08	1.54	1.68	3.25	4.84	6.43	38	48	58	68				
72'	10'-0"	2.80	12.80	15.60	11.56	16	3.39	4.4	10.16	20.16	30.16	40.16	1.58	1.89	3.74	5.59	7.45	40	51	62	73				
15'	2'-2"	2.27	4.09	6.36	4.03	8	1.22	4.0	4.63	7.21	9.79	12.37	1.19	0.57	0.87	1.15	1.44	23	26	29	32				
18'	2'-10"	2.36	5.12	7.48	5.03	9	1.41	4.0	4.92	7.72	10.38	13.42	1.21	0.66	0.99	1.31	1.65	25	28	31	35				
24'	3'-5"	2.53	7.18	9.71	7.03	11	1.73	4.0	5.50	8.92	12.33	15.75	1.25	0.85	1.30	1.75	2.20	28	32	36	40				
30'	4'-3"	2.70	9.25	11.95	9.03	13	2.00	4.0	6.08	10.33	14.58	18.83	1.29	1.10	1.74	2.39	3.05	31	36	41	46				
36'	5'-1"	2.87	11.31	14.18	11.03	15	2.24	4.0	6.67	11.72	16.83	21.92	1.33	1.32	2.21	3.08	3.96	34	40	46	52				
42'	6'-0"	3.05	13.37	16.42	13.03	17	2.45	4.0	7.25	13.25	19.25	25.25	1.38	1.58	2.76	3.91	5.09	38	44	51	58				
48'	6'-9"	3.22	15.43	18.65	15.03	19	2.65	4.0	7.83	14.58	21.33	28.08	1.42	1.85	3.30	4.73	6.17	41	48	56	63				
54'	7'-6"	3.39	17.49	20.88	17.03	21	2.83	4.0	8.42	16.08	23.75	31.42	1.46	2.14	3.95	5.77	7.58	44	52	61	69				
60'	8'-6"	3.56	19.55	23.11	19.03	23	3.00	4.0	9.00	17.50	26.00	34.50	1.50	2.45	4.66	6.87	9.07	47	56	66	75				
66'	9'-2"	3.73	21.62	25.35	21.03	25	3.18	4.0	9.58	18.75	27.92	37.08	1.54	2.88	5.54	8.18	10.84	49	59	69	80				
72'	10'-0"	3.91	23.68	27.59	23.03	27	3.39	4.0	10.16	20.16	30.16	40.16	1.58	3.54	6.61	9.87	13.13	52	63	74	85				



LAST REVISION	DESCRIPTION:	FY 2019-20 STANDARD PLANS	CROSS DRAIN MITERED END SECTION	INDEX	SHEET
11/01/17				430-021	1 of 6



LAST REVISION	DESCRIPTION:	FY 2019-20 STANDARD PLANS	DITCH BOTTOM INLET TYPES C, D, E AND H	INDEX	SHEET
11/01/17				425-052	3 of 7



CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL
PLANNING
TRANSPORTATION

NO.	DATE	BY	REVISIONS	COMMENTS
1	06-10-20	KR	REVISED PER CITY COMMENTS	DATED 07-26-2020
2	08-14-20	TR	REVISED PER ARCHITECT'S COMMENTS	RECEIVED 07-13-2020

SMCC PARKING LOT- PHASE 2
FINAL ENGINEERING PLANS
CONSTRUCTION DETAILS

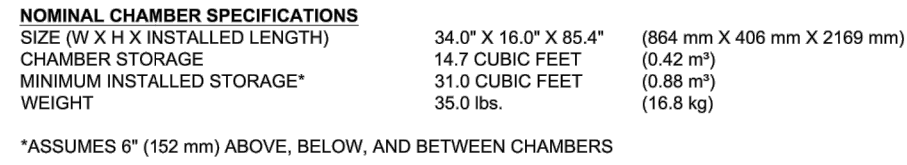
PROJECT NO. ZC 68003	DESIGNED BY: SHK
DRAFTED BY: SHK	CHECKED BY: KTR
DRAWING FILE: 06-10_68003DET_PH2	KREPS: 68003BAS_PHZ.DWG
KREPS: 68003SURV_PHZ.DWG	



STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT

- ## NOTES
1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
 2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

5	OF	6
 StormTech Stormwater Management Technology 10000 W. 110th Street, Suite 100 Overland Park, KS 66204 Phone: 913.888.1800 Fax: 913.888.1801 WWW.STORMTECH.COM		
4640 TRIUMPH BLVD HILLIARD, OH 43026		
SMWC PARKING LOT - PHASE 2		
FERNANDINA BEACH, FL		
DATE: 06-08-2020 DRAWN: DHC PROJECT #: S196832 CHECKED: WOM		
DATE: 06-08-2020 DATE: 06-08-2020 DRAWN: DHC DRAWN: DHC		
DESCRIPTION: THE PROJECT ENGINEER SHALL REVIEW THIS TO CONSTRUCTION. IF HE IS NOT		



PRE-FAB STUDS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B" PRE-FAB STUDS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T" PRE-CURED END CAPS END WITH "PC"				
PART #	STUB	A	B	C
SC310DE0E0T / SC310DE0E0PC	6" (150 mm)	9.6" (244 mm)	5.8" (147 mm)	—
SC310DE0E0B / SC310DE0E0PC	—	—	—	0.5" (13 mm)
SC310DE0E0B / SC310DE0E0PC	8" (200 mm)	11.9" (302 mm)	3.5" (89 mm)	—
SC310DE0E0B / SC310DE0E0B	—	—	—	0.6" (15 mm)
SC310DE0E0T / SC310DE0E0B	10" (250 mm)	12.7" (323 mm)	1.4" (36 mm)	—
SC310DE0E0B / SC310DE0E0BPC	—	—	—	0.7" (18 mm)
SC310DE0E0B / SC310DE0E0BPC	12" (300 mm)	13.5" (343 mm)	—	0.7" (23 mm)

* FOR THE SC310EPE12B THE 12" (300 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" (6 mm) BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL.

 HKS ARCHITECTS INCORPORATED 10000 WEST 16TH AVENUE SUITE 100 DENVER, CO 80202	 Stormtech 10000 WEST 16TH AVENUE SUITE 100 DENVER, CO 80202	4540 TREEMAN BLVD HILLIARD, OH 43026		SMCC PARKING LOT - PHASE 2 FERNANDINA BEACH, FL	
		DATE: 06-08-2020 DRAWN: DHC PROJECT # : S196632 CHECKED: WOM		DATE: 06-08-2020 DRAWN: DHC PROJECT # : S196632 CHECKED: WOM	

[illegible]

SMCC PARKING LOT- PHASE 2 FINAL ENGINEERING PLANS CONSTRUCTION DETAILS

CITY OF FERNANDINA BEACH
NASSAU COUNTY, FLORIDA

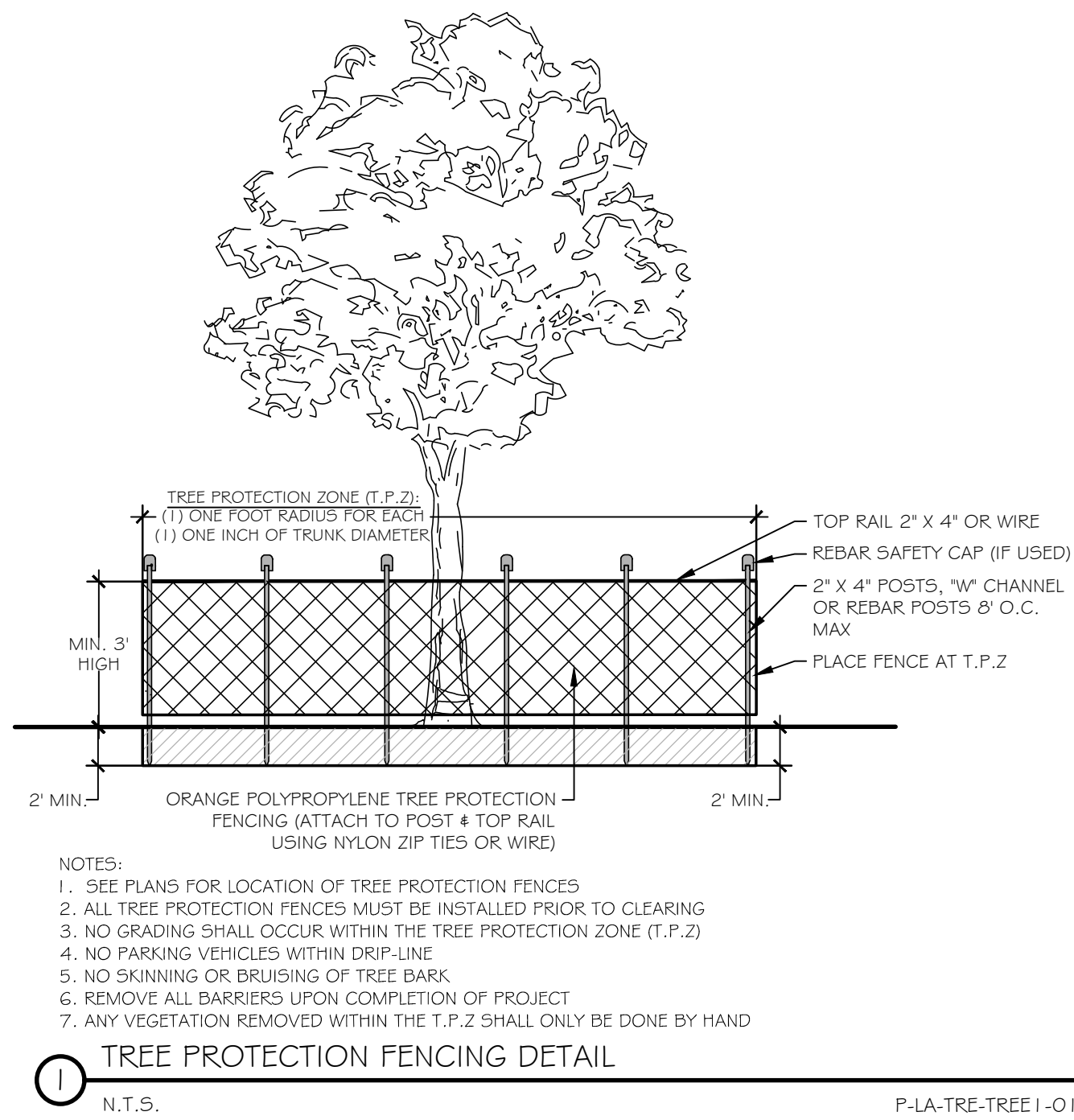
PROJECT NO: ZC 68003
DESIGNED BY: SHK
DRAFTED BY: SHK
CHECKED BY: KTR
DRAWING FILE: 06-10_68003DET_PH2 XREF'S: 68003BAS_PH2.DWG XREF'S: 68003SURV_PH2.DWG

Digitally signed by Randy Hudak
 DN: CN=Randy Hudak,
 OU=A01410D00000171609E622000001C05,
 O=Zev Cohen and Associates Inc, C=US
 Date: 2020.08.18 13:40:46-0400'

KRISTOPHER ROWLEY, P.E., NO.84263
NOT VALID WITHOUT SEAL

SHEET: C10 OF 10

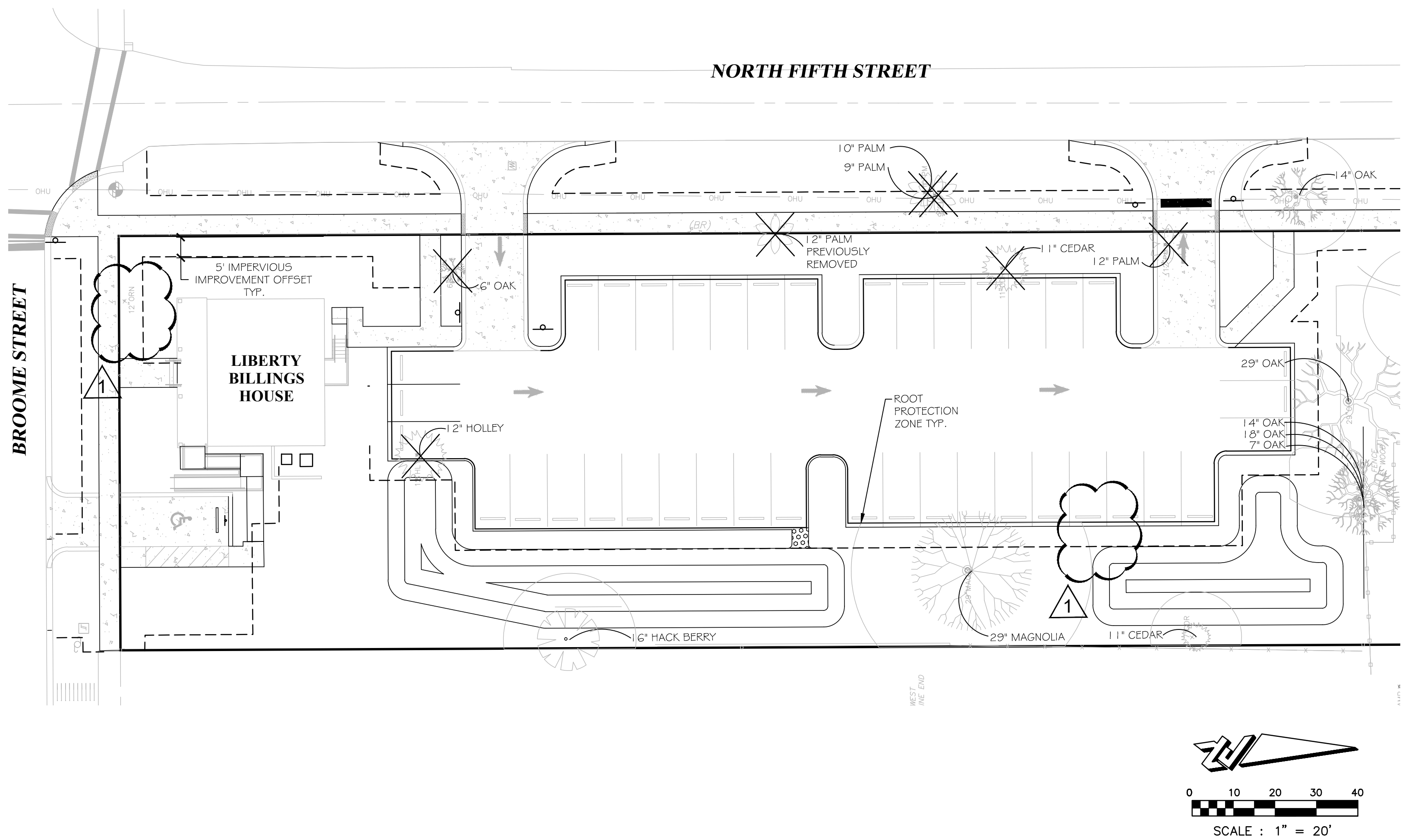
R:\68003 ST. MICHAEL PARISH OFFICE\FINAL ENGINEERING PLANS\68003TP PH2.DWG - PRINTED 8/17/2020 4:46 PM



MINIMUM ON SITE TREES	
TOTAL SITE ACREAGE	.69 AC.
TREES REQUIRED ON SITE: (CALCULATION: 30,056.4 AC. / 1,500 S.F. = 20)	20
EXISTING TREES TO BE PRESERVED	15
TREES PROVIDED ON LANDSCAPE PLAN	14
TOTAL NUMBER OF TREES PLANNED ON SITE	29

SMCC PARKING LOT IMPERVIOUS IMPROVEMENTS TREES REMOVED			
NUMBER	SPECIES	DIAMETER	
1	OAK	6	
1	HOLLY	12	
1	CEDAR	11	
TOTAL D.B.H.		29	
REQ. MITIGATION (25%)=		7.25	D.B.H.
SMCC PARKING LOT PROPOSED PLANTINGS			
NUMBER	SPECIES	D.B.H.	TOTAL D. B.H.
8	LIVE OAK	4	32
6	JAPANESE BLUEBERRY	2.5	15
TOTAL PLANTED D.B.H. PROVIDED		47	D.B.H.
TOTAL MITIGATION REQ.		7.25	D.B.H.
EXCESS D.B.H. PROVIDED		39.75	D.B.H.

- LEGEND
- EXISTING PALM TREE
 - EXISTING CEDAR/ HOLLY TREE
 - EXISTING MAGNOLIA TREE
 - EXISTING OAK TREE
 - EXISTING TREE, SEE PLAN FOR SPECIES
 - EXISTING TREE TO BE REMOVED
 - DENOTES ROOT ZONE PROTECTION AREA REQUIRED
 - DENOTES 5' OFFSET FROM IMPERVIOUS IMPROVEMENTS



CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL
PLANNING
TRANSPORTATION

NO. DATE BY SUBMITTALS/ REVISIONS
1 7/23/21 JES REVISED PER ARCHITECTS COMMENTS DATED 07-28-2020

SMCC PARKING LOT- PHASE 2
FINAL ENGINEERING PLANS
TREE PROTECTION PLAN

NASSAU COUNTY, FLORIDA
CITY OF FERNANDINA BEACH

PROJECT NO.: ZC 68003
DESIGNED BY: JES
DRAFTED BY: JES
CHECKED BY: SMG
DRAWING FILE: 68003TP_PH2
XREF'S: 68003BAS.DWG
XREF'S: 68003SURV_PH2.DWG

Jake E Stehr
Digitally signed by Jake E Stehr
Date: 2020.08.18 13:31:08 -04'00'

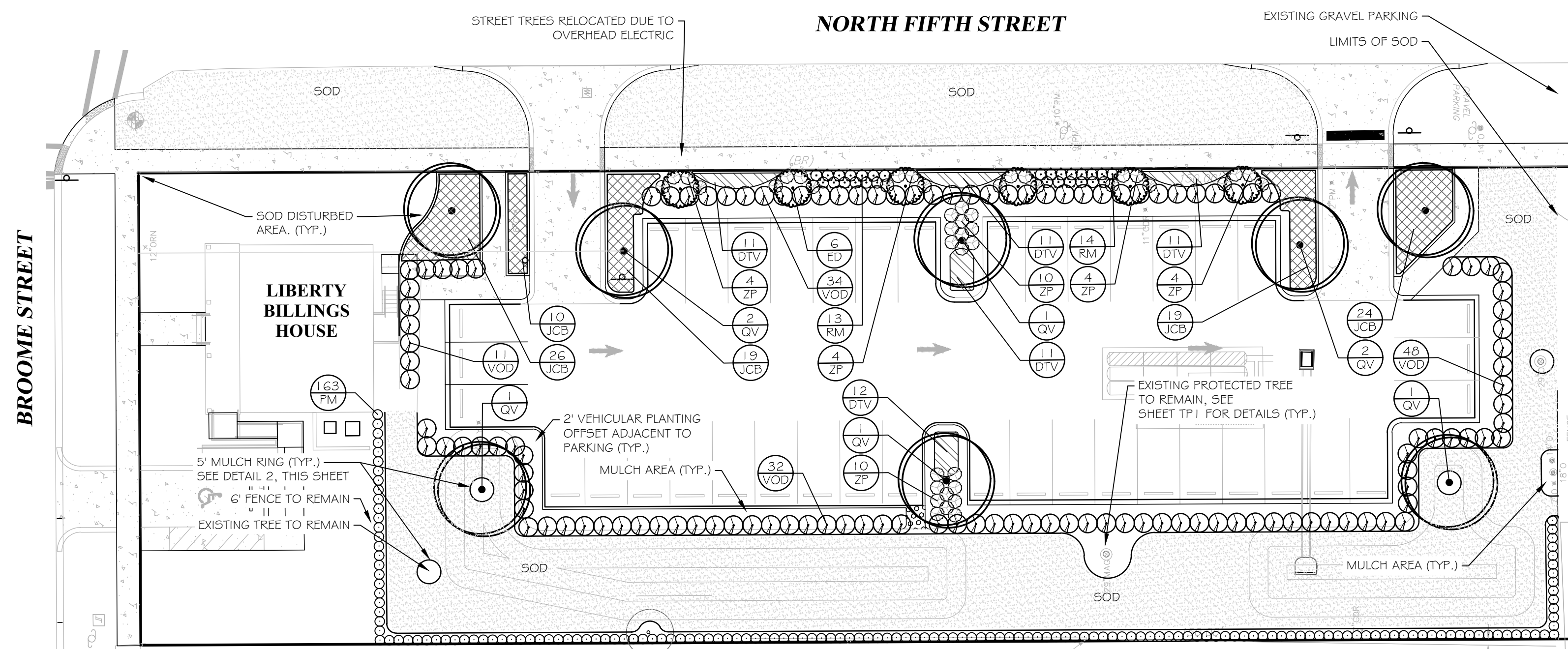
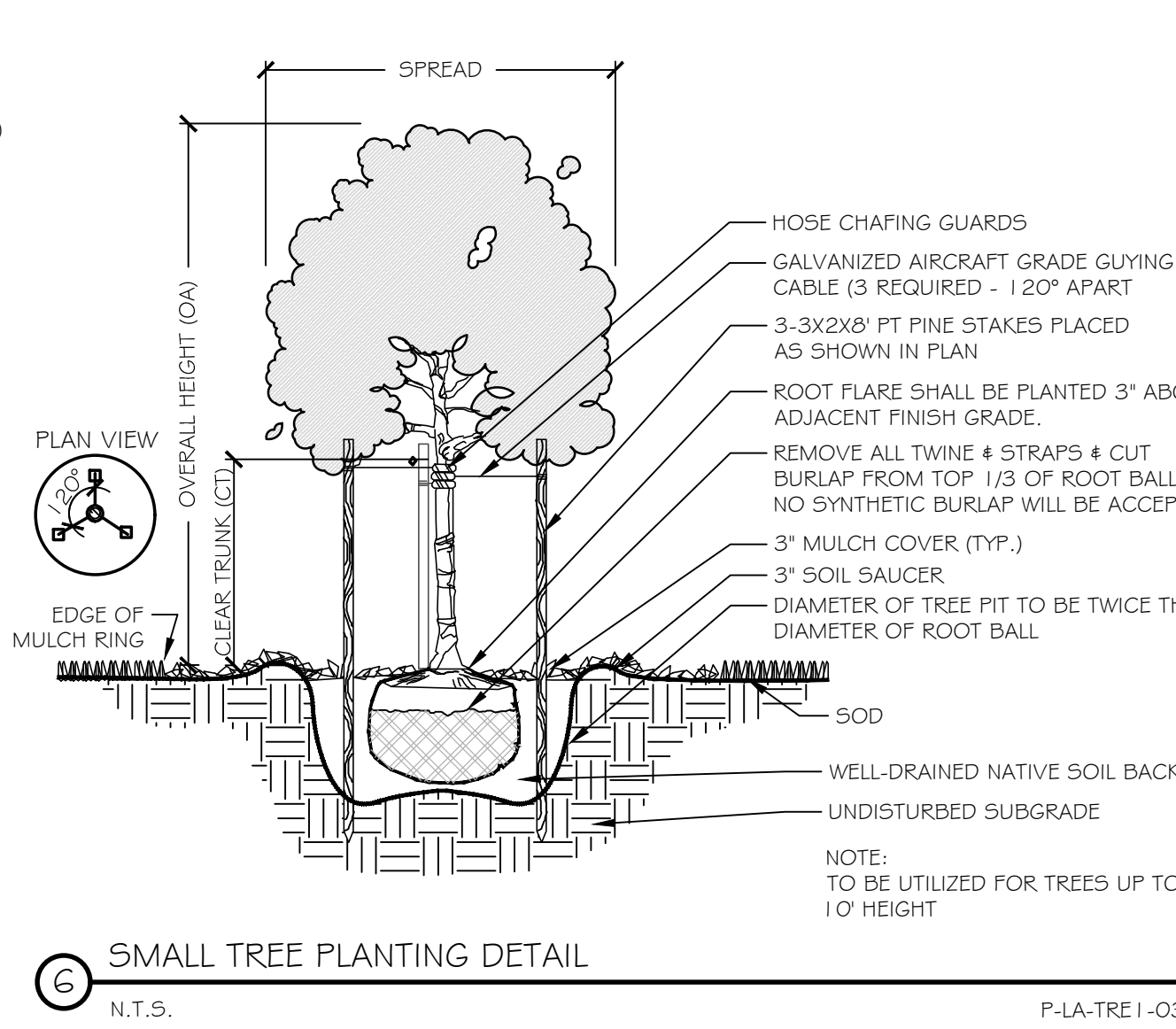
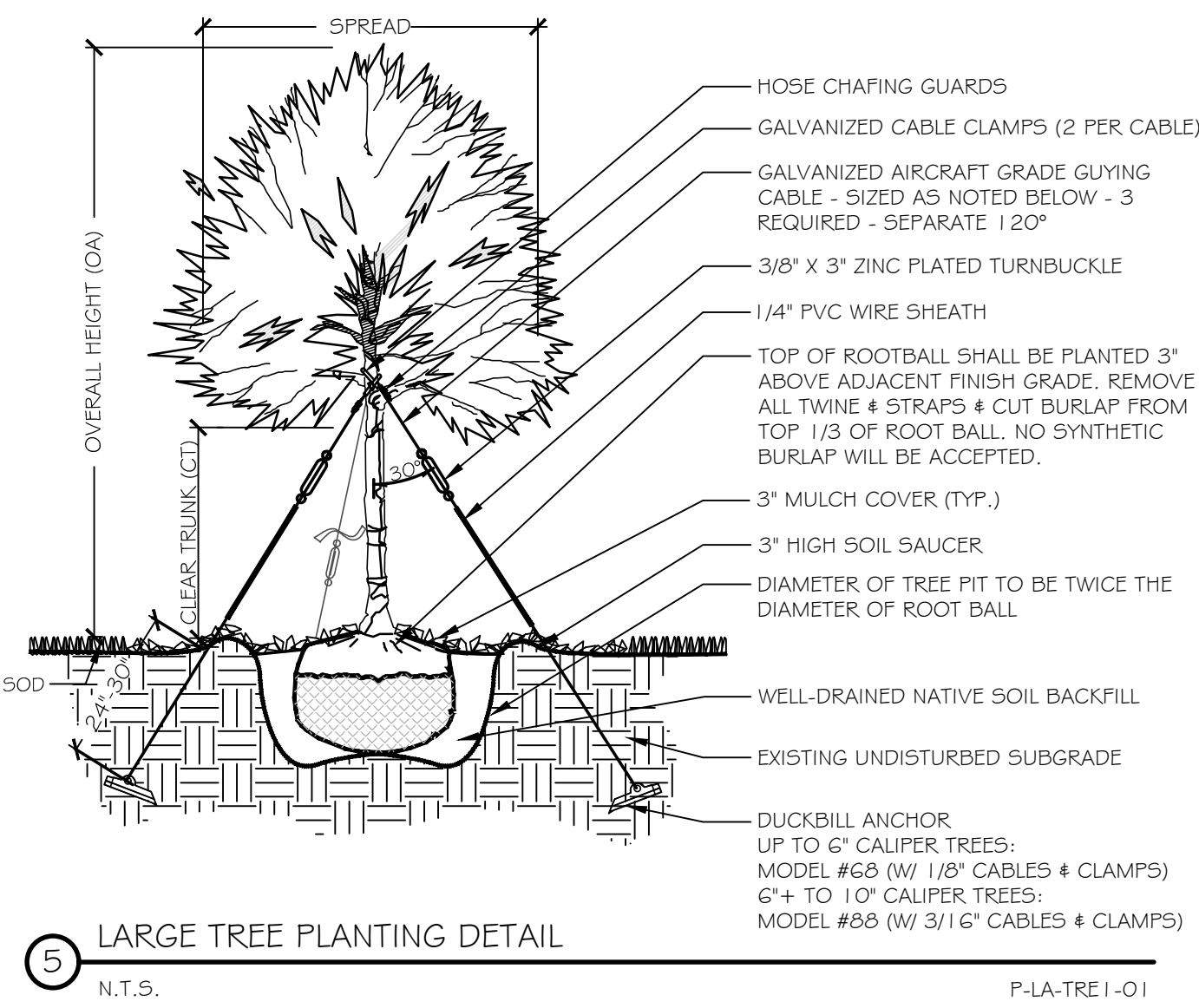
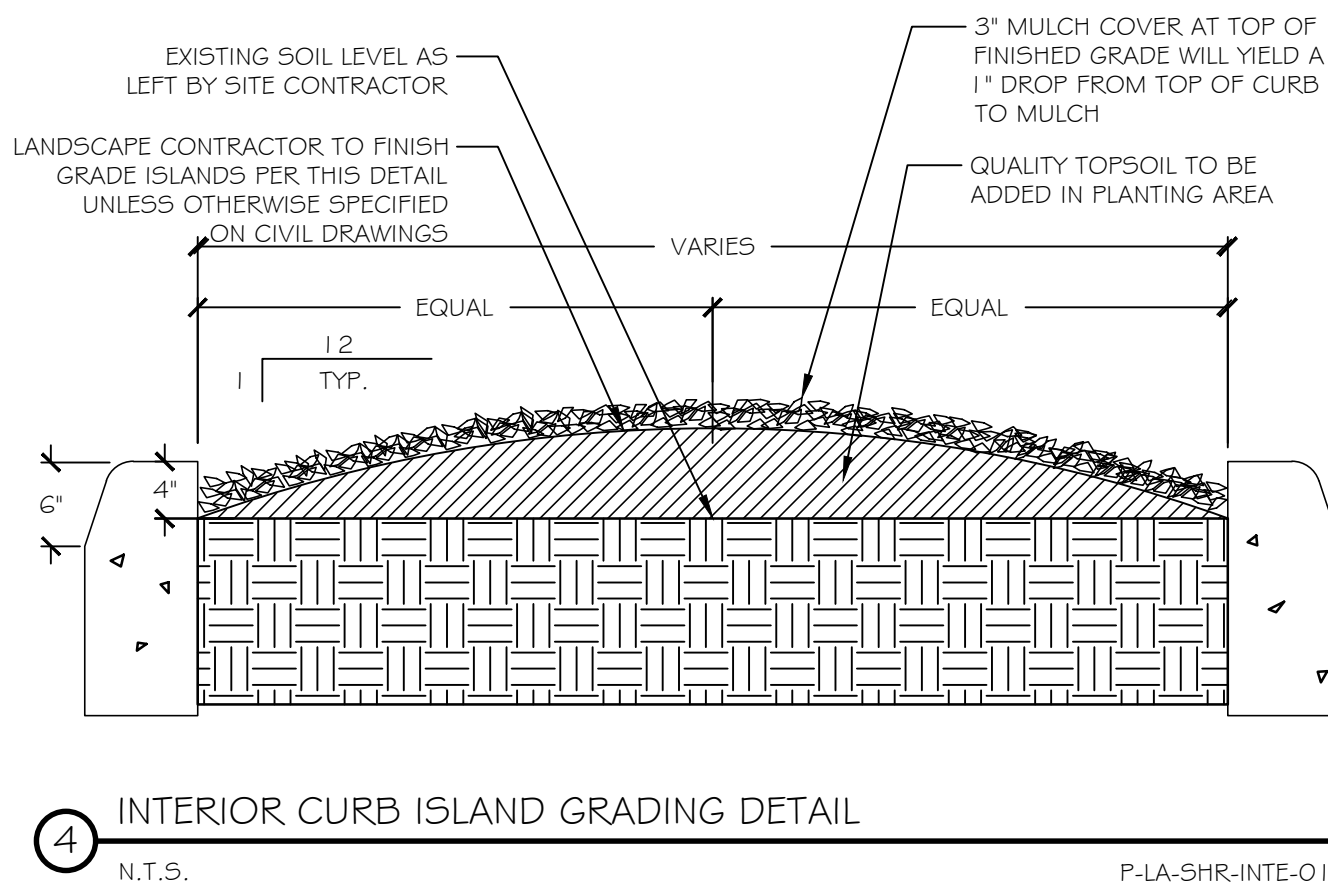
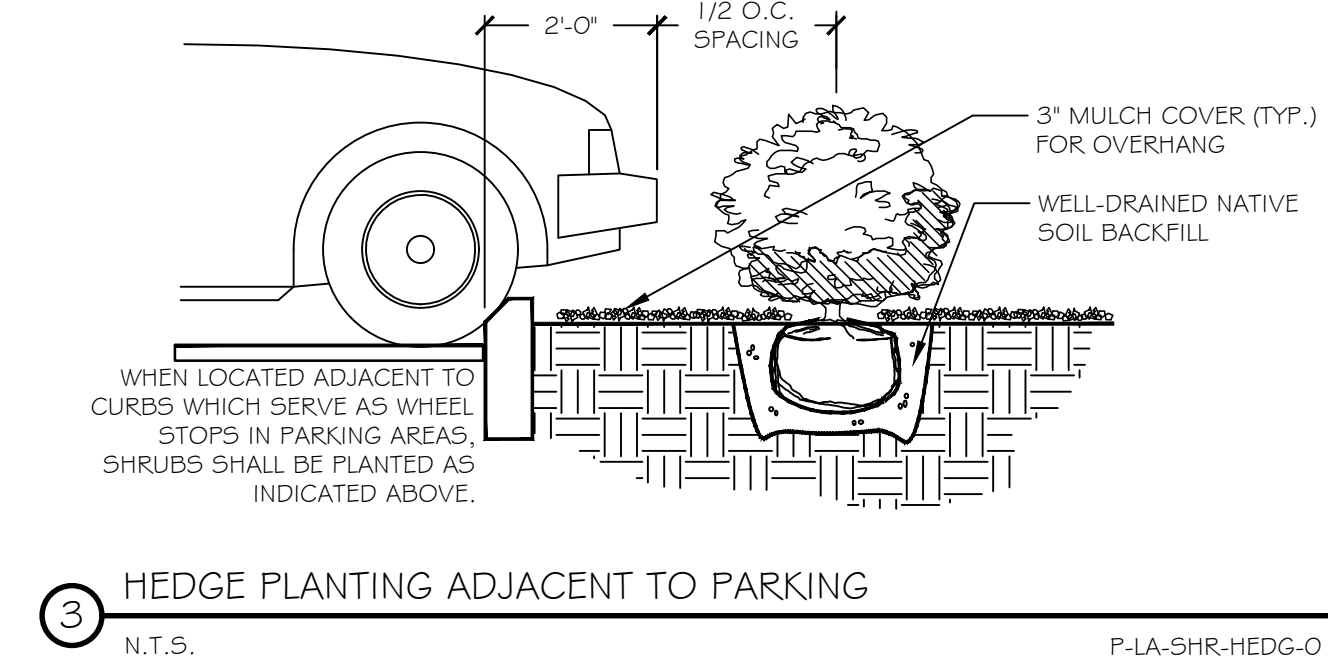
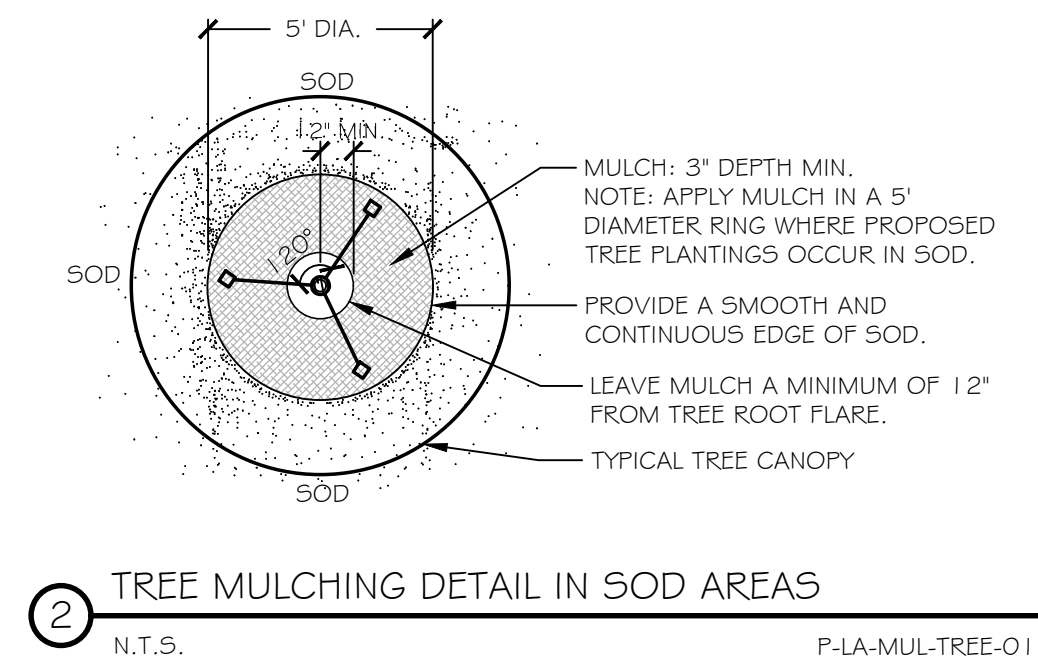
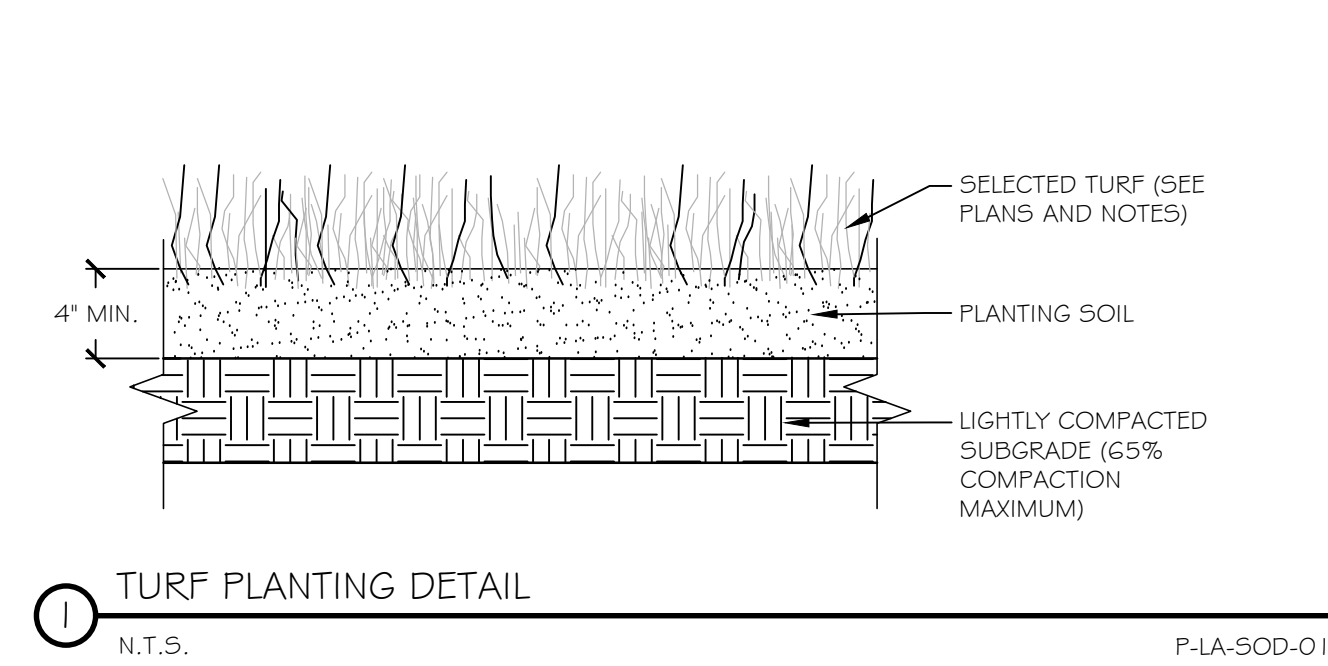
JAKE E. STEHR, P.E., L.A. 14667462
NOT VALID WITHOUT SEAL
SHEET: TP1 OF 1

LANDSCAPE SPECIFICATIONS

1. FLORIDA #1: ALL PLANT MATERIAL SHALL BE GRADE FLORIDA NO. 1 OR BETTER IN QUALITY AS DESIGNATED IN THE MOST RECENT PUBLICATION OF 'GRADES AND STANDARDS FOR NURSERY PLANTS', PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.
2. EXISTING PLANTS: IF EXISTING LANDSCAPING INTERFERES WITH PROPOSED PLANTINGS SHOWN ON PLAN, THE EXISTING LANDSCAPING IS TO BE REMOVED IN FAVOR OF THE NEW PLANTINGS, UNLESS OTHERWISE INDICATED. IF THE EXISTING VEGETATION IS INTENDED TO REMAIN, THE PROPOSED LANDSCAPING SHALL BE LOCATED AS CLOSE AS POSSIBLE TO ITS INTENDED LOCATION.
3. MULCH: ALL PLANTING BEDS SHALL BE TOP DRESSED WITH 3" PINE BARK MULCH, GRADE 'B' OR APPROVED EQUAL. ALL TREES NOT IN BEDS SHALL HAVE A 5' DIAMETER MULCH RING. ALL PALMS NOT IN BEDS SHALL HAVE A 3' DIAMETER MULCH RING UNLESS OTHERWISE NOTED ON PLANS.
4. SOD: SOD SHALL BE ARGENTINE BAHIA SOD UNLESS OTHERWISE SPECIFIED ON THE PLANS AS FLORATAM ST. AUGUSTINE SOD. ALL SOD SHALL BE ROLLED UPON INSTALLATION. CONTRACTOR TO SOD ALL AREAS THAT ARE DISTURBED BY CONSTRUCTION RELATED ACTIVITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE SOD IS FREE OF WEEDS & INSECTS UPON INSTALLATION AND FOR THE DURATION OF THE 90 DAY MAINTENANCE PERIOD. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE NO GAPS BETWEEN SOD. SOD QUANTITY TAKEOFFS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
5. QUANTITIES: IN THE EVENT OF A VARIATION BETWEEN THE QUANTITIES SHOWN ON THE PLANT LIST AND THE QUANTITIES OF PLANTS SHOWN ON THE PLAN, THE PLAN SHALL CONTROL.
6. UNFORESEEN CONFLICTS: CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY PORTION OF THE LANDSCAPE PLAN AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNFORESEEN OBSTRUCTIONS, GRADE DIFFERENCES, STANDING WATER, SOIL CONDITIONS OR OTHER CONFLICTS EXIST. SUCH UNFORESEEN CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
7. SUBSTITUTIONS: NO SUBSTITUTIONS OR VARIATIONS OF ANY PLANT MATERIAL OR ITS INSTALLED LOCATION SHALL BE PERMITTED WITHOUT THE PRIOR CONSENT OF THE LANDSCAPE ARCHITECT.
8. CONTAINERS: IF GALLONAGE FOR PLANTS OR TREES IS SHOWN THEY SHALL BE CONTAINER GROWN AND THE SIZE SHOWN SHALL REPRESENT THE MINIMUM ALLOWABLE GALLONAGE. IN ALL CASES THE PLANT SPECIFIED SIZE SHALL GOVERN OVER THE GALLONAGE INDICATED.
9. PLANTING SOIL: CONTRACTOR SHALL VERIFY THAT SOIL CONDITIONS ARE SUITABLE TO THE PLANT SPECIES SPECIFIED. IF SOIL CONDITIONS ARE DEEMED UNSUITABLE FOR PROPER PLANT HEALTH, CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT AND PROPER SUBSTITUTIONS SHALL BE SPECIFIED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. THE CONTRACTOR SHALL REMOVE LIME ROCK, CONCRETE AND OTHER DELETERIOUS DEBRIS FROM PLANTING BEDS. IF DEBRIS IS INTEGRATED IN THE SOIL, THE SOIL MUST BE EXCAVATED AND REPLACED WITH ACCEPTABLE SOIL. ALL FILL TO BE PLACED IN LANDSCAPE AREAS MUST HAVE A pH RANGE BETWEEN 5.8 AND 7.5, BE ORGANIC IN NATURE, AND BE FREE OF ROCKS AND DEBRIS.
10. TOPSOIL: TOPSOIL MATERIAL SHALL BE FREE FROM ALL HARD CLODS, WEEDS, STONES OVER 1" IN DIAMETER, CLAY, HARD PAN, NOXIOUS OR OTHER UNDESIRABLE PLANTS, SOD, INSECTS, SEEDS, OR MATERIAL WHICH MAY BE HARMFUL FOR GROWTH.
11. WEEDS: IF PRESENT, THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ANY WEEDS FROM PLANTING AND SOD AREAS PRIOR TO THE INSTALLATION OF PROPOSED PLANT MATERIAL AND MULCH COVER. CONTRACTOR SHALL BE RESPONSIBLE TO KEEP BEDS AND SOD FREE OF WEEDS FOR THE DURATION OF THE 90 DAY MAINTENANCE PERIOD.
12. GRADING: UNLESS OTHERWISE STATED ON THESE PLANS, THE LANDSCAPE CONTRACTOR SHALL FINE GRADE ALL AREAS TO BE PLANTED AND SOD IN ORDER TO ELIMINATE BUMPS AND DEPRESSIONS. FINE GRADING SHALL BE DEFINED AS THE FINAL 2" OF GRADE TO BE ACHIEVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND RE-GRADING WASHOUT AREAS CAUSED BY EROSION UNTIL FINAL ACCEPTANCE OF THE PROJECT.
13. STAKING: ALL TREES AND PALMS ARE TO BE STAKED ACCORDING TO THE DETAILS IN THESE PLANS. IF THE CONTRACTOR PREFERENCES TO USE OTHER STAKING METHODS THAN SHOWN IN THE DETAILS, HE OR SHE MUST SUBMIT PROPOSED STAKING DETAILS TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION. THE LANDSCAPE CONTRACTOR SHALL STRAIGHTEN, REPAIR, AND/OR REPLACE ANY PLANTS DAMAGED BY FAILURE TO PROPERLY STAKE OR GUY ANY TREES & PALMS ON SITE, AT THEIR OWN EXPENSE.
14. BED LINES: CONTRACTOR TO ENSURE CURVILINEAR LANDSCAPE BEDS ARE TO BE EDGED WITH SMOOTH FLOWING CURVES. STRAIGHT-LINE LANDSCAPE BEDS ARE TO BE EDGED IN A STRAIGHT LINE PARALLEL TO ADJACENT STRUCTURES UNLESS DESIGNED OTHERWISE.
15. FERTILIZER: OSMOCOTE SLOW RELEASE FERTILIZER OR EQUIVALENT SHALL BE APPLIED TO ALL TREE, SHRUB, AND GROUNDCOVER PLANTING AREAS AT THE RATE OF THREE (3) TABLESPOONS PER 2 S.F. OF PLANTING AREA.
16. DRAINAGE: THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT THIS WORK DOES NOT INTERRUPT EXISTING OR PROPOSED DRAINAGE PATTERNS AND SHALL NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHALL A CONFLICT ARISE. CONTRACTOR IS RESPONSIBLE FOR ALL LANDSCAPE/SOD AREAS TO PROPERLY DRAIN AWAY FROM BUILDINGS/STRUCTURES.
17. SPECIFICATIONS: THE LANDSCAPE ARCHITECT SHALL BE PERMITTED THE RIGHT DURING INSTALLATION, TO REJECT ANY AND ALL PLANT MATERIAL AND WORKMANSHIP WHICH IN HIS OR HER OPINION DOES NOT MEET THE REQUIREMENTS OF THESE SPECIFICATIONS.
18. WILDLIFE NOTIFICATION: THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT WHO SHALL PROPOSE PLANT SUBSTITUTIONS UPON WRITTEN NOTIFICATION OF NUISANCE ANIMAL EXISTENCE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE ANY/ALL INSTALLED PLANT MATERIAL DESTROYED/DAMAGED BY WILDLIFE WITHIN THE MAINTENANCE PERIOD.
19. TURNOVER: CONTRACTOR SHALL CONTACT OWNERS REPRESENTATIVE FOR A TURNOVER DATE TO INCLUDE A WALK-THROUGH AND ACCEPTANCE OF WORK BY THE LANDSCAPE ARCHITECT OR OWNER. ANY WORK DEEMED UNACCEPTABLE SHALL BE CORRECTED IMMEDIATELY AND RE-INSPECTED AS SCHEDULED.
20. MAINTENANCE: CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE TO BEGIN AFTER EACH PLANT HAS BEEN INSTALLED AND SHALL CONTINUE 90 DAYS AFTER FINAL WRITTEN ACCEPTANCE BY THE OWNER. MAINTENANCE SHALL INCLUDE WATERING, PRUNING, WEEDING, MULCHING, MOWING, REPLACEMENT OF SICK OR DEAD PLANTS, AND ANY OTHER CARE NECESSARY IN ORDER TO MAINTAIN PROPER PLANT HEALTH AND SOIL MOISTURE CONTENT.
21. GARANTEE: CONTRACTOR SHALL GUARANTEE AND REPLACE ALL INSTALLED PLANT MATERIAL FOR ONE (1) CALENDAR YEAR STARTING FROM THE TURNOVER DATE FOR WORK FOUND ACCEPTABLE. ANY CORRECTED WORK SHALL HAVE A PROPORTIONAL EXTENSION OF WARRANTY ONCE APPROVED. ANY SICK OR DEAD MATERIAL SHALL BE REPLACED IMMEDIATELY; THE LANDSCAPE CONTRACTOR SHALL NOT BE RESPONSIBLE TO HONOR ANY WARRANTY FOR THE LOSS OF ANY PLANT MATERIAL CAUSED BY FLOODING, FIRE, ABNORMAL FREEZING TEMPERATURES, WINDS OVER 50 MPH, LIGHTNING, ANY OTHER NATURAL DISASTER, OR ANY LOSS/DAMAGE CAUSED BY VANDALISM OR NEGLIGENCE ON THE PART OF THE OWNER.
22. CALL BEFORE YOU DIG: CONTRACTOR SHALL NOTIFY SUNSHINE 811 AND HAVE UTILITIES LOCATED, PRIOR TO DIGGING, BY CALLING 811. CONTRACTOR SHALL NOT PLANT TREES WITHIN 3' OF AN UNDERGROUND UTILITY, EITHER AS LOCATED OR AS SHOWN ON THE PLAN, WITHOUT FIRST OBTAINING WRITTEN PERMISSION FROM OWNER'S REPRESENTATIVE.
23. RECORD DRAWINGS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT 'REDLINED' MARK-UPS OF THE LANDSCAPE AND IRRIGATION IMPROVEMENTS. THESE AS-BUILT 'REDLINES' SHALL BE REPRESENTED ON ZEV COHEN & ASSOCIATES, INC. PLAN SHEETS AND PROVIDED TO THE LANDSCAPE ARCHITECT.
20. CLEARANCE PRUNING: ANY TREE PRUNING OF LOWER LIMBS AND CANOPY OF CONSERVED AND PROTECTED TREES THAT ARE GROWING OVER SIDEWALK, ROADWAY AND/OR ON-SITE CONSTRUCTION ACTIVITIES SHALL BE OVERSEEN AND/OR CONDUCTED BY AN I.S.A CERTIFIED ARBORIST TO ENSURE PROPER REDUCTION CUTS AND PRUNING IS CONDUCTED TO MAINTAIN THE STRUCTURAL INTEGRITY AND HEALTH OF THE TREE. TREES SHALL BE PRUNED TO ADHERE TO A MINIMUM OF EIGHT FEET (8') CLEARANCE OVER SIDEWALKS (PEDESTRIAN ACTIVITIES) AND SIXTEEN FEET (16') CLEARANCE OVER PARKING AREAS/ROADWAYS.

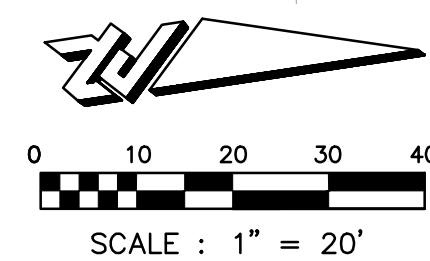
IRRIGATION NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING 'REDLINED' MARK-UPS OF THE IRRIGATION IMPROVEMENTS AND PROVIDE TO THE LANDSCAPE ARCHITECT.
2. AN AUTOMATIC TIME CONTROLLED IRRIGATION SYSTEM WITH A RAIN SENSOR SHALL BE INSTALLED TO PROVIDE 100% HEAD TO HEAD COVERAGE OF ALL NEW PLANTINGS. IRRIGATION PLAN SHALL BE PROVIDED UPON SUBSTANTIAL SITE PLAN APPROVAL.



PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	REMARKS
ED	6	FLAXCARPUS DECIPENS TM	JAPANESE BLUEBERRY TREE	2 1/2" CAL., 8" HT., MIN.		
QV	8	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	3" D.B.H MIN., 10' HT.		CLEAR TRUNK
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING
PM	163	PODOCARPUS MACROPHYLLUS	YEW	36" HT. X 1 1/8" SP.	5 GAL.	24" o.c.
RM	27	ROSA X 'MEIGALPIO'	RED DRIFT ROSE	1 1/8" HT. X 24-36" SP.	3 GAL.	30" o.c.
VOD	125	VIBURNUM OBOVATUM 'DENSE'	DWARF WALTERS VIBURNUM	24" HT. X 24" SP.	7 GAL.	48" o.c.
ZP	44	ZAMIA PUMILA (ZAMIA FLORIDANA)	COONTIE	15" HT. X 1 1/8" SP.	3 GAL.	36" o.c.
SHRUB AREAS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING
JCB	98	JUNIPERUS CONFERTA 'BLUE PACIFIC'	BLUE PACIFIC SHORE JUNIPER	4" HT. X 12" SP.	3 GAL.	36" o.c.
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING
DTV	34	DIANELLA TASMANICA 'VARIEGATA'	FLAX LILY	12" HT. X 12" SP.	1 GAL.	24" o.c.
SOD	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING
PNA	2,429 SF	PASPALUM NOTATUM 'ARGENTINE'	BAHIA GRASS			



MINIMUM ON SITE TREES

TOTAL SITE ACREAGE	.69 AC.
TREES REQUIRED ON SITE: (CALCULATION: 30,056.4 AC. / 1,500 S.F. = 20)	20
EXISTING TREES TO BE PRESERVED	15
TREES PROVIDED ON LANDSCAPE PLAN	14
TOTAL NUMBER OF TREES PLANNED ON SITE	29



CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL
PLANNING
TRANSPORTATION

FOR REVIEW ONLY NOT FOR CONSTRUCTION

SMCC PARKING LOT-PHASE 2
FINAL ENGINEERING PLANS
LANDSCAPE PLAN & DETAILS

PROJECT NO.: ZC 68003
DESIGNED BY: JES
DRAFTED BY: JES
CHECKED BY: SRB
DRAWING FILE: 68003LA_PH2
XREF'S: 68003BAS.DWG
XREF'S: 68003SURV_PH2.DWG
Digitally signed by Jake E Stehr
Date: 2020.08.18 13:31:29 -04'00'
JAKE STEHR, LA, NO 6867462
NOT VALID WITHOUT SEAL
SHEET: LA1 OF 7



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www.robertscivilengineering.com

August 4, 2020

City of Fernandina
204 Ash Street
Fernandina Beach, FL 32034

Dear Jacob Platt:

Re: Paxton Automotive
City of Fernandina Review SPR 2020-06

The following comment responses describe the revisions to Paxton Automotive site construction plans as requested by City of Fernandina. Please forward one copy of this letter as well as one copy of the plans to each of the reviewers.

Sincerely,

Jonathan McDill

Jonathan McDill
Project Manager

JM/cc

Comments & Responses for Paxton Automotive

Planning

1. Please provide a landscape, irrigation, or tree protection plan/mitigation plan according to 4.05.00

Response: See updated Tree Protection plan.

2. Provide the number of trees to be retained / removed.

Response: See updated notes on Tree Protection plan. Total number of trees to be removed is 15. Total number of trees to be retained is 67.

3. 17 existing parking spaces need to be shown on the plan, specifically the handicap space and isle location.

Response: See updated staking plan that reflects the approximate location of existing parking stalls.

Utilities/Water

4. Water service to be installed by the City of Fernandina after application fees have been paid.

Response: Acknowledged, thank you.

5. Water service off main to be 1.5" SCH 80 PVC feeding 1" meter.

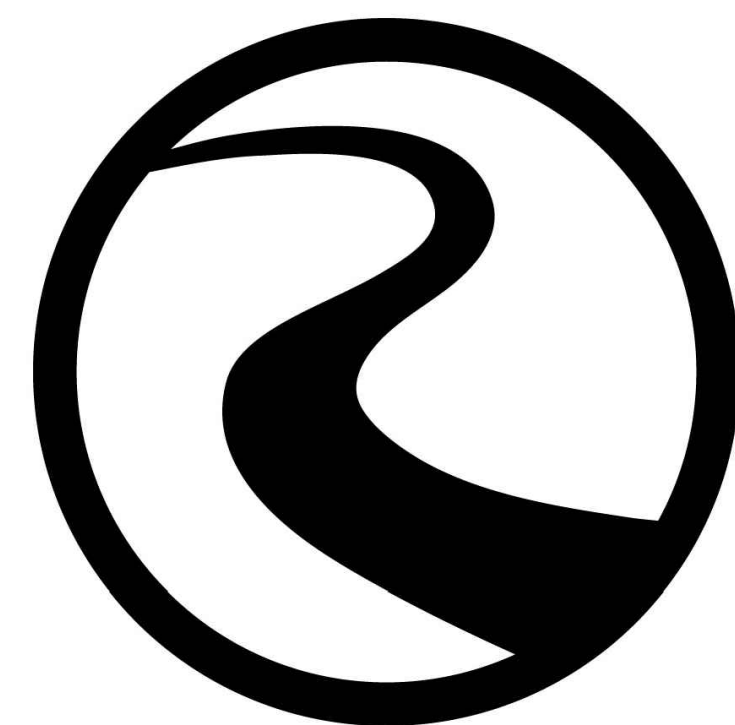
Response: See updated on utility sheet.

6. Backflow preventer needs to be Reduce Pressure Zone (RPZ) not double check located at the water meter site.

Response: See updated on utility sheet.

SITE CONSTRUCTION PLANS PAXTON AUTOMOTIVE MARKETING

PREPARED FOR:
PARKER CONTRACTING, INC.
1035 ISLE OF PALMS LN.
FERNANDINA BEACH, FLORIDA 32034

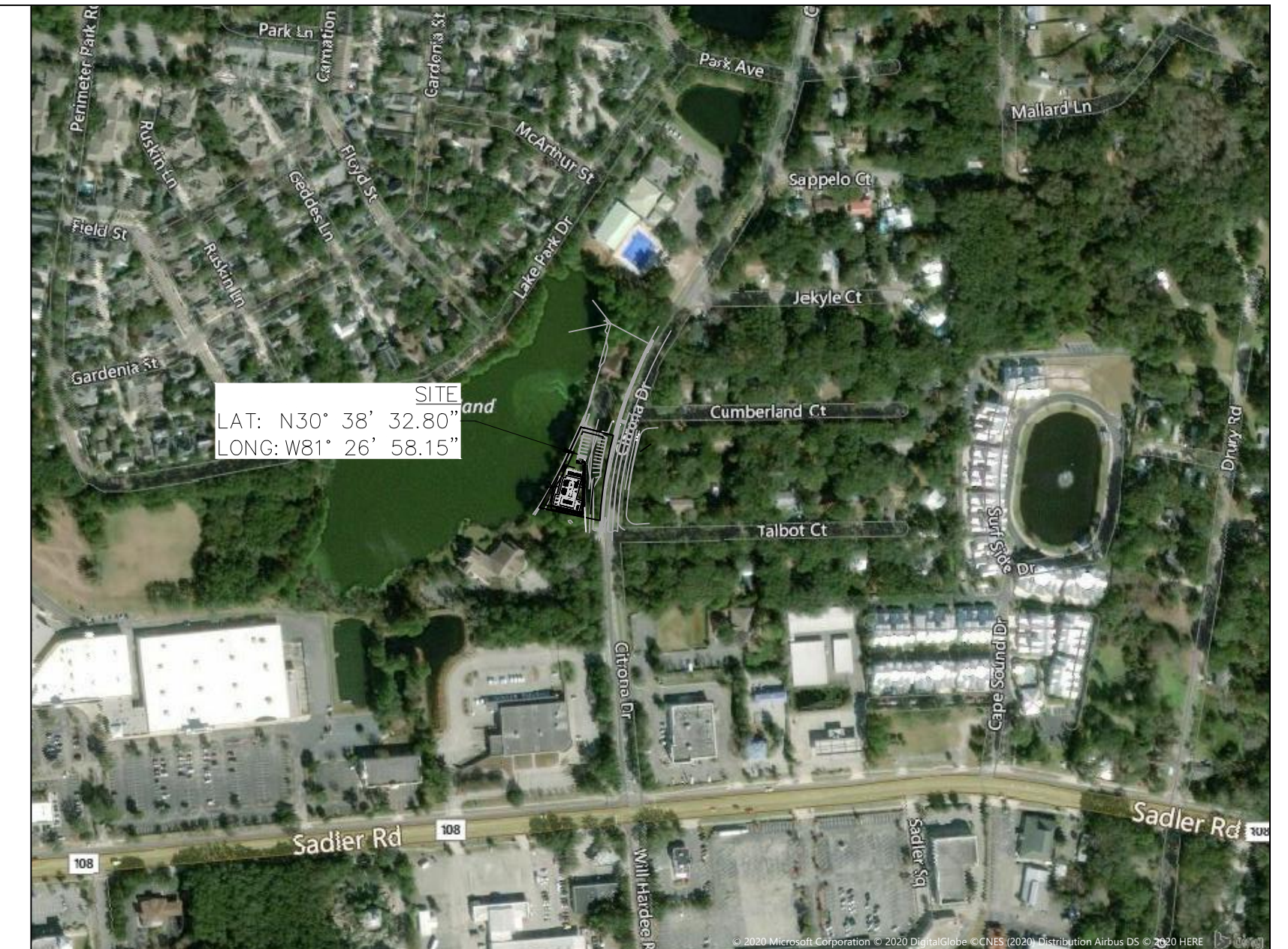
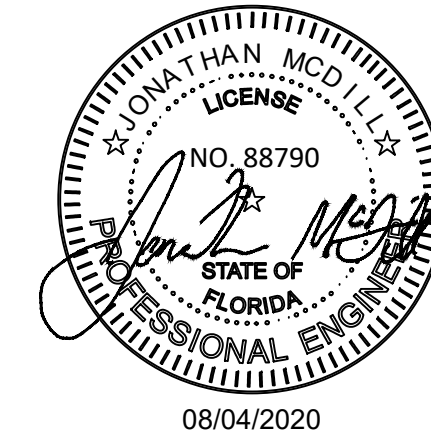


ROBERTS
CIVIL ENGINEERING
WWW.ROBERTSCIVILENGINEERING.COM

301 SEA ISLAND ROAD, SUITE 10
ST. SIMONS ISLAND, GA 31522
912-638-9681

6001 CHATHAM CENTER DRIVE, SUITE 255
SAVANNAH, GA 31405
912-298-7006

14600 WHIRLWIND AVENUE, SUITE 119A
JACKSONVILLE, FL 32218
904-741-0099 (Office)



VICINITY MAP		NTS
FERNANDINA BEACH, FLORIDA		
PAXTON AUTOMOTIVE MARKETING		
OWNER PARKER CONTRACTING, INC. CONTACT ASHLEY MCGUFFEE EMAIL PARKERCONTRACTINGINC@GMAIL.COM		ENGINEER ROBERTS CIVIL ENGINEERING CONTACT JONATHAN MCDILL, P.E. EMAIL JMCDILL@ROBERTSCIVILENGINEERING.COM
#	REVISIONS	
1	2020-08-04: REVISIONS PER CITY COMMENTS	
2		
3		
4		
5		
ORIGINAL ISSUE DATE: 06/12/20		RCE PROJECT NUMBER: 20800
CONTENTS		
SHEET		DATE
1	COVER	08/04/20
2	GENERAL NOTES	08/04/20
3	EXISTING CONDITIONS & DEMOLITION PLAN	08/04/20
3A	TREE PROTECTION PLAN	08/04/20
4	STAKING PLAN	06/12/20
5	GRADING & DRAINAGE PLAN	08/04/20
6	UTILITY PLAN	08/04/20
7	CONSTRUCTION DETAILS	08/04/20
COVER		



GENERAL NOTES

1. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS.
2. ALL PERMITS NECESSARY FOR CONSTRUCTION SHALL BE OBTAINED BY CONTRACTOR.
3. ANY DEVIATIONS FROM THE PLANS ARE PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.
4. THE CONTRACTOR IS TO IMMEDIATELY CONTACT THE ENGINEER IF ANY UNFORESEEN COMPLICATIONS OR DISCREPANCIES OCCUR.
5. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION OF ALL UTILITIES ON SITE WITH THE APPROPRIATE PROVIDER (e.g. POWER, PHONE, CABLE, ETC.)
6. THE ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR THE PHYSICAL CONSTRUCTION OF THE SITE.
7. CONTRACTOR SHALL MAINTAIN A SAFE SITE AND MEET ALL APPROPRIATE REGULATIONS CONCERNING SAFETY.
8. SURVEY DATA PROVIDED BY MANZIE & DRAKE LAND SURVEYING .
117 SOUTH NINTH STREET
FERNANDINA BEACH, FL 32034
904-491-5700
9. EXISTING SURVEY INFORMATION TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES IN FIELD OBSERVATIONS VERSUS SURVEY DATA.
10. CONTRACTOR TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION BY CALLING THE CALL BEFORE YOU DIG HOTLINE: 811.
11. ACCORDING TO FEMA FLOOD INSURANCE RATEMAPS 12089C 0239 G DATED 08/02/2017 THE SITE IS LOCATED IN THE 100 YEAR FLOODPLAIN IN ZONE X.

ADA NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL CURRENT ADA REQUIREMENTS.
2. THE EXTERIOR ACCESSIBLE ROUTE SHALL HAVE A MINIMUM WIDTH OF 3 FEET. IF THE ACCESSIBLE ROUTE CLEAR WIDTH IS LESS THAN 5 FEET, THEN 5'X5' PASSING SPACES SHALL BE PROVIDED EVERY 200' OR LESS. INTERSECTING SIDEWALKS MEET THIS REQUIREMENT.
3. THE FINISHED SURFACE HEIGHT DIFFERENCE REQUIREMENTS SHALL MEET THE FOLLOWING:
0 - ¼" NO REQUIREMENTS
¼"- ½" BEVEL WITH 1:2 SLOPE
GREATER THAN ½" CONFORM TO RAMP REQUIREMENTS
4. RAMPS SHALL MEET THE FOLLOWING CONSTRAINTS:
MAX SLOPE 1:12
MAX RAMP RISE IS 30"
MAX RAMP LENGTH IS 30'
MAX CROSS SLOPE IS 2.00%
5. RAMP LANDINGS SHALL MEET THE FOLLOWING CONSTRAINTS:
A MINIMUM 5' LONG LEVEL LANDING AT LEAST AS WIDE AS THE RAMP SHALL BE PLACED AT THE TOP AND BOTTOM OF THE RAMP.
LANDING SHALL BE MINIMUM 5'X5' WHERE RAMP CHANGES DIRECTION.
LANDINGS SHALL NOT EXCEED A 2.00% SLOPE
6. HANDRAILS SHALL MEET THE FOLLOWING CONSTRAINTS:
IF RAMP RISE IS GREATER THAN 6", THEN HANDRAILS ARE REQUIRED ON BOTH SIDES OF RAMP. MINIMUM OF 12" LONG HANDRAIL EXTENSIONS SHALL BE PROVIDED AT THE TOP AND BOTTOM OF LANDINGS.

EARTHWORK AND PAVING

1. CONTRACTOR TO REMOVE ALL UNSUITABLE MATERIAL BENEATH PROPOSED PAVEMENT AND BUILDINGS TO A DEPTH OF 3 FEET AND REPLACE WITH SUITABLE FILL. THIS ONLY APPLIES TO AREAS WHERE UNSUITABLE MATERIAL IS PRESENT.
2. THE UPPER 12 INCHES OF SUBGRADE BELOW THE PAVEMENT AND BUILDINGS SHALL BE SCARIFIED AND RECOMPACTED TO 100% STANDARD PROCTOR MAX DRY WEIGHT DENSITY WITH A MOISTURE CONTENT WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT.
3. IN AREAS WHERE STRUCTURAL FILL IS REQUIRED, THE FILL SHALL BE PLACED IN LIFTS OF 6 INCHES AND COMPACTED TO 100% STANDARD PROCTOR MAX DRY WEIGHT DENSITY. STRUCTURAL FILL SHALL CONSIST OF GRANULAR SOIL CONTAINING LESS THAN 10% MATERIAL PASSING THE NO 200 SIEVE.
4. ALL FILLING AND EXCAVATION SHALL BE COMPLETED PRIOR TO THE INSTALLATION OF ANY UTILITIES.
5. CONTRACTOR TO PROVIDE TEST RESULTS OF SUBGRADE AND BASE COURSE COMPACTION TO ENGINEER.

GRADING & DRAINAGE NOTES:

1. STORM PIPES SHALL BE JOINED PER DOT SPECIFICATIONS.
2. ALL PIPE SHALL BE INSTALLED IN NEW CONDITION.
3. A RIGHT OF WAY WORK PERMIT MAY BE REQUIRED BEFORE ANY WORK CAN BE DONE IN THE RIGHT OF WAY.
4. ALL STORM DRAINAGE PIPING SHALL BE CONSTRUCTED PER DOT SPECS.
5. ALL STORM DRAINAGE PIPING JOINTS SHALL BE WRAPPED IN FILTER FABRIC.
6. CONTRACTOR TO REQUEST CONFIRMATION OF LATEST PLAN REVISION DATE FROM ENGINEER IN WRITING PRIOR TO ORDERING MATERIALS.
7. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO ORDERING MATERIALS.

WATER & SEWER NOTES

1. ALL WATER AND SEWER CONSTRUCTION SHALL CONFORM WITH THE REQUIREMENTS OF THE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE CITY OF FERNADINA BEACH. IN THE EVENT OF A DISCREPANCY BETWEEN THESE CONSTRUCTION PLANS AND THE AFOREMENTIONED STANDARDS AND SPECIFICATIONS, THE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS SHALL TAKE PRECEDENCE UNLESS THE DEVIATION HAS BEEN APPROVED IN WRITING BY THE CITY OF FERNADINA BEACH.
2. THE MINIMUM HORIZONTAL AND VERTICAL SEPARATION BETWEEN WATER LINES, SEWER LINES AND STORM DRAINS SHALL CONFORM TO THE LATEST FLORIDA DEP REQUIREMENTS.
3. A MINIMUM DISTANCE OF 20' OR TWO TIMES THE DEPTH OF THE MAIN, WHICHEVER IS GREATER, SHALL BE MAINTAINED FROM ALL BUILDINGS, FOUNDATIONS AND THE TOP OF BANK OF ALL PONDS. ANY DEVIATION FROM THIS REQUIREMENT MUST BE APPROVED IN WRITING BY THE CITY OF FERNADINA BEACH.
4. PRESSURE AND LEAKAGE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE CITY OF FERNADINA BEACH.
5. DISINFECTION OF WATER MAINS SHALL BE PERFORMED IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE CITY OF FERNADINA BEACH.
6. AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF THE WORK, THE CONTRACTOR SHALL CALL SUNSHINE 811 AT 1-800-432-4770 TO REQUEST UNDERGROUND UTILITY LOCATE SERVICE.
7. ALL GRAVITY SEWERS SHALL BE LOW PRESSURE AIR TESTED IN ACCORDANCE WITH THE CITY OF FERNADINA BEACH STANDARDS
8. ALL SANITARY SEWER MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH THE CITY OF FERNADINA BEACH STANDARDS.
9. ALL PORTIONS OF NEW SEWAGE FORCEMAIN SHALL UNDERGO A HYDROSTATIC TEST PER THE CITY OF FERNADINA BEACH STANDARDS
10. SEE CITY OF FERNADINA BEACH STANDARDS FOR MINIMUM PIPE COVER REQUIREMENTS.
11. RECORD DRAWINGS MUST BE PROVIDED TO CITY OF FERNADINA BEACH FOR PUBLIC WATER AND SEWER LINES IN ACCORDANCE WITH CITY OF FERNADINA BEACH RECORD DRAWING STANDARDS.

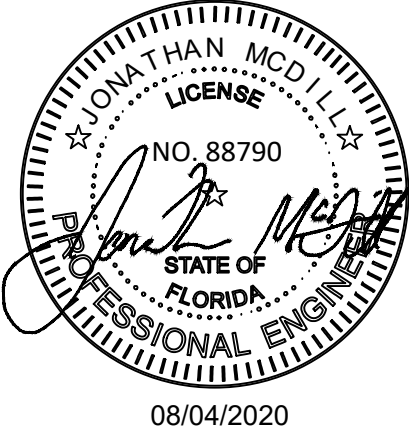
GENERAL WATER NOTES:

1. PVC PIPE SHALL BE BLUE IN COLOR. PIPE 4" TO 12" SHALL CONFORM TO REQUIREMENTS OF AWWA C-900, DR 18 PRESSURE CASS 235 P.S.I. AND SHALL HAVE THE FOLLOWING MINIMUM WALL THICKNESS:
4" 0.267 INCHES
6" 0.383 INCHES
8" 0.503 INCHES
10" 0.617 INCHES
12" 0.733 INCHES
PIPE LESS THAN 4" IN DIAMETER SHALL CONFORM TO ASTM D-1784 AND D-2241 (SDR 21). THE PIPE SHALL HAVE A MINIMUM PRESSURE RATING OF 200 P.S.I. THE PVC PIPE SHALL BEAR THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL.
2. FITTING FOR PVC SHALL BE DUCTILE IRON IN ACCORDANCE WITH ANSI A-21.53 (AWWA C-153). FITTINGS SHALL BE CEMENT LINED IN ACCORDANCE WITH ANSI A-21.4 (AWWA C-104). FITTINGS LESS THAN 4" SHALL BE PVC WITH RING TITE RUBBER JOINTS CONFORMING TO ASTM D-3139.
3. VALVES SHALL BE INSTALLED IN APPROVED UNDERGROUND VALVE BOXES OF DUCTILE IRON WITH A SUITABLE CRUSHING STRENGTH.
4. MAINTAIN A TEN (10) FOOT HORIZONTAL SEPARATION BETWEEN ANY EXISTING OR PROPOSED WATER MAIN AND SANITARY SEWER, STORM SEWER, OR SEWER MANHOLE.
5. WHEN A 10 FOOT HORIZONTAL SEPARATION CANNOT BE MAINTAINED, THE WATER MAIN MAY BE LAID CLOSER TO THE SEWER PROVIDED THAT THE WATER MAIN IS LAID IN A SEPARATE TRENCH AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.
6. WATER CROSSING A SEWER SHALL BE AT LEAST 18" ABOVE THE TOP OF THE SEWER. A FULL LENGTH OF WATER PIPE SHALL BE USED AT THE CROSSING WITH THE ENDS OF THE WATER AS FAR AWAY FROM THE SEWER AS POSSIBLE.
7. VERIFY SIZE AND LOCATION OF WATER SERVICES PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIALS.
8. IF UTILITY CONFLICT IS ENCOUNTERED IN THE FIELD, SEE UTILITY CONFLICT DETAIL.

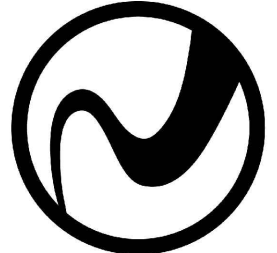
GENERAL SEWER NOTES:

1. PVC PIPE BE POLYVINYL CHLORIDE PLASTIC (PVC) AND SHALL MEET ALL REQUIREMENTS OF ASTM D 3034 SDR 26. DEPTHS LESS THAN 3 FEET SHALL BE DUCTILE IRON PIPE. ASTM D 2321 MUST BE FOLLOWED FOR THE INSTALLATION OF PVC PIPE. RUBBER RINGS SHOULD BE USED FOR CONTRACTION AND EXPANSION AT EACH JOINT. FITTINGS SHALL MEET THE SAME SPECIFICATION REQUIREMENTS AS THE PIPE. TESTS ON PVC PIPE SHALL BE DESIGNED TO PASS ALL TESTS AT 73° F. PIPE STANDARD LENGTHS SHALL BE 12.5 FEET (PLUS OR MINUS 1 INCH). PIPE SIZES AND DIMENSIONS SHALL BE AS SHOWN IN THE TABLE BELOW:

NOM SIZE	OUTSIDE DIA	MIN WALL THICKNESS
4"	4.215	0.162
6"	6.275	0.241
8"	8.400	0.323
10"	10.500	0.404
12"	12.500	0.481
2. JOINTS FOR PVC PIPE - SHALL BE INTEGRAL WALL BELL AND SPIGOT WITH A RUBBER RING GASKET. THE JOINTS SHALL CONFORM TO ASTM D 3212 AND THE GASKETS SHALL CONFORM TO ASTM F 477.
3. PRECAST CONCRETE MANHOLES- SHALL BE REINFORCED CONCRETE CONSTRUCTED IN ACCORDANCE WITH ASTM C 478 AND THE DETAILS SHOWN ON THE PLANS. THE JOINTS SHALL BE TONGUE AND GROOVE SEALED WITH FLEXIBLE GASKETS OR MASTIC SEALANT. GASKETS SHALL BE O-RING OR EQUIVALENT TO TYPE A OR B "TYLOX" CONFORMING TO ASTM C 443. MASTIC SHALL BE EQUIVALENT TO "RAM-NEK" WITH PRIMER. ALL CONTACT SURFACES OF THE MANHOLE JOINT SHALL HAVE THE PRIMER IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
4. FRAMES AND COVERS - SHALL BE THE EQUIVALENT OF NEENAH FOUNDRY CO. R-1668 TYPE "C" LID
5. MANHOLE STEPS - SHALL BE EQUIVALENT TO M.A. INDUSTRIES, TYPE PS-1 OF PS-2 OR IMCO REINFORCED PLASTICS, INC. MODEL F.R.P. THE STEPS SHALL BE INSTALLED AT THE MANHOLE FACTORY AND IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE STEP MANUFACTURER.
6. PIPE CONNECTIONS - SHALL HAVE FLEXIBLE WATERTIGHT JOINTS AT THE POINT OF ENTRY OF ANY SEWER MAIN INTO THE MANHOLE. THE JOINT SHALL BE WEDGED RUBBER SHAPE EQUIVALENT TO "PRESS WEDGE II," OR A RUBBER SLEEVE EQUIVALENT TO "KOR-N-SEAL" OR "LOCK JOINT."
7. #12 GAUGE SINGLE STRAND COPPER TRACING WIRE SHALL BE USED OVER ALL FORCE MAIN, SANITARY SEWER, AND SERVICE LATERAL LINES.
8. SEWER EXCAVATIONS SHALL BE TO THE DESIRED DEPTHS SHOWN ON THE PLANS WITH ADHERENCE TO THE OCCUPATIONAL AND SAFETY HEALTH ADMINISTRATION'S (OSHA) REGULATIONS. IN AREAS OF UNSUITABLE SOIL CONDITIONS, THE TRENCH MAY BE REQUIRE ADDITIONAL EXCAVATION AND BACKFILLED WITH SAND, GRAVEL, OR CONCRETE.
9. SEWER PIPES SHALL BE LAID UPGRADE WITH SPIGOTS POINTING DOWNGRADE. ASSEMBLY OF JOINTS SHALL COMPLY WITH MANUFACTURER'S RECOMMENDATIONS. SEAL OPEN ENDS OF PIPES IF INSTALLATION IS INTERRUPTED. MANHOLE CONNECTIONS SHOULD BE WATER TIGHT WITH THE USE OF FLEXIBLE WATER STOPS AND RESILIENT CONNECTORS.
10. MANHOLES SHALL HAVE A CHANNEL IN THE BOTTOM THAT IS SMOOTH AND ROUNDED. MANHOLE TOP ELEVATIONS SHALL BE GREATER THAN OR EQUAL TO THE FIFTY (50) YEAR FLOOD ELEVATION, UNLESS WATERTIGHT COVERS ARE PROVIDED. OUTSIDE OF PAVED AREAS, THE MANHOLE TOP ELEVATION SHALL BE 1" ABOVE THE GROUND SURFACE IN DEVELOPED AREAS AND 6" ABOVE THE GROUND SURFACE IN UNDEVELOPED AREAS UNLESS SHOWN OTHERWISE ON THE PLANS. MANHOLES IN PAVED AREAS SHALL BE BUILT AS DESIGNATED BY THE ENGINEER. NO LEAKS IN MANHOLES ARE ACCEPTABLE.



REVISIONS											
2020-08-04: REVISIONS PER CITY COMMENTS											



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GENERAL NOTES

PAXTON AUTOMOTIVE MARKETING
FERNANDINA BEACH, FLORIDA

PREPARED FOR:
PARKER CONTRACTING, INC.

DATE: 06/12/20	PROJECT NUMBER: 20800
DRAWN BY: TL	CHECKED BY: JM
SCALE: NTS	

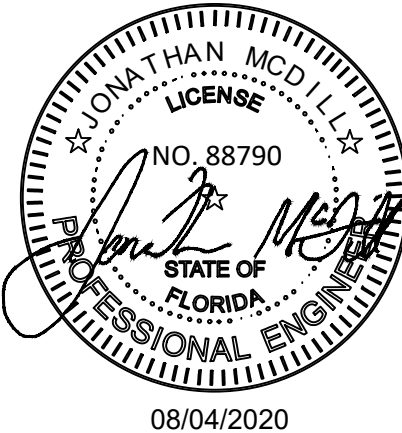
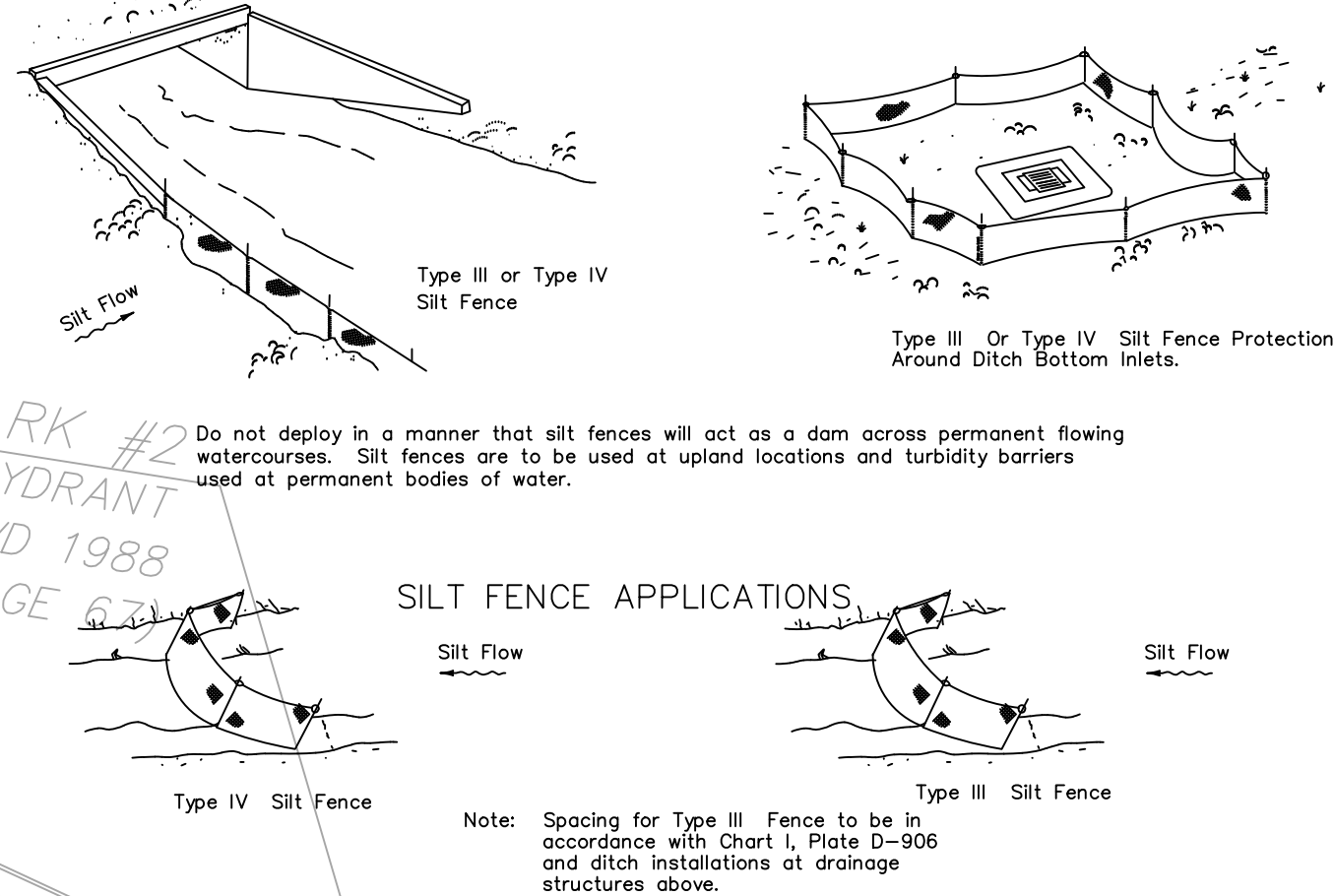
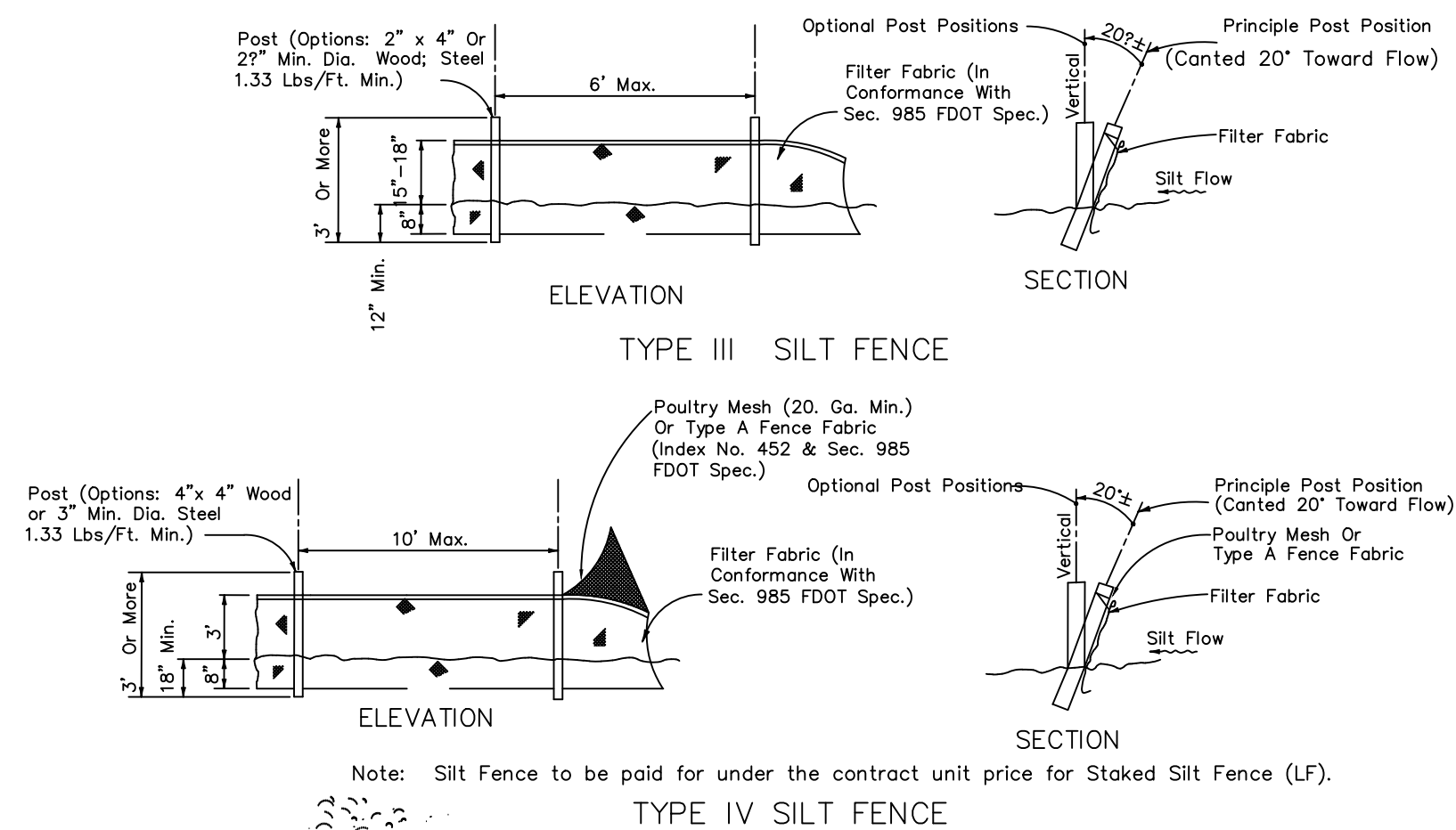
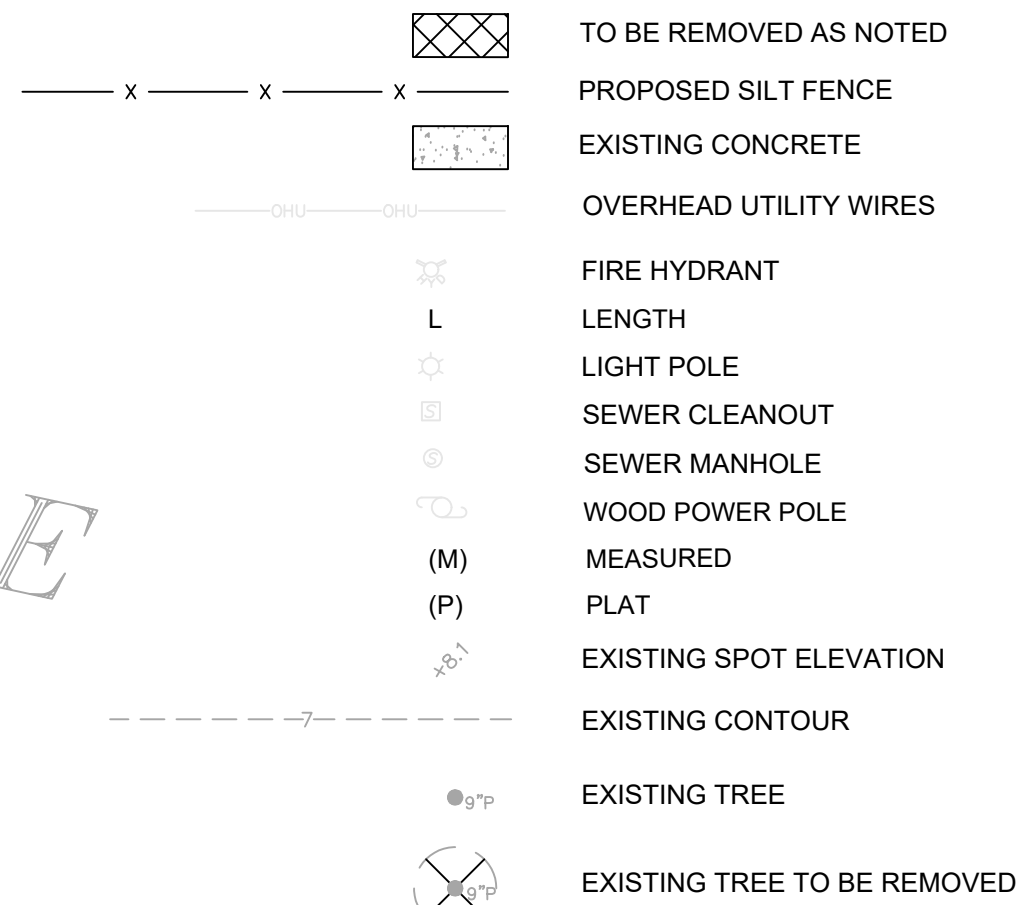
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SHEET:

NOTE:

CONTRACTOR TO COORDINATE REMOVAL OF EXISTING TREES, LIGHTS, CABLE, IRRIGATION AND POWER WITH OWNER.

LEGEND



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EXISTING CONDITIONS & DEMOLITION PLAN

**PAXTON AUTOMOTIVE MARKETING
FERNANDINA BEACH, FLORIDA**

PREPARED FOR:
PARKER CONTRACTING, INC.

PARKER CONTRACTING, INC.

DATE: 06/12/20

PROJECT NUMBER: 20800

DRAWN BY: TL

CHECKED BY: JM

SCALE: 1":10' (FOR 24"X36" PLOT)

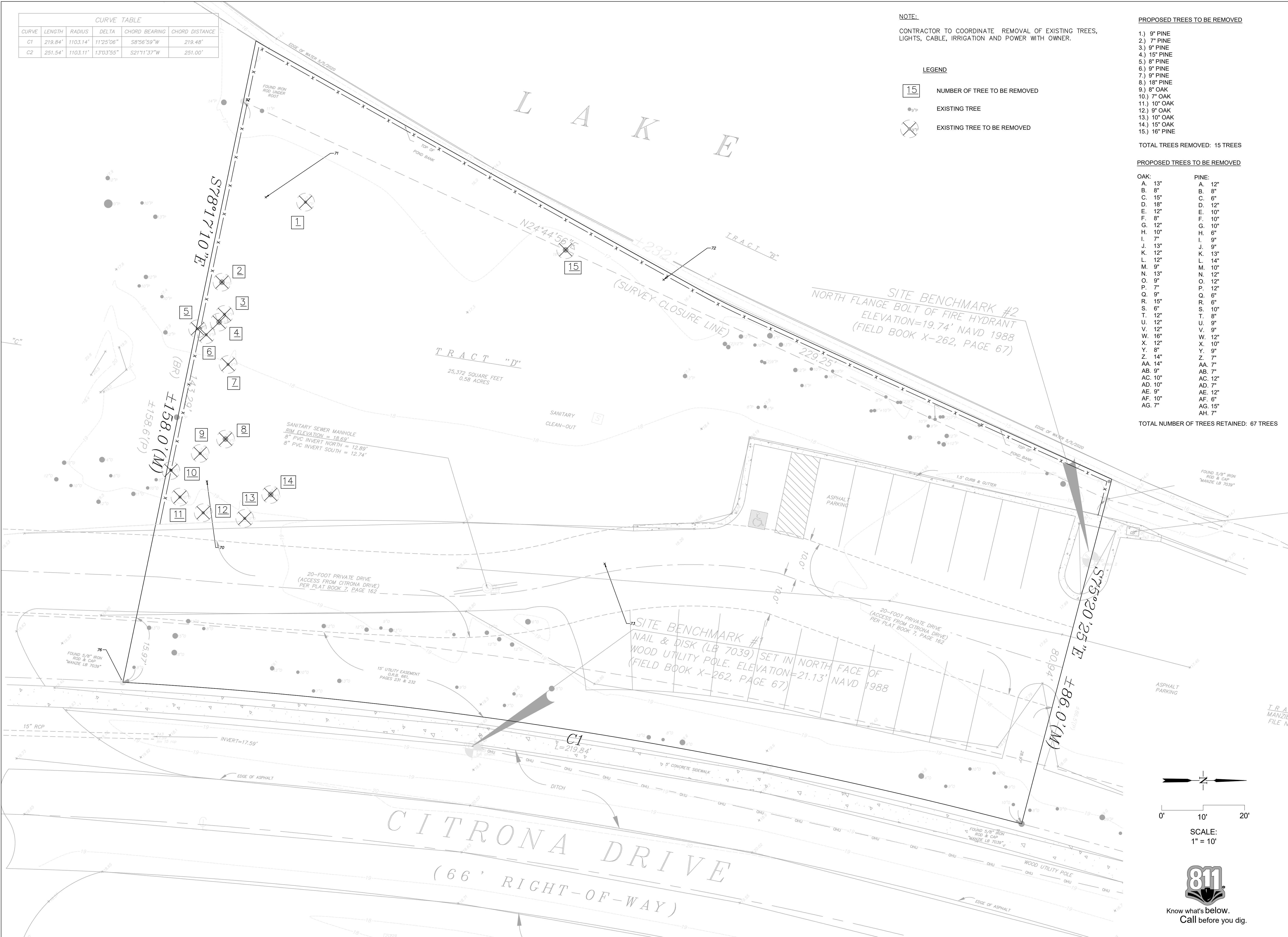
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SHEET:



Know what's below.
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CURVE TABLE				
CURVE	LENGTH	RADIUS	DELTA	CHORD BEARING
C1	219.84'	1103.14'	11°25'06"	S8°56'59"W
C2	251.54'	1103.11'	13°03'55"	S21°11'37"W



NOTE:
CONTRACTOR TO COORDINATE REMOVAL OF EXISTING TREES, LIGHTS, CABLE, IRRIGATION AND POWER WITH OWNER.

- LEGEND
- 15 NUMBER OF TREE TO BE REMOVED
 - EXISTING TREE
 - EXISTING TREE TO BE REMOVED

PROPOSED TREES TO BE REMOVED

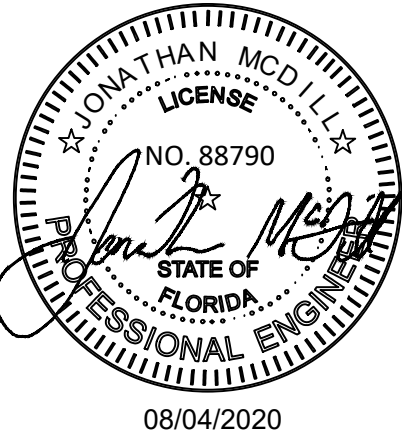
- 1.) 8" PINE
- 2.) 7" PINE
- 3.) 9" PINE
- 4.) 15" PINE
- 5.) 8" PINE
- 6.) 9" PINE
- 7.) 9" PINE
- 8.) 18" PINE
- 9.) 8" OAK
- 10.) 7" OAK
- 11.) 10" OAK
- 12.) 9" OAK
- 13.) 10" OAK
- 14.) 15" OAK
- 15.) 16" PINE

TOTAL TREES REMOVED: 15 TREES

PROPOSED TREES TO BE REMOVED

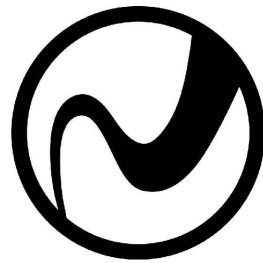
- | OAK: | PINE: |
|---------|---------|
| A. 13" | A. 12" |
| B. 8" | B. 8" |
| C. 15" | C. 6" |
| D. 18" | D. 12" |
| E. 12" | E. 10" |
| F. 8" | F. 10" |
| G. 12" | G. 10" |
| H. 10" | H. 6" |
| I. 7" | I. 9" |
| J. 13" | J. 9" |
| K. 12" | K. 13" |
| L. 12" | L. 14" |
| M. 9" | M. 10" |
| N. 13" | N. 12" |
| O. 9" | O. 12" |
| P. 7" | P. 12" |
| Q. 9" | Q. 6" |
| R. 15" | R. 6" |
| S. 6" | S. 10" |
| T. 12" | T. 8" |
| U. 12" | U. 9" |
| V. 12" | V. 9" |
| W. 16" | W. 12" |
| X. 12" | X. 10" |
| Y. 8" | Y. 9" |
| Z. 14" | Z. 7" |
| AA. 14" | AA. 7" |
| AB. 9" | AB. 7" |
| AC. 10" | AC. 12" |
| AD. 10" | AD. 7" |
| AE. 9" | AE. 12" |
| AF. 10" | AF. 6" |
| AG. 7" | AG. 15" |
| | AH. 7" |

TOTAL NUMBER OF TREES RETAINED: 67 TREES



REVISIONS

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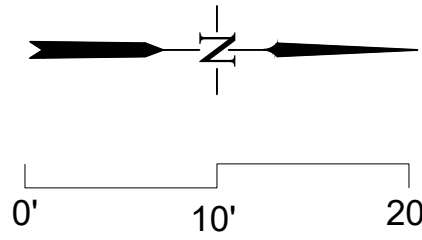
TREE PROTECTION PLAN

PAXTON AUTOMOTIVE MARKETING
FERNANDINA BEACH, FLORIDA
PREPARED FOR:
PARKER CONTRACTING, INC.

DATE: 08/04/20
PROJECT NUMBER: 20800
DRAWN BY: TL
CHECKED BY: JM
SCALE: 1"=10' (FOR 24"x36" PLCT)

3A

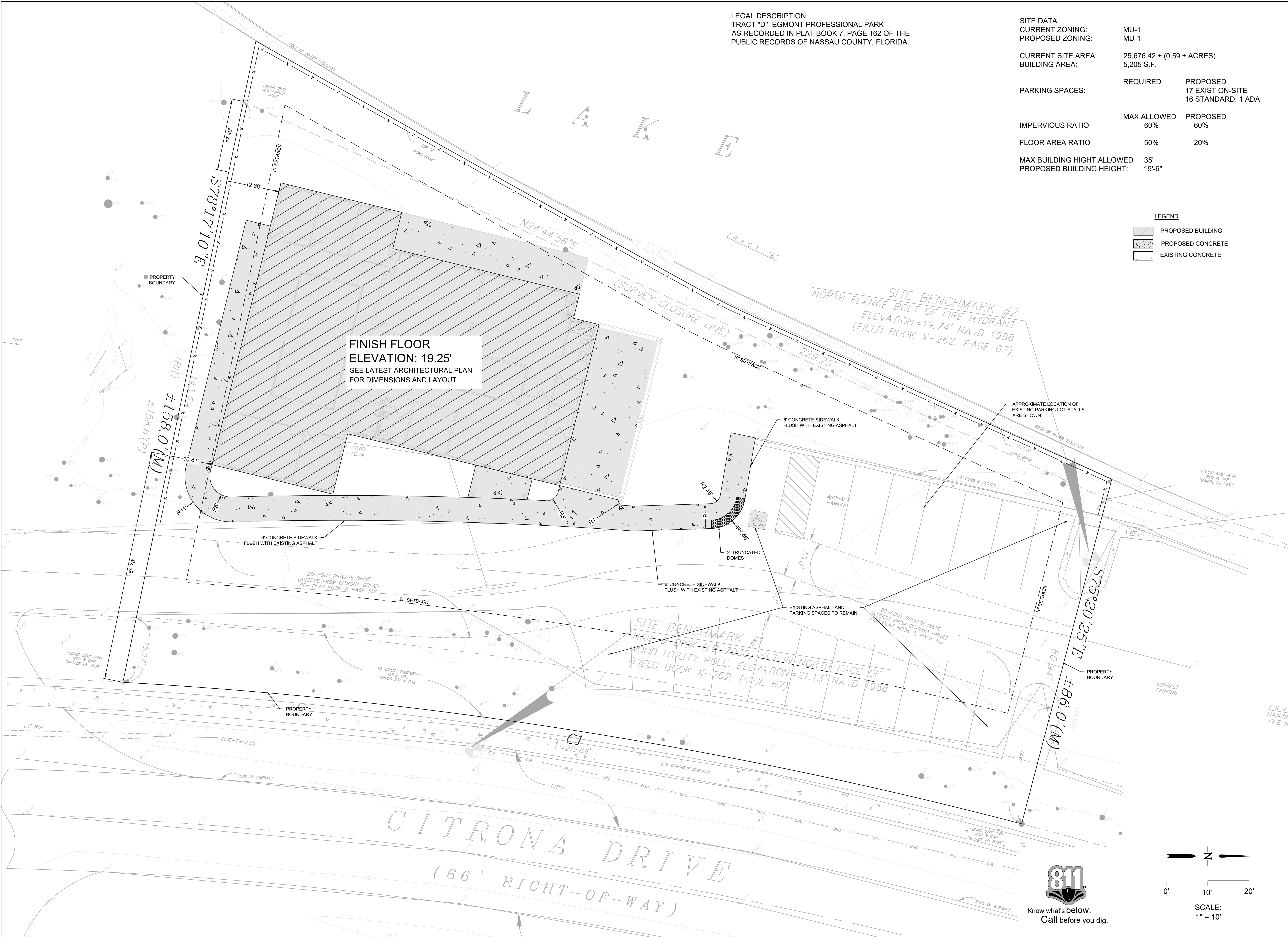
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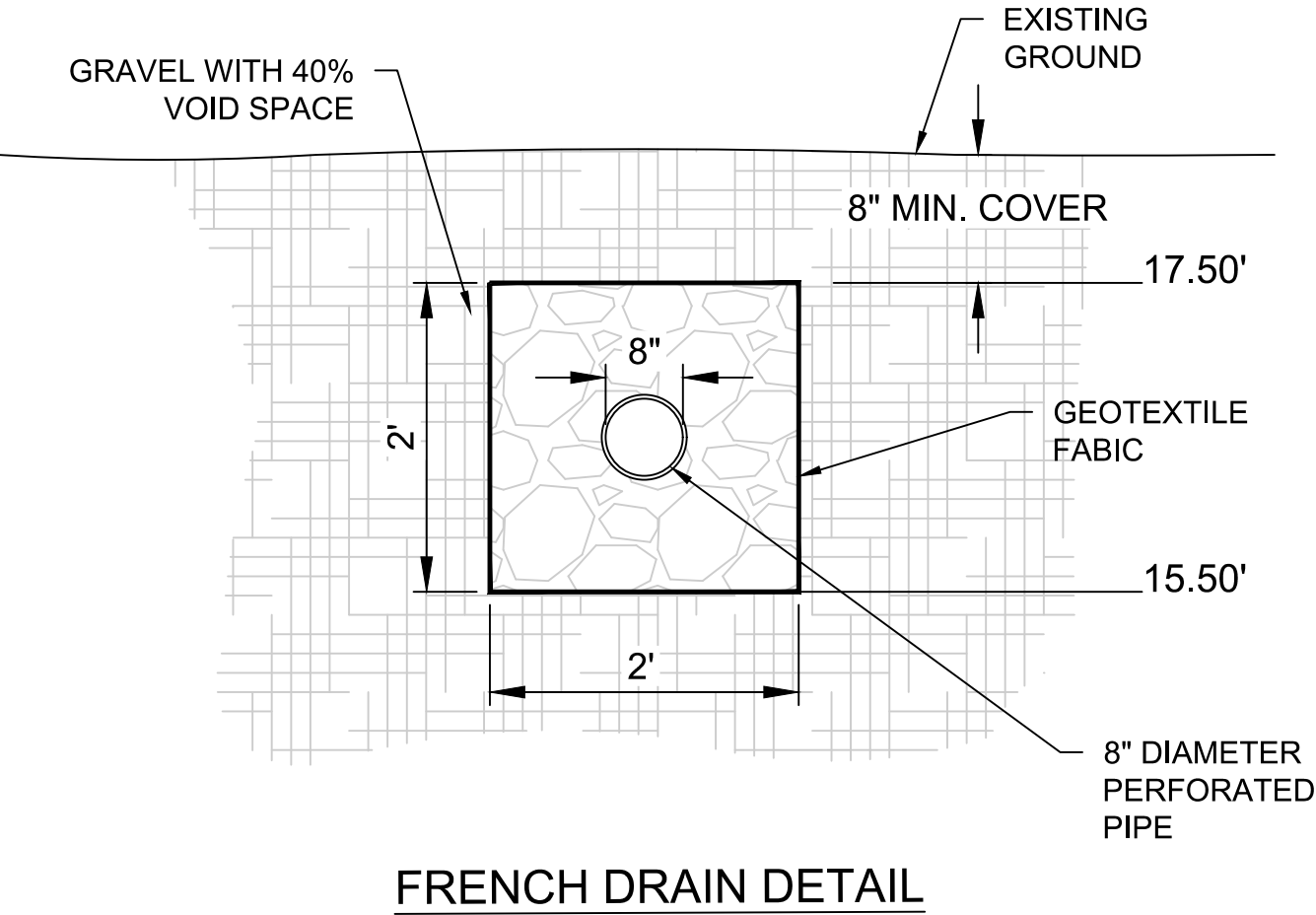
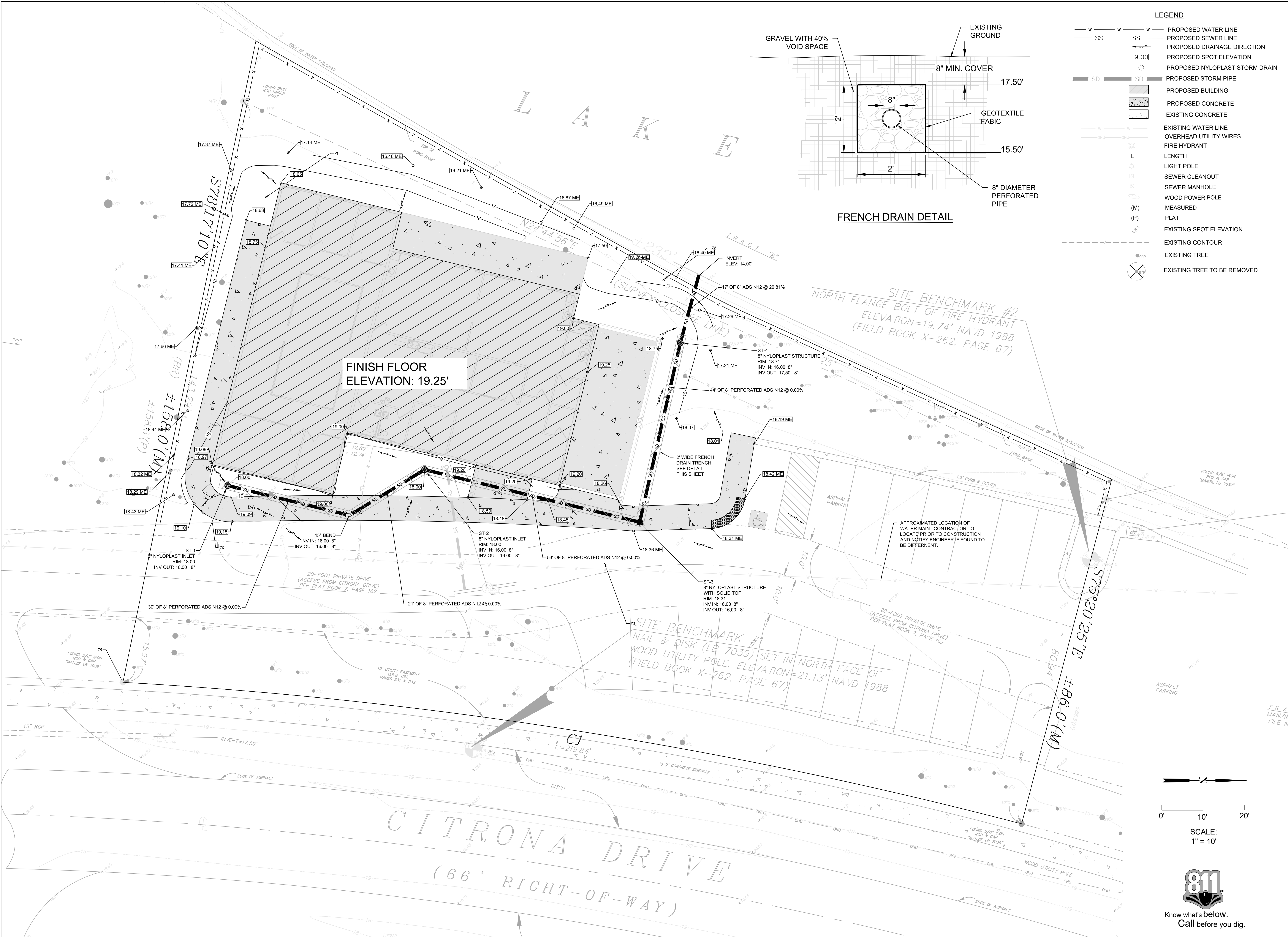


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1" = 10'

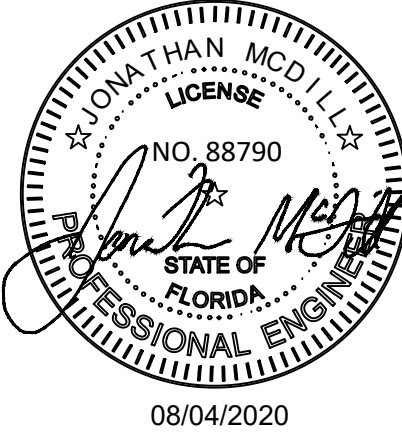


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- LEGEND**
- W — W — W — PROPOSED WATER LINE
 - SS — SS — SS — PROPOSED SEWER LINE
 - >— PROPOSED DRAINAGE DIRECTION
 - 9.00 PROPOSED SPOT ELEVATION
 - PROPOSED NYLOPLAST STORM DRAIN
 - SD — SD — SD — PROPOSED STORM PIPE
 - ▨ PROPOSED BUILDING
 - ▨ PROPOSED CONCRETE
 - ▨ EXISTING CONCRETE
 - W — W — W — EXISTING WATER LINE
 - SS — SS — SS — OVERHEAD UTILITY WIRES
 - ⊕ FIRE HYDRANT
 - L LENGTH
 - LIGHT POLE
 - SEWER CLEANOUT
 - SEWER MANHOLE
 - WOOD POWER POLE
 - (M) MEASURED
 - (P) PLAT
 - EXISTING SPOT ELEVATION
 - - - EXISTING CONTOUR
 - ⊗ EXISTING TREE
 - ⊗ EXISTING TREE TO BE REMOVED



REVISIONS	
NO.	DESCRIPTION
2020-08-04	REVISED PER CITY COMMENTS

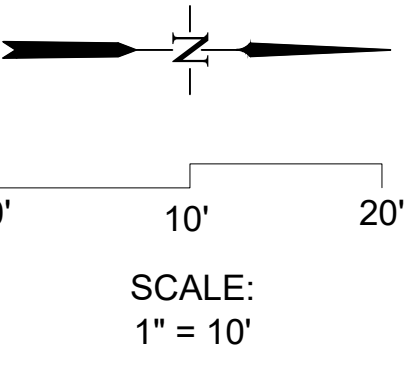
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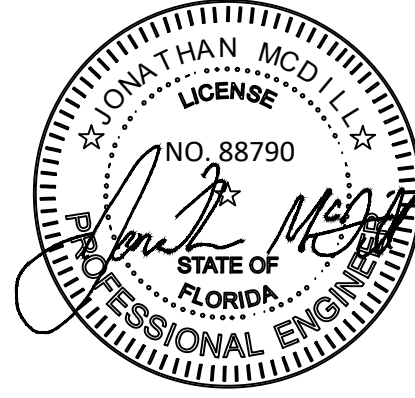
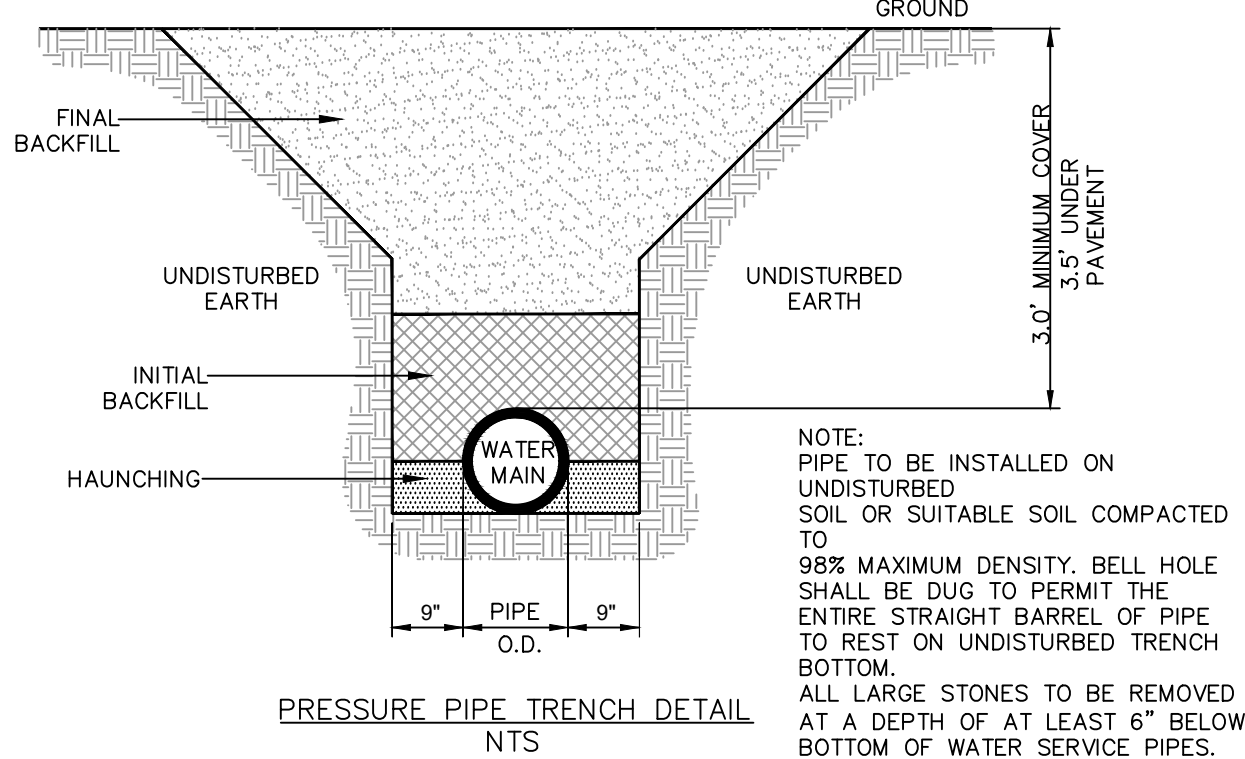
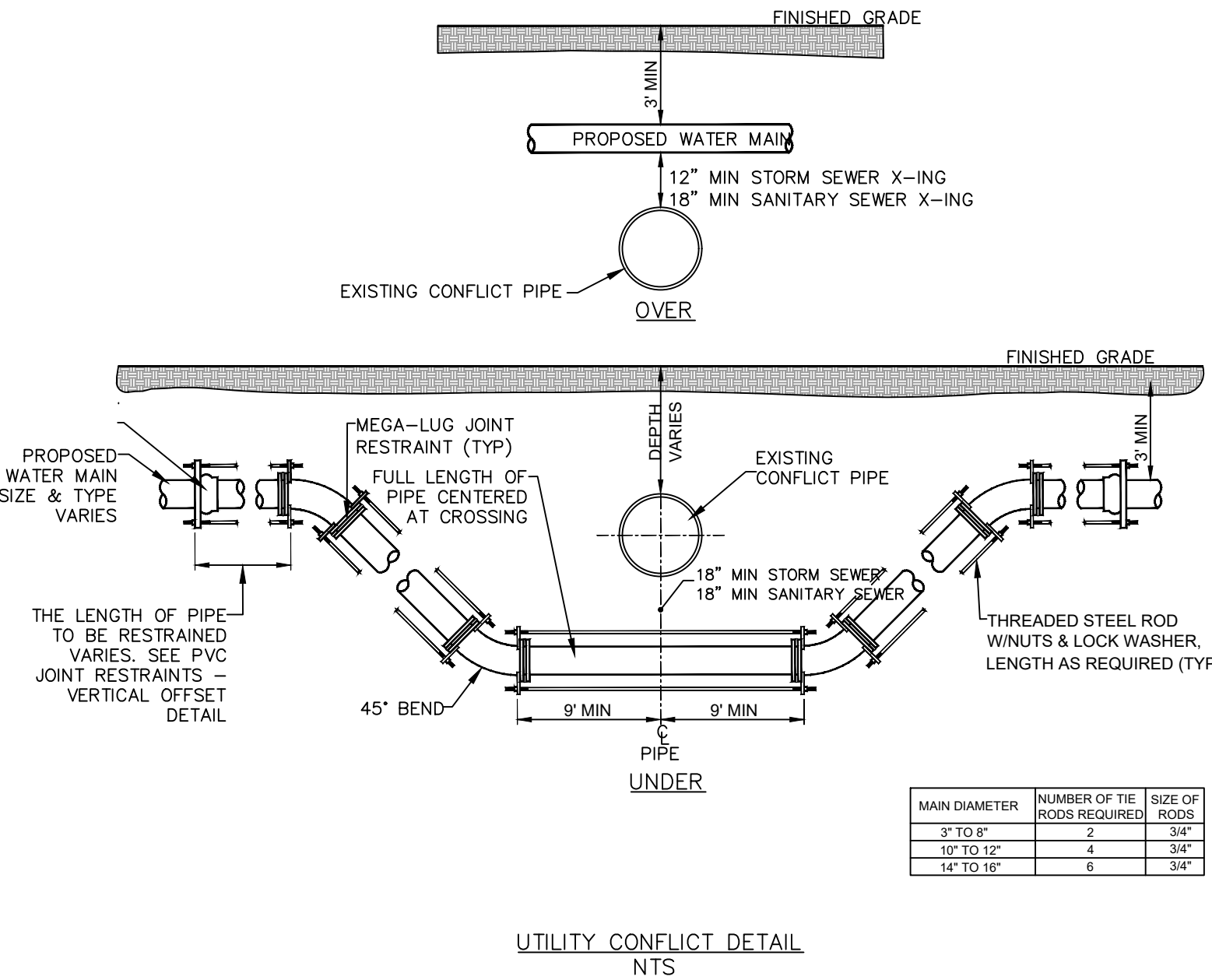
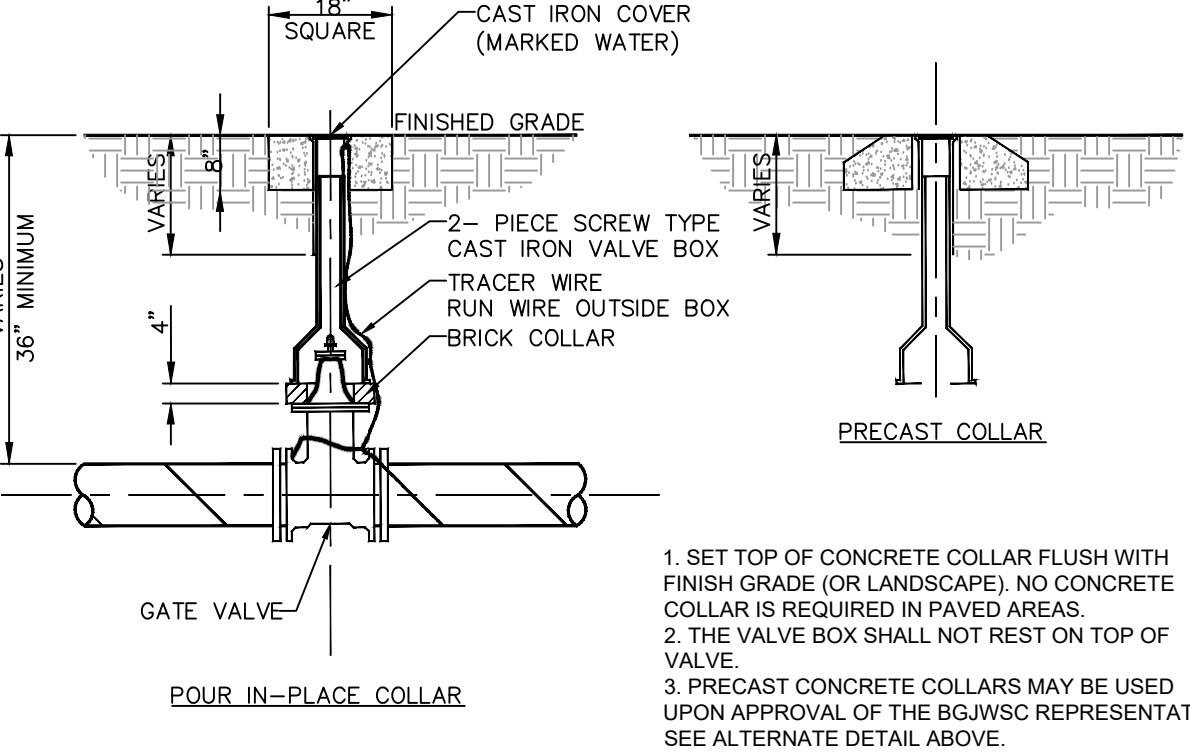
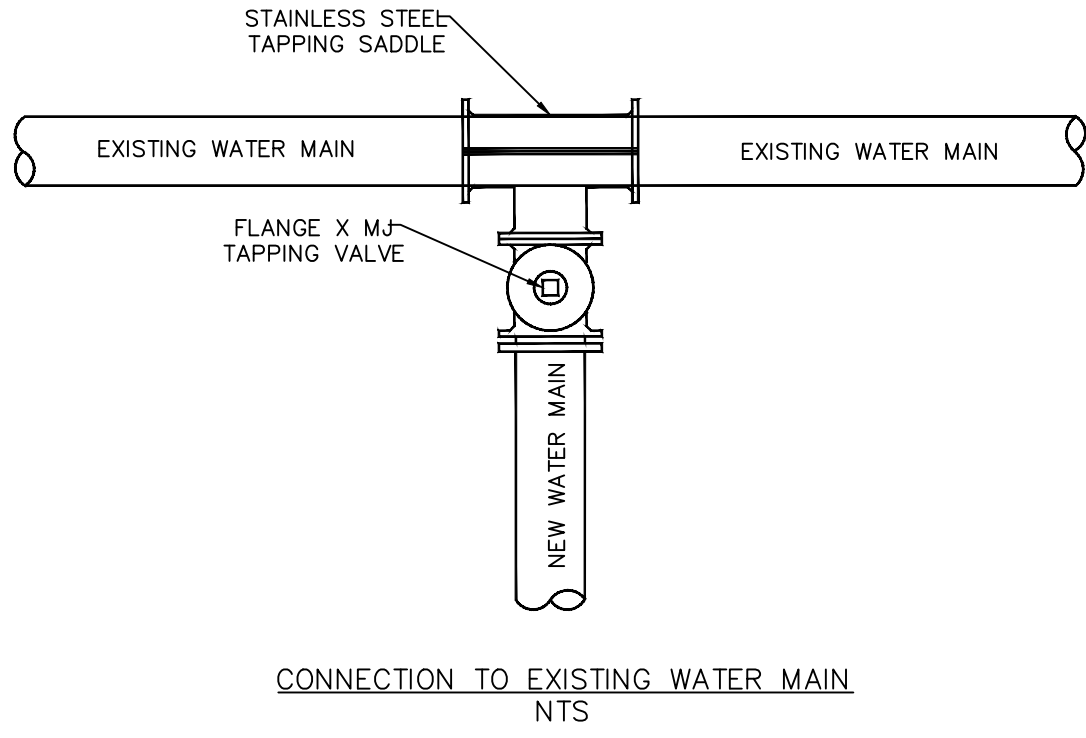
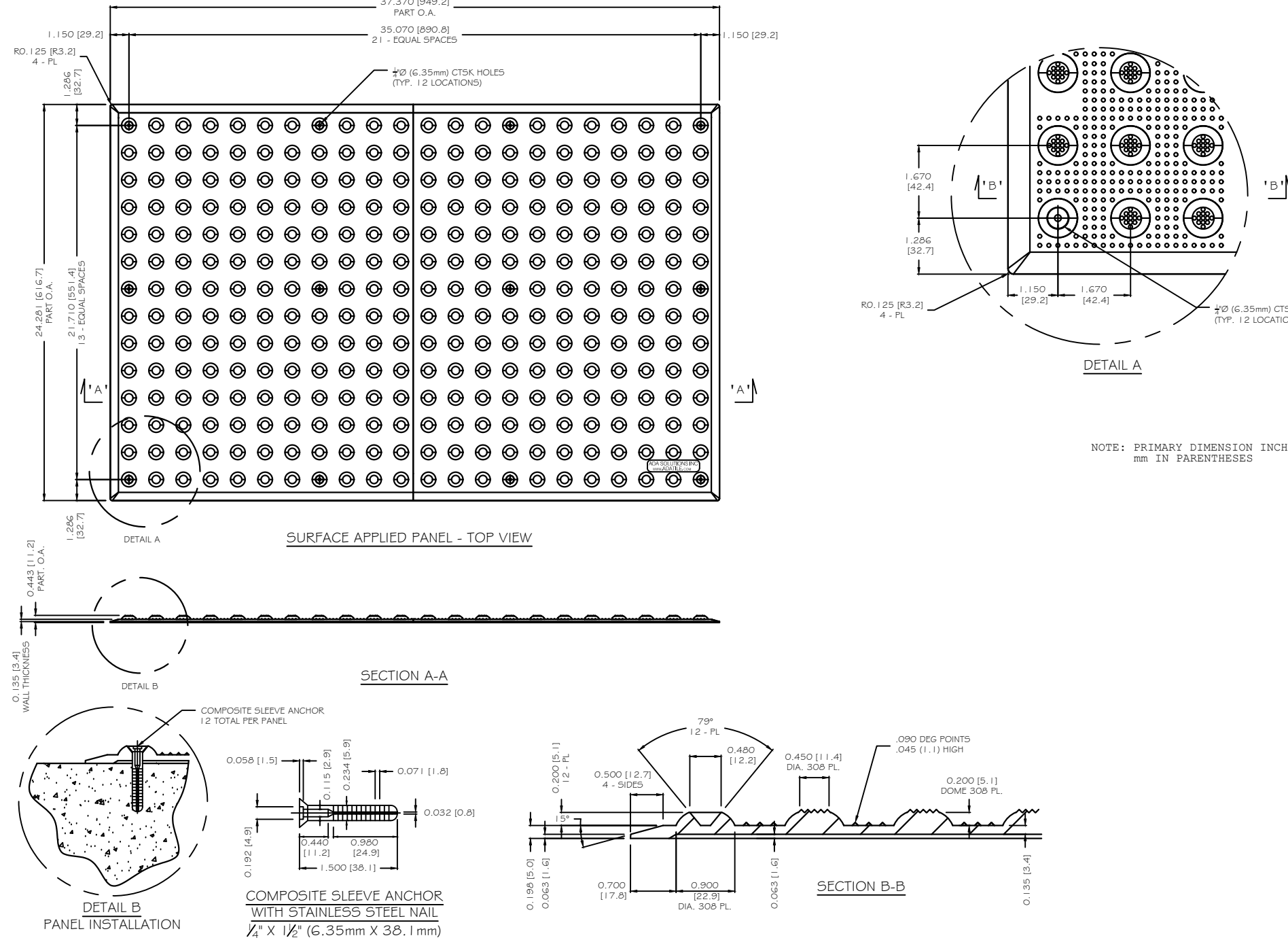
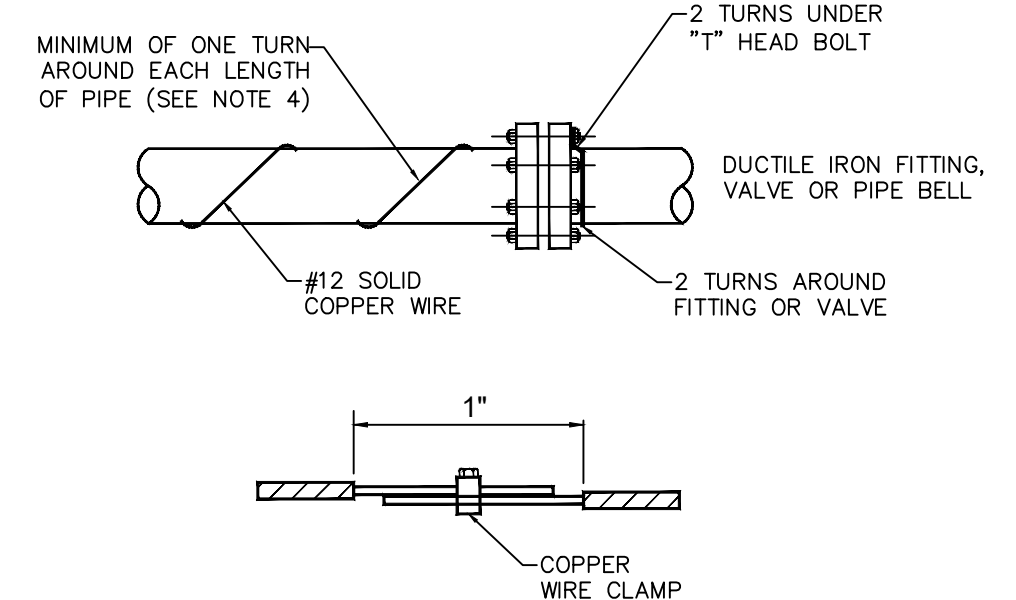
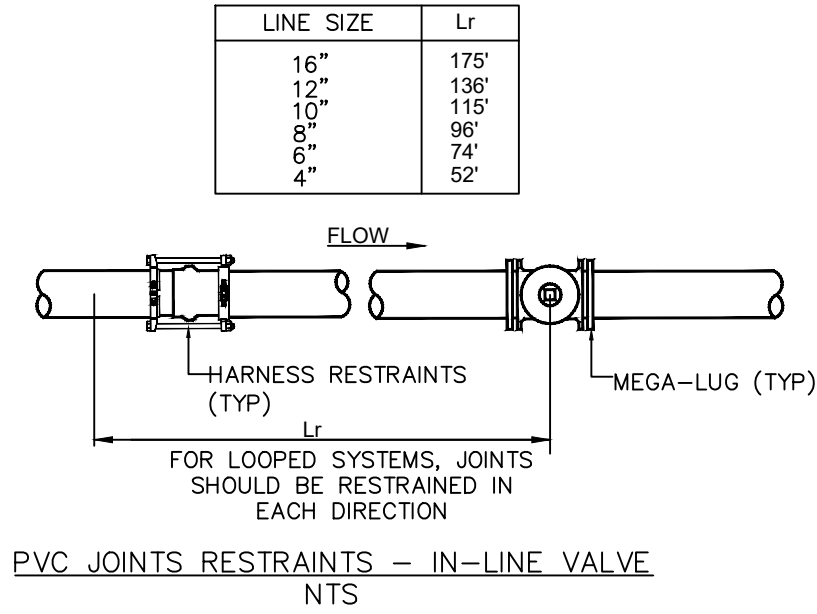
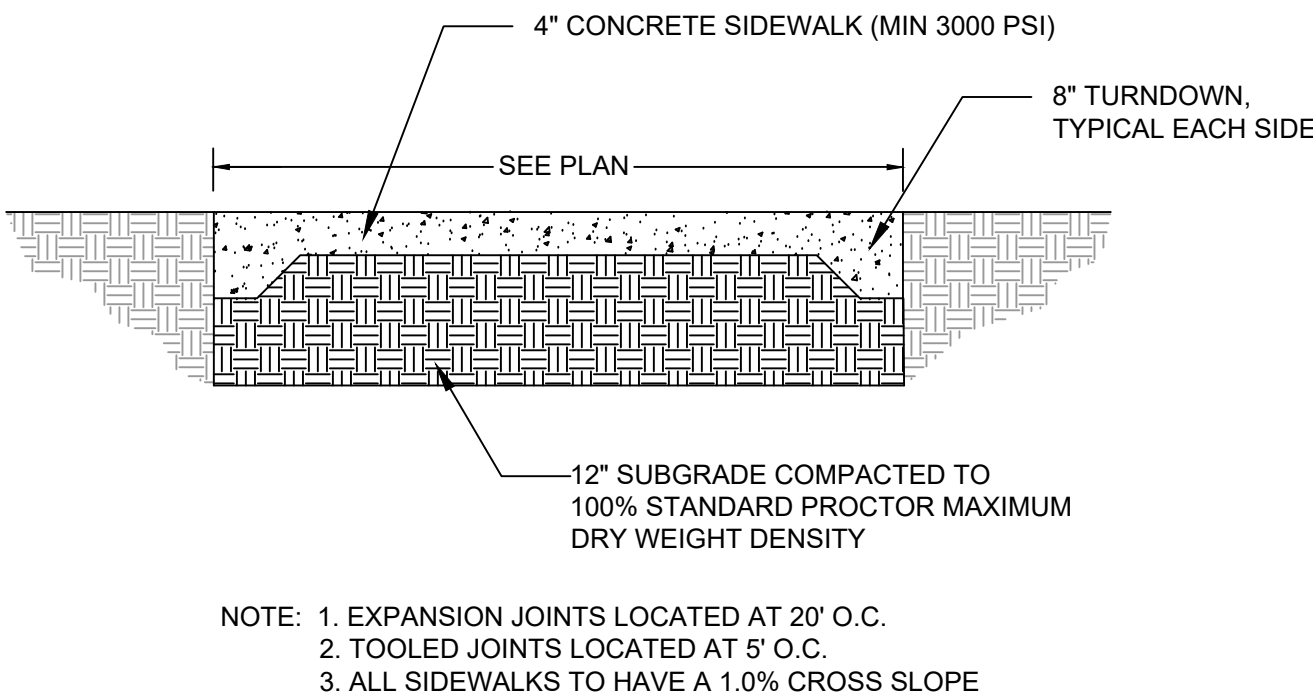
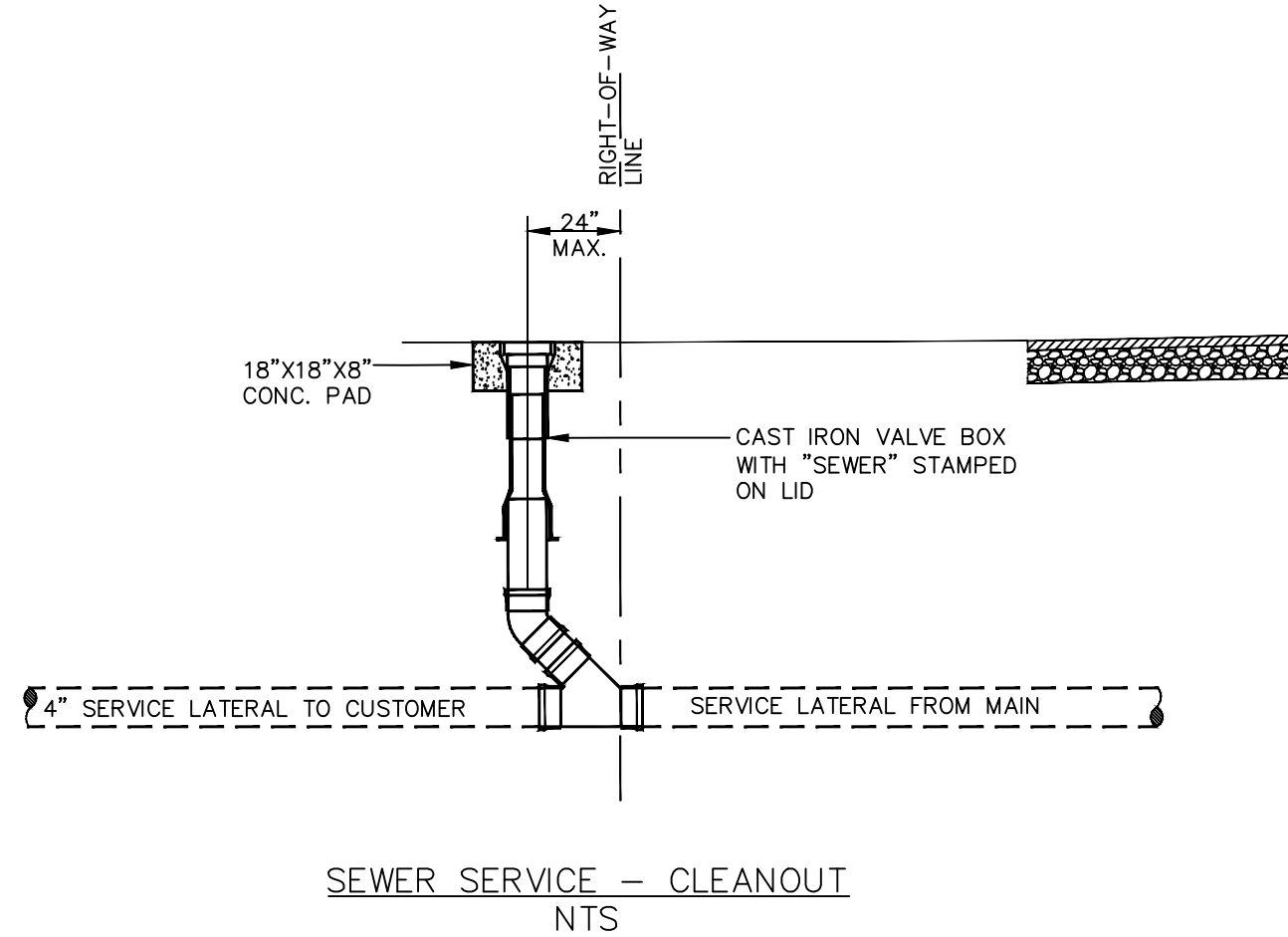
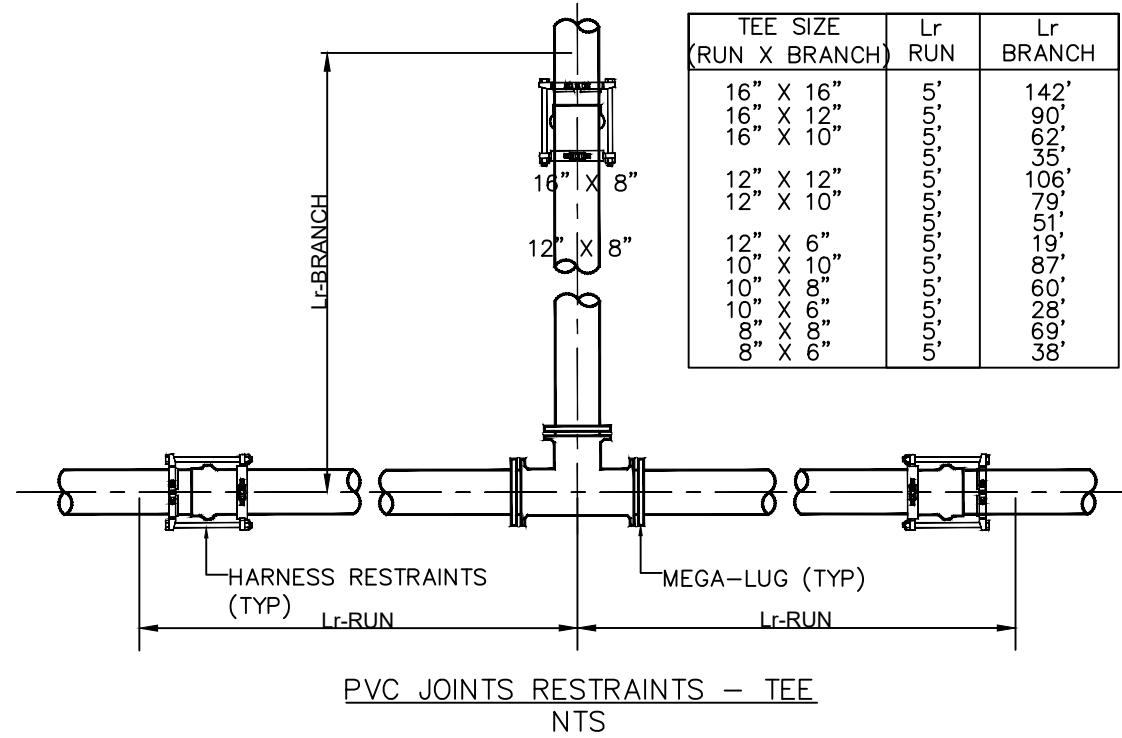
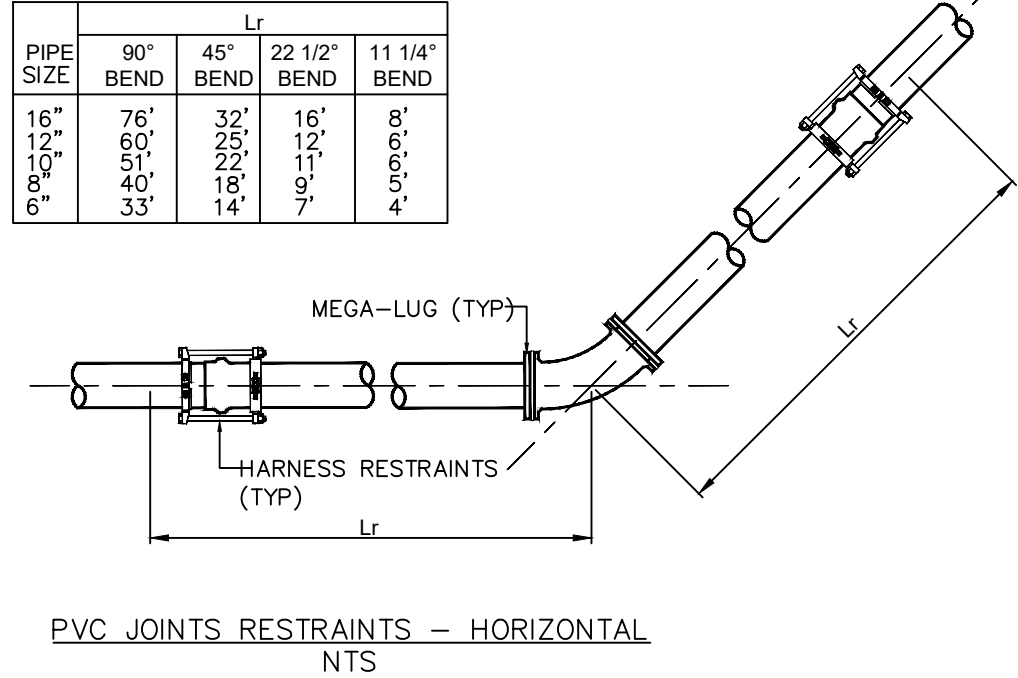
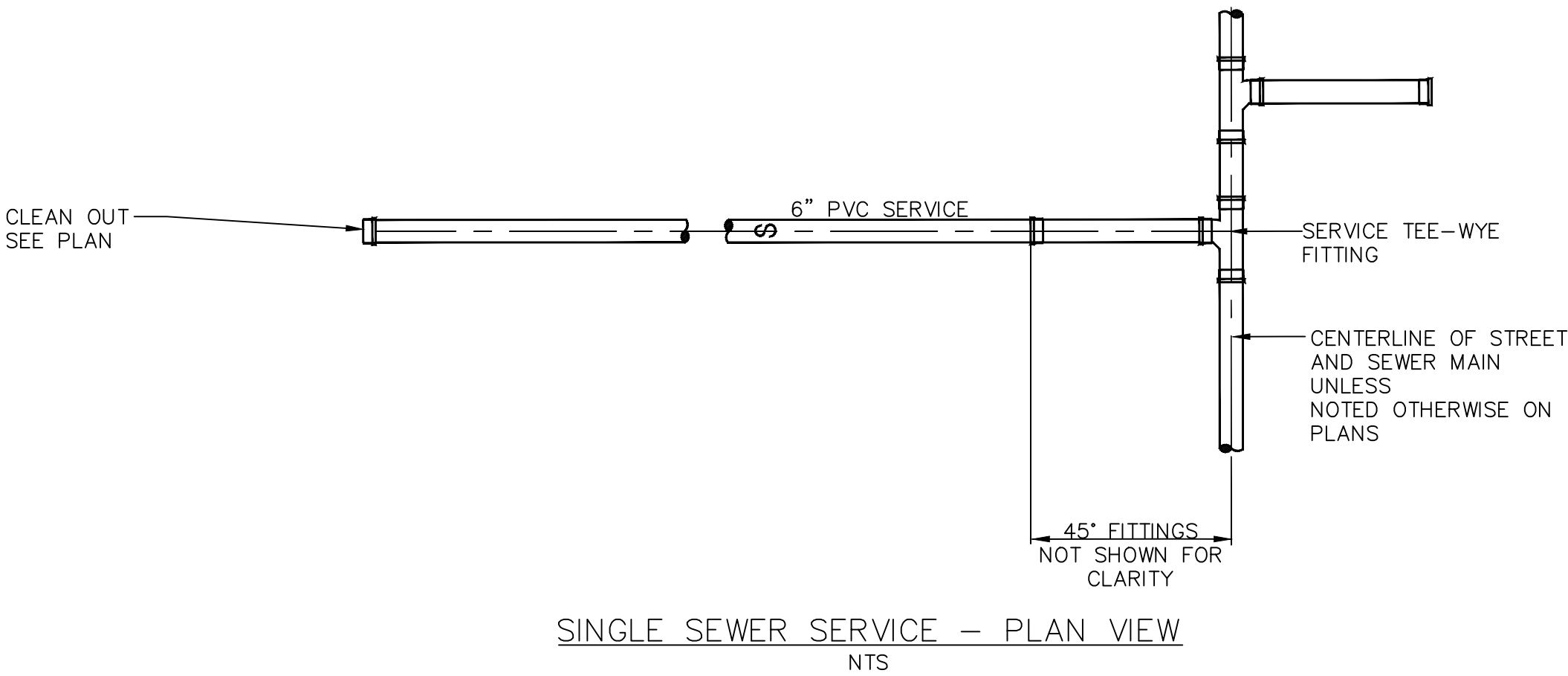
GRADING & DRAINAGE PLAN

**PAXTON AUTOMOTIVE MARKETING
FERNANDINA BEACH, FLORIDA**

PREPARED FOR:
PARKER CONTRACTING, INC.

DATE: 06/12/20
PROJECT NUMBER: 20800
DRAWN BY: TL
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SCALE: 1"=10' (FOR 24"x36" PLLOT)

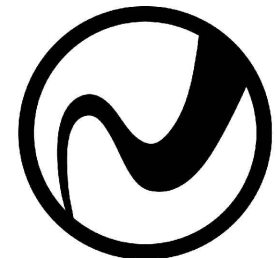




08/04/2020

REVISIONS
2020-08-04: REVISIONS PER CITY COMMENTS

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CONSTRUCTION DETAILS

PAXTON AUTOMOTIVE MARKETING
FERNANDINA BEACH, FLORIDA
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PARKER CONTRACTING, INC.

DATE: 06/12/20
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7

SHEET: