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CONSTRUCTION PLANS
PROPOSED BUILDING FOR
FORTUNE PLASTICS & METAL INC

8751 MAISLIN DRIVE
TAMPA, FL 33637
STR 25/28S/19E
FOLIO: 038252.0188

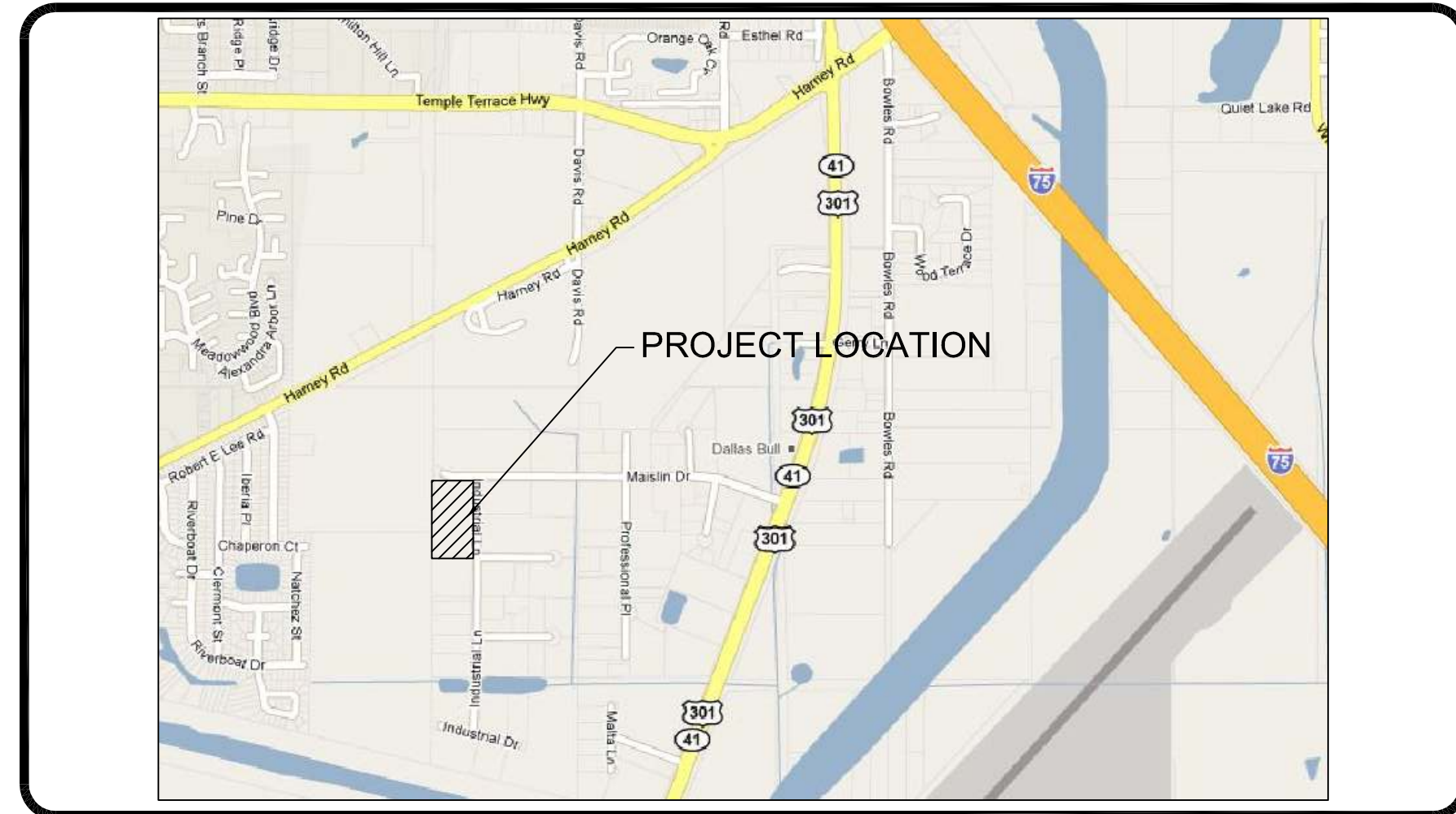
PREPARED FOR:
MILLER CONTRACTING, INC
9801 LELLA AVENUE
TAMPA, FL 33615
813-886-6621
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LOTS 1 AND 2, BLOCK 3 OF U.S. 301 INDUSTRIAL PARK ADDITION,
ACCORDING TO MAP OR PLAT THEREOF AS RECORDED IN PLAT
BOOK 59, PAGE 17 OF THE PUBLIC RECORDS OF
HILLSBOROUGH COUNTY, FLORIDA.

LEGAL DESCRIPTION

LANDSCAPE
CONSTRUCTION NOTES

- ALL LANDSCAPE ACTIVITY SHALL MEET THE REQUIREMENT OF APPLICABLE HILLSBOROUGH COUNTY LANDSCAPE ORDINANCE OR CODE, LATEST EDITION.
- LANDSCAPE AREAS SHALL HAVE 100% IRRIGATION COVERAGE TO LANDSCAPE MATERIAL BY PERMANENT UNDERGROUND PIPING SYSTEM.
- ALL PLANT MATERIAL SHALL BE FLORIDA GRADE #1 AS PER 'GRADES & STANDARDS FOR NURSERY PLANTS' AND SHALL BE WARRANTED FOR A MINIMUM OF 90 DAYS BY THE LANDSCAPE CONTRACTOR.
- ALL TRIMMING UNDERTAKEN ON A TREE PROTECTED BY THE PROVISIONS OF THE LDC SHALL BE PRUNED IN ACCORDANCE WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) A-300 PRUNING STANDARDS.
- DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, WITHIN THE DRIP LINE OF A TREE REMAINING ON SITE, UNLESS OTHERWISE APPROVED BY THE ADMINISTRATOR, IT SHALL BE UNLAWFUL TO REMOVE VEGETATION, EXCEPT BY HAND, BY GRUBBING OR TO PLACE SOIL DEPOSITS, DEBRIS, SOLVENT, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND WITHIN THE DRIP LINE OF A TREE TO REMAIN ON THE SITE.
- TOPSOIL USED FOR PLANTING SHALL BE A MIXTURE OF THREE PARTS TO ONE PART PEAT. LANDSCAPED AREAS TO RECEIVE AN SIX-INCH LAYER OF COMPACTED TOPSOIL.
- PROTECTIVE BARRIERS MUST BE INSTALLED AROUND TREES TO BE RETAINED IN AN AREA WHERE THE LAND ALTERATION AND CONSTRUCTION ACTIVITIES WILL OCCUR AS WELL AS ALONG NATURAL AREA WHERE SUCH AREA ADJACENT TO PERMITTED LAND ALTERATION OR CONSTRUCTION ACTIVITIES. A PROTECTIVE BARRIER MUST REMAIN IN PLACE UNTIL THE LAND ALTERATION OR CONSTRUCTION ARE COMPLETED OR UNTIL COMMENCEMENT OF GRADE FINISHING AND SODDING. NO GROUND DISTURBANCE IS ALLOWED WITHIN THE BARRICADED AREA.
- ALL SOD ON SITE IS TO BE BAHIA GRASS.
- SOD SHALL BE INSTALLED IN ALL LANDSCAPE ISLANDS, BUFFERS AND 2' STRIP ADJACENT NEW ASPHALT PAVEMENT NOT ABUTTING LANDSCAPE AREA.
- IRRIGATION SYSTEMS MUST UTILIZE LOW VOLUME DESIGN SUCH AS LOW TRAJECTORY HEADS OR SOAKER HOSED TO PROVIDE DIRECT APPLICATION AND LOW EVAPORATION. SYSTEMS THAT OVER SPRAY AREAS THAT DO NOT REQUIRE IRRIGATION, SUCH AS PAVED AREAS WILL NOT BE ACCEPTABLE. HIGH IRRIGATION NEED AREAS MUST NOT OVER SPRAY LOW NEED AREAS.
- HIGH WATER DEMAND LANDSCAPE AREAS SUCH AS TURF MUST BE SERVED BY A SEPARATE IRRIGATION ZONE THAN LOW WATER NEED AREAS, SUCH AS PLANTER BEDS, OR MULCHED AREAS WITH TREES. IN NO CASE, SHALL ANY PLANTED VEGETATION AREA BE MORE THAN 50' FROM A WATER SUPPLY HOSE BIBB.
- IRRIGATION SYSTEM MUST BE OPERATED BY AN IRRIGATION CONTROLLER CAPABLE OF DIFFERENTIATING BETWEEN THE SCHEDULES OF HIGH AND LOW WATER DEMAND AREAS. CONTROLLERS MUST HAVE MULTIPLE CYCLES START CAPACITY AND A FLEXIBLE CALENDER PROGRAM ABLE TO BE SET TO COMPLY WITH LOCAL OR WATER MANAGEMENT DISTRICT IMPOSED RESTRICTIONS.
- THE SYSTEM MUST BE EQUIPPED WITH A RAIN SENSOR DEVICE OR SWITCH WHICH WILL OVERRIDE THE IRRIGATION CYCLE OF THE SPRINKLER SYSTEM WHEN ADEQUATE RAINFALL HAS OCCURRED. GROUND MOISTURE SENSING DEVICES ARE ENCOURAGED WHERE APPROPRIATED.
- THE SOURCE OF IRRIGATION WATER FOR LANDSCAPING WILL BE THE ONSITE WELL.
- IN ORDER TO COMPLY WITH SECTION 4.01.05.A OF HILLSBOROUGH COUNTY LAND DEVELOPMENT CODE TO MINIMIZE SOIL EROSION, PROPOSED LAND ALTERATION ACTIVITIES SHALL NOT UNNECESSARILY REMOVE EXISTING VEGETATION AND ALTER EXISTING TOPOGRAPHY. ADEQUATE PROTECTION MEASURES (I.E. HAY BALES, BARRIERS, SODDING AND SANDBAGGING) SHALL BE PROVIDED, AS NECESSARY, TO MINIMIZE EROSION AND DOWNSTREAM SEDIMENTATION CAUSED BY SURFACE WATER RUN-OFF ON EXPOSED LAND SURFACES.
- ANY AREAS SUBJECT TO EROSION MUST BE ADEQUATELY STABILIZED WITH VEGETATIVE MATTER THAT WILL WITHIN A REASONABLE TIME FRAME, DETER SOIL DISTURBANCE. SODDING, PLUGGING, SPRIGGIN OR SEEDING IS ACCEPTABLE FOR STABILIZATION; HOWEVER, SODDING MAY BE REQUIRED IN AREAS OF EROSION-PRONE SOILS OR WHERE SLOPES ARE GREATER THAN 5:1. VEGETATION OTHER THAN GRASS IS ACCEPTABLE UNLESS OTHERWISE SPECIFIED.
- FOR COMMERCIAL SITE DEVELOPMENT PROJECT, NO MORE THAN 50% OF THE LANDSCAPED AREA MAY BE PLANTED WITH SHALLOW-ROOTED (I.E. ST. AUGUSTINE) TURF GRASS VARIETIES. THESE TURF GRASS VARIETIES SHALL BE CONSOLIDATED IN AND LIMITED TO AREAS THAT ARE PROVIDED WITH CENTRAL AUTOMATIC IRRIGATION SYSTEMS.
- INSTALL ALL IRRIGATION LINES/EQUIPMENT BY HAND WITHIN THE DRIPLINE OF ANY EXISTING TREES ON THE PROJECT SITE. NO CUTTING OF ROOTS SHALL BE ALLOWED.
- INSTALL TREE BARRICADES TO THE FULLEST EXTENT OF THE DRIP LINE OF ALL TREES AS POSSIBLE AND/OR TO THE MAXIMUM LIMIT OF IMPROVEMENT(S) AS POSSIBLE. DO NOT INSTALL TREE BARRICADES (SPECIFICALLY SILT FENCING MATERIAL) BY TRENCHING WITHIN THE DRIPLINE OF EXISTING TREES.
- SHRUBBERY USED FOR SCREENING SHALL BE A MINIMUM HEIGHT OF 24" AND SHALL BE SPACED 3' O.C.
- ALL LANDSCAPING MATERIAL MUST BE FLORIDA GRADE #1 OR BETTER QUALITY.
- THE CONSTRUCTION OF ALL ABOVE GROUND UTILITY APPURTENANCES VISIBLE FROM PUBLIC RIGHT-OF-WAY SUCH AS PEDESTALS, UTILITY METERS, TRANSFORMERS, BACK-FLOW PREVENTION DEVICES, ETC FOR NEW DEVELOPMENT OR REDEVELOPMENT ACTIVITIES SHALL CONFORM TO SCREENING REQUIREMENTS AS OUTLINED IN SECTION 6.08.06.C.10 OF THE LAND DEVELOPMENT CODE. PLANT LOCATION MUST BE CONSIDERATE OF REQUIRED SPATIAL SEPARATIONS FROM A FIRE FLOW PROTECTION APPLIANCE IN ACCORDANCE TO THE UNIFORM FIRE CODE.



LOCATION MAP

GENERAL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS FROM THE OWNER PRIOR TO COMMENCEMENT OF CONSTRUCTION AND THOROUGHLY REVIEWING AND UNDERSTANDING ALL PERMIT CONDITIONS. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS THE PERMITS. ANY ADDITIONAL CONSTRUCTION/BUILDING PERMITS REQUIRED TO EXECUTE/COMPLETE THE WORK SHOWN IN THESE DOCUMENTS SHALL BE OBTAINED BY THE CONTRACTOR.
- ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO THE LATEST EDITION OF HILLSBOROUGH COUNTY LAND DEVELOPMENT CODE AND ALL COUNTY TECHNICAL STANDARDS.
- ALL ELEVATION DATA IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM (NGVD) OF 1929.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH SUBCONTRACTORS AND OTHER PUBLIC OR PRIVATE UTILITIES CONSTRUCTING FACILITIES WITHIN THE PROJECT LIMITS.
- THE CONTRACTOR SHALL SOLID SOD ALL SLOPES STEEPER THAN 5:1 AND WITHIN COUNTY/FOOT R/W, AND SEED AND MULCH ALL OTHER AREAS DISTURBED BY CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN SOD/SEED AND MULCH UNTIL STABILIZATION HAS OCCURRED.
- CONTRACTOR SHALL CONTACT THE ENGINEER AND/OR OWNER PRIOR TO ANY CONSTRUCTION ACTIVITY THAT MAY DAMAGE OR OTHERWISE AFFECT TREES.
- EXISTING UNDERGROUND UTILITY LINES SHOWN ON THE DRAWINGS WERE TAKEN FROM RECORD DRAWINGS AND DOCUMENTS FURNISHED BY OTHERS, AND NOT FIELD VERIFIED. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES WHICH MAY BE AFFECTED BY THE PROPOSED CONSTRUCTION, PRIOR TO ACTUAL CONSTRUCTION. THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED IF A CONFLICT EXISTS BETWEEN ACTUAL FIELD CONDITIONS AND THESE PLANS. CALL SUNSHINE STATE ONE CALL AT 1-800-432-4770 MIN. 48 HOURS BEFORE DIGGING.
- THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION, INCLUDING TESTING, WITH ENGINEER AND APPROPRIATE CITY OF CLEARWATER INSPECTORS IN ACCORDANCE WITH HILLSBOROUGH COUNTY REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY PERMITS THAT IS NOT PROVIDED BY THE ENGINEER OR OWNER. THESE PERMITS MAY BE ROAD CROSSING, ONSITE PIPING PERMIT, UTILITY, SITE CLEARING, AND ALL PERMITS FROM THE GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE PROJECT SITE.

- ALL PAVEMENT CUT/FILLING SHALL MEET THE FOLLOWING REQUIREMENTS:
 - COMPACTED TO A DENSITY OF NOT LESS THAN 98% PER ASTM D 1557-70.
- THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED UPON.
- EROSION / SEDIMENTATION CONTROL

CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (HAY BALES OR SILTATION CURTAIN) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS AND WATERWAYS. IN ADDITION CONTRACTOR SHALL PLACE STRAW, MULCH OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT THE SITE. IF, IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR VEHICULAR TRAFFIC, THE CONTRACTOR IS TO REMOVE AND CLEAN TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES.



SITE PREPARATION
AND EARTHWORK NOTES

1. EXCAVATION

CONTRACTOR SHALL PROVIDE SHORING, SHEETING, AND BRACING AS MAY BE NECESSARY TO PROPERLY ACCOMPLISH THIS WORK. UNDERGROUND UTILITIES TO REMAIN FROM DAMAGE, SHOULD ANY UTILITIES BE ENCOUNTERED THAT ARE NOT INDICATED ON THE PLANS NOTIFY THE OWNER'S REPRESENTATIVE.

- DISPOSAL: SURPLUS MATERIAL FROM EXCAVATIONS, TRASH, DEBRIS AND MATERIALS RESULTING FROM CLEARING, GRUBBING, AND OTHER OPERATIONS SHALL BECOME THE PROPERTY OF CONTRACTOR AND SHALL BE DISPOSED OF BY REMOVING FROM THE SITE.
- CLEARING AND GRUBBING: CLEAR AND GRUB TO REMOVE STUMPS, ROOTS, TREES, VEGETATION, ORGANIC MATERIALS, EXISTING PAVEMENT, STRUCTURES AND OTHER OBSTRUCTIONS TO THE WORK. ALL ORGANIC SOILS OR MUCK SHALL BE REMOVED AND BACKFILLED WITH SUITABLE MATERIALS.

STRIP THE TOPSOIL FROM ALL AREAS WITHIN THE LIMITS OF CLEARING AND GRUBBING AND STOCKPILE ON THE SITE. TOPSOIL MAY BE SPREAD OVER AREAS OUTSIDE BUILDING AND PAVING LINES UPON COMPLETION OF ROUGH GRADING.

2. GRADING

GRADE THE SITE TO THE FINISHED CONTOURS INDICATED. IMMEDIATELY BEFORE REQUESTING FINAL INSPECTIONS, CHECK THE LINES AND DRESS TO THE PROPER CONTOURS. ALL AREAS ARE TO BE STABILIZED. THESE AREAS ARE TO BE MAINTAINED UNTIL ACCEPTANCE BY OWNER. WHEN SOD, PLANT BEDS, GRAVEL AREAS AND THE LIKE ARE INDICATED ON LANDSCAPE DRAWINGS OR SPECIFIED, MAKE ALLOWANCES WHEN ROUGH GRADING FOR THE FINISHED GRADES IN THESE AREAS.

- BORROW: SUITABLE EXCAVATED MATERIAL, AS DETERMINED BY THE OWNER'S REPRESENTATIVE, MAY BE USED FOR GRADING. PROCURE ADDITIONAL MATERIALS, WHERE NECESSARY, FROM BORROW PITS APPROVED BY THE OWNER'S REPRESENTATIVE AND FURNISH AT NO ADDITIONAL COST TO THE OWNER. BORROW MATERIALS SHALL HAVE PLASTIC INDEX OF SIX (6) OR LESS WITH A MAXIMUM OF 20 PERCENT PASSING A 200 SIEVE.

- COMPACTION: AREAS OUTSIDE OF BUILDING AND PAVING LINES SHALL BE COMPACTED TO 90 PERCENT OF MAXIMUM DENSITY (ASSHTO T-180) AT OPTIMUM MOISTURE (ASTM D 1556).

PAVING AND DRAINAGE
CONSTRUCTION NOTES

1. REPORT OF SUBSURFACE CONDITIONS

THE ENGINEER DISCLAIMS ALL RESPONSIBILITY FOR FINDINGS AND INTERPRETATIONS EXPRESSED IN THE REPORT BY THE TESTING LABORATORY. CONTRACTOR SHALL MAKE WHATEVER SUBSURFACE INVESTIGATIONS HE DEEMS NECESSARY TO SATISFY HIMSELF AS TO THE ACTUAL FIELD CONDITIONS.

PREPARED BY

TAMPA CIVIL DESIGN

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APRIL 2010

<p>OWNER: 8751 MAISLIN VENTURE , LLLP 120 WOODBINE STREET BERGENFIELD, NJ 07621</p>	<p>CIVIL ENGINEER: TAMPA CIVIL DESIGN PO BOX NO. 1787 LUTZ, FL 33548-1787 (813) 406-5095 CONTACT: JEREMY COUCH, P.E.</p>
<p>SURVEYOR: JOHN MELLA & ASSOCIATES, INC. 5804 N. 22ND STREET TAMPA, FL 33610 (813) 232-9441</p>	<p>CONTRACTOR: MILLER CONTRACTING, INC 9801 LELLA AVENUE TAMPA, FL 33615 (813) 886-6621 CONTACT: JAN MILLER WWW.CONTRACTINGFL.COM</p>

PARKING CALCULATIONS

EXISTING BUILDING REQUIREMENTS	
27,881 SF WHOLESALE DISTRIBUTION X 1 SP/1000 SF	= 28 SPACES
PROPOSED BUILDING REQUIREMENTS	
11,000 SF WAREHOUSE USE X 1 SP/1000 SF	= 11 SPACES
TOTAL REQUIRED (ENTIRE SITE)	= 39 SPACES
PARKING PROVIDED	= 43 SPACES (2 ADA)

SITE DATA

	EXISTING	PROPOSED	TOTAL
TOTAL AREA	257,896 SF (5.92 AC)	257,896 SF	257,896 SF (100.00%)
BUILDING AREA	27,881 SF	11,000 SF	38,881 SF (15.08%)
PERVIOUS AREA	71,688 SF	0 SF	66,243 SF (25.69%)*
PAVEMENT AREA	119,806 SF	6,882 SF	114,251 SF (44.30%)*
POND AREA	38,521 SF	0 SF	38,521 SF (14.94%)
ZONING	IPD-1 89-0002 MM 90-04		
LAND USE	INDUSTRIAL		
DATUM	1929 N.G.V.D.		

*PAVEMENT REDUCED WHERE BUILDING BUILT OVER EXISTING LOT

LEGAL DESCRIPTION

LOTS 1 AND 2, BLOCK 3 OF U.S. 301 INDUSTRIAL PARK ADDITION, ACCORDING TO MAP OR PLAT THEREOF AS RECORDED IN PLAT BOOK 59, PAGE 17 OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA.

FOLIO: 038252.0188

ZONING NOTES

REQUIRED BUFFER

PER 17.6 (H) BUFFERING AND SCREENING TABLE 1 A TYPE B BUFFER IS REQUIRED BETWEEN GROUP V (TECO EASEMENT) AND GROUP V1 (INDUSTRIAL USE).

PER TABLE 2 THE BUFFER WIDTH CAN RANGE FROM 15-40 FEET DEPENDING ON THE PLANTINGS IN THE BUFFER.

WE ARE CHOOSING A 25' BUFFER WIDTH THAT REQUIRES 6 PLANT UNITS

ADDITIONAL SETBACK FOR BUILDING HEIGHT

PER 17.6 (E) (1) A 1' ADDITIONAL SETBACK IS REQUIRED FOR EVERY 1' THAT THE BUILDING EXCEEDS 30' IN HEIGHT. PROPOSED BUILDING IS 35' HIGH WHICH REQUIRES AN ADDITIONAL 5' SETBACK.

25' BUFFER + 5' ADDITIONAL SETBACK = 30' SETBACK FROM WEST PROPERTY LINE.

UTILITY NOTES

A) THE CONTRACTOR WILL BE REQUIRED TO OBTAIN AND ONSITE PIPING PERMIT FOR THE ONSITE PIPING. CONTACT BOB LITTLETON AT THE HC BUILDING DEPARTMENT FOR INSPECTION REQUIREMENTS.

GENERAL NOTES

A) SOLID WASTE WILL BE PLACED IN EXISTING RELOCATED DUMPSTER

VERTICAL / HORIZONTAL SEPERATION NOTES WATER / SEWER

1. SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS SHOULD ALWAYS CROSS UNDER WATER MAINS, SANITARY SEWERS, FORCE MAINS AND STORM SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE WHENEVER POSSIBLE.

WHERE SANITARY SEWERS, FORCE MAINS AND STORM SEWERS MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE, BOTH THE SEWER AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT THE CROSSING. (DIP IS NOT REQUIRED FOR STORM SEWERS IF IT IS NOT AVAILABLE IN THE SIZE PROPOSED.) SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE LEAK FREE, AND MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT THE CROSSING.

WHERE THERE IS NO ALTERNATIVE TO SEWER PIPES CROSSING OVER THE WATER MAIN, THE CRITERIA FOR MINIMUM SEPARATION OF 18 INCHES BETWEEN LINES AND 10 FEET BETWEEN JOINTS SHALL BE REQUIRED.

ALL CROSSING SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING).

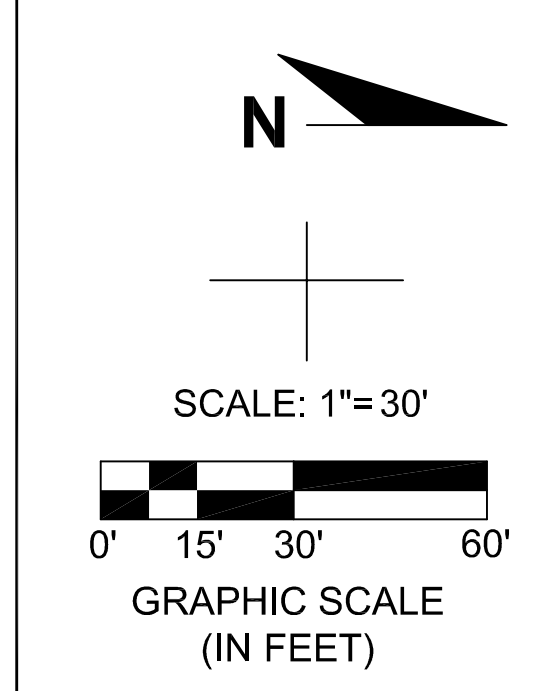
WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE, THE NEW PIPE SHALL BE CONSTRUCTED OF DIP AND THE CROSSING SHALL BE ARRANGED TO MEET THE REQUIREMENTS ABOVE.

2. A MINIMUM 10 FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.

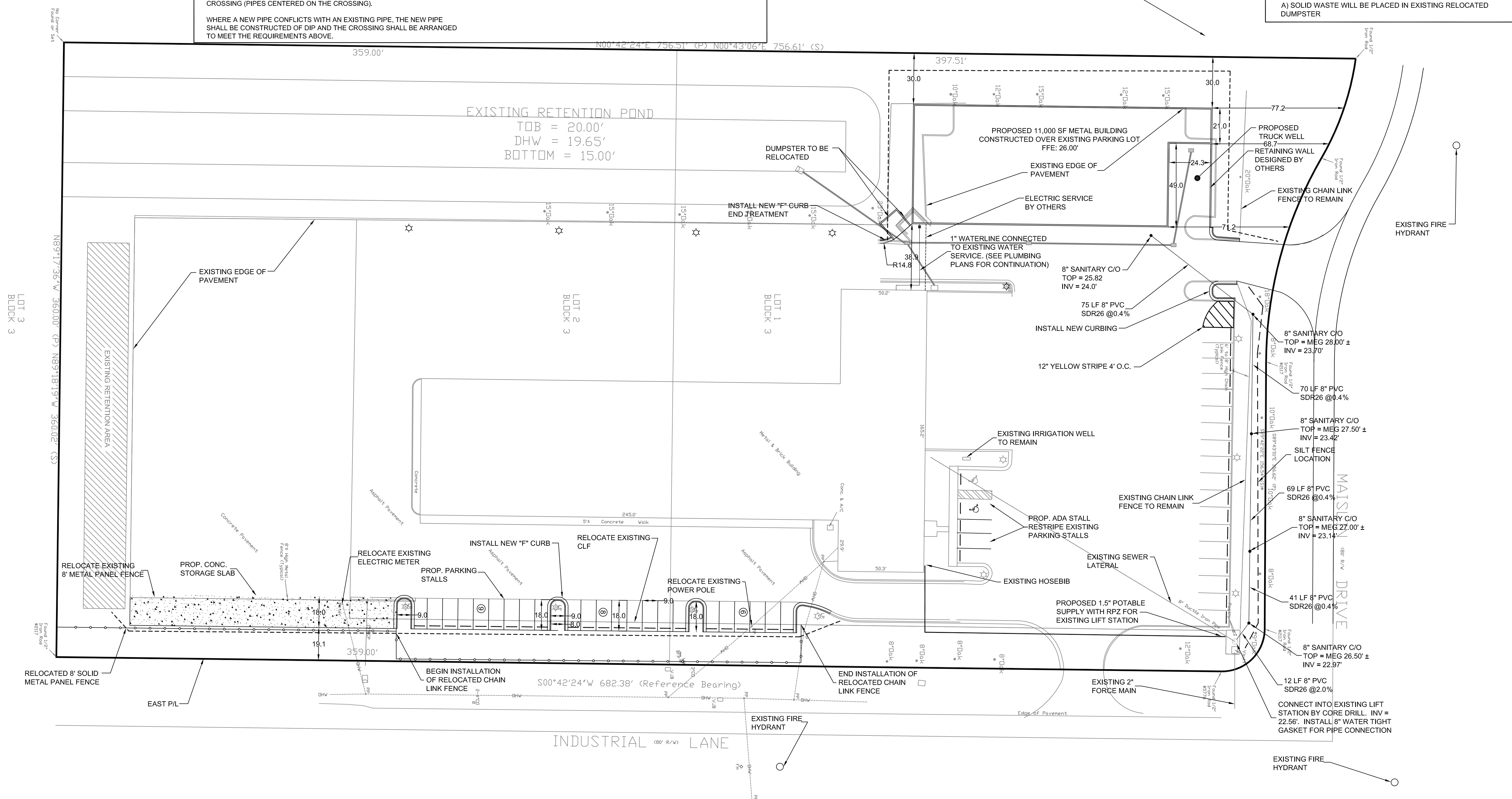
IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.

WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SEWER OR THE FORCE MAIN SHALL BE CONSTRUCTED OF DIP (IF AVAILABLE IN THE SIZE PROPOSED) WITH A MINIMUM VERTICAL DISTANCE OF 6 INCHES. THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (STAGGERED JOINTS).

3. ALL DIP SHALL BE CLASS 90 OR HIGHER. ADEQUATE PROTECTIVE MEASURES AGAINST CORROSION SHALL BE USED.



200' TECO EASEMENT OR2066 PAGE 104



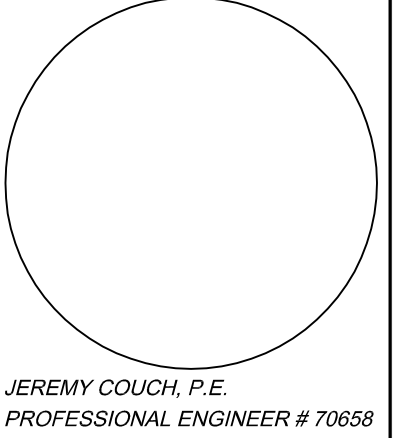
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PROJECT: 10-06
 PROPOSED BUILDING FOR
 FORTUNE PLASTICS & METAL INC
 8751 MAJUN DRIVE
 TAMPA, FL 33637
 STR 25268519E

CLIENT:
 MILLER CONTRACTING, INC
 9801 LELLA AVENUE
 TAMPA, FL 33615
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 LIC NO CG 00 21874

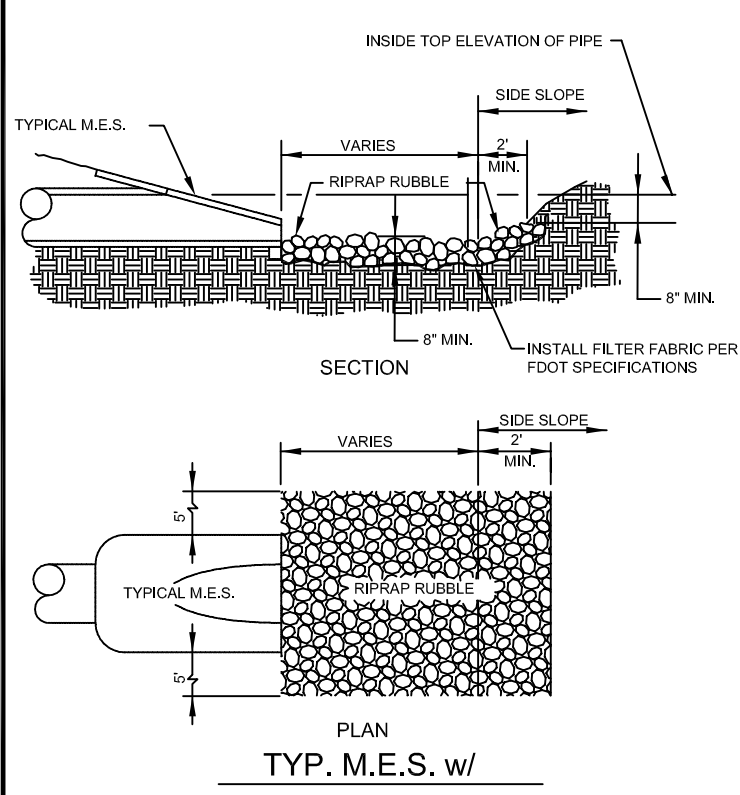
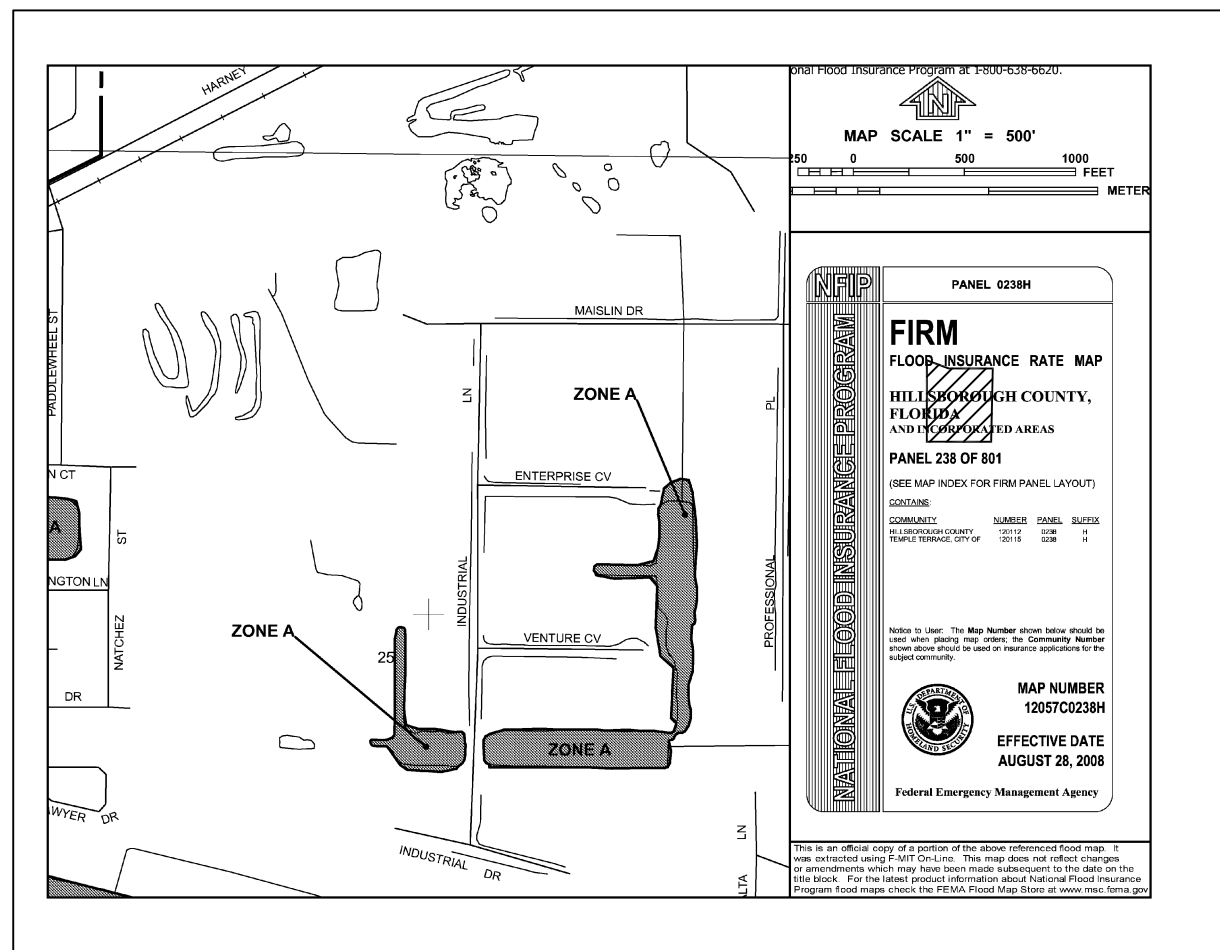
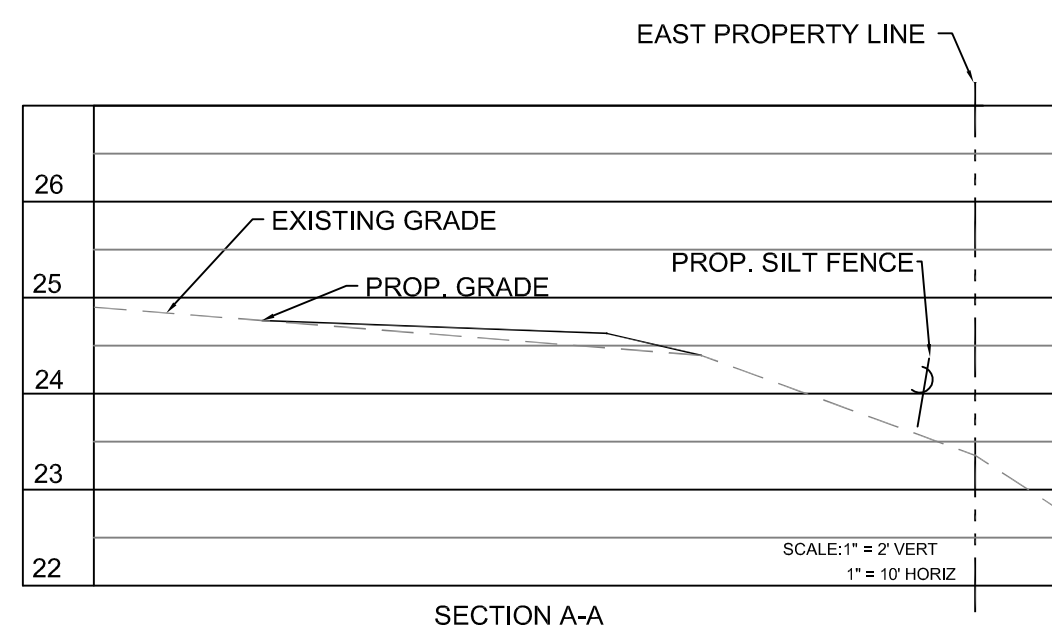
REVISION	DATE
DESIGN PLANS	2-15-10
REVISED PER COMMENTS	3-26-2010
REVISED PER COMMENTS	5-22-2010

DES: J.C.
 DRFT: J.O.



SITE / UTILITY PLAN

SHEET NO:
C-2



CONSTRUCTION SURFACE WATER MANAGEMENT FOR FORTUNE PLASTICS AND METAL INC.

A. PRIOR TO INITIATING THE CONSTRUCTION ACTIVITIES:

- THE CONTRACTOR MUST PROVIDE STAKED SILT SCREEN AROUND THE ENTIRE PROPERTY BOUNDARY. THE STAKED SILT SCREEN MUST BE INSTALLED STRICTLY AS PER FDOT STANDARD INDEX NO. 102.
- THE CONTRACTOR MUST PROVIDE A FLOATING TURBIDITY BARRIER AROUND THE AREA OF THE OUTFALL CONTROL STRUCTURE ACCORDING TO FDOT STANDARD INDEX NO. 103.
- THE CONTRACTOR MUST PROVIDE THE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH FDOT STANDARD INDEX NO. 102.

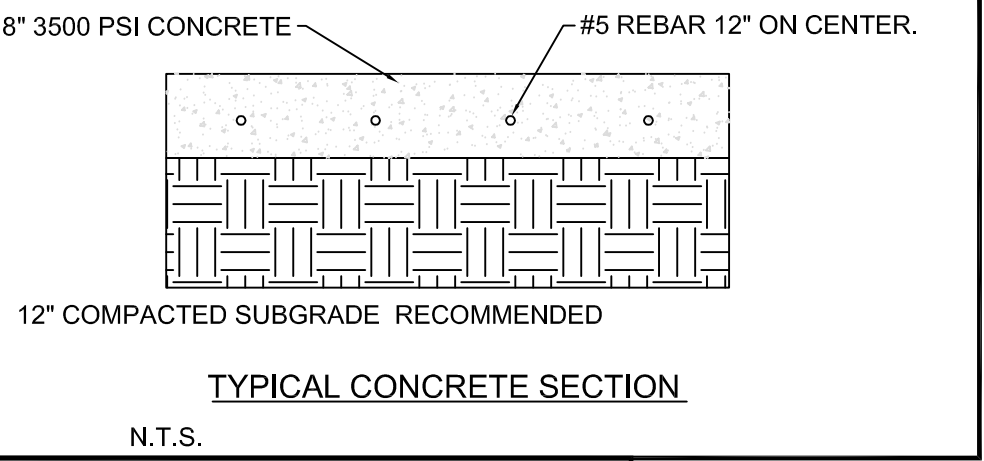
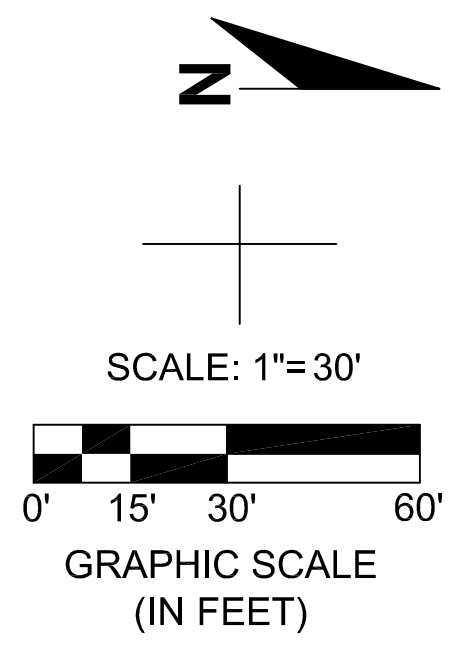
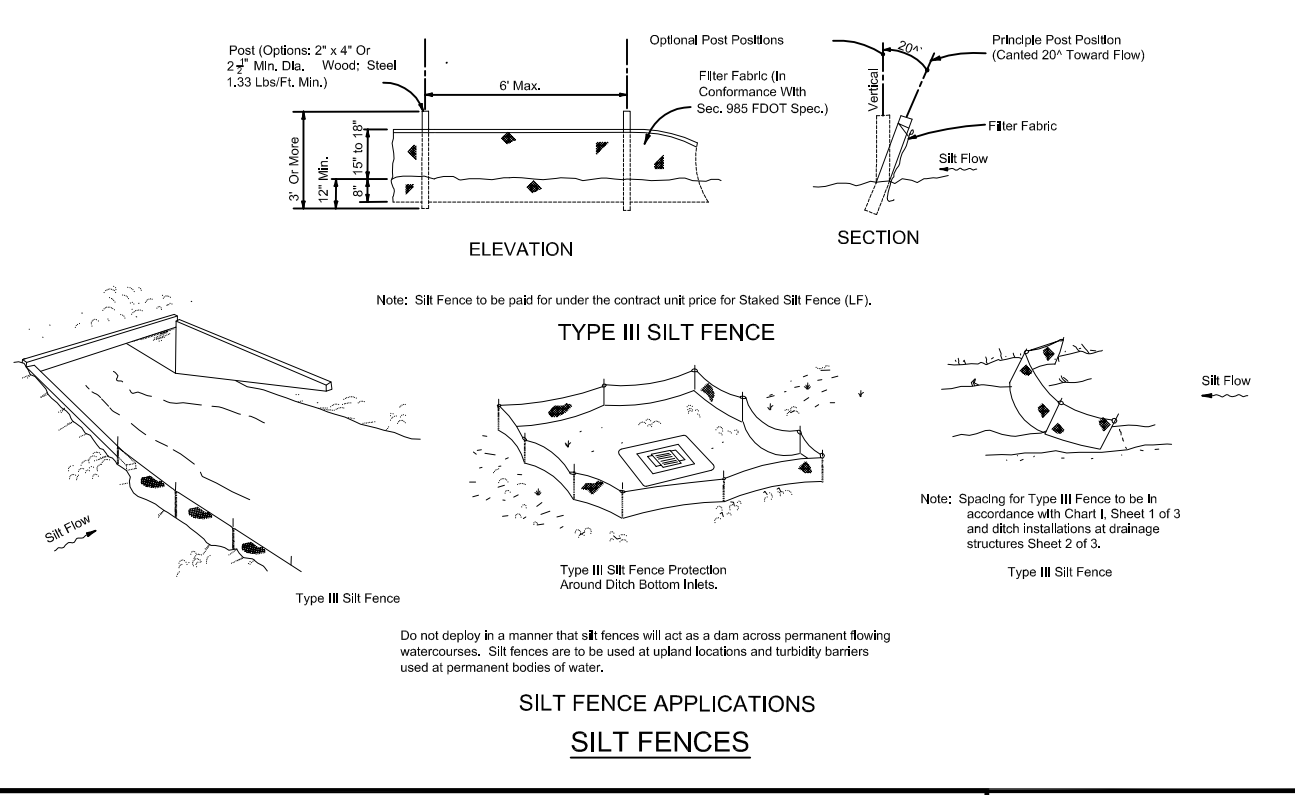
B. DURING CONSTRUCTION:

- INSTALL THE SEDIMENT BASIN AND TRASH RETAINER TO PREVENT TRANSPORT OFF SITE IN ACCORDANCE WITH FDOT STANDARD INDEX 101.
- CHECK SILT SCREEN AND TURBIDITY BARRIER DAILY AND AFTER A RAINFALL REINSTALL THE SILT SCREEN AND TURBIDITY BARRIER IF REQUIRED.

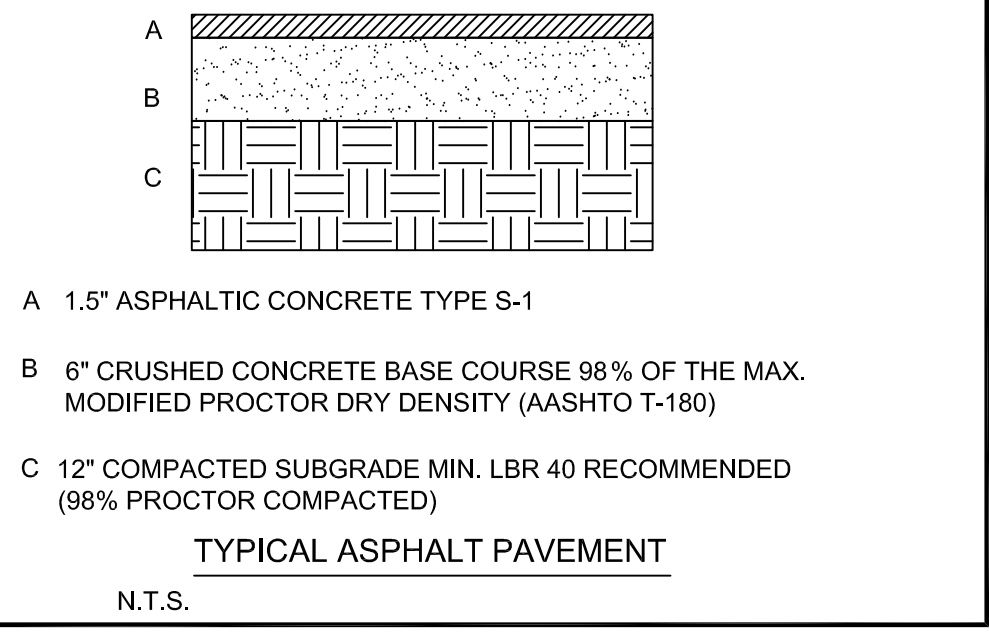
C. CONSTRUCTION CLOSE-OUT:

- SOD ALL SLOPES AND DISTURBED AREAS IMMEDIATELY.
- REMOVE SILT SCREEN AFTER ALL THE SLOPES ARE ESTABLISHED.

AGREED BY: 8751 MASLIN VENTURE, L.L.P. CERTIFIED BY: JEREMY COUCH, P.E.



RIPRAP RUBBLE		STRUCTURE SCHEDULE						
NO.	TYPE	STRUCTURE FDOT INDEX NO	TOP ELEV.	INV. ELEV.	TYPE	SIZE (IN)	LENGTH (FT)	SLOPE (%)
S-1	INLET TYPE C	232	21.92'	17.66'	ADS	15"	55	0.6
S-2	INLET TYPE C	232	25.80'	17.29'	ADS	15"	84	0.6
S-3	INLET TYPE C	232	25.20'	16.79'	ADS	18"	69	0.65%
S-4	INLET TYPE D	232	25.55'	16.34'	ADS	24"	76	0.54%
S-5	MES	232	--	15.93'	ADS	--	--	--
S-6	EXIST MES	232	--	21.78'	ADS	--	--	--

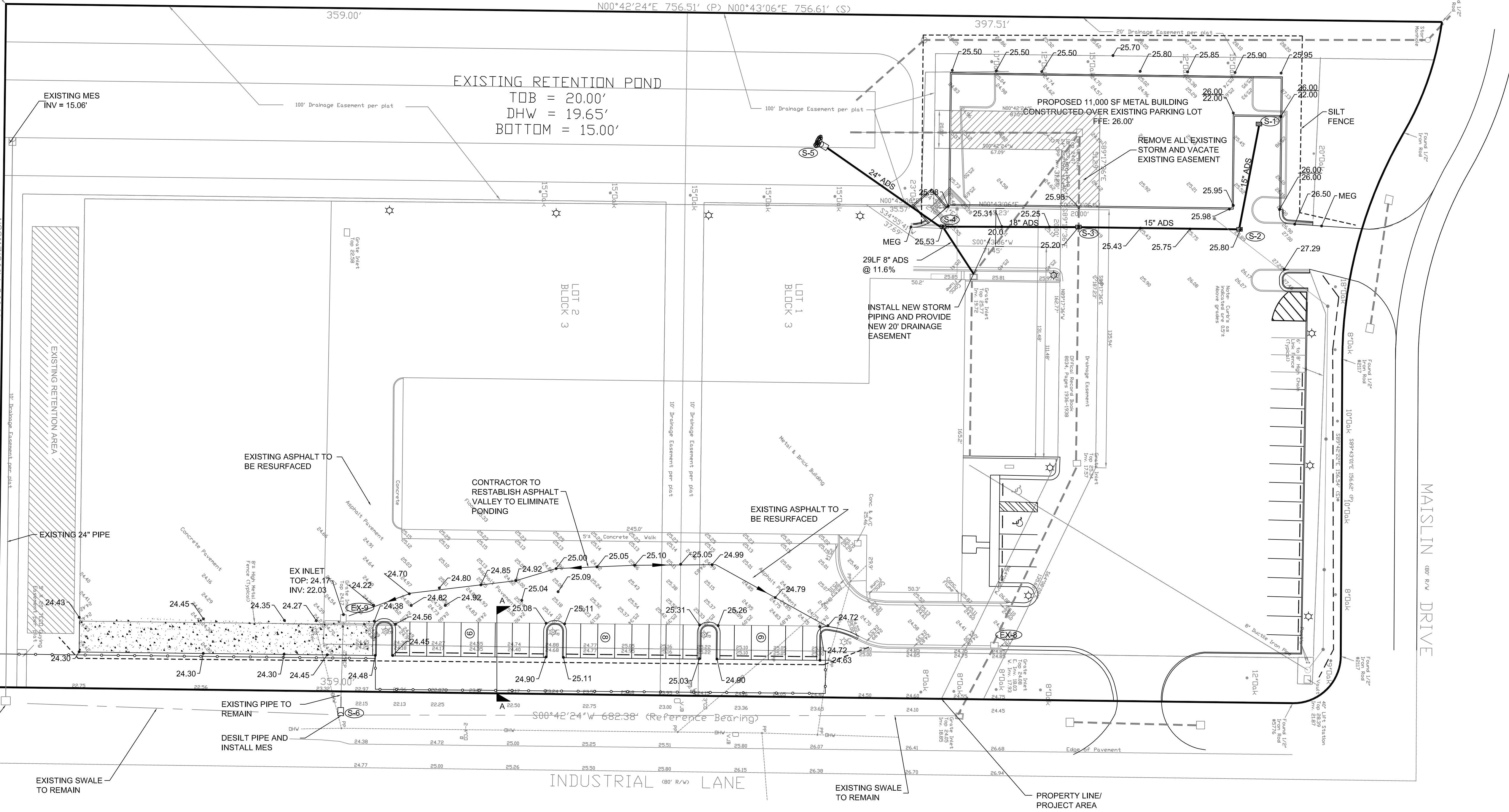
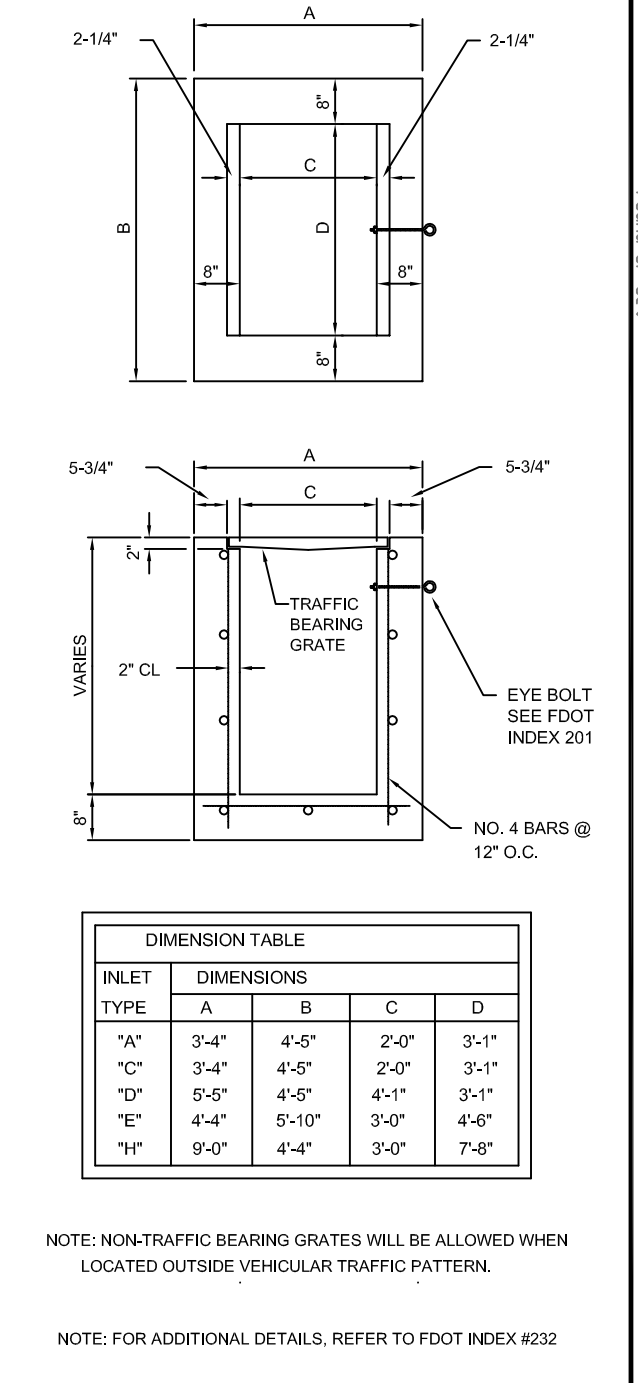


ELEVATIONS SHOWN ARE IN FEET AND REFER TO N.G.V.D. MEAN SEA LEVEL DATUM OF 1929. TO CONVERT ELEVATIONS SHOWN TO NAVD 1988 DATUM, SUBTRACT 0.89'.

ROOF IS SLOPED FROM WEST TO EAST. ALL ROOF RUNOFF WILL DRAIN ONTO THE PARKING AREA AND BE CONVEYED INTO THE RETENTION POND.

PROJECT IS LOCATED IN ZONE X ON FIRM MAP 12057C0238H DATED 8-28-2008

ALL CATCH BASINS TO HAVE BOTTOM INVERTS POURED



EXISTING FLOW PATHS ON EXISTING PAVEMENT TO REMAIN UNCHANGED. ALL NEW PAVEMENT TO FLOW TO PROPOSED TREATMENT SWALE.

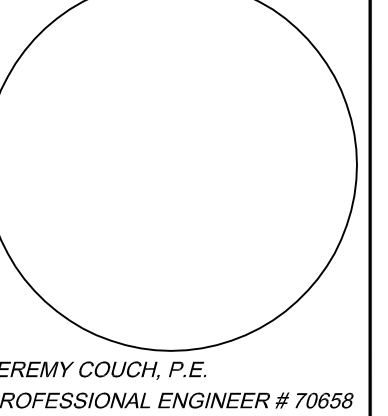
TAMPA CIVIL DESIGN
 PO BOX NO. 1787
 LUTZ, FL 33548-1787
 (813) 406-5685 PHONE
 (813) 482-9128 FAX
 WWW.TAMPACIVIL.COM

PROJECT: 10-06
 PROPOSED BUILDING FOR
 FORTUNE PLASTICS & METAL INC
 8751 MASLIN DRIVE
 TAMPA, FL 33637
 STR 2528S/19E

CLIENT:
 MILLER CONTRACTING, INC
 9801 LELLA AVENUE
 TAMPA, FL 33615
 813-886-6621
 WWW.CONTRACTINGFL.COM
 LIC NO CG CO 21874

REVISION	DATE
DESIGN PLANS	2-15-10
REVISED PER COMMENTS	3-26-10
REVISED PER COMMENTS	5-22-10

DES: J.C.
 DRFT: J.O.



GRADING PLAN

SHEET NO:
C-3

*SEE COVER SHEET FOR ADDITIONAL LANDSCAPE NOTES

LANDSCAPE NOTES

REQUIRED BUFFER PLANTINGS

250' LONG BUFFER REQUIRES 1 PLANT UNIT PER 100'

WE ARE USING PLANT UNIT ALTERNATE 1 WHICH IS 1 LARGE CANOPY TREE, 2 UNDERSTORY TREES, 3 LARGE SHRUBS

2.5 X 1 CANOPY TREE = 2.5 = 3 CANOPY TREES

2.5 X 2 UNDERSTORY TREES = 5 UNDERSTORY TREES

2.5 X 3 LARGE SHRUBS = 7.5 = 8 SHRUBS

6 PLANT UNITS (PER TABLE 2 25' BUFFER)

6 X 3 CANOPY TREES = 1.8 = 2 TREES

6 X 5 UNDERSTORY TREES = 3 UNDERSTORY TREES

6 X 7.5 LARGE SHRUBS = 4.5 = 5 LARGE SHRUBS

TOTAL PLANTINGS REQUIRED = 2 CANOPY TREES, 3 UNDERSTORY TREES, 5 LARGE SHRUBS.

WE NOW HAVE 5 LARGE LIVE OAK TREES (12" DIAMETER 30+ FEET HIGH) THAT WE WOULD LIKE TO SEE SURVIVE FOR THIS PLANTING GIVEN THE TECO EASEMENT AND NON DEVELOPMENT OF THE ADJACENT PROPERTY

LANDSCAPE LEGEND

*ALL LANDSCAPING MUST BE GRADE 1 OR BETTER

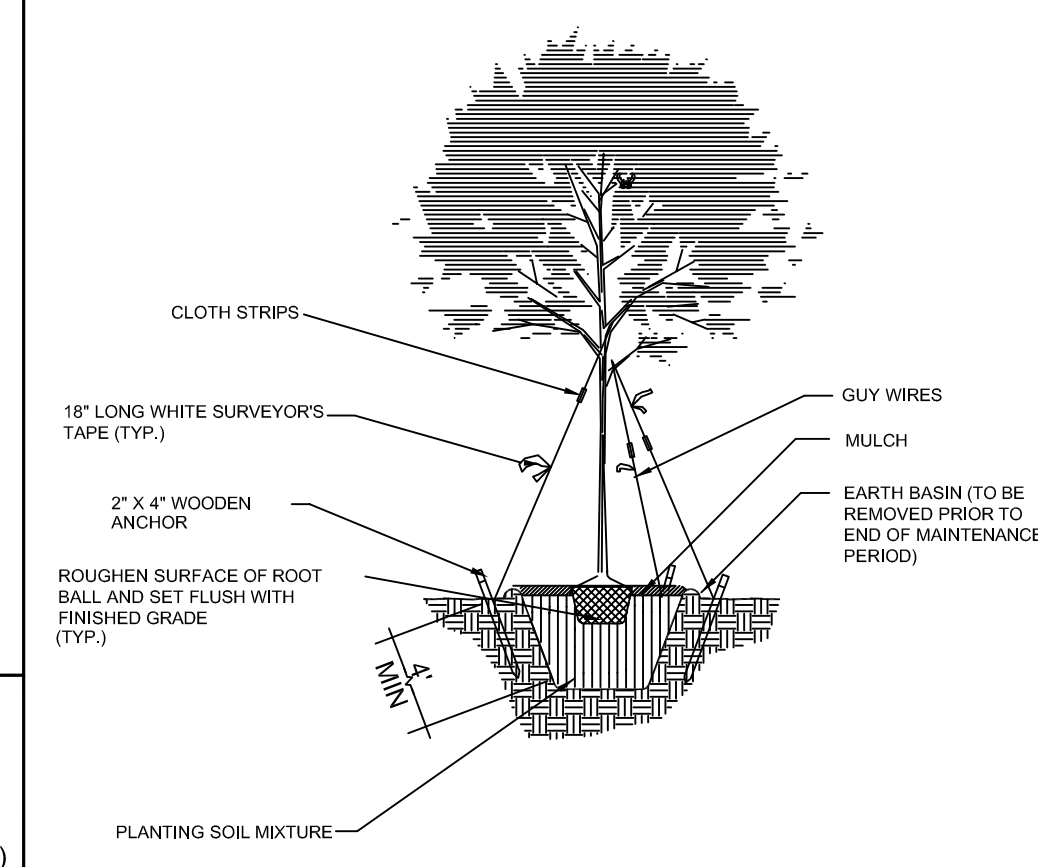
WALTER VIBURNUM MIN. 24" HIGH AT PLANTING 3' O.C. (79)

LIVE OAK 1" MIN. DBH, 10' HIGH, FLA. GRADE 1. (5)

CRAPE MYRTLE 1" MIN. DBH, 10' HIGH, FLA. GRADE 1. (6)

TREE TO BE REMOVED

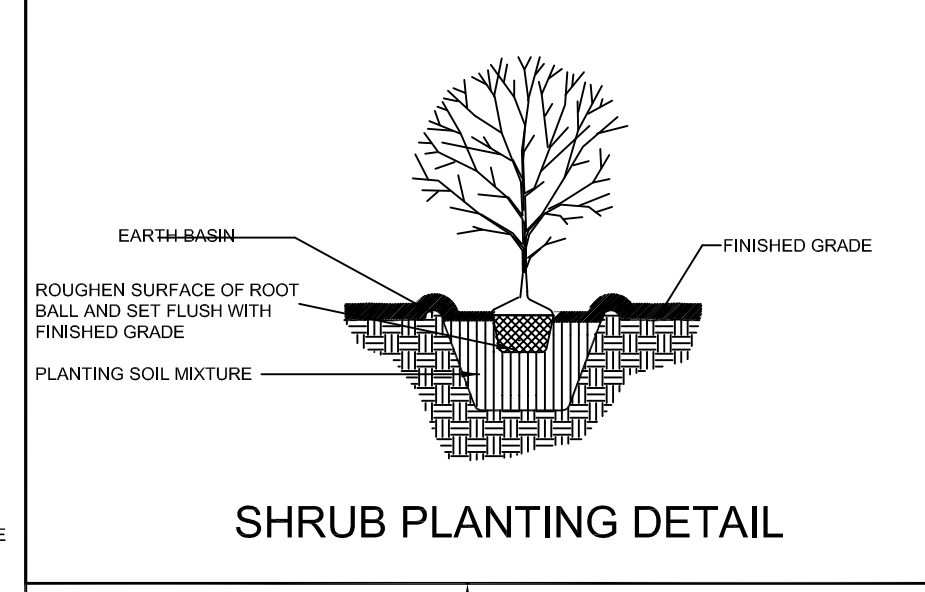
*GROUND COVER SHALL BE BAHIA GRASS *75% OF TREES MUST BE BE SHADE TREES



PROVIDE DOUBLE STRAND 12" GAUGE ANNEALED GALVANIZED STEEL GUYING WIRE. PROVIDE HOSE CHAFING GUARD OF 2 PLY REINFORCED GREEN RUBBER OR PLASTIC HOSE AND INSTALL SO THAT GUY WIRE DOES NOT CONTACT TRUNK OR BRANCHES

PROVIDE ROUGH SAWN WOOD TREE ANCHORS FREE FROM KNOTS, ROT, CROSS GRAIN, BARK, SPLITS OR OTHER DEFECTS WHICH WOULD IMPAIR THEIR STRENGTH. MINIMUM DIMENSIONS ARE 2" X 4" X 4' LONG

TREE STAKING DETAIL



SHRUB PLANTING DETAIL

PROTECTIVE BARRIER REQUIREMENTS AND SPECIFICATIONS FOR EXISTING TREES TO REMAIN

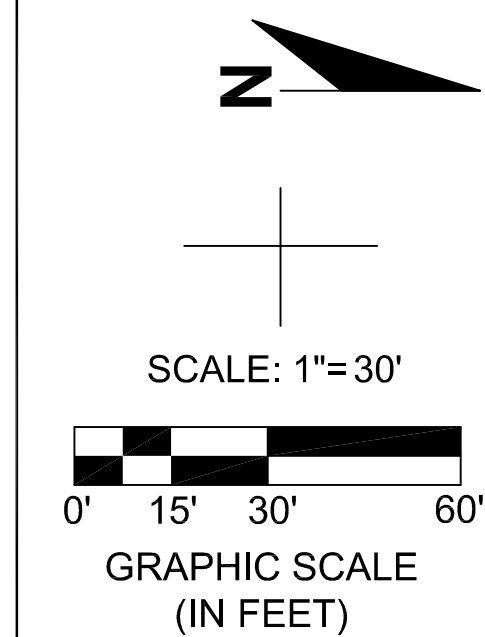
PROTECTIVE BARRIERS are used during land alteration and construction activities to protect trees and natural areas to be retained on a site.

PROTECTIVE BARRIERS must be erected around TREES to be retained within an area where land alteration and construction activities will occur as well as along NATURAL AREAS where such areas are adjacent to permitted land alteration or construction activities. A PROTECTIVE BARRIER must remain in place until the land alteration and construction activities are completed or until commencement of grade finishing and sodding. No ground disturbance shall occur within the barricaded area. The following represent the County's minimum protective barrier specifications:

- TREES** - To restrict access into the area within the CANOPY DISCIPLINE of a tree, a physical structure or fence that is placed around the tree at the CANOPY DISCIPLINE, except where land alteration or construction activities are approved within the CANOPY DISCIPLINE.
 - The CANOPY DISCIPLINE of a tree is the imaginary, vertical line that extends downward from the outermost tip of the tree's branches to the ground. Fig. A.
 - BARRIER SPECIFICATIONS FOR TREES:** Four corner upright stakes of no less than 2" x 2" lumber connected by horizontal members of no less than 1" x 4" lumber, or single stakes spaced at 5' intervals of no less than 2" x 2" lumber connected by silk screen fabric or material of comparable durability. Fig. B.
- NATURAL AREAS** - To restrict access into areas where land alteration and construction activities are not authorized a physical structure or fence that is 3 feet in height is placed along the perimeter of such areas.
 - BARRIER SPECIFICATIONS FOR NATURAL AREAS:** Upright stakes of no less than 2" x 2" lumber spaced no more than 25' apart and connected by three 8-gauge plastic raveling tape or equal material 4" x 1/2". Fig. C. Other methods of demarcation will be considered depending upon the characteristics of the site.

WHY A BARRIER:

- To protect all above ground portions of trees and other vegetation from mechanical damage.
- To protect root systems from compaction.
- To provide awareness of protected areas to equipment operators.



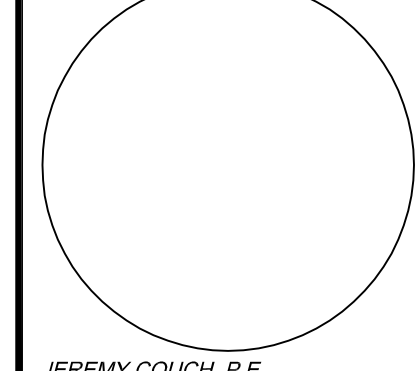
TAMPA CIVIL DESIGN
 PO BOX NO. 1787
 LUTZ, FL 33548-1787
 (813) 406-5685 FAX
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PROJECT: 10-06
 PROPOSED BUILDING FOR FORTUNE PLASTICS & METAL INC
 8751 MAISLIN DRIVE
 TAMPA, FL 33637
 STR 2526RS/19E

CLIENT:
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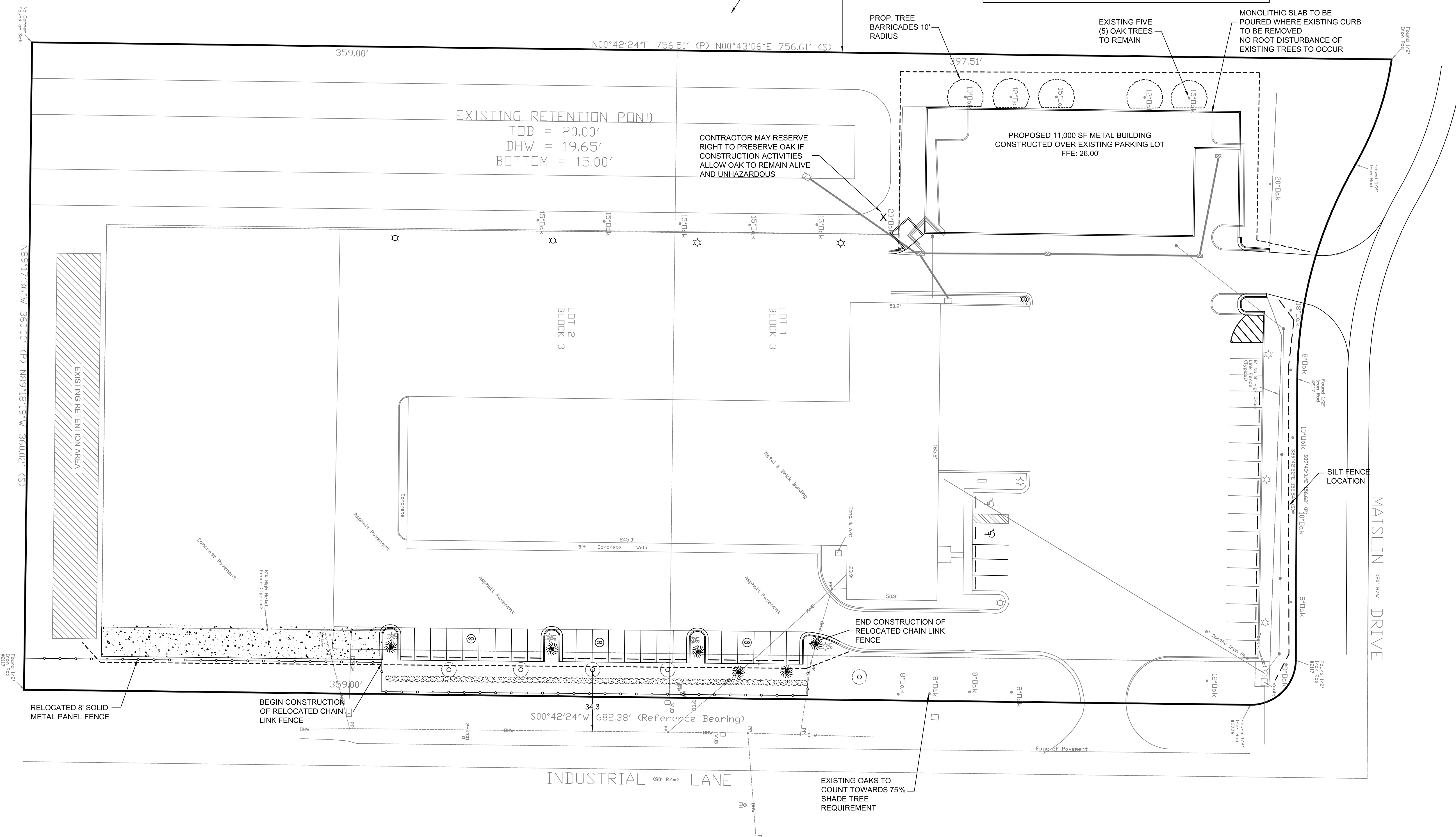
REVISION	DATE
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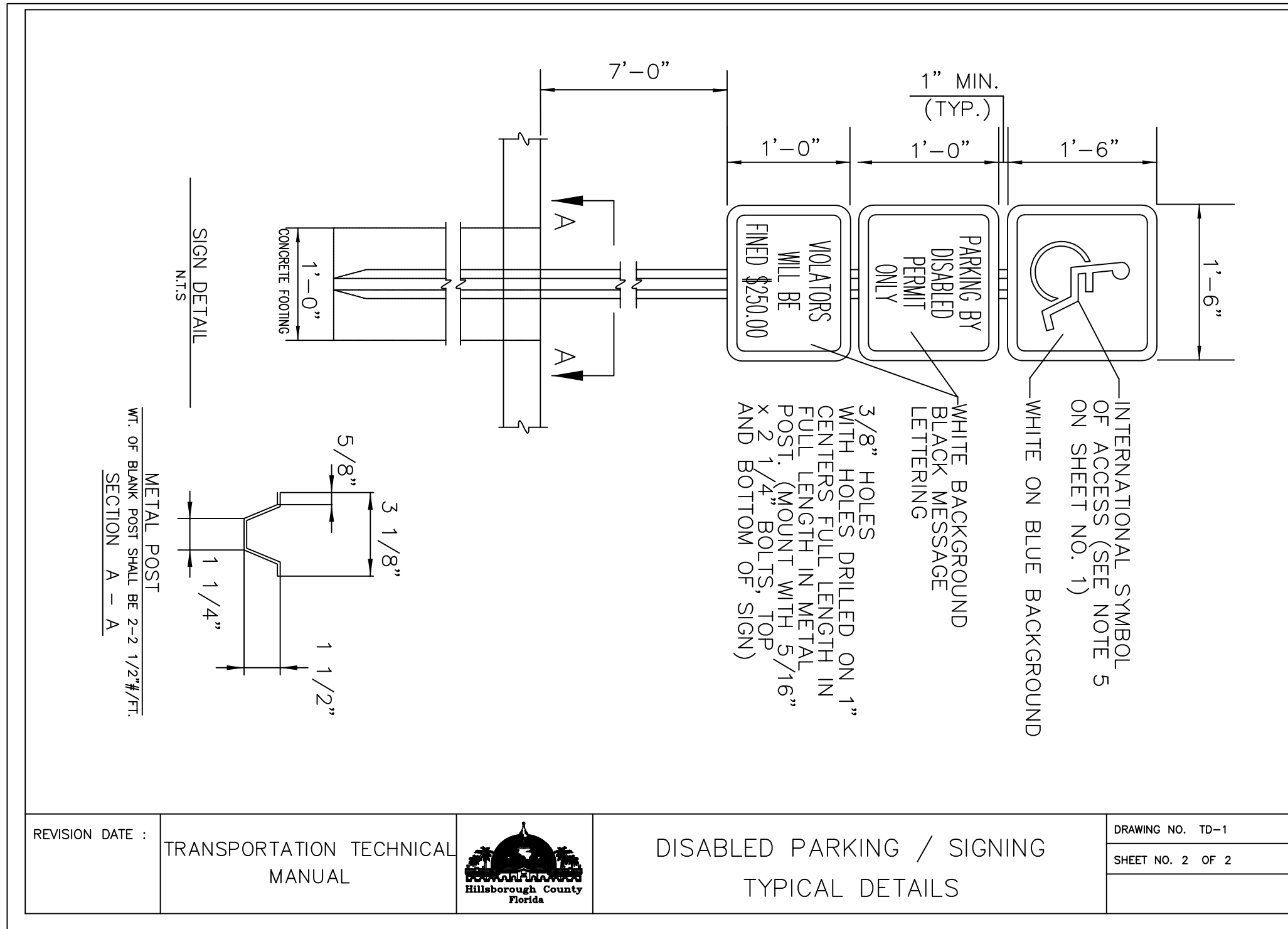
DES: J.C.
 DRFT: J.O.



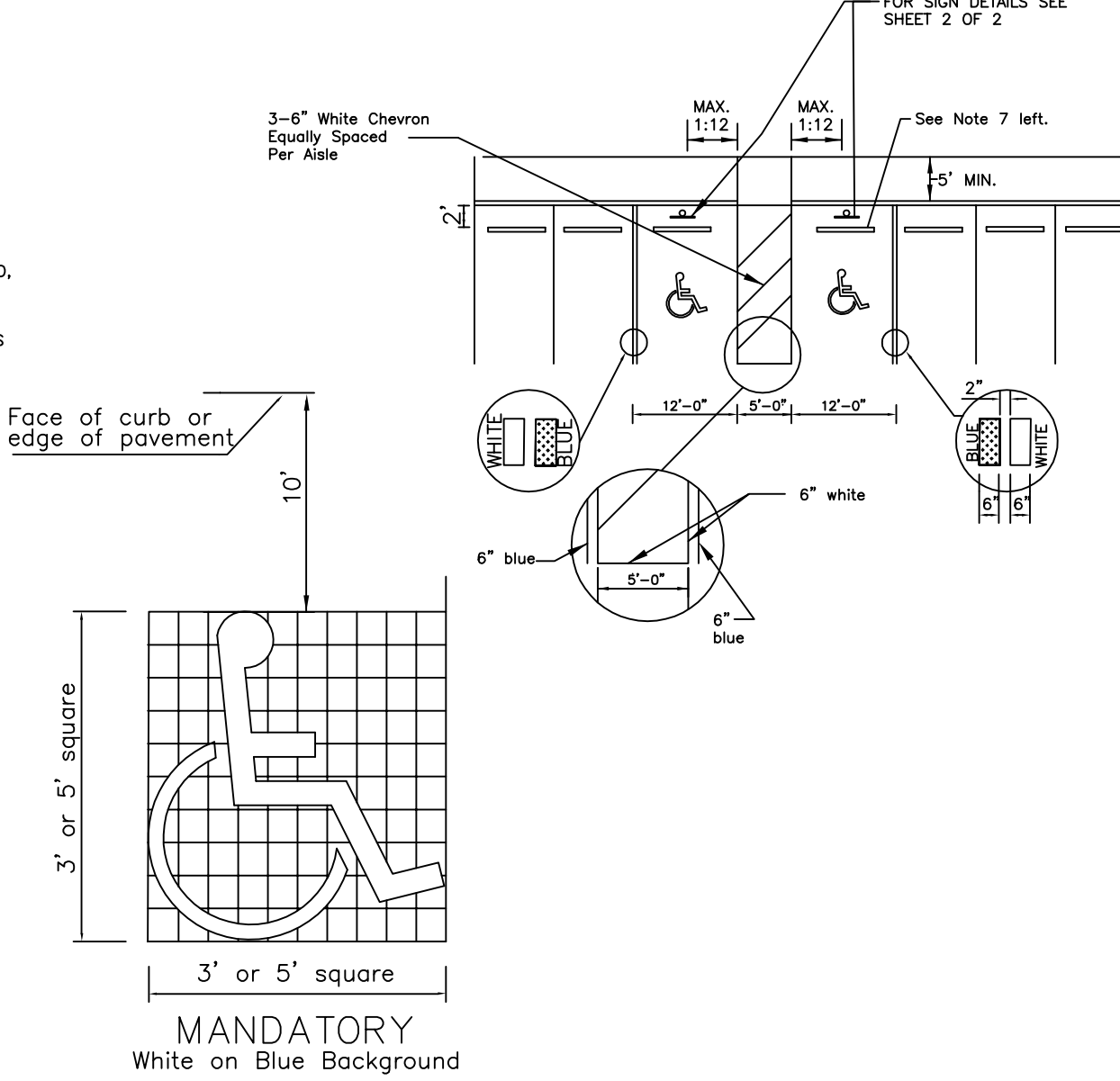
LANDSCAPE PLAN

SHEET NO:
C-4

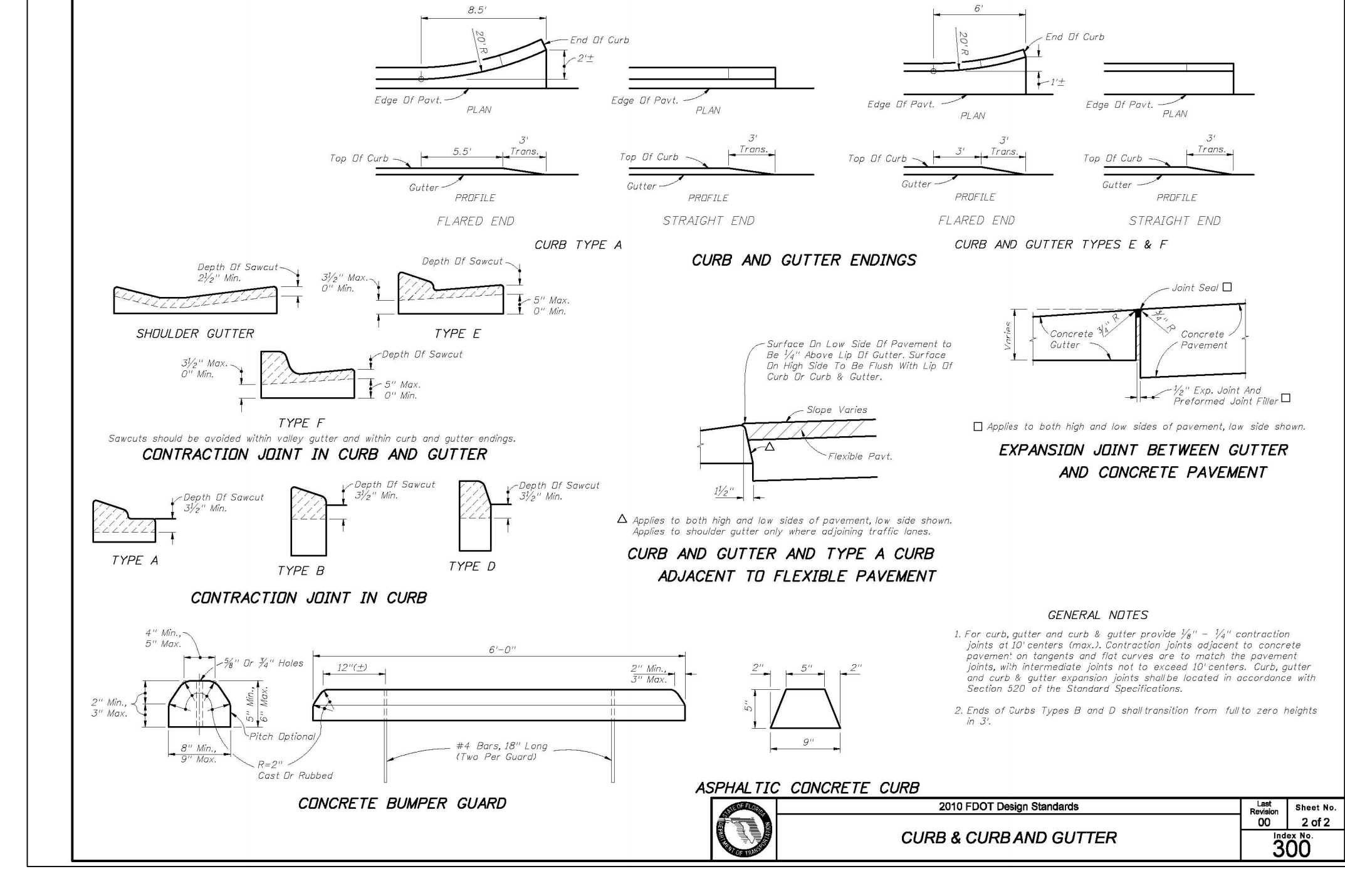
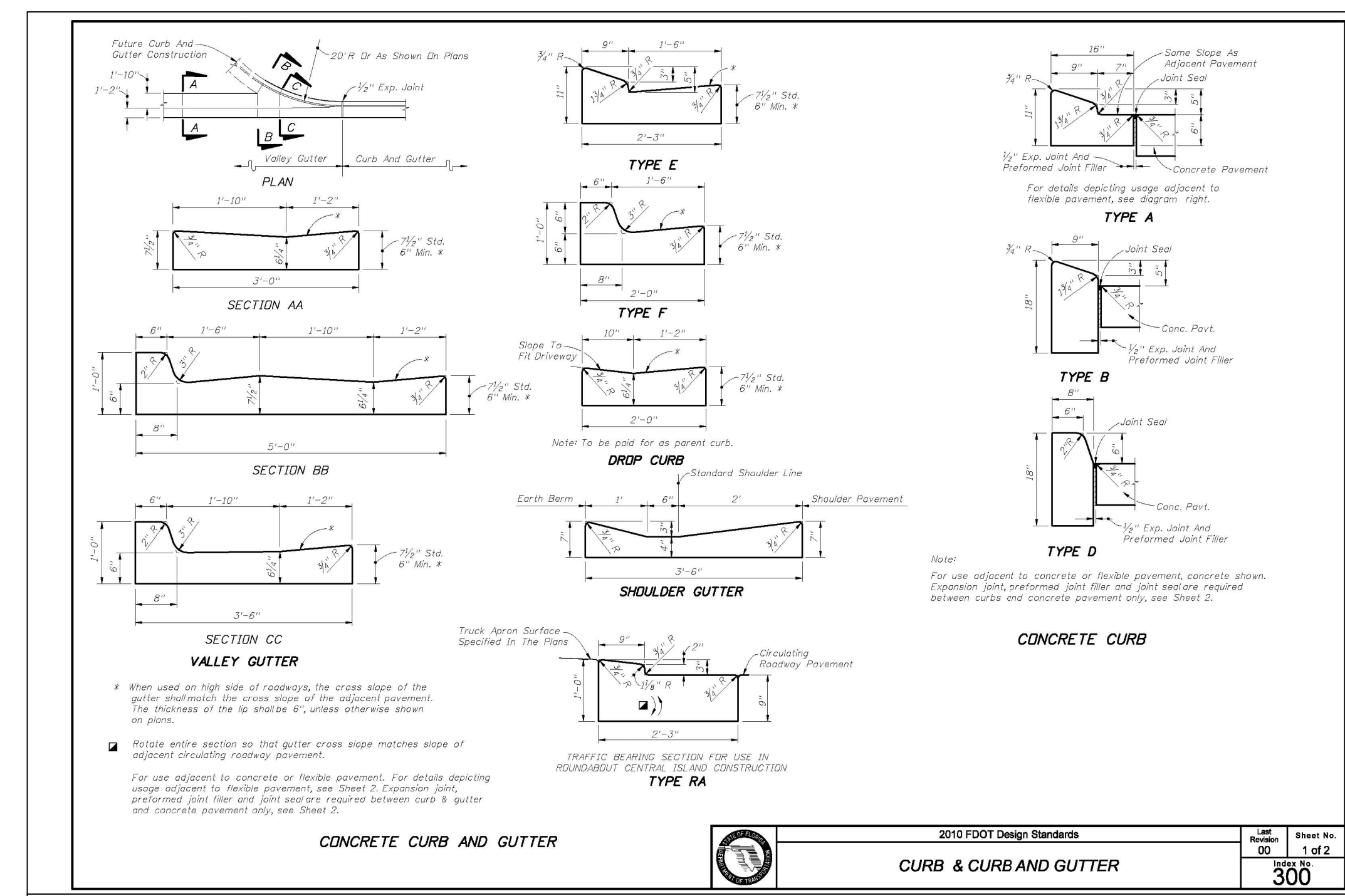




- NOTES**
1. METAL POST TO BE GALVANIZED. ALL BOLTS, NUTS, WASHERS AND SCREWS MUST BE RUSTPROOF.
 2. CONCRETE FOR FOOTING SHALL BE PORTLAND CEMENT AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I.
 3. SIGNS WILL BE FABRICATED BY USING REFLECTING COATING IN THE SYMBOL, MESSAGE AND BORDER APPLIED TO A SHEET ALUMINUM BACKING (ORB) IN THICKNESS.
 4. MESSAGE LETTERING SHALL BE UPPER CASE (BLACK/SERIES C) 1.5" HIGH IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, EXCEPT AS NOTED ON SHEET 2 OF 2.
 5. THE SYMBOL IS COMPOSED OF TWO ELEMENTS: A WHITE WHEELCHAIR FIGURE (WHICH SHOULD ALWAYS FACE RIGHT) ON A SQUARE BACKGROUND, INTERNATIONAL BLUE IN COLOR (FED. STD. 595c, COLOR #15180).
 6. SIGN POST SHALL BE MIN. 2'-0" CLEAR FROM BACK OF CURB.
 7. THE USE OF PROPERLY LOCATED BOLLARDS IN ACCESSIBLE PARKING SPACES ARE ACCEPTABLE SUBSTITUTES FOR REGULAR BUMPER GUARD.
 8. MINIMUM NUMBER OF ACCESSIBLE PARKING SPACES SHALL BE PER FLORIDA ACCESSIBILITY BUILDING CODE SECTION 4.6.3.



REVISION DATE : 12/08	TRANSPORTATION TECHNICAL MANUAL	DISABLED PARKING / MARKING TYPICAL DETAILS	DRAWING NO. TD-1 SHEET NO. 1 OF 2
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REVISION DATE : 12/08	TRANSPORTATION TECHNICAL MANUAL	DISABLED PARKING / MARKING TYPICAL DETAILS	DRAWING NO. TD-1 SHEET NO. 1 OF 2
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PROJECT: 10-06
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 STR 25285/19E

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REVISION	DATE
DESIGN PLANS	2-15-10
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REVISED PER COMMENTS	5-22-10

DES: J.C.
 DRFT: J.O.

JEREMY COUCH, P.E.
 PROFESSIONAL ENGINEER # 70658

TYPICAL DETAILS

SHEET NO:
C-5

NORTH



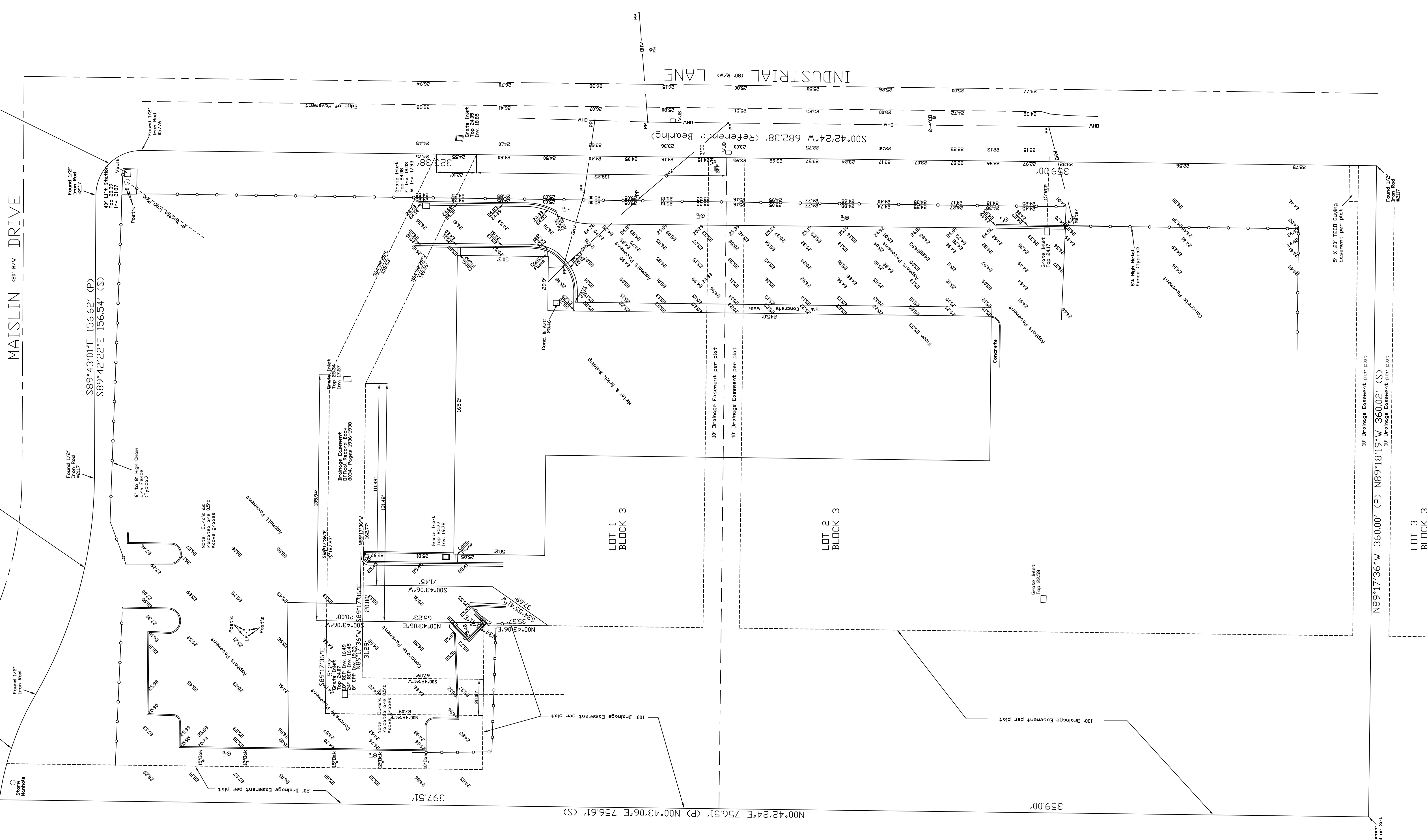
The survey depicted here is not covered by professional liability insurance.

Arc 62.08' (P) 6210' (S)
Radius 16000'
Chord 6169' (P) 6171' (S)
S70°59'53"E (P) S70°58'06"E (S)

Arc 124.97' (P) 124.99' (S)
Radius 24000'
Chord 12335' (P) 12358' (S)
S74°48'01"E (P) S74°48'20"E (S)

Arc 39.45' (P) 39.33' (S)
Radius 2500'
Chord 3549' (P) 3540' (S)
S44°30'19"E (P) S44°27'10"E (S)

S89°43'01"E 156.62' (P)
S89°42'22"E 156.54' (S)



Proposed easement to be dedicated:
A 20-foot drainage easement located in a portion of Lot 1, Block 3 of U.S. 301 INDUSTRIAL PARK ADDITION, Industrial Park Addition, as recorded in Plat Book 59, Page 17 of the Public Records of Hillsborough County, Florida, as a Point of Commencement, thence along the East line of Lot 1, North 00°42'24" East, 138.25 Feet, thence North 44°08'28" West, 140.56 Feet, thence North 11°48'00" West, 140.56 Feet, thence South 71°45 Feet, thence South 34°55'41" West, 37.69 Feet, thence North 00°43'06" East, 35.57 Feet, thence North 34°55'41" East, 2.12 Feet, thence North 00°43'06" East, 20.00 Feet, thence South 89°17'36" East, 20.00 Feet to the Point of Beginning.

Contains 232 square feet, more or less.
Portion of easement to be vacated:
A 20-foot drainage easement located in a portion of Lot 1, Block 3 of U.S. 301 INDUSTRIAL PARK ADDITION, Industrial Park Addition, as recorded in Plat Book 59, Page 17 of the Public Records of Hillsborough County, Florida, as a Point of Commencement, thence along the East line of Lot 1, North 00°42'24" East, 138.25 Feet, thence North 44°08'28" West, 140.56 Feet, thence North 11°48'00" West, 140.56 Feet, thence South 71°45 Feet, thence South 34°55'41" West, 37.69 Feet, thence North 00°43'06" East, 35.57 Feet, thence North 34°55'41" East, 2.12 Feet, thence North 00°43'06" East, 20.00 Feet to the Point of Beginning.

Contains 277 square feet, more or less.

- Legend:
- (P) - Plat
 - (S) - Survey
 - AC - Air Conditioner
 - BP - Air Conditioner Preventer
 - CD - Cleanout
 - CCP - Concrete
 - CPP - Corrugated Plastic Pipe
 - Inv. - Invert
 - LB - Licensed Business
 - LP - Light Pole
 - LS - Licensed Surveyor
 - PP - Power Pole
 - RCP - Reinforced Concrete Pipe
 - TECD - Tampa Electric Company Distribution Box
 - WM - Water Meter

Notes:
This Lot is described in zone "W" which is determined to be the "W" Flood Hazard Zone as defined by the National Flood Insurance Program. (Community Panel No. 1205700238H dated August 28, 2008)
Elevations shown are in feet and refer to N.G.V.D. Mean Sea Level Datum of 1929. To convert elevations shown to NAVD 1988 datum subtract 0.85 feet.
Bearings as indicated refer to Plat Book 59, Page 17 of the Public Records of Hillsborough County, Florida, as a Point of Commencement, thence along the East line of Lot 1, North 00°42'24" East, 138.25 Feet, thence North 44°08'28" West, 140.56 Feet, thence North 11°48'00" West, 140.56 Feet, thence South 71°45 Feet, thence South 34°55'41" West, 37.69 Feet, thence North 00°43'06" East, 35.57 Feet, thence North 34°55'41" East, 2.12 Feet, thence North 00°43'06" East, 20.00 Feet to the Point of Beginning.

No cap identification found on property corners except as indicated.
This property surveyed without the benefit of a title search for easements, additional rights-of-way or other encumbrances or record not shown hereon.
No underground or utility service investigation performed at this time except as indicated.
Trees as indicated are our interpretation and a certified arborist would need to be hired to precisely identify. Heights or drip line of trees not indicated at this time.

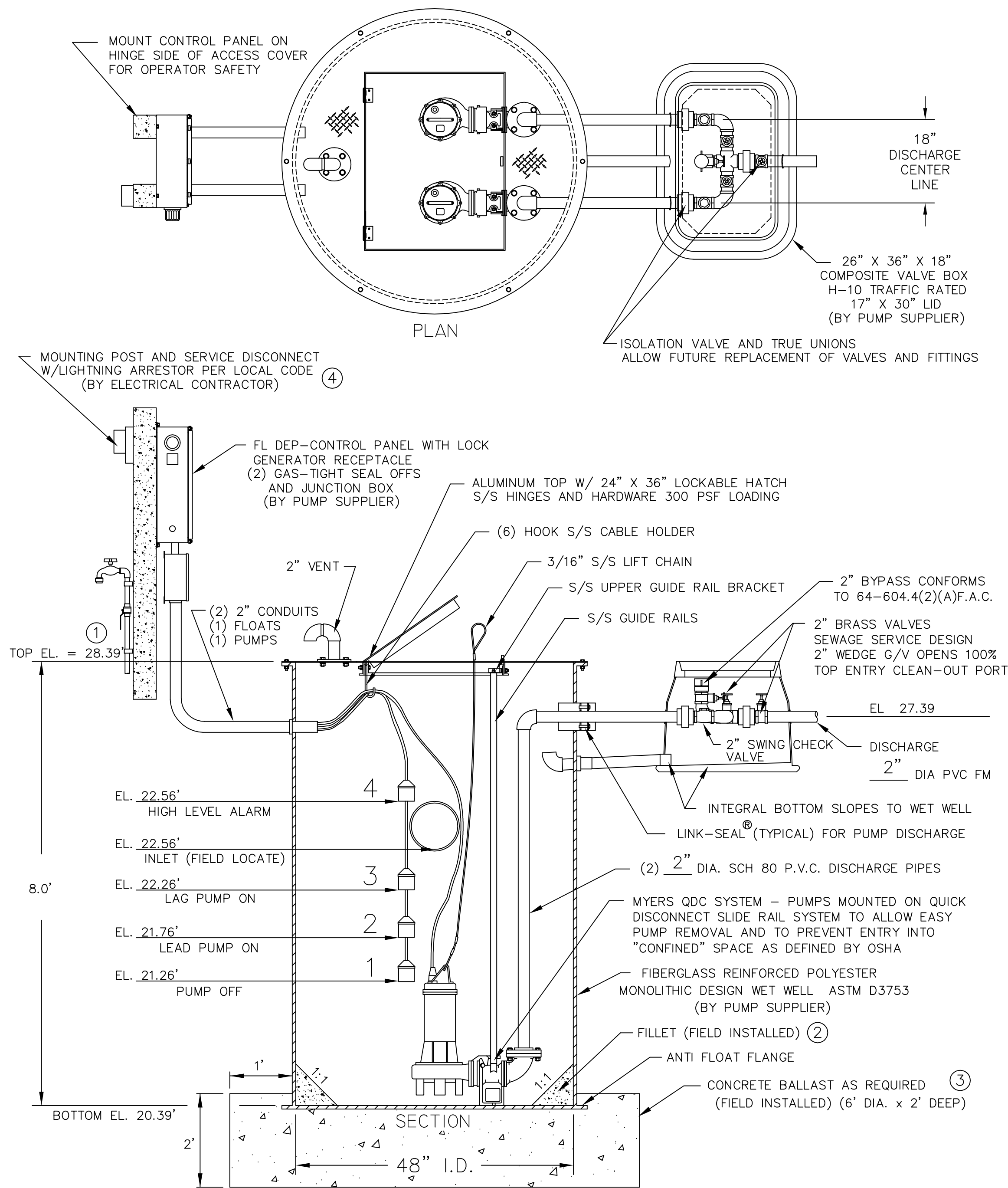
Special Purpose Survey of:
Lots 1 and 2, Block 3 of U.S. 301 INDUSTRIAL PARK ADDITION, Industrial Park Addition, as recorded in Plat Book 59, Page 17 of the Public Records of Hillsborough County, Florida.

This certifies that we have made a survey of the above described property and that the survey and this plat conforms to the minimum technical standards set forth by the Florida Board of Professional Land Surveyors in Chapter 47B, Florida Administrative Code, pursuant to Section 47B.027, Florida Statutes.

Field Date February 2, 2010
February 5, 2010 Revised
JOHN MELLA & ASSOCIATES, INC.
5884 N. 22nd Street
Tampa, Florida, 33610
(813) 236-9441

John Mella
Florida Surveyor and Mapper, LS1988
Florida Surveying & Mapping Business LB1687
This Survey Not Valid Without Signature and Embossed Seal of a Florida Licensed Surveyor and Mapper

Certified to:
Miller Contracting, Inc.
J.M. Job No. A103221



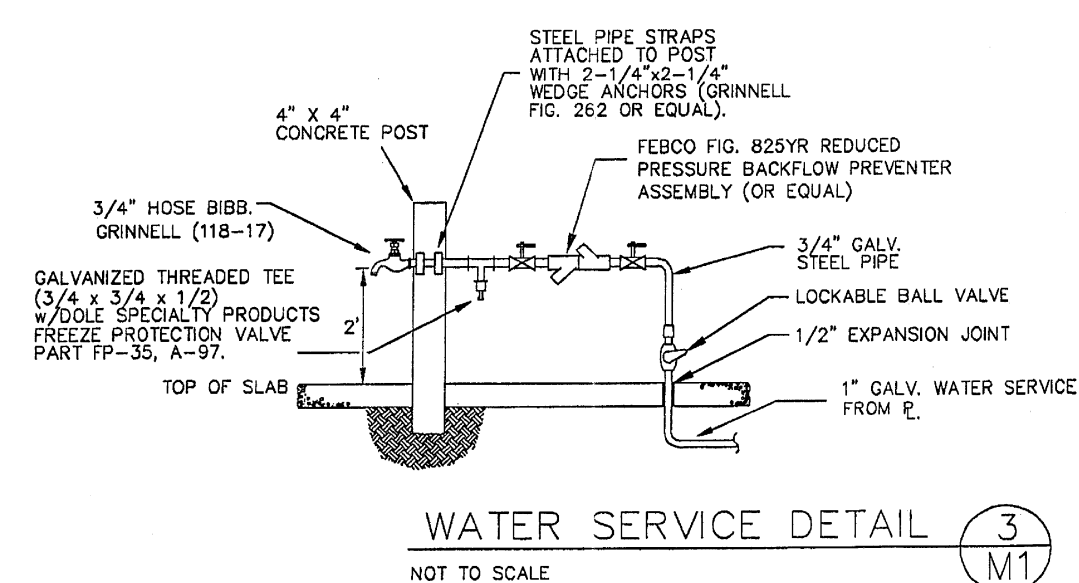
48" DUPLEX STATION - 2" PIPING
WITH SLIDE RAIL SYSTEM, V.B. AND F.D.E.P. PANEL

IN CASE OF EMERGENCY
CONTACT
JAN MILLER
813-886-6621

EMERGENCY CONTACT SIGN, 14" x 24" MIN. SHALL BE MADE OF DURABLE WEATHER RESISTANT MATERIAL TO BE POSTED AT A LOCATION VISIBLE TO THE PUBLIC UNOBSTRUCTED. LETTERING SHALL BE 2" MINIMUM HEIGHT.

EMERGENCY CONTACT SIGN DETAIL

4. MOUNTING POST, SERVICE DISCONNECT AND LIGHTING ARRESTOR PER LOCAL CODE
3. CONCRETE BALLAST AS REQUIRED
2. GROUT FILLET (1 TO 1 SLOPE TO "HOPPER" BOTTOM)
1. HOSE BIBB WITH REDUCED PRESSURE BACK FLOW PREVENTER FIELD INSTALL BY CONTRACTOR



WATER SERVICE DETAIL (3)
NOT TO SCALE

GENERAL NOTES

DESIGN CONDITION:

MODEL	WGL20	2	HP
GPM	39	59	FT/TDH
VOLTAGE	230	THREE	PHASE
DISCHARGE	2"	5.5"	IMPELLER

- SEWAGE PUMP: 1. RATED FOR TWENTY (20) STARTS PER HOUR.
2. AIR FILLED MOTOR DESIGNED FOR SEWAGE APPLICATION WITH CLASS F INSULATION.
 3. DUAL MECHANICAL SHAFT SEALS (SILICON CARBIDE / SILICON CARBIDE) LOCATED OUT OF THE PUMPAGE, IN A SEPARATE OIL FILLED CHAMBER.
 4. HIGH TEMPERATURE BALL BEARINGS B-10 RATING OF 60,000 HOURS, UPPER BEARING - SINGLE ROW AND LOWER BEARINGS - DOUBLE ROW TYPE.
 5. PUMP SHAFT HORSEPOWER (BHP) SHALL NOT EXCEED MOTOR RATED HORSEPOWER THROUGHOUT THE ENTIRE OPERATING RANGE OF THE PUMP PERFORMANCE CURVE.
 6. SINGLE PHASE MOTORS SHALL BE DUAL WOUND, CAPACITOR START-RUN AND CAPABLE OF OPERATING ON 208/230 VOLT WITH A 10% TOLERANCE VOLTAGE (190 TO 260). THREE PHASE MOTORS SHALL BE DUAL WOUND AND CAPABLE OF OPERATING ON 208/230 VOLT WITH A 10% TOLERANCE VOLTAGE (190 TO 260) OR OPERATE ON 460 VOLT BY CHANGING THE MOTOR LEADS INSIDE THE PUMP.

FIBERGLASS WET WELL: SHALL BE A ONE PIECE UNIT WITH INTEGRAL BOTTOM, WALL AND UPPER FLANGE. THE ENTIRE FIBERGLASS WET WELL SHALL HAVE A DYNAMIC LOAD RATING OF 16,000 FT/LBS. EACH UNIT MUST BE SERIAL NUMBERED TO IDENTIFY THE TEST PROCEDURE. ASTM D 3753 SPECIFICATIONS SHALL BE REQUIRED AS MINIMUM.

ALUMINUM HATCH: TSC MODEL-54R (54") ROUND WITH 24" X 36" LOCKABLE HATCH, REINFORCED FOR LOAD RATING OF 300 LBS/FT WITH HOLD OPEN SAFETY ARM, LOCKING DEVICE FOR HASP TYPE PADLOCK AND STAINLESS STEEL HARDWARE.

VALVE BOX: FIBERGLASS COMPOSITE (H-10 TRAFFIC RATED) WITH INTEGRAL BOTTOM. (FOR 1 1/4" AND 2" DISCHARGE PIPING SXS HEADER SYSTEM) SHALL BE 26" X 36" X 18" WITH 17" X 30" LIMITED ACCESS LID

ACCESSORIES: #304 S/S - GUIDE RAILS, UPPER GUIDE RAIL BRACKETS, CABLE HOLDER, ANCHOR BOLTS AND PUMP LIFTING CHAINS.

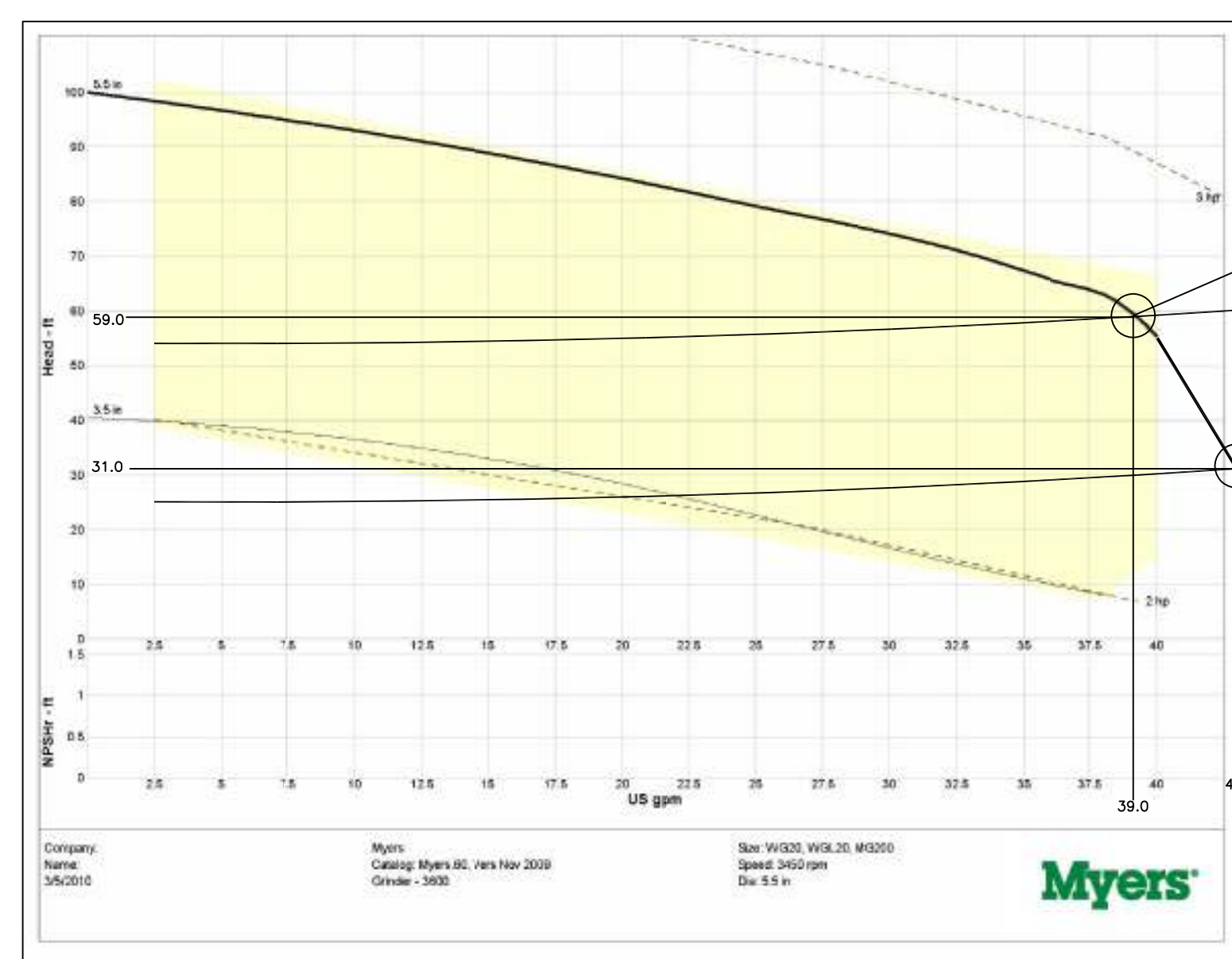
VALVES: SHALL BE SEWAGE SERVICE DESIGN BRASS SWING CHECK VALVES WITH TOP ENTRY CLEAN-OUT PORT AND BRASS WEDGE GATE VALVES OPEN 100%.

PIPING: 2" SCHEDULE 80 PVC.

FLOAT SWITCHES: UL LISTED SJ ELECTRO MODEL (SJ 30 SWENO).

PUMP SUPPLIER SHALL PROVIDE SUBMERSIBLE PUMPS, SLIDE RAIL ASSEMBLIES, CONTROL PANEL, JUNCTION BOX, FLOAT SWITCHES, ALUMINUM HATCH AND ACCESSORIES TO INSURE PROPER OPERATION AND WARRANTY.

THE COMPLETE PACKAGE PUMPING STATION SHALL HAVE PUMP BASES, SLIDE RAIL ASSEMBLIES AND DISCHARGE PIPING ASSEMBLED BY TECHNICAL SALES CORPORATION READY TO SHIP FOR FIELD INSTALLATION.



PUMP CURVE

CONTROL PANEL - SHALL CONFORM TO FL DEP 64-604.42(A)

CONTROL PANEL SHALL BE TSC MODEL # 38-D IN NEMA 4X FIBERGLASS ENCLOSURE. THE PANEL SHALL MEET STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP), ENVIRONMENTAL PROTECTION COMMISSION (EPC) AND LOCAL CODE REQUIREMENTS GOVERNING PRIVATE LIFT STATIONS.

FLOAT SWITCHES AND CONTROL SYSTEM SHALL BE UL LISTED AND INTRINSICALLY SAFE. ALL COMPONENTS SHALL BE UL LISTED.

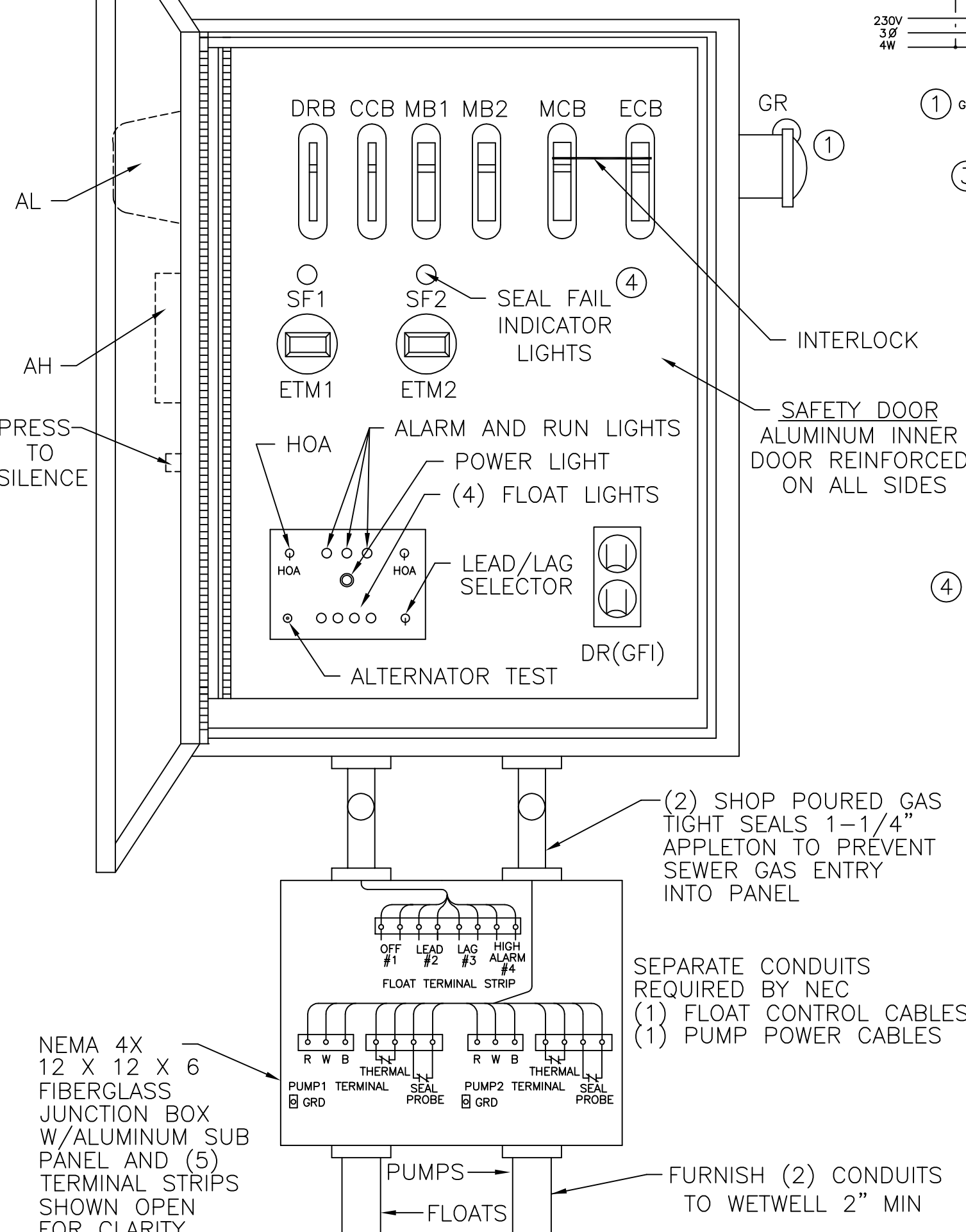
A JUNCTION BOX IS REQUIRED, WITH SHOP Poured SEALS BETWEEN BOX AND CONTROL PANEL TO PREVENT SEWER GAS ENTRY INTO CONTROL PANEL.

ELECTRICAL CONTRACTOR TO PROVIDE SERVICE DISCONNECT WITH LIGHTNING ARRESTOR MOUNTED PER LOCAL CODES.

THE CONTROL PANEL SHALL BE SUITABLY INSTALLED TO PREVENT SETTling OR TIPPING.

THE CONTROL PANEL SHALL HAVE A BATTERY BACK-UP.

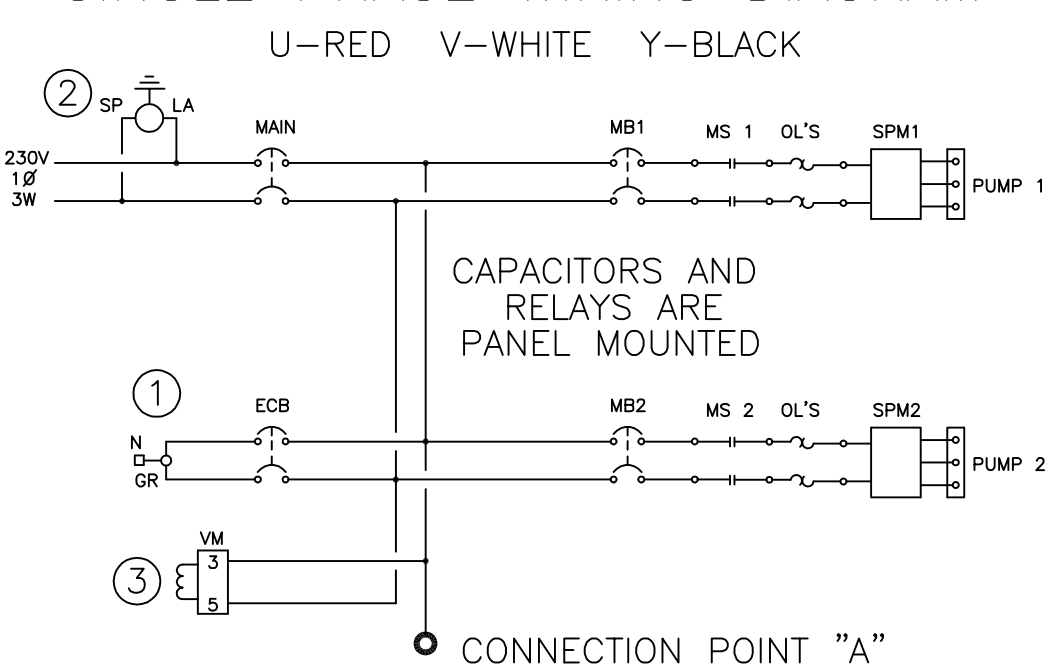
LOCKABLE CONTROL PANEL LAYOUT



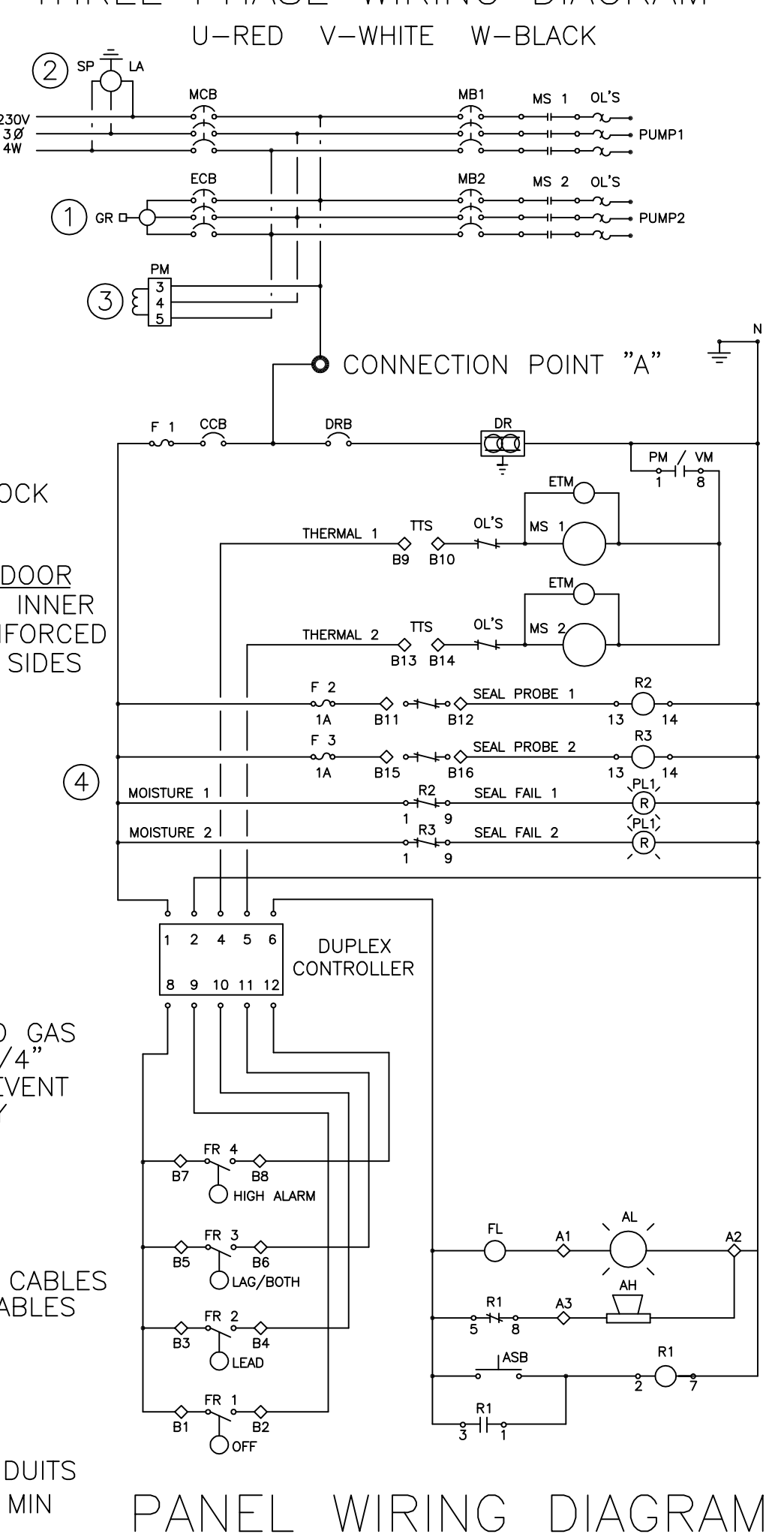
LEGEND

- AH ALARM HORN
- AL ALARM LIGHT
- ASB ALARM SILENCE BUTTON
- ATS ALTERNATOR TEST SWITCH
- CCB CONTROL CIRCUIT BREAKER
- DR DUPLEX RECEPTACLE
- DRB DUPLEX RECEPTACLE BREAKER
- ECB EMERGENCY CIRCUIT BREAKER
- ETM ELAPSED TIME METER
- F FUSE
- FL FLASHER
- FS FLOAT SWITCH (REGULATOR)
- GR GENERATOR RECEPTACLE
- GRD GROUND
- HOA HAND-OFF-AUTOMATIC SELECTOR
- LA LIGHTNING ARRESTOR
- MB MOTOR BREAKER
- MCB MAIN CIRCUIT BREAKER
- MS MOTOR STARTER
- N NEUTRAL
- OL'S OVERLOAD HEATERS
- PM PHASE MONITOR
- PTS PUMP TERMINAL STRIP
- R RELAY
- RC RUN CAPACITOR
- RD DISCHARGE RESISTOR
- RL PUMP RUN INDICATORS
- RTS REGULATOR TERMINAL STRIP
- SC START CAPACITOR
- SF SEAL FAIL
- SR START RELAY
- SP SURGE PROTECTOR
- TTS THERMAL TERMINAL STRIP

SINGLE PHASE WIRING DIAGRAM



THREE PHASE WIRING DIAGRAM



PANELS SHALL CONFORM TO FLORIDA DEP 64-604.400

1. GENERATOR RECEPTACLE FOR EMERGENCY POWER CONNECTION WITH INTERLOCK
 2. SURGE PROTECTION AND LIGHTNING PROTECTION ON ALL INCOMING LEGS
 3. PHASE PROTECTION SHALL BE PROVIDED
 4. SEAL FAIL DETECTING
- PANEL MANUFACTURER SHALL BE A "UL" LISTED SHOP.

FORTUNE PLASTICS

TAMPA CIVIL DESIGN

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LIFT STATION
PLAN AND DETAILS

LS.1