

PORT OF BROWNSVILLE ANCHOR PARK



SET NUMBER

ROBERTO J. RUIZ ARCHITECT, INC.

BROWNSVILLE, TEXAS 78520 (956) 350-9195 OFFICE

(956) 350-9196 FAX

ÀRCH1RUIZ@AOL.COM

Construction Documents

BROWNSVILLE, TEXAS



UNITED STATES

CAMERON COUNTY

LAGUNA VIST

HARLINGEN

RIO GRANDE

SAN BENITO

MATAMOROS

AREA MAP

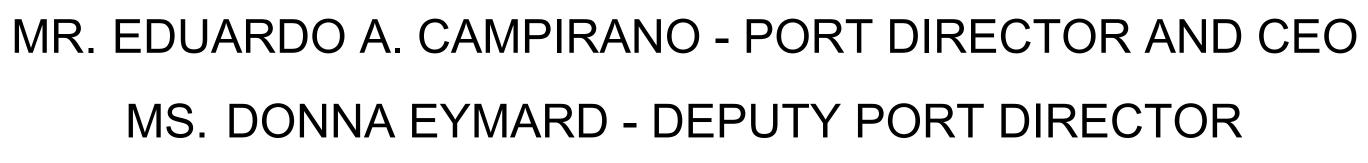


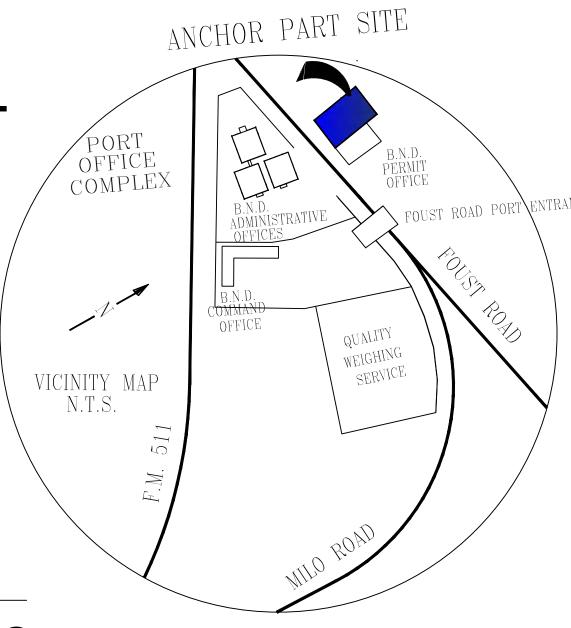


NAME AND ADDRESS OF OWNER: **BROWNSVILLE NAVIGATION DISTRICT** 1000 FOUST ROAD BROWNSVILLE, TEXAS

PORT OF BROWNSVILLE COMMISSION







VICINITY MAP

NAME AND ADDRESS OF THE ARCHITECT: ROBERTO J. RUIZ ARCHITECT, INC. 615 W. TANDY ROAD BROWNSVILLE, TEXAS (956)350-9195

NAME AND ADDRESS OF THE CIVIL ENGINEER: MR. ARIEL CHAVEZ, P.E. PORT OF BROWNSVILLE ENGINEERING 1000 CAPT DONALD L FOUST RD, BROWNSVILLE, TX 78526 (956)831-4592

NAME AND ADDRESS OF THE STRUCTURAL **ENGINEER:** SOLORIO, INC. 108 W. CLEO DAWSON MISSION, TEXAS (956) 631-1500

NAME AND ADDRESS OF THE MECHANICAL, ELECTRICAL, PLUMBING ENGINEER: TRINITY MEP ENGINEERING 3533 MORELAND DRIVE, SUITE A WESLACO, TEXAS (956)973-0500





USS SARATOGA AIRCRAFT CARRIER ANCHOR

DONATED BY STEELCOAST SHIPYARD

	ARCHITECTURAL
COV-1	COVER SHEET
TAS 1	TAS GUIDELINES SHEET 1
TAS	TAS GUIDELINES SHEET 2
GA1	PORT OF BROWNSVILLE PARTIAL SURVEY
A 1	ARCHITECTURAL SITE PLAN
A2	PARTIAL ARCHITECTURAL SITE PLAN
A3	PARTIAL ARCHITECTURAL SITE PLAN
A4	ANCHOR DETAILS
A5	DETAILS
A6	DECK ANCHOR DETAILS - PAVER AND LETTER DETAIL

SITE '	WORK _
C 1	EXISTING SITE PLAN
C2	HORIZONTAL CONTROL PLAN
C3	GRADING PLAN
C4	UTILITIES
C5	STORM WATER POLLUTION PREVENTION PLAN
C6	DETAIL SHEET

CIVIL

S101 S201 S401	GENERAL NOTES PLAN TYPICAL CONCRETE DETAILS
5401	I YPICAL CONCRETE DETAILS

STRUCTURAL

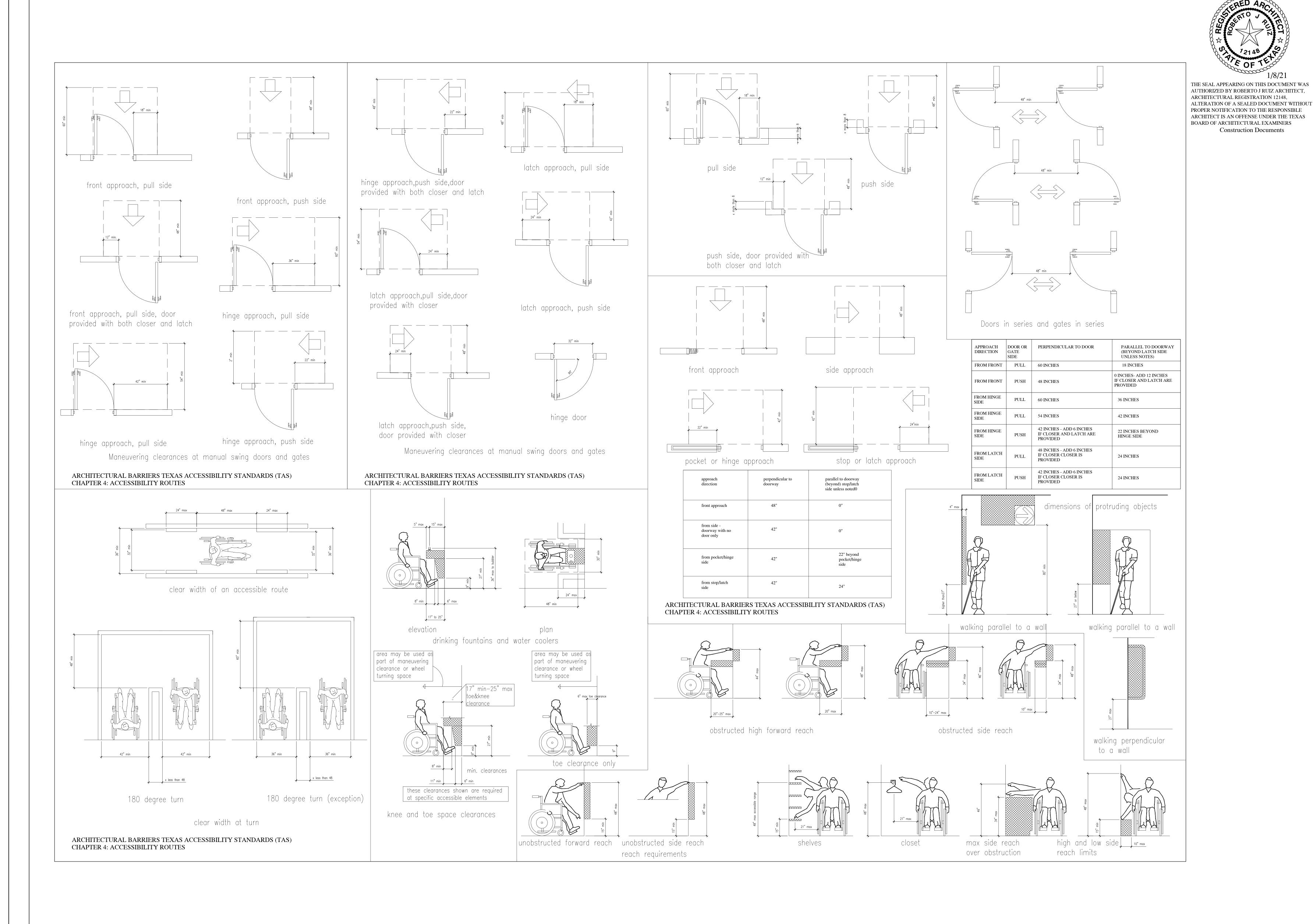
STRUCTURAL

ELECTRICAL

ELECTRICAL

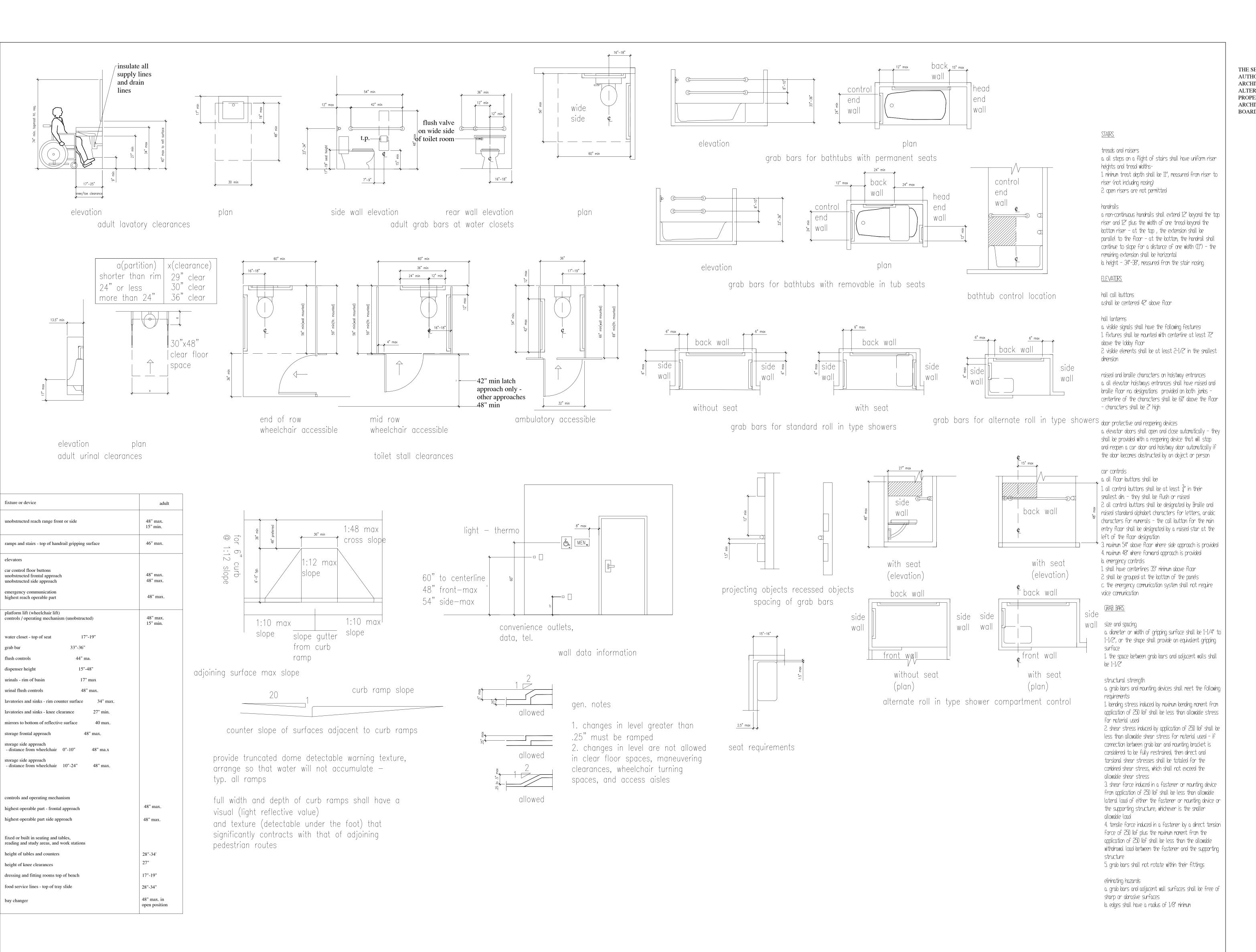
G01	ELECTRICAL LEGEND / SCHEDULES / RISER DIAGRAM	
TDO 1		

ESP01 ELECTRICAL SITE PLAN EL01 ELECTRICAL PLAN



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OWNER: BROWNSVILLE

OWNER: BROWNSVILLE NAVIGATION DISTROM OF BROWNSVILLE

BROWNSVIL

F BROWNSVILLE PARTIAL SURVEY

CAPTAIN D.L. FOUST ROAD (100 FT. R.O.W)

1.8'ø PALM — TREE

1.6'Ø PALM TREE

CONC.
CULVERT
FL=12.15

BREAKER BOX

FOUND / X 5/8"ø IRON ROD

"AT&T" CROUTE SIGN CLEAN-OUT

POWER S 76°07'45" W
POLE W 3
ELECTRICAL 3.11

FOUND RAILROAD SPIKE IN POWER POLE (ELEV.=14.83) "AT&T" OVERHEAD POWER LINE
3.12 SIGN 3.80

EDĜE OF CONC. ROAD

1 PORT OF BROWNSVILLE PARTIAL SURVEY

CHAIN LINK FENCE

CONCRETE WALL
ON CONCRETE PAD

ELECTRICAL TRANSFORMER

> 2'ø PALM — TREE

POWER POLE W 3 — ELECTRICAL TRANSFORMERS

128.00"16" Ø WATER LINE MAIN" SIGN WATER VALVE

PARKING LOT

RECORDS/PERMIT BLDG F.F.=15.50

> ASHPALT PARKING LOT

SIDEWALK

GRATE INLET

GAS VALVE

CONCRETE ROAD

3"ø BOLLARD WATER VALVE

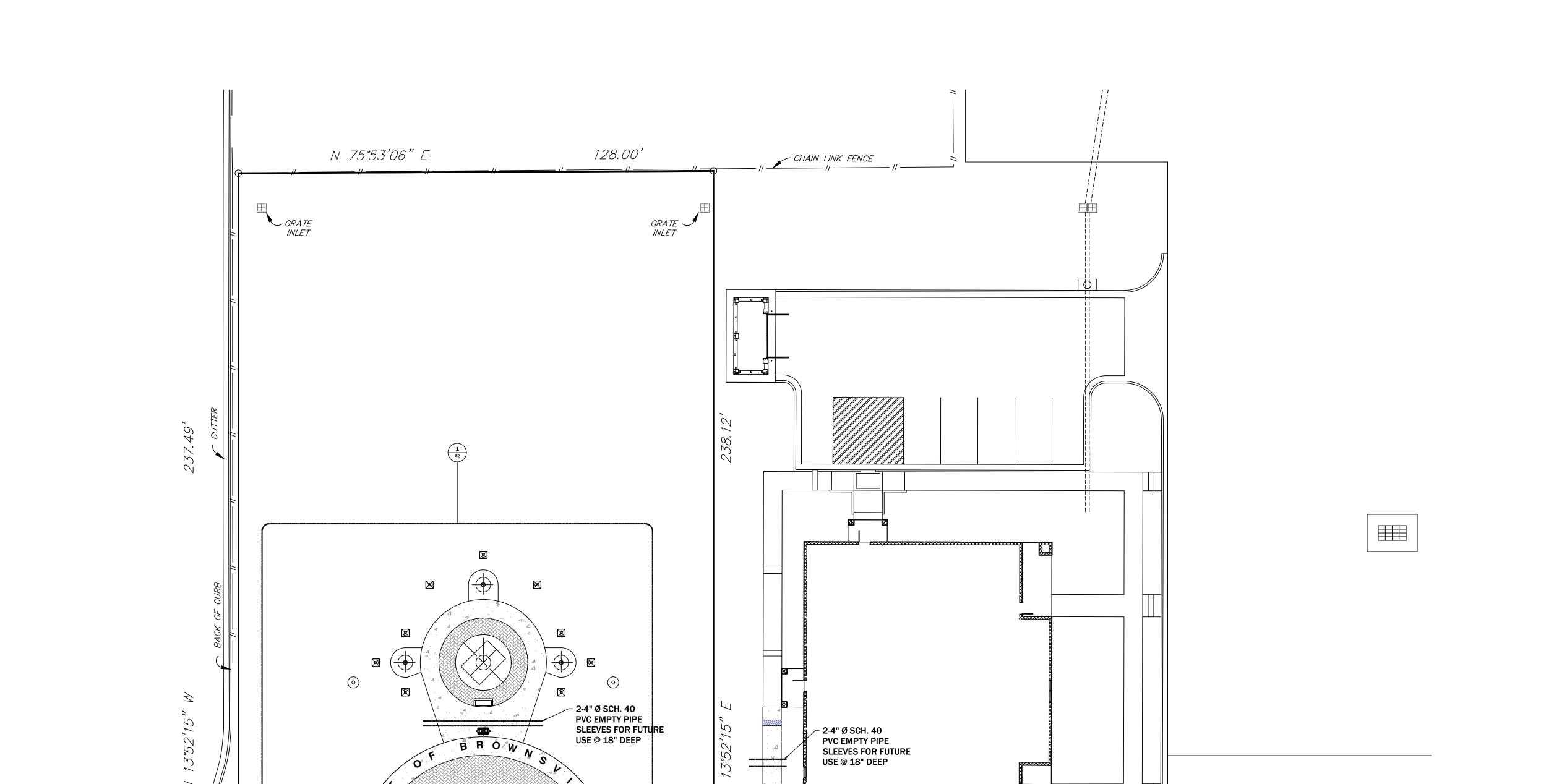
MANHOLE -

12"ø SEWERLINE

~ "10"ø SEWERLINE

R.O.W. LINE WATER VALVE

"16"ø WATERLINE



2-4" Ø SCH. 40
PVC EMPTY PIPE
SLEEVES FOR FUTURE
USE @ 18" DEEP

POWER POLE
W/ 3
ELECTRICAL
TRANSFORMERS

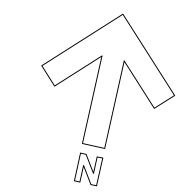
CAPTAIN D.L. FOUST ROAD (100 FT. R.O.W)

EDGE OF CONC. ROAD

POWER POLE

128.00'

2-4" Ø SCH. 40 PVC EMPTY PIPE SLEEVES FOR FUTURE USE @ 18" DEEP



S 76°07'45" W

CONC. CUL VERT



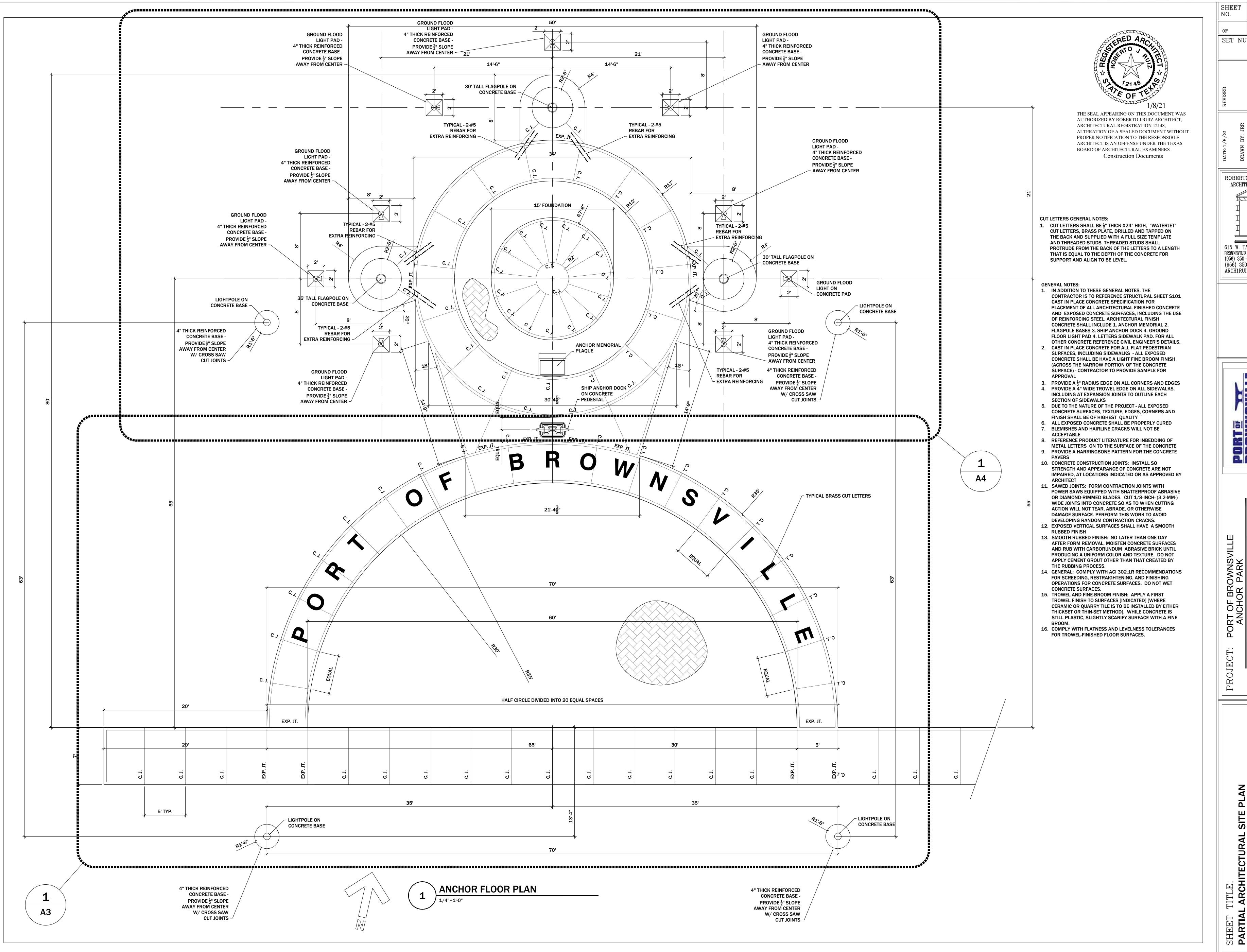


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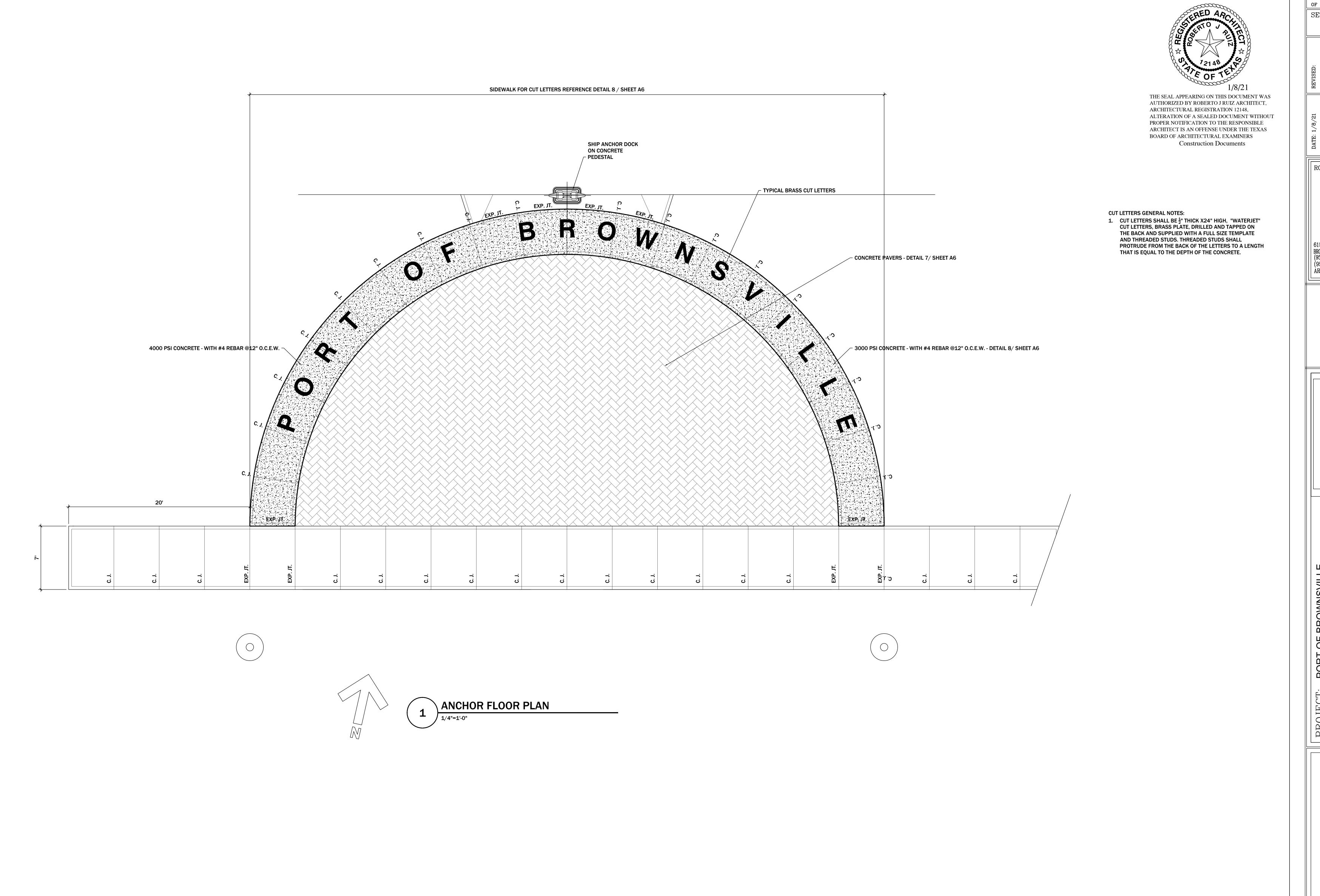
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PORTOR

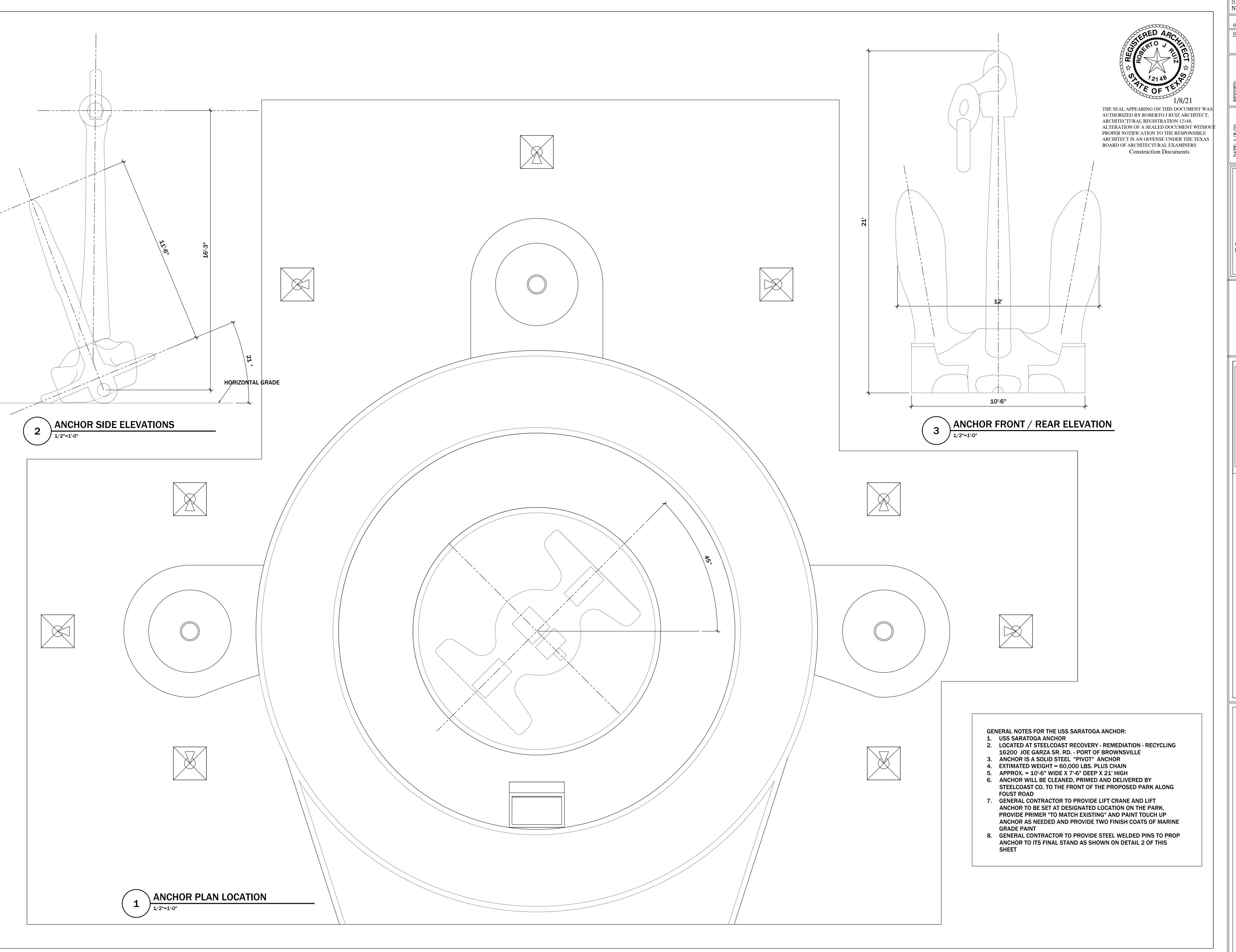


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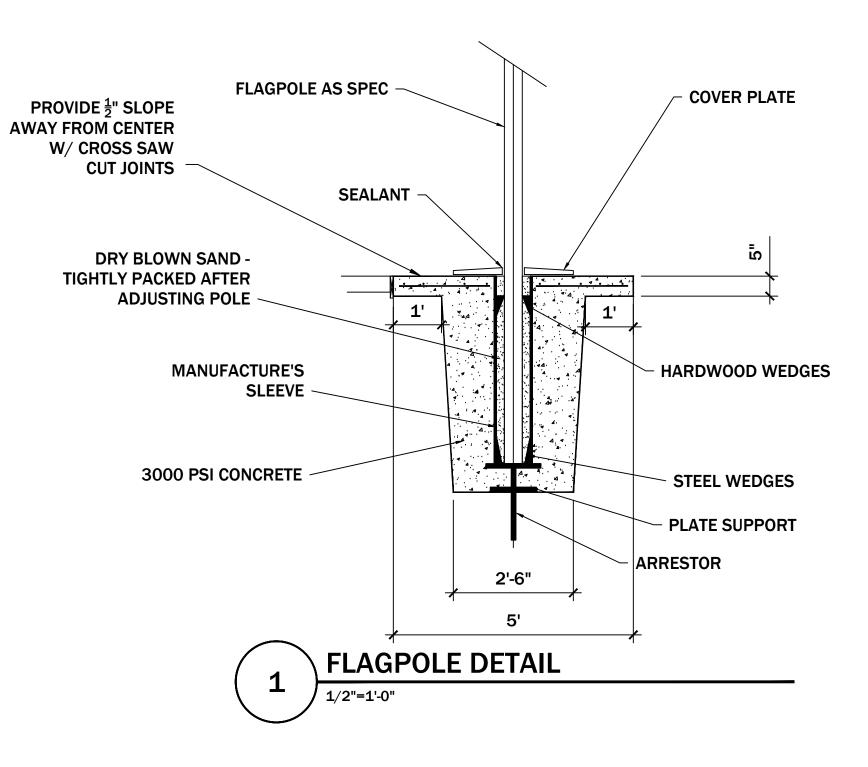
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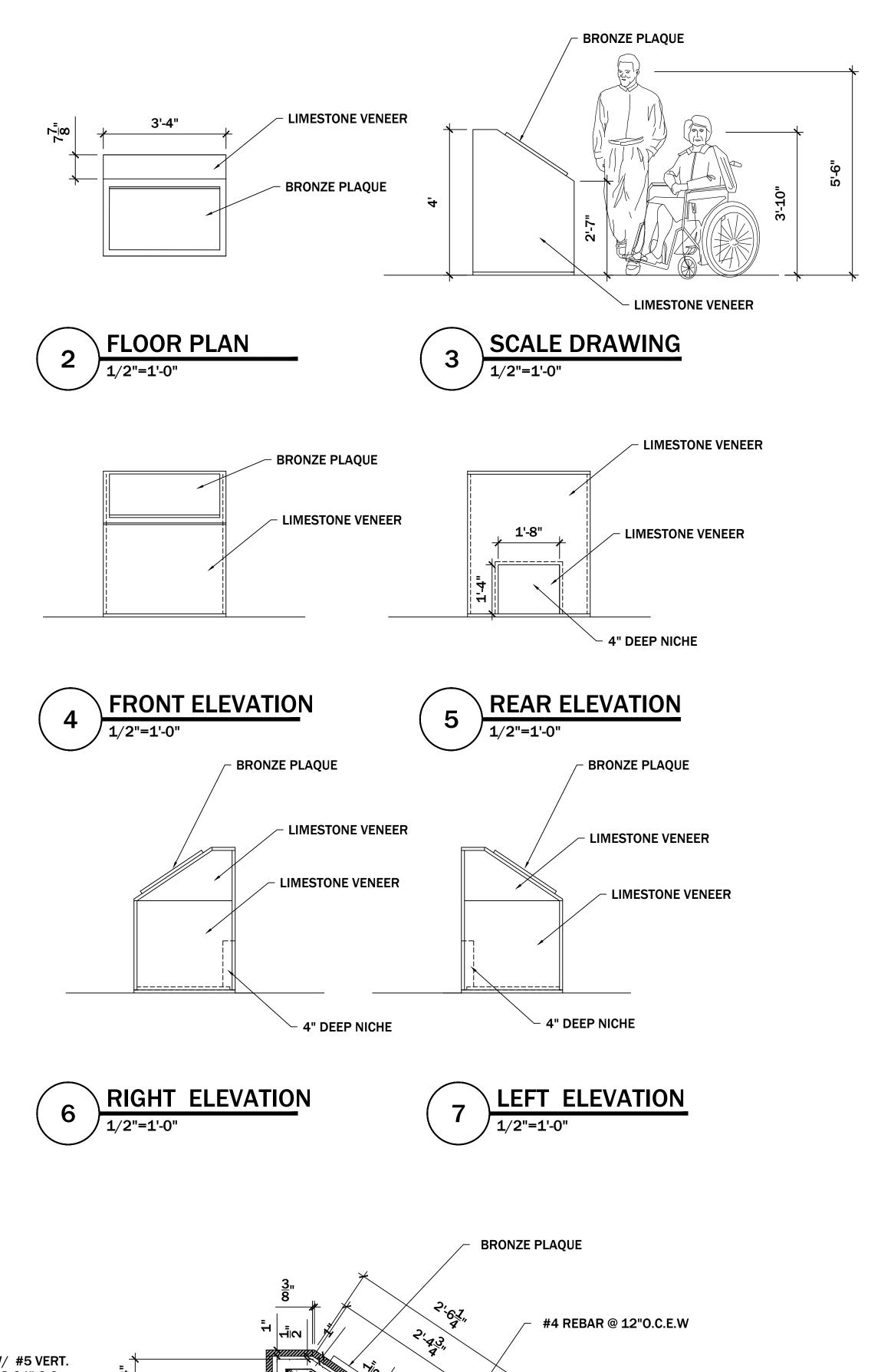


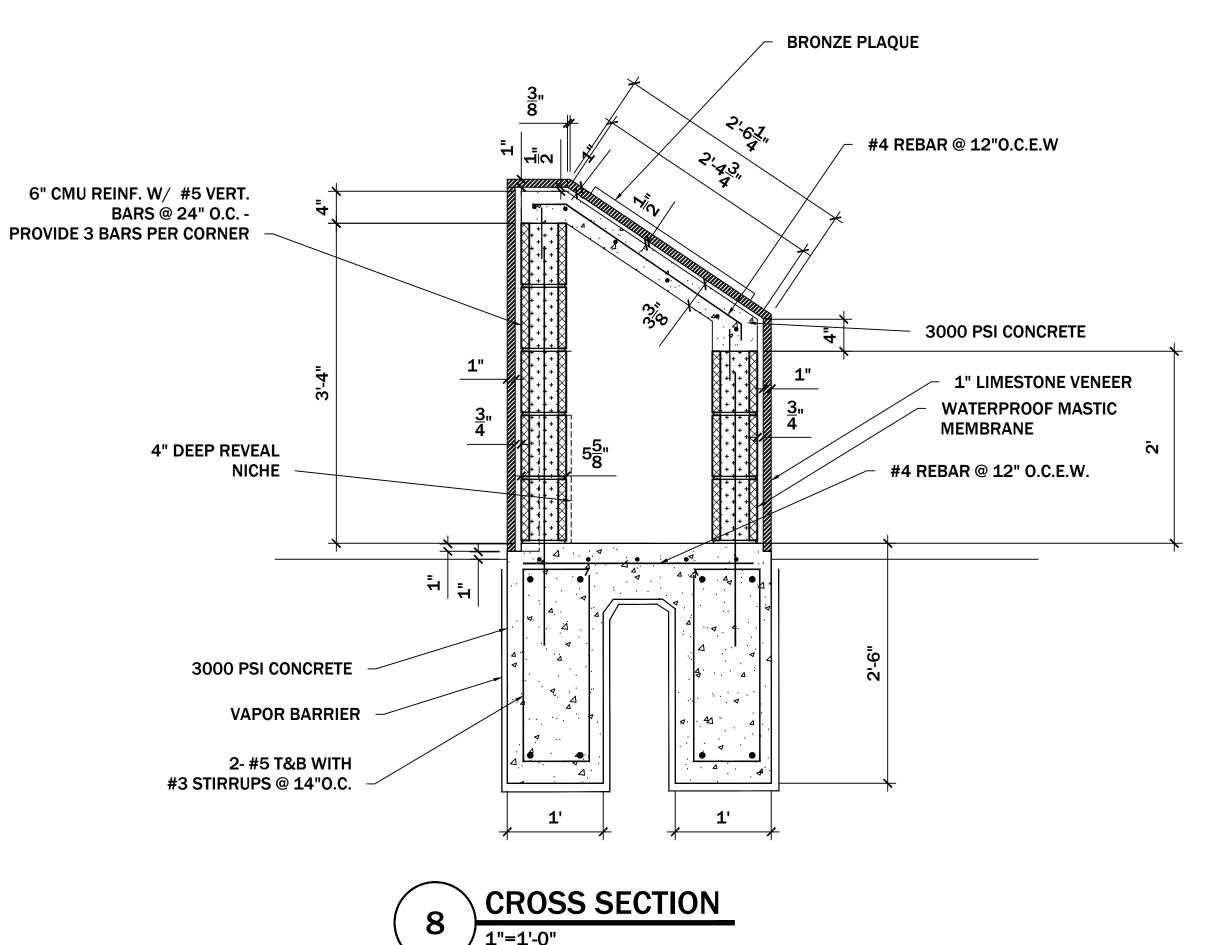
FLAGPOLE GENERAL NOTES:

2-30' TALL FLAG POLES AND 1-35' TALL FLAGPOLE AND ALL ACCESSORIES INCLUDING CYLINDER -CONTRACTOR TO INSTALL AND PROVIDE 3000 PSI CONCRETE, REBAR - LABOR AND MATERIAL FOR A COMPLETE INSTALLATION OF FLAG POLE

ALUMINUM FLAGPOLE INSTALLATION INSTRUCTIONS

- 1. DIG FOUNDATION HOLE FOUR TO SIX TIMES THE BUTT DIAMETER OF THE FLAGPOLE.
- SET THE FOUNDATION TUBE SO THAT THE TOP OF THE FOUNDATION TUBE IS TWO INCHES ABOVE
- 3. PLUMB FOUNDATION TUBE AND BRACE SO THAT IT WILL NOT MOVE DURING THE POURING
- 4. POUR CONCRETE AND TROWEL UP EVEN WITH TOP OF FOUNDATION TUBE. KEEP INSIDE OF FOUNDATION TUBE DRY.
- 5. LAY POLE ON SAW HORSES AND UNWRAP. FOR SECTIONAL POLES CHECK BOTH ENDS OF ANY BURRS. IF ANY ARE FOUND,
- FILE THEM OFF AND WIPE AREAS CLEAN. FULLY GREASE JAM SLEEVES. ALIGN THE ARROWS AND/OR NUMBERS ON EACH
- SECTION AND JAMB TOGETHER. NUMBERS MUST BE IDENTICAL FOR PROPER FIT. 6. SCREW THE TRUCK INTO THE TOP OF THE POLE, USING A WRENCH TO ENSURE A TIGHT FIT. IF
- CAP-STYLE TRUCK IS USED, BE
- SURE SET SCREWS ARE WELL TIGHTENED. 7. SCREW BALL (IF INCLUDED) INTO TRUCK AND TIGHTEN BALL SET SCREW. BALL SHOULD BE
- TIGHTENED INTO TRUCK TIGHTLY BY TURNING STEM OF BALL WITH WRENCH. DO NOT TIGHTEN BY TURNING BALL PROPER.
- 8. IF FLASH COLLAR IS PROVIDED WITH POLE, SLIDE COLLAR ON FROM THE BOTTOM OF POLE TO ABOVE CLEAT LEVEL AND ATTACH
- CLEAT WITH ONE SCREW TO HOLD FLASH COLLAR UNTIL AFTER ERECTION OF POLE. THEN REMOVE CLEAT, SLIDE COLLAR DOWN,
- AND REPLACE CLEAT. CAULK BETWEEN THE COLLAR AND THE POLE WITH WATERPROOF SEALANT (LIKE ROOFING CEMENT OR
- ASPHALTUM SEALANT). 9. THREAD ROPE THROUGH SHEAVE (PULLEY) OF TRUCK AND TIE THE ENDS TOGETHER SO THAT THE
- ROPE WILL NOT DROP OUT OF THE SHEAVE DURING ERECTION OF THE POLE. (NOT FOR INTERNAL HALYARD POLES)
- 10. ERECT POLE INTO FOUNDATION TUBE AND CENTER IT. TURN SO THAT CLEAT(S) HOLES ARE IN THE DIRECTION DESIRED.
- 11. PLACE WOOD WEDGES (SUPPLIED BY OTHERS) BETWEEN THE POLE AND FOUNDATION TUBE AND PLUMB POLE.
- 12. PACK DRY SAND BETWEEN THE POLE AND FOUNDATION TUBE. LEAVE TWO INCHES VOID AT THE
- TOP AND FILL WITH WATERPROOF SEALANT TO KEEP WATER OUT OF SAND.
- 13. LOOP SNAPS ON ROPE, SPACE PROPERLY FOR FLAG SIZE BEING USED. (NOT ON INTERNAL **HALYARD POLES)**
- IMPORTANT: WHEN ERECTING SECTIONAL POLES, NEVER PLACE YOUR SLING ABOVE THE JOINT. SLING MUST BE POSITIONED
- BELOW THE JOINT THUS ELIMINATING THE POSSIBILITY THAT THE TWO SECTIONS COULD SEPARATE DURING HOISTING.
- ALSO: FOR YARDARM -TYPE FLAGPOLES, PLEASE LOCATE (3) PRE DRILLED HOLES APPROXIMATELY 1/3 DOWN FROM THE TOP OF
- POLE. TAKE THE 6"X9" PLATE AND ATTACH IT AT THIS POINT. THEN ATTACH U BOLTS AROUND THE
- YARDARM AND THROUGH THE PLATE; SECURE NUTS AND WASHERS, INCLUDING THE (4) SMALL ACORN NUTS FOR THE ENDS OF THE U
- 14. SYSTEM MUST BE GROUNDED





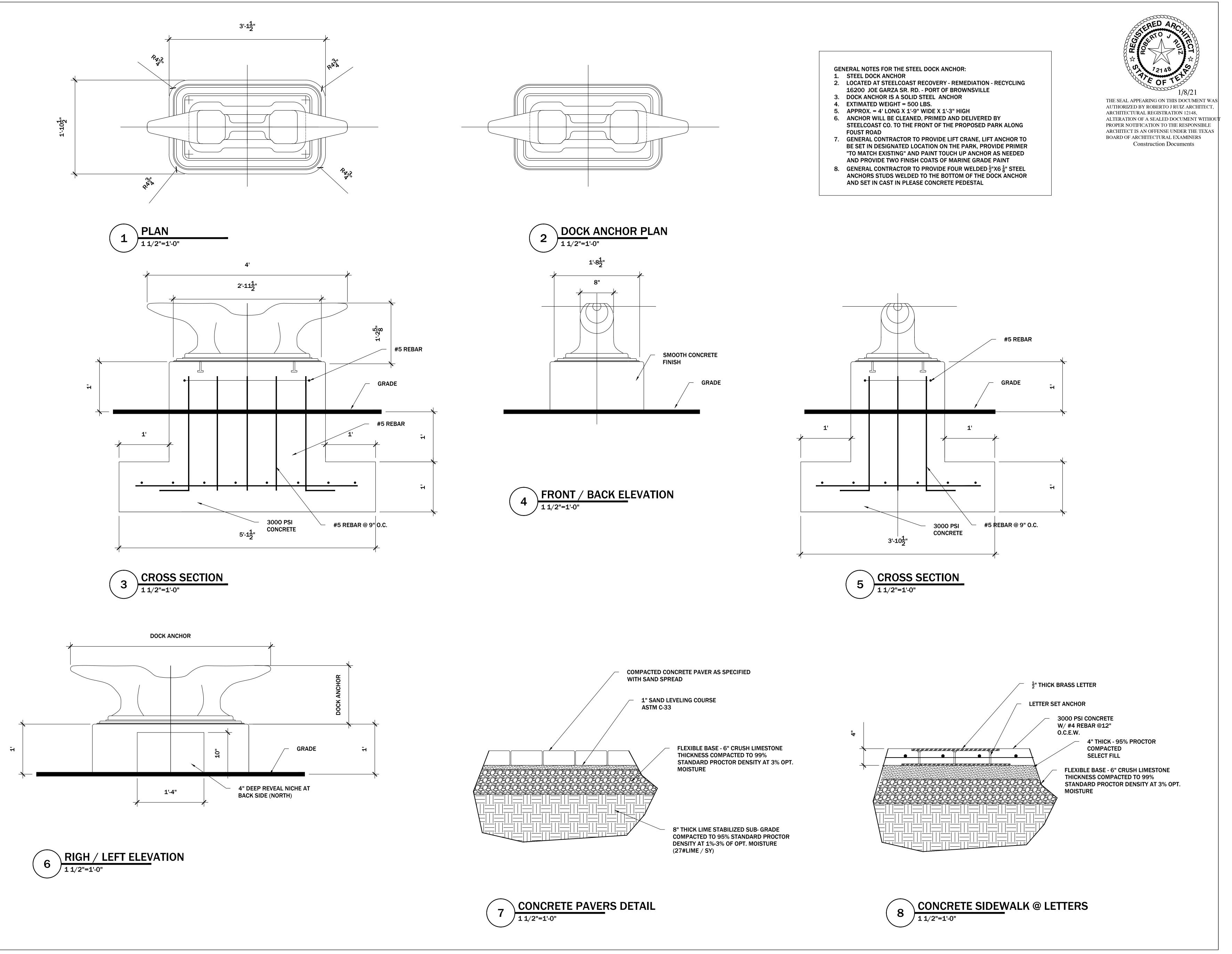


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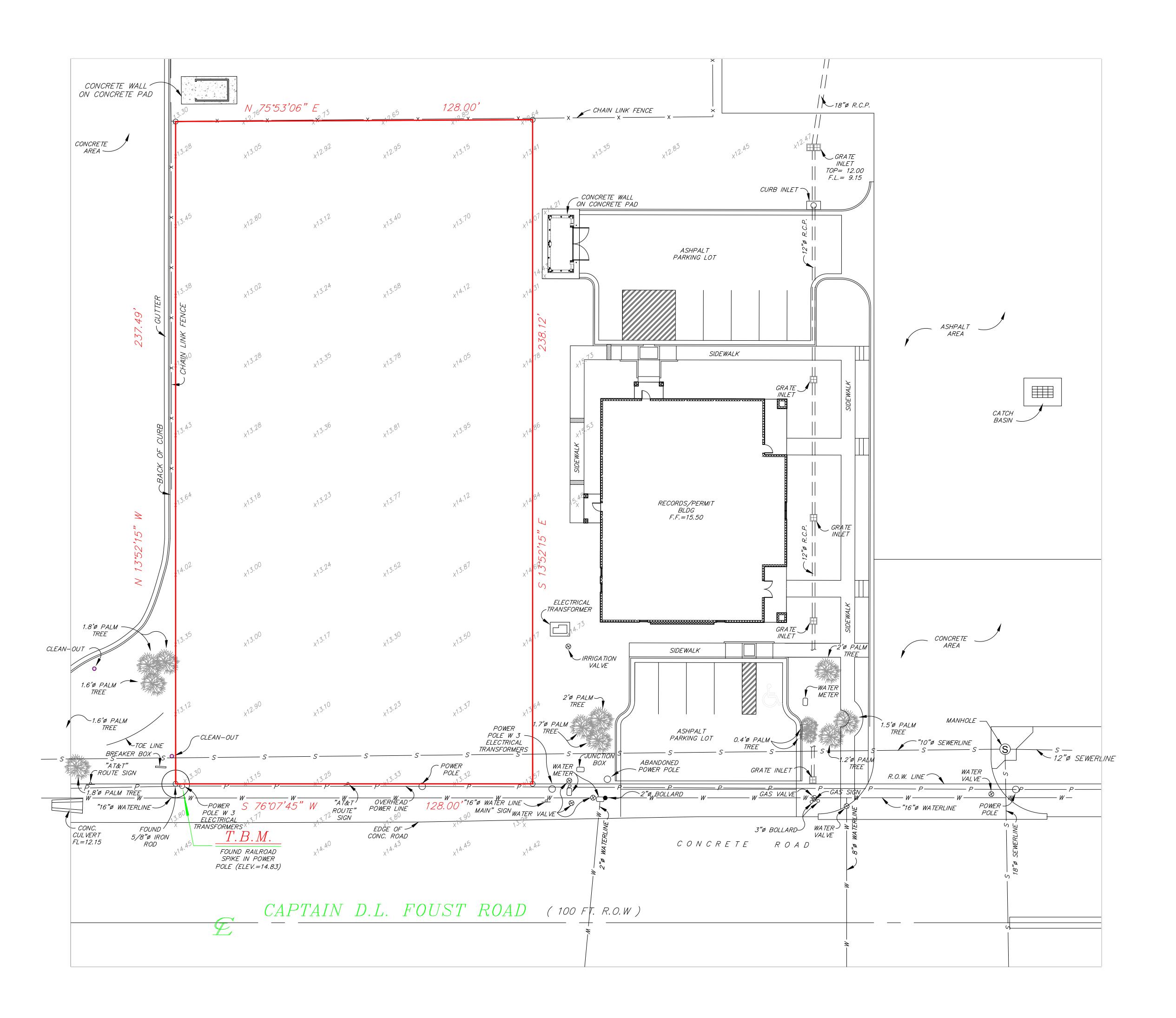
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BROWNSVILLE NAVIGATION DISTRICT
ENGINEERING DEPARTMENT
BROWNSVILLE, TEXAS 78521
PHONE (956) 831-4592 1-800-378-5395
FAX (956) 831-6153
EMAIL achavez@portofbrownsville.com

SHEET NO.

OF

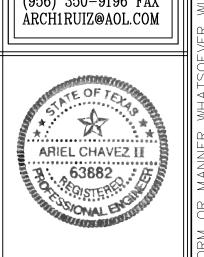
SET NUMBER

REVISED:

DAIE: 9/30/16
DRAWN BY: JRR
PROJECT NO.:

ROBERTO J. RUIZ
ARCHITECT, INC.

615 W. TANDY ROAD
BROWNSVILLE, TEXAS 78520
(956) 350-9195 OFFICE
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DISTRICT the port

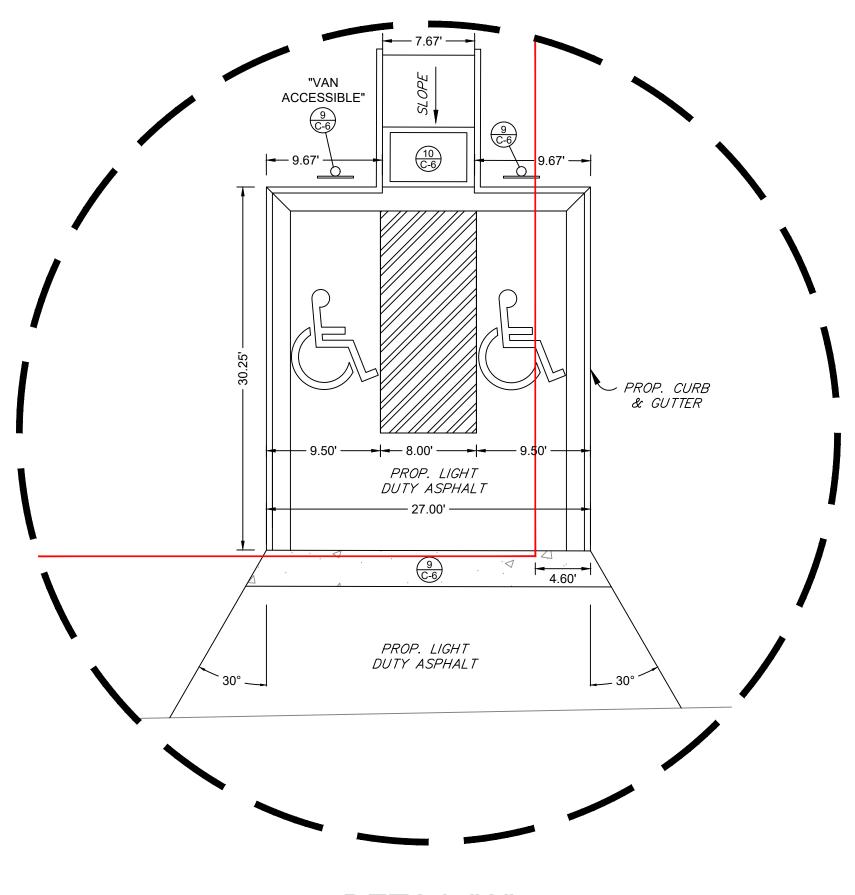
OWNER: BROWNSVILLE NAVIGATION DISTR

ING SITE

SHEEL HILLE: EXISTING SITE



CONTRACTOR SHALL VERIFY COLOR OF PARKING STRIPES AND INTERNATIONAL ACCESSIBILITY SYMBOLS WITH ARCHITECT IN THE SUBMITTAL PROCESS.



DETAIL "A" N.T.S.

BROWNSVILLE NAVIGATION DISTRICT ENGINEERING DEPARTMENT BROWNSVILLE, TEXAS 78521 PHONE (956) 831-4592 1-800-378-5395 FAX (956) 831-6153 EMAIL achavez@portofbrownsville.com

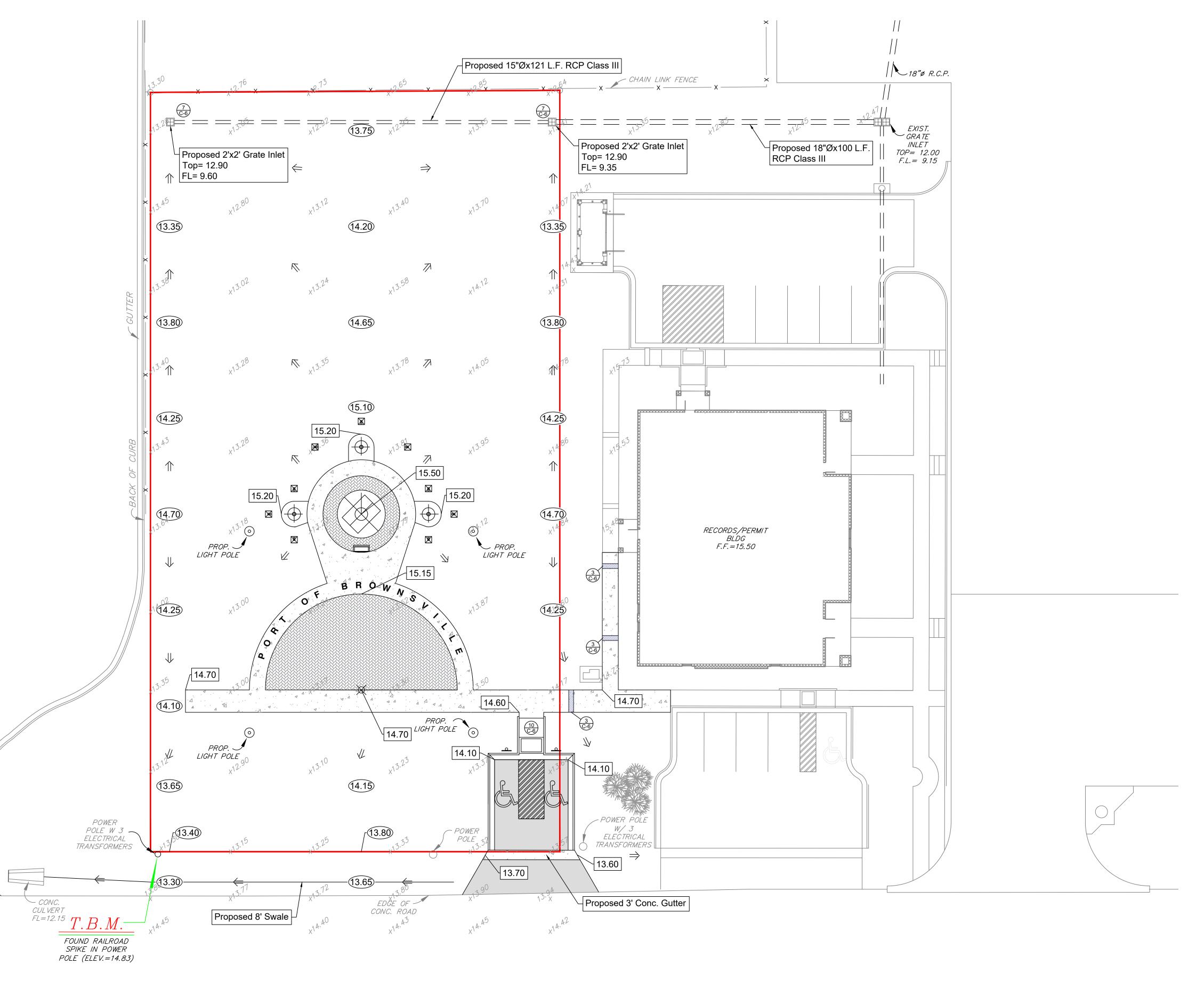
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SHEET TITLE: HORIZONTAL (



PROP. NATURAL GROUND ELEV.

PROP. PAVEMENT ELEV.

DO NOT EXCEED 2% SLOPE IN HANDICAP PARKING AREA.

 \leftarrow FLOW DIRECTION ARROW

NOTES:

CONTRACTOR SHALL PROVIDE SMOOTH, FINELY GRADED SURFACE ON ALL UNPAVED AREAS SUITABLE TO RECEIVE HYDRO-MULCH SEEDING. GRADE UNIFORMLY TO DRAIN TOWARD DRAINAGE OUTLETS OR SWALES. ALL DEBRIS AND EXCESS EARTH MATERIAL GENERATED BY THE SITEWORK OPERATIONS WILL BECOME PROPERTY OF THE CONTRACTOR TO BE REMOVED FROM THE SITE AND PROPERLY DISPOSED AT HIS EXPENSE. NO SIDEWALKS SHALL HAVE A CROSS SLOPE GREATER THAN 2% OR LONGITUDINAL SLOPE GREATER THAN 5%. EXCEPT WHERE SPECIFICALLY SHOWN ON PLANS. ALL STORM SEWER PIPE SHALL BE BEDDED IN SAND, SAME AS SANITARY SEWER AND WATER LINE PIPE.

FINISHED GROUND SURFACE ADJACENT TO ALL PAVEMENT TO BE SHOWN AS TOP ELEVATION OF FINISHED LANDSCAPE MATERIAL SHALL NOT EXCEED THE ELEVATIONS SHOWN. GRADING PRIOR TO LANDSCAPING SHALL BE FINISHED LOWER AS NEEDED TO ACCOMMODATE LANDSCAPING MATERIALS. NO IRRIGATION SPRINKLER HEADS OR PIPING SHALL BE INSTALLED IN ANY AREA UNTIL FINAL GRADING IN THAT AREA HAS BEEN COMPLETED AND APPROVED BY SITE WORK ENGINEER.

CAPTAIN D.L. FOUST ROAD (100 FT. R.O.W)



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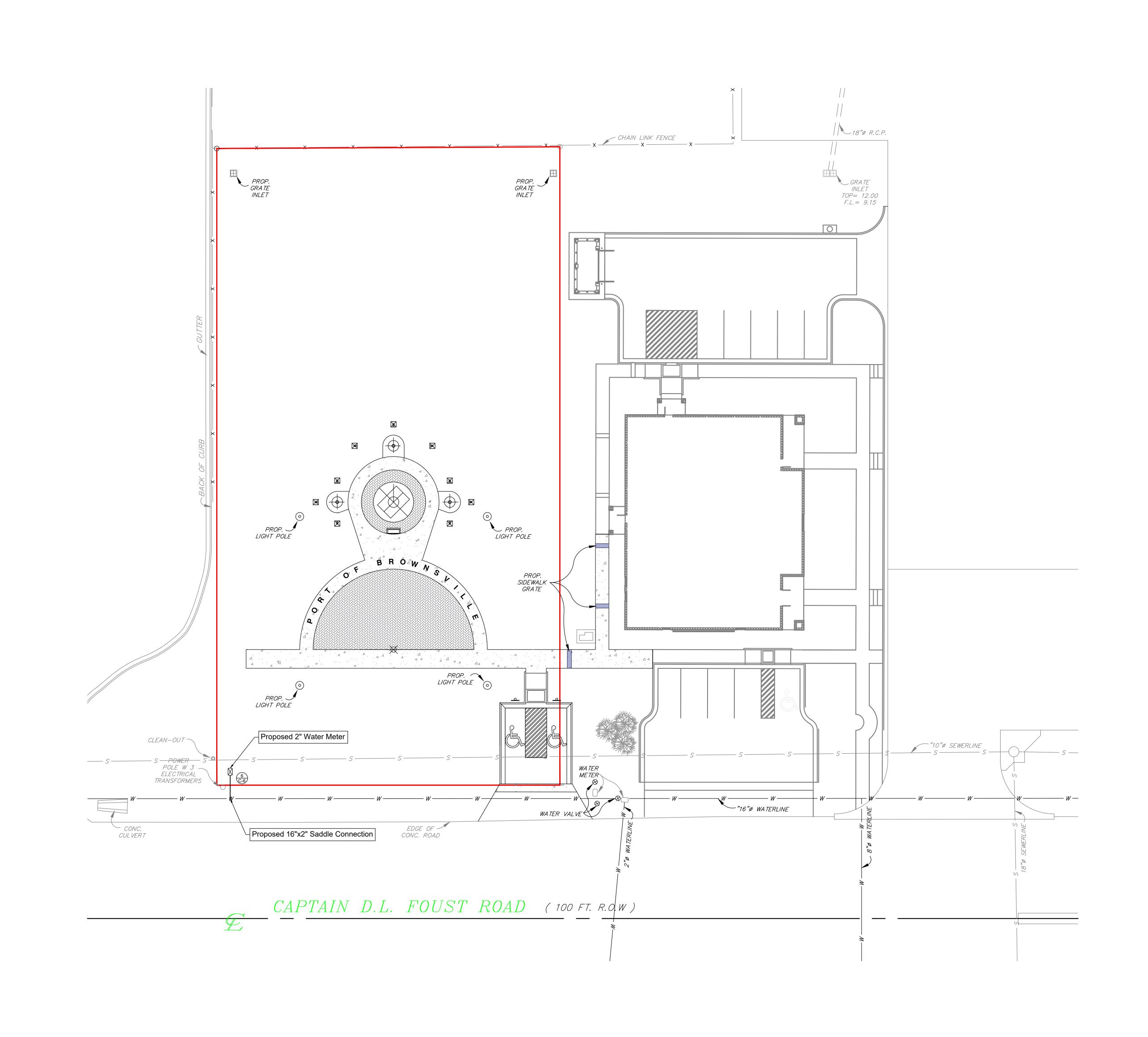
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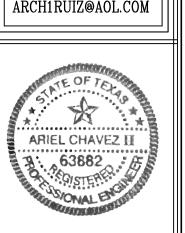
SHEET TITLE: GRADING PLAN



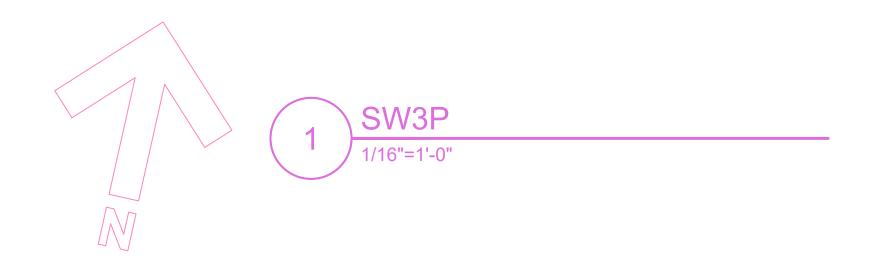


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CAPTAIN D.L. FOUST ROAD (100 FT. R.O.W)



CONTRACTOR'S RESPONSIBILITY FOR PREPARATION AND IMPLEMENTATION OF STORMWATER POLLUTION PREVENTION PLAN

- 1. IT IS THE INTENT OF THE INFORMATION PROVIDED WITHIN THESE SPECIFICATIONS TO BE USED BY THE CONTRACTOR AS THE GENERAL GUIDELINES OF THE STORM WATER POLLUTION PREVENTION PLAN FOR THIS PROJECT TO ESTABLISH A MINIMUM BASIS OF COMPLIANCE WITH THE FEDERAL REGULATIONS.
- 2. THE CONTRACTOR'S STORM WATER POLLUTION PREVENTION PLAN SHOULD ADDRESS THREE GOALS:
- A. DIVERSION OF UPSLOPE WATER AROUND DISTURBED AREAS OF THE SITE;B. LIMITS THE EXPOSURE OF DISTURBED AREAS TO THE SHORTEST DURATION POSSIBLE; AND
- C. REMOVAL OF SEDIMENT FROM STORM WATER BEFORE IT LEAVES THE SITE.
- 3. IF AREA OF THE PROJECT REQUIRES, THE CONTRACTOR SHALL PREPARE AND FILE TO THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY STORM WATER & GENERAL PERMITS TEAM (TCEQ) NOTICE OF INTENT (NOI) FORMS BEFORE (SEVEN DAYS IF BY MAIL—24 HOURS IF ON LINE) BEGINNING ANY CONSTRUCTION.
- 4. THE CONTRACTOR SHALL MAKE THE STORM WATER POLLUTION PREVENTION PLAN AVAILABLE, UPON REQUEST, TO TCEQ.
- 5. THE CONTRACTOR MUST AMEND PLANS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE OF THE PLAN, OR WHEN THE EXISTING PLAN PROVE INEFFECTIVE. MODIFICATIONS INCLUDING DESIGN AND ALL ADDITIONAL MATERIALS AND WORK, SHALL BE ACCOMPLISHED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 6. STABILIZATION MEASURES ARE TO BE INSPECTED AT A MINIMUM OF ONCE EVERY 14 DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES. REPAIRS AND INADEQUACIES REVEALED BY THE INSPECTION MUST BE REMEDIED WITHIN 7 CALENDAR DAYS.
- 7. ALL INSPECTION REPORTS SUMMARIZING INSPECTION ACTIVITIES, REMEDIAL ACTION TAKEN, AND ACTUAL IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE RETAINED AND MADE PART OF THE PLAN.
- 8. ALL CONTRACTORS AND SUBCONTRACTORS IDENTIFIED IN THE PLAN MUST CERTIFY AS TO AN UNDERSTANDING OF THE TPDES GENERAL PERMIT BEFORE CONDUCTING ANY ACTIVITY IDENTIFIED IN THE STORM WATER POLLUTION PREVENTION PLAN.
- 9. THE CONTRACTOR SHALL ADOPT APPROPRIATE CONSTRUCTION SITE MANAGEMENT PRATICES TO PREVENT THE DISCHARGE OF OILS, GREASE, PAINTS, GASOLINE, AND OTHER POLLUTANTS TO STORM WATER. APPROPRIATE PRACTICES CAN INCLUDE:
- DESIGNATED AREAS FOR EQUIPMENT MAINTENANCE AND REPAIR;
 REGULAR COLLECTION OF WASTE;
 CONVENIENTLY LOCATED WATER RECEPTACLES; AND
- DESIGNATING AND CONTROLING EQUIPMENT WASH-DOWN.

 10. THE CONTRACTOR SHALL AMEND OR MODIFY THIS PLAN AS REQUIRED
- 10. THE CONTRACTOR SHALL AMEND OR MODIFY THIS PLAN AS REQUIRED BY CONSTRUCTION MEANS, METHODS AND SEQUENCE. MODIFICATIONS SHALL NOT COMPROMISE THE INTENT OF THE REQUIREMENTS OF THE LAW OR THE PLANS. MODIFICATIONS SHALL NOT BE BASIS FOR ADDITIONAL COST TO THE OWNER.
- 11. THE CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AT ALL TRAFFIC ENTRANCE/EXIT POINTS PRIOR TO EXITING ONTO AND PAVED ROADWAYS. (SEE DETAIL 1.)
- 12. THE CONTRACTOR SHALL PROTECT ALL POTENTIAL POINTS OF DISCHARGE OF RUNOFF (INLETS, GUTTERS, SWALES AND UNVEGETATED RESACA BANK AREAS) WITH SILT FENCING HAY BALES, GRAVEL FILLED BAGS AS SHOWN ON DETAILS 2, 3, AND 4 OR EQUIVALENT MEANS APPROVED BY ENGINEER.

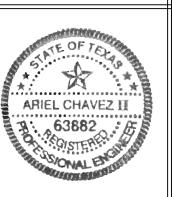
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BROWNSVILLE the port that works

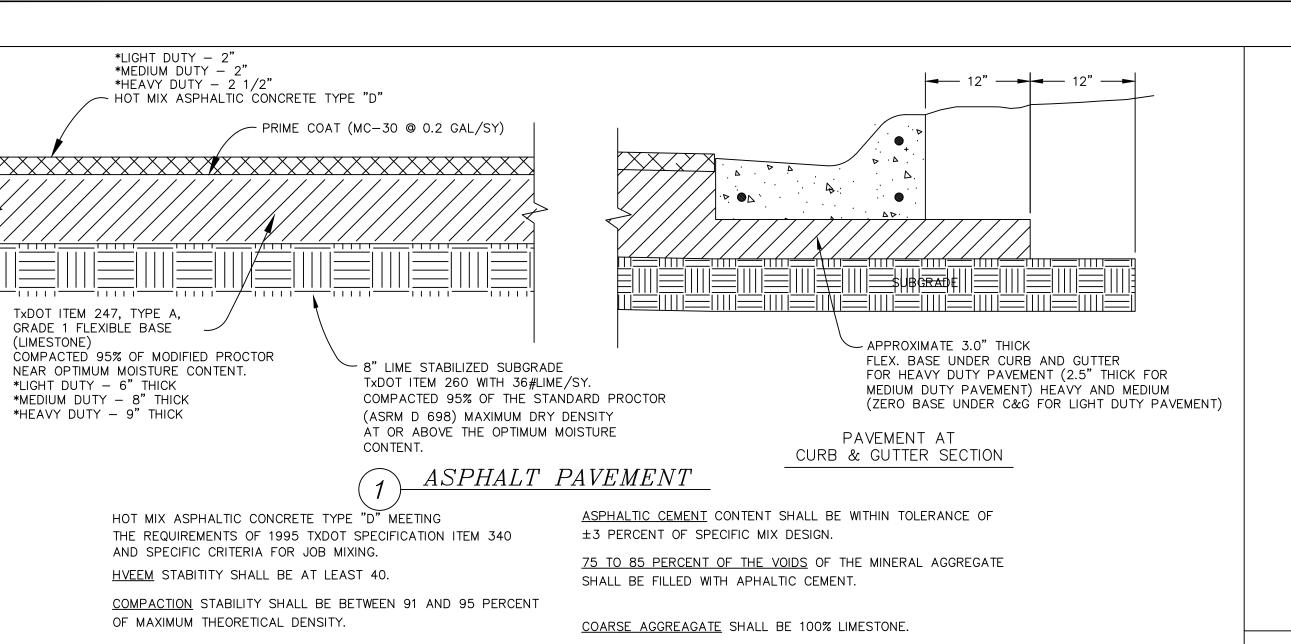
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RT OF BROWNSVILLE
BROWNSVILLE, TEXAS

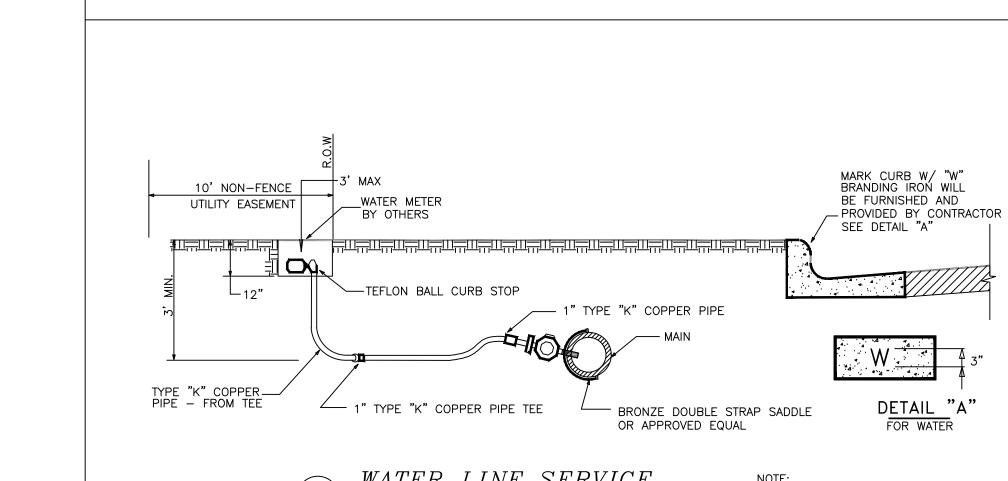
OLLUTION PREVENTION

HILLE: WATER POLLU

TORM WATE LAN

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1/2" x 2' DOWEL BARS

SPACING AS SHOWN —

_____ON PLANS

TRANSVERSE DUMMY JOINTS 1/8" x 1" DEEP

SIDEWALK DETAIL

(N.T.S)

ONE END FIXED-ONE END CAPPED "FREE"

4" THICK 3000 PSI CONCRETE

-W/#6-6"X6"WWM.ON 2" THICK

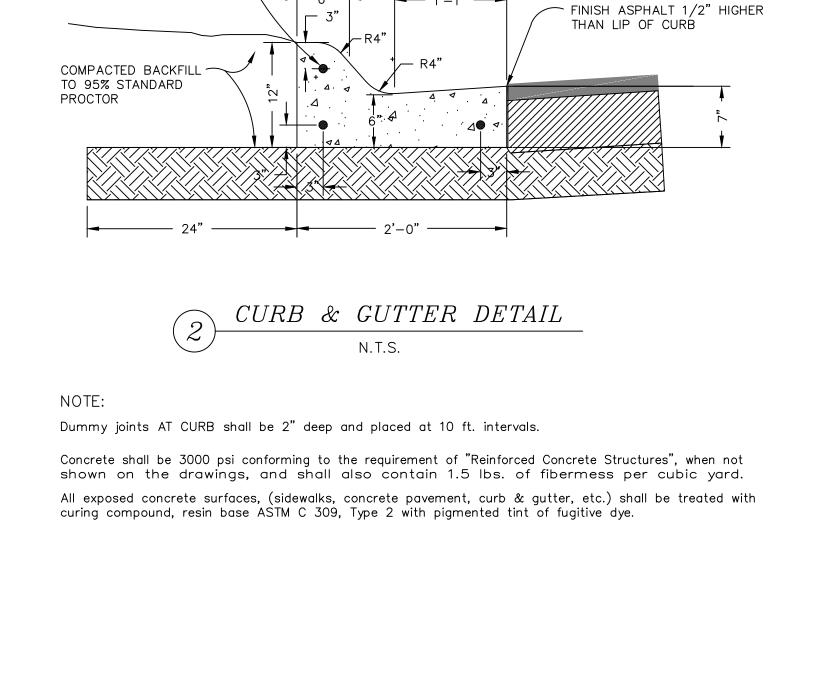
COMPACTED SAND LAYER

EXPANSION JOINTS

NOTE:

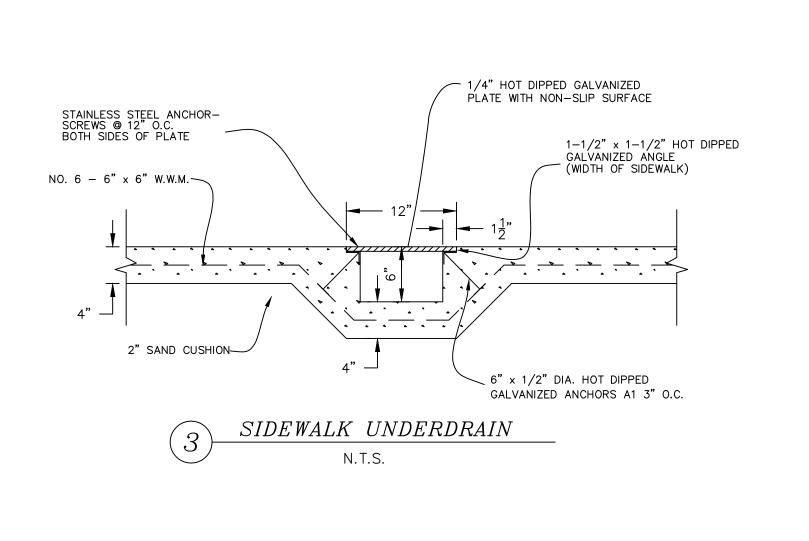
1/2" THICK ASPHALT IMPREGNATED -

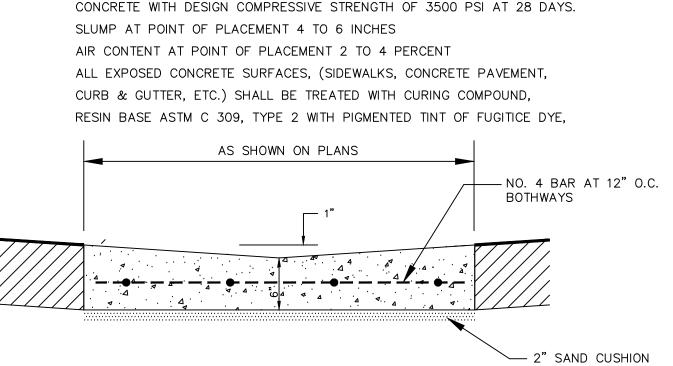
CONCRETE JOINT SPACING IS SHOWN IN THE ARCHITECTURAL DRAWINGS.



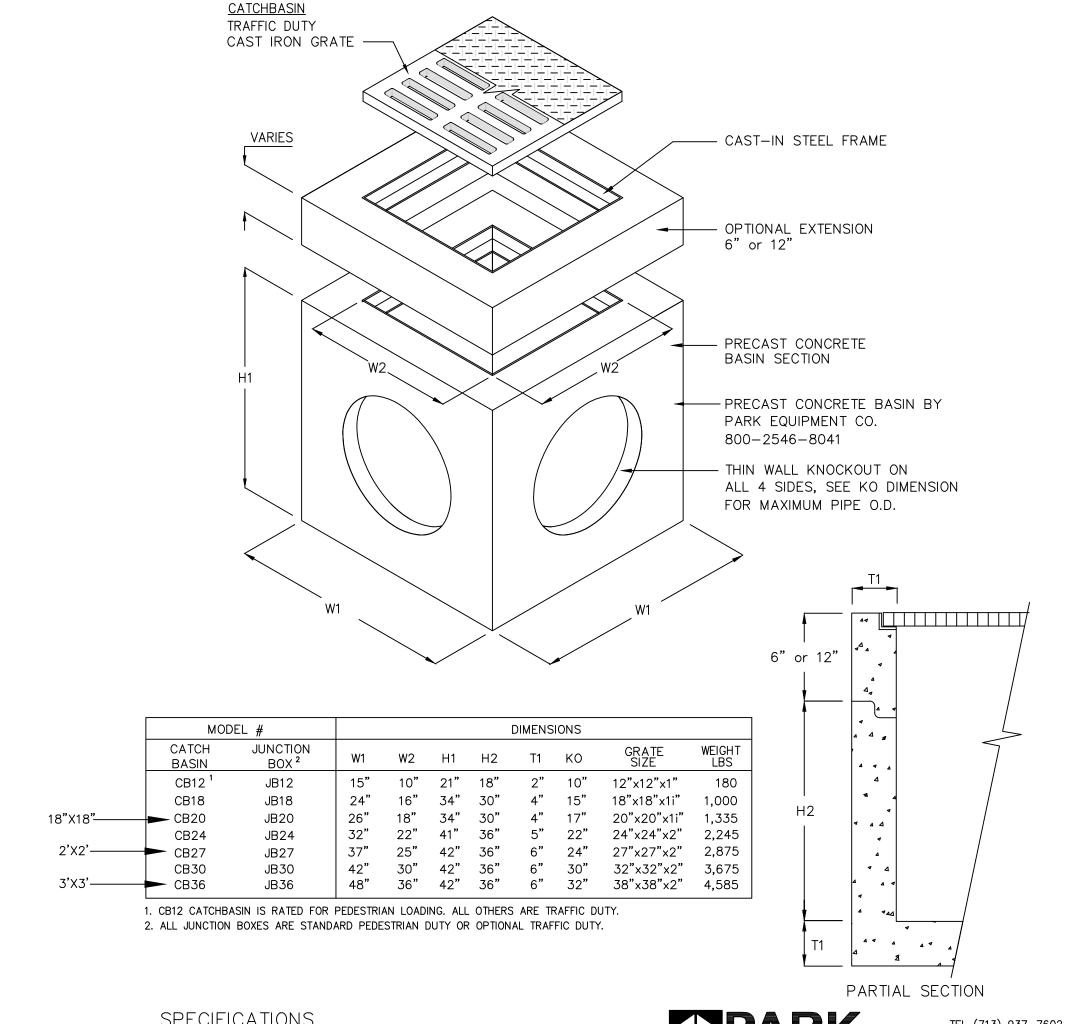
NO. 4 X 3' SMOOTH DOWELS -

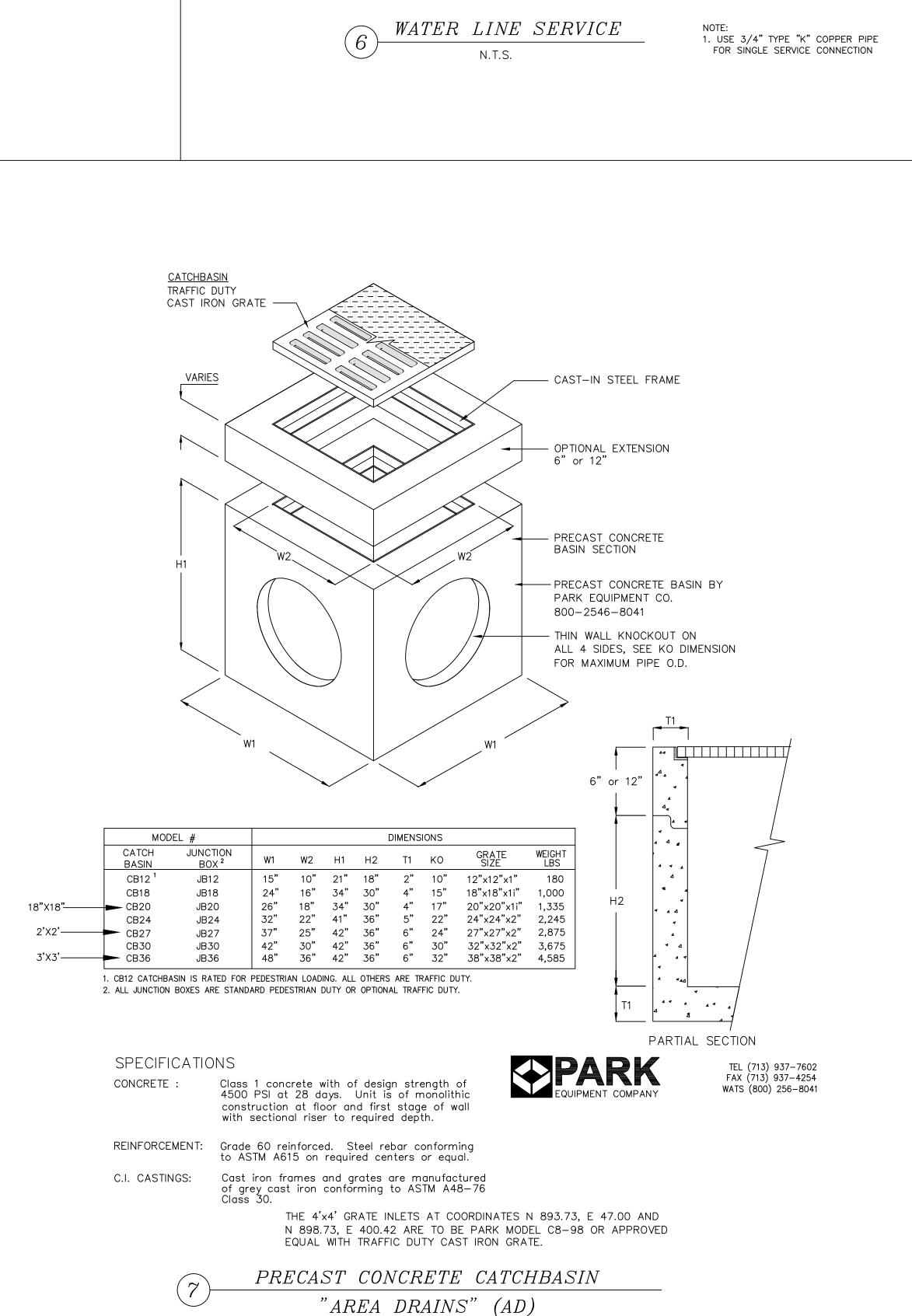
AT EXPANSION JOINTS (ONLY)

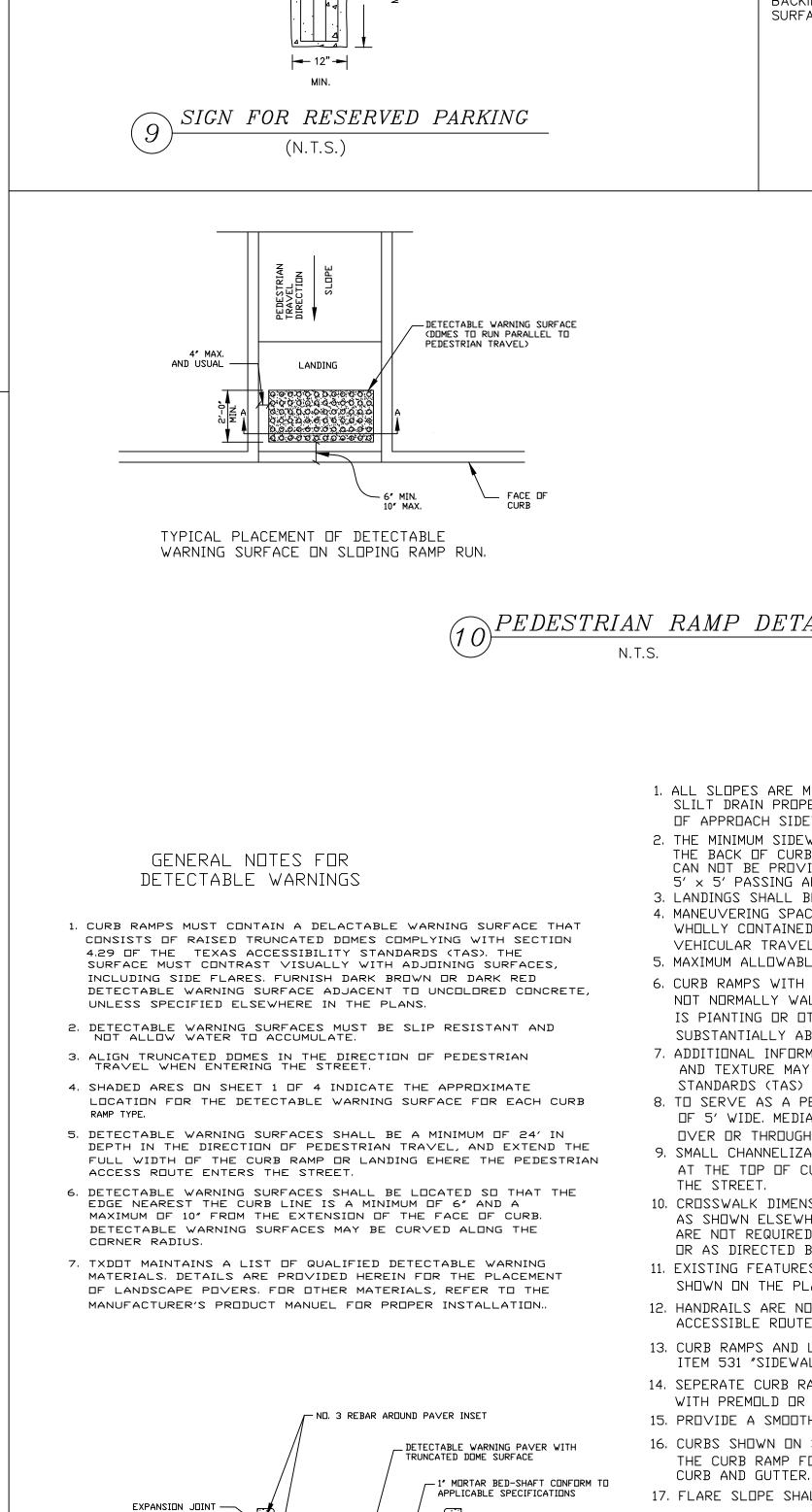












CONTROL JOINT PERMISSIBLE

CLASS A CONCRETE-SHALL CONFORM TO APPLICABLE SPECIFICATIONS

THROUGH POST)

ALUMINUM SIGN (TYPE "A") -

REFLECTIVE SHEETING

0.08 IN. THICK W/ ENG. GRADE

VAN ACCESSIBLE SIGN

2 3/8" O.D. GALV. STEEL PIPE (0.08 IN. WALL THICKNESS)

AS REQUIRED

2" SAND CUSHION

ND. 3 REBARS AT _ 18" (MAX.) DN-CENTER BDTH WAYS

UNLESS SPECIFIED ELSEWHERE IN THE PLANS.

GENERAL NOTES FOR SECTION A-A

1. CURB RAMPS MUST CONTAIN A DELACTABLE WARNING SURFACE THAT

4.29 OF THE TEXAS ACCESSIBILITY STANDARDS (TAS), THE

SURFACE MUST CONTRAST VISUALLY WITH ADJOINING SURFACES,

INCLUDING SIDE FLARES, FURNISH DARK BROWN OR DARK RED

CONSISTS OF RAISED TRUNCATED DOMES COMPLYING WITH SECTION

DETECTABLE WARNING SURFACE ADJACENT TO UNCOLORED CONCRETE,

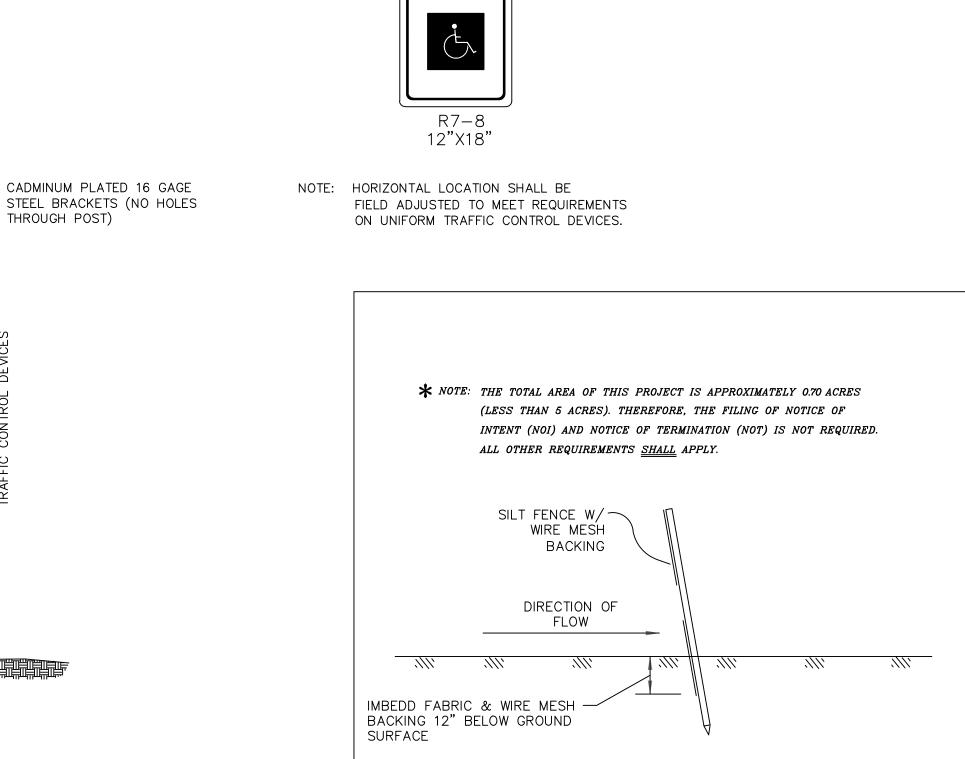
6" HOT DIPPED GALVANIZED

PIPE FILLED WITH CONCRETE

PAINTED YELLOW

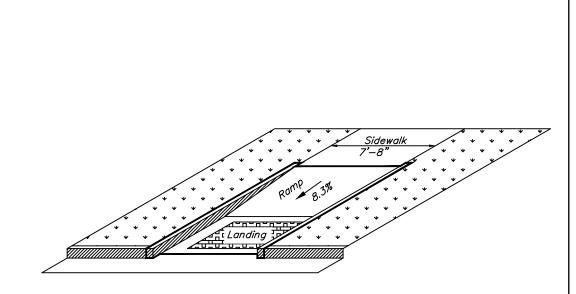
WHERE CALLED FOR

ON PLANS



RESERVED

PARKING



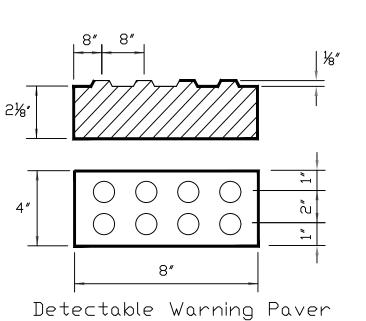
TO BE INSTALLED WHEREVER THERE IS POTENTIAL FOR

RUNOFF TO LEAVE SITE OR ENTER DRAINAGE SYSTEM.



PEDESTRIAN FACILITIES GENERAL NOTES

- 1. ALL SLOPES ARE MAXIMUM ALLOWABLE, THE LEAST POSSIBLE SLOPE THAT WILL SLILT DRAIN PROPERTY SHOULD BE USED, ADJUST CURB RAMP LENGTH OR GRADE OF APPROACH SIDEWALKS AS DIRECTED.
- 2. THE MINIMUM SIDEWALK WIDTH IS 5'. WHERE THE SIDEWALK IS ADJACENT TO THE BACK OF CURB, A 6' SIDEWALK WIDTH IS ENCOURAGED. WHERE A 5' SIDEWALK CAN NOT BE PROVIDED DUE TO SITE CONSTRAINTS, A MINIMUM 3' SIDEWALK WITH
- $5' \times 5'$ PASSING AREAS AT INTERVALS NOT TO EXCEED 200' IS REQUIRED. 3. LANDINGS SHALL BE 5' \times 5' MINIMUM WITH A MAXIMUM 2% SLOPE IN ANY DIRECTION. 4. MANEUVERING SPACE AT THE BOTTOM OF CURB RAMPS SHALL BE A MINIMUM OF 4' imes 4'WHOLLY CONTAINED WITHIN THE CROOSWALK AND WHOLLY OUTSIDE THE PARALLEL
- VEHICULAR TRAVEL PATH. 5. MAXIMUM ALLOWABLE CROSS SLOPE ON SIDEWALK AND CURB RAMP SURFACES IS 2%. 6. CURB RAMPS WITH RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP, EITHER BECAUSE THE ADJACENT SURFACE
- IS PIANTING OR OTHER NON-WALKING SURFACE OR BECAUSE THE SIDE APPROACH IS SUBSTANTIALLY ABSTRUCTED, OTHERWISE, PROVIDED FLARED SIDES. 7. ADDITIONAL INFORMATION ON CURB RAMP LOCATION, DESIGN, LIGHT REFLECTIVE VALUE
- AND TEXTURE MAY BE FOUND IN THE CURRENT EDITION OF THE TEXAS ACCESSIBILITY STANDARDS (TAS) AND 16 TAC 68.102 8. TO SERVE AS A PEDESTRIAN REFUGE AREA, THE MEDIAN SHOULD BE A MINIMUM OF 5' WIDE. MEDIANS SHOULD BE DESIGNED TO PROVIDE ACCESSIBLE PASSAGE
- OVER OR THROUGH THEM. 9. SMALL CHANNELIZATION ISLANDS, WHICH DO NOT PROVIDE A MINIMUM $5' \times 5'$ LANDING AT THE TOP OF CURB RAMPS, SHALL BE CUT THROUGH LEVEL WITH THE SURFACE OF
- THE STREET. 10. CROSSWALK DIMENSIONS, CROSSWALK MARKINGS AND STOP BAR LOCATIONS SHALL BE
- AS SHOWN ELSEWHERE IN THE PLANS. AT INTERSECTIONS WHERE CROSSWALK MARKINGS ARE NOT REQUIRED, CURB RAMPS SHALL BE ALIGNED WITH THEARETICAL CROSSWALKS, OR AS DIRECTED BY THE ENGINEER.
- 11. EXISTING FEATURES THAT COMPLY WITH TAS MAY REMAIN IN PLACE UNLESS OTHERWISE
- 12. HANDRAILS ARE NOT REQUIRED ON CURB RAMPS. PROVIDE CURB RAMPS WHEREVER ON ACCESSIBLE ROUTE CROSSES (PENETRATES) A CURB.
- 13. CURB RAMPS AND LANDINGS SHALL BE CONSTRUCTED AND PAID FOR IN ACCORDANCE WITH ITEM 531 "SIDEWALKS".
- 14. SEPERATE CURB RAMP AND LANDINGS FROM ADJACENT SIDEWALK AND ANY OTHER ELEMENTS WITH PREMOLD OR BOARD JOINT OF 3/4" UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 15. PROVIDE A SMOOTH TRANSITION WHERE THE CURB RAMPS CONNECT TO THE STREET 16. CURBS SHOWN ON SHEET 1 WITHIN THE LIMITS OF PAYMENT ARE CONSIDERED PART OF THE CURB RAMP FOR PAYMENT, WHETHER IT IS CONCRETE CURB, GUTTER, OR COMBINED
- 17. FLARE SLOPE SHALL NOT EXCEED 10% MEASURED ALONG CURB LINE.



SHEET

SET NUMBER

ROBERTO J. RUIZ

ARCHITECT, INC.

615 W. TANDY ROAD

BROWNSVILLE, TEXAS 78520

(956) 350-9195 OFFICE

(956) 350-9196 FAX

ARCH1RUIZ@AOL.COM

ARIEL CHAVEZ II

63882

1.08.2021

2. ALL CONSTRUCTION AND QUALITY OF MATERIALS SHALL COMPLY WITH THE GOVERNING BUILDING CODES AND REGULATIONS 3. THE CONTRACTOR SHALL Verify ALL DIMENSIONS, ELEVATIONS, TOLERANCES AND CONDITIONS AT THE JOB SITE BEFORE COMMENCEMENT OF WORK AND SHALL IMMEDIATELY REPORT ANY DISCREPANCIES OR OMISSIONS TO THE ARCHITECT AND ENGINEER IN WRITING. ANY OMISSION OR CONFLICT BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED. 4. IN CASE OF CONFLICT: NOTES AND DETAILS ON THE BALANCE OF THE DRAWINGS TAKE

PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. DRAWINGS TAKE PRECEDENCE OVER SPECIFICATIONS. WHERE CONSTRUCTION DETAILS ARE NOT SPECIFICALLY SHOWN OR NOTED FOR ANY PART OF THE WORK, SUCH DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH

DETAILS SHOWN FOR SIMILAR CONDITIONS AND MATERIALS. WHERE SUFFICIENTLY SIMILAR WORK IS NOT SHOWN, THE ENGINEER SHALL BE CONSULTED FOR CLARIFICATION. EACH SUBCONTRACTOR IS CONSIDERED AN EXPERT IN HIS RESPECTIVE FIELD AND SHALL PRIOR TO THE SUBMISSION OF A BID OR PERFORMANCE OF WORK, NOTIFY THE GENERAL CONTRACTOR, ARCHITECT, ENGINEER OR OWNER, IN WRITING OF ANY WORK CALLED OUT ON THE DRAWINGS IN HIS TRADE THAT CANNOT BE GUARANTEED OR PERFORMED AS

7. THE CONTRACTOR SHALL COORDINATE ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AS TO WEIGHTS AND EXACT LOCATIONS, WITH STRUCTURAL SUPPORTS. IN THE EVENT THAT THE PURCHASED EQUIPMENT DEVIATES IN WEIGHT AND LOCATION FROM THOSE INDICATED ON THE PLANS. THE ARCHITECT AND ENGINEER MUST BE NOTIFIED AND APPROVAL OBTAINED PRIOR TO INSTALLATION.

THIS STRUCTURE IS DESIGNED AS A STABLE UNIT AFTER ALL COMPONENTS ARE IN PLACE. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY BRACING AS REQUIRED TO INSURE THE VERTICAL AND LATERAL STABILITY OF THE ENTIRE STRUCTURE OR ANY PORTION THEREOF, DURING CONSTRUCTION.

9. NEITHER THE OWNER NOR THE ARCHITECT NOR THE ENGINEER WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND BRACING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS. 10. TRADE NAMES AND MANUFACTURERS REFERRED TO ARE FOR QUALITY STANDARDS ONLY.

SUBSTITUTIONS WILL BE PERMITTED AS APPROVED BY THE ENGINEER. 11. ANY OPTIONS OR APPROVED SUBSTITUTIONS ARE FOR CONTRACTORS CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES, ADDITIONAL COSTS (INCLUDING REDESIGN BY THE ENGINEER), AND COORDINATION WITH ALL ITEMS THAT THE SUBSTITUTIONS MAY IMPACT. 12. THE ARCHITECT AND ENGINEER ARE TO BE NOTIFIED IN WRITING WHEN CONSTRUCTION AT THE SITE BEGINS.

BE REFERRED TO THE ENGINEER. 14. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO LOCATE AND PROJECT ANY EXISTING UNDERGROUND OR CONCEALED CONDUIT, PLUMBING, OR OTHER UTILITIES PRIOR TO BEGINNING ANY WORK 15. PIPES, DUCTS, SLEEVES, CHASES, ETC. SHALL NOT BE PLACED IN BEAMS OR WALLS UNLESS SPECIFICALLY SHOWN OR NOTED. NOR SHALL ANY STRUCTURAL MEMBER BE CUT

DESIGN LOADS, STRUCTURAL ANALYSIS AND PREPARATIONS OF STRUCTURAL

FOR INSTALLATION OF ANY ADDITIONAL PIPES, DUCTS, ETC.

FOR PIPES, DUCTS, ETC. UNLESS NOTED CONTRACTOR SHALL OBTAIN PRIOR APPROVAL

13. ANY QUESTIONS RELATED TO INTERPRETATION OR INTENT OF THESE DRAWINGS SHALL

DESIGN CRITERIA

		RS ARE BASED UPON THE FOLLO	OWING COITEDIA:	JIVAL	
4	CODE:	RS ARE BASED UPON THE FOLL	JWING CRITERIA.	IBC	2018
1. 2.		L LOADS		.20	_0.0
۷.	A.	2		120	MPH
		EXPOSURE CATEGORY:		139 C	IVIPH
				_	
		IMPORTANCE FACTOR:		1.00	
	D.			II A	
	E.			A	
	F.			D	
	G.		,	D	
		Ss		0.056 g	
		S1	(0.014 g	
		Fa		2.5	
		Fv		3.5	
		Sms		0.140 g	
		Sm1		0.050 g	
		Sds	(0.093 g	
		Sd1	(0.033 g	
3.	VERTICA	AL LOADS			
	RO	OF:			
	A.	COLLATERAL LOAD:		0	PSF
	В.	DEAD LOAD:	ACTUAL W	EIGHT	PSF
	C.	LIVE LOAD: (REDUCIBLE)			PSF
	D.	WIND UPLIFT LOAD (NET):	AS CALCULATED BY SUB-CONTRA	CTOR	PSF
	E.	GROUND SNOW LOAD:		0	PSF
	F.	CRANE LOADS:		NONE	
	G.	MECHANICAL UNITS	SEE F	PLANS	
	FLC	OOR:			
	Α.	DEAD LOAD:		50	PSF
	В.	LIVE LOAD, OFFICE:		50	PSF
		LIVE LOAD, LIGHT STORAGE		125	PSF
		LIVE LOAD, HEAVY STORAGE:			PSF
		LIVE LOAD, ROOMS			PSF
	F.	LIVE LOAD, CORRIDOR:			PSF
	G.	MECHANICAL UNITS	SEE F	PLANS	
	0.10011				
4.		RFACE INFORMATION	latartal DOL 000	100407	
		PREPARED BY:	Intertek PSI, 03	122187	
	B.	SHALLOW FOUNDATION			
		MINIMUM FOOTING DEPTH:			INCHES
		MINIMUM FOOTING WIDTH:		12	INCHES
		ALLOWABLE BEARING PRESSU		2000	PSF
		ALLOWABLE BEARING PRESSU		2000	PSF
		WIRE REINFORCEMENT INSTITU	JTE (WRI) CRITERIA		
		CLIMATIC RATING (Cw)		15	

EFFECTIVE PLASTICITY INDEX (UNDISTURBED, NATIVE SOIL)

2.0 INCHES

1.0 INCH

EFFECTIVE PLASTICITY INDEX (SITE IMPROVED SOIL)

ABBREVIATIONS

TYP	TYPICAL
SIM	SIMILAR
T&S	TYPICAL AND SIMILAR
U.N.O.	UNLESS NOTED OTHERWISE
CLR	CLEAR
(V)	VERTICAL
CA	COLUMN ABOVE

PVR (UNDISTURBED SOIL)

PVR (WITH SITE IMPROVEMENT)

SPECIAL NOTES TO OWNER

1. UNDER NORMAL CONDITIONS, AND FOR CONVENTIONAL BUILDINGS SUCH AS THE SUBJECT MATTER, REINFORCED CONCRETE AND MASONRY DEVELOP CRACKS. THE CRACKS ARE DUE TO INHERENT SHRINKAGE OF CONCRETE, CREEP AND RESTRAINING EFFECTS OF VERTICAL AND OTHER STRUCTURAL ELEMENTS TO WHICH THE BEAMS/SLABS ARE TIED. THE CRACKS FORMED ARE NORMALLY COSMETIC. THE SLAB MAINTAINS ITS Serviceability AND STRENGTH REQUIREMENTS. IT IS EMPHASIZED THAT ALTHOUGH SPECIAL EFFORT IS MADE TO REDUCE THE POTENTIAL CAUSES AND NUMBER OF SUCH CRACKS, IT IS NOT PRACTICAL TO PROVIDE TOTAL ARTICULATION BETWEEN THE FLOOR SYSTEM AND ITS SUPPORTS AND THEREBY ACHIEVE COMPLETE INHIBITION OF ALL CRACKS.

3. MOST SUCH CRACKS DEVELOP OVER THE FIRST THREE YEARS OF THE LIFE OF THE FLOOR SYSTEM. CRACKS WHICH ARE WIDER THAN 0.01 INCH MAY NEED TO BE PRESSURE EPOXIED.

REFER TO THE NOTES UNDER "ALLOWANCES". 4. THE OBJECT OF THE JOINTS PROVIDED IS TO ALLOW MOVEMENT. MOVEMENTS DUE TO CREEP AND SHRINKAGE MAY BE NOTICEABLE AT JOINTS UP TO TWO YEARS AFTER CONSTRUCTION, BEYOND WHICH MOVEMENTS DUE TO VARIATIONS IN TEMPERATURE WILL

	Sheet List
Sheet Number	Sheet Name
S101	General Notes
S201	Plans
S401	Typical Concrete Details

SHOP DRAWINGS AND SUBMITTALS

1. SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED FOR REVIEW TO THE ENGINEER FOR EACH STRUCTURAL BUILDING MATERIAL AS INDICATED IN THE STRUCTURAL GENERAL NOTES AND THE CONTRACT SPECIFICATIONS. SEE THE CONTRACT SPECIFICATIONS FOR SUBMITTAL PROCEDURES AND ADDITIONAL INFORMATION 2. SHOP DRAWINGS SHALL USE DRAFTING LINE WORK AND LETTERING THAT IS CLEARLY LEGIBLE. SHOP DRAWINGS SHALL NOT CONTAIN NO REPRODUCTIONS OF THE CONTRACT DRAWING PLANS OR DETAILS.

SUBMIT SHOP DRAWINGS IN PDF FORMAT. SHOP DRAWINGS SHALL NOT SHOW MATERIALS FOR MORE THAN ONE LEVEL OF THE SAME PLAN. SHOP DRAWINGS SHALL SHOW CLEAR AND COMPLETE INFORMATION FOR THE FABRICATION (DETAIL SHEETS AND/OR MATERIAL LISTS) AND INSTALLATION. 6. ALLOW A MINIMUM OF (2) WEEKS FOR REVIEW OF EACH SET OF SHOP DRAWINGS.

CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS SUBMITTED BY THE SUB-CONTRACTOR AND COORDINATE SHOP DRAWINGS WITH ALL OTHER TRADING. CONTRACTOR SHALL ANSWER ALL QUESTIONS OR CLARIFICATIONS BY THE SUB-CONTRACTOR BEFORE SUBMITTING TO ENGINEER FOR REVIEW. ANY QUESTIONS THAT THE CONTRACTOR CANNOT ANSWER WITH THE INFORMATION ON THE DRAWINGS SHALL CLEARLY BE MARKED FOR THE ENGINEER FOR REVIEW. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS, SEE NOTE NUMBER 3

UNDER GENERAL NOTES. 10. REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS FOR GENERAL CONFORMANCE TO THE STRUCTURAL DRAWINGS. REVIEW OF THE SHOP DRAWINGS BY THE ENGINEER DOES NOT RELIEF THE CONTRACTOR FOR ANY ERRORS IN DIMENSIONS OR MATERIALS

INDICATED ON THE SHOP DRAWINGS. IF THERE IS ANY DISCREPANCY BETWEEN THE STRUCTURAL DRAWINGS AND SHOP DRAWINGS. THE INFORMATION SHOWN ON THE STRUCTURAL DRAWINGS GOVERN. INFORMATION THAT IS NOT INDICATED ON THE SHOP DRAWINGS SHALL BE OBTAINED

PROVIDE SUBMITTALS FOR THE FOLLOWING ITEMS: **REQUIRED** A. CONCRETE MIX DESIGN B. CURING COMPOUND FOR CONCRETE . REINFORCING STEE D. STRUCTURAL STEEL E. STEEL JOIST F. METAL DECKING (INDICATE LAYOUT AND TYPES OF DECK PANELS, ANCHORAGE DETAILS, REINFORCING CHANNELS, PANS, DECK OPENINGS, SPECIAL JOINTING, ACCESSORIES, AND ATTACHMENTS TO OTHER CONSTRUCTION.) G. PRE-MANUFACTURED METAL BUILDING (INCLUDE CALC'S & REACTIONS)

REINFORCING STEEL

FROM THE STRUCTURAL DRAWINGS.

H. PRE-MANUFACTURED WOOD TRUSSES

BAR REINFORCEMENT SHALL CONFORM TO THE FOLLOWING GRADES OF ASTM A615, INCLUDING SUPPLEMENT S1. GRADE 40 - #3 AND SMALLER GRADE 60 - #4 AND LARGER. DETAILS OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH CHAPTER 7 OF THE AMERICAN CONCRETE INSTITUTE (ACI) 318, UNLESS OTHERWISE NOTED VERTICAL REINFORCEMENT SHALL BE TIED OR OTHERWISE FIXED IN POSITION AT THE TOP AND BOTTOM AND AT INTERMEDIATE LOCATIONS. SPACED NOT GREATER THAN 192 BAR DIAMETERS OR 48" O.C. WHICH EVER IS LESS. IN MASONRY CONSTRUCTION. THE REINFORCEMENT SHALL BE SECURED IN PLACE WITH REBAR SPACERS AND SHALL NOT BE SPACED APART MORE THAN 48 INCHES ON CENTER. WELDED STEEL WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ASTM A185. WALLS, PILASTER, COLUMNS SHALL BE DOWELED TO THE SUPPORTING FOOTINGS WITH

REINFORCEMENT OF THE SAME SIZE, GRADE AND AT THE SAME SPACING AS THE VERTICAL REINFORCEMENT IN THE WALLS, PILASTER, OR COLUMNS. 6. BAR SUPPORTS SHALL BE PROVIDED IN ACCORDANCE WITH THE PROVISIONS OF "BAR SUPPORT SPECIFICATIONS" AS CONTAINED IN THE LATEST EDITION OF THE "MANUAL OF STANDARD PRACTICE" BY THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI). PLASTIC CHAIRS ARE NOT ALLOWED. FOR SLAB ON GRADE AND GRADE BEAMS, USE CONCRETE BRICK CHAIRS

7. REINFORCING STEEL DETAILING, BENDING AND PLACING SHALL BE IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE", LATEST 8. ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE BEFORE PLACING CONCRETE OR GROUT: INCLUDING EXTERIOR DOWELS FOR CMU OR CONCRETE WALLS. PROVIDE CORNER BARS TOP AND BOTTOM AT ALL BEAM CORNERS AND DEAD END BEAM INTERSECTIONS. BARS TO EQUAL SIZE AND QUANTITY OF THE NOTED BEAM STEEL. BARS

SHALL LAP BEAM REINFORCEMENT 40 BAR DIAMETERS. BARS DETAILED AS CONTINUOUS SHALL BE LAPPED 40 BAR DIAMETERS AT SPLICES. 11. EXTEND THE SLAB REINFORCING STEEL, PERPENDICULAR TO BEAM, TO THE TOP OUTSIDE REINFORCING BAR OF PERIMETER BEAMS. START THE SLAB REINFORCING STEEL, PARALLE

TO BEAM, NOT MORE THAN 6" FROM THE TOP INSIDE REINFORCING BAR OF PERIMETER 12. PROVIDE #4 "Z" BARS AT 12" ON CENTER WHERE THE SLAB STEPS DOWN MORE THAN 3". THE "Z" BARS SHALL LAP THE MAIN SLAB REINFORCING STEEL 40 BAR DIAMETERS.

13. ALL CONDUIT OR PLUMBING LINES IN SLAB SHALL BE PLACED BELOW SLAB REINFORCING. ALL CONDUIT TO BE NO GREATER THAN 1" DIAMETER AND TO BE PLACED IN CENTER OF SLAB. NO PLUMBING LINES GREATER THAN 1 INCH ALLOWED IN THE SLAB. 14. WELDING OF CROSSING BARS AND TACK WELDING OF REINFORCEMENT SHALL NOT BE

15. WELDING OF REINFORCING STEEL, IF PERMITTED BY THE STRUCTURAL ENGINEER, SHALL BE PERFORMED IN ACCORDANCE WITH THE "STRUCTURAL WELDING CODE REINFORCING STEEL" ON THE AMERICAN WELDING SOCIETY, AWS D1 4-96 AS INCORPORATED IN CBC CHAPTER No. 19, AND BY CERTIFIED WELDERS QUALIFIED USING PROCEDURES CONTAINED THEREIN, E70XX ELECTRODES SHALL BE USED IN WELDING GRADE 60 REINFORCEMENT. REINFORCEMENT SHALL NOT BE WELDED UNTIL A CHEMICAL ANALYSIS SUFFICIENT TO DETERMINE THE CARBON EQUIVALENT (C.E.) IS PERFORMED. THE C.E. OF REINFORCING STEEL SHALL BE CALCULATED FORM THE CHEMICAL COMPOSITION AS SHOWN IN THE MILL TEST REPORT. IF MILL TEST REPORTS ARE NOT AVAILABLE. A CHEMICAL ANALYSIS SHALL BE MADE ON REINFORCEMENT REPRESENTATIVE OF THOSE TO BE WELDED. THE C.E. SHALL NOT EXCEED 0.55 AS CALCULATED PER IBC CHAPTER 19, A COPY OF THE MILL TEST OF REINFORCING STEEL IN CONCRETE MEMBERS. (SPECIAL INSPECTION IS REQUIRED FOR ALL

16. CONTRACTOR SHALL SUBMIT REINFORCING STEEL SHOP DRAWINGS FOR REVIEW BEFORE FABRICATION AND INSTALLATION. 17. CONCRETE COVER FOR REINFORCING AS FOLLOWS:

EXPOSURE CONDITION	MINIMUM COVER	TOLERANCE
DRILLED PIERS, FOOTINGS AND OTHER PRINCIPAL STRUCTURAL MEMBERS IN WHICH CONCRETE IS DEPOSITED AGAINST GROUND:	3"	3/8"
WHERE CONCRETE SURFACES, AFTER REMOVAL OF FORMS, ARE EXPOSED TO WEATHER OR GROUND:		
FOR BARS 5/8" IN DIAMETER	2"	1/4"
FOR BARS 5/8" OR LESS IN DIAMETER	1 1/2"	1/4"
WHERE SURFACES ARE NOT DIRECTLY EXPOSED TO WEATHER OR GROUND:		
FOR SLAB ON GRADE (FROM TOP OF SLAB)	1 1/2"	1/4"
FOR BEAMS, COLUMNS	1 1/2"	1/4"
FOR JOISTS AND SLABS	1"	1/8"

18. LAPS AT BAR SPLICES, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:

MASONRY - GRADE 60: LAP 50 DIA. (30" MIN.) GRADE 40: LAP 48 DIA. (24" MIN.

OIVADE 40. EAI	40 DIA. (24 WIII	N.)	
- LAP PER SCH	IEDULE BELOW		
BAR SPLICE	LAP LENGTH IN	I CONCRETE	
f'c =	f'c =	f'c =	f'c =
2000 PSI	3000 PSI	4000 PSI	5000 PSI
22	22	22	22
29	29	29	29
40	36	36	36
57	46	43	43
77	63	54	54
100	82	71	71
128	104	90	90
162	132	115	115
200	163	141	141
R WELDED WIRE FABRIC: SPACING OF WIRE PLUS 12".			
	E - LAP PER SCH BAR SPLICE fc = 2000 PSI 22 29 40 57 77 100 128 162 200	E - LAP PER SCHEDULE BELOW BAR SPLICE LAP LENGTH IN f'c = f'c = 2000 PSI 3000 PSI 22 22 29 29 40 36 57 46 77 63 100 82 128 104 162 132 200 163	BAR SPLICE LAP LENGTH IN CONCRETE fc = f'c = f'c = 2000 PSI 3000 PSI 4000 PSI 22 22 22 29 29 29 40 36 36 57 46 43 77 63 54 100 82 71 128 104 90 162 132 115 200 163 141

CAST-IN-PLACE CONCRETE

FLATNESS (F)

1. VERIFY ALL DIMENSIONS. COORDINATE WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT AND/OR ENGINEER OF ANY DISCREPANCIES. 2. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE SPECIFICATIONS, ACI #301-05, OR LATEST EDITION. DRILLED PIERS SHALL

COMPLY WITH ACI 336.1-01 AND ACI 336.3R-05 3. ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS, ACCESSORIES UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE", ACI #315 LATEST EDITION 4. THE MINIMUM 28 DAYS CYLINDER STRENGTH SHALL BE AS FOLLOWS: SIZE OF LARGE | WATER/CEMENT MAXIMUM RATIO AT 28 DAYS SLUMP AGGREGATE **FOUNDATIONS** 3000 PSI

SLAB ON GRADE 3000 PSI GRADE BEAMS 5. NO HORIZONTAL CONSTRUCTION JOINTS WILL BE PERMITTED IN SLABS OR BEAMS. 6. VERTICAL CONSTRUCTION JOINTS IN SLABS ARE TO BE AS SHOWN ON PLANS OR AS 7. ALL OPENINGS IN SLAB (FOR PIPING, DRAINS, ETC.) SHALL BE SEALED WITH 1/2 SEALANT '2A' (SELF-LEVELING 2-PART POLYURETHANE).

SOME DEGREE OF FLEXIBILITY OR WITH SLEEVES IN ORDER TO PREVENT DAMAGE TO THESE LINE SHOULD VERTICAL MOVEMENT OCCUR. 9. BACKFILL AROUND PERIMETER TO PROVIDE POSITIVE DRAINAGE AWAY FROM SLAB FLOOR TOLERANCES F-NUMBER SYSTEM COMPOSITE MINIMUM LOCAL VALUE

LEVELNESS (F IN ALL INSTANCES MINIMUM SLAB THICKNESS SHALL BE OBTAINED. COORDINATE SLAB FINISHES WITH ARCHITECTURAL PLANS. 11. ANCHOR BOLTS, DOWELS, INSERTS, ETC. SHALL BE SECURELY TIED IN PLACE PRIOR TO PLACING CONCRETE REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR

8. UTILITIES THAT PROJECT THROUGH SLAB FLOORS SHOULD BE DESIGNED WITH EITHER

ALL MOLDS, GROOVES, REGLETS, ORNAMENTAL CLIPS, PIPES, CONDUITS, INSERTS, ETC. TO BE CAST IN CONCRETE. PROVIDE OVERSIZED SLEEVES FOR PLUMBING AND ELECTRICAL CONDUITS AND PIPES. NO PIPES OR DUCTS SHALL BE PLACED IN CONCRETE, FOOTINGS, OR SLAB UNLESS SPECIFICALLY DETAILED IN THESE PLANS, OR AS DIRECTED BY THE ENGINEER.

13. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED. 14. CONCRETE TESTING SHALL BE ONE SET OF CYLINDERS FOR EVERY 50 CUBIC YARDS OR PORTION THEREOF FOR EACH TYPE OF CONCRETE POURED ON ANY GIVEN DAY. ONE SET CONSISTS OF 2 CYLINDERS TESTED FOR COMPRESSION AT 7 DAYS AND 2 CYLINDERS AT 28 DAYS.

VAPOR RETARDANT A. VAPOR RETARDANT (UNDER SLAB): SHALL CONFORM TO ASTM E1745, CLASS A OR BETTER AND SHALL HAVE A MINIMUM WATER VAPOR PERMEANCE OF 0.01 PERMS WHEN TESTED IN ACCORDANCE WITH ASTM E96. VAPOR RETARDANT SHALL BE NOT

APPROVED PRODUCTS A. STEGO WRAP BY STEGO INDUSTRIES LLC. (887) 464-7834.

LESS THAN 15 MILS THICK.

GRIFFOLYN T-65 BY REEF INDUSTRIES (800) 231-6074. C. RUFCO D16WB BY RAVEN IND. AT TEXAS ENVIRONMENTAL PLASTIC: (281) 821-7320. INSTALLATION A. LAY SHEETS SMOOTHLY, STRETCH AND WEIGHT EDGES, LAP JOINTS TWELVE (12) INCHES AND SEAL WITH TAPE AS SPECIFIED BY VAPOR RETARDANT MANUFACTURER.

TURN BARRIER UP SIX 6 INCHES AT WALLS AND AT ALL PIPES, ABUTMENTS, ETC. TAPE AND SEAL AT PENETRATIONS AND AT EDGES. B. AT GRADE BEAMS. EXTEND VAPOR RETARDANT DOWN SIDES OF BEAM TRENCHES (AND FOOTING EXCAVATIONS) TO WITHIN 4" OF TRENCH BOTTOM AND SECURE TO SIDES OF TRENCH. DO NOT EXTEND RETARDANT ACROSS BOTTOM OF BEAM TRENCH. PATCHING:

TAPE AROUND ENTIRE PERIMETER OF REPAIR. 16. ALL CONDUIT OR PLUMBING LINES IN SLAB SHALL BE PLACED BELOW SLAB REINFORCING. ALL CONDUITS OR PLUMBING LINES SHALL NOT BE GREATER THAN 1 INCH DIAMETER AND SHALL BE PLACED NEAR THE CENTER OF THE SLAB AS MUCH AS POSSIBLE.

A. PATCH ALL PUNCTURES WITH A MINIMUM OVERLAP OF 6" IN ALL DIRECTIONS AND

A. PRE-INSTALLATION CONFERENCE: 1. AT LEAST 30 DAYS PRIOR TO THE START OF THE CONCRETE SLAB CONSTRUCTION SCHEDULE, THE CONTRACTOR SHALL CONDUCT A MEETING TO REVIEW THE PROPOSED MIX DESIGNS AND TO DISCUSS THE REQUIRED METHODS AND PROCEDURES TO ACHIEVE THE REQUIRED CONCRETE CONSTRUCTION. THE CONTRACTOR SHALL SEND

A PRE-CONCRETE CONFERENCE AGENDA TO ALL ATTENDEES 20 DAYS PRIOR TO THE SCHEDULED DATE OF THE CONFERENCE. 2. THE CONTRACTOR SHALL REQUIRE RESPONSIBLE REPRESENTATIVES OF EVERY PARTY CONCERNED WITH THE CONCRETE WORK TO ATTEND THE CONFERENCE, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

A) CONTRACTOR'S SUPERINTENDENT B) LABORATORY RESPONSIBLE FOR CONCRETE MIXES AND/ OR FIELD QUALITY CONTROL C) READY-MIX CONCRETE PRODUCER

E) ADMIXTURE MANUFACTURER(S) F) LIQUID DENSIFIER AND SEALER MANUFACTURER G) LIQUID DENSIFIER AND SEALER APPLICATION

D) CONCRETE SUBCONTRACTOR

H) JOINT FILLING APPLICATOR MINUTES OF THE MEETING SHALL BE RECORDED, TYPED AND PRINTED BY THE CONTRACTOR AND DISTRIBUTED BY HIM TO ALL CONCERNED PARTIES, INCLUDING THE OWNER'S REPRESENTATIVE, THE ARCHITECT, AND THE STRUCTURAL ENGINEER WITHIN FIVE DAYS OF THE MEETING.

CONCRETE SUBCONTRACTOR QUALIFICATION: THE CONCRETE SUBCONTRACTOR SHALL INCLUDE IN THEIR BID PACKAGE TO THE CONTRACTOR, SUFFICIENT DATA THAT CLEARLY INDICATES THE CONCRETE CONTRACTOR'S ABILITY TO SUCCESSFULLY PERFORM THE WORK AND TO ACHIEVE THE FLOOR SLAB TOLERANCES SPECIFIED IN THIS SECTION. THE CONCRETE SUBCONTRACTOR'S TEAM SHALL HAVE PARTICIPATED IN THE MAJORITY OF THESE PROJECTS, AND THAT TEAM SHALL REMAIN THE SAME THROUGH THE DURATION OF THIS PROJECT.

CONCRETE MATERIAL: PORTLAND CEMENT: ASTM C 150, TYPE I. USE ONE BRAND OF CEMENT

THROUGHOUT THE PROJECT 2. COARSE AND FINE AGGREGATES: ASTM C33. COMBINED AGGREGATE GRADATION FOR SLABS ON GRADE AND OTHER DESIGNATED CONCRETE SHALL BE 8% - 18% FOR LARGE TOP AGGREGATES (1 1/2") OR 8% - 22% FOR SMALLER TOP SIZE AGGREGATES (1" OR 3/4") RETAINED ON EACH SIEVE BELOW THE TOP SIZE AND ABOVE THE NO. 100 SIEVE. SLABS ON GRADE SHALL HAVE A MAXIMUM AGGREGATE SIZE OF 1-1/2" FOOTINGS AND PIERS 1" AND BEAMS 3/4".

WATER: COMPLYING WITH ASTM C 94. ALL CONCRETE SHALL CONTAIN "POZZOLITH" ADMIX AS PER MANUFACTURER'S SPECIFICATIONS, IN ACCORDANCE WITH ASTM C494.

ADMIXTURES: AIR-ENTRAINING ADMIXTURES: SHALL CONFORM TO ASTM C-260. ADMIXTURE MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION THAT THE AIR-ENTRAINING ADMIXTURE IS COMPATIBLE WITH OTHER REQUIRED ADMIXTURES. ALL EXTERIOR SLABS SHALL BE AIR-ENTRAINED (4% - 6%). ACCEPTABLE PRODUCTS: EUCLID CHEMICAL AEA-92 AND AIRMIX 200, MASTER BUILDERS MICROAIR, W.R. GRACE DARAVAIR 1000 AND DAREX-11.

NOTE: AIR-ENTRAINING ADMIXTURE SHALL NOT BE USED ON INTERIOR CONCRETE. WATER-REDUCING ADMIXTURE: SHALL CONFORM TO ASTM C494. TYPE A AND CONTAIN NOT MORE THAN 0.05% CHLORIDE IONS. ACCEPTABLE PRODUCTS: EUCLID CHEMICAL WR-89 AND WR-91. MASTER BUILDERS 200N AND 322N. W.R. GRACE WRDA 36 AND WRDA 64. WATER REDUCING, RETARDING ADMIXTURE: SHALL CONFORM TO ASTM C494, TYPE D, AND CONTAIN NOT MORE THAN 0.05% CHLORIDE IONS. ACCEPTABLE PRODUCTS:

W.R. GRACE DARATARD 17. 4. HIGH RANGE WATER-REDUCING ADMIXTURE (SUPERPLASTICIZER): SHALL CONFORM TO ASTM C494, TYPE F OR TYPE G AND CONTAIN NOT MORE THAN 0.05% CHLORIDE IONS. ACCEPTABLE PRODUCTS: EUCLID CHEMICAL EUCON 37, MASTER BUILDERS

EUCLID CHEMICAL RETARDER 75, MASTER BUILDERS POZZOLITH R,

REOBUILD 1000 W.R. GRACE DARACEM - 1000. WATER-REDUCING, NON-CORROSIVE ACCELERATING ADMIXTURE: SHALL CONFORM TO ASTM C494, TYPE C OR E, AND CONTAIN NOT MORE CHLORIDE IONS THAN ARE PRESENT IN MUNICIPAL DRINKING WATER. THE ADMIXTURE MANUFACTURER MUST HAVE LONG-TERM. NON-CORROSIVE TEST DATA FROM AN INDEPENDENT TESTING LABORATORY (OF AT LEAST A YEAR'S DURATION) USING AN ACCEPTABLE ACCELERATED CORROSION TEST METHOD SUCH AS THAT USING ELECTRICAL POTENTIAL MEASURES. ACCEPTABLE PRODUCTS: EUCLID CHEMICAL ACCELGUARD 80/90 AND ACCELGUARD NCA. MASTER BUILDERS NC534 AND POZZUTEC 20, W.R. GRACE POLARSET.

a.) CALCIUM CHLORIDE OR ADMIXTURES CONTAINING MORE THAN 0.05% CHLORIDE IONS ARE NOT PERMITTED. b.) FLYASH; A MAXIMUM OF 20% AS CEMENT REPLACEMENT ALLOWED

PROHIBITED ADMIXTURES:

F. EVAPORATION RETARDER: 1. WATERBORNE, MONOMOLECULAR FILM FORMING, MANUFACTURED FOR APPLICATION TO FRESH CONCRETE

a.) ACCEPTABLE PRODUCTS "EUCOBAR" BY THE EUCLID CHEMICAL COMPANY - CONTACT: PHIL BRANDT (877) 438-3826

CURING MATERIALS: EXTERIOR CURING: ALL EXTERIOR CONCRETE SLABS SHALL BE CURED USING A LIQUID MEMBRANE-FORMING CURING COMPOUND. THE LIQUID MEMBRANE-FORMING CURING COMPOUND SHALL MEET THE REQUIREMENTS OF ASTM C 1315 WITH A MAXIMUM V.O.C. CONTENT OF 700 G/L. a.) ACCEPTABLE PRODUCTS:

"SUPER REZ SEAL" BY EUCLID CHEMICAL COMPANY - CONTACT PHIL BRANDT (877) 438-3826 INTERIOR CURING: ALL INTERIOR CONCRETE SLABS SHALL BE CURED USING A REDUCED ODOR, DISSIPATING LIQUID MEMBRANE FORMING CURING COMPOUND THAT IS FORMULATED FROM HYDROCARBON RESINS. THE DISSIPATING LIQUID MEMBRANE FORMING CURING COMPOUND SHALL MEET THE REQUIREMENTS OF ASTM C-309 AND V.O.C. CONTENTS IN ACCORDANCE TO EPA 40 CFR, PART 59, TABLE I, SUBPART D FOR CONCRETE CURING COMPOUNDS WITH A MAXIMUM V.O.C. CONTENT OF 350 G/L. APPLY AT 400 S.F./GALLON.

a.) ACCEPTABLE PRODUCTS: "KUREZ DR VOX" BY THE EUCLID CHEMICAL COMPANY - CONTACT PHIL BRANDT (877) 438-3826 ALL CONCRETE SLABS SHALL ALSO BE MAINTAINED MOIST FOR 7 DAYS

CONCRETE MIXES COMPLY WITH ACI 301 REQUIREMENTS FOR CONCRETE MIXTURE, U.N.O.

PREPARE DESIGN MIXES SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, PROPORTIONED ACCORDING TO ACI 301, FOR NORMAL WEIGHT CONCRETE DETERMINED BY EITHER LABORATORY TRIAL MIX OR FIELD TEST DATA AS FOLLOWS: CONCRETE MATERIALS INCLUDED IN THE MIX DESIGN SHALL BE THE SAME MATERIALS PROVIDED TO THE PROJECT, AND SHALL BE PREPARED BY AN INDEPENDENT TESTING LABORATORY APPROVED BY THE OWNER. THE LABORATORY MIX DESIGN SHALL NOT EXCEED THE DESIRED JOB STRENGTH OF CONCRETE BY 1,200 PSI, FOUR COPIES OF THE MIX DESIGN SHALL BE SUBMITTED TO THE OWNER BEFORE CONCRETE WORK

SLUMP: CONCRETE CONTAINING HRWR SHALL HAVE A MAXIMUM SLUMP OF 8" (200MM).

ALL OTHER CONCRETE SHALL NOT EXCEED 4 INCHES (100 MM) UNLESS OTHERWISE INDICATED ON THE DRAWINGS. 4. ADJUSTMENT TO CONCRETE MIXES: MIX DESIGN ADJUSTMENTS MAY BE REQUESTED BY CONTRACTOR WHEN CHARACTERISTICS OF MATERIALS, JOB CONDITIONS, WEATHER. TEST RESULTS OR OTHER CIRCUMSTANCES WARRANT, AT NO ADDITIONAL COST TO OWNER AND AS ACCEPTED BY OWNER. LABORATORY TEST DATA FOR REVISED MIX DESIGN AND STRENGTH RESULTS MUST BE SUBMITTED TO AND ACCEPTED BY OWNER BEFORE USING IN WORK. BOTH THE CONCRETE TESTING AND INSPECTION AGENCY AND THE CONCRETE CONTRACTOR SHALL SATISFY THEMSELVES THAT THE CONCRETE MIX DESIGN WILL PRODUCE A CONCRETE WHICH WILL MEET THE SPECIFICATIONS FOR THIS PROJECT. IN ADDITION, THE CONTRACTOR AND CONCRETE FINISHER SHALL VERIFY THAT THE WORKABILITY, FINISHABILITY AND SETTING TIMES ARE APPROPRIATE FOR SLAB INSTALLATIONS, PLACEMENT SHALL BE MADE BY CHUTE DIRECTLY FROM THE CONCRETE TRUCKS. IF PUMPING OF THE CONCRETE IS CONTEMPLATED FOR ANY SPECIAL LOCATIONS, THE PROPORTIONS ESTABLISHED ABOVE SHALL NOT BE ALTERED TO SUIT

THE CAPABILITIES OF THE PUMPING EQUIPMENT. READY MIX CONCRETE SHALL COMPLY WITH REQUIREMENTS OF ASTM C94. WHEN AIR TEMPERATURE IS BETWEEN 85° AND 90° F, REDUCE MIXING AND DELIVERY TIME FROM 90 MINUTES TO 75 MINUTES; WHEN AIR TEMPERATURE IS ABOVE 90° F, REDUCE

MIXING AND DELIVERY TIME TO 60 MINUTES. WATER CEMENT RATIO SHALL BE BASED ON SURFACE DRY MATERIAL.

H. CONTRACTION JOINTS IN SLABS-ON-GRADE: FORM WEAKENED-PLANE CONTRACTION JOINTS, SECTIONING CONCRETE INTO AREAS AS INDICATED. CONSTRUCT CONTRACTION JOINTS FOR A DEPTH EQUAL TO AT LEAST ONE-FOURTH OF THE CONCRETE THICKNESS, AS FOLLOWS: SAWED JOINTS: ALL SAW CUTTING SHALL BE ACCOMPLISHED WITH A SOFT-CUT SAW AS SOON AS THE SLAB WILL SUPPORT THE WEIGHT OF THE SAW AND OPERATOR. NOTE: CONCRETE DUST SHALL BE REMOVED COMPLETELY AND IMMEDIATELY. IF CHALK LINES ARE USED FOR SAW CUTS, ALL CHALK REMAINING ON SLAB SHALL

COMPLY WITH ACI 117, "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS." ALL INTERIOR FLOOR SLABS SHALL MEET THE REQUIREMENTS OF A TYPE 5, SINGLE COURSE, HARD STEEL - TROWELED FINISH AS

BE REMOVED COMPLETELY AND IMMEDIATELY AFTER SAWING.

J. CONCRETE CURING AND PROTECTION:

a) FIRST, ALL EXTERIOR CONCRETE SLABS SHALL BE CURED USING A LIQUID MEMBRANE- FORMING CURING COMPOUND TO BE APPLIED EVENLY AND UNIFORMLY PER MANUFACTURER'S INSTRUCTIONS AS SOON AS POSSIBLE AFTER FINAL FINISHING. SURFACE SHALL BE DAMP, BUT NOT WET AND CAN NO LONGER BE MARRED BY A WALKING WORKMAN, ALL APPLICATIONS SHALL BE MADE BY AN APPLICATOR CERTIFIED BY THE MANUFACTURER, AND WHEN SURFACE AND AIR TEMPERATURE IS ABOVE 50° F. BEGIN CURING AFTER FINISHING CONCRETE. BUT NOT BEFORE FREE WATER HAS DISAPPEARED FROM CONCRETE SURFACE. CURING COMPOUND SHALL BE PLACED WITHIN FOUR (4) HOURS AFTER CONCRETE HAS BEEN PLACED.

b) SECOND, CONCRETE SHALL BE MAINTAINED ABOVE 50 DEGREES F AND IN A MOIST CONDITION FOR AT I FAST THE FIRST SEVEN (7) DAYS AFTER PLACEMENT. INTERIOR SLABS - CURING: i) FIRST, ALL INTERIOR CONCRETE SLABS SHALL BE CURED USING A LIQUID MEMBRANE-FORMING CURING COMPOUND TO BE APPLIED EVENLY AND UNIFORMLY PER MANUFACTURER'S INSTRUCTIONS AS SOON AS POSSIBLE AFTER FINAL FINISHING. SURFACE SHALL BE DAMP, BUT NOT WET AND CAN NO LONGER BE MARRED BY A WALKING WORKMAN ALL APPLICATIONS SHALL BE MADE BY AN APPLICATOR CERTIFIED BY THE MANUFACTURER, AND WHEN SURFACE AND AIR TEMPERATURE IS ABOVE 50° F BEGIN CURING AFTER FINISHING CONCRETE, BUT NOT BEFORE FREE WATER HAS DISAPPEARED FROM CONCRETE SURFACE. CURING COMPOUND SHALL BE PLACED

WITHIN FOUR (4) HOURS AFTER CONCRETE HAS BEEN PLACED. b) SECOND, CONCRETE SHALL BE MAINTAINED ABOVE 50 DEGREES F AND PONDED WITH

WATER FOR SEVEN (7) DAYS AFTER CONCRETE PLACEMENT. :) THIRD, CONCRETE SLABS SHALL BE CURED USING A LIQUID MEMBRANE- FORMING CURING COMPOUND TO BE APPLIED EVENLY AND UNIFORMLY PER MANUFACTURER'S INSTRUCTIONS. SURFACE SHALL BE DAMP, BUT NOT WET AND CAN NO LONGER BE MARRED BY A WALKING WORKMAN. ALL APPLICATIONS SHALL BE MADE BY AN APPLICATOR CERTIFIED BY THE MANUFACTURER, AND WHEN SURFACE AND AIR

TEMPERATURE IS ABOVE 50° F. INTERIOR SLAB PROTECTION: TAKE THE FOLLOWING MEASURES TO PROTECT FLOOR SLAB:

A. WRAP OR "DIAPER" ALL MOTORIZED AND HYDRAULIC EQUIPMENT TO PREVENT FLUID LEAKS. B. PROVIDE NON-MARKING TIRES ON RUBBER TIRED VEHICLES OR EQUIP RUBBER TIRES WITH TIRE BOOTS MADE OF NYLON FABRIC

C. SOURCE FOR DIAPERS AND BOOTS: R&R TIRE SURFACE PROTECTORS, INC., FORT

COLLINS CO 80526, (970) 266-4082 D. PROVIDE MATS AT ALL ENTRANCES TO PREVENT MUD STAINS. E. COVER SLAB PRIOR TO PAINTING. ALL SPILLS TO BE CLEANED WITH SOAP AND WATER. LACQUER THINNER WILL NOT BE ACCEPTABLE

SIMON G. SOLORIO J

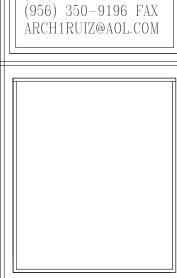
(956) 631-1500 www.solorio.com

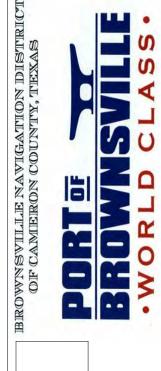
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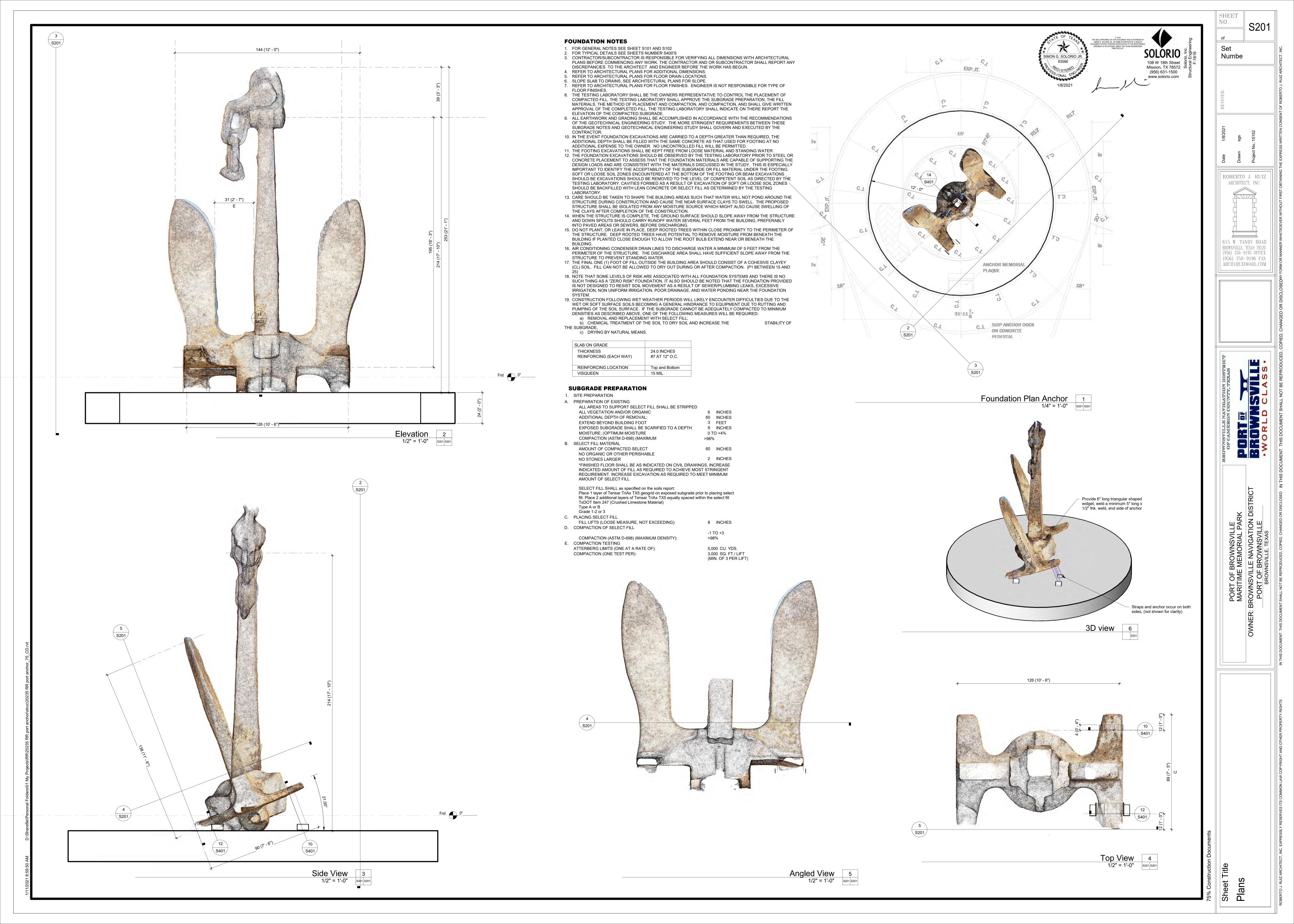
SHEET

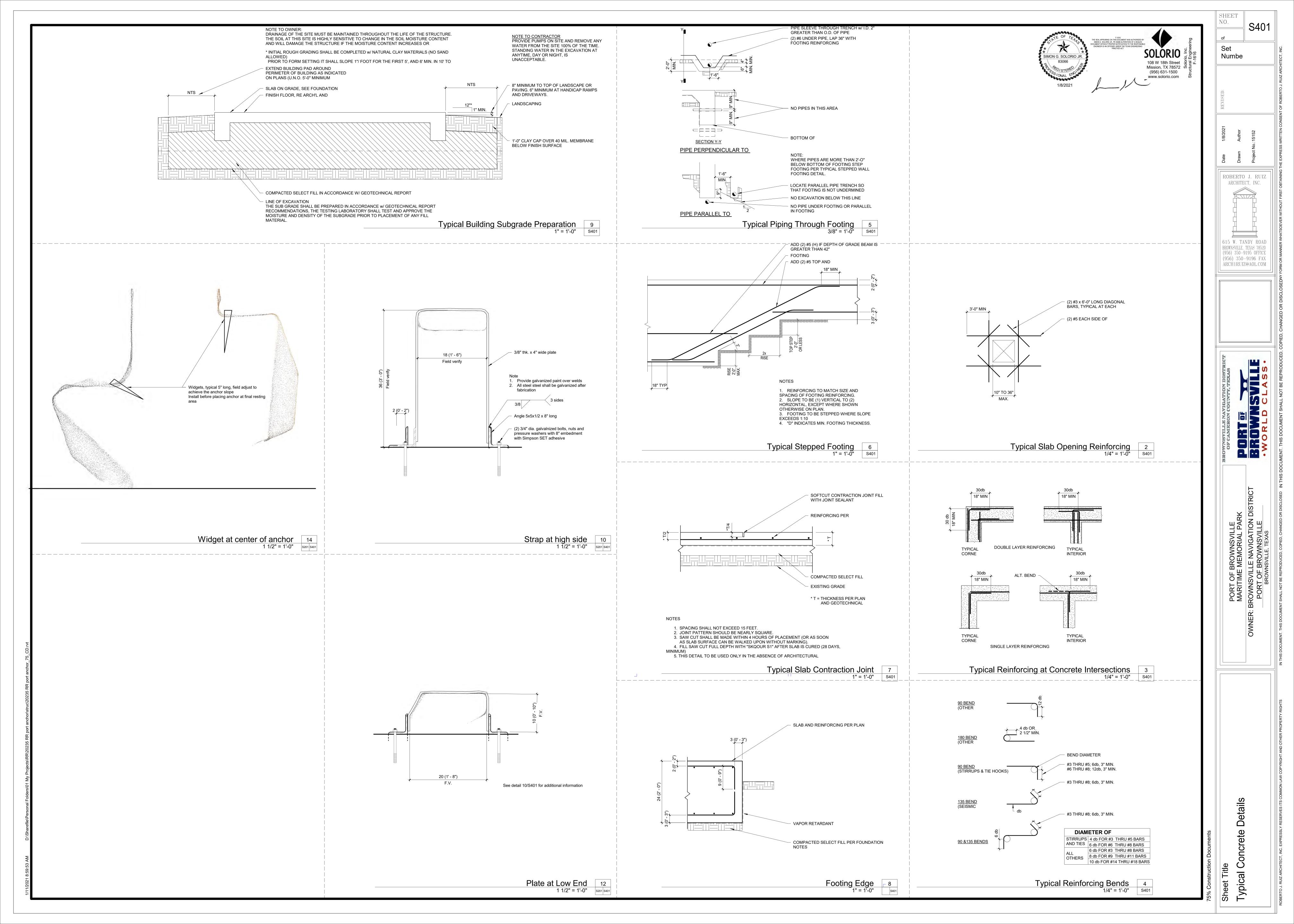
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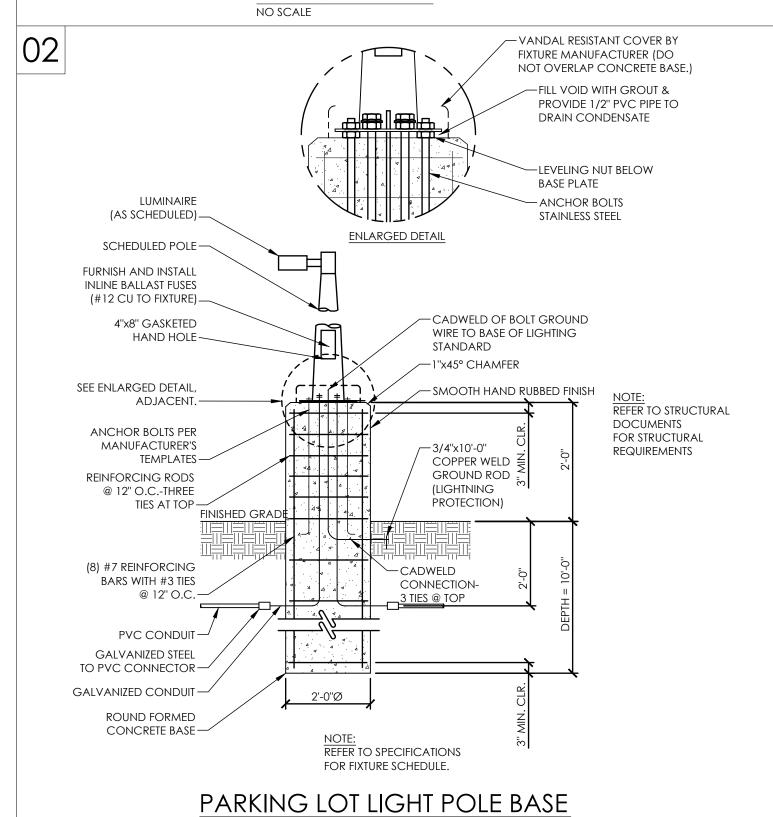
ROBERTO J. RUI ARCHITECT. INC. 315 W. TANDY ROAI BROWNSVILLE, TEXAS 78520 l (956) 350-9196 FAX



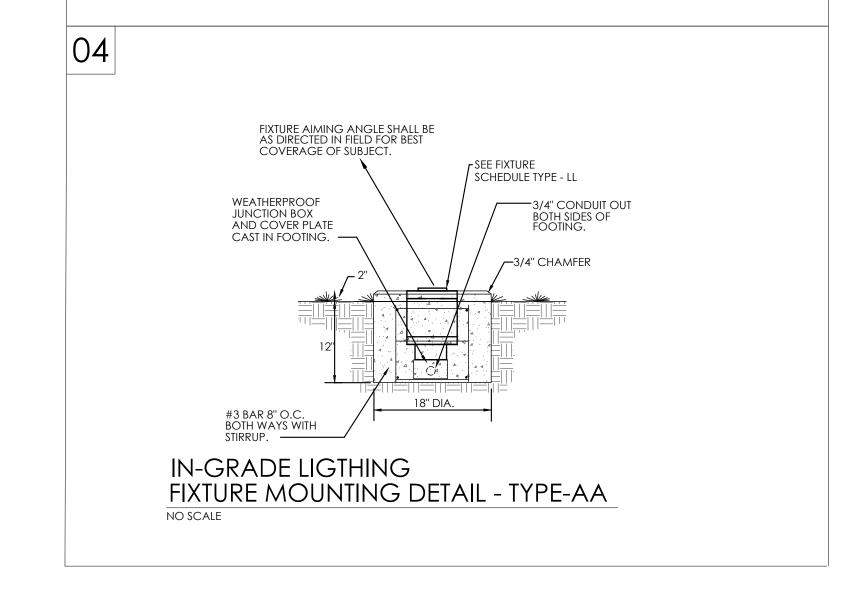








03	
	FIXTURE AIMING ANGLE SHALL BE AS DIRECTED IN FIELD FOR BEST COVERAGE OF SUBJECT. WEATHERPROOF JUNCTION BOX AND COVER PLATE CAST IN FOOTING. #3 BAR 6" O. C. BOTH WAYS WITH
	LIGHT FIXTURE TYPE-BB MOUNTING DETAIL NO SCALE



			LUMINA	IRE SCHEDULE	
MARK	VOLTAGE	LAMP	MOUNTING	DESCRIPTION	MODEL NO.
AA	120V	LED 3000 LM 4000K 9W	IN-GRADE	LED IN GRADE, WALL WASH FIXTURE, WET LOCATION RATED	HUNZA WASHF/L-S-SS-AS-4
ВВ	120V	LED 3000 LM 4000K 106W	SURFACE	LED FLOOD LIGHT FIXTURE, WET LOCATION RATED	SIGNIFY CSFM 48L-530-NW-RSP-120V
CC	120V	1-LED FIXTURE 21444 LM 4000K 158W	25' POLE	LED AREA LUMINAIRE, POLE MOUNT LUMINAIRE, INCLUDE BASE COVER, RATED FOR WET LOCATION, UL LISTED, POLE SHALL BE SIZE FOR MIN. 150 MPH, INCLUDE VIBRATION DAMPERS	FIXTURE MFR. SIGNIFY ECF-S-48L-1A-NW-G2-AR-5-UNV-RPA-BZ POLE MFR. UNITED LIGHTING STANDARDS #RTA-845252-AB-MODHGT-SSAB-D1-VD-STD

1.) EQUAL MANUFACTURER SHALL BE ACCEPTABLE WITH EQUAL PERFORMANCE OF SPECIFIED EQUIPMENT AND APPROVED BY ENGINEER. 2.) SUBMIT EQUAL MANUFACTURERS TO ENGINEER 10 DAYS PRIOR TO BID DATE. 3.) Submit light fixtures cutsheets to owner for approval prior to order. 4.) CONTRACTOR SHALL VERIFY THAT ANY IRRIGATION SPRINKLER HEAD IS AWAY FROM ANY LIGHT POLE A MINIMUM OF 75' TO AVOID

CONSISTENT WATER TO LIGHT POLE. COORDINATE WITH IRRIGATION CONTRACTOR PRIOR TO ANY WORK. 5.) CONTRACTOR SHALL VERIFY THAT ANY LIGHT POLES ON COMMON AREAS AND SIDE WALKS, THAT THE LOCATION OF THE POLE TO MEET THE ADA REQUIREMENTS. 6.) CONTRACTOR SHALL FIELD VERIFY FOR EXISTING/NEW UNDERGROUND UTILITIES PRIOR TO ANY WORK.

480/277V, 3Ø, 4W ELECTRIC DESIGN CONNECTED LOAD	CAL LOAD ANALYSIS
DESCRIPTION	TOTAL KVA
LIGHTING	2
GENERAL POWER	7
TOTAL KVA:	9
TOTAL AMPS:	25
TOTAL AMPS+25%:	31
WIRE SIZE AMPS:	100

SERVED

LIGHT POLES

ANCHOR INGRADE LTG

SPACE

1 RCPT

1 RCPT

1 RCPT

SPACE

SPACE

SPACE

SPACE

SPACE

SPACE

SPACE

<u>LOADS</u>

CONNECTED LOAD

RESERVE - %

TOTAL LOAD

TOTAL AMPS

CKT LOAD BKR POLE FEEDER/BRANCH CIRCUIT

2#8, 1#10G,3/4"C

2#12, 1#12G,1/2"C

2#8, 1#10G,3/4"C

2#10, 1#10G,3/4"C

2#10, 1#10G,3/4"C

4#10, 1#10G,3/4"C

KVA/PHASE

KVA SIZE

- 9

25 2 - 11

V	WALL MOUNTED TELEPHONE/DATA OUTLET. FURNISH AND INSTALL 1.25"C., WITH PULLSTRING AND INSULATED BUSHING, STUBBED ABOVE CE +24" UNLESS OTHERWISE NOTE. BOX TO BE MINIMUM 2 1/8" DEEP.		
	PANELBOARD, CLEARANCE AS PER LATEST NEC		
	ELECTRICAL CONDUIT		
	UNDERGROUND ELECTRICAL CONDUIT		
— с —	COMMUNICATION CONDUIT AND WIRING		
X, X, X	MULTI-POLE DEVICE CIRCUIT NUMBERS		
X/X/X	THREE SINGLE POLE DEVICE CIRCUIT NUMBERS		
8 A-1	CONDUIT AND WIRE HOMERUN TO PANEL. SHORT HATCH INDICATES NEUTRAL CONDUCTOR, LONG HATCHES INDICATE PHASE CONDUCTORS, AND LONG HATCH WITH CIRCLE INDICATES ISOLATES OR INSULATED GROUND. ALPHANUMERIC DESCRIPTION INDICATES PANEL AND BREAKER.		
8 A-1	UNDERGROUND CONDUIT AND WIRE HOMERUN TO PANEL. SHORT HATCH INDICATES NEUTRAL CONDUCTOR, LONG HATCHES INDICATE PHASE CONDUCTORS, AND LONG HATCH WITH CIRCLE INDICATES ISOLATED OR INSULATED GROUND. ALPHANUMERIC DESCRIPTION INDICATES PANEL AND BREAKER.		
#	- DETAIL NUMBER		
#	- SHEET NUMBER		
(J) H(J)	JUNCTION BOX - SIZE & MOUNTING AS REQUIRED MINIMUM OF 4" SQUARE		

V(LN) MNT KAIC FDR

1 20 32

1 20 34

1 20 36

1 20 38

1 20 40

1 20 42

FEEDER/BRANCH CIRCUIT

2#12, 1#12G,1/2"C

2#8, 1#10G,3/4"C

2#10, 1#10G,3/4"C

2#10, 1#10G,3/4"C

120 SUR. 10 1-RUN 4#2, 1#8G, 2"C

SERVED

FLAG POLE FLOOD LTG

SPACE

SPACE

SPACE

SPACE

1 RCPT

1 RCPT

1 RCPT

SPACE

SPACE

SPACE

SPACE

SPACE

SPACE

SPARE

SPARE

SPARE

SPARE

SPARE

SPARE

(KVA) - <u>DESCRIPTIVE LOADS</u>

2 - LIGHTING

0 - HEATING 0 - MOTOR 0 - KITCHEN 0 - OTHER

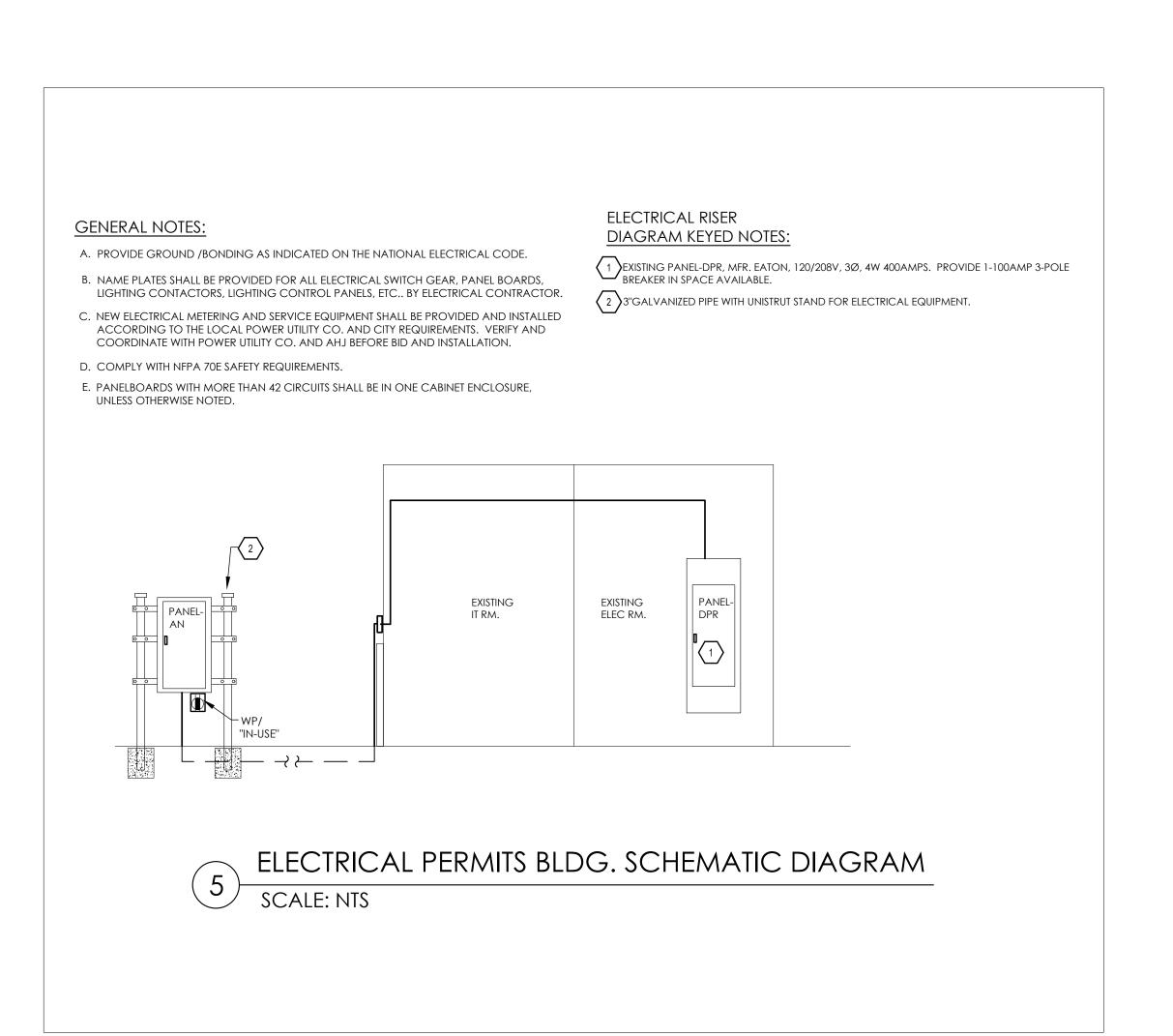
7 - RECEPTACLES 0 - COOLING

---ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS.

SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

ICAL LEGEND-GENERAL NOWN MAY NOT APPEAR IN ALL DRAWINGS. OWN SCHEMATIC AND MAY NOT BE TO SCALE.	ELECTRICAL ABBV: DESCRIPTION	BBREVIATIONS: ABBV: DESCRIPTION	GENERAL ELECTRICAL 1. ALL SYMBOLS AND ABBREVIATIONS SHOWN ON THIS LEV
QUAD RCPT., WEATHER RESISTANT "WR", GFI INSTALLED IN A "IN-USE" WEATHER PROOF STEEL ENCLOSURE- 20A/125V/2P/3W/G NEMA 5-20R WP/"IN-USE" SHALL BE EQUAL TO MFR. CARLON, METALLIC SERIES SINGLE GANG, VERTICAL MOUNT #ME9UVMG DOUBLE GANG, VERTICAL MOUNT #ME9UVMG WALL MOUNTED TELEPHONE/DATA OUTLET. FURNISH AND INSTALL 1.25"C., WITH PULLSTRING AND INSULATED BUSHING, STUBBED ABOVE CEILING +24" UNLESS OTHERWISE NOTE. BOX TO BE MINIMUM 2 1/8" DEEP. PANELBOARD, CLEARANCE AS PER LATEST NEC	C CONDUIT CB CIRCUIT BREAKER EC EMPTY CONDUIT EX EXISTING	MFR. MANUFACTURER (S.C.) SHARE CIRCUIT QRCPT(S) QUAD RECEPTACLE(S) RCPT(S) DUPLEX RECEPTACLE(S) CRCPT(S) I.G. RECEPTACLE(S) QCRCPT(S) QUAD I.G. RECEPTACLE(S) PNL PANEL SO (S.O.) SPACE ONLY SP SPARE ST (S.T.) SHUNT TRIP SW SWITCH UF UNDERFLOOR UG UNDERGROUND UNO(U.N.O.) UNLESS NOTED OTHERWISE	APPEAR ON THIS SET OF DRAWINGS. 2. USE DIRECTIONAL ARROW ON EXIT SIGNS AS REQUIRED 3. IEEE STANDARD C37.2-1991, ELECTRICAL POWER SYSTEM NUMBERS. 4. CONTRACTOR SHALL NOT INSTALL MORE THAN THREE CONDUCTORS IN A COMMON RACEWAY. IF CONTRACTOR OF THE PRINT OF THE PRI
ELECTRICAL CONDUIT UNDERGROUND ELECTRICAL CONDUIT COMMUNICATION CONDUIT AND WIRING MULTI-POLE DEVICE CIRCUIT NUMBERS THREE SINGLE POLE DEVICE CIRCUIT NUMBERS CONDUIT AND WIRE HOMERUN TO PANEL. SHORT HATCH INDICATES NEUTRAL CONDUCTOR, LONG HATCHES INDICATE PHASE CONDUCTORS, AND LONG HATCH WITH CIRCLE INDICATES ISOLATES OR INSULATED GROUND. ALPHANUMERIC DESCRIPTION INDICATES PANEL AND BREAKER.	AC ABOVE COUNTER HT. HEIGHT MTD. MOUNTING FDR. FEEDER CKT. CIRCUIT LTG. LIGHTING LC LIGHTING CONTACTOR LCP LIGHTING CONTROL PANEL IG ISOLATED GROUND EA. EACH N1 NEMA-1 N3R NEMA-3R N4X NEMA-4X	WG WIRE GUARD WP WEATHERPROOF XFMR TRANSFORMER MB MAIN BREAKER MLO MAIN LUGS ONLY RMC RIGID METAL CONDUIT RNC RIGID NONMETALLIC CONDU EMT ELECTRICAL METALLIC TUBING CONDUIT S/N SOLID NEUTRAL AC ABOVE COUNTER AHJ AHUTHORITY HAVING JURISDICTION T TAMPER PROOF	

TAMPER PROOF

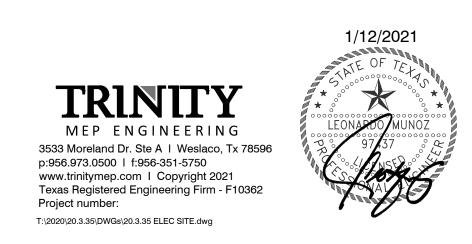


SS STAINLESS STEEL

1.) 48" AFF INDICATES TO TOP OF DEVICE;

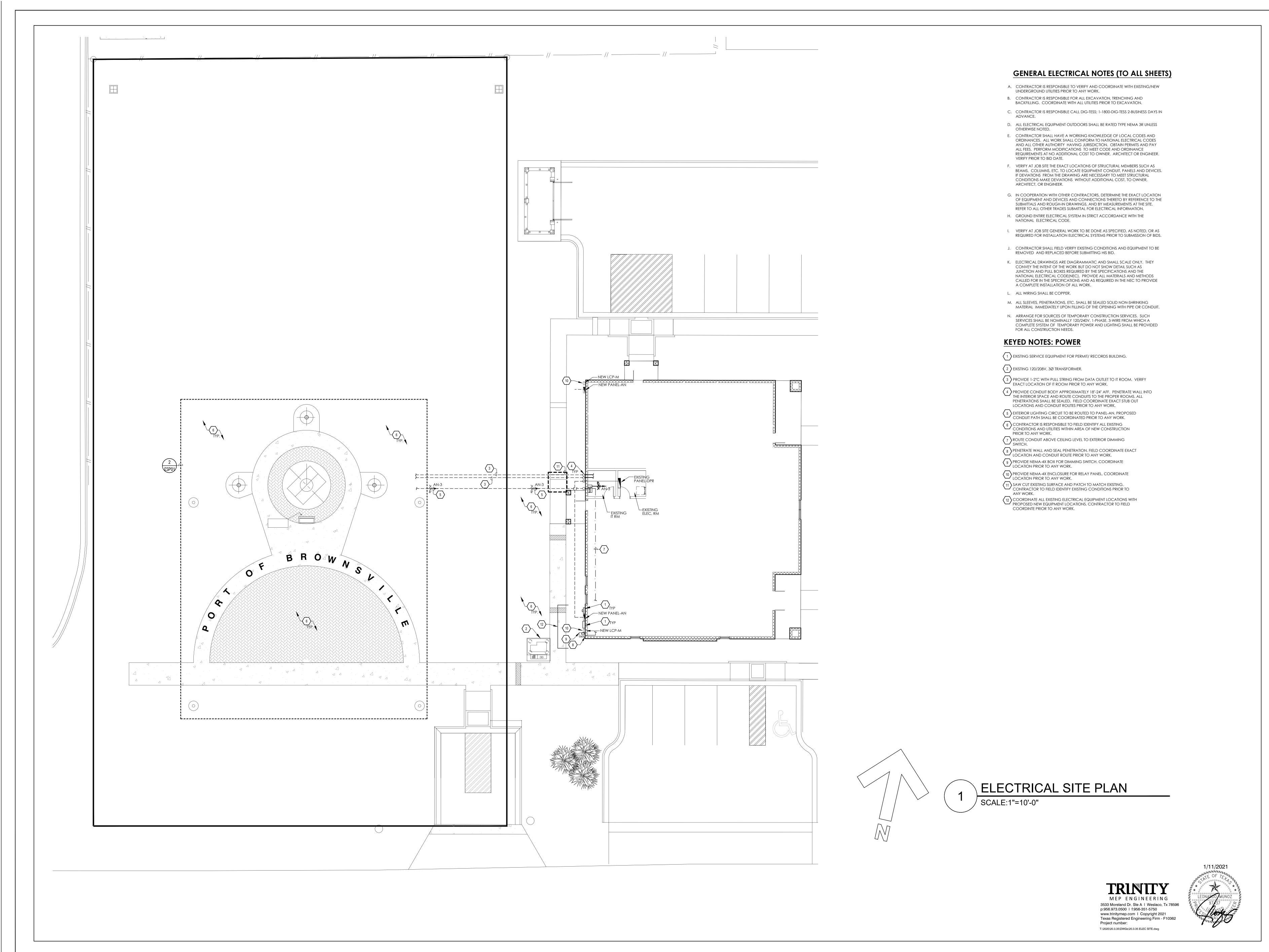
15" AFF INDICATES TO BOTTOM OF DEVICE;

ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE. AC INDICATES 6" ABOVE COUNTER TO BOTTOM OF DEVICE.



SHEET SET NUMBER LEGEND MAY NOT STEM DEVICE FUNCTION EE CURRENT CARRYING TRACTOR IS PLANNING C VAY, THE CONTRCATOR E PROPOSED E 310.15 (B) (2) FOR VED INSTALLATIONS WILL TOR IN ACCORDANCE WIT OF THREE 90° BENDS E THERE ARE MORE PROVIDE PULL BOXES INSTALLATIONS. ALL OVED, LISTED, LABELED, RICAL TESTING S SERVED BY COLOR. COVERPLATES ATIONS TO INDICATE

ROBERTO J. RUIZ ARCHITECT, INC. 615 W. TANDY ROAD BROWNSVILLE, TEXAS 78520 (956) 350-9195 OFFICE (956) 350-9196 FAX ÀRCH1RUIZ@AOL.COM



SHEET NO. ESP01

of SET NUMBER

/21 REVISED:

DATE: 01/08/21
DRAWN BY: JRR
PROJECT NO.:

ROBERTO J. RUIZ
ARCHITECT, INC.

615 W. TANDY ROAD
BROWNSVILLE, TEXAS 78520
(956) 350-9195 OFFICE
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ARCH1RUIZ@AOL.COM

BROWNSVILLE the port that works

ICHOR PARK

NSVILLE NAVIGATION DISTRIC

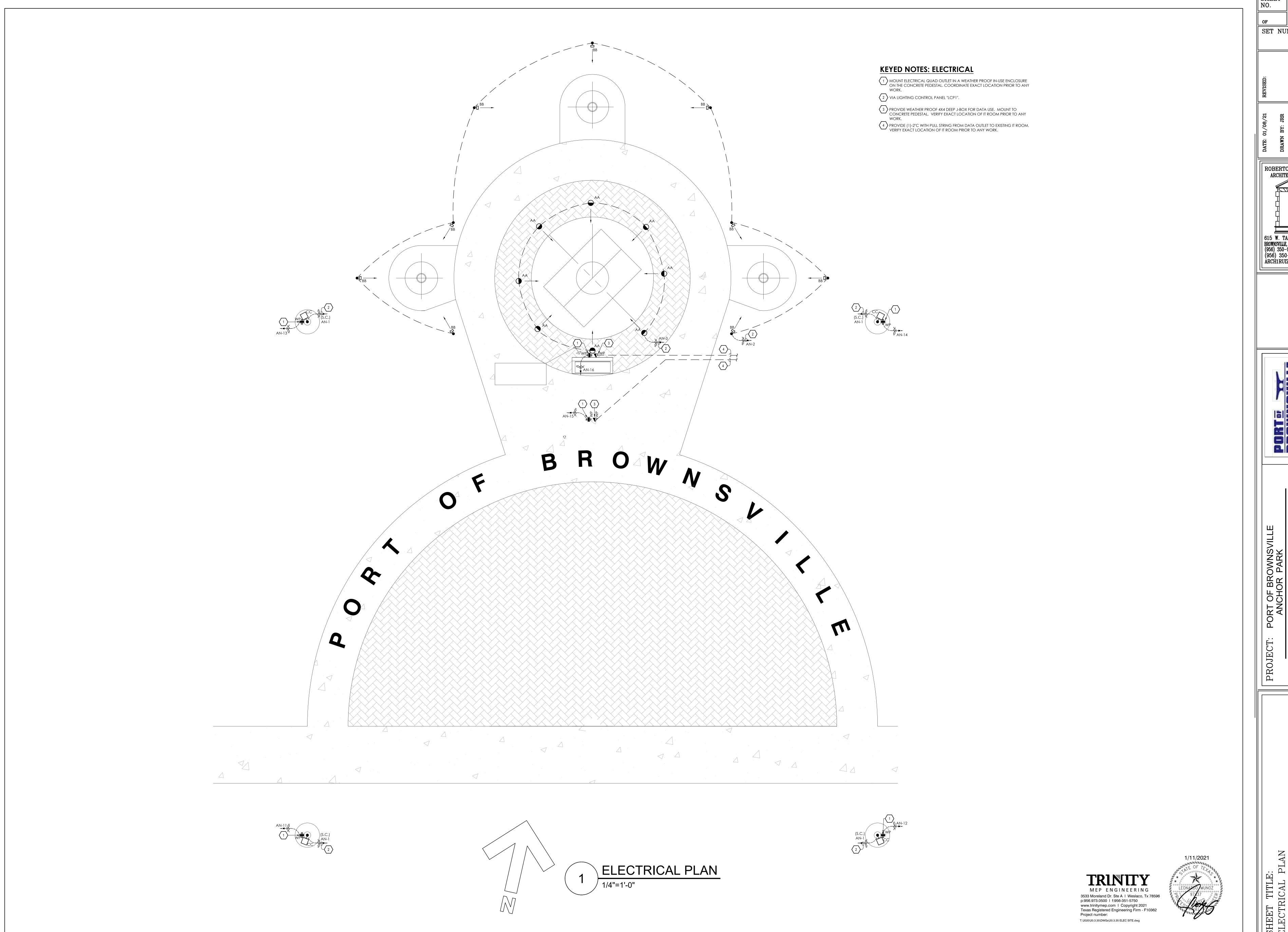
RT OF BROWNSVILLE

BROWNSVILLE

OWNER: BROWNSVILLE
PORT OF BE
BROWNSVILLE

ECTRICAL SITE PLAN

SHEET TITLE:



615 W. TANDY ROAD BROWNSVILLE, TEXAS 78520 (956) 350-9195 OFFICE (956) 350-9196 FAX ARCH1RUIZ@AOL.COM

PORT - -