

COMMERCIAL BUSINESS FACILITY

NEW CONSTRUCTION

2215 ALLEN GENOA
PASADENA, TEXAS 77521

City of Pasadena – Building Code(s)
2015 International Building Code.
2015 International Energy Code.
2015 International Fire Code
2015 International Fire Code Ordinance
2015 International Fuel and Gas Code.
2015 International Residential Code.
2015 Mechanical Code, with local amendments
2017 National Electrical Code, Ordinance

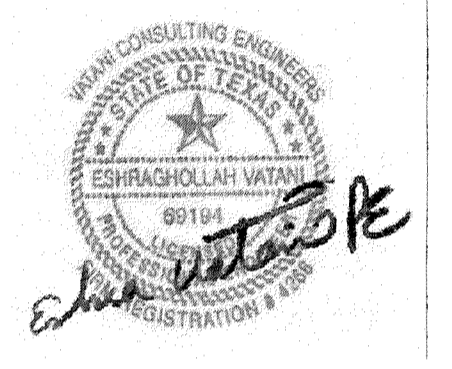
VARIANT CONSULTING ENGINEERS
5700 NW CENTRAL DR, STE 220
HOUSTON, TX 77092
TYPE # 4266 BPE FIRM # 4266
PHONE (713) 956-2555
FAX (713) 956-2555
www.vce.com

DESIGN & DEVELOPMENT CONSULTATION
www.vce.com
(713) 956-2555

DRAWINGS ISSUED FOR:

03-25-19	RE-DESIGN SITE
03-26-19	PRELIMINARY
04-01-19	SUBMITAL DESIGN
05-04-19	DESIGN REVISION
	Issued for Construction

REVISIONS

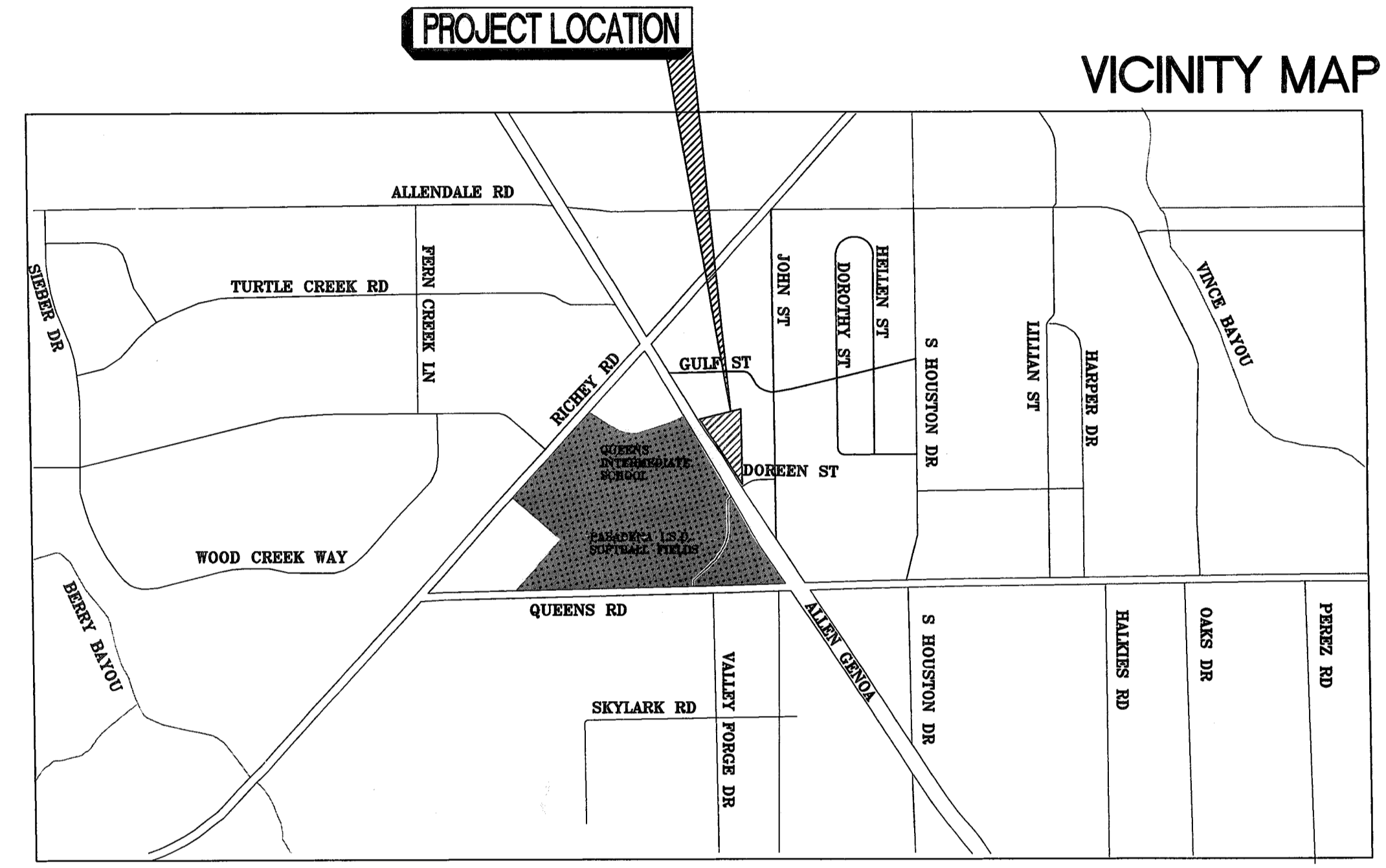
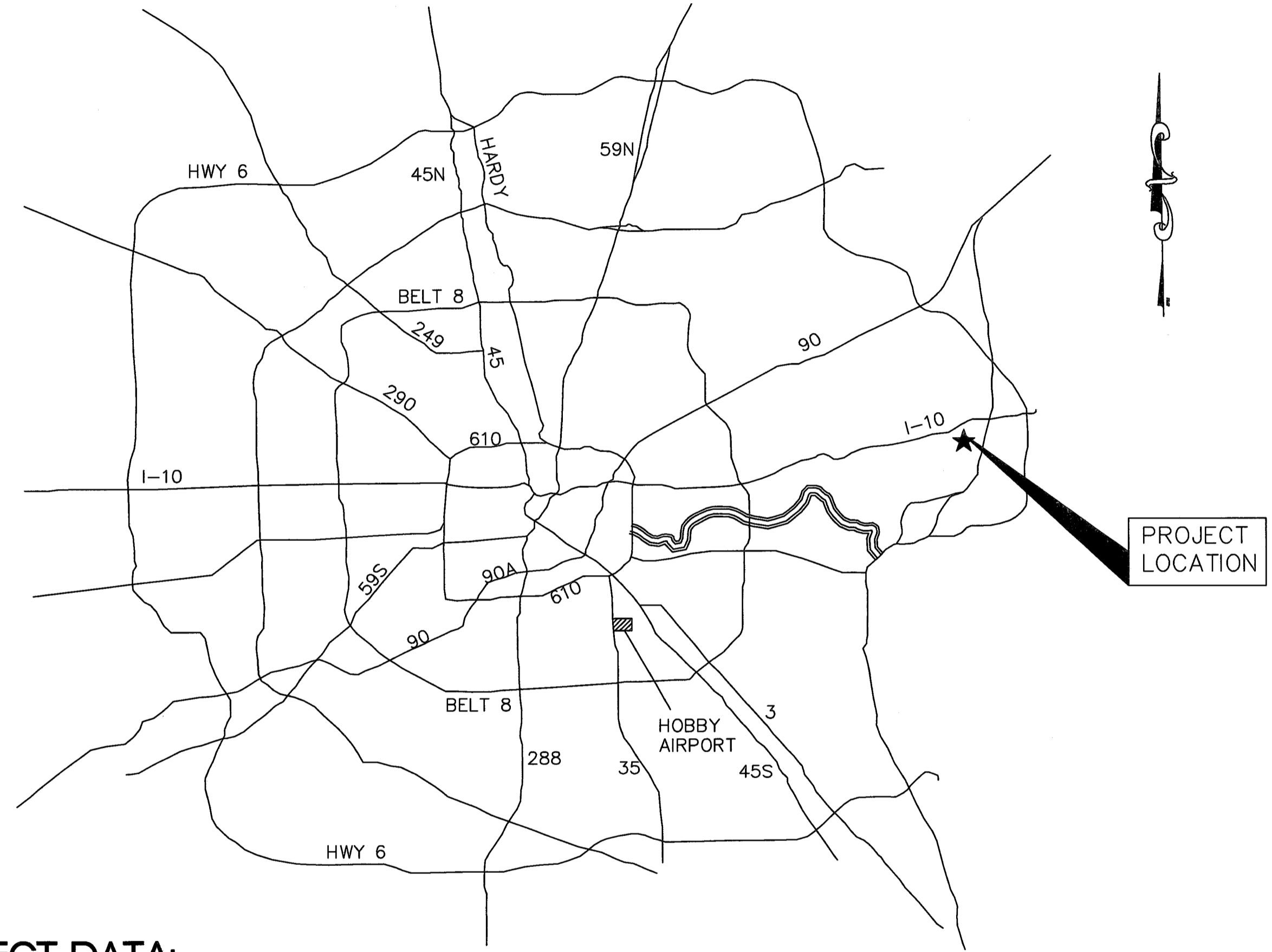


JANUARY 20, 2020

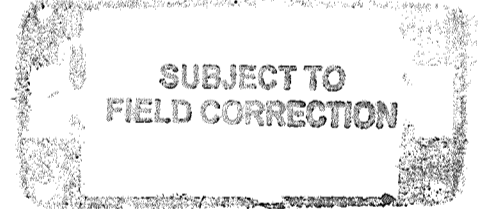
"ALLEN GENOA" COMMERCIAL FACILITY
RETAIL LEASE SPACE
2215 ALLEN GENOA
PASADENA, TEXAS 77512
A PROJECT OF:
THOMAS NGUYEN

DRAWING TITLE
COVER SHEET

COV



PASADENA, TEXAS, 77521
HARRIS COUNTY
KEY MAP No. 536T
FACET MAP 5754-D



PROJECT DATA:

SCOPE OF WORK : NEW CONSTRUCTION OF COMMERCIAL BUSINESS FACILITY WITH RE-CONSTRUCTED PAVEMENT AND UNDERGROUND STORM COLLECTION

PROJECT DESCRIPTION : NEW RETAIL BUILDING APPROXIMATELY 9,777 SF TRACT OR PARCEL OF LAND IN THE J.H. BURNETT SURVEY, ABST # 1142, TR 14C, H.C., Tx. BEING SO CALLED 21.15 AC, H.C. RECORDS, VOLUME 207, PG. 47 H.C. DEED ROECORDS, May 10, 2006.

BUILDING CODES : 2015 INTERNATIONAL BUILDING CODE.
2015 INTERNATIONAL FIRE CODE.
2015 INTERNATIONAL MECHANICAL CODE
2015 INTERNATIONAL PLUMBING CODE
2017 NATIONAL ELECTRICAL CODE
2015 City of Baytown Commercial Energy Code (ANSI/ASHRAE/IESNA 90.1-2004)
2015 INTERNATIONAL PROPERTY MAINTENANCE CODE
2015 INTERNATIONAL EXISTING BUILDING CODE
State of Texas Accessibility Standards (TAS)
Secretary of State's Office, (512) 463-5561

TYPE OF OCCUPANCY: COMMERCIAL - BUSINESS BUILDING FACILITY

TOTAL SITE AREA: 2.369 Acres
103,192 Sf

RIGHT OF WAY NOTIFICATION

48 HOURS NOTICE: CONTRACTOR SHALL NOTIFY GALVESTON COUNTY PRIOR TO COMMENCING CONSTRUCTION AND /OR BACKFILLING ANY UTILITIES. CONTRACTORS TO CONTACT PUBLIC REVIEW DEPARTMENT AT (713) 274-3931 OR public.review@hcpid.org

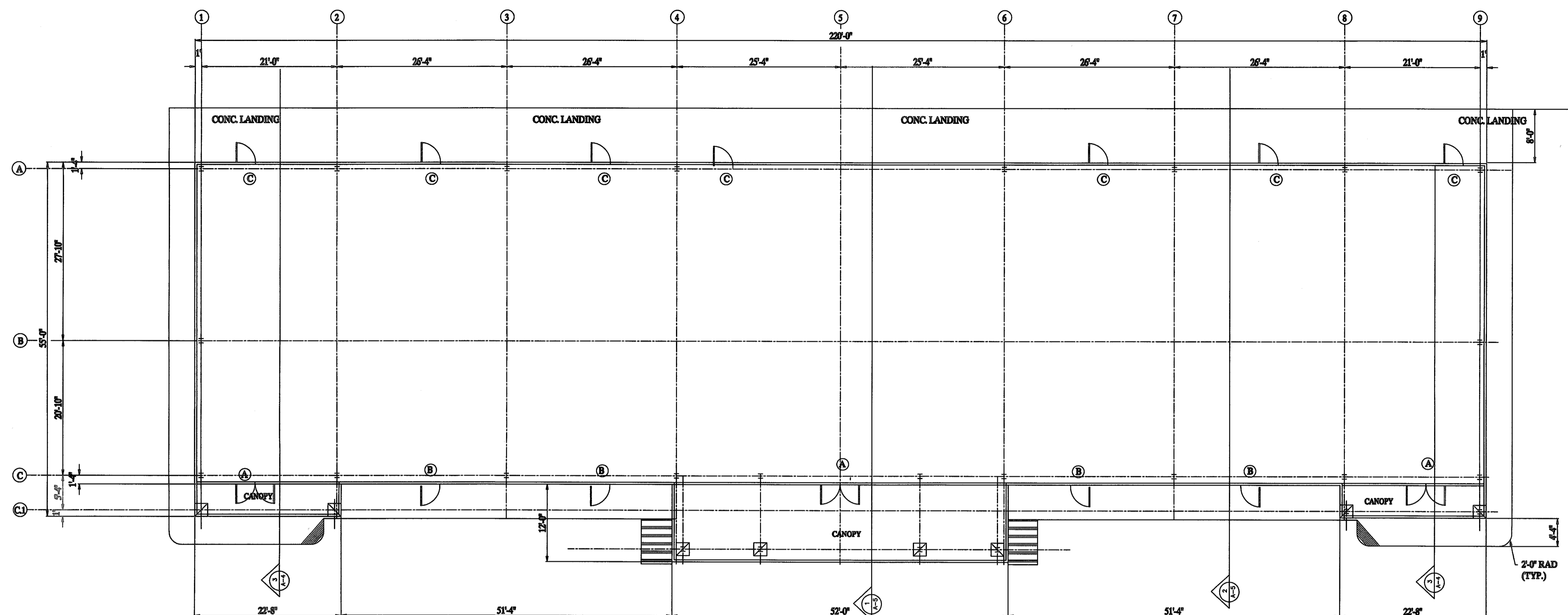
RIGHT OF WAY NOTIFICATION

1. Construction of Facilities and/ or Paving Work within Public Right-of-Way.

Notifications (permit) Issued by Harris County Public Infrastructure Department - Permits Office- is required for proposed work within Harris County Right-of-Way. The project must be approved prior to obtaining the required Notification. Be advised that a Notification must be obtained separately from site development permit package. For additional information, please visit http://hcpid.org/permits/pr_notification_of_construction.html, or contact Public Review Inspections Department @ (713) 274-3931

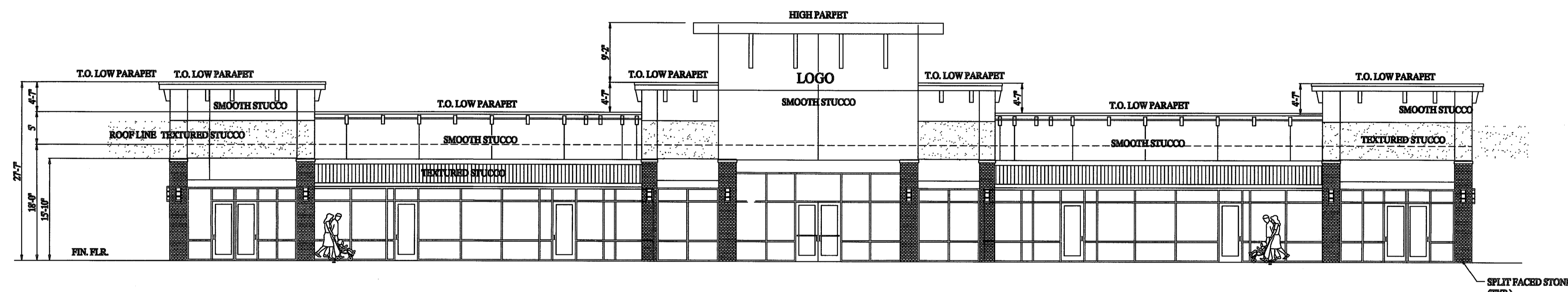
Once a permit is pulled, on-site inspections are done to insure work is performed according to the 2015 International Fire Code (IFC), the 2015 International Building Code (IBC), and the 2017 National Electrical Code (NEC) which the city has adopted. For more information contact the Building Official at _____

DRAWING INDEX	COV	COVER SHEET	
		SURVEY (BY OTHERS)	2
	A-0.0	EXISTING DEVELOPEMENT SITE PLAN	3
	A-1.0	DIMENSIONAL SITE PLAN	4
	F-1.0	FIRE LANE SITE PLAN	5
	C-1.0	DRAINAGE SITE PLAN	6
	C-1.1	GRADING SITE PLAN	7
	C-2.0	DRAINAGE AREA MAP	8
	C-3.0	DRAINAGE DETAILS	9
	C-4.0	STORM WATER P.P.P	10
	C-5.0	SITE UTILITIES PLAN	11
	C-6.0	PAVEMENT DETAILS & NOTES	12
	SWQ	STORM WATER QUALITY MANAGEMENT PLAN	13



FLOOR PLAN

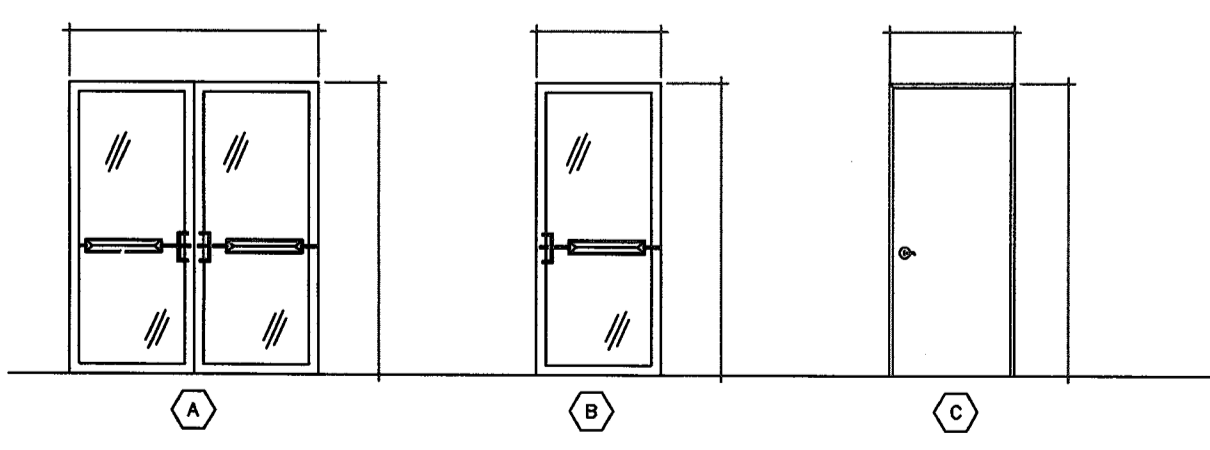
SUBJECT TO FIELD CORRECTION



FRONT ELEVATION

SCALE: 3/32" = 1'-0"

DOORS & WINDOWS SCHEDULE				
MARK	SIZE	DESCRIPTION	FRAME	HARDWARE & REMARKS
A	(2) 3'-0"W x 7'-0"HT. x 1 3/4"	DOUBLE GLASS STORE FRONT WITH SAFETY IMPACTED RESISTANT GLASS.	METAL	DOUBLE CYLINDER LOCK SET, PUSH BAR/PULL HANDLE, METAL THRESHOLD & WEATHERSTRIPPING, 1/2" MAX. @ THRESHOLD LEVEL. INSTALL SIGN: THIS DOOR IS TO REMAIN UNLOCKED DURING BUSINESS HOURS.
B	3'-0"W x 7'-0"HT. x 1 3/4"	SINGLE GLASS STORE FRONT WITH SAFETY IMPACTED RESISTANT GLASS.	METAL	DOUBLE CYLINDER LOCK SET, PUSH BAR/PULL HANDLE, METAL THRESHOLD & WEATHERSTRIPPING, 1/2" MAX. @ THRESHOLD LEVEL. INSTALL SIGN: THIS DOOR IS TO REMAIN UNLOCKED DURING BUSINESS HOURS.
C	3'-0"W x 7'-0"HT. x 1 3/4"	METAL PANEL DOOR	METAL	PRIVACY LOCK SET / DOOR CLOSER

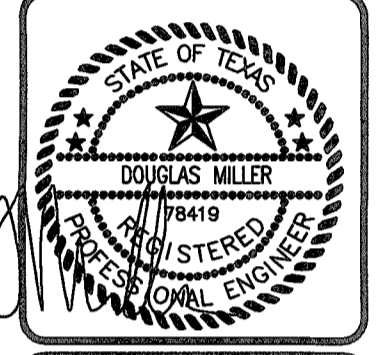


TYPICAL DOOR DETAILS
SCALE: N.T.S.

- ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS AND DRAWINGS. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE AND NATIONAL ORDINANCES AND REGULATIONS.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS NECESSARY FOR ALL TRADES, FOR PROPER EXECUTION OF WORK UNDER THIS CONTRACT. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS REQUIRED FOR THIS PROJECT.
- CONTRACTOR SHALL OBTAIN AND SUBMIT ALL REQUIRED CERTIFICATES OF INSURANCE TO THE OWNER'S AND LANDLORD'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF ANY WORK.
- THE REQUIREMENTS OF THE TENANT'S CRITERIA FOR DESIGN AND CONSTRUCTION FOR THIS BUILDING SHALL BE MADE PART OF THIS CONTRACT.
- THE CONTRACTOR SHALL MAKE HIMSELF FAMILIAR WITH THE JOB SITE CONDITIONS. OMISSION OF SPECIFIC DETAILS, DATA OR DRAWINGS SHALL NOT RELIEVE CONTRACTOR OF ANY RESPONSIBILITIES FOR A COMPLETE WORKING PROJECT AND SYSTEMS. THE CONTRACTOR SHALL THOROUGHLY AQUAINT HIMSELF WITH THE CONSTRUCTION REQUIREMENTS AND DETAILS BEFORE SUBMITTING HIS BID, AS NO ALLOWANCES WILL BE ALLOWED BECAUSE OF THE CONTRACTOR'S UNFAMILIARITY WITH THE JOB SITE CONDITIONS AND PROJECT REQUIREMENTS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE JOB SITE. CONTRACTOR SHALL REPORT ANY DISCREPANCIES AND/OR UNUSUAL CONDITIONS NOT SHOWN OR ANTICIPATED TO THE OWNER'S REPRESENTATIVE PRIOR TO FINALIZING BIDS AND COMMENCEMENT OF ANY CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN THE PREMISES IN A CLEAN AND ORDERLY FASHION DURING THE DURATION OF CONSTRUCTION PERIOD. THE LANDLORD'S TRASH FACILITIES SHALL NOT BE USED FOR CONSTRUCTION TRASH AND DEBRIS.
- ALL WORK UNDER THIS CONTRACT SHALL BE PERFORMED BY COMPETENT WORKMEN AND EXECUTED IN A NEAT WORKMEN LIKE MANNER. THE TENANT SHALL REQUIRE EXTENDED WARRANTIES ON SOME EQUIPMENT.
- ALL PENETRATIONS MADE IN EXTERIOR WALLS OF BUILDINGS FOR CONDUIT, PIPING, WINDOWS AND DOORS SHALL BE SEALED WITH POLYSULFIDE.
- NO PENETRATION SHALL OCCUR WITHIN 12" OF ANY OTHER ROOF PENETRATIONS, EXPANSION JOINT OR EDGE DETAIL.
- ALL ROOF OPENINGS REQUIRED WATER LIGHT TEMPORARY COVER UNTIL THE UNIT IS COMPLETED.
- ALL MATERIALS FOR PARTITIONS, WALLS, CEILINGS AND FINISHES SHALL BE APPROVED NON-COMBUSTIBLE MATERIALS.
- THE CONTRACTOR SHALL NOT PAINT ANY PLASTER, BUSH HAMMERED CONCRETE, PRE-FINISHED TRIM OR FLASHING.
- THE CONTRACTOR SHALL SAW CUT AND EXCAVATE ANY CONCRETE REQUIRED FOR ELECTRICAL, PLUMBING OR PIPING INSTALLATION REQUIRED BY VENDORS OR SHOWN ON DRAWINGS, BACK FILL WITH SAND COMPACTED TO 95 PROCTOR NEW REINFORCING INSTALLED AND REPAIR WITH 5 SACKS 3000 PSI CONCRETE TO MATCH WITH

REVISIONS	
No.	DATE DESCRIPTION
1	
2	
3	
4	

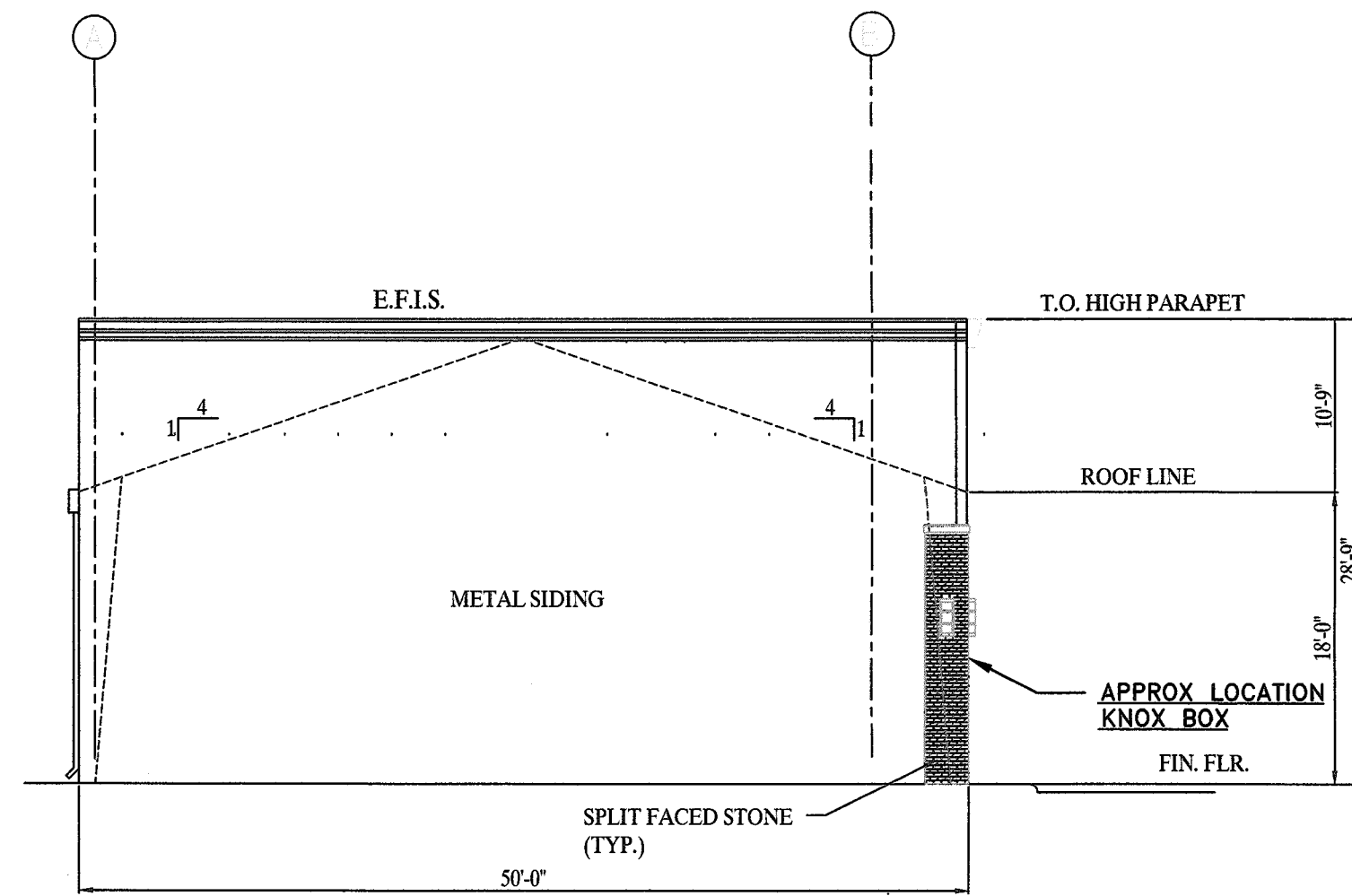
THIS DRAWING IS PROPERTY OF B.C. CLAY ASSOCIATES AND IS NOT TO BE COPIED, REPRODUCED, LOANED, RENTED, SOLD, OR USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION FROM B.C. CLAY ASSOCIATES. CONTRACTOR IS RESPONSIBLE FOR ANY DISCREPANCY WITH THE PLANS & SHALL BE RESPONSIBLE FOR ADJUSTMENT OR VERIFICATION.



THIS SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DOUGLAS MILLER P.E. NO. 18419 ON 06/01/18 FIRM No. 9637

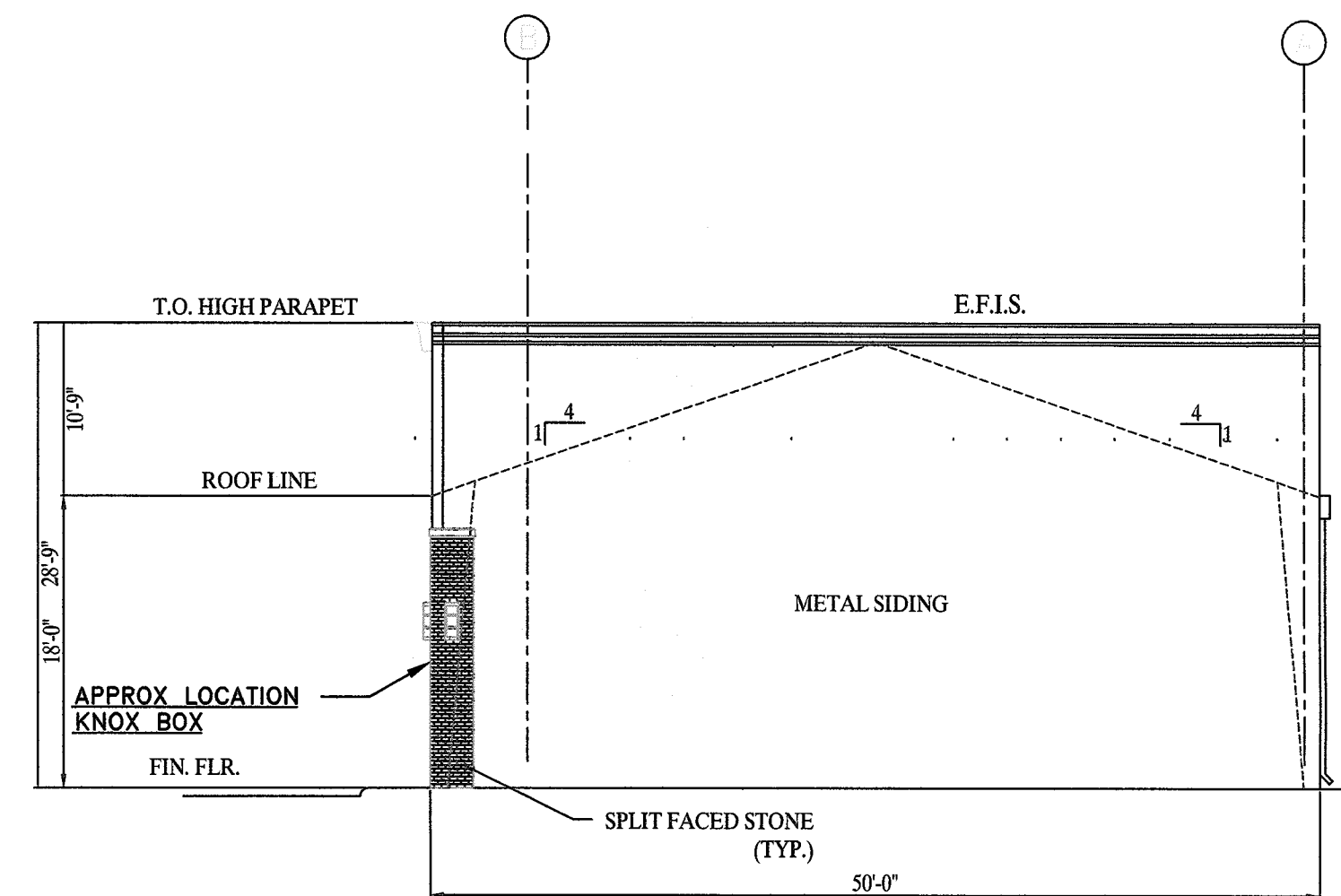
ALLEN GENOA SHOPPING PLAZA
ARCHITECTURAL
FLOOR PLAN
2215 N. ALLEN GENOA
PASADENA TEXAS

DATE: 06-01-18
CHECKED BY: b.clay
DESIGNED BY: B.C. CLAY
SCALE: N.P.O.T.E.D.
JOB NO.: CAE060118
FILE: MEKONG



LEFT ELEVATION

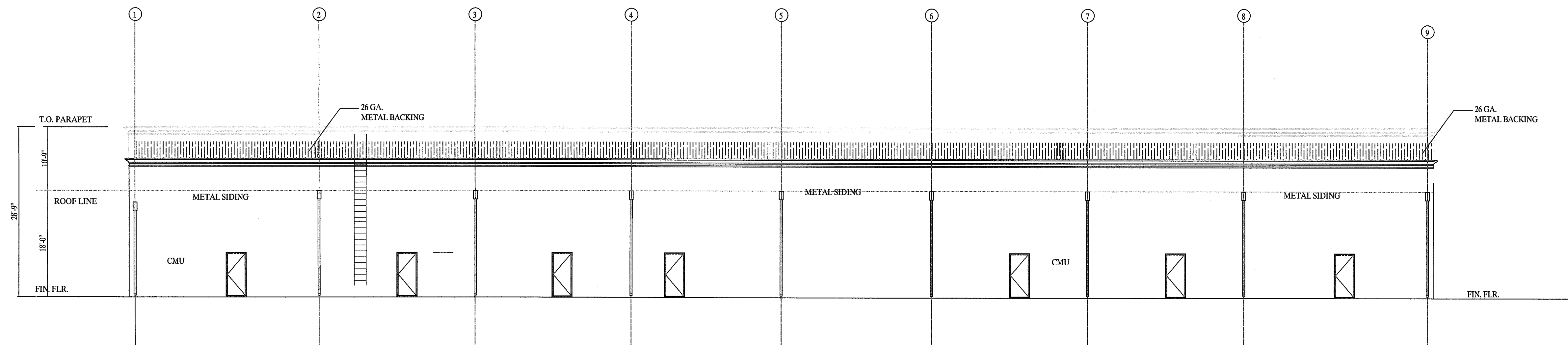
SCALE: 3/32" = 1'-0"



RIGHT ELEVATION

SCALE: 3/32" = 1'-0"

SUBJECT TO FIELD CORRECTION



REAR ELEVATION

SCALE: 3/32" = 1'-0"

REVISIONS	
No.	DATE DESCRIPTION
1	
2	
3	
4	

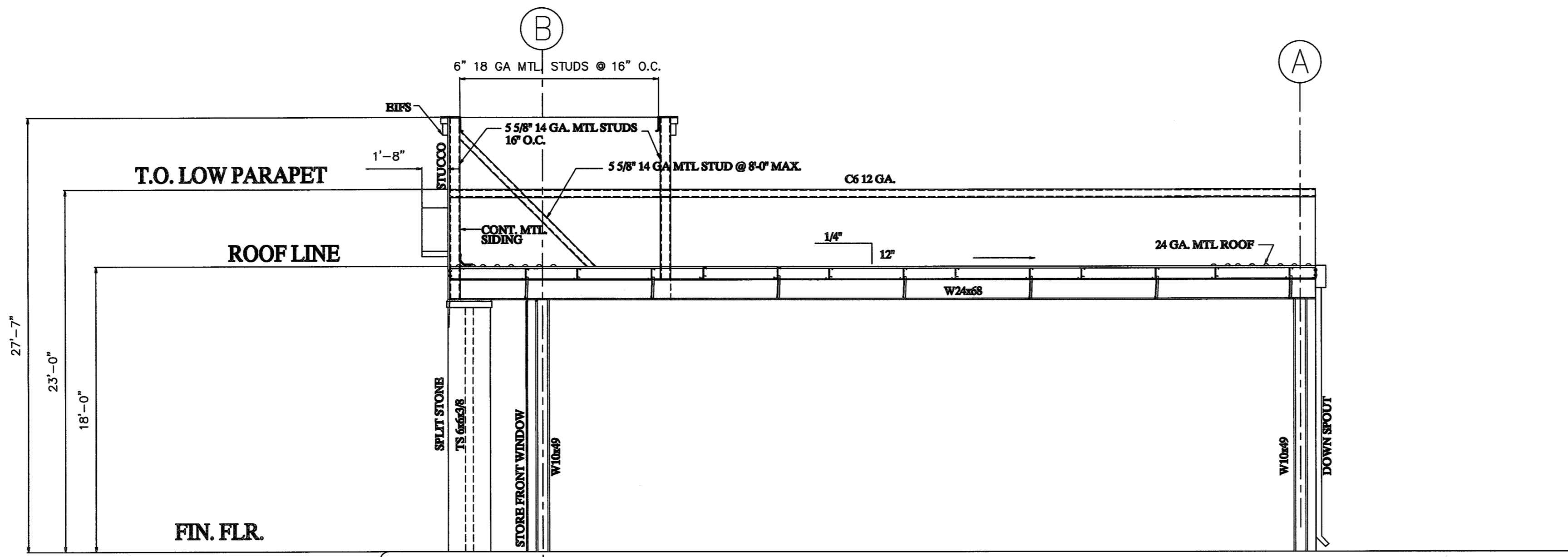
THIS DRAWING IS PROPERTY OF CLAY ASSOCIATES LLC AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART OR USED FOR FURNISHING ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION FROM CLAY ASSOCIATES LLC. CONTRACTOR IS RESPONSIBLE FOR ANY DISCREPANCY WITHIN THE PLANS & ENGINEER WILL BE NOTIFIED IMMEDIATELY FOR ADJUSTMENT OR VERIFICATION.

THIS DOCUMENT WAS AUTHORIZED BY DOUGLAS MILLER P.E. NO. 78419 ON 06/01/18 FIRM No. 9837

CLAY ASSOCIATES LLC
 PROFESSIONAL ARCHITECTURAL FIRM
 2215 N. ALLEN GENOA
 HOUSTON, TEXAS 77002
 (281) 465-4771
 EMAIL: clayassociates@clayllc.com

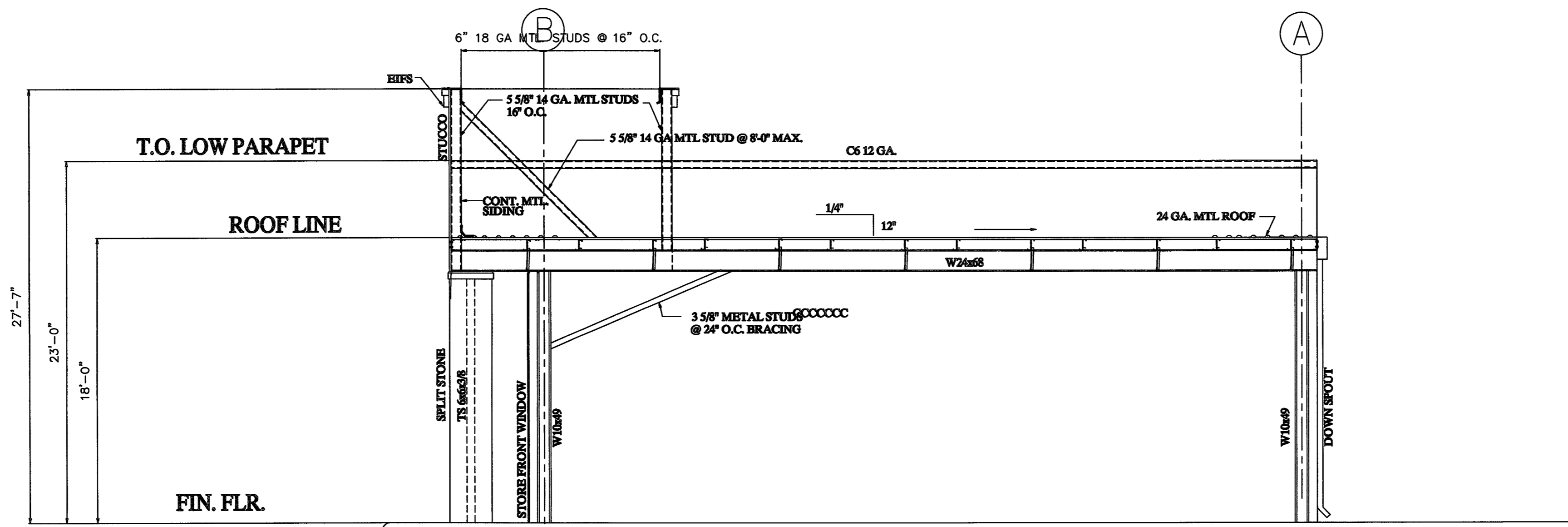
ALLEN GENOA SHOPPING PLAZA
 ARCHITECTURAL ELEVATIONS
 2215 N. ALLEN GENOA
 HOUSTON TEXAS

DATE: 06-01-18
 CHECKED BY: b.clay
 DESIGNED BY: B.CLAY
 SCALE: NOTED
 JOB No: CAE-060118
 FILE: MEKONG



SECTION 1

SCALE: 3/16"=1'-0" (RE: A-2)



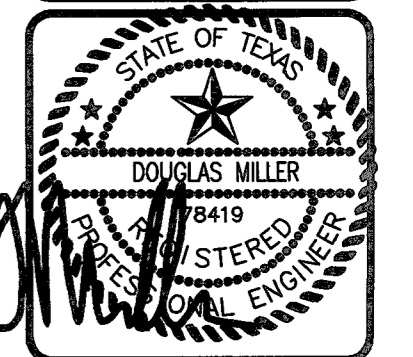
SECTION 2

SCALE: 3/16"=1'-0" (RE: A-2)

SUBJECT TO
FIELD CORRECTION

REVISIONS	
No.	DATE DESCRIPTION
1	
2	
3	
4	

THIS DRAWING IS PROPERTY OF CLAY ASSOCIATES AND IS NOT TO BE REPRODUCED, COPIED, OR FINISHED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION FROM CLAY ASSOCIATES. CONTRACTOR IS RESPONSIBLE FOR ANY DISCREPANCIES ON FIELD TO CONTACT ENGINEER WITHIN THE PLANS & DISCIPLINES ON FIELD TO CONTACT ENGINEER IMMEDIATELY FOR ADJUSTMENT OR VERIFICATION.



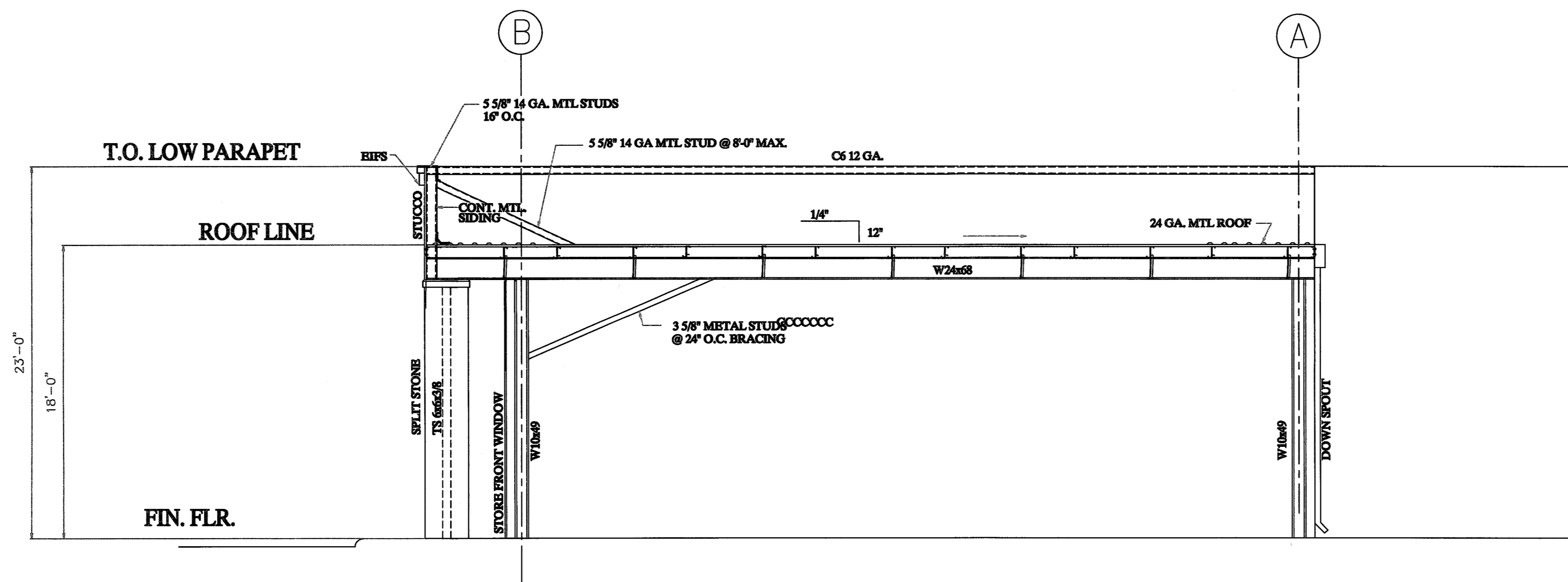
THIS SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DOUGLAS MILLER P.E. NO. 78419 ON 01/17/17. No. 9837

CLAY ASSOCIATES LLC
 ARCHITECTURAL SECTIONS
 2215 N. ALLEN GENOA
 HOUSTON TEXAS
 77003-1808
 (281) 461-1111
 www.clayassociates.com

ALLEN GENOA PLAZA
 C
 ARCHITECTURAL SECTIONS
 2215 N. ALLEN GENOA
 HOUSTON TEXAS

DATE: 06-01-18
 CHECKED BY: b.clay
 DESIGNED BY: B.CLAY
 SCALE: NOTED
 JOB No: CAE060118
 FILE: MECONG

SHEET:
A-5
 1 OF 1



SECTION 3

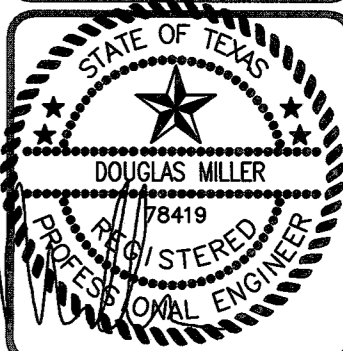
SCALE: 3/16" = 1'-0" (RE: A-2)

SUBJECT TO
FIELD CORRECTION

REVISIONS	
No.	DATE DESCRIPTION
1	
2	
3	
4	

THIS DRAWING IS PROPERTY OF CLAY ASSOCIATES AND IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION FROM CLAY ASSOCIATES.

CONTRACTOR IS RESPONSIBLE FOR ANY DISCREPANCY WITHIN THE PLANS & ENGINEER WILL BE NOTIFIED IMMEDIATELY FOR RECORD OR VERIFICATION.



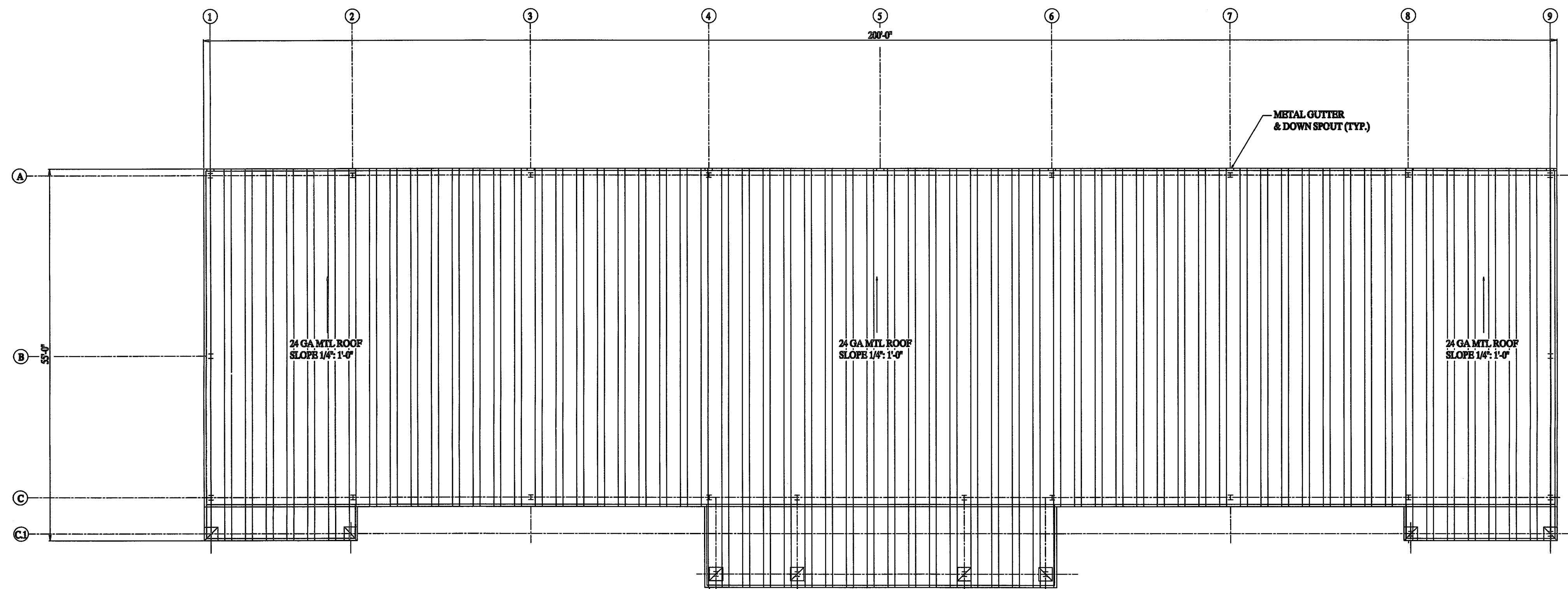
THIS SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DOUGLAS MILLER P.E. NO. 78419 ON 06/01/18

CLAY ASSOCIATES LLP
 14607 HILCROFT
 HOUSTON, TEXAS 77040
 PHONE: 281.441.1111
 FAX: 281.441.1112
 EMAIL: info@clay.com

ALLENN GENOA PLAZA
 ARCHITECTURAL
 BUILDING SECTIONS
 14607 HILCROFT
 HOUSTON TEXAS

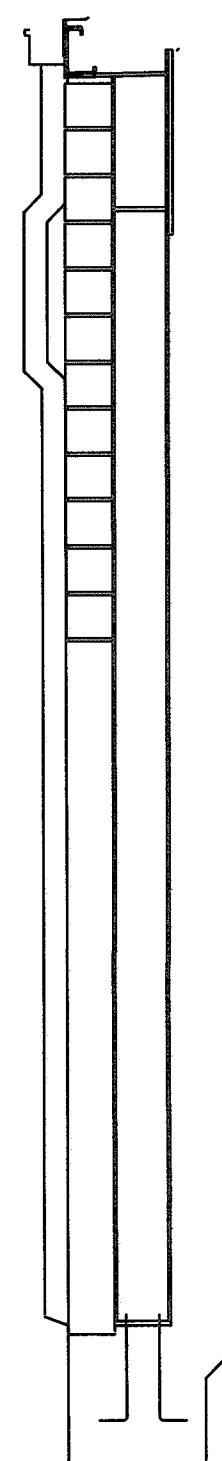
DATE: 06-01-18
 CHECKED BY: b.clay
 DESIGNED BY: B.CLAY
 SCALE: NOTED
 JOB No: CAE010118
 FILE: MEK018

SHEET:
A-6
 1 OF 1

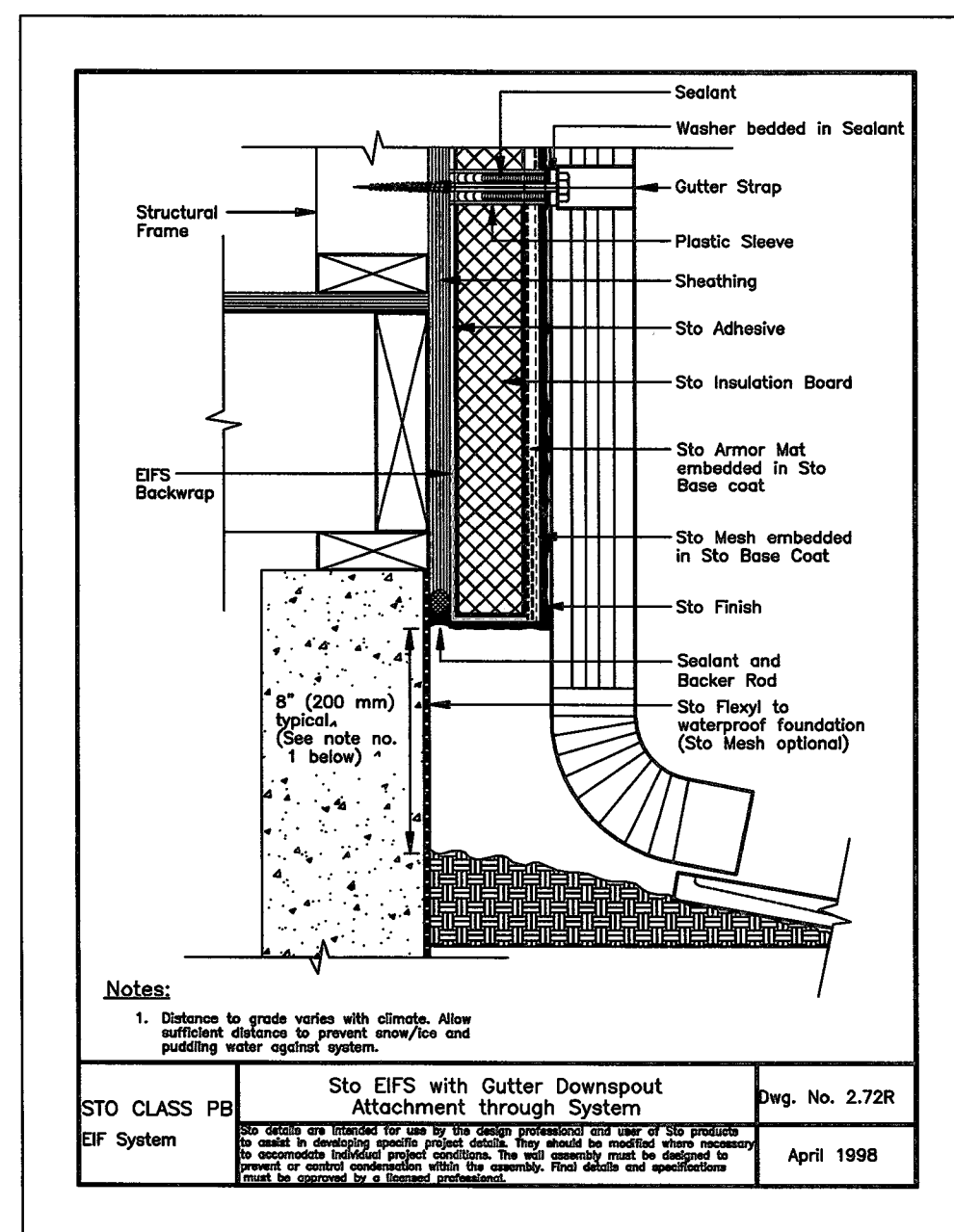
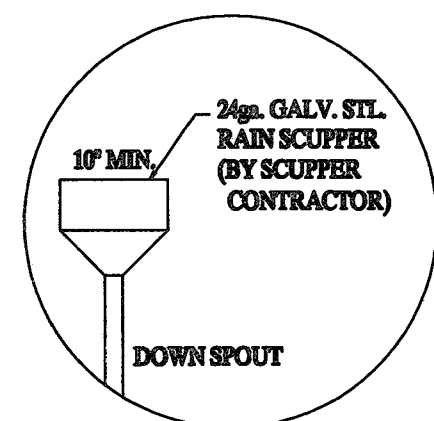


ROOF PLAN

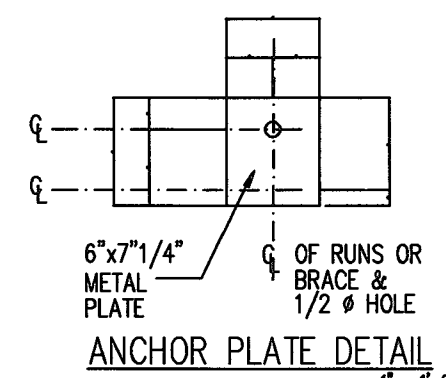
SCALE: 3/32" = 1'-0"



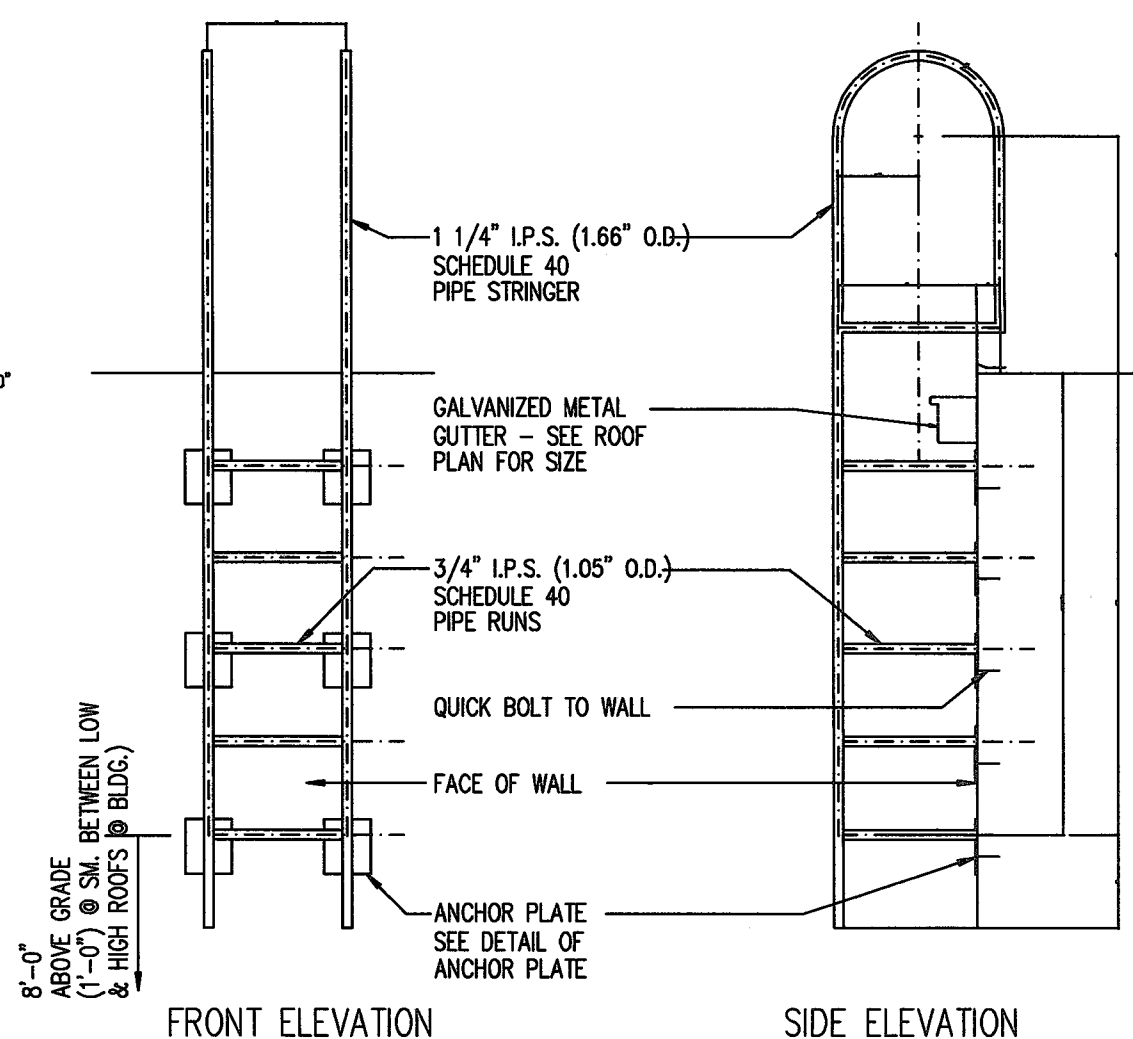
TYPICAL GUTTER DETAIL 1



Notes:
 1. Customer to grade series with climate. Allow sufficient clearance to prevent snow/ice and pooling water against system.
 STO CLASS PB Sto EIFS with Gutter Downspout Attachment through System Dep. No. 2.72R
 EIF System April 1998



NOTE:
 HOT-DIP GALVANIZE AFTER FABRICATION STEEL TO BE PRIMED AND PAINTED BY 2 COATS OF OIL BASE ENAMEL COLOR TO BE SELECTED BY ARCHITECT.



ROOF ACCESS LADDER

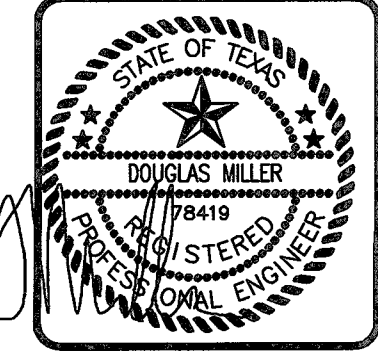
SCALE: 1/2" = 1'-0"

SEE ROOF PLAN FOR APPROX. LOCATION. COORDINATE EXACT LOCATION ON JOB SITE WITH ARCHITECT.

SUBJECT TO FIELD CORRECTION

REVISIONS		
No.	DATE	DESCRIPTION
1		
2		
3		
4		

THIS DRAWING IS THE PROPERTY OF CLAY ASSOCIATES LLC AND IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION FROM CLAY ASSOCIATES. CONTRACTOR IS RESPONSIBLE FOR ANY DISCIPLINES ON FIELD TO CONTACT ENGINEER ON RECORD IMMEDIATELY FOR ADJUSTMENT OR REPERMITS.



THIS SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DOUGLAS MILLER P.E. NO. 78419 ON 01/28/17 FILE NO. 9837

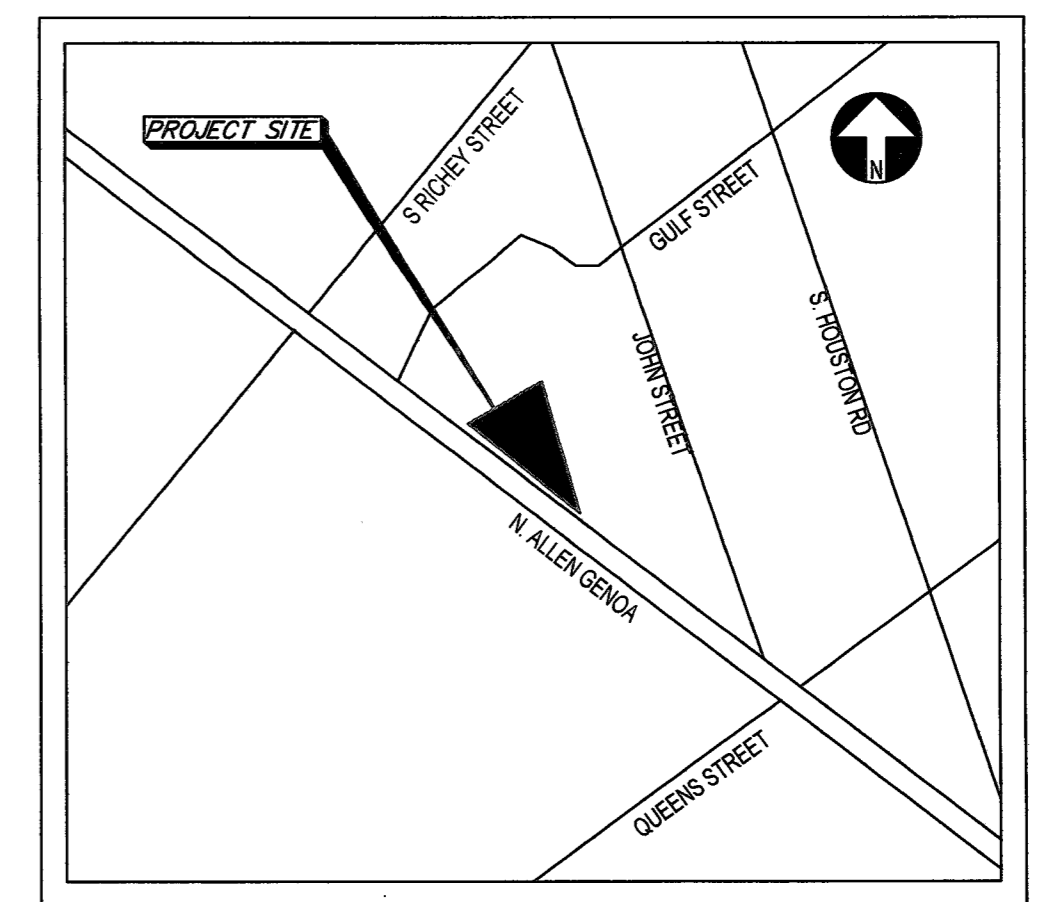
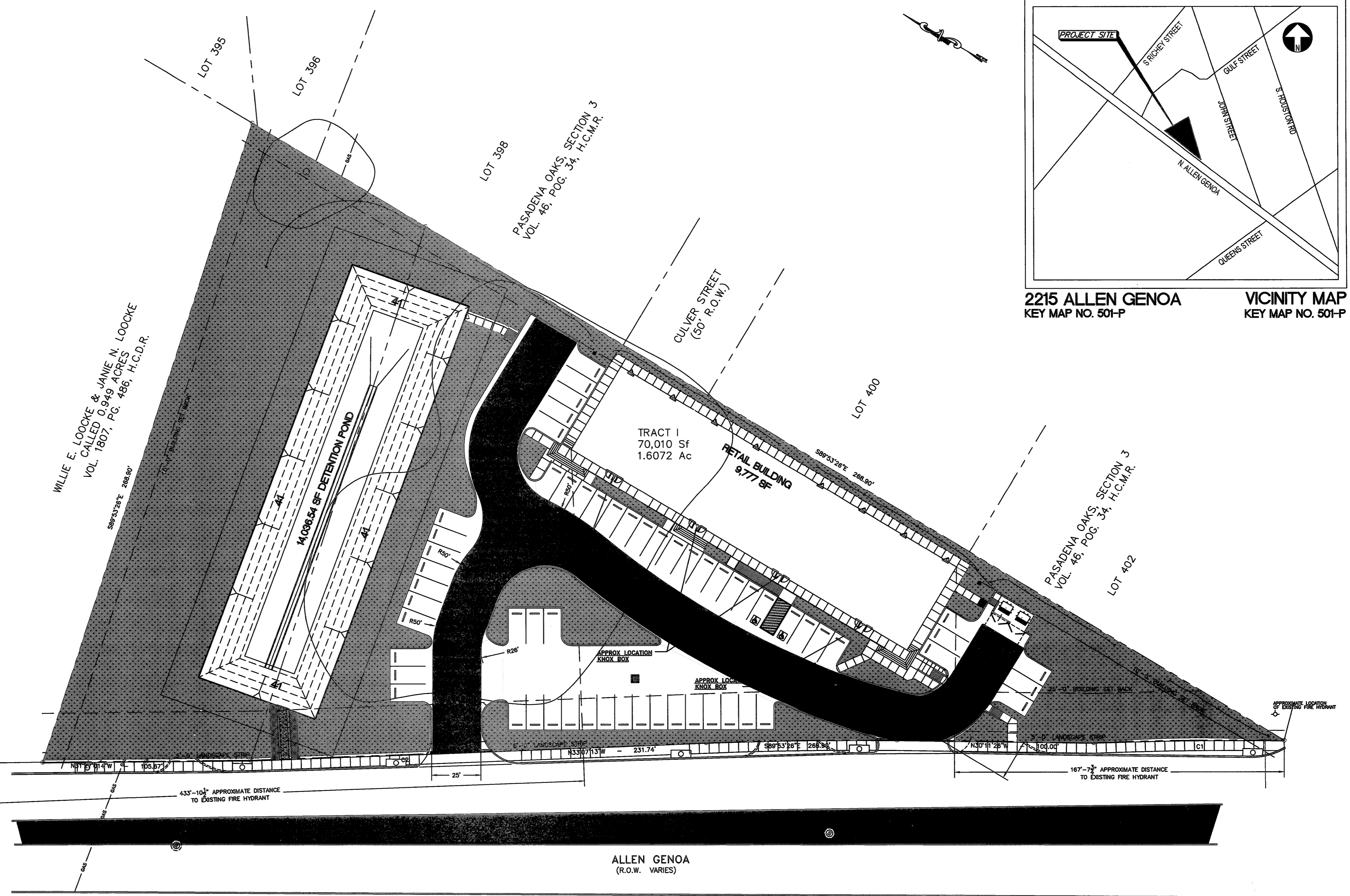
CLAY ASSOCIATES LLC
 ARCHITECTURAL
 14607 HILCROFT DRIVE
 HOUSTON, TEXAS 77057
 (281) 460-0770
 EMAIL: clay@clayassoc.com

HILCROFT RETAIL & BUSINESS CTR
 ARCHITECTURAL
 ROOF PLAN
 14607 HILCROFT DRIVE
 HOUSTON TEXAS

DATE: 0128-17
 CHECKED BY: b.clay
 DESIGNED BY: B.CLAY
 SCALE: NOTED
 JOB No.:
 FILE: TRI

SHEET:
A-7
 1 OF 1

City of Pasadena – Building Code(s)
 2015 International Building Code
 2015 International Energy Code
 2015 International Fire Code
 2015 International Fire Code Ordinance
 2015 International Fuel and Gas Code
 2015 International Residential Code
 2015 Mechanical Code, with local amendments
 2017 National Electrical Code, Ordinance



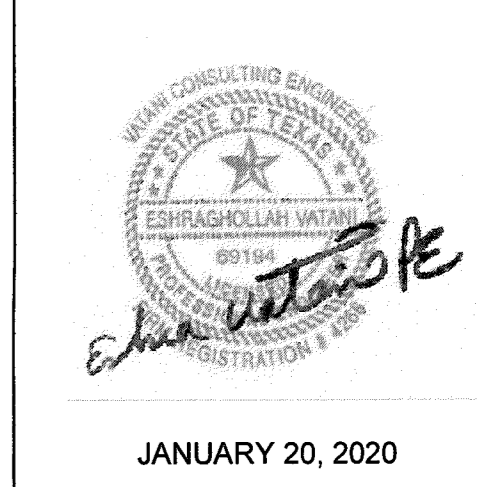
VANANZ CONSULTING ENGINEERS, PLLC
 5700 NW CENTRAL DR. STE. 220
 HOUSTON, TX 77041
 PHONE: (713) 400-0005
 FAX: (713) 400-0555
 www.vananz.com

DRAWINGS ISSUED FOR:

03-25-19	RE-DESIGN SITE
03-26-19	PRELIMINARY
04-01-19	SUBMITAL DESIGN
04-30-19	SWALE REVISION
10-10-19	REV PER C.O.P.
12-16-19	REV PER C.O.P.

Issued for Construction

REVISIONS

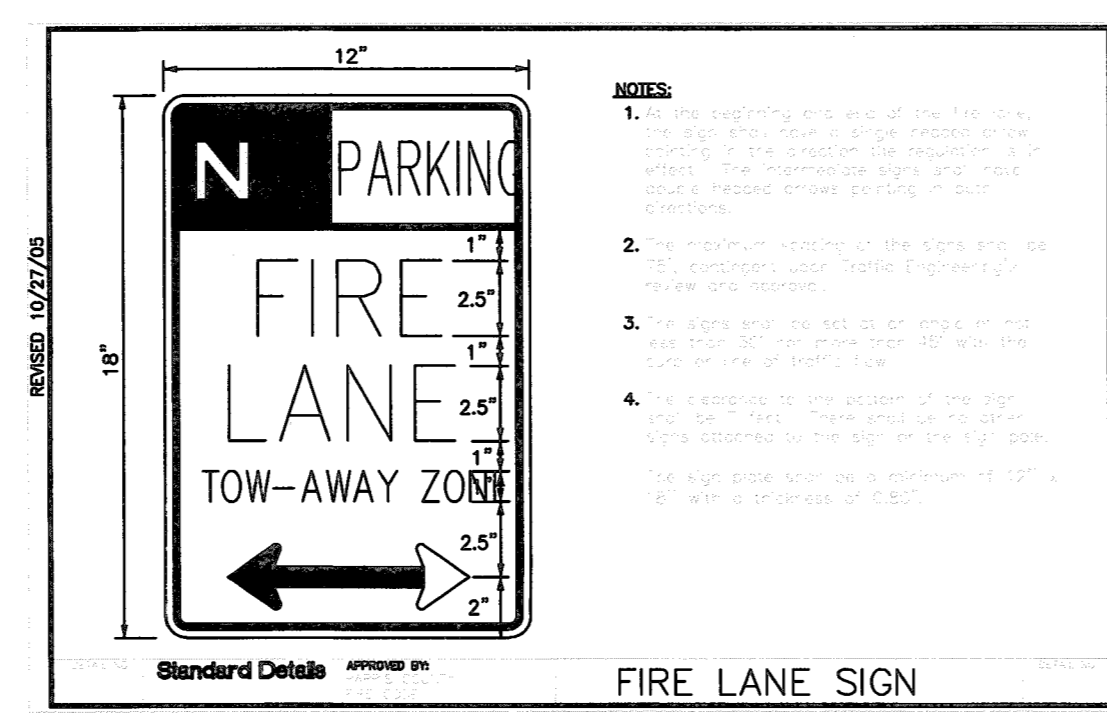


"ALLEN GENOA" COMMERCIAL FACILITY
RETAIL LEASE SPACE
 2215 ALLEN GENOA
 PASADENA, TEXAS 77512
 A PROJECT OF:
THOMAS NGUYEN

DRAWING TITLE
FIRE LANE SITE PLAN

DWG #
F-1

- GENERAL NOTES:**
- ALL FIRE LANES SHALL EXTEND TO WITHIN 150 FEET OF ALL EXTERIOR PORTIONS OF THE FACILITY AND EXTERIOR WALLS OF THE FIRST STORY OF THE BUILDING AS MEASURED BY AN APPROVED ROUTE.
 - ALL FIRE LANES SHALL BE POSTED AND MARKED, AND SHALL BE DESIGNATED AS TOW AWAY ZONES BY THE BUILDING OWNER/TENANT. ALL FIRE LANES WITHIN THE CITY SHALL BE MARKED USING SIGNS, PAVEMENT MARKINGS OR CURB MARKINGS WITH THE FOLLOWING SPECIFICATIONS.
 - PAVEMENT MARKINGS** - ALL PAVEMENT MARKINGS SHALL BE INSTALLED USING RED AND WHITE TRAFFIC PAINT. THE BOUNDARIES OF THE FIRE LANE SHALL BE IDENTIFIED BY RED STRIPES AT LEAST 6 INCHES WIDE. THE WORDS "FIRE LANE - NO PARKING - TOW AWAY ZONE" SHALL APPEAR IN 4-INCH WHITE LETTERS AT 25 FOOT ALTERNATING INTERVALS ON THE RED BORDER MARKINGS.
 - CURB MARKINGS** - CURB MARKINGS SHALL BE PAINTED IN RED TRAFFIC PAINT FROM THE TOP SEAM OF THE CURB TO A POINT EVEN WITH THE DRIVING SURFACE. THE WORDS "FIRE LANE - NO PARKING - TOW AWAY ZONE" SHALL APPEAR IN 4-INCH LETTERS AT 25 FOOT INTERVALS ALONG CURBS.
 - SIGNS MAY BE USED IN LIEU PAVEMENT MARKINGS, AS APPROVED. SIGNS SHALL CONFORM TO THE STANDARDS LISTED BELOW AND IN ACCORDANCE TO CITY OF TOMBALL ORDINANCE SEC. 34-74 A) SIGNS SHALL READ "NO PARKING FIRE LANE - TOW AWAY ZONE". SIGNS SHALL BE 12 INCHES WIDE AND 18 INCHES HIGH. SIGNS SHALL BE PAINTED ON WHITE BACKGROUND WITH LETTERS AND BORDERS IN RED, USING NOT LESS THAN 2 INCHES LETTERING. SIGNS SHALL BE PERMANENTLY AFFIXED TO A STATIONARY POST AND THE BOTTOM OF THE SIGN SHALL BE 6 FEET - 6 INCHES ABOVE FINISHED GRADE. SIGNS SHALL BE SPACED NOT MORE THAN 30 FEET APART. SIGNS MAY BE INSTALLED IN PERMANENT BUILDINGS OR WALLS OR AS APPROVED BY THE FIRE MARSHAL.

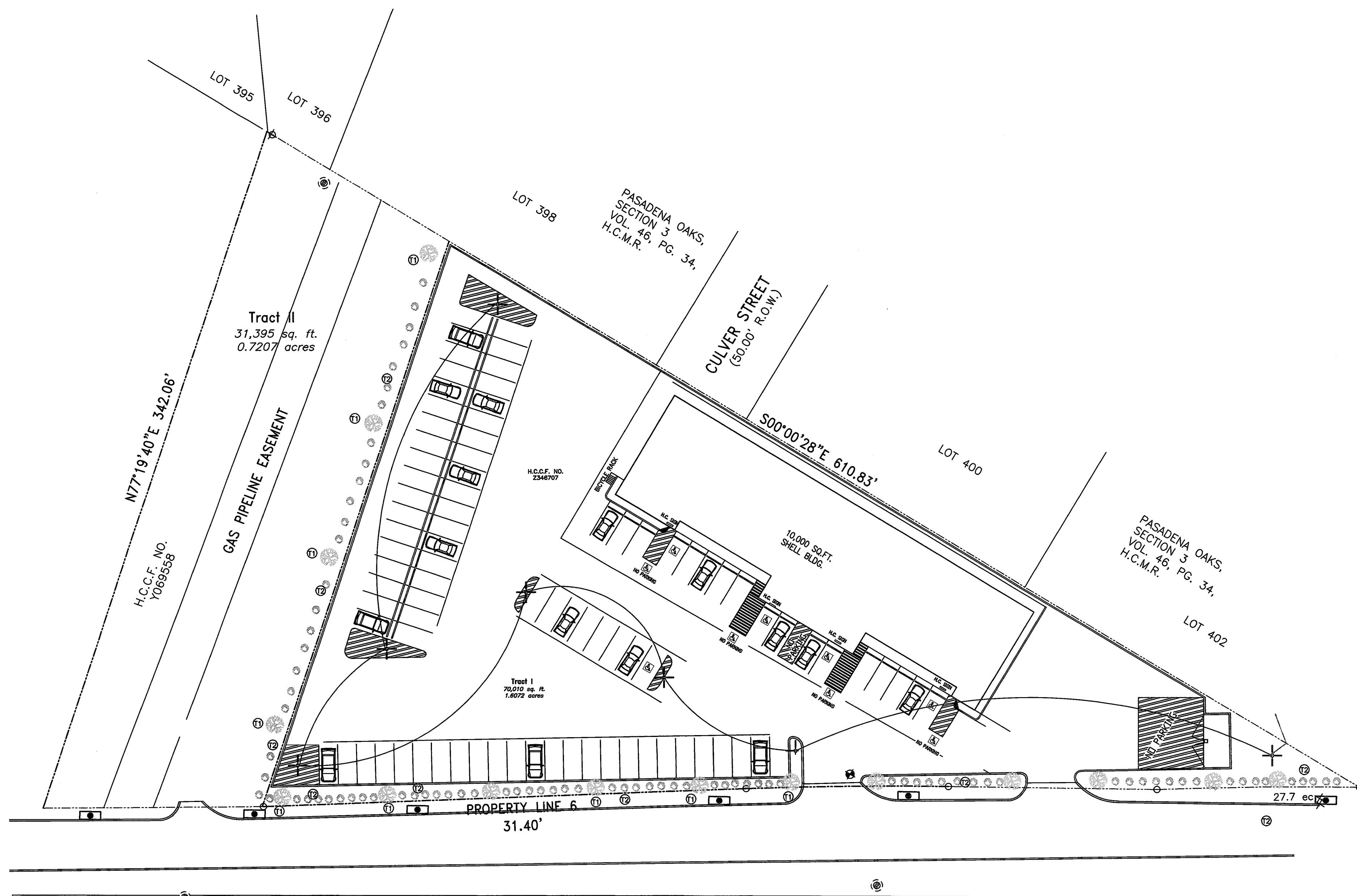


KNOX BOX
 FIRE DEPT - KEY ACCESS BOX
 SURFACE MOUNTED ON WALL AT BOTH ENCLOSED STRUCTURES
 CONVENIENCE STORE AT LOCATIONS SHOWN.
 RETAIL BUILDING AT LOCATIONS SHOWN.

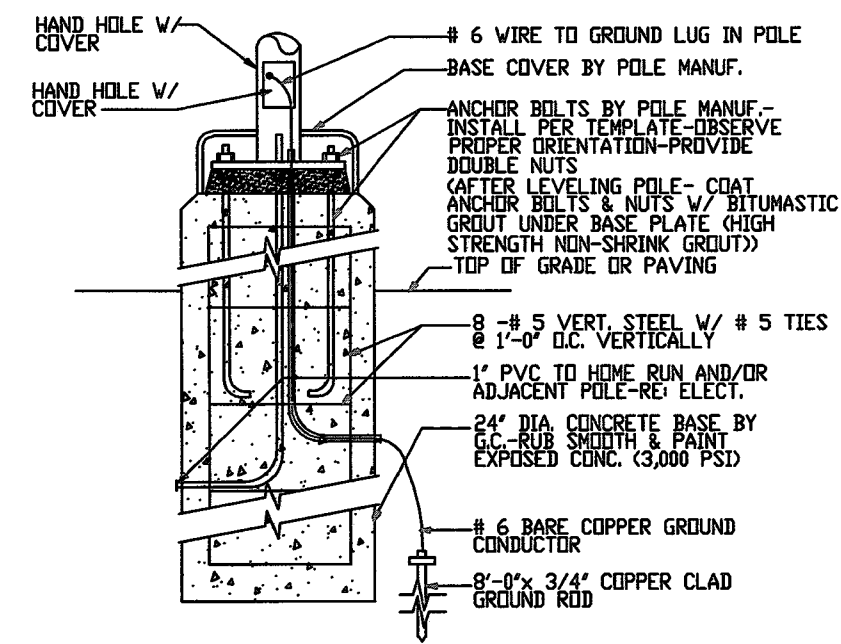
- TRAFFIC CONTROL PLAN NOTES**
- Contractor will provide and install traffic control devices in conformance with Part VI of the Texas Manual on Uniform Traffic Control Devices (TMUTCD - LATEST EDITION WITH REVISIONS) DURING CONSTRUCTION.
 - No lanes shall be blocked during construction.

SUBJECT TO FIELD CORRECTION

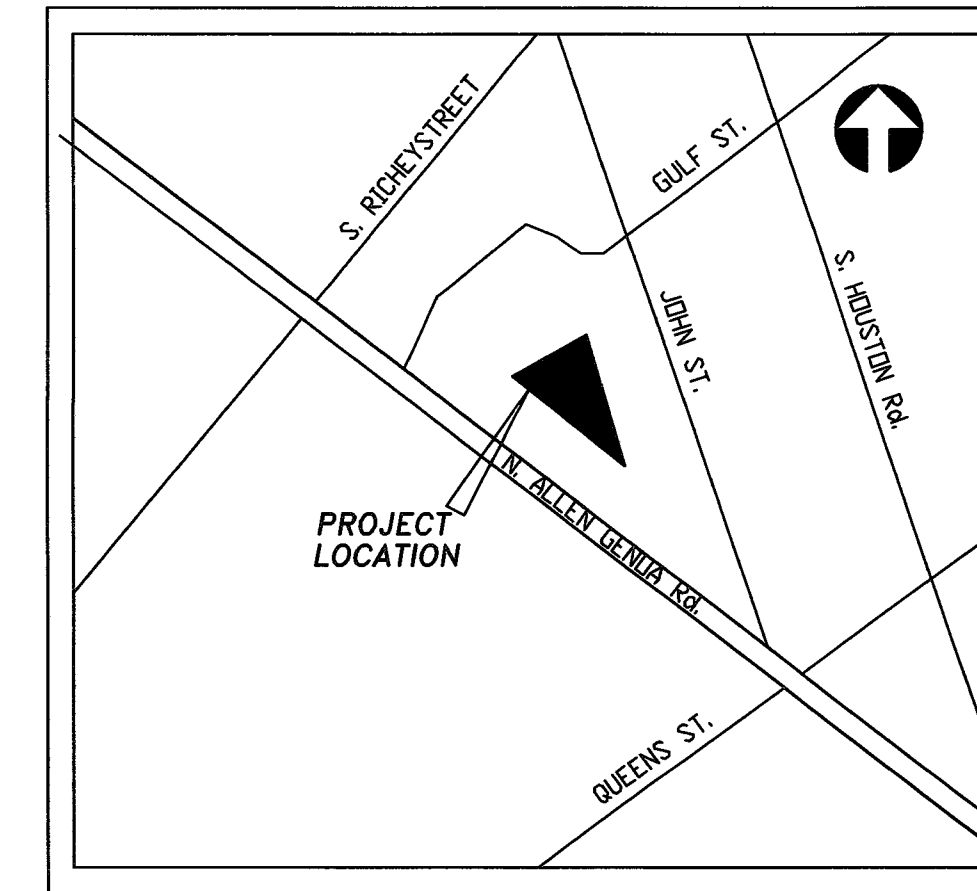
FIRE LANE SITE PLAN
 SCALE 1"=30'-0"



ALLEN GENOA ROAD



LIGHT POLE BASE
N.T.S.



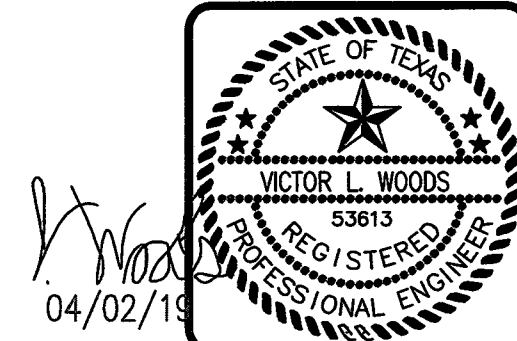
VICINITY MAP

MUST COMPLY WITH
2017 NEC

ELECTRICAL APPROVED
SUBJECT TO
FIELD INSPECTION

NO.	DATE	DESCRIPTION
1		
2		
3		
4		

THIS DRAWING IS PROPERTY OF CLAY ASSOCIATES LLC AND IS TO BE USED ONLY FOR THE PROJECT AND PERMITTED BY CLAY ASSOCIATES LLC. CONTRACTOR IS RESPONSIBLE FOR ANY DISCREPANCY WITHIN THE PLANS & ENGINEER ON RECORD IMMEDIATELY FOR ADJUSTMENT OR VERIFICATION.

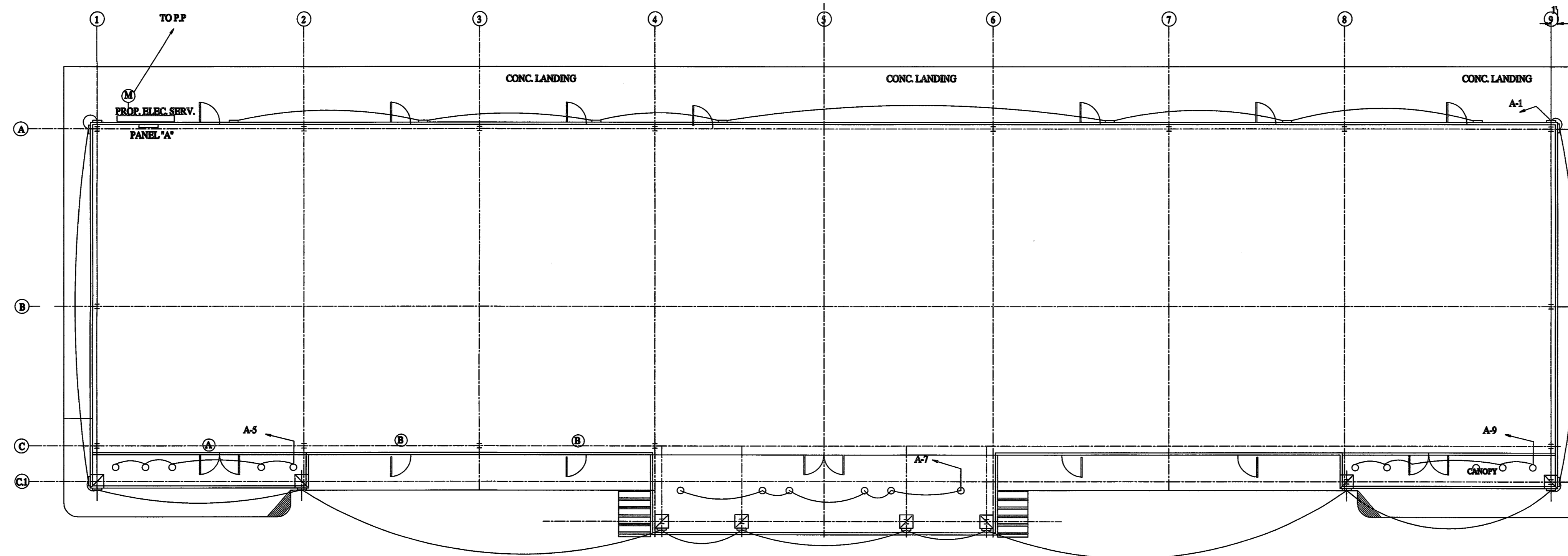


DOCUMENT WAS AUTHORIZED BY VICTOR WOODS P.E. NO. 53613 ON 08/28/19 CLAY ASSOCIATES ON 08/28/19 JOB NO. 7-20806



ALLEN GENOA SHOPPING PLAZA
ELECTRICAL SITE PLAN
2215 N. ALLEN GENOA
PASADENA TEXAS

DATE: 06-01-18
CHECKED BY: b.clay
DESIGNED BY: B.CLAY
SCALE: NOTED
JOB No: CAE060118
FILE: MEKONG



ELECTRICAL FLOOR PLAN

SCALE: 3/32" = 1'-0"

ELECTRICAL SPECIFICATIONS-

1. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF NATIONAL ELECTRICAL CODE BUILDING CODE, ALL APPLICABLE STATE AND LOCAL ORDINANCES
2. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL UTILITY REQUIREMENTS WITH H&P. MAKE ARRANGEMENTS AND PAY ALL FEES REQUIRED FOR CONNECTION OF ELECTRICAL UTILITY.
3. OBTAIN ALL PERMITS REQUIRED TO DO THIS WORK AND PAY ANY FEES REQUIRED FOR
4. CONTRACTOR AND SUB-CONTRACTOR SHALL PAY FOR ALL PERMITS AND CHARGES REQUIRED AND COMPLY WITH ALL GOVERNING CODES AND ORDINANCES
5. ALL WORK SHALL BE GUARANTEED FOR PERIOD ONE YEAR FROM TIME OF OWNER ACCEPTANCE WORK OR EQUIPMENT FOUND TO BE SUB-STANDARD OR FAULTY SHALL BE CORRECTED DURING THIS PERIOD AT NO COST TO OWNER, LAMPS ARE EXCLUDED.
6. ALL WORK SHOULD BE GROUNDED TO COMPLY WITHOUT EXCEPTION WITH ALL PROVISION OF ARTICLE 250 NEC
7. ALL WORK SHALL BE PERFORMED AS PER N.E.C. AND THE REQUIREMENTS OF THE CITY OF HOUSTON AND POWER CO.
8. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MATERIALS, MACHINERY, LABOR, EQUIPMENT AND OTHER CRITERIA ESSENTIAL FOR A COMPLETE AND OPERATIONAL INSTALLATION OF THE ELECTRICAL WORK IMPLEMENTED ON THE PLANS.
9. ALL EQUIPMENT AND MATERIALS BROUGHT TO THE SITE ARE THE PROPERTY OF THE CONTRACTOR UNTIL THE OWNER HAS OFFICIALLY ACCEPTED THE FINAL INSTALLATION.
10. EACH BIDDER SHALL VISIT THE SITE OF THE PROPOSED WORK AND SHALL FULLY INFORM HIMSELF REGARDING THE FACILITIES. NO ADDITIONAL COMPENSATIONS WILL BE ALLOWED FOR WORK OR MATERIAL OMITTED FROM BIDDER'S CONTRACT PROPOSAL DUE TO HIS FAILURE TO SO INFORM HIMSELF BY SUCH INVESTIGATION.
11. PROVIDE TEMPORARY SERVICE AS REQUIRED FOR CONSTRUCTION POWER AND REMOVE SUCH TEMPORARY SERVICE IS COMPLETED
12. MADE ALL ARRANGEMENTS WITH LOCAL POWER COMPANY AND DO ALL WORK NECESSARY TO PROVIDE PERMANENT SERVICE TO BUILDING

13. ALL FUSES SHALL BE BUSSMAN "CURRENT LIMIT" TYPE FOR MINIMUM FAULT CURRENT LET THRU UNLESS OTHERWISE INDICATE
14. CONDUIT RUN IN BLDG. SHALL BE CONCEALED IN WALL OR ABOVE CEILING SHALL BE EMT UNDERGROUND FEEDERS RUN UNDER SLAB OR GRADE (AT PROPER DEEP) CAN BE SCH 40 PVC WITH GROUND WIRE SIZED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.
15. ALL UNDERGROUND ELECTRICAL WIRING CONDUITS TO BE INSTALLED AT LEAST 3" BELOW FINISHED GRADE IN ANY TRAFFIC AREAS.
16. ALL WIRE SHALL BE COPPER USING TYPE THW OR THWN MINIMUM #12 UNLESS OTHERWISE NOTE
17. COORDINATE LOCATION OF TELEPHONE W/GENERAL CONTRACTOR OR OWNER PROVIDE EMPTY CONDUIT SIZE WITH FULL STRING AS NEEDED.
18. ALL SWITCHES @48" AFF & ALL RECEPTACLES @18" AFF UNLESS OTHERWISE INDICATE.
19. PROVIDE SPECIFIED LIGHT FIXTURE WITH FINAL LOCATION WITH ARCHITECT OR OWNER.
20. COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES TO AVOID ANY CONFLICTS.
21. VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND FROM ARCHITECTURAL PLANS
22. CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO THE PLACEMENT OF ELECTRICAL EQUIPMENT ON THE BUILDING.
23. BEFORE ANY ELECTRICAL INSTALLATION, ELECTRICAL CONTRACTOR SHALL VERIFY NAME PLATE OF EQUIPMENTS AND PAY ATTENTION TO LATEST DEVICES ELECTRICAL SPECIFICATION OF RATE AMPS VOLTS, PHASE, WIRE SIZE CIRCUIT PROTECTION AS WELL AS THE LOCATION AND MOUNTING DETAIL PER VENDOR'S SPECIFICATION DRAWING. NOTIFY THE ARCHITECT ANY CHANGE FROM DESIGN DRAWING.
24. COORDINATE LOCAL POWER COMPANY FOR EXACT LOCATION ELECTRICAL SERVICE.
25. ELECTRICAL CONTRACTOR SHOULD CHECK AND BALANCE AMPS PHASE CONDUCTOR ALL PANELS AND SERVICE.
26. ALL PANEL BOARDS SHALL HAVE A TYPE WRITTEN SCHEDULE OF EQUIPMENT LOADED ON EACH CIRCUIT.
27. COMPLIANCE OF STATE ENERGY CODE
28. WHERE PORTIONS OF INTERIOR RACEWAY SYSTEM ARE EXPOSED TO WIDELY DIFFERENT TEMPERATURES, CIRCULATION OF AIR FROM WARMER TO A COLDER SECTION SHALL BE PREVENTED.

LIGHTING FIXTURE SCHEDULE & LEGEND

- WALL MOUNTED FLOOD LIGHT WEATHER PROTECTED HI-TEK LITHONIA MODEL WAL-PAK, TWH SERIES HPS250A 120V, HIGH POWER FACTOR BALLAST, PHOTOCCELL ACTIVATED.
- SOFFIT LIGHT WITH THERMAL PROTECTION SCOTTSDALE SCEG-S-250-PSMV-PG MT-WHT-TP, 120V, 250W. PHOTOCCELL ACTIVATED.
- COLUMN MOUNTED FLOOD LIGHT, 150W, 120V WEATHER PROTECTED HI-TEK LITHONIA DECORATIVE LIGHT (PROVIDED BY OWNER) PHOTOCCELL ACTIVATED.

MUST COMPLY WITH 2017 NEC

ELECTRICAL APPROVED SUBJECT TO FIELD INSPECTION

REVISIONS	
No.	DATE DESCRIPTION
1	
2	
3	
4	

THIS DRAWING IS PROPERTY OF CLAY ASSOCIATES AND IS TO BE KEPT IN WHOLE OR IN PART OR USED FOR FURNISHING INFORMATION TO OTHERS WITHOUT WRITTEN PERMISSION FROM CLAY ASSOCIATES. CONTRACTOR IS RESPONSIBLE FOR ANY DISCREPANCY WITHIN THE PLANS & NUMBER OF REVISIONS. CONTRACTOR SHALL VERIFY OR VERIFY.



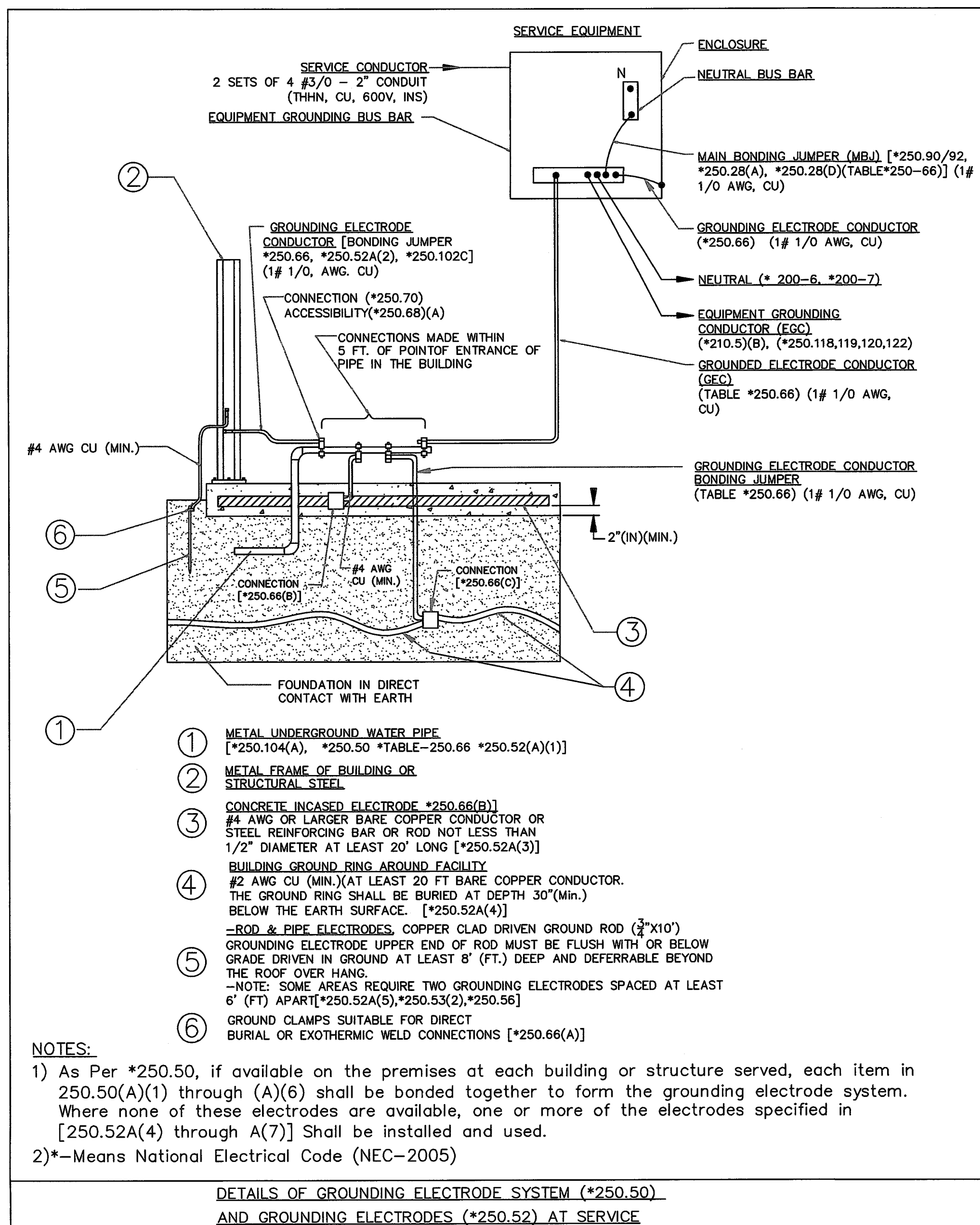
NO. 53613
REGISTERED PROFESSIONAL ENGINEER
VICTOR L. WOODS
ON 08/20/19
CLAY ASSOCIATES
ON 08/20/19 No. F-20888

CLAY ASSOCIATES LLC
REGISTERED PROFESSIONAL ENGINEER
VICTOR L. WOODS
53613
CLAY ASSOCIATES LLC
2215 N. ALLEN GENOA
PASADENA TEXAS 77504

ALLEN GENOA PLAZA
ELECTRICAL FLOOR PLAN
2215 N. ALLEN GENOA
PASADENA TEXAS

DATE: 08-20-19
CHECKED BY: b.clay
DESIGNED BY: B.CLAY
SCALE:
JOB No.:
FILE:

SHEET: E-1
OF



PANEL H
 IC= 22KAIC (SERIES RATED)
 SERVICE 208Y/120 VOLTS, 3PH, 4W
 MAINS : 100AMPS WITH MCB
 CABINET : SURFACE MOUNTED
 WITH GROUND BUS

LOAD	WIRE	BRK.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
POLE LIGHT	1600	10	30/2																															
POLE LIGHT	1600	10	30/2																															
POLE LIGHT	1600	10	30/2																															
POLE LIGHT	1600	10	30/2																															
POLE SIGN	1200	10	30																															
SPARE																																		

CONNECTED LOAD IN AMPS/PHASE : 18500VA/360 = 51.4 A

LOAD ANALYSIS FOR THE BUILDING AT SERVICE OUTLET
 208Y/120, 3 PH., 4 WIRES

	A	B	C	NEUTRAL
	AMPS	AMPS	AMPS	AMPS
LEASE 1-10 (10x1,000 S.F)	880.0	880	880	880
HOUSE PANEL	32.0	32.0	32.0	32.0
25% L.M.	6.4	6.4	6.4	6.4
TOTAL LOAD IN AMPS	918	918	918	918
SAY SERVICE @208/120V,3PH,4W				
WIRE TYPE CU @75°C	500MCM	500MCM	500MCM	500MCM
SERVICE CAPACITY IN AMPS	2280	2280	2280	2280

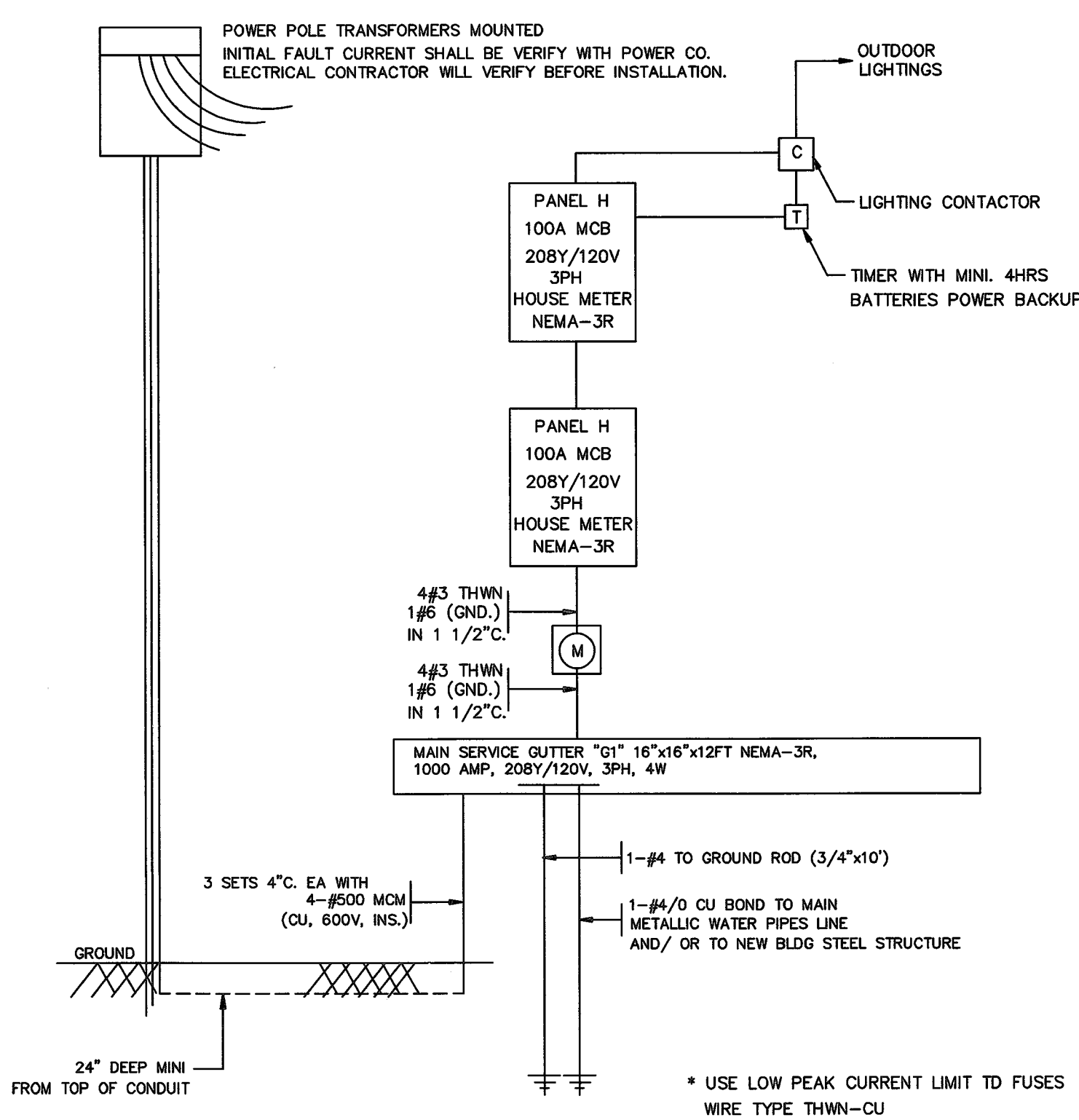
10(TEN) FUTURE LEASE SPACES, EA. ONE:

1,000- S.F. LEASE SPACE (TYPICAL)

GEN. LIGHTING	1,000x3VAx1.25	= 3750 VA
RECEPTACLES	1,000 x 1VA	= 1,000 VA
WATER HEATER		= 4,500 VA
EXIT/EMER. LIGHT	14x50x1.25	= 875 VA
SIGN	1200x1.25	= 1,500 VA
AC- (ELEC. HEATER)		= 10,000 VA
ALLOW. FOR TENANT EQUIP.		= 10,000 VA
TOTAL LOAD CONNECTED		= 47025 VA
TOTAL AMPS/PHASE	31,625/208*1.732	= 88 AMP

HOUSE PANEL

POLE LIGHTS	6x400VAx1.25	= 3000 VA
WALL LIGHTS	11x250x1.25	= 3,438 VA
SOFFIT LIGHTS	16x250x1.25	= 4375 VA
COLUMN LIGHTS	6x150x1.25	= 1,125 VA
		= VA
TOTAL LOAD CONNECTED		= 11938 VA
TOTAL AMPS/PHASE	11438/208*1.732	= 33.16 A



ELECTRICAL ONE LINE DIAGRAM
 ELECTRICAL SERVICE ENTRANCE - TYPICAL FOR THE RETAIL BUILDING (AREA: 11,000 SF. EACH BUILDING)
 ELECTRICAL CONTRACTOR NEED TO VERIFY EXACTY CONDITION AT JOB SITE

MUST COMPLY WITH 2017 NEC
 ELECTRICAL APPROVED SUBJECT TO FIELD INSPECTION

REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
3		
4		

THIS DRAWING IS PROPERTY OF CLAY ASSOCIATES AND IS TO BE KEPT IN FILE OR COVERED IN HOLE OR IN PART OR USED FOR FURNISHING INFORMATION TO OTHERS WITHOUT WRITTEN PERMISSION FROM CLAY ASSOCIATES
 CONTRACTOR IS RESPONSIBLE FOR ANY DISCREPANCY WITHIN THE PLANS & ENGINEER IS NOT RESPONSIBLE FOR ADJUSTMENT OR VERIFICATION

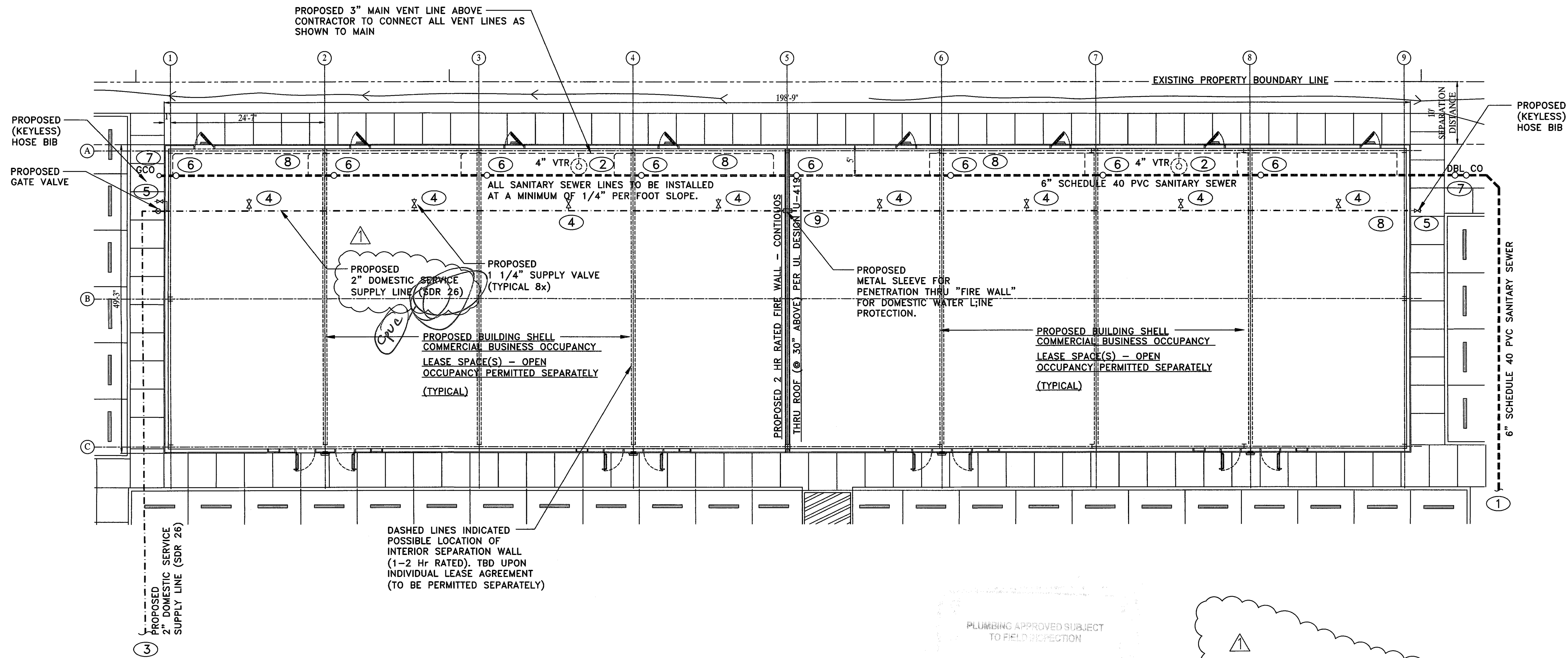


08/20/19

CLAY ASSOCIATES LLC
 REGISTERED PROFESSIONAL ENGINEER
 53613
 STATE OF TEXAS

ALLEN GENOA SHOPPING PLAZA
 ELECTRICAL ONE LINE AND SCHEDULES
 2215 N. ALLEN GENOA
 PASADENA TEXAS

DATE: 08-23-2019
 CHECKED BY: b.clay
 DESIGNED BY: B.CLAY
 SCALE:
 JOB No: CAE000618
 FILE: MEXONG



DASHED LINES INDICATED POSSIBLE LOCATION OF INTERIOR SEPARATION WALL (1-2 Hr RATED). TBD UPON INDIVIDUAL LEASE AGREEMENT (TO BE PERMITTED SEPARATELY)

PLUMBING APPROVED SUBJECT TO FIELD INSPECTION

ALL OUTSIDE HOSEBIBS SHALL HAVE APPROVED VACUUM BREAKERS

APPROVED BACK FLOW SHALL BE INSTALLED

KEYED NOTES:

- ① CONNECT NEW 6" SANITARY SEWER TO SITE SANITARY SEWER. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION, MINIMUM ELEVATION TO CONNECT 5'-6" BELOW FINISHED FLOOR. (SCHEDULE 40 PVC)
- ② 6" SCHED. 40 VENT THROUGH ROOF. KEEP VENT RISER TIGHT TO INSIDE CORNER WALL.
- ③ CONNECT NEW 2" CPVC DOMESTIC COLD WATER LINE TO EXISTING SITE WATER MAIN. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
- ④ PROVIDE 1 1/4" TAP & BALL VALVE - FOR FUTURE TENANT(S).
- ⑤ 3/4" CPVC COLD WATER DOWN TO WH-1 WALL HYDRANT. VERIFY HYDRANT MOUNTING HEIGHT WITH ARCHITECT. FLOOR CLEAN-OUT.
- ⑥ GRADE CLEAN-OUT.
- ⑦ 4" SCHED. 40 PVC VENT THROUGH ROOF, KEEP VENT RISER TIGHT TO INSIDE CORNER WALL.
- ⑧ PROVIDE SLEEVED OPENING FOR DOMESTIC WATER PIPE FIRE SEAL AT PIPING PENETRATION, REFER TO ARCHITECT PLANS FOR DETAILS.

GENERAL NOTE TO CONTRACTOR

1. ALL WORK, MATERIALS AND INSTALLATIONS INVOLVED IN THIS PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH UNIFORM PLUMBING CODE AND INSPECTION REGULATIONS AND ALL OTHER APPLICABLE HAVING JURISDICTION. ALL WORKS TO MEET CITY OF HOUSTON UNIFORM PLUMBING CODES ADDITIONS.
2. THE CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCT WORK AND CONDUIT SHOULD A CONFLICT OCCUR THE CONTRACTOR SHALL NOTIFY THE ARCHITECT / ENGINEER PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.
3. ALL COUNTER MOUNTED LAVATORIES TO HAVE INSULATION ON ALL EXPOSED PIPES PER ADA REQUIREMENTS.
4. ALL MATERIALS TO BE OF COMMERCIAL QUALITY AND INSTALLATION TO BE WARRANTED BY PLUMBING CONTRACTOR.
5. PLUMBING CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
6. CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION AND MAKE FINAL CONNECTIONS TO ALL FIXTURES AND EQUIPMENTS.
7. DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO THE DIMENSIONED DRAWINGS OF THE ARCHITECT OR OTHERS.
8. CONTRACTOR SHALL CONTACT ALL APPROPRIATE UTILITY PROVIDERS TO VERIFY EXACT LOCATION OF EXISTING UTILITIES AND ROUTING OF NEW UTILITIES. UTILITY LOCATIONS SHOWN ARE SUBJECT TO THE REVIEW AND APPROVAL OF THE LOCAL UTILITY COMPANIES AND SHALL BE BID APPROPRIATELY. CONTRACTOR SHALL COORDINATE WITH AND PAY FEES AND ASSOCIATED COSTS TO THE LOCAL UTILITY COMPANY TO PROVIDE APPROPRIATE SERVICES TO THE PROJECT.

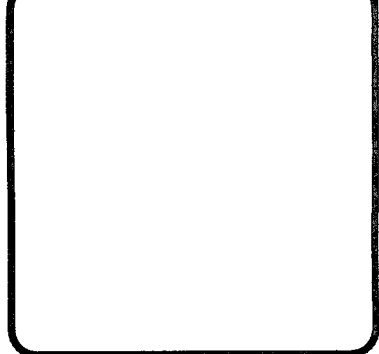
1. THE PLUMBING CONTRACTOR SHALL SECURE ALL PERMITS AND PAY ALL REQUIRED FEE OF HIS PORTION OF THE WORK.
 2. THE CONTRACTOR SHALL INSTALL THE SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODE.
 3. IF THE PLUMBING CONTRACTOR WISHES TO SUBSTITUTE FIXTURES, TRIM, PIPING, OR DRAWING, HE MUST SUBMIT SHOP DRAWINGS OR CUT SHEETS FOR ARCHITECT AND/OR OWNER'S APPROVAL.
 4. ALL PIPING SYSTEMS SHALL BE INSTALLED BY WORKMAN SKILLED IN THIS TRADE AND SHALL BE PROPERLY SUPPORTED HORIZONTALLY AND VERTICALLY.
 5. ALL WORK SHALL BE SUBJECT TO ARCHITECTS, AND/OR THE ENGINEERS INSPECTION, AND ANY FAULTY WORK, BROKEN FIXTURES, LEAKING PIPES, ETC., SHALL BE REPAIRED OR REPLACED AT THE PLUMBING CONTRACTORS EXPENSE.
 6. THE PLUMBING CONTRACTOR SHALL REMOVE ALL DEBRIS RESULTING FROM THEIR WORK. THEY SHALL ALSO CLEAN ALL FIXTURES AND EQUIPMENT UPON COMPLETION OF HIS WORK AND PRIOR TO FINAL INSPECTION BY THE ARCHITECT AND/OR ENGINEER.
 7. THE PLUMBING CONTRACTOR SHALL CLOSELY COORDINATE THEIR WORK WITH THE OTHER TRADES TO AVOID CONFLICTS OR OBSTRUCTIONS AND SHALL NOTIFY THE ARCHITECT AND/OR ENGINEER OF ANY CONFLICTS.
 8. ALL HOSE BIBS SHALL BE EQUIPPED WITH VACUUM BREAKERS.
 9. PROVIDE AND INSTALL 1/2" FIBERGLASS INSULATION IN ALL HOT WATER AND COLD WATER PIPING.
 10. THE DIMENSIONS, OR ROUGH-IN DIMENSIONS INDICATED SHALL BE VERIFIED BY CONTRACTOR AND ADJUSTED IF REQUIRED BY EQUIPMENT, AND/OR FIELD CONDITIONS.
 11. SANITARY SEWER SHALL BE LAID AT MIN. SLOPE OF 1/8" PER FOOT SLOPE.
 12. INSULATE ALL EXPOSED PIPING UNDER LAVATORY WITH TRUEBRO INC. HANILAV GUARD INSULATION KIT. INSTALL LAVATORY PER HANDICAPPED REQUIREMENT.
- PIPING SPECIFICATIONS:
HOT AND COLD WATER: TYPE "L" COPPER WITH WROUGHT COPPER FITTING AND SILVABRITE.
TYPE "K" COPPER WITH NO JOINTS.
SANITARY WASTE AND VENTS: SERVICE WEIGHT CAST IRON COMPRESSION JOINTS.

1. THE PLUMBING CONTRACTOR SHALL SECURE ALL PERMITS AND PAY ALL REQUIRED FEE FROM HIS/HER PORTION OF WORK.
 2. THE CONTRACTOR SHALL INSTALL THE SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES.
 3. IF THE PLUMBING CONTRACTOR WISHES TO SUBSTITUTE FIXTURES, TRIM, PIPING OR DRAWING, HE/SHE MUST SUBMIT SHOP DRAWINGS OR CUT SHEETS FOR ARCHITECT AND OR OWNER'S MANUAL.
 4. ALL PIPING SYSTEMS SHALL BE INSTALLED BY WORKMAN SKILLED IN THE TRADE AND SHALL BE PROPERLY SUPPORTED HORIZONTALLY AND VERTICALLY.
 5. ALL WORK SHALL BE SUBJECT TO ARCHITECT OR ENGINEERS INSPECTIONS, AND ANY FAULTY WORK, BROKEN FIXTURES, LEAKING PIPES, ETC., SHALL BE REPAIRED OR REPLACED AT CONTRACTORS EXPENSE.
 6. THE PLUMBING CONTRACTOR SHALL REMOVE ALL DEBRIS RESULTING FROM THEIR WORK. THEY SHALL CLEAN ALL FIXTURES AND EQUIPMENT UPON COMPLETION OF HIS/ER WORK AND PRIOR TO FINAL INSPECTION BY THE ARCHITECT AND OR ENGINEER.
 7. THE PLUMBING CONTRACTOR SHALL CLOSELY COORDINATE THEIR WORK WITH OTHER TRADES TO AVOID CONFLICTS OR OBSTRUCTIONS AND SHALL NOTIFY THE ARCHITECT AND/OR ENGINEER OF ANY CONFLICTS.
 8. ALL HOSE BIBS SHALL BE EQUIPPED WITH VACUUM BREAKERS.
 9. PROVIDE AND INSTALL FIBERGLAS INSULATION ON ALL HOT & COLD WATER PIPING.
 10. THE DIMENSIONS OR ROUGH-IN DIMENSIONS INDICATED, SHALL BE VERIFIED BY CONTRACTOR AND ADJUSTED IF REQUIRED BY EQUIPMENT AND OR FIELD CONDITIONS.
 11. SANITARY SEWER SHALL BE LAID AT SLOPE OF 1/8" PER FOOT MINIMUM..
 12. INSULATE ALL PIPING UNDER LAVATORY WITH TRUEBRO INC. HANILAV GUARD INSULATION KIT. INSTALL LAVATORY PER ADA REQUIREMENTS.
- PIPING SPECIFICATIONS:
HOT AND COLD WATER: TYPE "L" COPPER WITH WROUGHT COPPER FITTINGS AND SILVABRITE.
TYPE "K" COPPER WITH NO JOINTS
SANITARY WASTE AND VENTS, SERVICE WEIGHT CAST IRON COMPRESSION JOINTS.

REVISIONS	
No.	DATE DESCRIPTION
1	08-21-19 REV PER C.O.P. REVIEW
2	
3	
4	

THIS DRAWING IS PROPERTY OF CLAY ASSOCIATES AND IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT WRITTEN PERMISSION FROM CLAY ASSOCIATES

CONTRACTOR IS RESPONSIBLE FOR ANY DISCREPANCY WITHIN THE PLANS & ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR ADJUSTMENT OR VERIFICATION



CLAY ASSOCIATES INC.

2215 N. ALLEN GENOA
PASADENA TEXAS

**ALLEN GENOA SHOPPING PLAZA
PLUMBING FLOOR PLAN**

2215 N. ALLEN GENOA
PASADENA TEXAS

DATE: 07-16-19
CHECKED BY:
DESIGNED BY:
SCALE: 3/4" = 1'-0"
JOB No: CAE033006C
FILE:

DESIGN LEGEND

- TC:XXX.XX — TC: (TOP OF CURB)
- FL:XXX.XX — FL: (FLOW LINE)
- NG:XXX.XX — NG: (NATURAL GROUND)
- TP:XXX.XX — TP: (TOP OF PAVEMENT)
- FP:XXX.XX — FP: (FLOWLINE SWALE)
- FE: (FINISHED ELEVATION)

PAVING SPECIFICATIONS

TECHNICAL STANDARDS

- 8" AND/OR 5" AS INDICATED ON PLANS, THICK REINFORCED POURED IN PLACE CONCRETE PAVING SURFACE WITH LONGITUDINAL COLD KEY JOINTS 20' O.C. MAX. W/LATERAL PRESSED CONTROL JOINTS 20.5' O.C. MAX. OVER 95% STANDARD PROCTOR COMPACTED 6" SUBSOIL BASE OR AS RECOMMENDED BY SOIL ENGINEER. ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI MINIMUM AT 28 DAYS. ALL CONCRETE SHALL BE PRODUCED WITH A MINIMUM CEMENT CONTENT OF 520 LBS. PER CUBIC YARD (5.5 U.S. BAGS). ALL CONCRETE SHALL BE PRODUCED WITH AN ENTRAINED AIR CONTENT OF 4% BY VOLUME. ALL CONCRETE SHALL HAVE A MAXIMUM WATER/CEMENT RATIO OF 0.53. (6.0 GAL./BAWG.). THE MAXIMUM ALLOWABLE CONCRETE SLUMP SHALL BE 4 INCHES. PARKING AND DRIVE AREAS TO BE REINFORCED WITH #4 BARS AT 16" O.C. EACH DIRECTION. EXPANSION JOINTS SHALL BE PLACED AT A MAXIMUM DISTANCE OF 40'-0" O.C. PLACE NO. 4 REBARS AT 12" O.C. FOR 8" PAVEMENT INDICATED BY PLANS. SAME FOR PAVEMENT OVER TANKS.
- OWNER RESERVES THE RIGHT TO REQUEST A COMPACTION TEST AND/OR A CORE SAMPLE. IF TEST PROVE CORRECT, PER ABOVE REFERENCED SPECIFICATIONS, TEST WILL BE AT THE EXPENSE OF THE OWNER. OTHERWISE, CONCRETE CONTRACTOR SHALL BE CHARGED FOR TEST AND BE LIABLE FOR ANY AND/OR REPLACEMENT OF THE PAVING AREA.
- CONCRETE WALKS TO CONSIST OF 4 INCHES OF 3000 PSI CONCRETE REINFORCED WITH #6 10/10 W/M OVER 2" SAND LEVELING BED (REFER TO NOTES ON SUBGRADE PREPARATION).
- CONCRETE WALK TOOLED CONTROL JOINTS TO OCCUR AT 5'-0" O.C.
- BACKFILL OR SUBGRADE BELOW ALL PAVING SHALL CONSIST OF 6" COMPACTED SUBGRADE THAT HAS BEEN STABILIZED WITH A MINIMUM OF 8% BY VOLUME OF HYDRATED LIME (TMD ITEM 260) THOROUGHLY MIXED AND BLENDED. THIS STABILIZED SUBGRADE SHALL BE COMPACTED TO A MINIMUM OF 95% OF ASTM D-1557 NEAR OPTIMUM MOISTURE CONTENT.

* THIS INFORMATION IS BASED ON GRAPHICAL PLOTTING ONLY. WE DO NOT ASSUME RESPONSIBILITY FOR EXACT DETERMINATION.

DETENTION SUMMARY

1. OVERALL ACREAGE	= 2.3279 ACRES
TRACT I - 70,010 SF / 1.6072 ACRES	
TRACT II - 31,395 SF / 0.7207 ACRES	
(PIPELINE EASEMENT - 6,914.38 SF)	= CANNOT DEVELOP
(UNDEVELOPED STRIP - 11,419.90 SF)	= CANNOT DEVELOP
"NOT FEASIBLE TO DEVELOP" - "CUT OFF BY P.L. EASEMENT"	
(REMAINDER TRACT II - TO BE DEVELOPED)	= 13,080.69 SF
	= 0.2998 ACRES
2. THIS PROJECT	
TRACT I - 1.6072 ACRES (70,010.00 SF)	= 1.6072 ACRES
TRACT II - 0.2998 ACRES (13,080.69 SF)	= 0.2998 ACRES
3. Remainder of Site - Undeveloped	= 0.4209 ACRES
4. GRANDFATHER IMPERVIOUS AREA	= 18,534.28 SF
= 0.42 ACRES	
5. DETENTION RATE (PER City of Pasadena)	= 0.65 AC-FT/AC
6. DETENTION STORAGE VOLUME REQUIRED	= 1.2816 AC-FT
7. DETENTION STORAGE VOLUME PROVIDED	= 1.2897 AC-FT
8. MAXIMUM DESIGN WATER SURFACE ELEVATION	= 29.14
9. MAXIMUM OUTFALL RATE ALLOWED	= 2.32 CFS
10. MAXIMUM OUTFALL RATE PROVIDED W/ RESTRICTION	= 1.25 GPM
11. RESTRICTOR PIPE SIZE	= 6"

GRADING NOTES:

- STRIP AND REMOVE ALL SURFACE ORGANIC, TOPSOIL AND UNSUITABLE MATERIALS FROM ALL BUILDING AND PAVING AREAS. TREE STUMPS INCLUDING THE ROOT SYSTEM SHOULD BE REMOVED.
- ESTABLISH POSITIVE SITE DRAINAGE. INSTALL STORM DRAINAGE STRUCTURES IF REQUIRED.
- PROOF ROLL THE SUBGRADE TO DETECT ANY WEAK, SOFT, OR PUMPING AREAS. TREAT THESE AREAS WITH DRYING OR STABILIZING AGENTS AS NECESSARY OR REMOVE AND REPLACE THEM WITH A SUITABLE FILL MATERIAL.
- COMPACT THE SUBGRADE TO A MINIMUM OF NINETY FIVE (95) PERCENT OF ITS MAX. DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR COMPACTION TEST (ASTM D 698).
- ADDITIONAL FILL MATERIAL WITHIN THE BUILDING AREA SHOULD BE A SILTY OR SANDY CLAY HAVING A PLASTICITY INDEX (PI) OF TEN (10) TO TWENTY (20) AND A LIQUID LIMIT OF 28 OR MORE. FILL MATERIALS SHOULD BE PLACED IN SIX (6) TO EIGHT (8) INCH LIFTES AND COMPACTED AT OPTIMUM MOISTURE CONTENT TO NINETY-FIVE (95) PERCENT OF THEIR MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR COMPACTION TEST.
- DICAMATED SOIL WILL BE REMOVED FROM THE SITE SO AS NOT TO BE ADDED TO EXISTING SITE GROUND ELEVATIONS. IN ADDITION EXISTING SITE GROUND DRAINAGE PATTERNS WILL NOT BE CHANGED BY NEW CONSTRUCTION. NEW CATCH BASINS WILL BE SET SO AS TO PICK UP EXISTING AND NEW DRAINAGE AND CARRY IT TO THE FRONT STREET.
- SIDE YARDS WILL BE FINAL GRADED SO THAT A SWALE EXISTS TO COLLECT WATER AWAY FROM THE FOUNDATION AND AWAY FROM THE PROPERTY LINE. CONTRACTOR WILL SURVEY ENTIRE SITE AND MAINTAIN RECORDS OF SAME TO SHOW THAT EXISTING ELEVATION DO NOT CHANGE.

BENCH MARK DATA:

- PROJECT BENCH ELEVATIONS ARE REFERENCE TO RM 030230 BEING A BRASS DISK STAMPED 030230 WITH EL. 28.32 NAV038,2001 ADJUSTMENT
- ALL ELEVATIONS EXPRESSED HEREON ARE BASED RM 030230 BY R.P.L.S. DON TED WALKER SURVEY DATED 2/28/18 JOB. NO. 18-109 ELEV. FROM HCFCD RM BRASS DISK STAMPED 030230 FROM THE INTERSECTION OF SOUTH RICHEY STREET AND MARTINVILLE DRIVE. TRAVEL SOUTH ON MARTINVILLE TO DEAD END AND VEER TO THE RIGHT WHICH IS LOCATED ON THE MOST SOUTHEASTERLY END OF THE BRIDGE, IN THE CENTER OF THE SIDEWALK.
- FLOOD PLAIN DATA: THIS TRACT LIES IN ZONE "X" AREA OUTSIDE 500 YEAR FLOOD PLAN FLOOD ZONE PER FEMA FLOOD INSURANCE RATE MAP (FIRM) MAP No. 48020100915 JUNE , 09 2014.

MEETS AND BOUNDS SURVEY

BEING A TRACT OR PARCEL OF LAND IN THE J.H. BURNETT SURVEY, ABSTRACT NO. 1142 HARRIS COUNTY TEXAS AND BEING SO CALLED 21.15 ACRES CONV. TO AXEL PETERSON BY GEORGE S. DURANT, BEING OUT OF THE J.H. BURNETT SURVEY. DEED RECORDS OF HARRIS COUNTY, IN VOLUME 207, PG. 47 OF H.C. DEED RECORDS. DATED MAY 10, 2006. OWNER BENITO VALDEZ.

ONE-CALL NOTIFICATION SYSTEM
CALL BEFORE YOU DIG!!!
OR
NEW STATEWIDE NUMBER OUTSIDE HOUSTON

UNDERGROUND CONNECTION - DOWNSPOUT

SCUPPER CONNECTION - DOWNSPOUT DETAILS ATTACHED

Roof Storm Drain(s) - Scuppers/Gutter to Downspouts Connection Details are attached to Construction Documents Binder - Front, 8 1/2 x 11 Packet - Architectural Details - Gutters & Downspouts /Scuppers

CONTRACTOR TO INSTALL SOLID SOD GRASS ON ALL SLOPED SIDES AND BOTTOM OF POND AS REQUIRED BY CITY OF PASADENA. (TYPICAL ALL SIDES)

CONTRACTOR TO INSTALL: -SOD AS PHASE II BMP STABILIZATION (SEEDING METHOD) ON EITHER SIDE OF EMERGENCY OVERFLOW, PER CITY OF PASADENA STD.

CONTRACTOR TO INSTALL SOLID SOD GRASS ON ALL AREAS WHERE EXISTING DRIVEWAY TO BE REMOVED AND RE-CURBED AS REQUIRED BY CITY OF PASADENA. (TYPICAL ALL SIDES)

CONTRACTOR TO INSTALL SOLID SOD GRASS ON ALL AREAS WHERE EXISTING DRIVEWAY TO BE REMOVED AS REQUIRED BY CITY OF PASADENA. (TYPICAL ALL SIDES)

PROPOSED CONDITION - STORM DRAINAGE

UNDEVELOPED CONDITIONS (2yr):

TOTAL AREA	= 1.9707 ACRES	TOTAL AREA	= 83,070.69 SF
C	= 0.35 (UNDEVELOPED GRASSY)		
T _c	= 10 A ^{0.1761} + 15 (IN MINS.) = 25.65 MINS.		
I _{2YR}	= b/(d + T _c) ⁶ (USING RATIONAL FORMULA FOR HARRIS COUNTY 2 YRS. STORM)		
I _{2YR}	= 75.01/(16.2 + 25.65) 0.8315 = 3.36 in/hr		
Q _{2YR}	= CIA = 0.35 x 3.36 x 1.9718 = 2.32 CFS		

DEVELOPED CONDITIONS (2yr): 0.2318 INCREASED IMPERVIOUS COVER

TOTAL AREA	= 1.9718 ACRES	TOTAL AREA	= 85,891.61 SF
C	= [(0.35 x 0.3181) + (0.90 x 1.2889)]/1.6072 = 0.79		
T _c	= 10 A ^{0.1761} + 15 (IN MINS.) = 17.01 MINS.		
I _{2YR}	= b/(d + T _c) ⁶ (USING RATIONAL FORMULA FOR HARRIS COUNTY STANDARD 2 YRS. STORM)		
I _{2YR}	= 75.01/(16.2 + 17.01) 0.8315		
Q _{2YR}	= CIA = 0.79 x 4.07 x 1.6072 = 5.17 CFS		

DEVELOPED CONDITIONS (10yr):

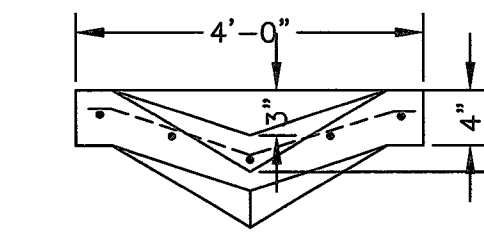
TOTAL AREA	= 1.9718 ACRES	TOTAL AREA	= 85,891.61 SF
C	= [(0.35 x 0.3181) + (0.90 x 1.2889)]/1.6072 = 0.79		
T _c	= 10 A ^{0.1761} + 15 (IN MINS.) = 17.01 MINS.		
I _{10YR}	= b/(d + T _c) ⁶ (USING RATIONAL FORMULA FOR HARRIS COUNTY STANDARD 10 YRS. STORM)		
I _{10YR}	= 78/(16.2 + 17.01) 0.747 = 5.70 in/hr		
Q _{10YR}	= CIA = 0.79 x 5.70 x 1.6072 = 7.24 CFS		

DEVELOPED CONDITION (100yr)

TOTAL AREA	= 1.9718 ACRES	TOTAL AREA	= 85,891.61 SF
C	= [(0.35 x 0.3181) + (0.90 x 1.2889)]/1.6072 = 0.79		
T _c	= 10 A ^{0.1761} + 15 (IN MINS.) = 17.01 MINS.		
I _{100YR}	= b/(T _c + d)		
I _{100YR}	= 92/(10.95 + 8.0) 0.8315 = 11.26 in/hr		
Q _{100YR}	= CIA = 0.79 x 11.26 x 1.6072 = 14.30 CFS		

H.C. NOTE:

In areas where the project design incorporates fill adjacent to neighboring landowners, the Contractor shall implement grading and/or perimeter runoff catchment devices (e.g. - perimeter ditches) during construction to ensure that adjacent parcels bordering the project site do not experience interim drainage flows that exceed pre-development conditions for storm events up to and including the current storm drainage criteria at time of permit, or carry sediment generated as part of the construction activities. Where applicable, these practices are in addition to the standard Storm Water Pollution Prevention design and shall include additional ditches redirecting site drainage or temporary piping.

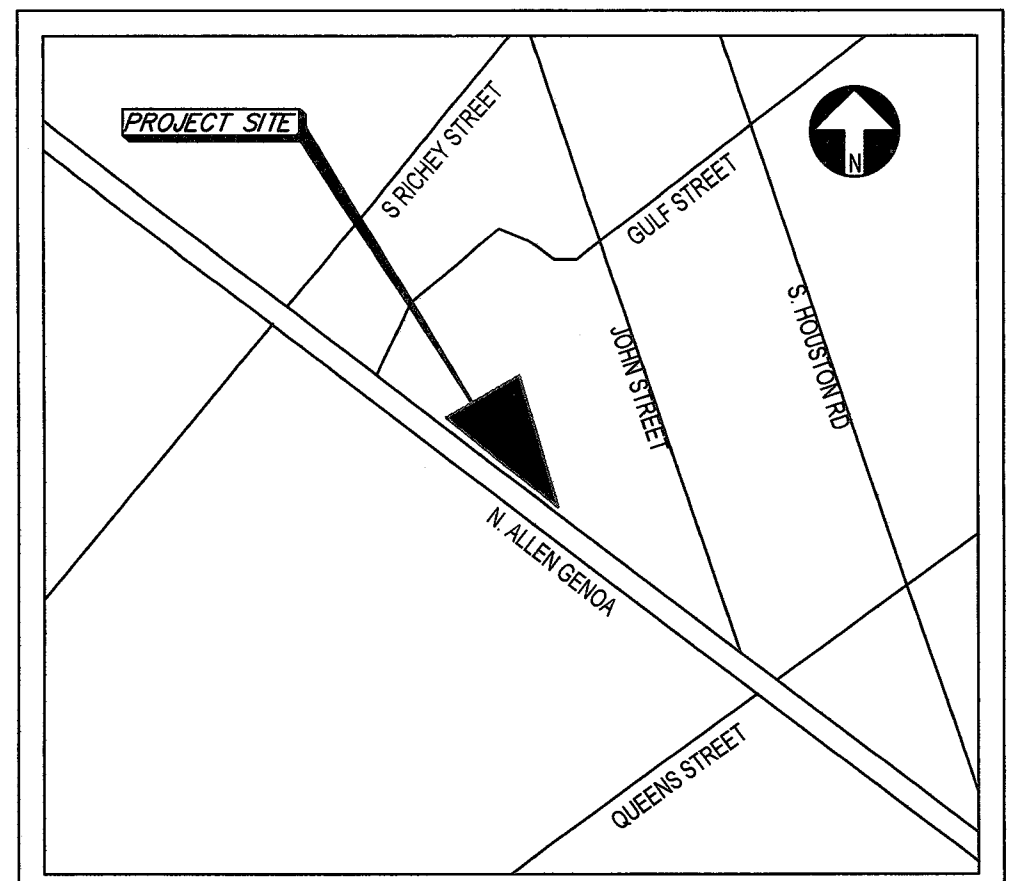


CONCRETE PILOT CHANNEL

MAINTENANCE OF DETENTION FACILITY ON SITE, IS RESPONSIBILITY OF OWNER AND OWNER WILL CREATE A LOG SHEET WITH DATES AND NOTED DETAILS OF CLEAN-UP TO MAINTAIN A CLEAN OUTFLOW OF DEBRIS FREE STORM WATER INTO PUBLIC SYSTEM (UNIT D-118-02-00)

NOTE: * RETURN TO NATURAL GROUND/ MATCH EXISTING ELEVATIONS* TYPICAL ALL SIDES OF NEIGHBORING PROPERTIES.

2215 ALLEN GENOA VICINITY MAP
KEY MAP NO. 501-P

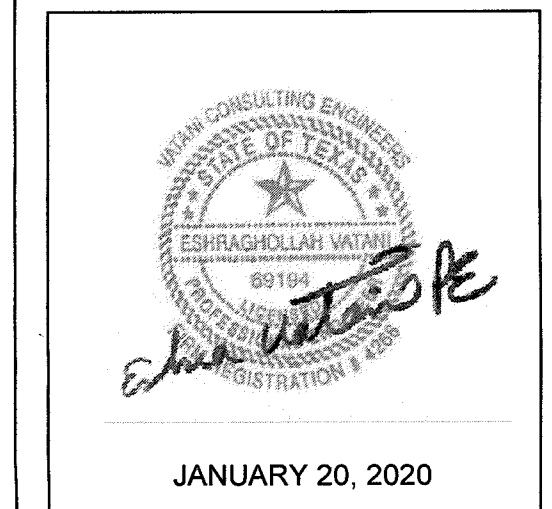


DRAWINGS ISSUED FOR:

03-25-19	RE-DESIGN SITE
03-26-19	PRELIMINARY
04-01-19	SUBMITAL DESIGN
05-04-19	SWALE REVISION
08-21-19	REV PER C.O.P. REVIEW
09-12-19	REV PER C.O.P. REVIEW
01-21-20	REV PER C.O.P. REVIEW

Issued for Construction

REVISIONS



JANUARY 20, 2020

"ALLEN GENOA" COMMERCIAL FACILITY
RETAIL LEASE SPACE
2215 ALLEN GENOA
PASADENA, TEXAS 77512
A PROJECT OF:
THOMAS NGUYEN

TRAFFIC CONTROL PLAN NOTES

- Contractor will provide and install traffic control devices in conformance with Part VI of the Texas Manual on Uniform Traffic Control Devices (TMUTCD - LATEST EDITION WITH REVISIONS) DURING CONSTRUCTION.
- No lanes shall be blocked during construction.

SPECIAL NOTES:

CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY HARRIS COUNTY, TEXAS FOR FLOOD PLAN MANAGEMENT PRIOR TO STARTING CONSTRUCTION. OWNER TO OBTAIN ALL PERMITS REQUIRED BY HARRIS COUNTY, TEXAS PRIOR TO STARTING CONSTRUCTION OF UTILITIES AND/OR CULVERTS WITHIN CITY OF HOUSTON'S ROAD RIGHTS-OF-WAY.

DRAINAGE NOTES:

CONTACT HARRIS COUNTY DRAINAGE DISTRICT 48 HOURS PRIOR TO THE COMMENCING CONSTRUCTION AND UPON COMPLETION FOR THE FINAL INSPECTION. BUILDING, FENCES OR OTHER STRUCTURES SHALL NOT BE ERRECTED WITHIN RIGHT-OF-WAY OR DRAINAGE EASEMENTS. THE DETENTION AND DRAINAGE FACILITIES ARE TO BE MAINTAINED BY THE PROPERTY OWNER. ALL DRAINAGE FACILITIES SHALL HAVE EROSION CONTROL ESTABLISHED UPON COMPLETION. CONTRACTOR TO PROVIDE THE DISTRICT WITH PROPOSED GRASS TYPE, APPLICATION RATE AND METHOD FOR APPROVAL PRIOR TO COMMENCING.

- City of Pasadena - Building Code(s)
- 2015 International Building Code.
 - 2015 International Energy Code.
 - 2015 International Fire Code
 - 2015 International Fire Code Ordinance
 - 2015 International Fuel and Gas Code.
 - 2015 International Residential Code.
 - 2015 Mechanical Code, with local amendments
 - 2017 National Electrical Code, Ordinance

GRADING & DRAINAGE PLAN
SCALE: 1"=30'-0"

DWG #
C-1

MAINTENANCE OF DETENTION FACILITY ON SITE, IS RESPONSIBILITY OF OWNER AND OWNER WILL CREATE A LOG SHEET WITH DATES AND NOTED DETAILS OF CLEAN-UP TO MAINTAIN A CLEAN OUTFLOW OF DEBRIS FREE STORM WATER INTO PUBLIC SYSTEM (UNIT D-118-02-00)

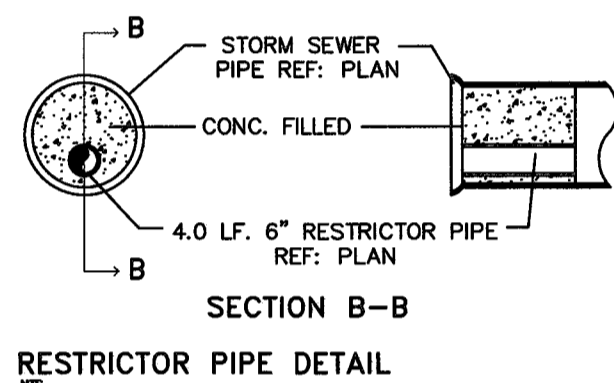
MEETS AND BOUNDS SURVEY

BEING A TRACT OR PARCEL OF LAND IN THE J.H. BURNETT SURVEY, ABSTRACT NO. 1142 ,HARRIS COUNTY TEXAS AND BEING SO CALLED 21.15 ACRES CONV. TO AXEL FETTERSON BY GEORGE S. DURANT, BEING OUT OF THE J.H. BURNETT SURVEY. DEED RECORDS OF HARRIS COUNTY, IN VOLUME 207, PG. 47 OF H.C. DEED RECORDS. DATED MAY 10, 2006. OWNER BENITO VALDEZ

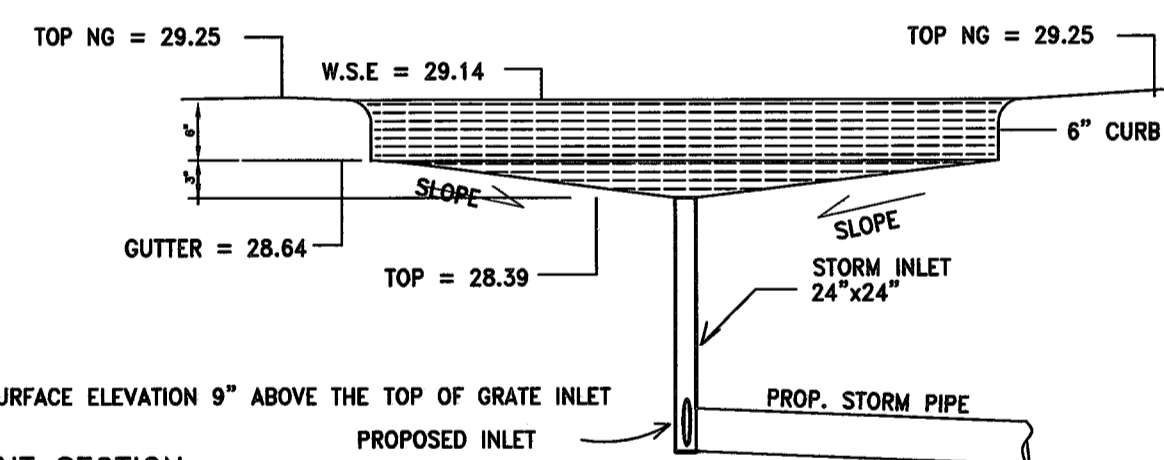
DRAINAGE NOTES:

CONTACT HARRIS COUNTY DRAINAGE DISTRICT 48 HOURS PRIOR TO THE COMMENCING CONSTRUCTION AND UPON COMPLETION FOR THE FINAL INSPECTION. BUILDING, FENCES OR OTHER STRUCTURES SHALL NOT BE ERRECTED WITHIN RIGHT-OF-WAY OR DRAINAGE EASEMENTS. THE DETENTION AND DRAINAGE FACILITIES ARE TO BE MAINTAINED BY THE PROPERTY OWNER. ALL DRAINAGE FACILITIES SHALL HAVE EROSION CONTROL ESTABLISHED UPON COMPLETION. CONTRACTOR TO PROVIDE THE DISTRICT WITH PROPOSED GRASS TYPE, APPLICATION RATE AND METHOD FOR APPROVAL PRIOR TO COMMENCING

ONE-CALL NOTIFICATION SYSTEM
CALL BEFORE YOU DIG!!!
811
(NEW STATEWIDE NUMBER OUTSIDE HOUSTON)



OUTFLOW ORIFICE SIZE CALCULATIONS:
UNDEVELOPED RATE OF DISCHARGE:
USE 6" DIA. RESTRICTOR PIPE:
 $Q = CA\sqrt{2gh} = 0.80 \times 0.196 \times \sqrt{2 \times 32.2 \times 6.36}$
 $= 3.17 \text{ CFS} > 2.32 \text{ CFS}$
MINIMUM ALLOWED 6" RESTRICTOR (OK)



CONCRETE PAVEMENT SECTION

DETENTION CALCULATIONS - PROPOSED DEVELOPMENT

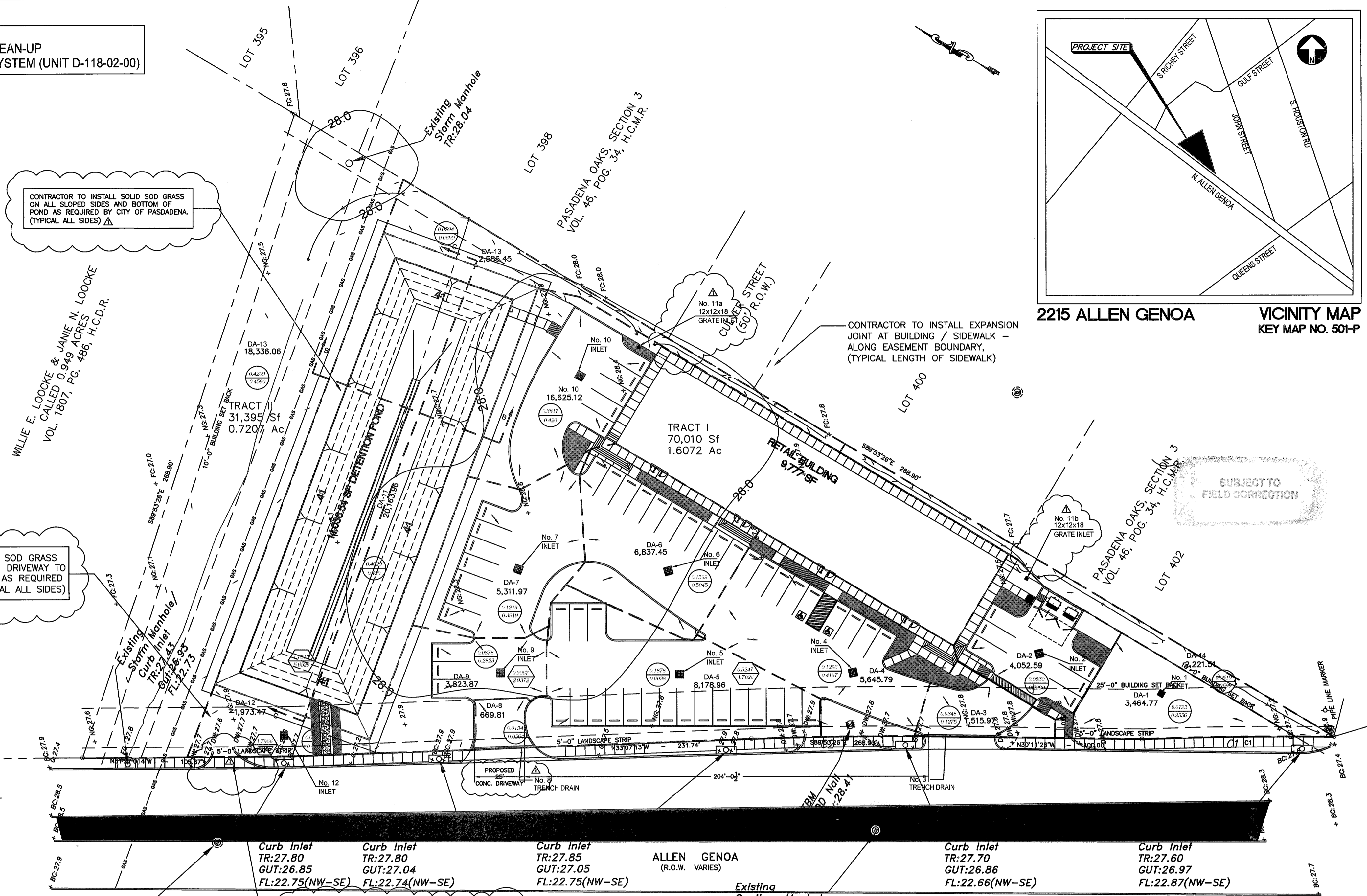
TOTAL - TRACT I	1.6072 ACRES	70,009.63 SF
PORTION - TRACT II	0.2998 ACRES	13,060.69 SF
TOTAL DEVELOPED AREA	1.907 ACRES	(Not Feasible to Develop - cut off by pipeline)
UNDEVELOPED AREA	0.4209 ACRES	
REQUIRED DETENTION RATE	0.65 AC/FT AC	
VOLUME OF DETENTION REQUIRED	1.2396 AC/FT	53,994.80 CU/FT
VOLUME IN PAVEMENT		
	$30,416.735 \text{ sf} \times .25/3 = 2,534.73 \text{ cu ft}$	
	$30,416.735 \text{ sf} \times .50 = 15,208.37 \text{ cu ft}$	
		17,743.09 cu ft
VOLUME IN DETENTION POND		
	$(14,036.54 - 2,591.84) \times 6/3 = 22,887.38 \text{ cu ft}$	
	$2,591.84 \times 6 = 15,549.22 \text{ cu ft}$	
		38,436.60 cu ft
VOLUME IN SYSTEM	56,179.69 cu ft	55,068.19 cu ft

VOLUME IN DETENTION POND

CONTRACTOR TO INSTALL SOLID SOD GRASS ON ALL SLOPED SIDES AND BOTTOM OF POND AS REQUIRED BY CITY OF PASADENA. (TYPICAL ALL SIDES)

CONTRACTOR TO INSTALL SOLID SOD GRASS ON ALL AREAS WHERE EXISTING DRIVEWAY TO BE REMOVED AND RE-CURBED AS REQUIRED BY CITY OF PASADENA. (TYPICAL ALL SIDES)

CONTRACTOR TO INSTALL SOLID SOD GRASS ON ALL AREAS WHERE EXISTING DRIVEWAY TO BE REMOVED AS REQUIRED BY CITY OF PASADENA. (TYPICAL ALL SIDES)



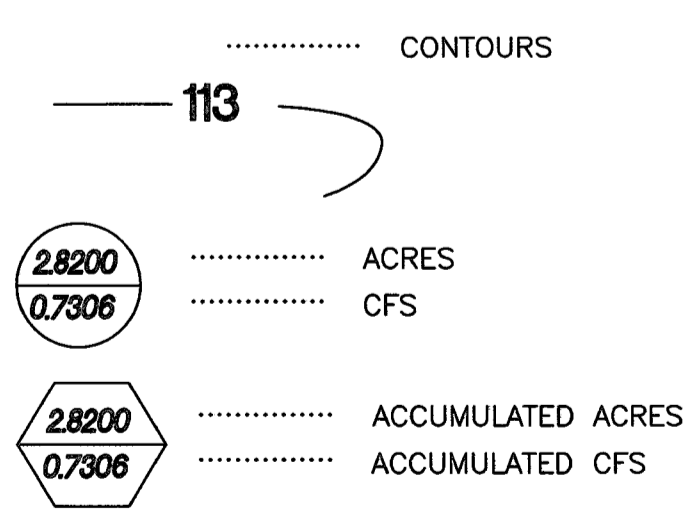
Internal Drainage System

PROJECT NAME	STORM SEWER RUNOFF	2-YEAR FREQUENCY	DATE												
JOB NUMBER	01330	9101 West Bellfort	02/20/2014												
INTENSITY (I=B/(D+C)*E)	TWO BARS STORM														
DRAINAGE AREA	ACRES (INDIV)	ACRES (CUM)	TC (INLET)	TC (SYSTEM)	B	D	E	I (IN/HR)	I (SYSTEM)	C	CA	SUM	Q (INLET)	Q (SYSTEM)	
DA-1	0.0795	0.0795	17.01	17.01	75.01	16.2	0.8315	4.07	4.07	0.79	0.06	0.06	0.2556	0.2556	
DA-2	0.0930	0.1725	17.01	17.01	75.01	16.2	0.8315	4.07	4.07	0.79	0.07	0.13	0.2990	0.5546	
DA-3	0.0348	0.0348	17.01	17.01	75.01	16.2	0.8315	4.07	4.07	0.9	0.03	0.16	0.1275	0.6821	
DA-4	0.1296	0.3369	17.01	17.01	75.01	16.2	0.8315	4.07	4.07	0.79	0.10	0.26	0.4167	1.0958	
DA-5	0.1878	0.5247	17.01	17.01	75.01	16.2	0.8315	4.07	4.07	0.79	0.15	0.41	0.6038	1.7026	
DA-6	0.1569	0.1569	17.01	17.01	75.01	16.2	0.8315	4.07	4.07	0.79	0.12	0.12	0.5045	0.5045	
DA-7	0.1219	0.2788	17.01	17.01	75.01	16.2	0.8315	4.07	4.07	0.79	0.10	0.22	0.3919	0.8964	
DA-8	0.0154	0.0154	17.01	17.01	75.01	16.2	0.8315	4.07	4.07	0.9	0.01	0.01	0.0564	0.0564	
DA-9	0.0878	0.9067	17.01	17.01	75.01	16.2	0.8315	4.07	4.07	0.79	0.07	0.71	0.2823	2.9372	
DA-10	0.3817	0.3817	17.01	17.01	75.01	16.2	0.8315	4.07	4.07	0.79	0.30	0.30	1.2273	1.2273	
DA-11	0.4629	1.7513	17.01	17.01	75.01	16.2	0.8315	4.07	4.07	0.79	0.37	1.38	1.4884	5.6529	
DA-12	0.0453	1.7966	17.01	17.01	75.01	16.2	0.8315	3.36	3.36	0.35	0.02	1.40	0.0533	5.7062	
TOTAL	1.7966													5.7062	

Outside Internal System

DA-13	0.0594	0.0594	17.01	17.01	75.01	16.2	0.8315	3.36	3.36	0.35	0.35	0.02	0.0699	0.0699
DA-14	0.0510	0.0510	17.01	17.01	75.01	16.2	0.8315	3.36	3.36	0.35	0.35	0.02	0.0599	0.0599
DA-15	0.4209	0.4209	17.01	17.01	75.01	16.2	0.8315	3.36	3.36	0.35	0.35	0.15	0.4950	0.4590
TOTAL	1.9707 ACRES - Post Development Run-Off													5.84 cfs
	1.9707 ACRES - Post Development Run-Off W/ Restriction													3.17 cfs

SITE LEGEND



DRAINAGE AREA PLAN
SCALE: 1"=30'-0"

VARVARE CONSULTING ENGINEERS, PLLC
5700 NW CENTRAL DR. STE 220
HOUSTON, TX 77049
PHONE: (713) 400-0005
FAX: (713) 956-2555
www.varvare.com

DESIGN & DEVELOPMENT CONSULTATION
C-2

DRAWINGS ISSUED FOR:

03-25-19	RE-DESIGN SITE
03-26-19	PRELIMINARY
04-02-19	SUBMITAL DESIGN
05-04-19	SWALE REVISION
08-21-19	REV PER C.O.P. REVIEW
09-12-19	REV PER C.O.P. REVIEW
01-21-20	REV PER C.O.P. REVIEW
	Issued for Construction

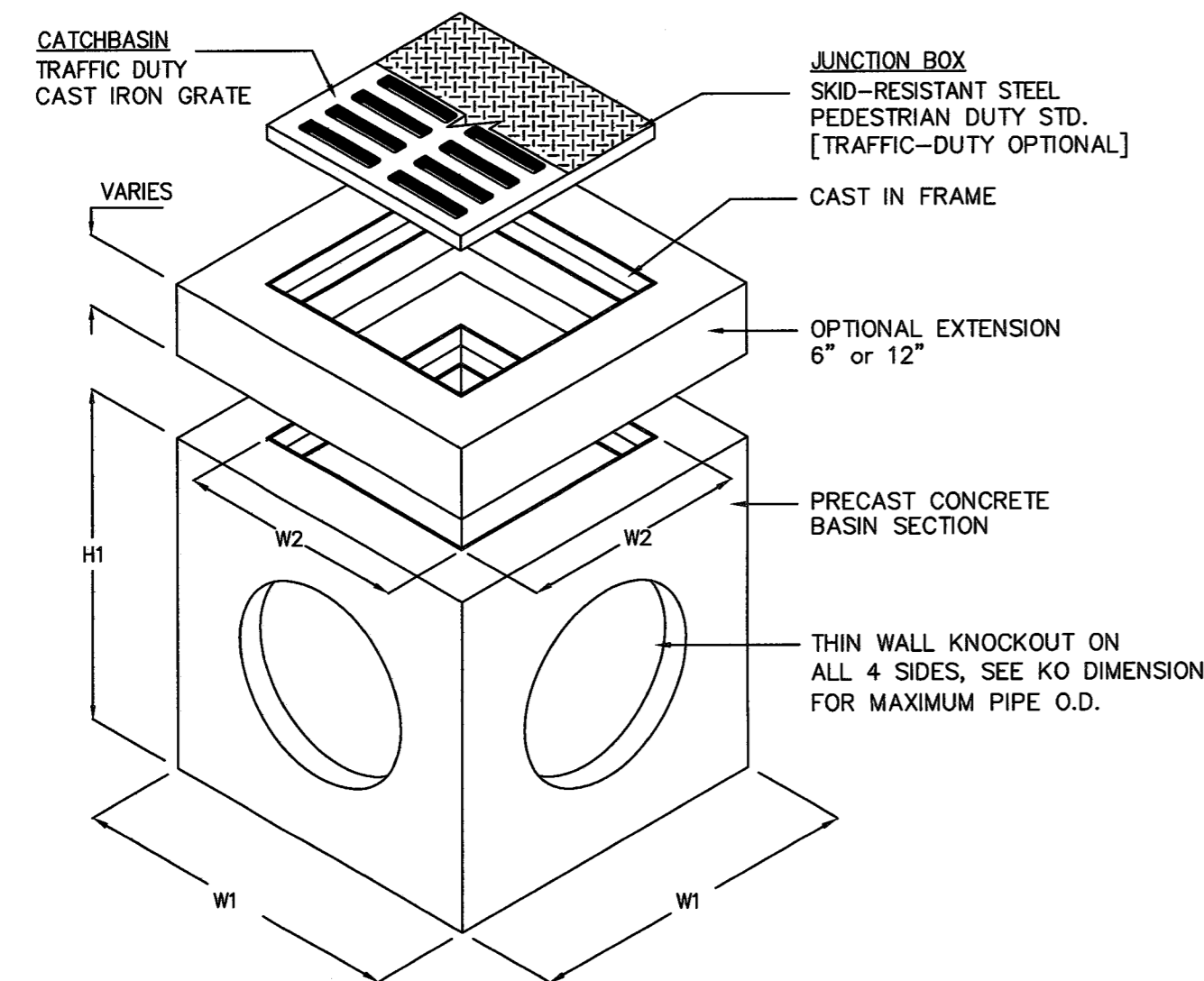
REVISIONS

STATE OF TEXAS
SURVEYOR
JANUARY 20, 2020

"ALLEN GENOA" COMMERCIAL FACILITY
RETAIL LEASE SPACE
2215 ALLEN GENOA
PASADENA, TEXAS 77512
A PROJECT OF:
THOMAS NGUYEN

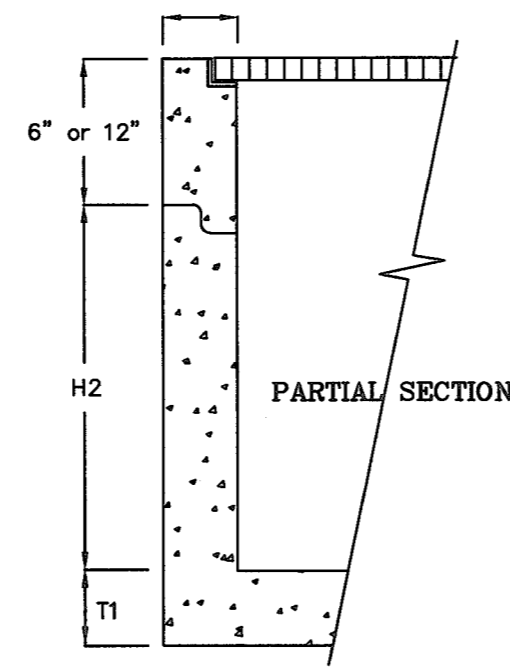
DRAWING TITLE
DRAINAGE AREA
SITE PLAN

DWG #
C-2



MODEL #	DIMENSIONS							GRAVE SIZE	WEIGHT
CATCH BASIN	JUNCTION BOX	W1	W2	H1	H2	T1	KO		LBS
CB12	JB12	15"	10"	21"	18"	2"	10"	12"x12"x1"	180
CB18	JB18	24"	18"	34"	30"	4"	15"	18"x18"x1"	1,000
CB20	JB20	26"	18"	34"	30"	4"	17"	20"x20"x1"	1,335
CB24	JB24	32"	22"	41"	36"	5"	22"	24"x24"x2"	2,245
CB27	JB27	37"	25"	42"	36"	6"	24"	27"x27"x2"	2,875
CB30	JB30	42"	30"	42"	36"	6"	30"	32"x32"x2"	3,675
CB36	JB36	48"	36"	54"	48"	6"	32"	38"x38"x2"	4,585

1. CB12 CATCHBASIN IS RATED FOR PEDESTRIAN LOADING. ALL OTHERS ARE TRAFFIC DUTY.
 2. ALL JUNCTION BOXES ARE STANDARD PEDESTRIAN DUTY OR OPTIONAL TRAFFIC DUTY.



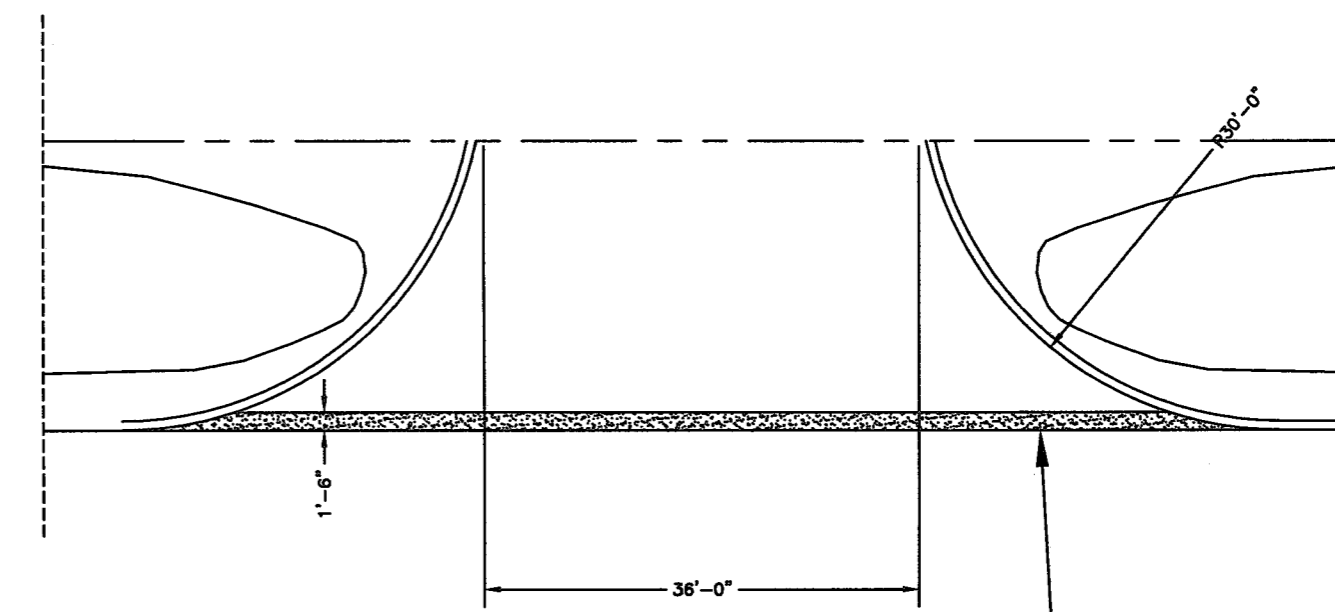
SPECIFICATIONS

CONCRETE: Class 1 concrete with of design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional riser to required depth.

REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

C.I. CASTINGS: Cast iron frames and grates are manufactured of gray cast iron conforming to ASTM A48-78 Class 30.

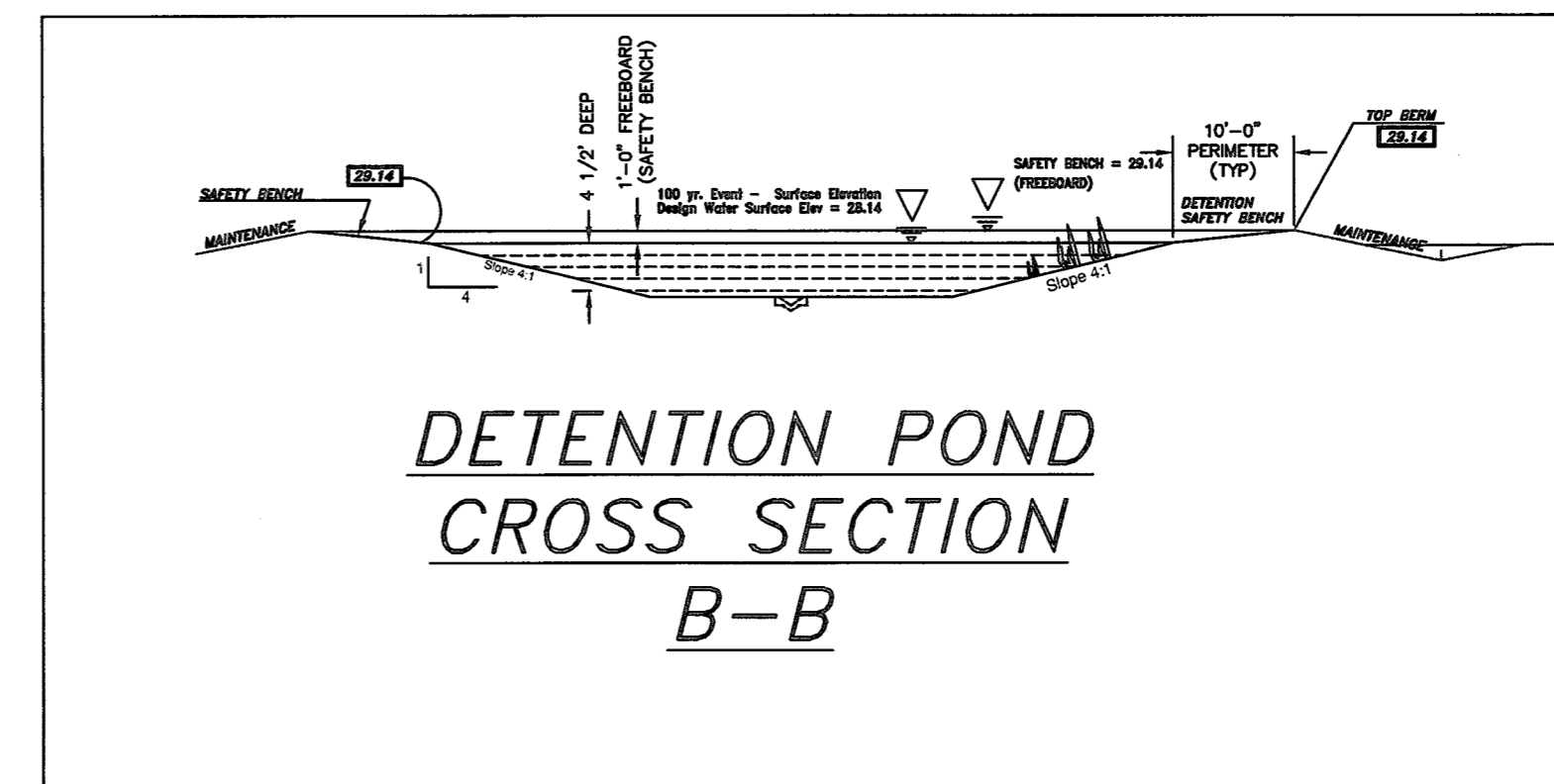
PRECAST CAST INLET
 (TO BE USED IN YARD AREA)



CONTRACTOR TO RECESS CONCRETE DRIVEWAY 1'-0" FROM EDGE OF EXISTING ASPHALT AND INSTALL ASPHALT TO MATCH EXISTING ASPHALT ROAD.

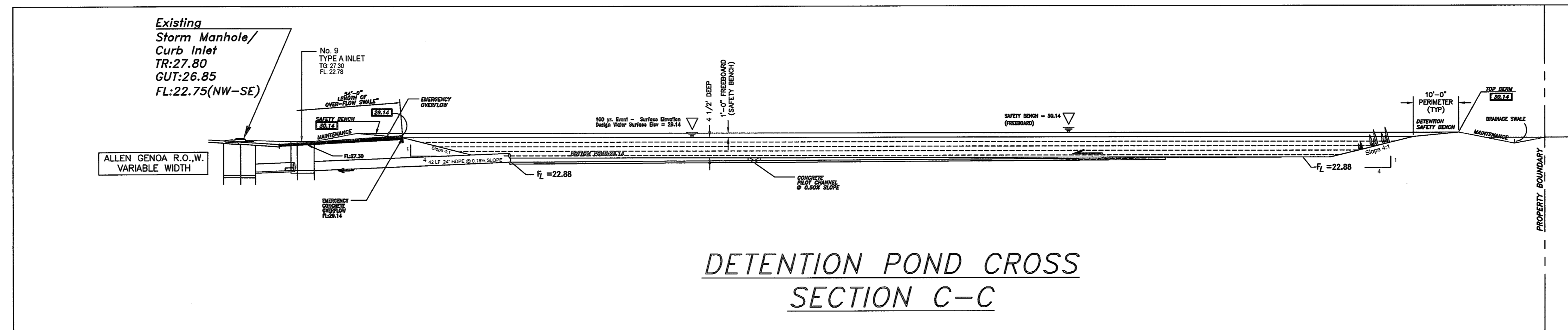
DRIVEWAY ENTRY DETAIL
 2X SCALE DETAIL

SUBJECT TO FIELD CORRECTION



DETENTION POND CROSS SECTION B-B

SCALE: 2X - SECTION DETAIL (1"=15'-0")-FOR CLARITY
 RE: C-2.0 (SCALE 1"=20'-0")



DETENTION POND CROSS SECTION C-C

SCALE: 2X - SECTION DETAIL (1"=15'-0")-FOR CLARITY
 RE: C-2.0 (SCALE 1"=20'-0")

VAVARI CONSULTING ENGINEERS, PLLC
 5705 HWY. 6300, SUITE 220
 HOUSTON, TX 77066
 T.B.P.E. FIRM # 4266
 PHONE (713) 400-0005
 WWW.VAVARI.COM

DESIGN & DEVELOPMENT CONSULTATION
 WWW.VAVARI.COM
 (409) 338-4805

DRAWINGS ISSUED FOR:

03-25-19	RE-DESIGN SITE
03-26-19	PRELIMINARY
08-29-14	SUBMITTAL
01-21-20	REV PER C.O.P. REVIEW

REVISIONS

VAVARI CONSULTING ENGINEERS, PLLC
 STATE OF TEXAS
 ENGINEER
 ESTHER KALLAN VAVARI
 09194
 JANUARY 20, 2020

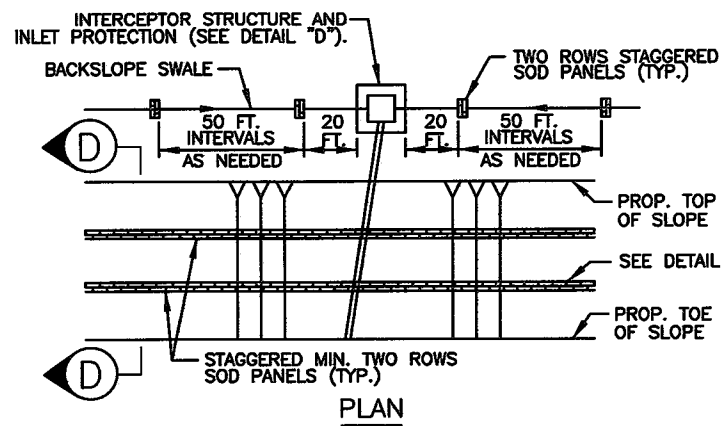
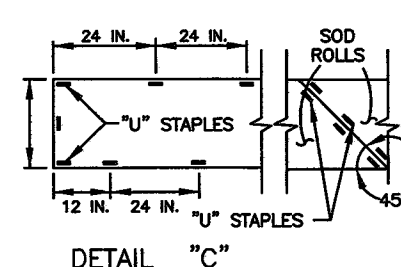
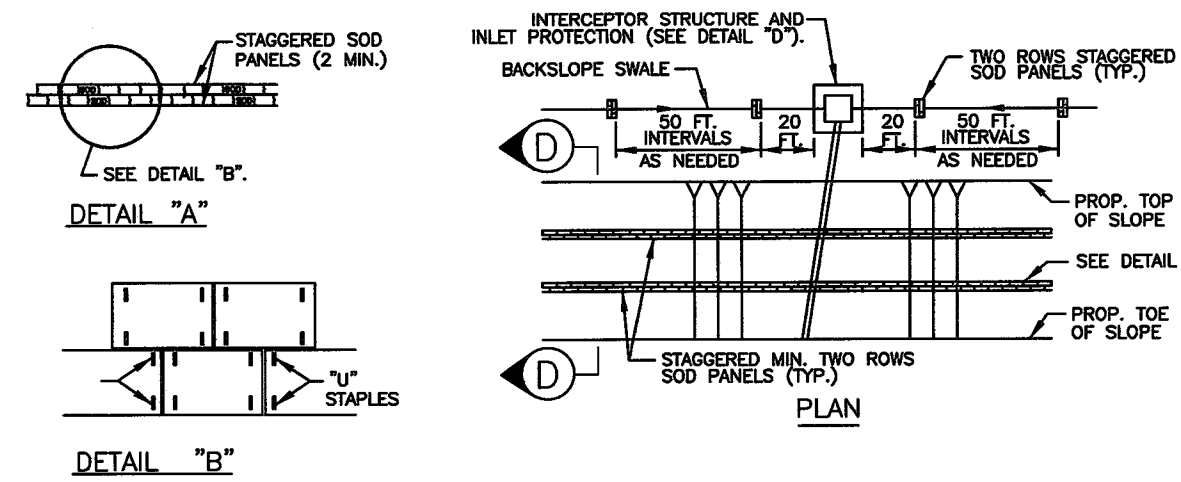
"ALLEN GENOA" COMMERCIAL FACILITY
 RETAIL LEASE SPACE
 2215 ALLEN GENOA
 PASADENA, TEXAS 77512
 A PROJECT OF:
THOMAS NGUYEN

DRAWING TITLE
DRAINAGE DETAILS & SECTIONS

DWG #
C-2.1

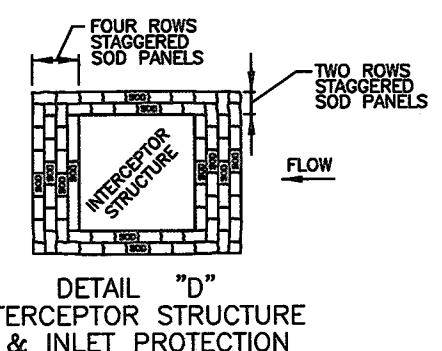
CROSS SECTION DETAILS
 SCALE: 1"=30'-0"

THIS DETAIL SHEET HAS BEEN PREPARED FOR USE ON HCFCD PROJECTS OR PROJECTS TO BE MAINTAINED BY THE HCFCD WHEN COMPLETED BY OTHERS. AN ENGINEER WHO INCORPORATES THE DETAILS ON THIS SHEET BECOMES RESPONSIBLE FOR ITS USE IN THE END PRODUCT IN ACCORDANCE WITH RULE §137.33 (b) AND (c) OF THE TEXAS STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS.

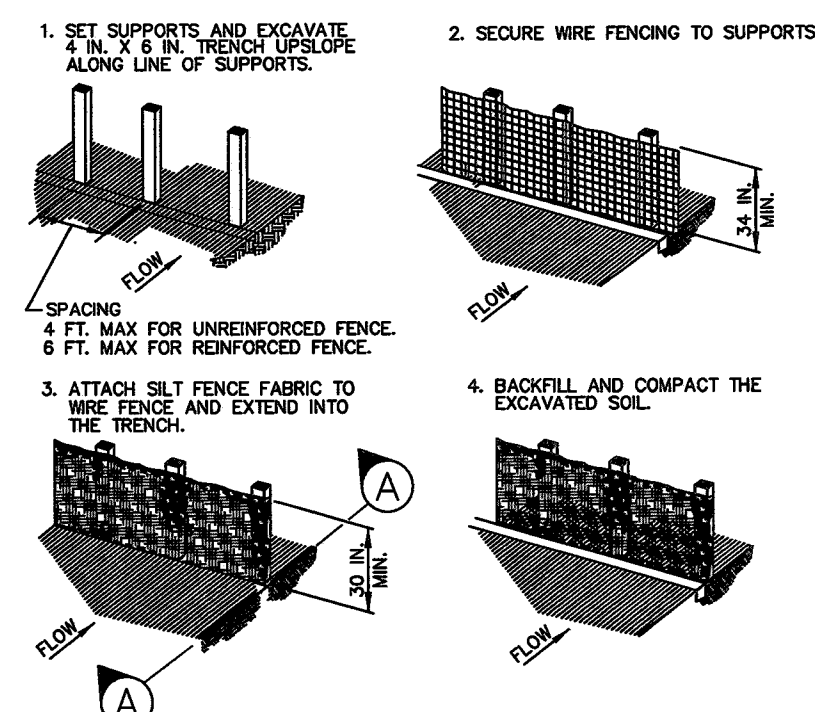


- NOTES:
- FOR SOD ROLLS, 24 INCHES WIDE, PLACE STAPLES ON 24 INCH CENTERS NEAR THE EDGES. STAGGER STAPLES ON OPPOSING SIDES. PLACE ADDITIONAL STAPLES IN CORNERS AT ENDS OF ROLL AND ONE IN MIDDLE AT BOTH ENDS OF ROLL.
 - PROVIDE STAPLES PER SPECIFICATION SECTION NO. 02922-SOD.
 - SOD ROLL AS SHOWN IN DETAIL "C" EQUIVALENT TO TWO ROWS OF SOD PANELS.

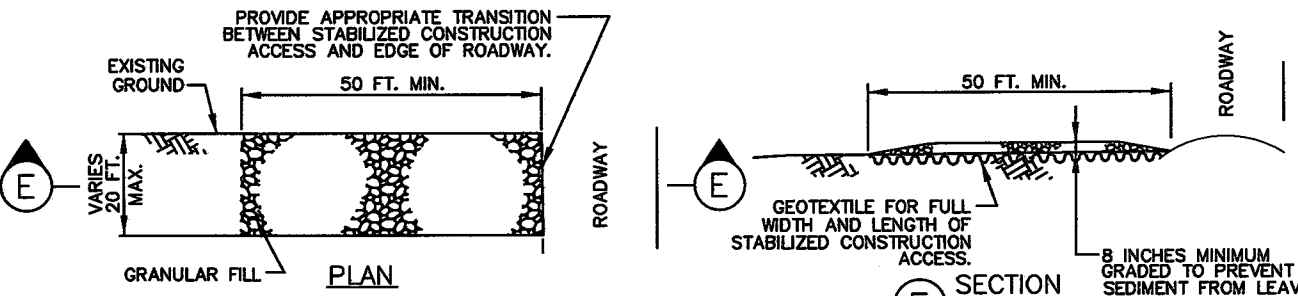
CONTRACTOR TO INSTALL SOLID SOD GRASS ON ALL SLOPED SIDES AND BOTTOM OF POND AS REQUIRED BY CITY OF PASADENA. (TYPICAL ALL SIDES)



SODDING

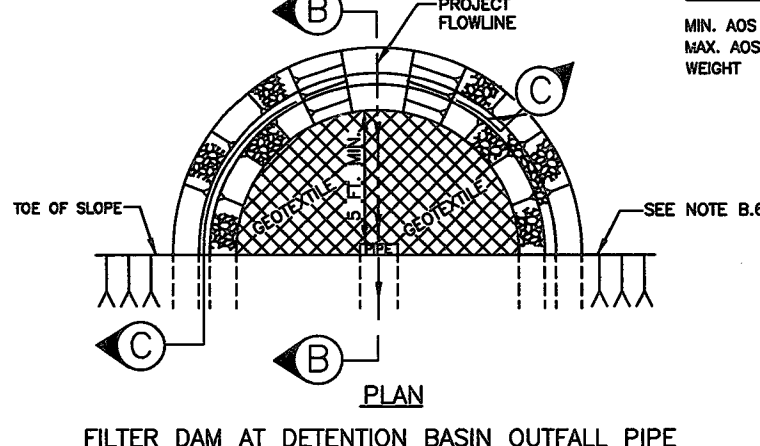
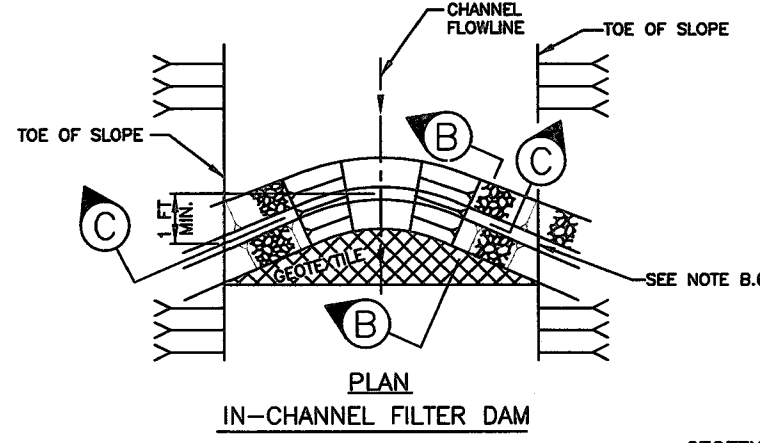


- CONSTRUCTION NOTES:
- SEE SPECIFICATION SECTION NO. 02361-SILT FENCES.
- SYMBOLS: RSF (Reinforced Silt Fence), SF (Silt Fence).

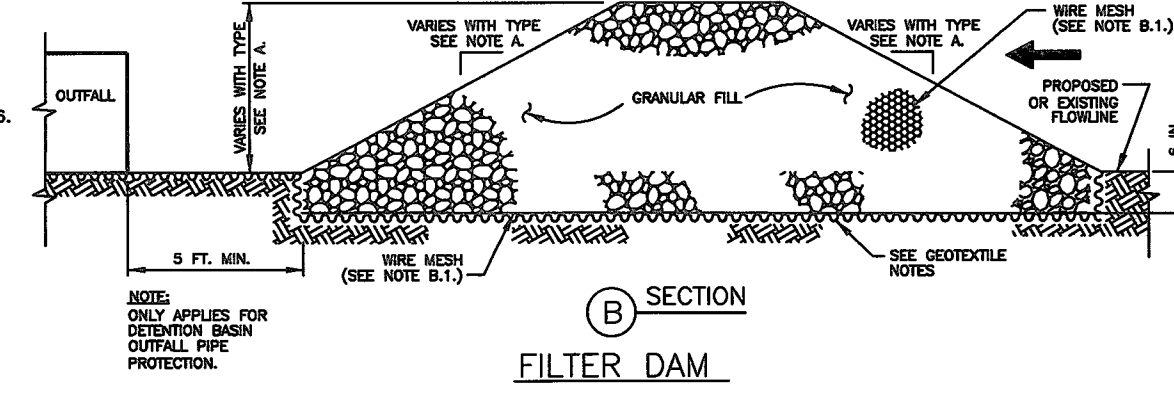


- CONSTRUCTION NOTES:
- SEE SPECIFICATION SECTION NO. 02365-STABILIZED CONSTRUCTION ACCESS.
- SYMBOLS: SCA (Stabilized Construction Access).

- FILTER DAM NOTES:
- TYPES OF FILTER DAMS
- TYPE 1 (NON-REINFORCED)
 - HEIGHT - 18-24 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
 - TOP WIDTH - 2 FEET (MINIMUM)
 - SLOPES - 2:1 (MAXIMUM)
 - TYPE 2 (REINFORCED)
 - HEIGHT - 18-36 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
 - TOP WIDTH - 2 FEET (MINIMUM)
 - SLOPES - 2:1 (MAXIMUM)
 - TYPE 3 (REINFORCED)
 - HEIGHT - 36-48 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
 - TOP WIDTH - 2 FEET (MINIMUM)
 - SLOPES - 3:1 (MAXIMUM)
 - TYPE 4 (GABION)
 - HEIGHT - 30 INCHES (MINIMUM). MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
 - TOP WIDTH - 2 FEET (MINIMUM)
 - SLOPES - 3:1 (MAXIMUM)
 - TYPE 5. AS SHOWN ON THE PLANS.
- CONSTRUCT FILTER DAMS ACCORDING TO THE FOLLOWING CRITERIA UNLESS SHOWN OTHERWISE ON THE PLANS.
- TYPE 2 AND 3 FILTER DAMS: SECURE WITH 20 GAUGE GALVANIZED WOVEN WIRE MESH WITH 1 INCH DIAMETER HEXAGONAL OPENINGS.
 - GRANULAR FILL:
 - PLACE ON MESH TO HEIGHT AND SLOPES SHOWN ON PLANS OR AS SPECIFIED BY THE ENGINEER.
 - 3-5 INCHES FOR ROCK FILTER DAM TYPES 1,2, AND 4 AND 4-8 INCHES FOR ROCK FILTER DAM TYPE 3. REFER TO GRANULAR FILL IN SPECIFICATION SECTION NO. 02378-RIPRAP AND GRANULAR FILL.
 - WIRE MESH: FOLD AT UPSTREAM SIDE OVER GRANULAR FILL AND TIGHTLY SECURE TO ITSELF ON THE DOWNSTREAM SIDE USING WIRE TIES OR HOOP RINGS.
 - IN STREAMS: SECURE OR STAKE MESH TO STREAM BED PRIOR TO AGGREGATE PLACEMENT.
 - SEE SPECIFICATION SECTION NO. 02364-FILTER DAMS.
 - EMBED ONE FOOT MINIMUM INTO SLOPE AND AT SLOPE RAISE ONE FOOT HIGHER THAN CENTER OF DEPRESSED AREA.

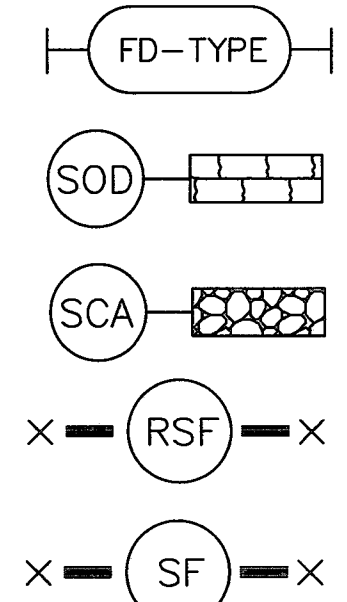


- GEOTEXTILE NOTES:
- | MIN. AGS | MAX. AGS | WEIGHT | SIZE NO. | 120 MIN | 50 MAX | 4 OZ/SY |
|----------|----------|--------|----------|---------|--------|---------|
| | | | | | | |



CONTRACTOR TO INSTALL SOLID SOD GRASS ON ALL AREAS WHERE EXISTING DRIVEWAY TO BE REMOVED AND RE-CURBED AS REQUIRED BY CITY OF PASADENA. (TYPICAL ALL SIDES)

SYMBOL

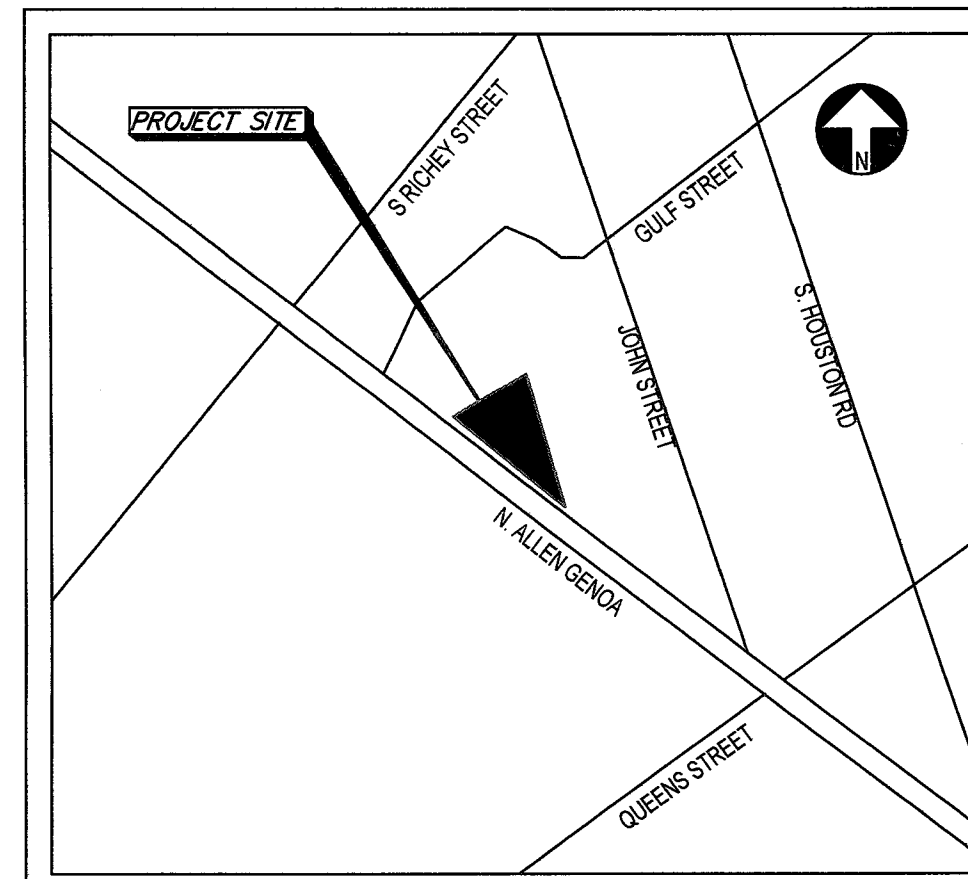


- BENCH MARK DATA:
- PROJECT BENCH ELEVATIONS ARE REFERENCE TO RM 030230 BEING A BRASS DISK STAMPED 030230 WITH EL. 28.32 NAVD83, 2001 ADJUSTMENT
 - ALL ELEVATIONS EXPRESSED HEREON ARE BASED RM 030230 BY R.P.L.S. DON TED MALER SURVEY DATED 2/28/18 JOB. No. 18-109
- ELEV. FROM HCFCD RM BRASS DISK STAMPED 030230 FROM THE INTERSECTION OF SOUTH RICHLEY STREET AND MARTINVILLE DRIVE, TRAVEL SOUTH ON MARTINVILLE TO DEAD END AND VEER TO THE RIGHT WHICH IS LOCATED ON THE MOST SOUTHEASTERLY END OF THE BRIDGE, IN THE CENTER OF THE SIDEWALK.
3. FLOOD PLAN DATA:
THIS TRACT LIES IN ZONE "X" AREA OUTSIDE 500 YEAR FLOOD PLAN FLOOD ZONE PER FEMA FLOOD INSURANCE RATE MAP (FIRM) MAP No. 48020100915 JUNE , 09 2014.

MEETS AND BOUNDS SURVEY

BEING A TRACT OR PARCEL OF LAND IN THE J.H. BURNETT SURVEY, ABSTRACT NO. 1142 HARRIS COUNTY TEXAS AND BEING SO CALLED 21.15 ACRES CONV. TO AXEL PETERSON BY GEORGE S. DURANT, BEING OUT OF THE J.H. BURNETT SURVEY. DEED RECORDS OF HARRIS COUNTY, IN VOLUME 207, PG. 47 OF H.C. DEED RECORDS. DATED MAY 10, 2006. OWNER BENITO VALDEZ

STORM WATER POLLUTION PREVENTION PLAN
SCALE: 1"=30'-0"



2215 ALLEN GENOA VICINITY MAP
KEY MAP NO. 501-P

MAINTENANCE OF DETENTION FACILITY ON SITE, IS RESPONSIBILITY OF OWNER AND OWNER WILL CREATE A LOG SHEET WITH DATES AND NOTED DETAILS OF CLEAN-UP TO MAINTAIN A CLEAN OUTFLOW OF DEBRIS FREE STORM WATER INTO PUBLIC SYSTEM (UNIT D-118-02-00)

CONTRACTOR TO INSTALL EXPANSION JOINT AT BUILDING / SIDEWALK ALONG EASEMENT BOUNDARY. (TYPICAL LENGTH OF SIDEWALK)

YAVAHAI CONSULTING ENGINEERS
FRAC
5700 HWY CENTRAL DR. STE 220
HOUSTON, TX 77057
T.B.P.E. FIRM # 4266
PHONE: (713) 406-0055
WWW.YAVAHAI.COM

DESIGN & CONSULTATION
www.yavahai.com
(409) 281-0005

DRAWINGS ISSUED FOR:

03-25-19	RE-DESIGN SITE
03-26-19	PRELIMINARY
08-29-14	SUBMITTAL
05-04-19	SWALE REVISION
08-21-19	REV PER C.O.P. REVIEW
09-12-19	REV PER C.O.P. REVIEW
01-21-20	REV PER C.O.P. REVIEW
	Issued for Construction

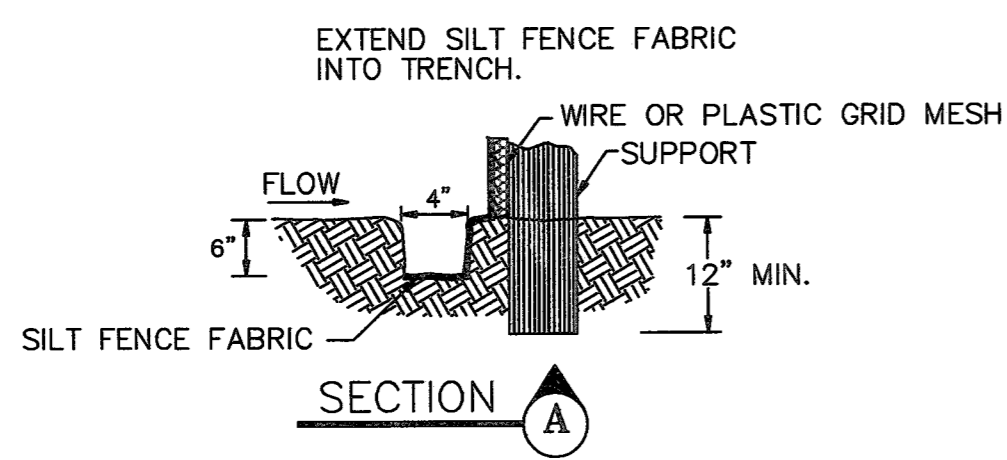
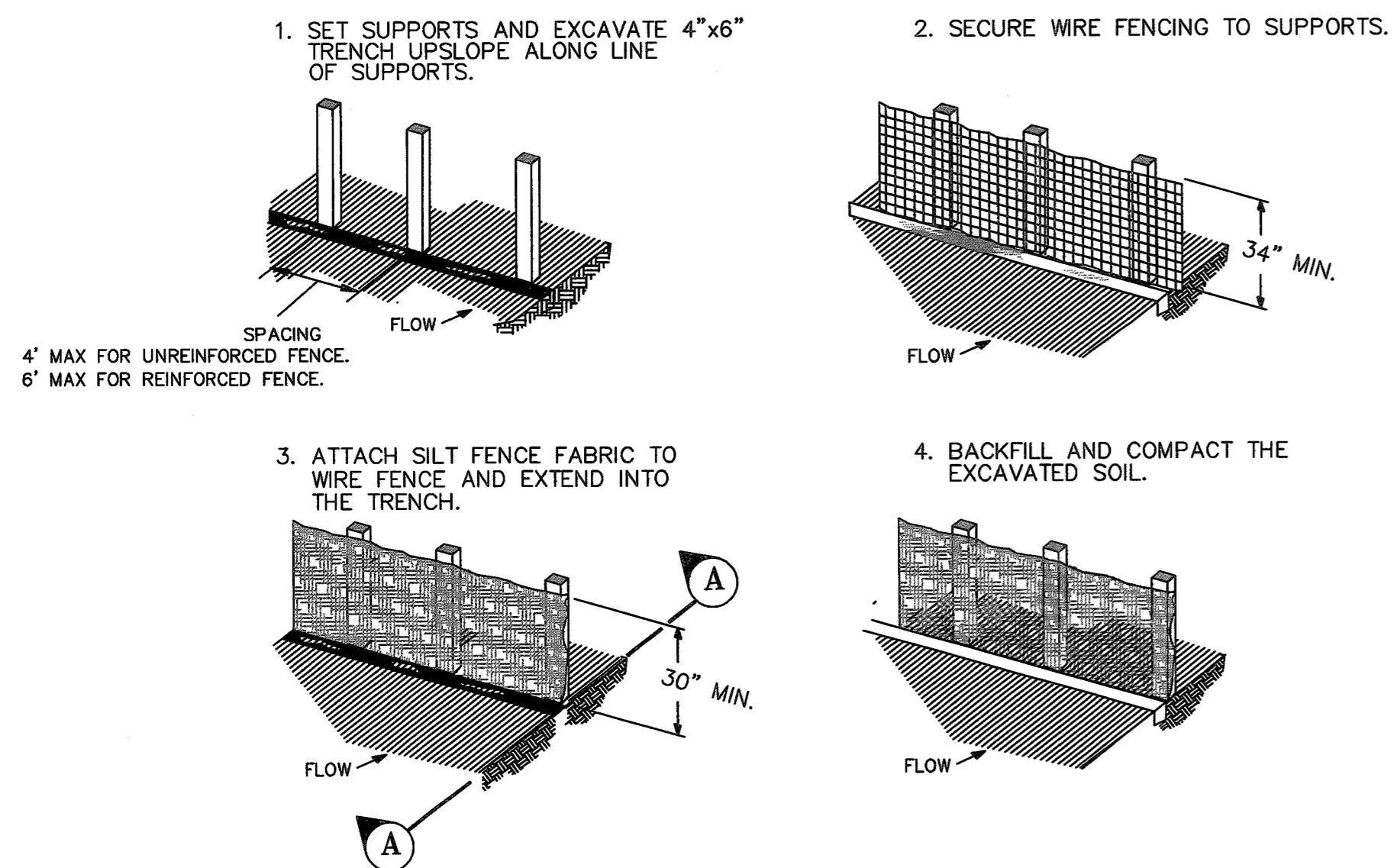
REVISIONS

STATE OF TEXAS
ENGINEER
THOMAS NGUYEN
JANUARY 20, 2020

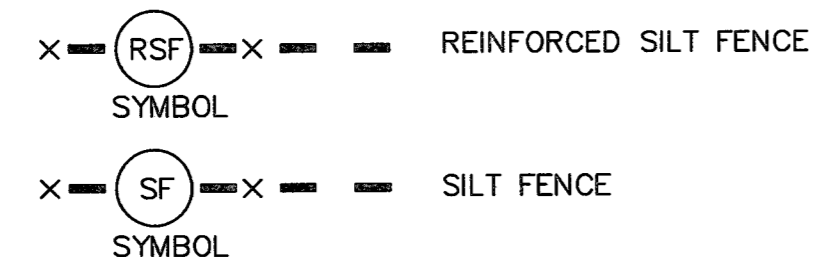
"ALLEN GENOA" COMMERCIAL FACILITY
RETAIL LEASE SPACE
2215 ALLEN GENOA
PASADENA, TEXAS 77512
A PROJECT OF:
THOMAS NGUYEN

DRAWING TITLE
STORM WATER P.P.P.

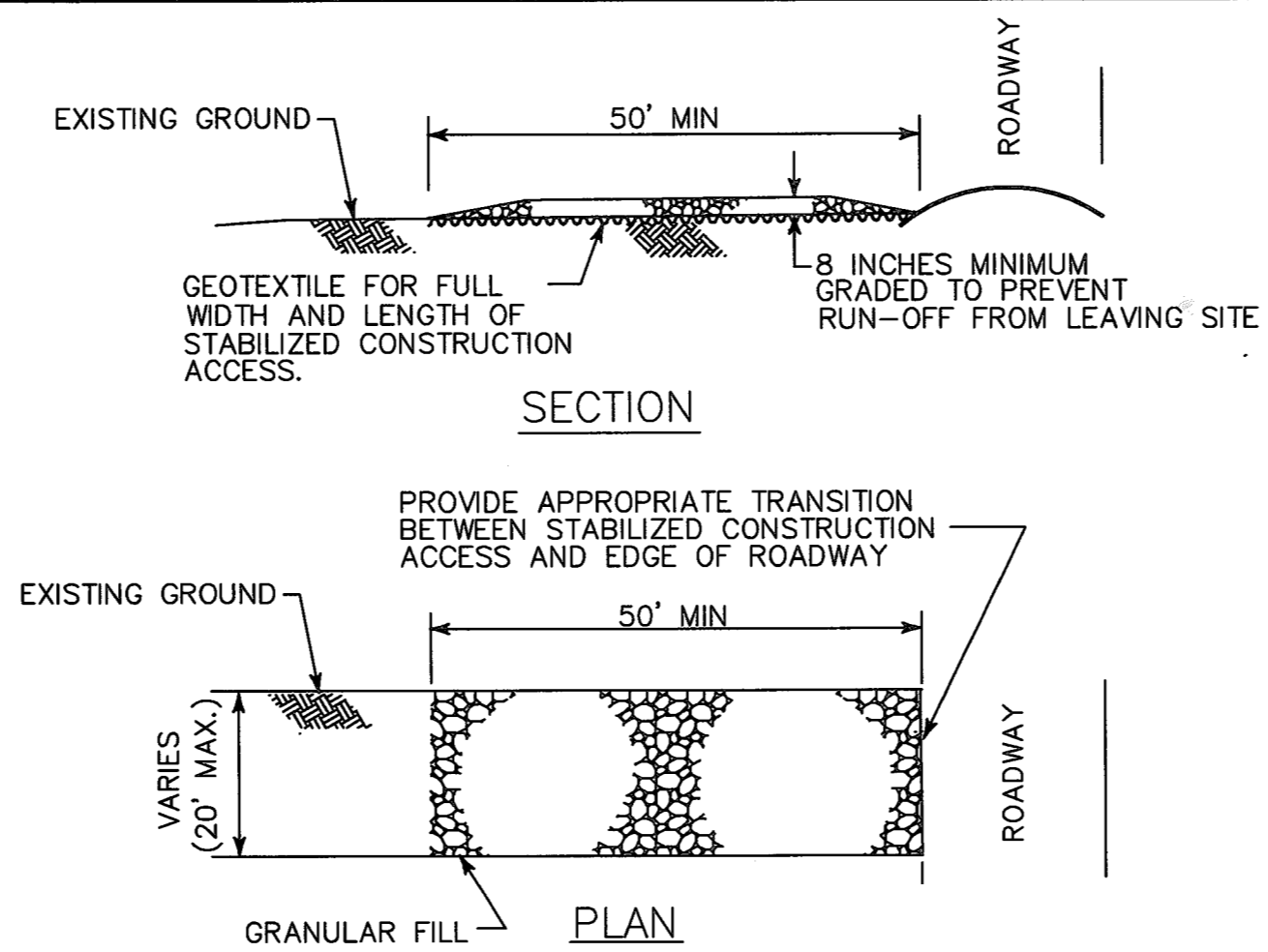
DWG #
C-3



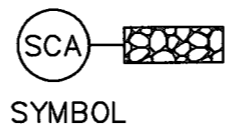
CONSTRUCTION NOTES:
1. SEE SPECIFICATION SECTION NO. 02361-SILT FENCES.



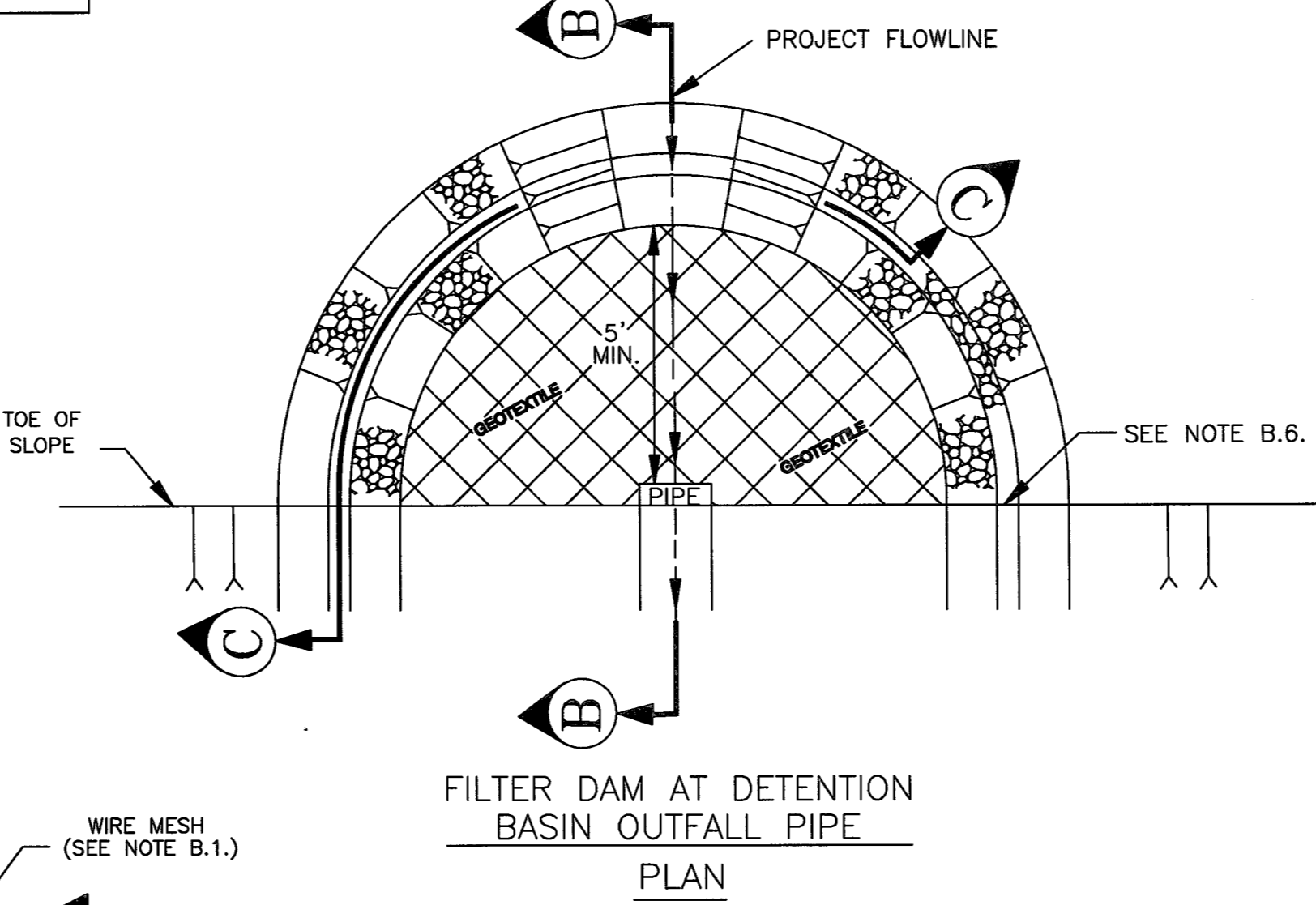
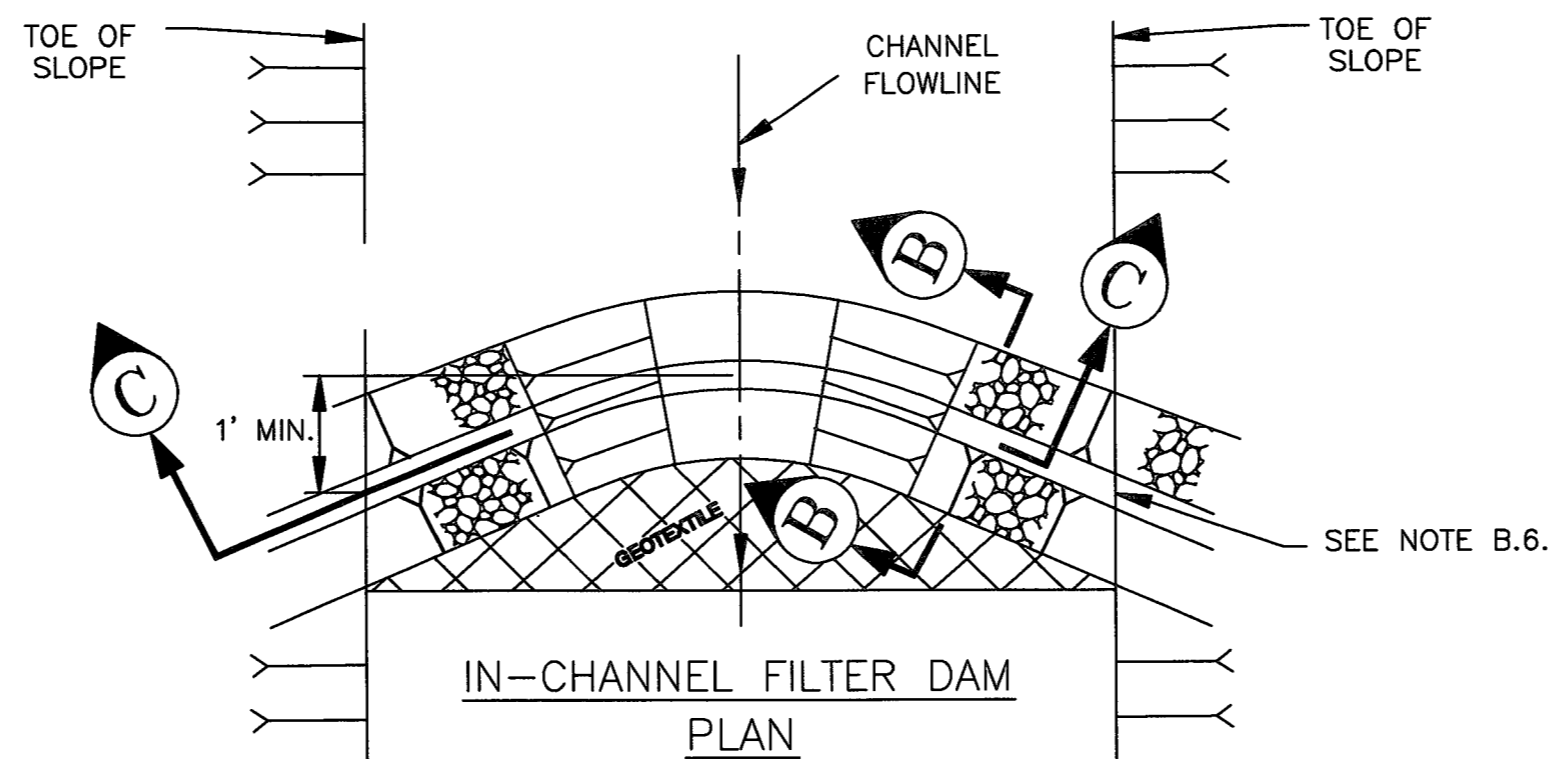
SILT FENCE



CONSTRUCTION NOTES:
1. SEE SPECIFICATION SECTION NO. 02365-STABILIZED CONSTRUCTION ACCESS.

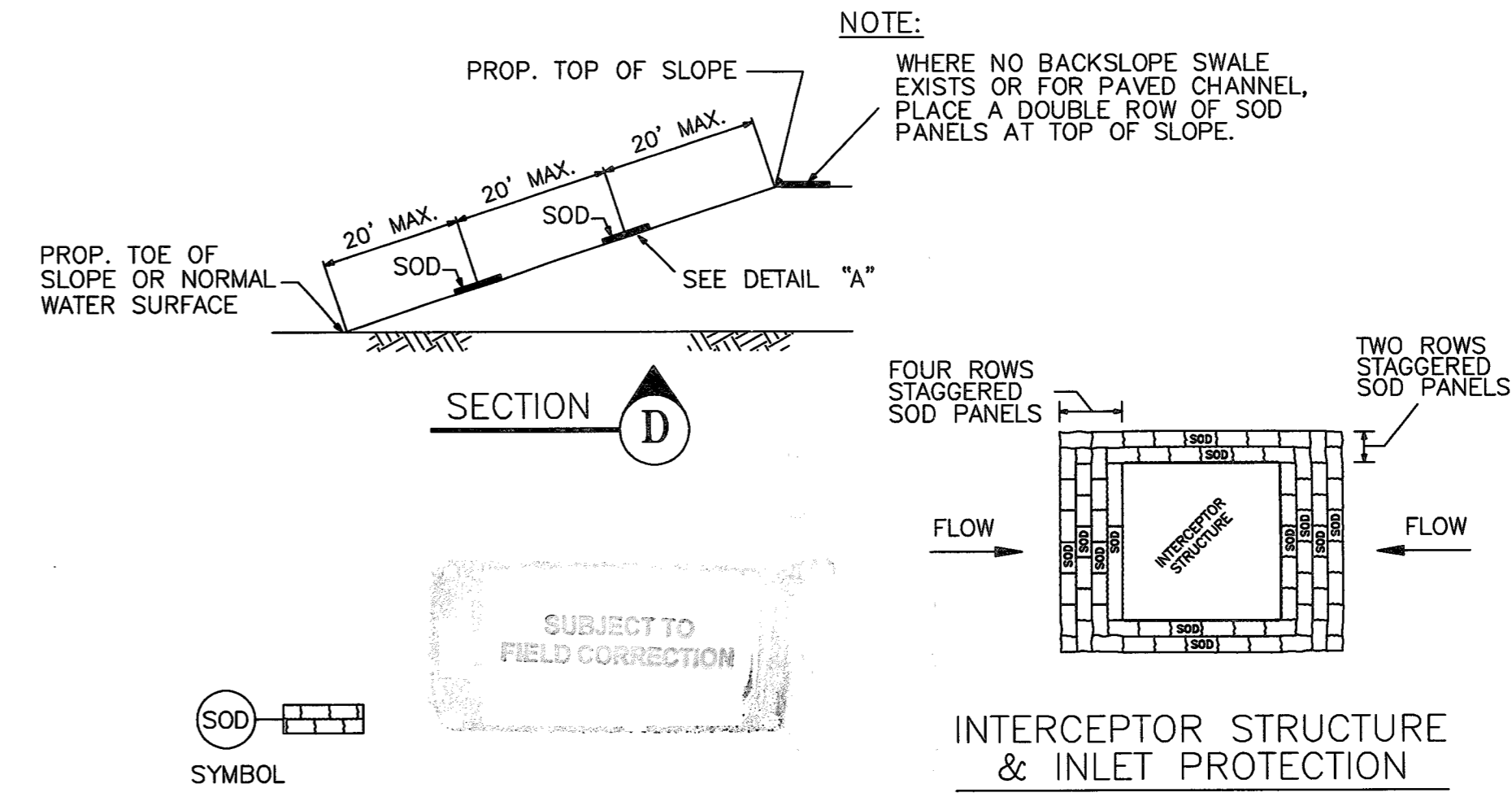
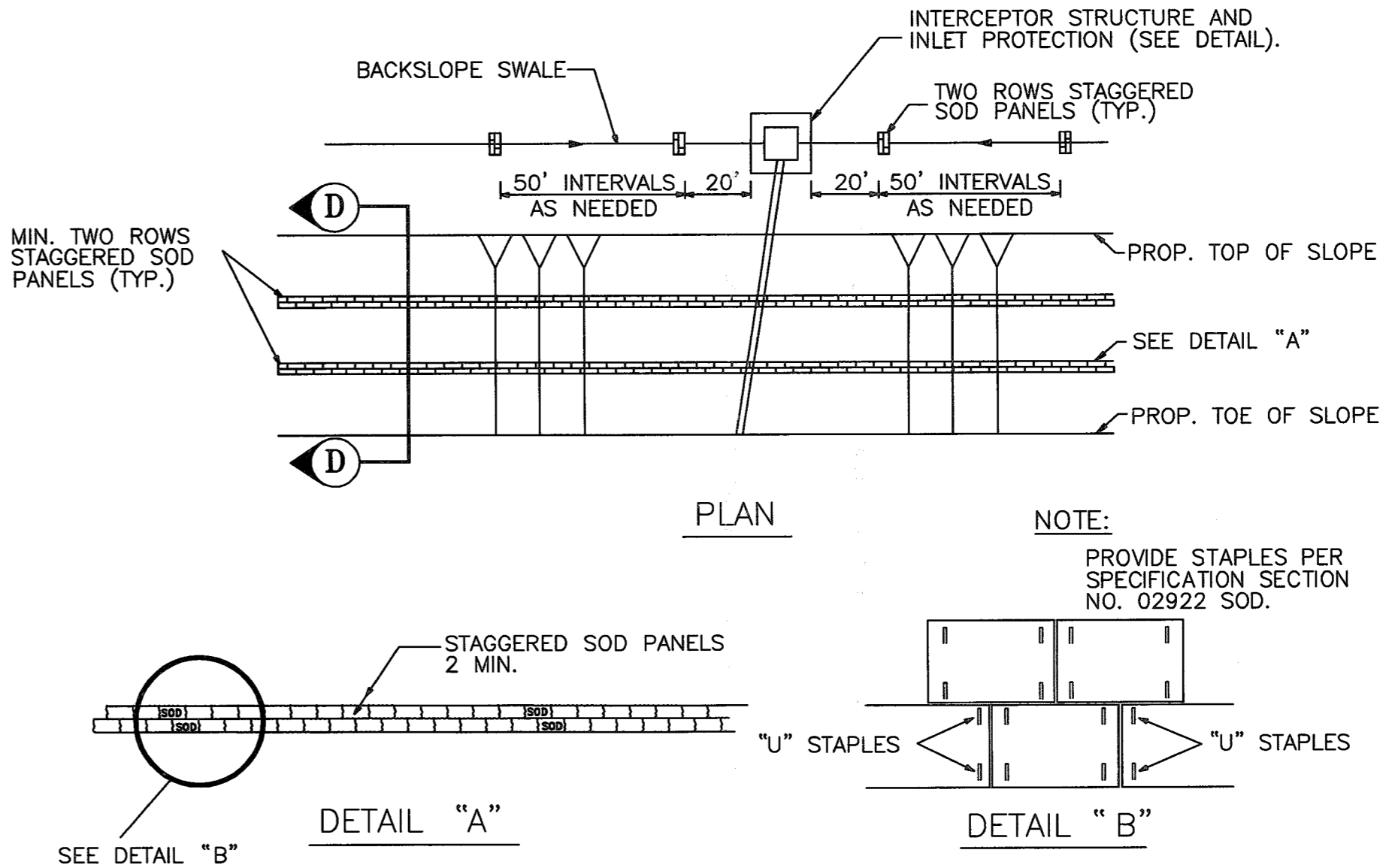


STABILIZED CONSTRUCTION ACCESS



GEOTEXTILE NOTES:
MIN. AOS: 120 MIN
MAX. AOS: 50 MAX
WEIGHT: 4 OZ./SY

FILTER DAM



SODDING

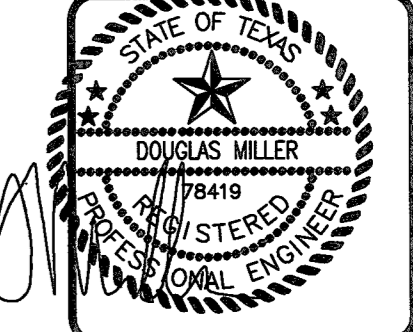
FILTER DAM NOTES:

- A. TYPES OF FILTER DAMS
 1. TYPE 1 (NON-REINFORCED)
 - a. HEIGHT - 18-24 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
 - b. TOP WIDTH - 2 FEET (MINIMUM).
 - c. SLOPES - 2:1 (MAXIMUM).
 2. TYPE 2 (REINFORCED)
 - a. HEIGHT - 18-36 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
 - b. TOP WIDTH - 2 FEET (MINIMUM).
 - c. SLOPES - 2:1 (MAXIMUM).
 3. TYPE 3 (REINFORCED)
 - a. HEIGHT - 36-48 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
 - b. TOP WIDTH - 2 FEET (MINIMUM).
 - c. SLOPES - 3:1 (MAXIMUM).
 4. TYPE 4 (GABION)
 - a. HEIGHT - 30 INCHES (MINIMUM). MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
 - b. TOP WIDTH - 2 FEET (MINIMUM).
 5. TYPE 5. AS SHOWN ON THE PLANS.
- B. CONSTRUCT FILTER DAMS ACCORDING TO THE FOLLOWING CRITERIA UNLESS SHOWN OTHERWISE ON THE PLANS.
 1. TYPE 2 AND 3 FILTER DAMS: SECURE WITH 20 GAUGE GALVANIZED WOVEN WIRE MESH WITH 1 INCH DIAMETER HEXAGONAL OPENINGS.
 2. GRANULAR FILL:
 - a. PLACE ON MESH TO HEIGHT AND SLOPES SHOWN ON PLANS OR AS SPECIFIED BY THE ENGINEER.
 - b. 3-5 INCHES FOR ROCK FILTER DAM TYPES 1, 2, AND 4 AND 4-8 INCHES FOR ROCK FILTER DAM TYPE 3. REFER TO GRANULAR FILL IN SPECIFICATION SECTION NO. 02378-RIPRAP AND GRANULAR FILL.
 3. WIRE MESH: FOLD AT UPSTREAM SIDE OVER GRANULAR FILL AND TIGHTLY SECURED TO ITSELF ON THE DOWNSTREAM SIDE USING WIRE TIES OR HOG RINGS.
 4. IN STREAMS: SECURE OR STAKE MESH TO STREAM BED PRIOR TO AGGREGATE PLACEMENT.
 5. SEE SPECIFICATION SECTION NO. 02364-FILTER DAMS.
 6. EMBED ONE FOOT MINIMUM INTO SLOPE AND RAISE ONE FOOT HIGHER THAN CENTER OF DEPRESSED AREA AT SLOPE.

THIS DETAIL SHEET HAS BEEN PREPARED FOR USE ON HCFCD PROJECTS OR PROJECTS TO BE MAINTAINED BY THE HCFCD WHEN COMPLETED BY OTHERS. THE ENGINEER SHOULD CAREFULLY REVIEW THESE DETAILS TO DETERMINE THEIR APPLICABILITY TO A PARTICULAR PROJECT. IF REVISIONS ARE NECESSARY, THEY SHALL BE CLEARLY DELINEATED AND NOTED IN THE REVISION BLOCK IN ACCORDANCE WITH RULE §131.152 (e) OF THE TEXAS STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS. AN ENGINEER WHO INCORPORATES THE DETAILS ON THIS SHEET INTO HIS WORK MUST SEAL THIS SHEET AND BECOME RESPONSIBLE FOR ITS USE IN THE END PRODUCT IN ACCORDANCE WITH RULE §131.166(m).

NO.	DATE	DESCRIPTION
1		
2		
3		
4		

THIS DRAWING IS PROPERTY OF CLAY ASSOCIATES AND IS TO BE KEPT IN WHOLE OR IN PART OR USED IN ANY MANNER WITHOUT PERMISSION FROM CLAY ASSOCIATES. CONTRACTOR IS RESPONSIBLE FOR ANY DISCREPANCY WITH THE PLANS & ENGINEER'S RECORD DRAWINGS. RECORD DRAWINGS SHALL BE IMMEDIATELY FOR ADJUSTMENT OR VERIFICATION.

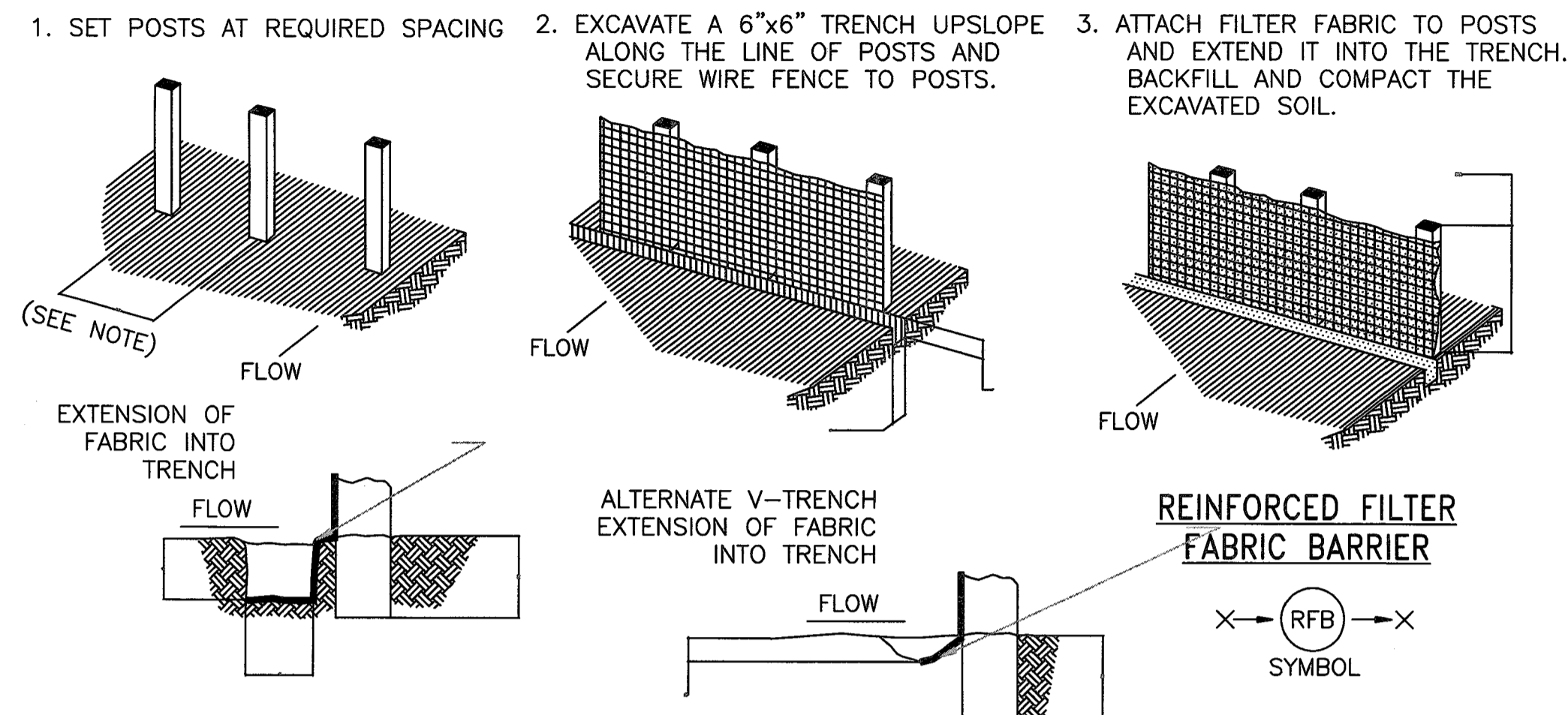


THIS SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DOUGLAS MILLER P.E. NO. 78419 ON 06/03/18 FIRM NO. 9837

CLAY ASSOCIATES LLC
2222 WEST 17TH STREET
PASADENA, TEXAS 77663
TEL: 281.233.1111
WWW.CLAYASSOCIATES.COM

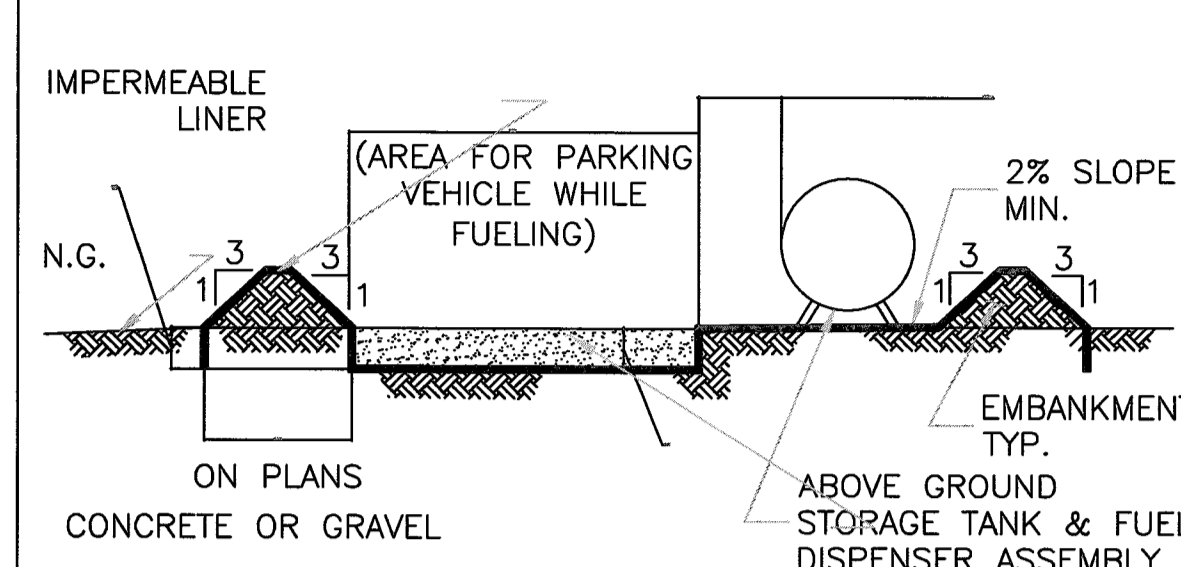
ALLEN GENOA SHOPPING PLAZA
CIVIL STORM WATER
POLLUTION PREVENTION DETAIL
2215 ALLEN GENOA
PASADENA TEXAS

DATE: 06-03-18
CHECKED BY: b.clay
DESIGNED BY: B.CLAY
SCALE: 1=30
JOB NO: CAE052705
FILE: MEKONG



GENERAL NOTES:

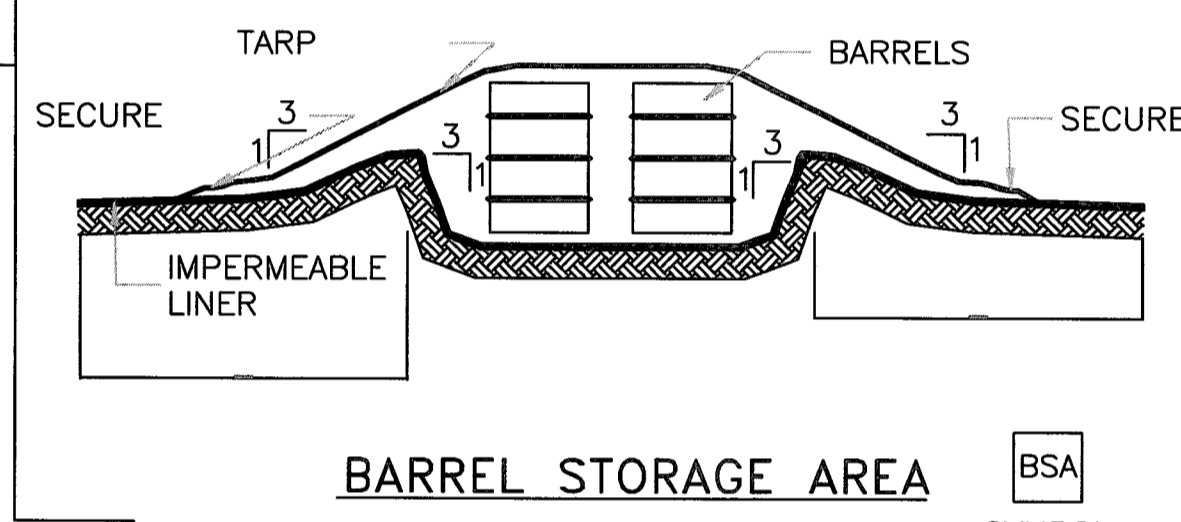
1. SECURELY FASTEN MESH FENCING TO POSTS WITH STAPLES OR TIE WIRES.
2. SECURELY FASTEN FILTER FABRIC TO MESH FENCING.
3. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, OVERLAP 6 INCHES AT A POST, FOLD TOGETHER, AND ATTACH TO A POST.
4. REMOVE SEDIMENT DEPOSITS WHEN SILT REACHES ONE-THIRD OF THE HEIGHT OF THE FENCE IN DEPTH.



ABOVE GROUND TEMP. VEHICLE & EQUIPMENT FUELING AREA WITH TANK

GENERAL NOTES:

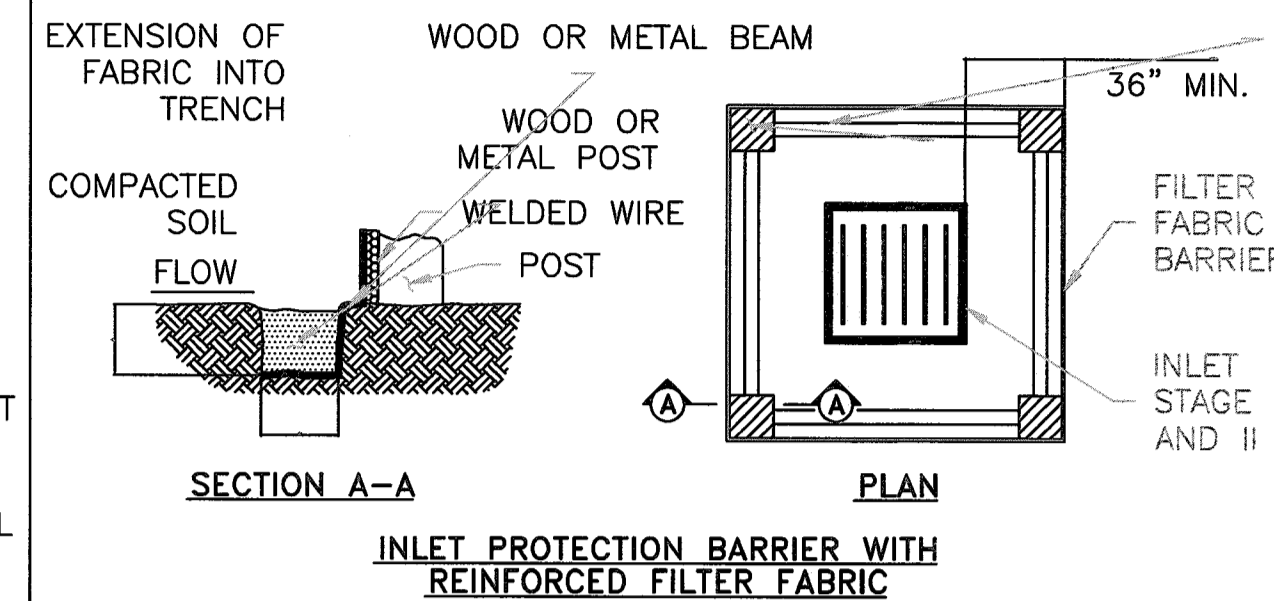
1. THE SIZE OF TANK FOUNDATION AREA DEPENDS ON THE SIZE OF ABOVE GROUND STORAGE TANK AND DISPENSER ASSEMBLY.
2. PROVIDE A MINIMUM SLOPE OF 2% TOWARD THE SUMP PIT.
3. INSTALL IMPERMEABLE LINER AS PER MANUFACTURER'S RECOMMENDATIONS.



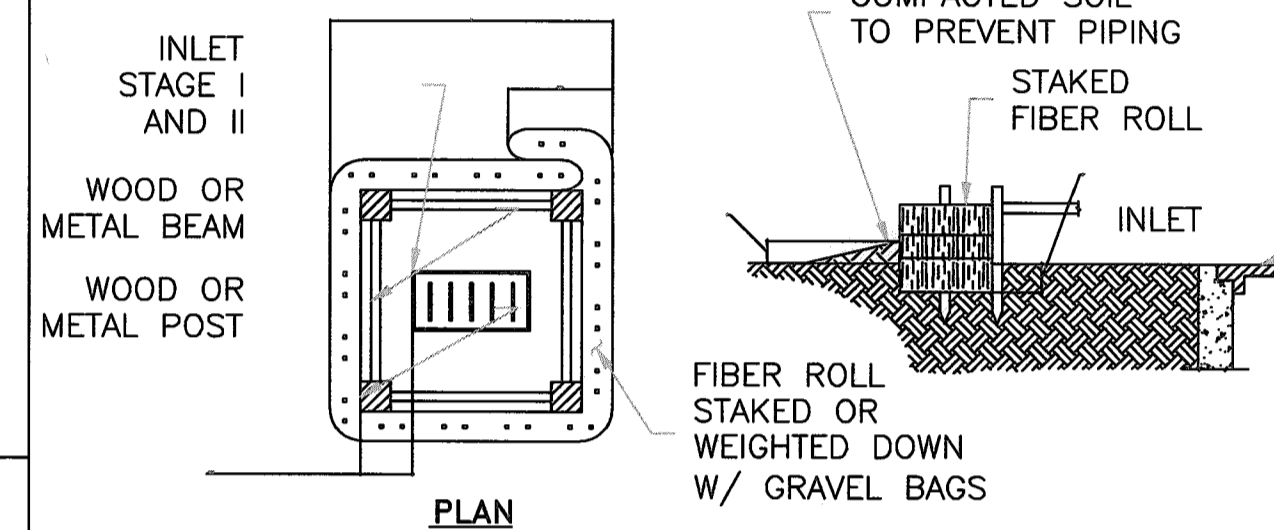
BARREL STORAGE AREA

GENERAL NOTES:

1. ALTERNATIVELY, STORE BARRELS IN AN ENCLOSED BUILDING OR SHED.
2. INSTALL IMPERMEABLE LINER AS PER MANUFACTURER'S RECOMMENDATIONS. 60 mil MINIMUM.
3. CONSTRUCT BERMED AREA WITH VOLUME GREATER THAN OR EQUAL TO 110% VOLUME OF BARRELS.



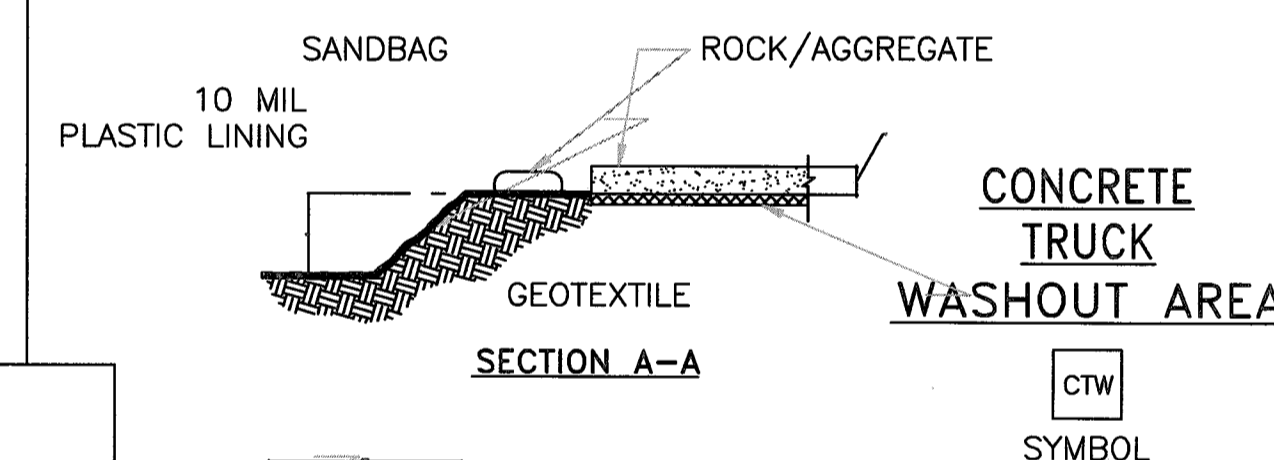
INLET PROTECTION BARRIER WITH REINFORCED FILTER FABRIC



INLET PROTECTION BARRIERS FOR STAGE I INLETS

GENERAL NOTES:

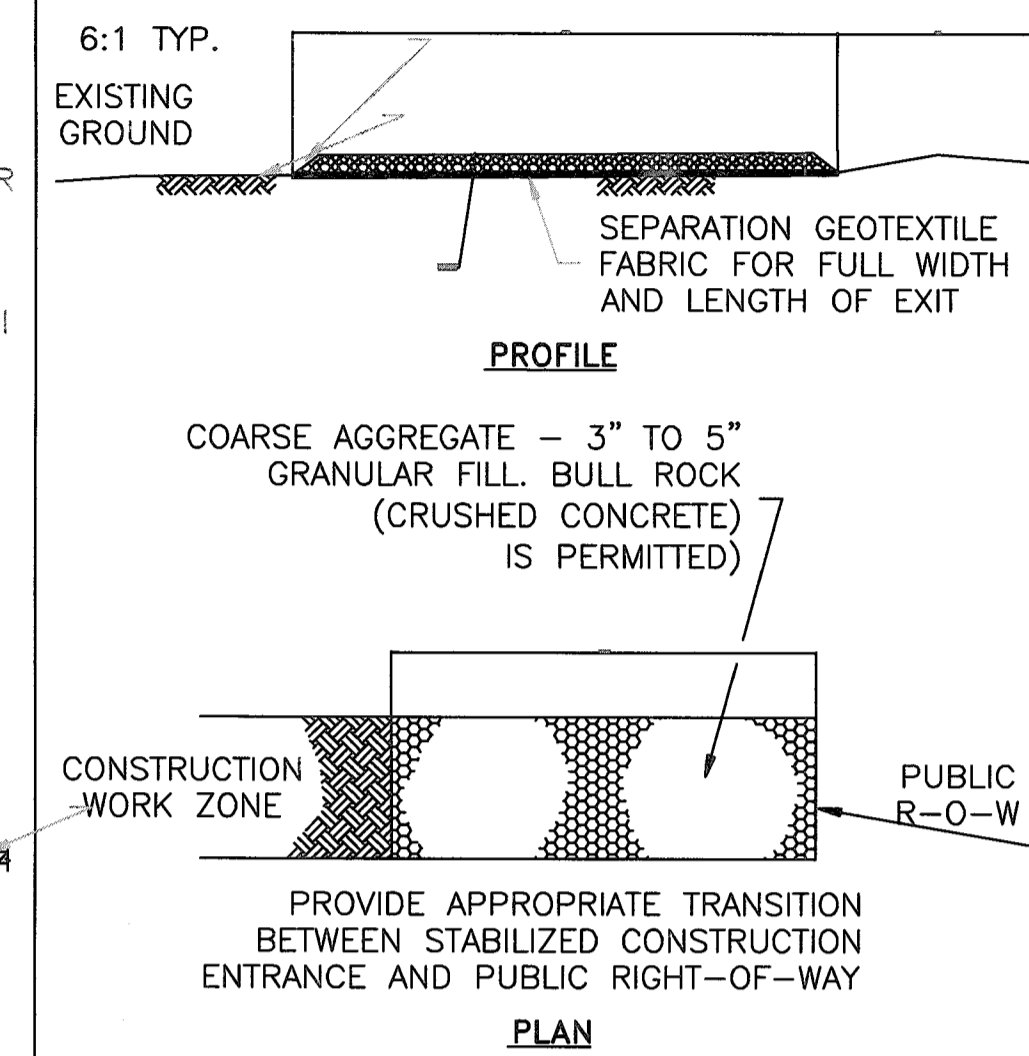
1. FIBER ROLLS WILL BE UTILIZED ONLY WHEN SITE CONDITIONS DO NOT PERMIT THE USE OF FILTER FABRIC BARRIER, AND AS APPROVED BY THE ENGINEER.



CONCRETE TRUCK WASHOUT AREA

GENERAL NOTES:

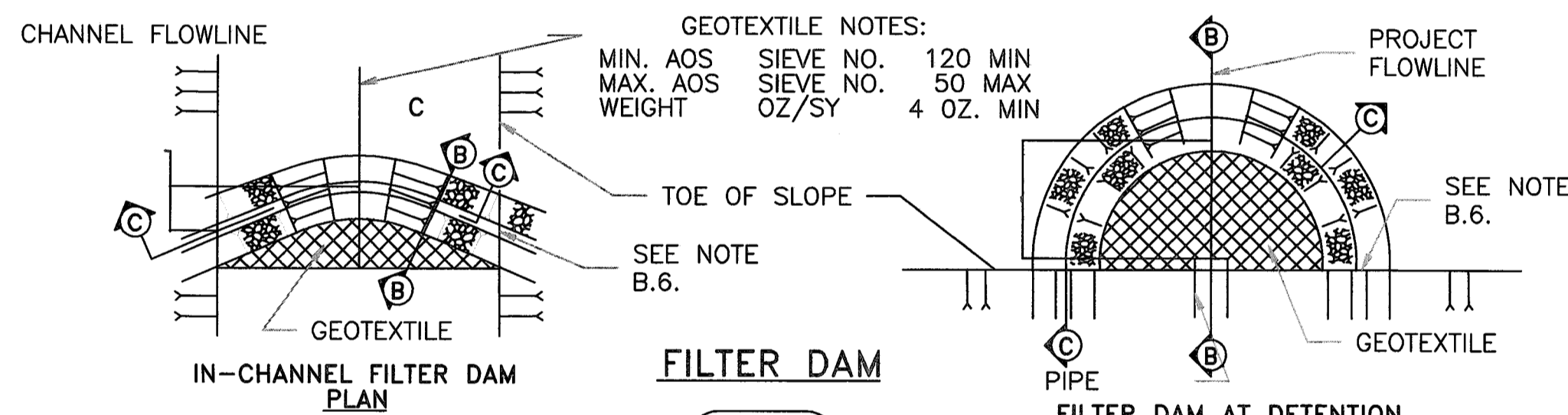
1. POST A SIGN READING "CONCRETE WASHOUT PIT" NEXT TO THE PIT.
2. VERBALLY INSTRUCT THE CONCRETE TRUCK DRIVERS WHERE THE PIT IS AND TO WASHOUT THEIR TRUCKS IN THE PIT AND NOWHERE ELSE.
3. UPON THE CONCRETE SETTING UP (CURING, DRYING OUT), THE CONCRETE WASTE SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF PROPERLY BY THE CONTRACTOR. AFTER REMOVAL OF THE CONCRETE WASTE, THE WASHOUT PIT SHALL BE FILLED WITH CLEAN FILL MATERIAL AND COMPACTED TO IN-SITU CONDITIONS, OR AS DIRECTED BY THE PROJECT SPECIFICATIONS.
4. CONCRETE WASHOUT PITS SHALL NOT BE LOCATED DIRECTLY ADJACENT TO, NOR AT ANY TIME DRAIN INTO THE STORM SEWER SYSTEM OR ANY OTHER SWALE, DITCH, OR WATERWAY.
5. CONSTRUCT ENTRY ROAD AND BOTTOM OF WASHOUT AREA TO SUPPORT EXPECTED LOADINGS FROM TRUCKS EQUIPMENT.



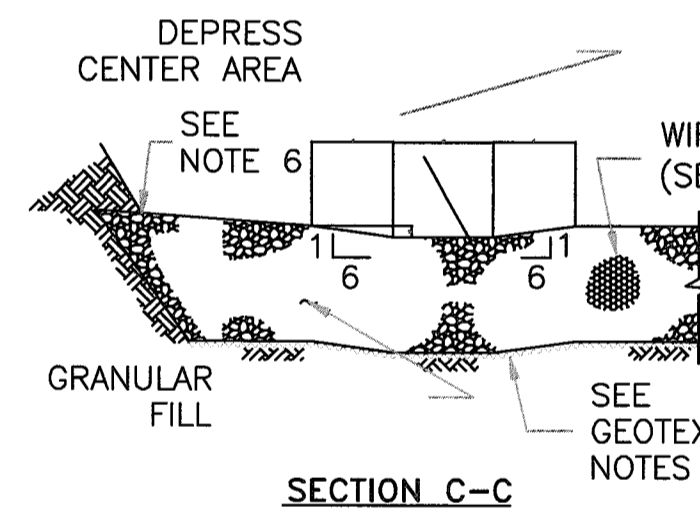
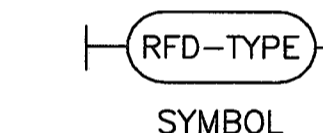
STABILIZED CONSTRUCTION ACCESS

GENERAL NOTES:

1. MINIMUM LENGTH IS AS SHOWN ON CONSTRUCTION DRAWINGS OR 50 FEET, WHICHEVER IS MORE.
2. CONSTRUCT AND MAINTAIN CONSTRUCTION EXIT WITH CONSTANT WIDTH ACROSS ITS LENGTH, INCLUDING ALL POINTS OF INGRESS OR EGRESS.
3. UNLESS SHOWN ON THE CONSTRUCTION DRAWINGS, STABILIZATION FOR OTHER AREAS WILL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT.
4. WHEN SHOWN ON THE CONSTRUCTION DRAWINGS, WIDEN OR LENGTHEN STABILIZED AREA TO ACCOMMODATE A TRUCK WASHING AREA. PROVIDE OUTLET SEDIMENT TRAP FOR THE TRUCK WASHING AREA.
5. PROVIDE PERIODIC TOP DRESSING WITH ADDITIONAL COARSE AGGREGATE TO MAINTAIN THE REQUIRED DEPTH OR WHEN SURFACE BECOMES PACKED WITH MUD.
6. PERIODICALLY TURN AGGREGATE TO EXPOSE A CLEAN DRIVING SURFACE.
7. MINIMUM 14' WIDTH FOR ONE WAY TRAFFIC AND 20' WIDTH FOR TWO WAY TRAFFIC.



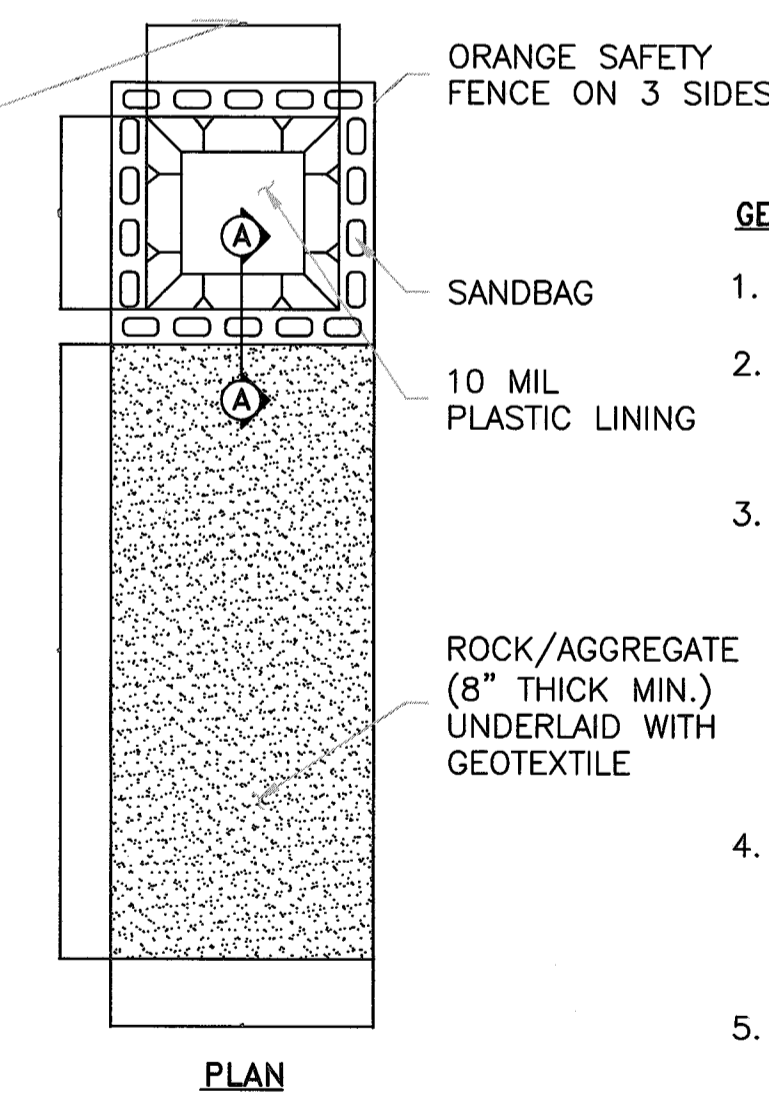
FILTER DAM



INLET PROTECTION BARRIERS FOR STAGE II INLETS

GENERAL NOTES:

1. REMOVE SEDIMENT DEPOSIT WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-THIRD THE HEIGHT OF THE BARRIER.
2. GRAVEL BAGS SHALL NOT BLOCK THROAT OF INLET UNLESS DIRECTED BY ENGINEER.



A. TYPES OF FILTER DAMS

1. TYPE 1 (NON-REINFORCED)
 - a. HEIGHT - 18-24 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
 - b. TOP WIDTH - 2 FEET (MINIMUM)
 - c. SLOPES - 2:1 (MAXIMUM)
2. TYPE 2 (REINFORCED)
 - a. HEIGHT - 18-36 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
 - b. TOP WIDTH - 2 FEET (MINIMUM)
 - c. SLOPES - 2:1 (MAXIMUM)
3. TYPE 3 (REINFORCED)
 - a. HEIGHT - 36-48 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
 - b. TOP WIDTH - 2 FEET (MINIMUM)
 - c. SLOPES - 3:1 (MAXIMUM)
4. TYPE 4 (GABION)
 - a. HEIGHT - 30 INCHES (MINIMUM). MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
 - b. TOP WIDTH - 2 FEET (MINIMUM).
5. TYPE 5. AS SHOWN ON THE PLANS.

B. CONSTRUCT FILTER DAMS ACCORDING TO THE FOLLOWING CRITERIA UNLESS SHOWN OTHERWISE ON THE PLANS.

1. TYPE 2 AND 3 FILTER DAMS: SECURE WITH 20 GAUGE GALVANIZED WOVEN WIRE MESH WITH 1" INCH DIAMETER HEXAGONAL OPENINGS.
2. PLACE GRANULAR FILL ON THE WIRE MESH TO HEIGHT AND SLOPES SHOWN ON PLANS OR AS SPECIFIED BY THE ENGINEER.
 - a. 3-5 INCHES FOR ROCK FILTER DAM TYPES 1, 2 AND 4.
 - b. 4-8 INCHES FOR ROCK FILTER DAM TYPE REFER TO GRANULAR FILL IN SPECIFICATION SECTION No. 02378 RIPRAP AND GRANULAR FILL.
3. FOLD WIRE MESH AT UPSTREAM SIDE OVER GRANULAR FILL AND TIGHTLY SECURE TO ITSELF ON THE DOWNSTREAM SIDE USING WIRE TIES OR HOOP RINGS.
4. IN STREAMS: SECURE OR STAKE MESH TO STREAM BED PRIOR TO AGGREGATE PLACEMENT.
5. SEE HCFCD SPECIFICATION SECTION NO. 02364-FILTER DAMS.
6. EMBED ONE FOOT MINIMUM INTO SLOPE AND RAISE ONE FOOT HIGHER THAN CENTER OF DEPRESSED AREA AT SLOPE.

REVISIONS	DATE	DESCRIPTION
No.		
1		
2		
3		
4		

THIS DRAWING IS THE PROPERTY OF CLAY ASSOCIATES LLC. IT IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART OR USED FOR FURNISHING PERMITS OR CONTRACTS WITHOUT THE WRITTEN PERMISSION FROM CLAY ASSOCIATES LLC. CONTRACTOR IS RESPONSIBLE FOR ANY DISCREPANCIES ON THIS DRAWING. CONTACT ENGINEER IMMEDIATELY FOR ADJUSTMENT OR VERIFICATION.

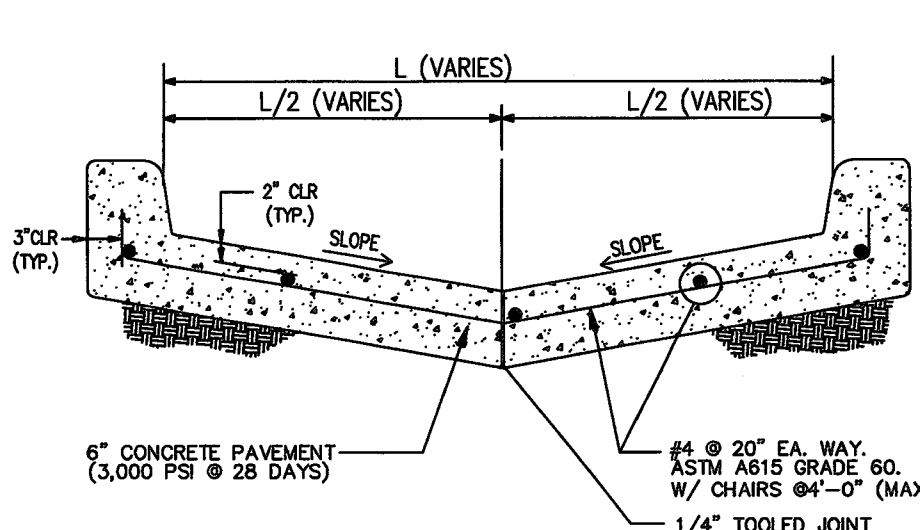
CLAY ASSOCIATES LLC
 2215 ALLEN GENOA
 PASADENA TEXAS

ALLEN GENOA SHOPPING PLAZA
 CIVIL STORM WATER POLLUTION
 PREVENTION DETAILS II

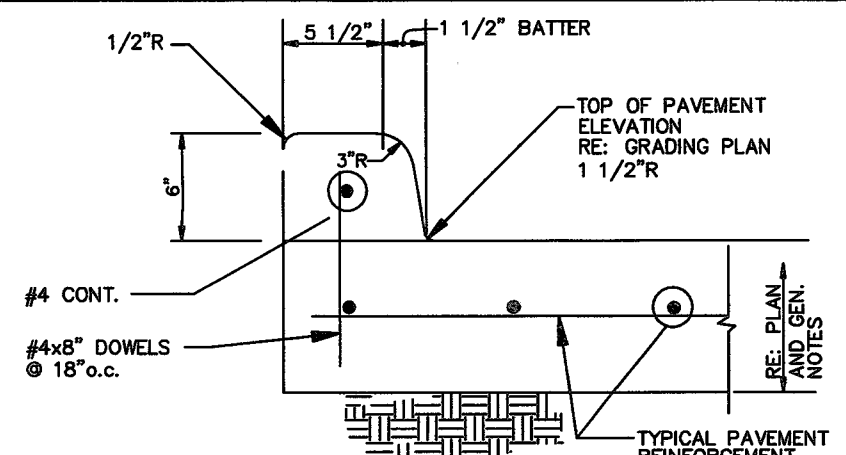
DATE: 06-04-18
 CHECKED BY: b.clay
 DESIGNED BY: B.CLAY
 SCALE:
 JOB No.: CAE060118
 FILE: MEKON

SHEET:
 C-4b
 2 OF 2

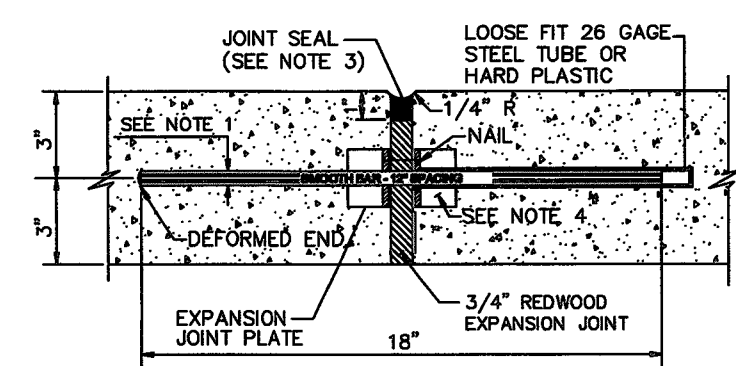
SUBJECT TO FIELD CORRECTION



TYPICAL PAVEMENT SECTION
NOT TO SCALE

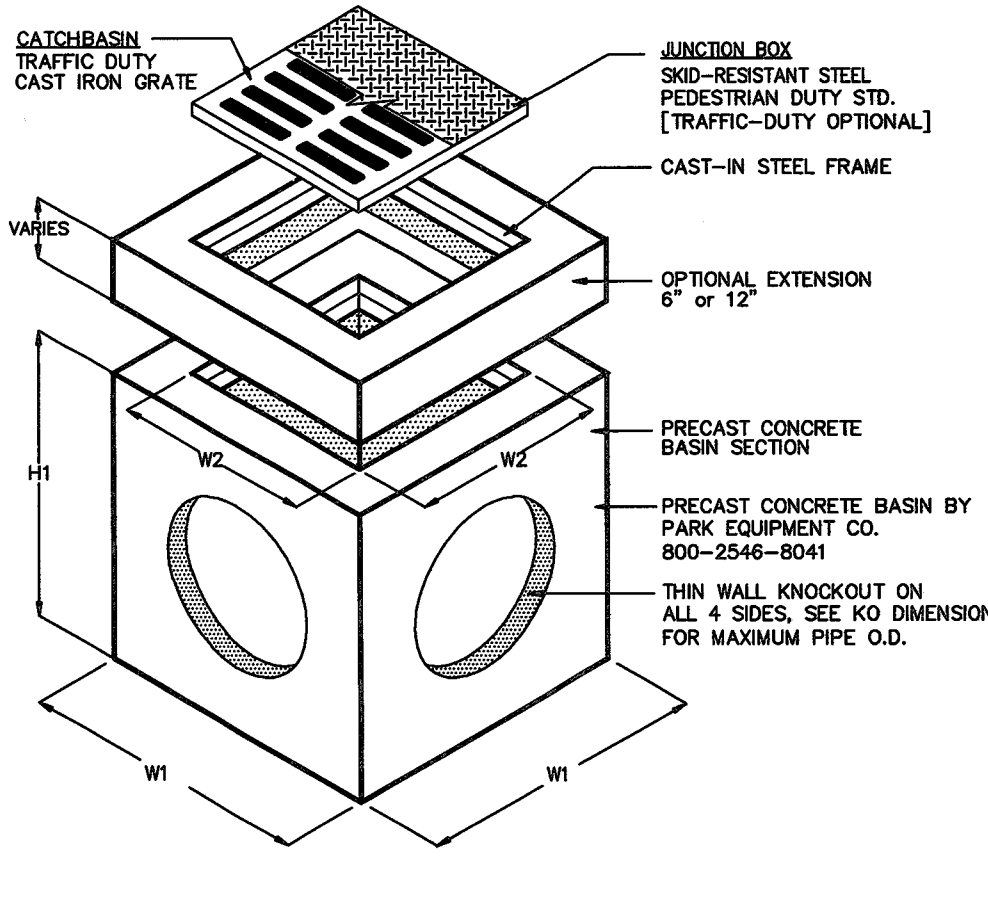


TYPICAL CURB DETAIL
NOT TO SCALE



- NOTES:
- DOWELS FOR PAVEMENT EXPANSION JOINTS SHALL BE 3/4" DIA.
 - EXPANSION JOINT SHALL BE PLACED AT THE END OF EACH CURB RETURN AND AT MAXIMUM OF 20' SPACING.
 - ALL JOINT SEAL MATERIAL SHALL BE ASPHALT RUBBER IN ACCORDANCE WITH ASTM DESIGNATION D3465.
 - PRE-MANUFACTURED JOINT PLATE.

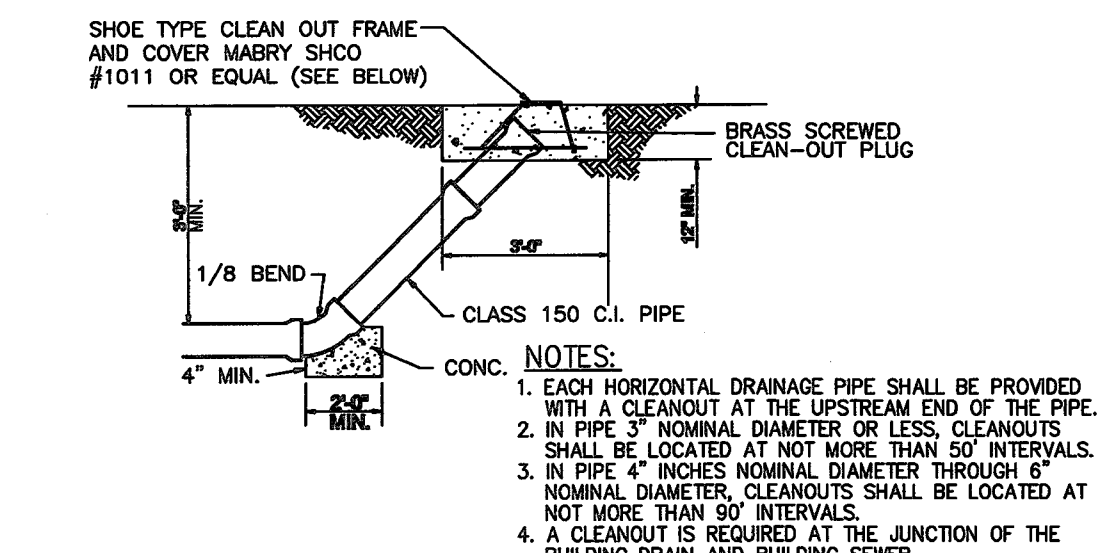
DOWEL TYPE EXPANSION JOINT DETAIL
(N.T.S.)



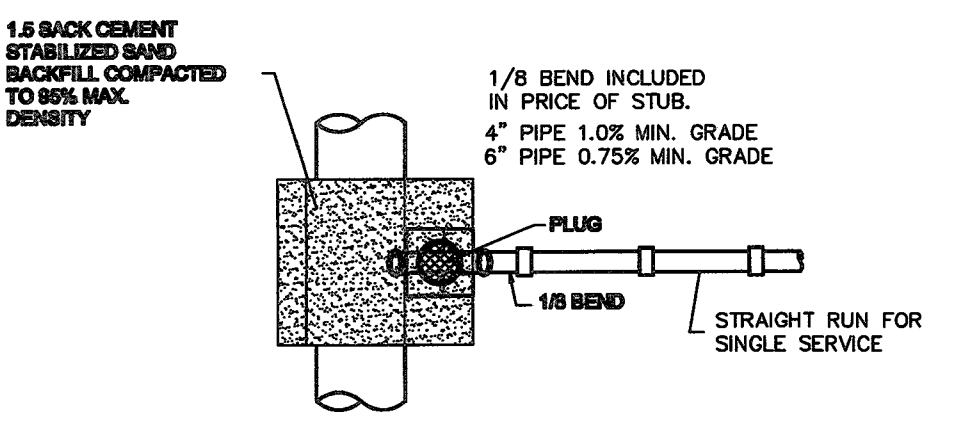
MODEL #	JUNCTION BOX #	W1	W2	H1	H2	T1	KO	GRATE SIZE	WEIGHT LBS
CB12	JB12	15"	10"	21"	18"	2"	10"	12"x12"x1"	180
CB18	JB18	24"	18"	34"	30"	4"	15"	18"x18"x1"	1,000
CB20	JB20	28"	18"	34"	30"	4"	17"	20"x20"x1"	1,335
CB24	JB24	32"	22"	41"	36"	5"	22"	24"x24"x2"	2,245
CB27	JB27	37"	25"	42"	36"	6"	24"	27"x27"x2"	2,875
CB30	JB30	42"	30"	42"	36"	6"	30"	30"x30"x2"	3,575
CB36	JB36	48"	36"	42"	36"	6"	32"	36"x36"x2"	4,585

1. CB12 CATCHBASIN IS RATED FOR PEDESTRIAN LOADING. ALL OTHERS ARE TRAFFIC DUTY.
2. ALL JUNCTION BOXES ARE STANDARD PEDESTRIAN DUTY OR OPTIONAL TRAFFIC DUTY.

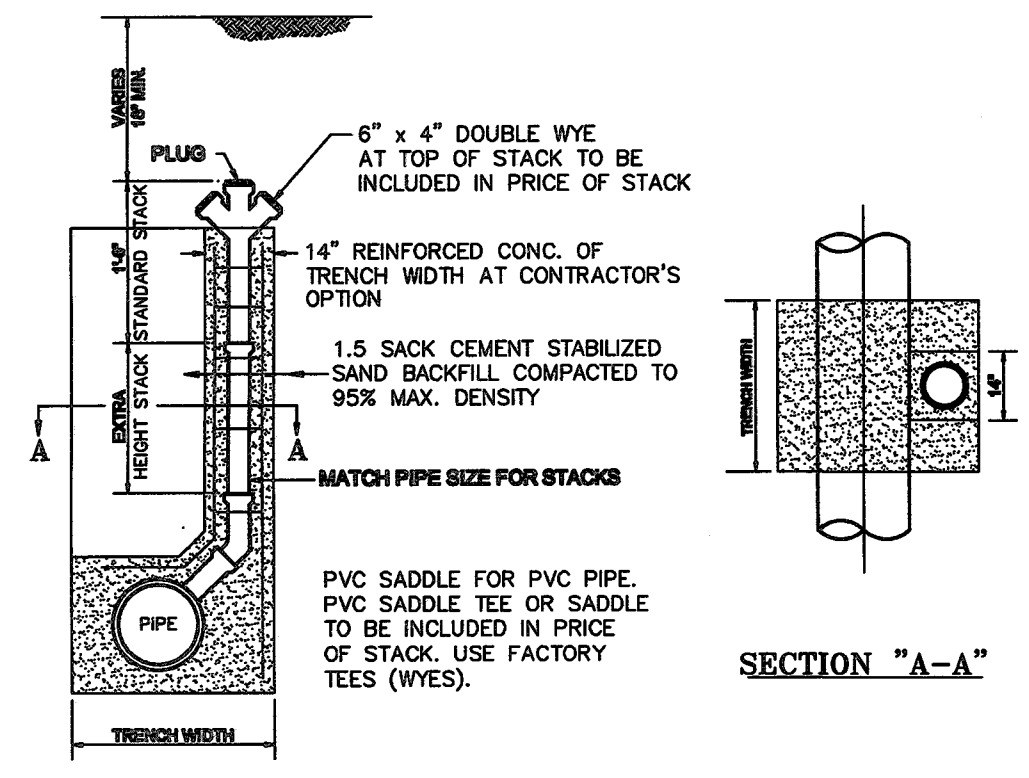
PRECAST CONCRETE CATCHBASIN/JUNCTION BOX
NOT TO SCALE



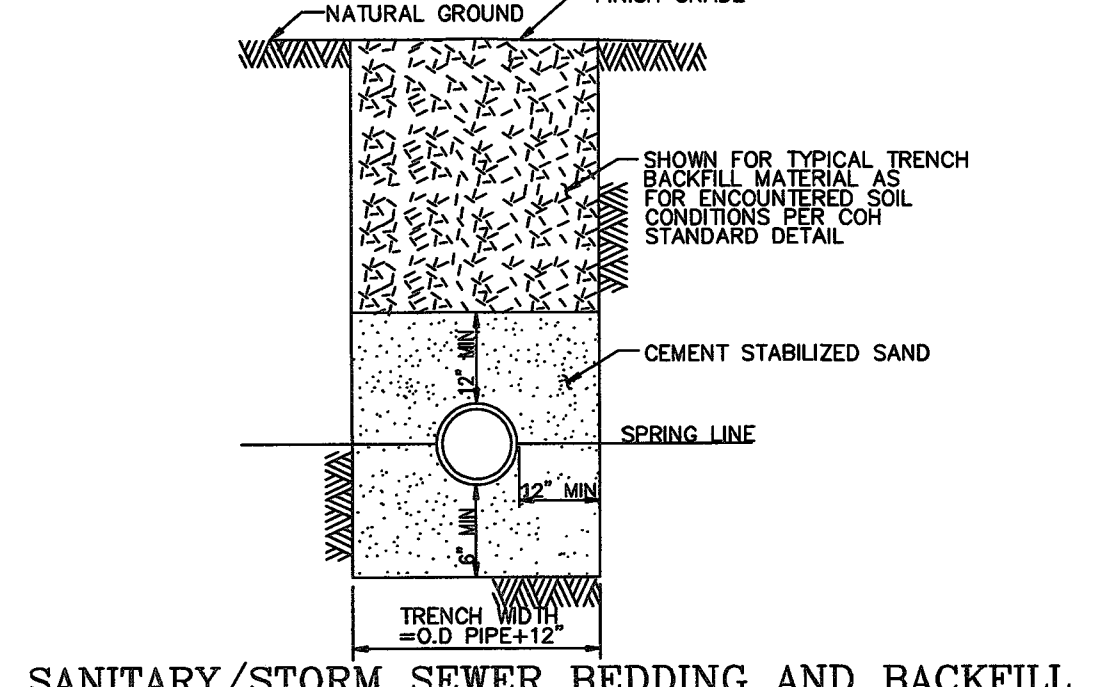
STANDARD SANITARY SEWER CLEAN OUT DETAIL
(NOT TO SCALE)



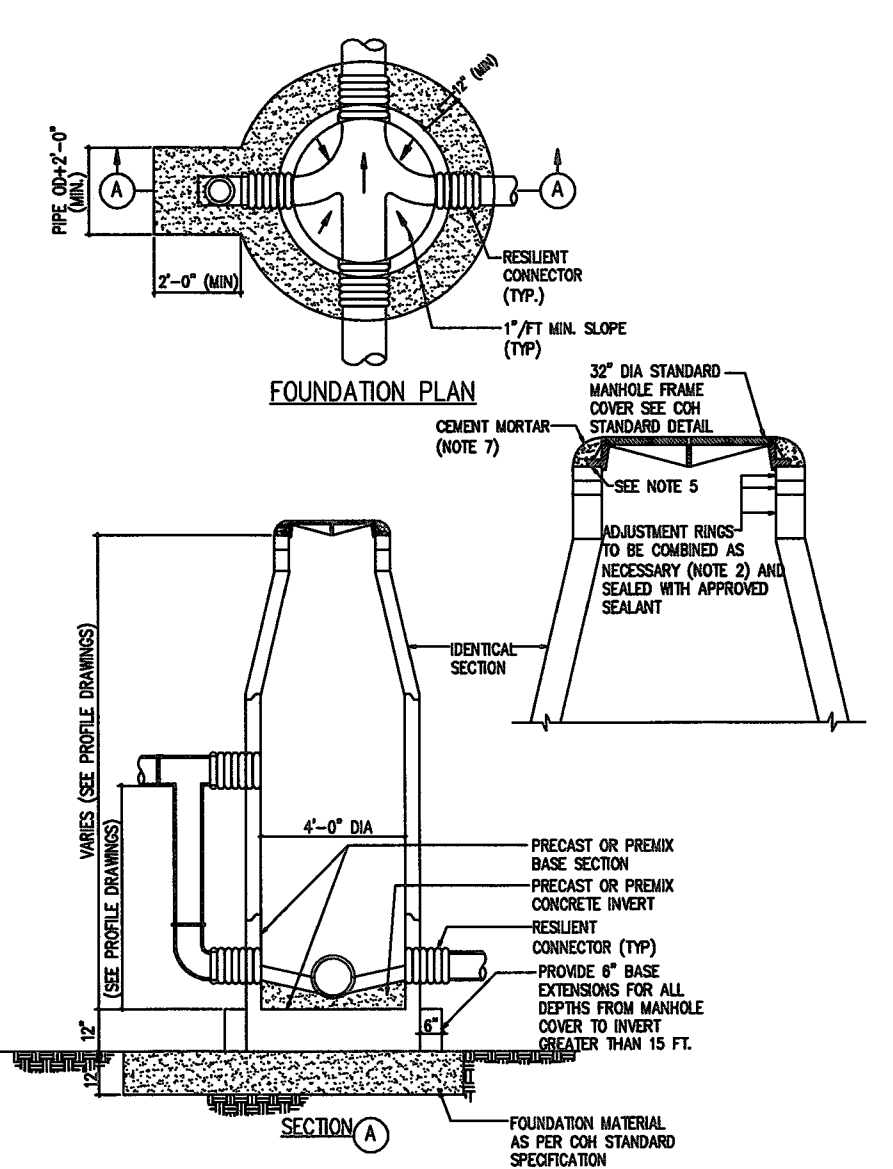
STANDARD SANITARY SEWER SERVICE LEAD DETAIL
(NOT TO SCALE)



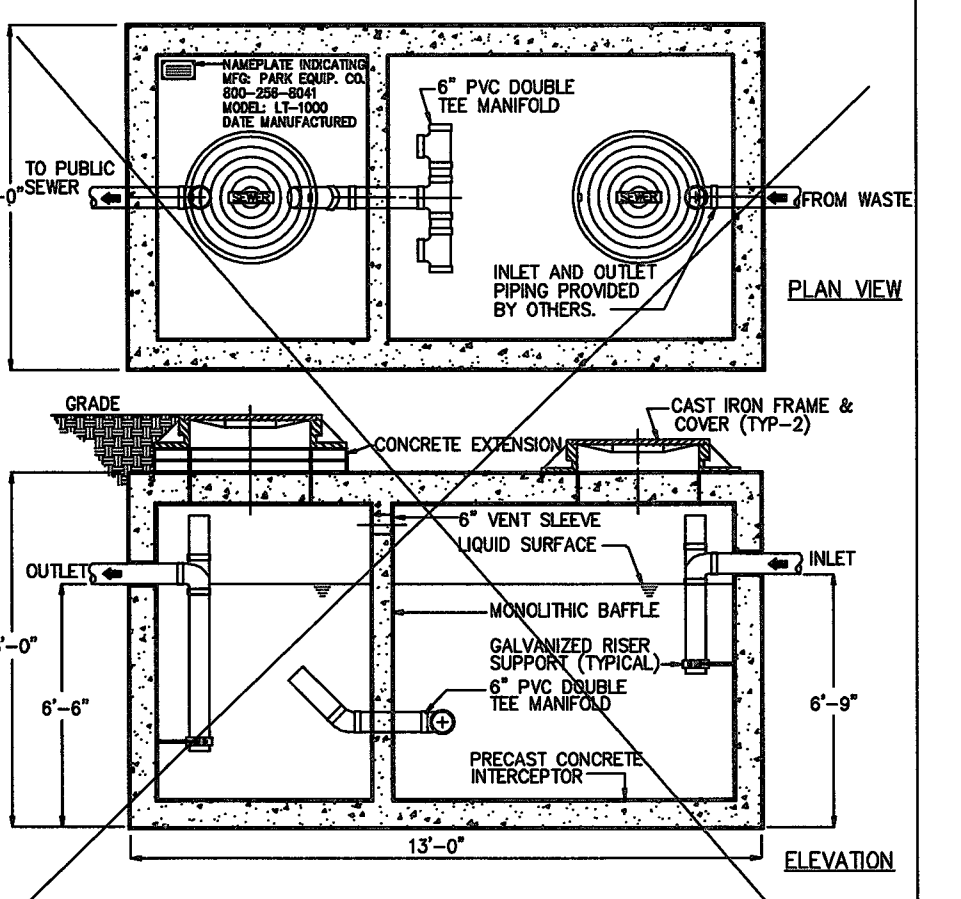
SANITARY SEWER STACK DETAIL
(NOT TO SCALE)



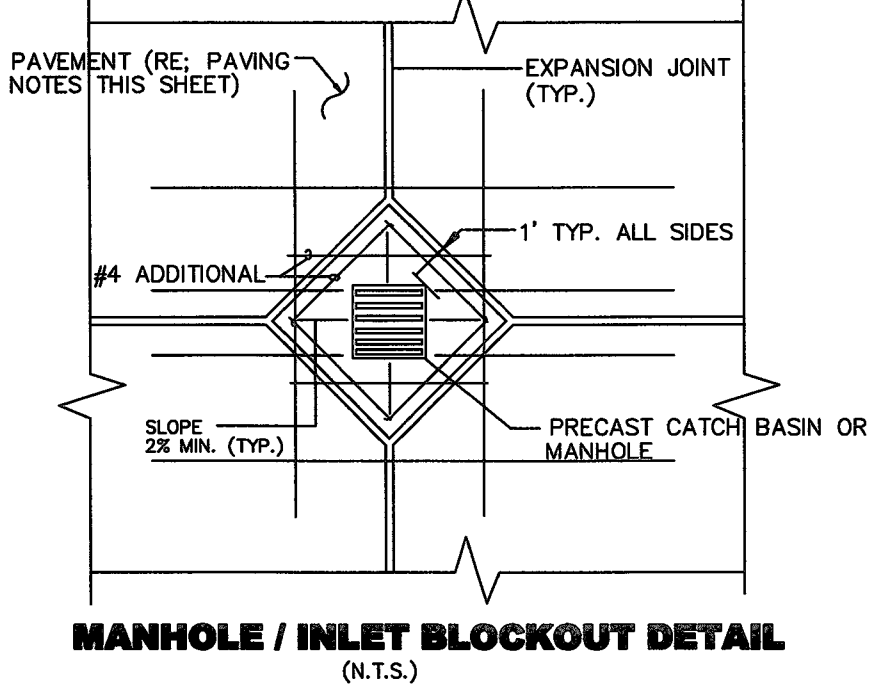
SANITARY/STORM SEWER BEDDING AND BACKFILL
NTS



SANITARY SEWER 4'-0" DIAMETER PRECAST CONCRETE MANHOLE
(NOT TO SCALE)



TYPICAL GREASE TRAP DETAIL
NOT TO SCALE



MANHOLE / INLET BLOCKOUT DETAIL
(N.T.S.)

GENERAL NOTES: SITEWORK
(SEE NOTES CONT'D. EXCEPT AS NOTED OTHERWISE IN PLANS & DETAILS)

- A. EXISTING UTILITIES, FACILITIES & TREES**
- CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION OF PROPOSED FACILITIES. NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
 - CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY 48 HOURS PRIOR TO EXCAVATION NEAR THEIR FACILITIES.
 - CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING FACILITIES FROM DAMAGE. ANY DAMAGE TO EXISTING FACILITIES INCURRED AS A RESULT OF CONSTRUCTION OPERATIONS WILL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
 - CONTRACTOR SHALL TAKE EXTRA CARE TO PROTECT TREES IN AREAS ADJACENT TO CONSTRUCTION.
- B. STORM SEWER SYSTEMS**
- STORM SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH FORTBEND COUNTY SPECIFICATIONS AS CURRENTLY AMENDED.
 - STORM SEWER PIPE SHALL BE HDPE U/LD ON PLANS.
 - SET STORM SEWER MANHOLE RIMS TO MATCH FINISH GRADE.
 - STORM SEWER INLETS SHALL BE PARK EQUIPMENT CATCH BASINS.
 - CONCRETE PIPE SHALL BE BEDDED WITH CEMENT STABILIZED SAND IN ACCORDANCE WITH FORTBEND COUNTY SPECIFICATIONS FOR CONCRETE PIPE.
 - PVC PIPE SHALL BE BEDDED WITH A MINIMUM OF ONE FOOT OF CEMENT STABILIZED SAND. CEMENT STABILIZED SAND SHALL BE LAID IN 6" LIFTS COMPOSED OF 95% STD. PROCTOR MAX. DRY DENSITY (ASTM D998).
 - EXISTING PAVEMENTS, CURBS, SIDEWALKS, AND DRIVEWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO THE FORTBEND COUNTY STANDARDS.
 - CONDITION OF THE ROAD AND/OR RIGHT-OF-WAY, UPON COMPLETION OF JOB, SHALL BE AS GOOD AS OR BETTER THAN THE CONDITION PRIOR TO STARTING WORK.
 - ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY.

C. PAVING & GRADING

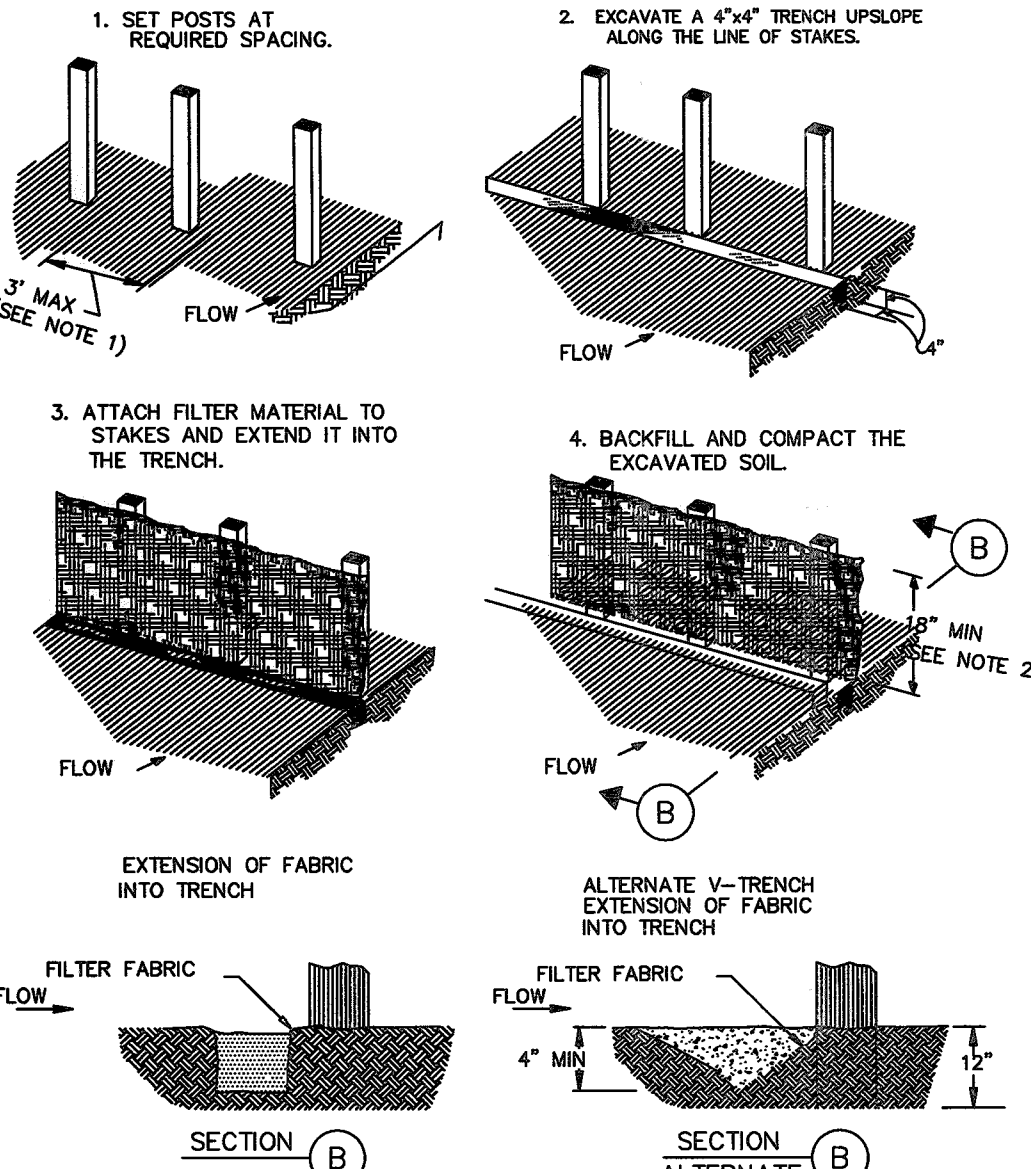
- 1. SURFACE PREPARATION**
- STRIP PAVEMENT AREAS TO REMOVE ALL TOP SOIL, DEBRIS AND VEGETATION. REMOVE TREE STAMPS AND ROOTS.
 - OVER-EXCAVATE SOFT AREAS AND REPLACE WITH SELECT FILL, FREE OF ORGANIC MATTER, WITH PLASTICITY INDEX OF 7 TO 20 AND A MINIMUM LIQUID LIMIT OF 26 PERCENT. FILL SHALL BE PLACED IN 6" (8" TO 8'10") HIGH LOOSE LIFTS AND COMPACTED TO 95% OF STD. PROCTOR (ASTM D998) MAX. DRY DENSITY.
 - PROOF-ROLL TO 95% OF STD. PROCTOR (ASTM D998) MAX. DRY DENSITY.
 - STABILIZE SUBGRADE WITH 6 PERCENT HYDRATED LIME BY DRY WEIGHT OR 27 POUNDS PER SQUARE YARD PER 8 INCH TREATED DEPTH. COMPACT TO 95% OF STD. PROCTOR (ASTM D998) MAX. DRY DENSITY.
- 2. PROVIDE 6" THICK CONCRETE PAVEMENT, U/LD.**
- 3. CONCRETE COMPRESSIVE STRENGTH = 3,000 PSI @ 28 DAYS.**
- 4. REINFORCEMENT: #4 @ 20" EA. WAY. ASTM A615 GRADE 60.**
- 5. REINFORCEMENT SHALL BE SUPPORTED ON METAL OR PLASTIC CHAIRS, AT A MAXIMUM OF FOUR (4) FEET EACH WAY.**
- 6. PROVIDE EXPANSION JOINTS @ 14' MAXIMUM SPACING OF TWENTY (20) FEET EACH WAY. FORM JOINTS WITH METAL KEY WEBS & PROVIDE 3/4" SMOOTH SOLES. 2" @ 20" O.C. SEALS & WEAP ONE END.**
- 7. RECOMMENDED PAVEMENT SLOPE TO DRAIN = 0.50%, BUT IN NO INSTANCE LESS THAN 0.35% OR HIGHER THAN 0.8%.**
- 8. EXCESS SOIL MATERIAL IS THE RESPONSIBILITY OF THE CONTRACTOR & IS TO BE DISPOSED OFFSITE RESPONSIBLY AT NO SEPARATE PAY.**

D. DOMESTIC WATER SYSTEM

- WATER LINE SHALL BE PVC PIPE SCHEDULE 40.
 - WATER LINE SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH FORTBEND COUNTY SPECIFICATION FOR WATER MAIN CONSTRUCTION AS CURRENTLY AMENDED.
 - WATER LINE SHALL HAVE BANK SAND BEDDING AND BACKFILL.
 - PROVIDE THURST BLOCING ACCORDING TO FORTBEND COUNTY STANDARDS & SPECIFICATIONS.
 - PROVIDE A MINIMUM 6-INCHES OF CLEARANCE AT STORM SEWER AND WATER LINE CROSSING.
- E. SANITARY SEWER SYSTEM**
- PVC SANITARY SEWER PIPE SHALL BE SDR 26, AND SHALL HAVE BEDDING AND BACK FILL AS PER DETAIL THIS SHEET.
 - SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH FORTBEND COUNTY SPECIFICATION AS CURRENTLY AMENDED.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR SAFELY SHORING ALL TRENCHES IN EXCESS OF 6'-0" IN DEPTH IN COMPLIANCE W/ OSHA.
 - MANHOLE CLEAN OUTS SHALL BE INSTALLED AT EVERY 60' FEET.
 - POLY-VINYL-CHLORIDE (PVC) PIPE SHALL CONFORM TO ASTM SPECIFICATIONS D3034 AND BE INSTALLED ACCORDING TO ASTM D2321.
 - WATER-ROOT ADAPTERS OF A TYPE COMPATIBLE WITH THE MATERIALS BEING JOINED WILL BE USED AT THE POINT OF CONNECTION OF THE SERVICE LINE TO THE BUILDING PLUMBING.
 - EACH CLEANOUT WILL BE INSTALLED SO THAT IT OPENS IN A DIRECTION OPPOSITE TO THE FLOW OF THE WASTE AND, EXCEPT IN THE CASE OF "WYE" BRANCH AND END-OF-THE-LINE CLEANOUTS.
 - CLEANOUT WILL BE MADE WITH AIRTIGHT MECHANICAL PLUG.

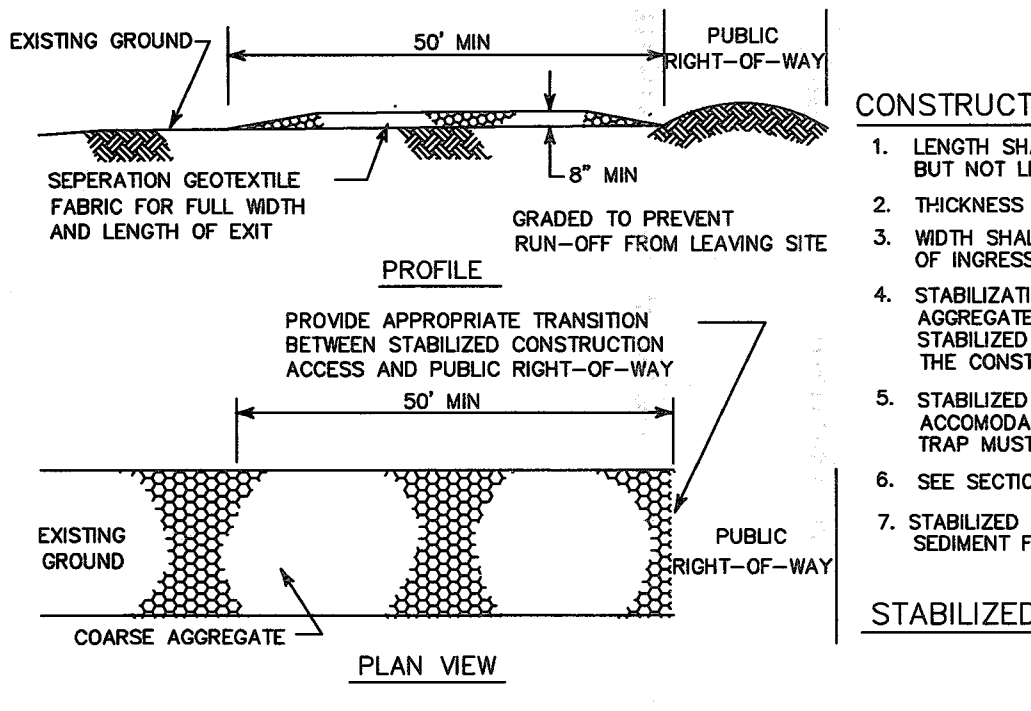
NOTES:

- GROSS WEIGHT IS APPROXIMATELY 13,200 LBS.
- LIQUID CAPACITY = 1,020 GALLONS.
- RETENTION = 2,200 LBS.
- THIS TRAP IS RECOMMENDED FOR FLOW RATES UP TO 28 GPM.
- FIELD EXCAVATION & PREPARATION SHALL BE COMPLETED PRIOR TO DELIVERY OF UNIT TRAP.



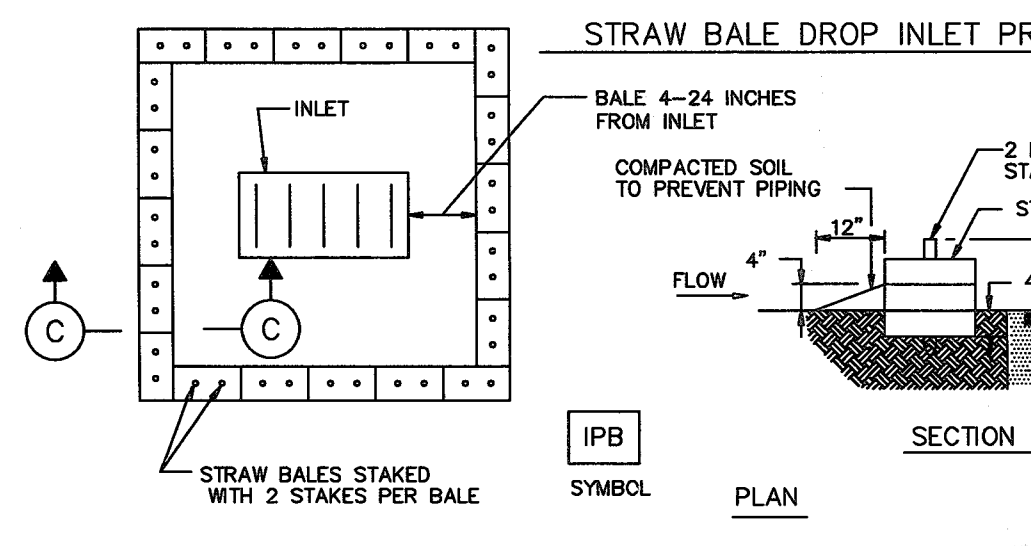
CONSTRUCTION NOTES:

- 2 INCH THICK BY 2 INCH WOODEN STAKES TO BE SET AT MAX SPACING OF 3 FEET AND EMBEDDED A MIN OF 8 INCHES. IF PREASSEMBLED FENCE WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE INCREASED TO 6 FEET MAX.
- ATTACH FILTER FABRIC TO WOODEN STAKES. FILTER FABRIC FENCE SHALL HAVE A MIN HEIGHT OF 18 INCHES AND MAX HEIGHT OF 36 INCHES ABOVE NATURAL GROUND.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHOULD BE OVERLAPPED 6 INCHES AT THE POSTS, AND FOLDED.
- SEE SECTION 01567 - FILTER FABRIC FENCE.



CONSTRUCTION NOTES:

- LENGTH SHALL BE AS SHOWN ON THE CONSTRUCTION DRAWINGS, BUT NOT LESS THAN 50 FEET.
- THICKNESS SHALL BE NOT LESS THAN 8 INCHES.
- WIDTH SHALL BE NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
- STABILIZATION FOR OTHER AREAS SHALL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT, UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION DRAWINGS.
- STABILIZED AREA MAY BE WIDENED OR LENGTHENED TO ACCOMMODATE A TRUCK WASHING AREA. AN OUTLET SEDIMENT TRAP MUST BE PROVIDED FOR THE TRUCK WASHING AREA.
- SEE SECTION 01569 - STABILIZED CONSTRUCTION EXIT.
- STABILIZED CONSTRUCTION EXIT SHALL BE MAINTAINED FREE OF SEDIMENT FOR THE DURATION OF THE PROJECT.



STRAW BALE DROP INLET PROTECTION BARRIER

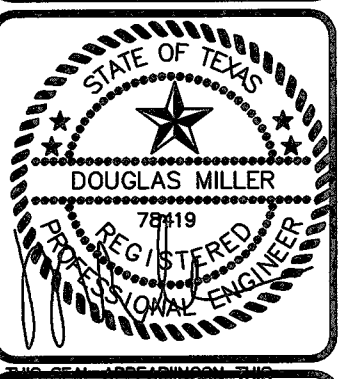
IPB SYMBOL

SUBJECT TO FIELD CORRECTION

REVISIONS	
No.	DATE DESCRIPTION
1	
2	
3	
4	

THIS DRAWING IS PROPERTY OF CLAY ASSOCIATES, LLC AND IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION FROM CLAY ASSOCIATES, LLC.

CONTRACTOR IS RESPONSIBLE FOR ANY DISCREPANCY WITHIN THE PLANS & DISCIPLINES ON FIELD TO CONTACT ENGINEER IMMEDIATELY FOR ADJUSTMENT OR VERIFICATION.

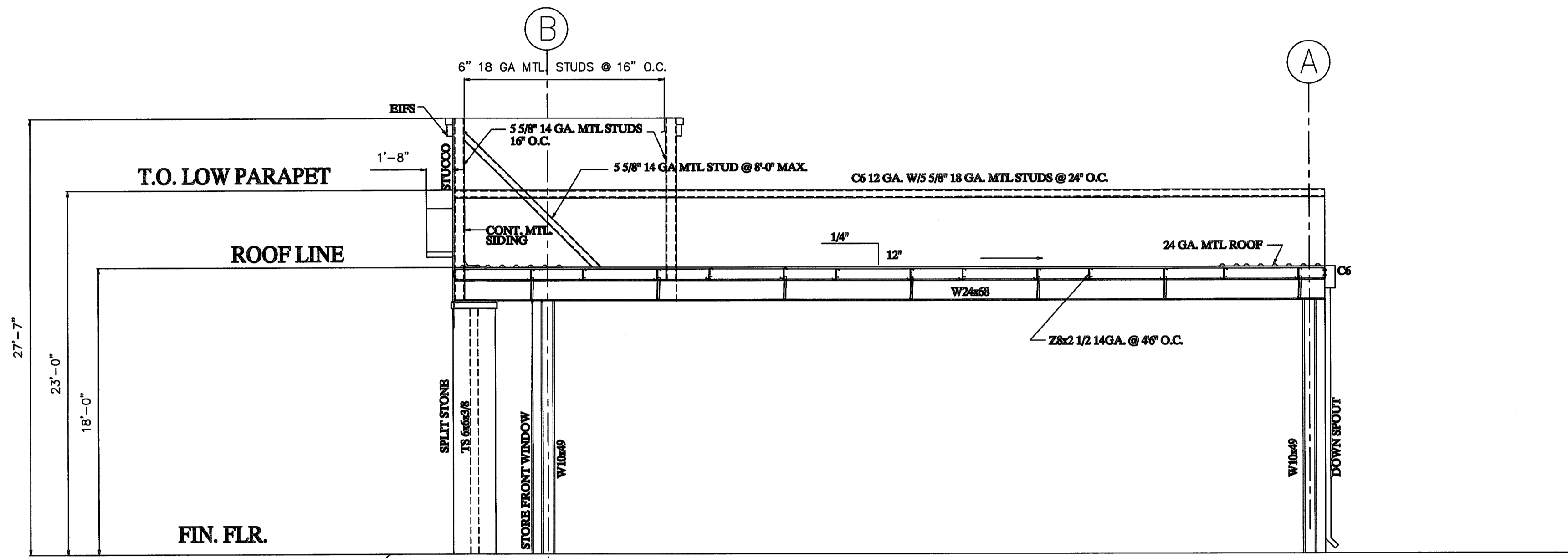


DOCUMENT WAS AUTHORIZED BY DOUGLAS MILLER, P.E., NO. 79419 ON 01-19-17. FPM No. 0657

CLAY ASSOCIATES LLC
REGISTERED PROFESSIONAL ENGINEER
CIVIL ENGINEERING
10000 WEST 17TH STREET, SUITE 100
DENVER, COLORADO 80242

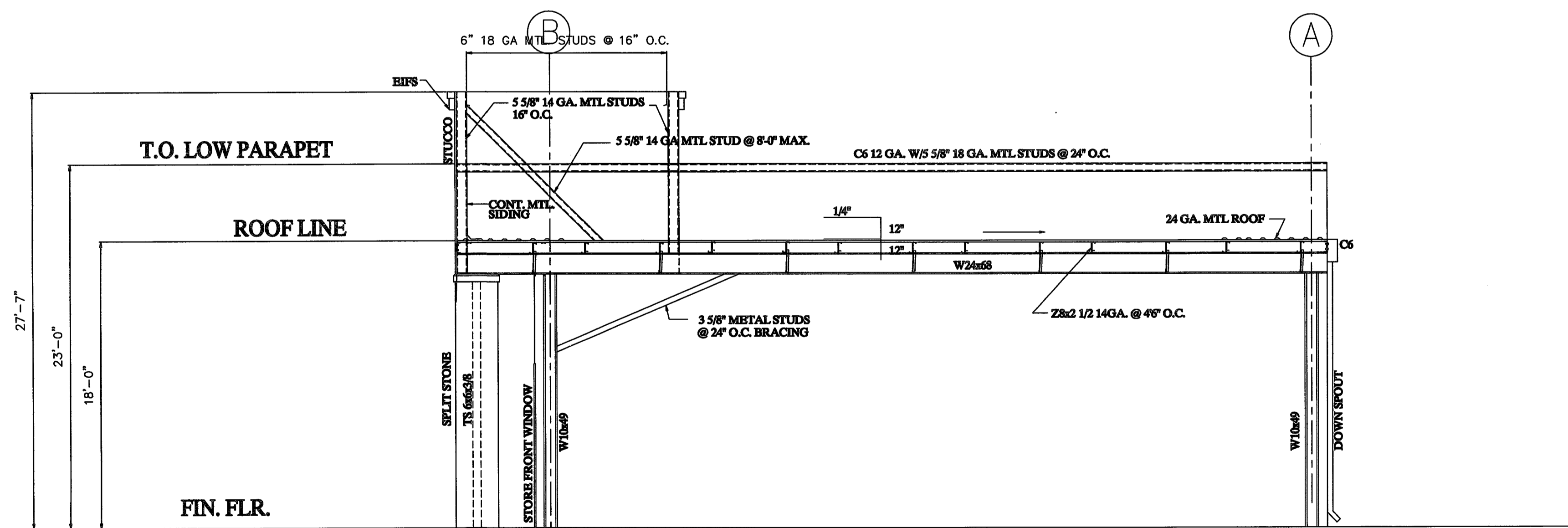
ALLEN GENOA SHOPPING CENTER
CIVIL CONCRETE MISC. DETAILS
2215 ALLEN GENOA
PASADENA TEXAS

DATE: 06-05-18
CHECKED BY: b.clay
DESIGNED BY: B.CLAY
SCALE: NOTED
JOB No: CAE060118
FILE: MCKONG



SECTION 1

SCALE: 3/16"=1'-0" (RE: A-2)



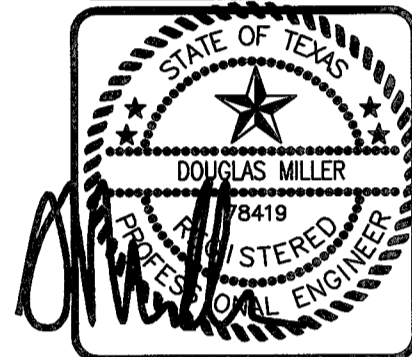
SECTION 2

SCALE: 3/16"=1'-0" (RE: A-2)

SUBJECT TO
FIELD CORRECTION

REVISIONS	
No.	DATE DESCRIPTION
1	
2	
3	
4	

THIS DRAWING IS PROPERTY OF CLAY ASSOCIATES, L.L.C. AND IS NOT TO BE REPRODUCED OR COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION FROM CLAY ASSOCIATES, L.L.C. CONTRACTOR IS RESPONSIBLE FOR ANY DISCREPANCIES ON FIELD TO CONTACT ENGINEER ON RECORD IMMEDIATELY FOR ADJUSTMENT OR REVISION.



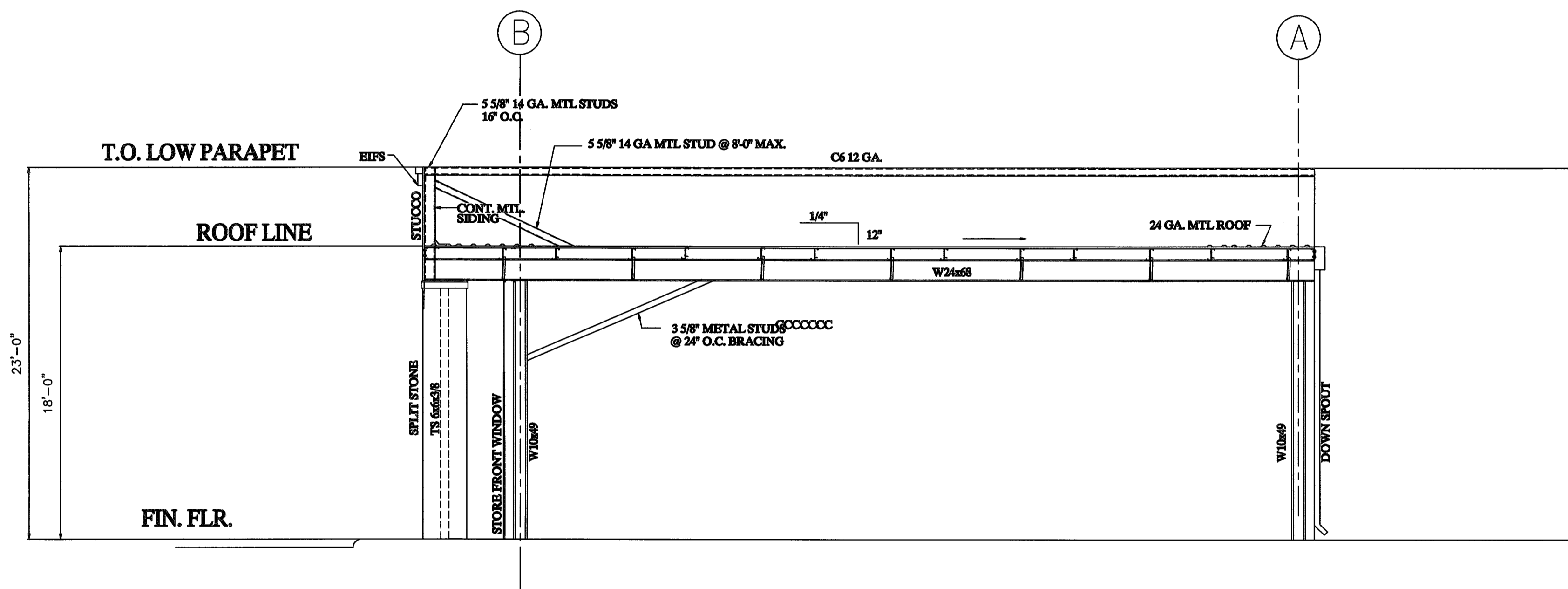
THIS SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DOUGLAS MILLER P.E. NO. 78419 ON 01/17/17 No. 9837

CLAY ASSOCIATES L.L.C.
 2215 N. ALLEN GENOA
 HOUSTON, TEXAS 77058
 PHONE: (281) 288-4777
 EMAIL: clayassociates@clay.com

ALLEN GENOA PLAZA
 STRUCTURAL
 STRUCTURAL SECTIONS
 2215 N. ALLEN GENOA
 HOUSTON TEXAS

DATE: 06-01-18
 CHECKED BY: b.clay
 DESIGNED BY: B.CLAY
 SCALE: NOTED
 JOB No: CAE060118
 FILE: MEKONG

SHEET:
9-2



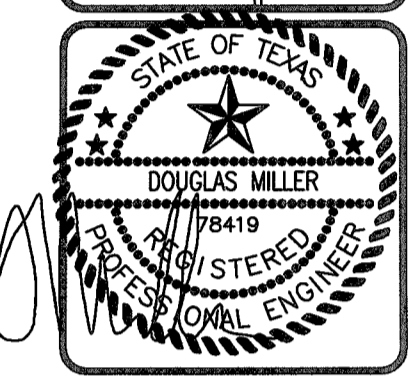
SECTION 3

SCALE: 3/16"=1'-0" (RE: A-2)

SEE PLAN TO FIELD CORRECTIONS

REVISIONS	
No.	DESCRIPTION
1	
2	
3	
4	

THIS DRAWING IS PROPERTY OF CLAY ASSOCIATES AND IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION FROM CLAY ASSOCIATES. CONTRACTOR IS RESPONSIBLE FOR ANY DISCREPANCY ON FIELD TO CONTACT ENGINEER IMMEDIATELY FOR ADJUSTMENT OR VERIFICATION.



THIS SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DOUGLAS MILLER P.E. NO. 78419 ON 06/01/18 FILE NO. 9837

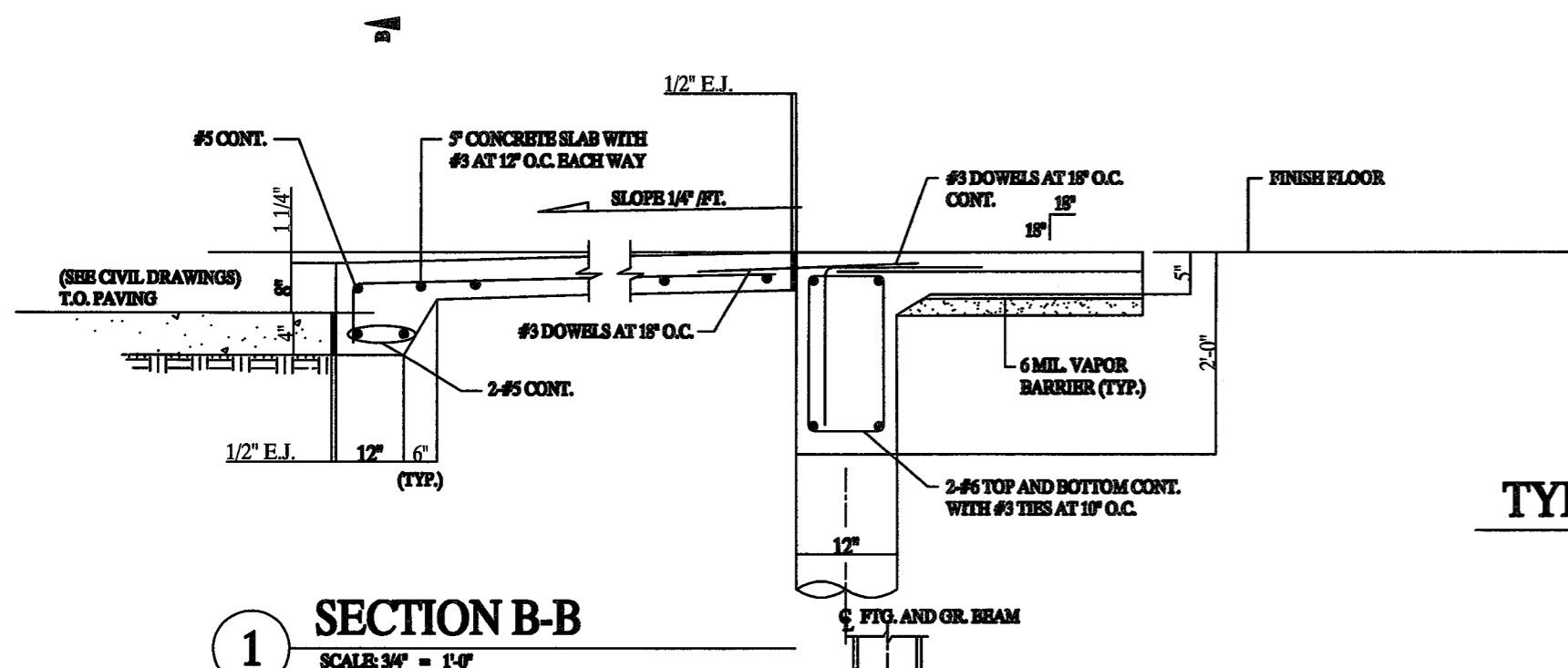
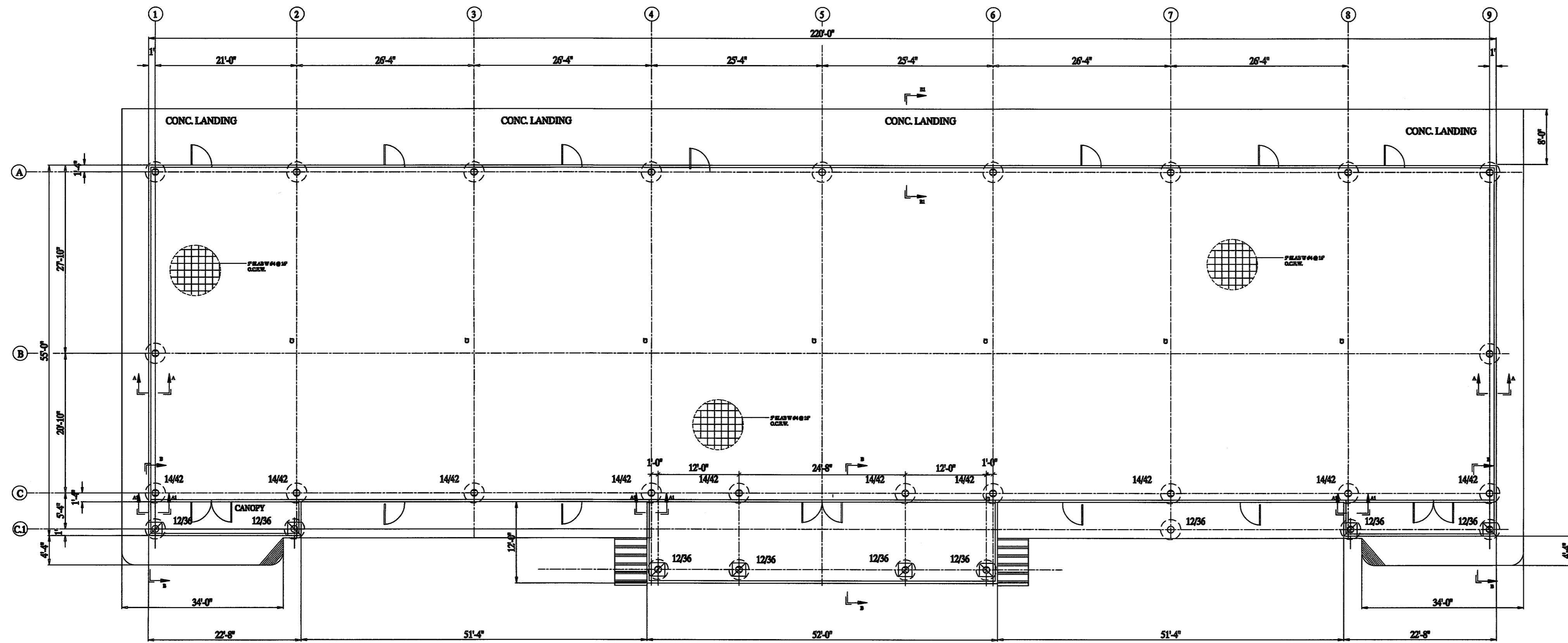
CLAY ASSOCIATES LLC
 1100 WEST 17TH STREET
 PASADENA, TEXAS 77504
 (281) 462-1100
 www.clayassociates.com

ALLEN GENOA PLAZA
 STRUCTURAL BUILDING SECTIONS
 2215 N. ALLEN GENOA ROAD
 PASADENA TEXAS

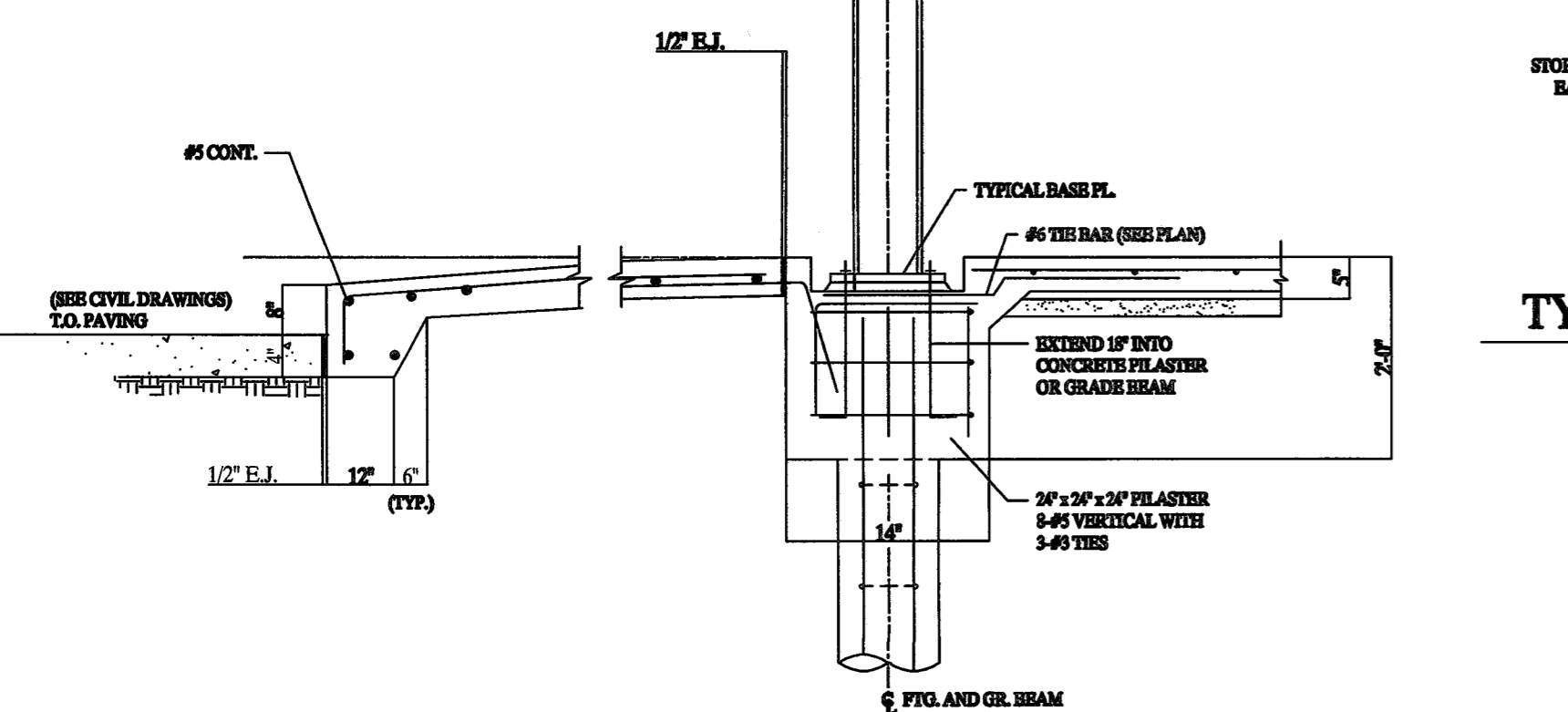
DATE: 06-01-18
 CHECKED BY: b.clay
 DESIGNED BY: B.CLAY
 SCALE: NOTED
 JOB No: CAE010118
 FILE: MEKONG

SHEET:
33

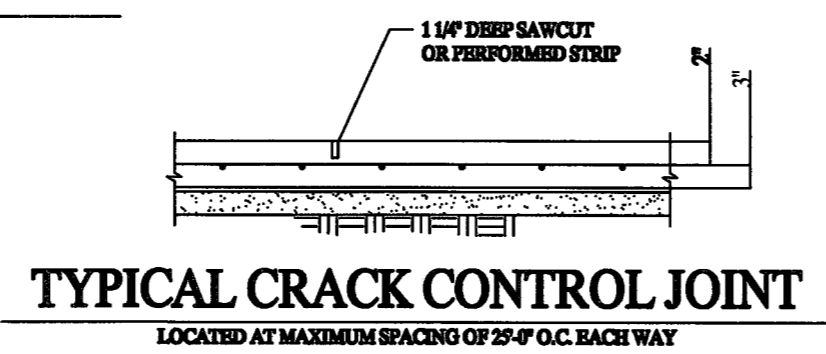
1 OF 1



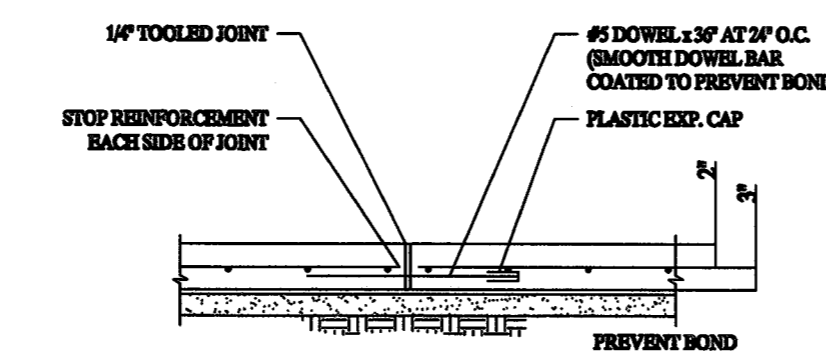
SECTION B-B
SCALE: 3/4" = 1'-0"



SECTION B1-B1
SCALE: 3/4" = 1'-0"

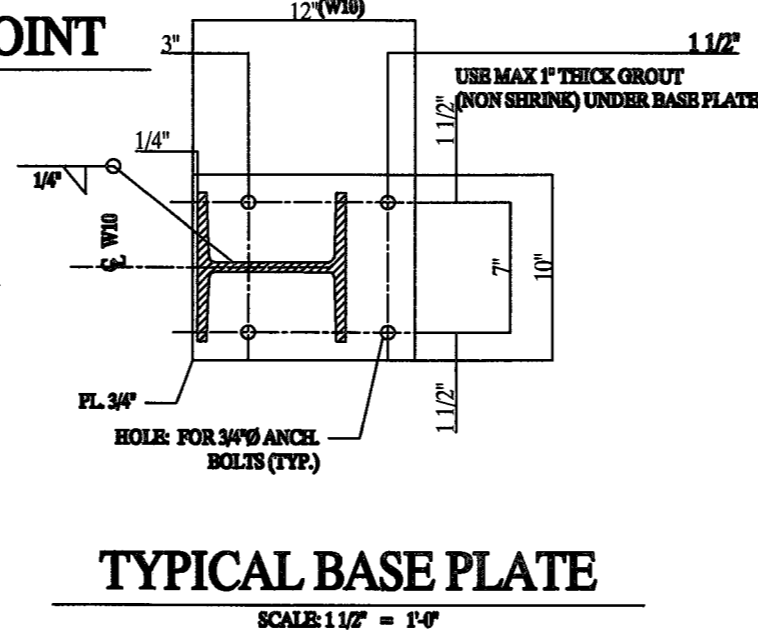


TYPICAL CRACK CONTROL JOINT
LOCATED AT MAXIMUM SPACING OF 25'-0\"/>

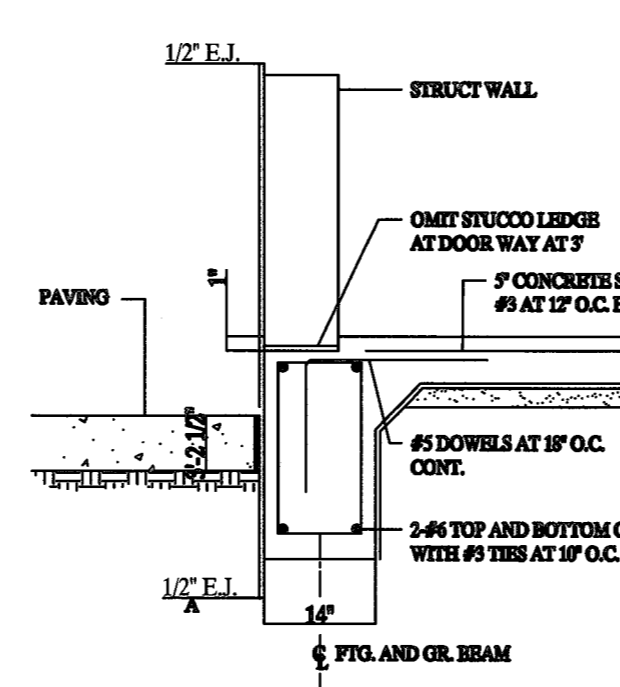


TYPICAL CONSTRUCTION JOINT
EXPANSION JOINT AT PAVEMENT

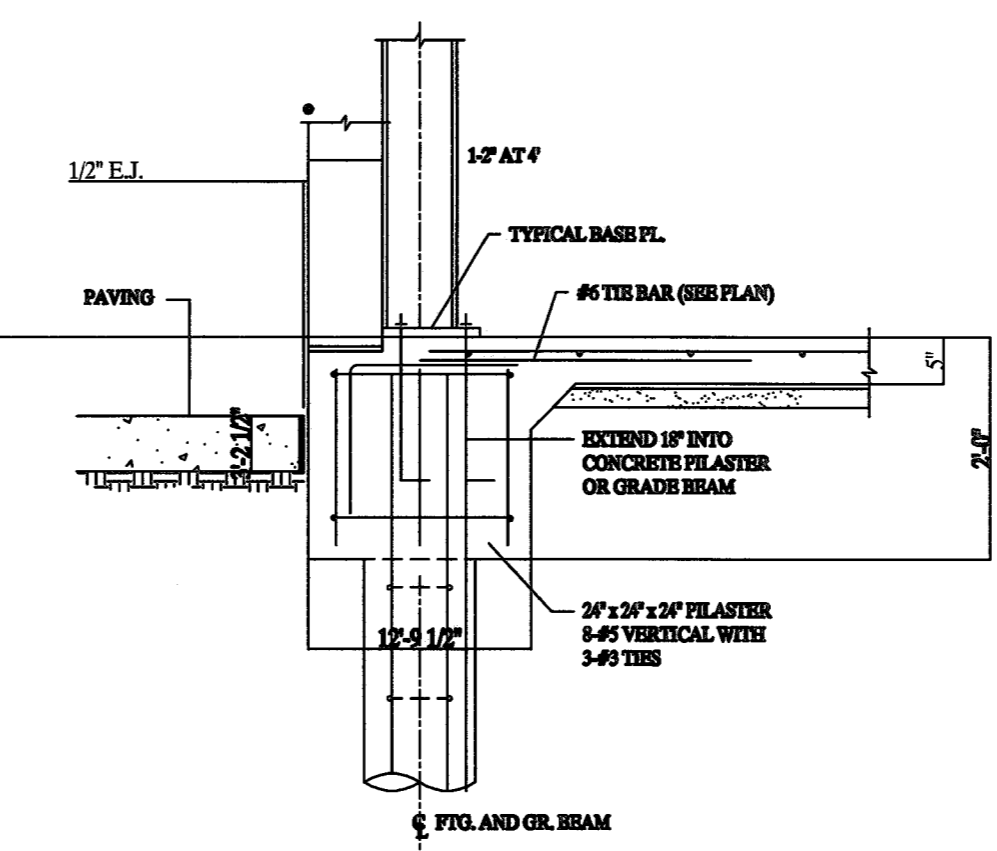
PEIRS REINF. SCHEDULE		
SHAFT/BELL	VERTICAL REINF.	HORIZONTAL TIES
12/36	4 # 4	# 3 AT 16"
14/42	4 # 5	# 3 AT 16"



TYPICAL BASE PLATE
SCALE: 1/2" = 1'-0"

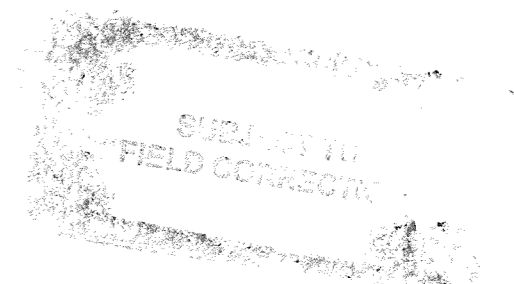


SECTION A-A
SCALE: 3/4" = 1'-0"



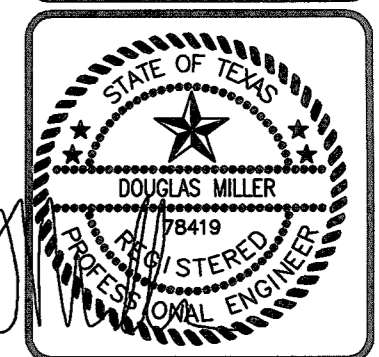
SECTION A1-A1
SCALE: 3/4" = 1'-0"

- GENERAL NOTES - CONCRETE
- VERIFY ALL DIMENSIONS AND ELEVATIONS OF RECES, LEDGES AND STEPS WITH ARCHITECT BEFORE COMMENCEMENT OF FORM WORK.
 - NO CONCRETE IS TO BE PLACED WITHOUT APPROVAL FROM ENGINEER OR ARCHITECT.
 - CONCRETE SHALL NOT BE PLACED IN FREEZING OR RAINY WEATHER.
 - ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 308 WITH LATEST REVISIONS.
 - CRUSHED STONE AND GRAVEL CONCRETE SHALL HAVE MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI.
 - ALL CONCRETE EXPOSED TO WEATHER SHALL BE AIR ENTRAINED.
 - REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 WITH PASS DEFORMATIONS, DETAILS, FABRICATED AND INSTALLED PER AIA "HANKS" OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE, ACI-308 LATEST REVISION.
 - WELDED SMOOTH WIRE FABRIC SHALL CONFORM TO ASTM-A955.
 - REINFORCING STEEL MINIMUM COVERAGE UNLESS NOTED ON REBAR CHAIRS SHALL BE:
 - FOOTINGS: 3" BOT., 3" SIDES & 2" TOP
 - CHAMFER ALL EXPOSED EDGES 3/4" AT 45 DEGREES.
 - HOLDS FOR BILLED FOOTINGS SHALL BE PLUMB AND FREE OF ALL LOOSE MATERIALS AND WATER. CONCRETE AND REINFORCING SHALL BE PLACED IMMEDIATELY AFTER EXCAVATION.
 - PROVIDE CONCRETE MADE IN THE OUTSIDE FACE OF EXTERIOR GRADE BEAMS TO MATCH THE HORIZONTAL STEEL, AT ALL RE-ENTRY CORNERS PLACE 2 - # 4 x 4'-0" IN THE SLAB.
 - UNDERGROUND UTILITIES OR OBSTRUCTIONS ENGINEERED SHALL BE REMOVED, RELOCATED OR LEFT IN PLACE AS DIRECTED BY ENGINEER.
 - BARNS DETAILED AS CONTINUOUS SHALL BE LAPPED AS SHOWN SHOWN AT SPICES. THE SPICES SHALL OCCUR AT MIDSPAN FOR TOP BARS AND OVER THE SUPPORTS FOR BOTTOM BARS.
 - ALL CONSTRUCTION SHALL CONFORM TO CURRENT CITY OF PASADENA BUILDING CODE, (THE LATEST EDITION OR IBC).
 - FOOTING DESIGN BASED ON ALLOWABLE SOIL BEARING PRESSURE OF 4000 PSF FOR TOTAL DEAD AND LIVE LOAD AT DEPTH OF ---
 - THE GENERAL CONTRACTOR SHALL EXAMINE THE MECHANICAL DRAWINGS FOR REQUIRED MECHANICAL WORK TO BE PLACED IN CONCRETE. THIS CONTRACTOR SHALL VERIFY AND RECEIVE PERMISSION FROM THE STRUCTURAL ENGINEER FOR THE PLACING OF SLEEVES, PIPES OR OTHER MATERIALS.
 - ALL REBAR CHAIRS THROUGH EXTERIOR GRADE BEAMS SHALL BE SLEAVED. ALL PIPES SHALL BE LOCATED AT MID DEPTH OF GRADE BEAM.
 - SIZE OF SLEEVES SHALL NOT EXCEED 1/2 OF OVERALL THICKNESS OF GRADE BEAM. SPACING OF SLEEVES SHALL NOT BE CLOSER THAN 3 DIAMETERS ON CENTER.
 - THE ENGINEER SHALL NOT BE LIABLE FOR ANY FOUNDATION REVISION OR CHANGES FROM THE ARCHITECT, CONTRACTOR OR OWNERS WITHOUT WRITTEN APPROVAL FROM THE ENGINEER.
 - CURE ALL CONCRETE IMMEDIATELY AFTER FINISHING WITH APPROVED CHEMICAL CURED COMPOUND.



REVISIONS	
NO.	DATE DESCRIPTION
1	
2	
3	
4	

THIS DRAWING IS PROPERTY OF CLAY ASSOCIATES AND IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF CLAY ASSOCIATES. CONTRACTOR IS RESPONSIBLE FOR ANY DISCREPANCY IN FIELD TO CONTACT ENGINEER IMMEDIATELY FOR ADJUSTMENT OR VERIFICATION.



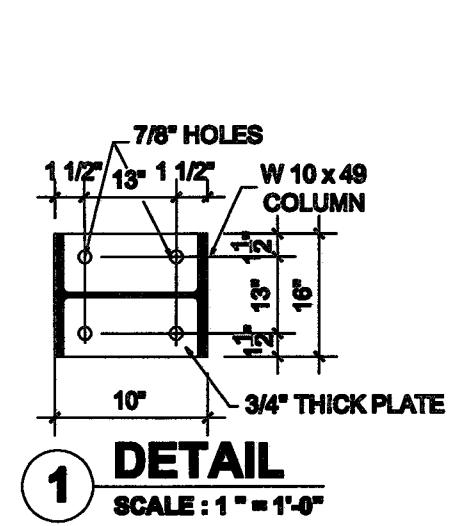
THIS SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DOUGLAS MILLER P.E. NO. 78419 IN 06/02/18 BY No. 9837

CLAY ASSOCIATES LLP
1000 WEST 17TH STREET
PASADENA, TEXAS 77504
PH: 281.233.8888
WWW.CLAYASSOCIATES.COM

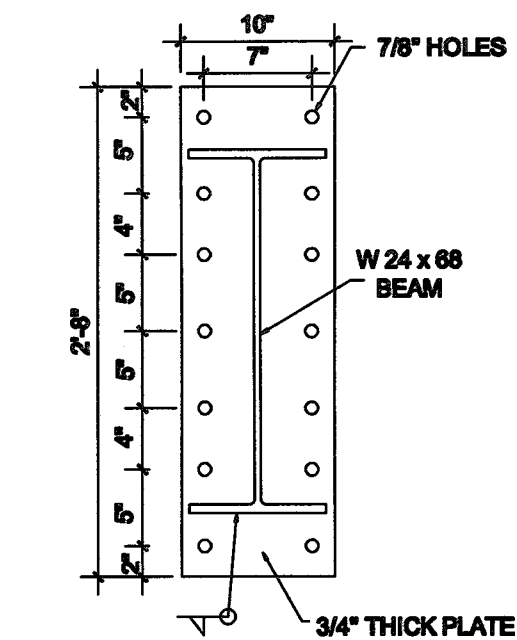
ALLEN GENOA SHOPPING PLAZA
STRUCTURAL FOUNDATION PLAN AND DETAILS
2215 ALLEN GENOA ROAD
PASADENA TEXAS

DATE: 06-02-18
CHECKED BY: b.clay
DESIGNED BY: B.CLAY
SCALE: NOTED
JOB No.:
FILE: MEKONG

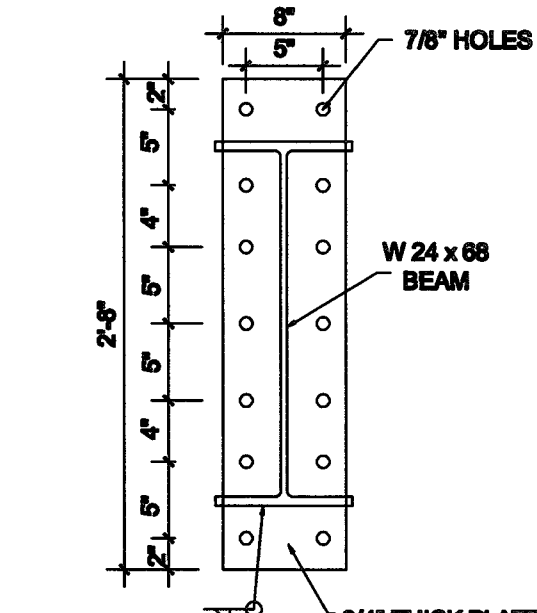
SHEET: 4
1 OF 1



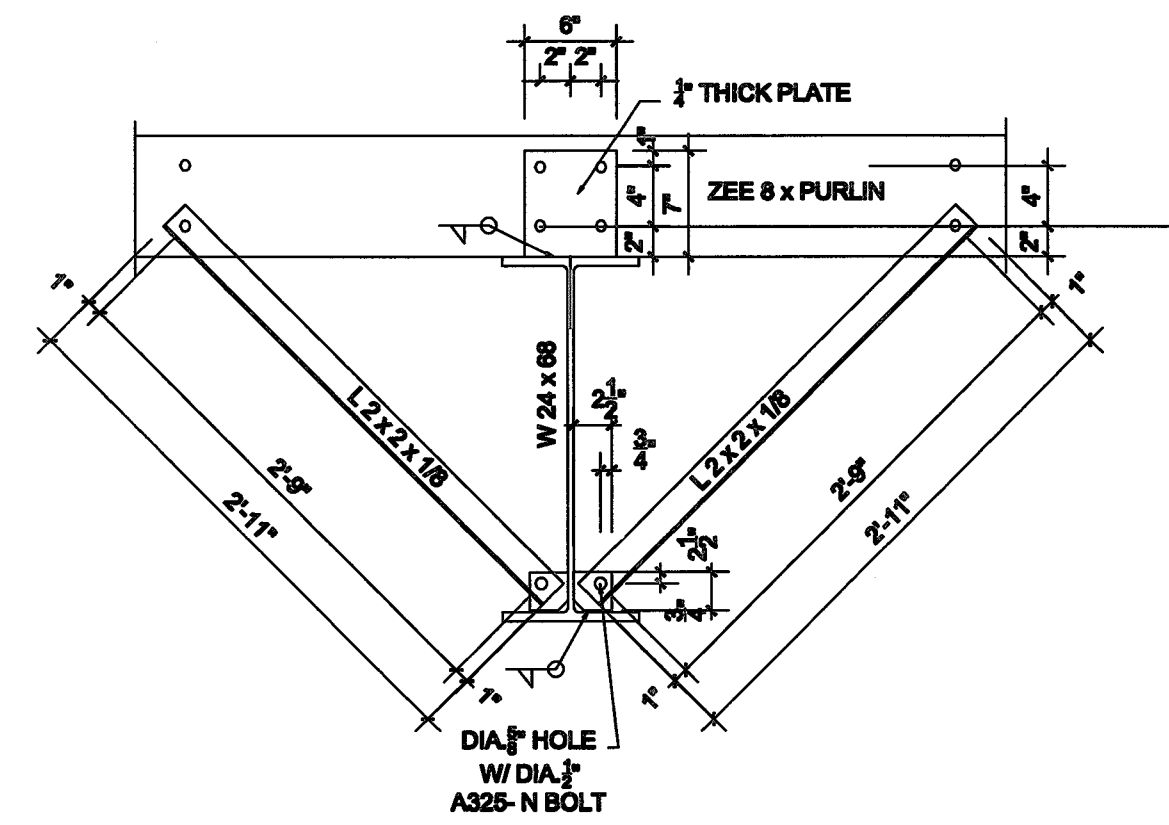
1 **DETAIL**
SCALE: 1" = 1'-0"



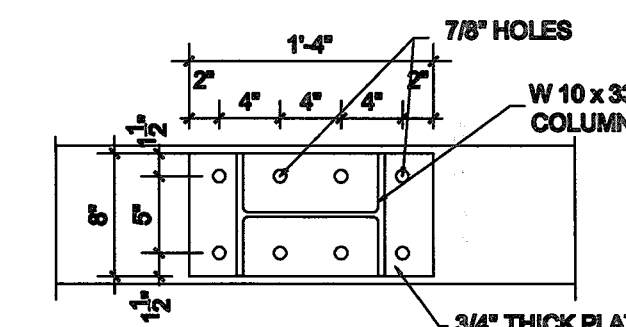
2 **CONNECT PLATE**
SCALE: 1" = 1'-0"



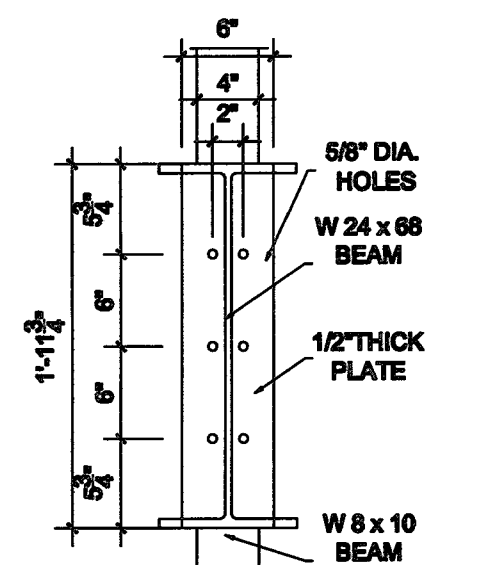
2A **CONNECT PLATE**
SCALE: 1" = 1'-0"



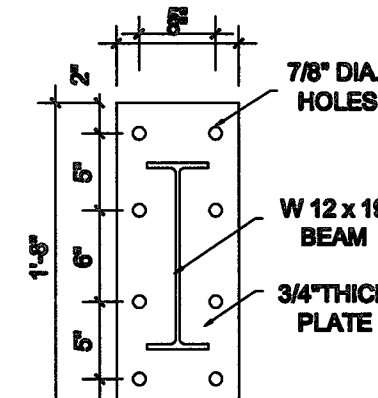
3 **BRACE BY ANGLE 2" x 2" x 1/8"**
SCALE: 1" = 1'-0" 49 SETS



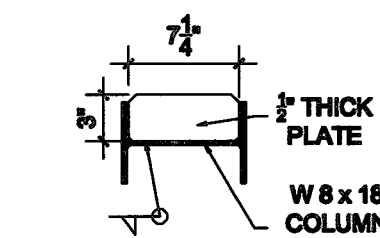
5 **DETAIL**
SCALE: 1" = 1'-0" 9 PCS



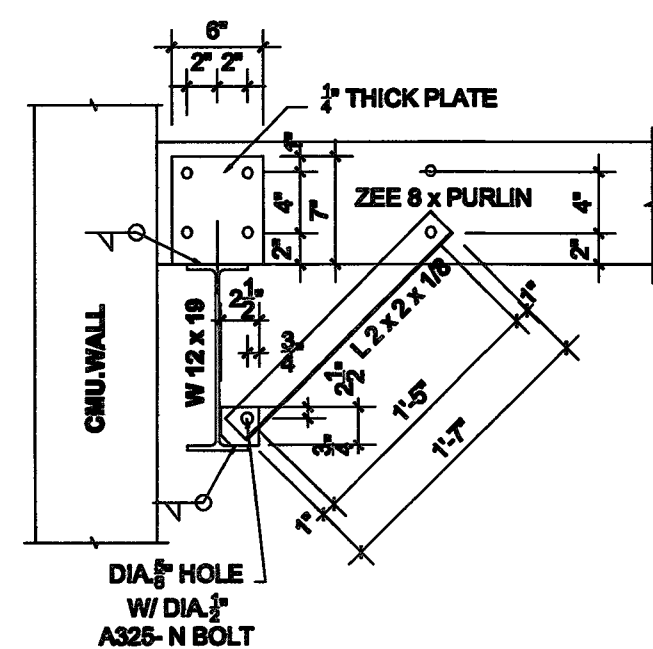
7 **CONNECT PLATE**
SCALE: 1" = 1'-0"



9 **CONNECT PLATE**
SCALE: 1" = 1'-0"



9a **PLAN**
SCALE: 1" = 1'-0" 4 PCS



11 **BRACE @ BEAM W 12 x 19**
SCALE: 1" = 1'-0" 12 SETS

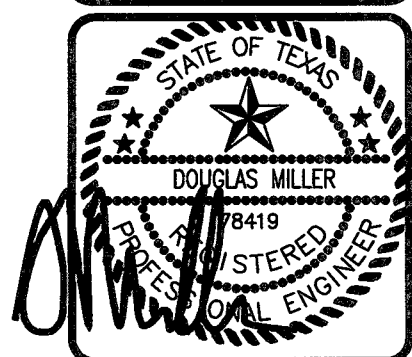
STRUCTURAL STEEL NOTES

- ALL STRUCTURAL STEEL SHALL BE FABRICATED FROM STANDARD HOT ROLLED STRUCTURAL SHAPES PER A.I.S.C. SPECIFICATIONS (LATEST REVISIONS)
- CONSTRUCTION TO BE ALL WELDED UNLESS NOTED OTHERWISE.
- ALL WELDS SHALL CONFORM TO WITH A.I.S.C. & A.W.S. STANDARD WELDING SPECIFICATIONS (LATEST REVISION).
- ALL WELDED CONNECTIONS TO BE CONTINUOUS WELDED WITH 3/16" MINIMUM WELD (U.N.O.)
- ALL STRUCTURAL STEEL SHALL BE CLEANED THOROUGHLY OF ALL REMOVABLE SCALE, DIRT, RUST WELDING SLAG AND OTHER FOREIGN MATERIAL, BEFORE PRIMING
- STEEL TO BE PAINTED WITH ONE COAT RED OXIDE PRIMER OR APPROVED EQUAL.
WIND LOAD = 140 MPH
DL = 20 PSF LL = 20 PSF L/240 = DD, L/360 = DL STEEL = A 50
- ALL BOLTS TO BE 3/4" H.S.B.
- ALL GUSSET AND STIFFNER PLATES ARE TO BE 3/8" THICK UNLESS NOTED OTHERWISE.
- ALL CONNECTIONS NOT DETAILED SHALL BE STANDARD SHEAR CONNECTIONS IN ACCORDANCE WITH A.I.S.C. MANUAL OF STEEL CONNECTION LATEST EDITION AND FRAMED BEAM CONNECTION TABLES.

SUBJECT TO FIELD CORRECTION

REVISIONS	
No.	DESCRIPTION
1	
2	
3	
4	

THIS DRAWING IS PROPERTY OF CLAY ASSOCIATES, L.L.C. NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART OR USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION FROM CLAY ASSOCIATES. CONTRACTOR IS RESPONSIBLE FOR ANY DISCREPANCIES ON FIELD TO CONTACT ENGINEER ON RECORD IMMEDIATELY FOR ADJUSTMENT OR VERIFICATION.



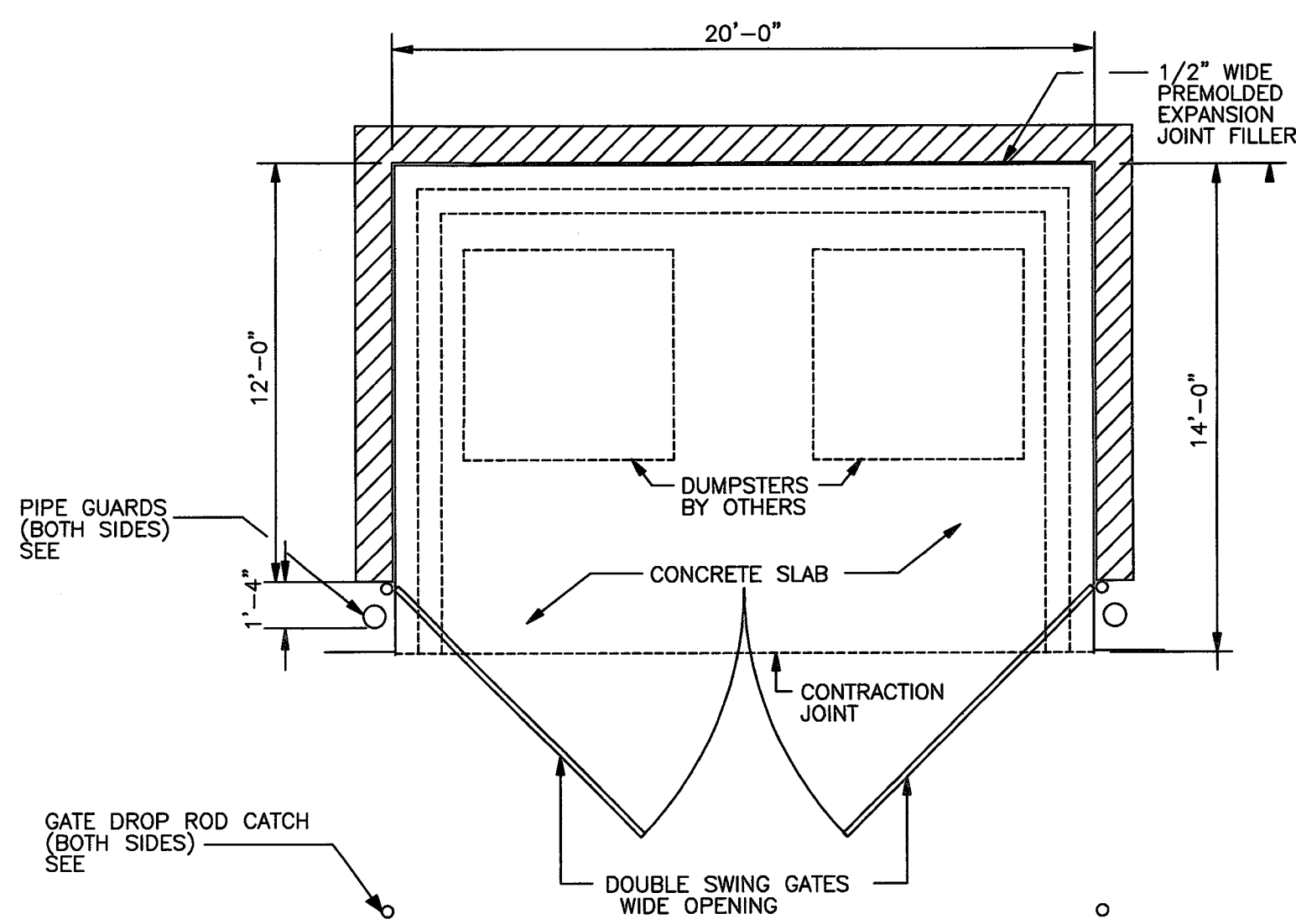
THIS SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DOUGLAS MILLER P.E. NO. 78419 ON 01/30/17 No. 9837

CLAY ASSOCIATES L.L.C.
STRUCTURAL STEEL DESIGN
OFFICE (281) 288-4774
www.clayassociates.com

ALLEN GENOA SHOPPING PLAZA
STRUCTURAL
DETAILS
2215 ALLEN GENOA ROAD
HOUSTON TEXAS

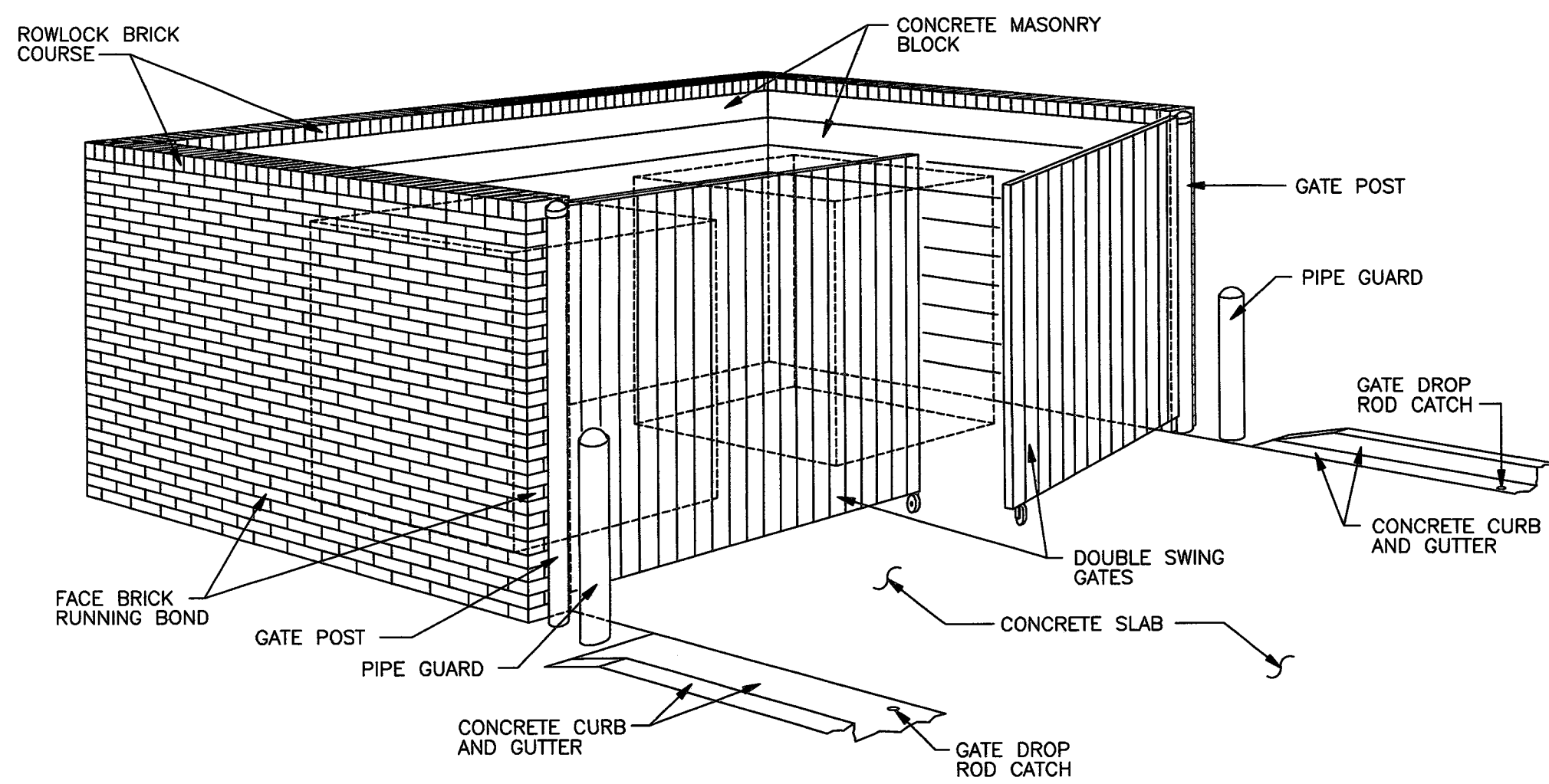
DATE: 06-01-18
CHECKED BY: b.clay
DESIGNED BY: B.CLAY
SCALE: NOTED
JOB No: CAE060118
FILE: MCKONG

SHEET: **S5**



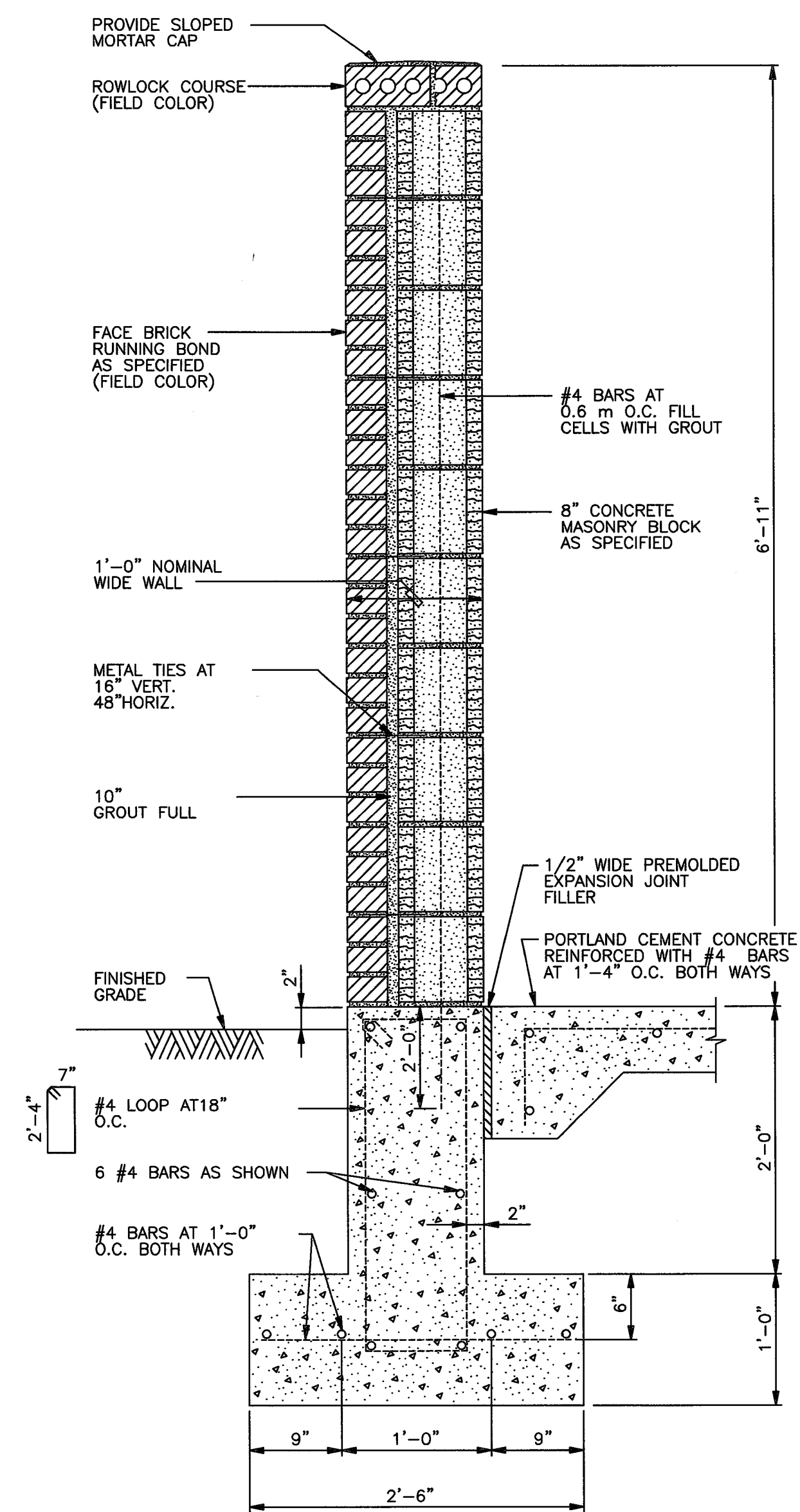
DUMPSTER ENCLOSURE PLAN

SCALE



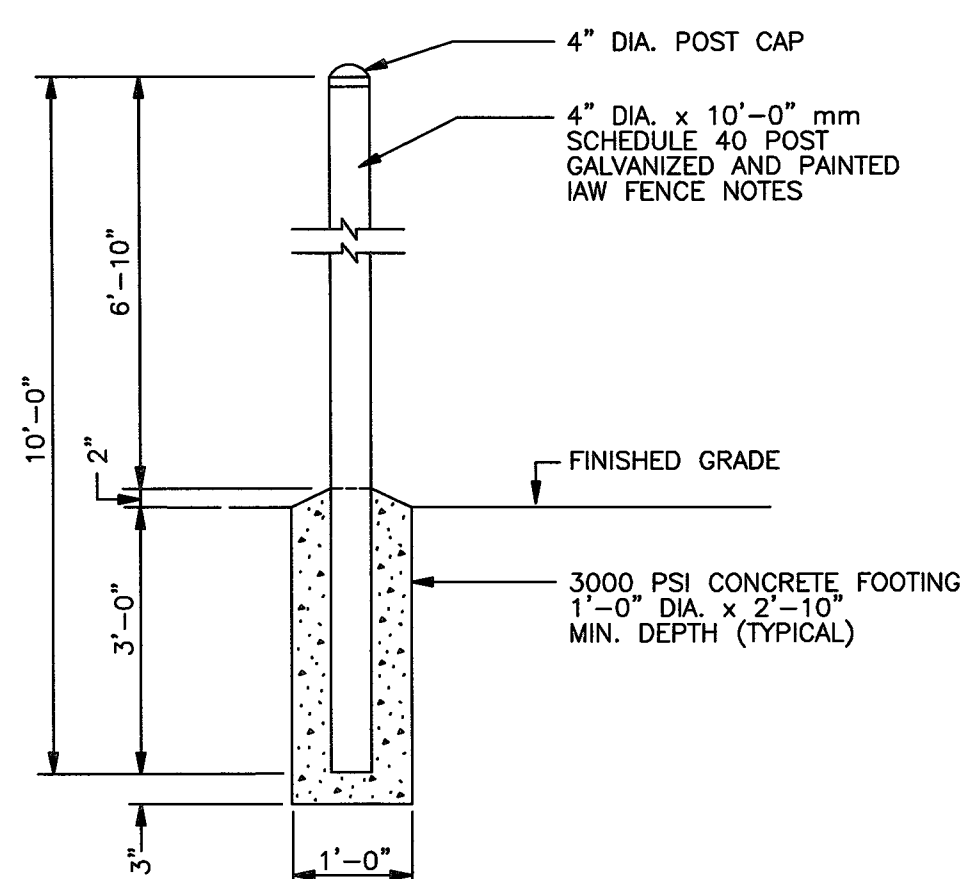
DUMPSTER ENCLOSURE

NO SCALE



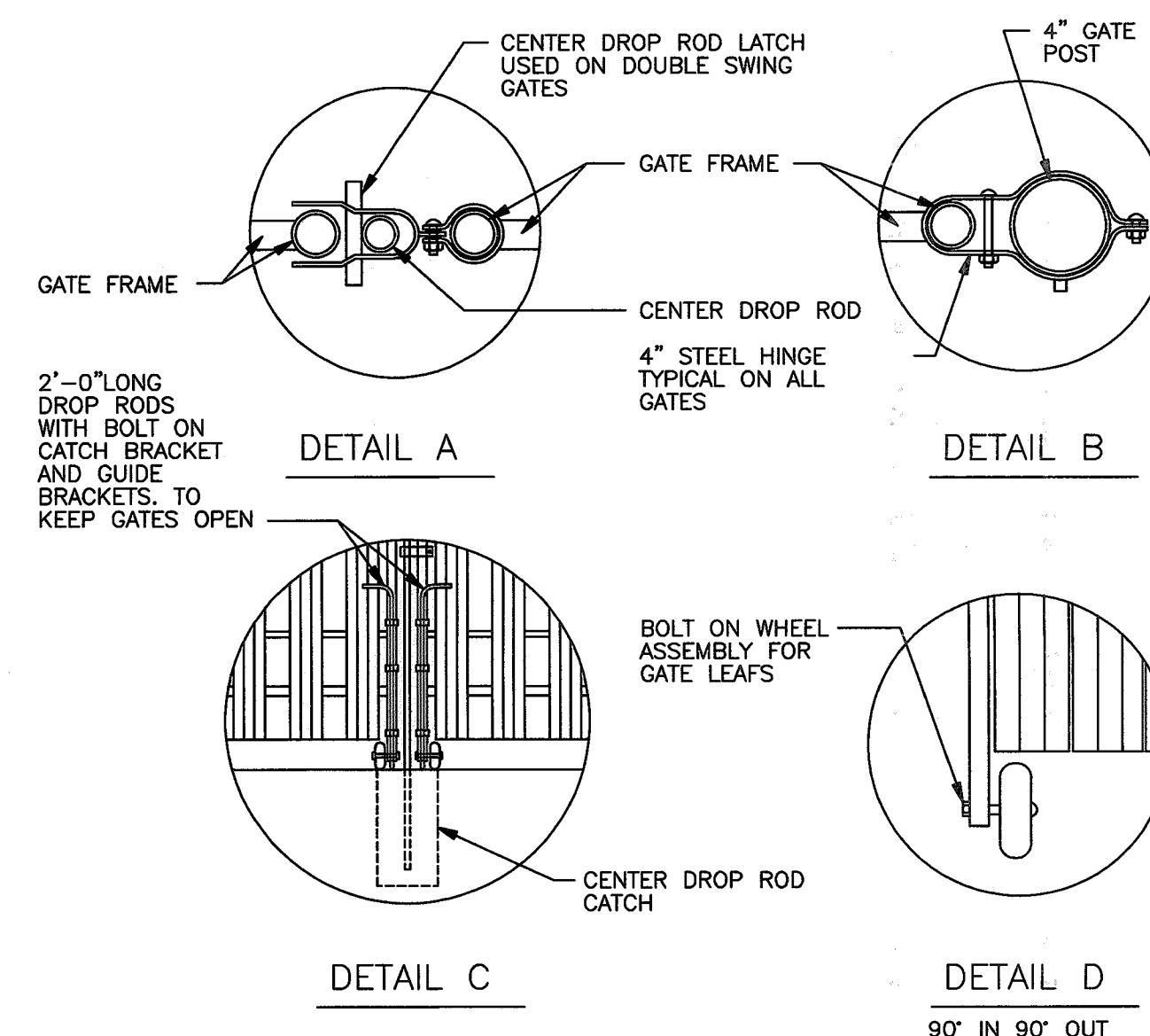
BRICK WALL DETAIL

SCALE



TYPICAL GATE POST DETAIL

NO SCALE



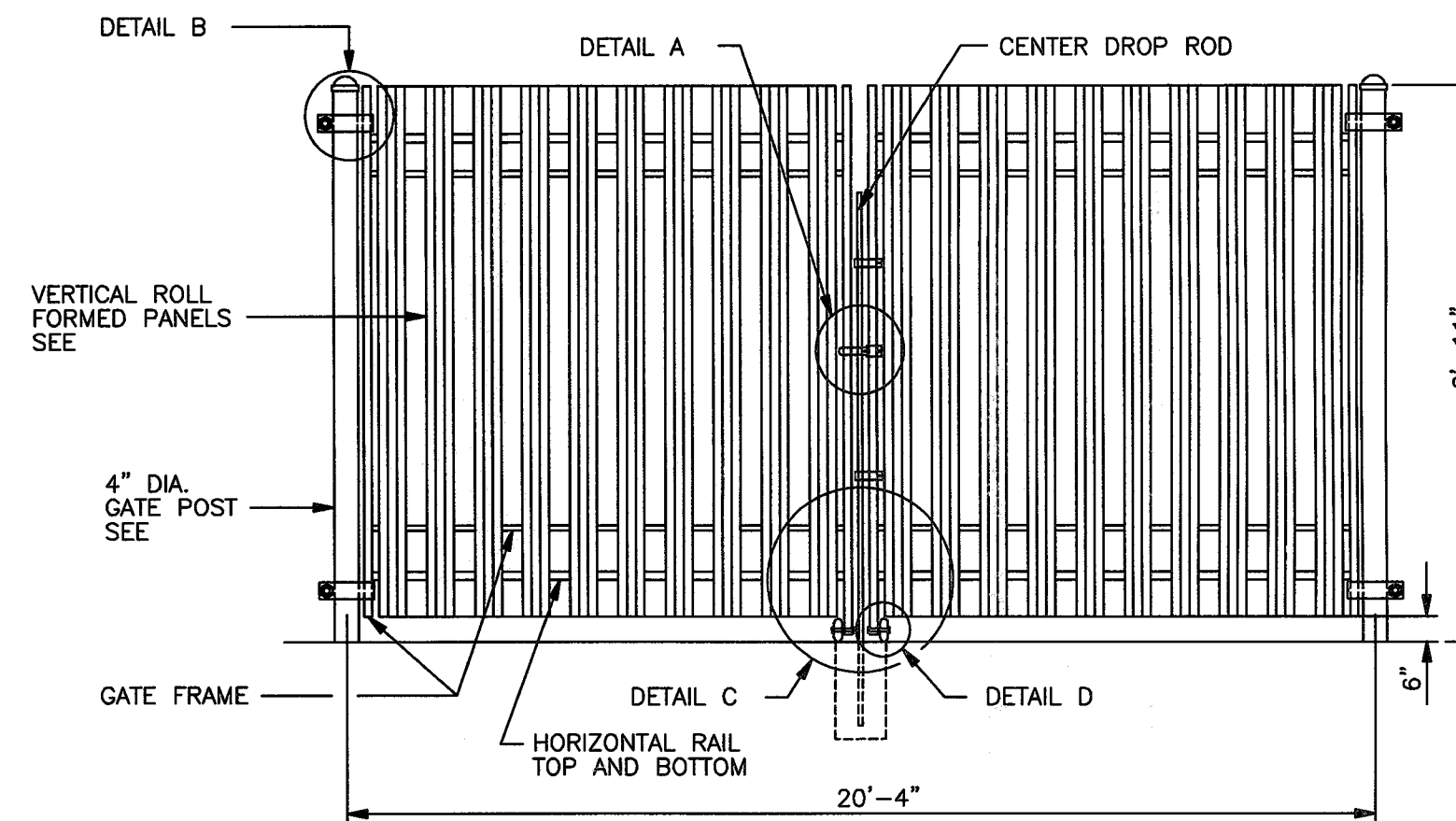
DETAIL A

DETAIL B

DETAIL C

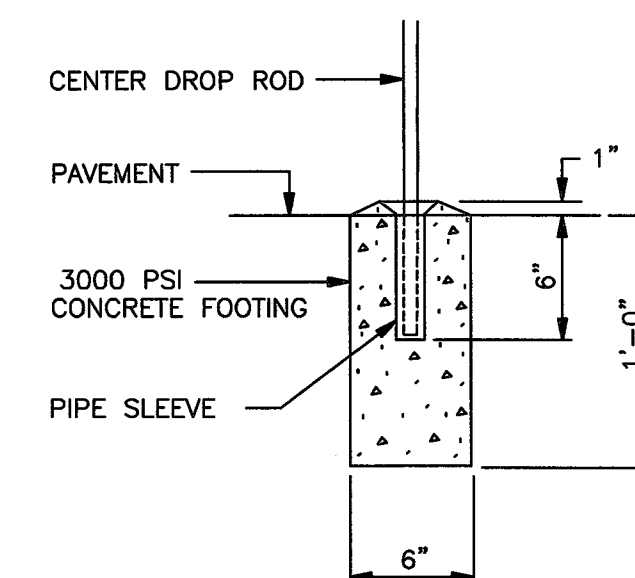
DETAIL D

90° IN 90° OUT

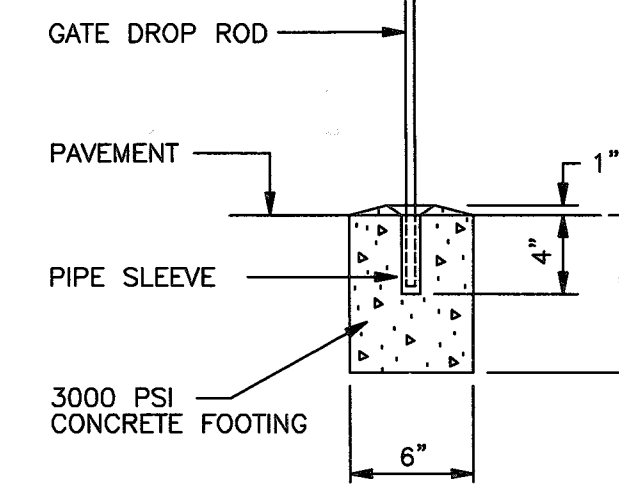


DOUBLE SWING GATE DETAILS

NO SCALE



CENTER DROP ROD



GATE DROP ROD

DROP ROD CATCH FOOTING DETAILS

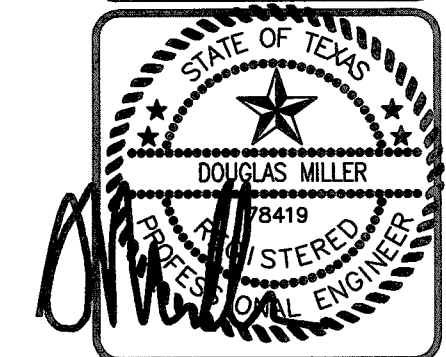
NO SCALE

SUBJECT TO FIELD CORRECTION

REVISIONS	
NO.	DATE DESCRIPTION
1	
2	
3	
4	

THIS DRAWING IS PROPERTY OF CLAY ASSOCIATES AND IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT WRITTEN PERMISSION FROM CLAY ASSOCIATES.

CONTRACTOR IS RESPONSIBLE FOR ANY DISCREPANCY WITH THE PLANS & DISCIPLINES ON FIELD TO CONTACT ENGINEER IMMEDIATELY FOR ADJUSTMENT OR VERIFICATION.



THIS SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DOUGLAS MILLER P.E. NO. 78419 ON 06/02/18. No. 9837

CLAY ASSOCIATES LLC
 STRUCTURAL ENGINEERS
 2215 ALLEN GENOA ROAD
 PASADENA TEXAS

ALLEN GENOA SHOPPING CENTER
 STRUCTURAL
 DUMPSTER DETAILS
 2215 ALLEN GENOA ROAD
 PASADENA TEXAS

DATE: 06-02-18
 CHECKED BY: b.clay
 DESIGNED BY: B.CLAY
 SCALE: NOTED
 JOB No: CAE060118
 FILE: MEKONG

GENERAL NOTES

ROOF DECK

- 22 GAGE 1-1/2" DEEP GALVANIZED TYPE B METAL ROOF DECK WITH MINIMUM $S_x = 0.186$ IN³/FT, AND $t_x = 0.169$ IN/4FT.

STRUCTURAL STEEL

- ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM SPECIFICATIONS, A36, EXCEPT WIDE FLANGE BEAMS WHICH SHALL BE GRADE 50 AND CONFORM TO ASTM 572 50 K.S.I. PIPE MEMBERS SHALL CONFORM TO ASTM A601 OR A63, GRADE B. SQUARE OR RECTANGULAR TBE SHAPES SHALL CONFORM TO ASTM A500 GRADE B. STRUCTURAL STEEL DETAILS AND CONNECTIONS SHALL CONFORM TO THE STANDARDS OF THE AISC SPlicing OF STRUCTURAL STEEL MEMBERS IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ENGINEER AS TO LOCATION AND TYPE OF SPlice TO BE MADE. ANY MEMBER HAVING A SPlice NOT SHOWN AND DETAILED ON SHOP DRAWINGS WILL BE REJECTED. ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY CODE. USE E70 SERIES ELECTRODES FOR ALL STRUCTURAL STEEL WELDS. CONTINUOUS WELD ALL CAP PLATE AND BASE PLATES TO COLUMNS.
- FIELD CONNECTIONS SHALL BE EQUIVALENT TO STANDARD BOLTED CONNECTIONS USING 3/4" DIAMETER ASTM A325X BOLTS UNLESS OTHERWISE SHOWN. CONNECTIONS SHALL BE BOLTED OR WELDED - SEE DETAILS. PROVIDE WEB CONNECTIONS FOR STEEL BEAMS AT COLUMNS UNLESS OTHERWISE NOTED UNLESS OTHERWISE NOTED ON THE DRAWINGS, THE REACTIONS FOR EACH END OF BEAM SHALL BE DESIGNED USING 1/2 OF THE TABULATED ALLOWABLE LOAD FOR THE GIVEN SPAN AS TABULATED IN PART 2 OF THE AISC MANUAL OF STEEL CONSTRUCTION.
- EXAMINE THE ARCHITECTURAL AND STRUCTURAL DRAWING FOR ALL ITEMS REQUIRED TO BE HOT - DIP GALVANIZED AFTER FABRICATION.
- STRUCTURAL STEEL SHALL BE PUNCHED FOR WOOD BLOCKING AND NAILERS IN ACCORDANCE WITH ARCHITECTURAL AND STRUCTURAL DETAILS.
- ULTRASONIC INSPECTION BY THE TESTING LABORATORY SHALL BE PROVIDED FOR ALL WELDS CALLED FOR ON THE DRAWINGS OR ON THE SHOP DRAWINGS AS PENETRATION WELDS.
- PROVIDED 3/8" COLUMN CAP PLATE WHERE JOIST BEARS ON COLUMN AND 1/2" COLUMN CAP PLATE WHERE BEAM BEARS ON COLUMN.
- ALL STRUCTURAL STEEL SHALL BE PAINTED WITH GRAY PRIMER UNLESS INDICATED TO BE GALVANIZED ON DRAWINGS.

APPLICABILITY OF TYPICAL DETAILS

- TYPICAL DETAILS SHALL APPLY TO ALL SUCH SITUATIONS AND CONDITIONS WHICH ARE SIMILAR TO THE CONDITION SHOWN ON THE DETAIL OR VERBALLY DESCRIBED IN THE TITLE OF THE DETAIL OR NOTES ON THE DETAIL.
- TYPICAL DETAILS SHALL APPLY REGARDLESS OF WHETHER OR NOT THE DETAIL SECTION MARK IS CUT ON THE PLANS.

MISCELLANEOUS

- FOOTING SHALL BE POURED IMMEDIATELY AFTER EXCAVATION.
- PRINCIPAL OPENINGS THROUGH THE FRAMING ARE SHOWN ON THESE DRAWINGS. THE GENERAL CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR REQUIRED OPENINGS AS HE SHALL PROVIDE FOR ALL OPENINGS WHETHER SHOWN ON THESE DRAWINGS OR NOT. AND SHALL VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL CONTRACTOR
 - OPENING REQUIRING HEADING OF JOISTS SHALL BE REFERRED TO THE ENGINEER FOR FRAMING
 - NORMAL PIPE SLEEVES THROUGH THE DECK WILL NOT REQUIRE FRAMING UNLESS THE OPENING EXCEEDS 10" IN DIAMETER.
- THE CONTRACTOR SHALL COMPARE STRUCTURAL SECTIONS WITH ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATION OR INSTALLING STRUCTURAL MEMBERS.
- DO NOT INSTALL PLUMPING PIPES IN GRADE BEAM TRENCHES. DO NOT PENETRATE GRADE BEAM WITHOUT ENGINEER'S APPROVAL.
- CHANGES SHALL NOT BE MADE TO THE DRAWINGS WITHOUT WRITTEN APPROVAL OF THE ENGINEER
- SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS INCLUDING REBAR, STRUCTURAL STEEL, STEEL JOISTS, METAL DECK, ETC.
- REBAR SHALL NOT BE HEATED WITH A TORCH IN THE FIELD.
- EMBED PLATES MUST BE SET IN THE FORM BEFORE POURING CONCRETE, NOT INTO TOP OF WET CONCRETE ANY EMBED PLATES LEFT OUT WILL REQUIRE REMOVAL AND RE -POURING OF CONCRETE.
- THE DESIGN OF PRECAST CONCRETE WALL PANELS AND THEIR CONNECTIONS TO THE BUILDING FRAME SHALL BE THE RESPONSIBILITY OF THE PRECAST FABRICATOR. THE FABRICATOR'S SHOP DRAWINGS SHALL BEAR THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER.

FIELD WELD INSPECTION

- THE OWNER SHALL EMPLOY A QUALIFIED TESTING LAB (AWS CERTIFIED WELD INSPECTOR) TO PERFORM VISUAL WELD INSPECTIONS ON ALL FIELDS INCLUDING ROOF DECK PUDDLE WELDS. ALL WELDS FAILING INSPECTIONS SHALL BE REINSPECTED UNTIL THEY PASS. THE LAB SHALL SUBMIT WRITTEN REPORTS OF ALL INSPECTIONS TO THE ARCHITECT AND STRUCTURAL ENGINEER.

CONCRETE / REINFORCING

- ALL CONCRETE SHALL TEST 3,000 PSI, AT 28 DAYS
- ALL CONCRETE MIX DESIGNS SHALL CONTAIN 20 % MAX. FLASH. CONTRACTOR SHALL SUBMIT CONCRETE
- THERE SHALL BE NO HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE POURS EXCEPT WHERE SHOWN ON DETAILS. ALL CONSTRUCTION JOINTS SHALL BE APPROVED BY THE ENGINEER.
- BAR SUPPORT ACCESSORIES SHALL BE PROVIDED IN ACCORDANCE WITH THE LATEST. ACT MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, EXCEPT THAT BEAM REINFORCING SHALL BE SUPPORTED ON BEAM BOISTERS SPACED NOT MORE THAN 4 FEET ON CENTER BAR SUPPORTS FOR CONCRETE EXPOSED TO VIEW SHALL HAVE PLASTIC COASTED LEGS OR BE NOT DIP GALVANIZED AFTER FABRICATION. BARS SUPPORTS FOR CONCRETE WITH A SANDBLAST FINISH SHALL HAVE STAINLESS STEEL BAR SUPPORTS. (DO NOT USE HALF BRICKS FOR BAR SUPPORTS.)
- MECHANICAL AND ELECTRICAL CONDUIT IN SLABS SHALL RUN UNDER TOP LAYER OF SLAB REINFORCING. PROVIDE A MINIMUM OF 1-1/2" CLEAR BETWEEN CONDUITS AND BETWEEN REINFORCING AND ADJACENT CONDUITS PARALLEL TO REINFORCING. IF MAXIMUM SIZE OF CONDUIT EXCEEDS ONE THIRD OF THE SLAB DEPTH, ADDITIONAL FRAMING OR REINFORCING MAY BE NECESSARY.
- WHERE SHOWN ON THE DETAILS, HCA STANDS FOR HEADED CONCRETE ANCHORS. ANCHORS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A108, GRADES 1010, 1016, 1017, OR 1020. STUDS SHALL BE AUTOMATICALLY END WELDED IN THE SHOP OR FIELD IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS. REMOVE CERAMIC FERRULE PRIOR TO POURING CONCRETE.
- WHERE EXPANSION BOLTS (EXP. BOLT) ARE SHOWN, THEY SHALL BE HTI KWIK BOLT. BOIL II OR APPROVED EQUAL. ALL ANCHORS SHALL BE ZINC PLATED MEETING THE REQUIREMENT OF ASTM B633. EXPANSION ANCHOR SHALL BE INSTALLED USING MINIMUM DEPTHS, EDGED DISTANCES AND SPACING (UNLESS, OTHERWISE, NOTED) AS RECOMMENDED BY THE ANCHOR MANUFACTURE AND SHALL BE TIGHTENED TO THE TORQUE REQUIREMENTS AT THE MANUFACTURER.
- THE ADHESIVE ANCHORS (ADHES. ANCH.) ARE SHOWN, THEY SHALL CONSIST OF ALL THE THREAD, ANCHOR, ROD, NOT, WASHER, AND ADHESIVE CAPSULE. ANCHOR RODS SHALL BE MANUFACTURED FROM SAE 1016, MEETING THE REQUIREMENTS OF ASTM, A307, GRADE A. ANCHOR RODS SHALL HAVE ROLL TREADS. THE ADHESIVE CAPTURE USED SHALL CONTAIN VINYLESTER RESIN, ADHESIVE ANCHORS SHALL BE INSTALLED USING MINIMUM DEPTHS, EDGE DISTANCES, SPACING (UNLESS OTHERWISE, NOTED) AND INSTALLATION PROCEDURES AS RECOMMENDED BY THE MANUFACTURER. DO NOT APPLY LOAD TO ANCHOR UNTIL RESIN GAS CURED IN ACCORDANCE WITH RECOMMENDATIONS OF THE MANUFACTURE. ACCEPTABLE ADHESIVE ANCHORS ARE HILTI HVA.
- ALL REINFORCING STEEL SHALL BE GRADE 60 AND SHALL CONFORM TO THE ASTM. SPECIFICATION A616 DETAILING OF REINFORCING STEEL SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE DETAILING MANUAL. LAP CONTINUOUS UNSHEDDLED REINFORCING BARS 42 BAR DIAMETERS AT SPLICES. ALL REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM SPECIFICATION A706.
- PROVIDE 1-# 6 x 4'-0" L-SHARP BAR TOP AND BOTTOM OF EXTERIOR FACE OF GRADE BEAMS AND SPANDEL BEAMS AT CORNERS.
- WELDED WIRE SHALL CONFORM TO ASTM SPECIFICATION A185 (FLAT SHEETS ONLY).
- PROVIDE STIRRUP SUPPORT BARS AS REQUIRED FOR THE LENGTH OF STIRRUP SPACING IN ALL BEAMS EXCEPT WHERE TOP BARS ARE PROVIDED.
- REINFORCING STEEL COVERAGE SHALL BE AS FOLLOWS:
 - GRADE BEAMS - 1 - 1/2" TOP, 3" BOTTOM, 3" SIDES
 - FOOTING, PIERS - 3"
 - SLAB - 2" TOP
- FOR GRADE SUPPORTED SLABS, SLAB REINFORCING SHALL BE HELD IN PLACE BY BAR SUPPORTS AND ACESORIES SUPPLIED WITH SAND PLATE) AS DESCRIBED IN CR - 4, PRECAST CONCRETE BAR SUPPORTS AS DESCRIBED IN IN CHAPTER 3 OF THE CRSI MANUAL OF STANDARD PRACTICE MAY ALSO BE USED. BAR SUPPORTS SHALL BE SPACED A MAXIMUM OF 4'-0" O.C. BOTH WAYS. NO ROCKS, CMU, CLAY TILE, OR BRICK SHALL BE USED TO SUPPORT REINFORCING.
- FOUNDATION DESIGN IS BASED ON SOIL REPORT NO. G03-170 DATED AUG 9, 2003 PREPARED BY A.R.M. SOIL TESTING HOUSTON, TX. THIS REPORT IS PART OF THIS CONTRUCTION DOCUMENT.

GENERAL

- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND , EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD ON MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE.
- THE STRUCTURE HAS BEEN DESIGNED TO RESIST DESIGN LOADS ONLY AS A COMPLETED STRUCTURE. APPLICATIONS OF CONSTRUCTION LOADS TO THE PARTIALLY COMPLETED STRUCTURE SHALL BE CONSIDERED BY THE CONTRACTOR AND SO INCLUDE IN THE DESIGN OF SHOPPING, BRACING, FORMWORK, AND ANY OTHER SUPPORTING ELEMENTS PROVIDED FOR CONSTRUCTION OF THE STRUCTURE DURING ERECTION AND UNTIL ALL PERMANENT CONNECTIONS ARE MADE THE CONTRACTOR MUST PROVIDE TEMPORARY BRACING TO BRACE THE STRUCTURE IN ALL DIRECTION.
- THE ENGINEER SHALL NOT HAVE CONTROL OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS METHODS TECHNIQUES, SEQUENCES, OR PROCEDURES FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OF OMISSION OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OF RHE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- GENERAL CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS, GRADE CONDITIONS, (BOTH NEW AND EXISTING) REPORTING ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH ANY PHASE OF THE WORK AS HE WILL BE RESPONSIBLE FOR ALL WORK FITTING AS INTENDED BY THE DRAWING AND SPECIFICATIONS.

SITE OBSERVATION BY THE STRUCTURAL ENGINEER

- PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES OF (SIGMA ENGINEERING SERVICES) IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN GENERAL ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THESE LIMITED SITE OBSERVATION SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OF THE WORK, BUT RATHER PERIODIC IN AN EFFORT TO GUARD THE OWNER AGAINST DEFECTS OF DEFICIENCIES IN THE WORK OF CONTRACTOR
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER 24 HOURS IN ADVANCED OF ANY MAJOR CONCRETE POUR.
- THE CONTRACTOR SHALL NOT POUR ANY CONCRETE UNTIL ALL REINFORCING STEEL PLACEMENT HAS BEEN REVIEWED BY THE STRUCTURAL ENGINEER AND ALL CORRECTIONS MADE BY THE CONTRACTOR IT IS THE CONTRACTOR'S RESPONSIBILITIES TO ENSURE THAT ALL CORRECTIONS HAVE BEEN MADE
- DO NOT COVER UP STRUCTURAL FRAMING UNTIL IT HAS BEEN REVIEWED BY THE ENGINEER.

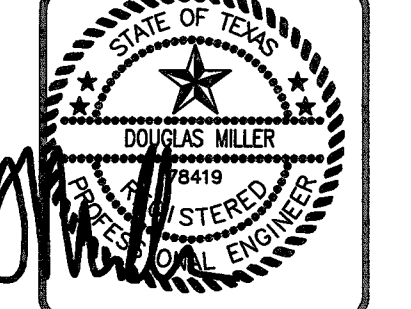
CONCRETE MASONRY NOTES:

- ALL CONCRETE MASONRY UNITS SHALL BE ASTM C- 90 GRADE N TYPE1 , SAND AND GRAVEL AGGREGATE $F_m = 1,800$ psi.
- ALL MORTAR SHALL BE ASTM C-270 TYPE S MORTAR, CONSISTING OF PORTLAND CEMENT, LIME ANS FINE AGGREGATE.
- PORTLAND CEMENT SHALL CONFORM TO ATM C- 150. AGGREGATED SHALL CONFORM TO ASTM C-144. HYDRATED LIME SHALL CONFORM TO ASTM C- 207
- NO CALCIUM CHLORIDE OR FLY ASH SHALL BE PERMITTED IN MORTAR MIX.
- VERTICAL CELLS SHOWN ON PLANS OR IN SECTION AS SOLID SHALL HAVE A VERTICAL ALIGNMENT TO MAINTAIN A CLEAR, UNOBSTRUCTED, CONTINUOUS VERTICAL CELL , MEASURING NOT LESS THAN 2' X 3'
- ALL CELLS CONTAINING REINFORCEMENT SHALL BE FILLED SOLIDLY WITH 3000 PSI GROUT OR CONCRETE. THE MAXIMUM AGGREGATE SIZE FOR GROUTING SHALL BE 3/8".
- ALL REINFORCEMENT STEEL BARS SHALL BE IN PLACE PRIOR TO GROUTING.
- ALL SPLICE IN REINFORCEMENT BARS SHALL LAP A MINIMUM OF 30 BAR DIAMETER.

REVISIONS	
No.	DESCRIPTION
1	
2	
3	
4	

THIS DRAWING IS PROPERTY OF CLAY ASSOCIATES, L.L.C. IT IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION FROM CLAY ASSOCIATES.

CONTRACTOR IS RESPONSIBLE FOR ANY DISCREPANCIES ON FIELD TO CONTACT ENGINEER IMMEDIATELY FOR ADJUSTMENT.



CLAY ASSOCIATES, L.L.C.
 2215 ALLEN GENOA ROAD
 PASADENA TEXAS

SUBJECT TO FIELD CORRECTIONS

ALLEN GENOA SHOPPING PLAZA
 GENERAL NOTES
 2215 ALLEN GENOA ROAD
 PASADENA TEXAS

DATE: 06-02-18
 CHECKED BY: b.clay
 DESIGNED BY: B.CLAY
 SCALE: NONE
 JOB No: CAE060118
 FILE: MEKONG