GENERAL NOTES

1. NO PERSON SHALL PERFORM ANY CONSTRUCTION ACTIVITY OR INSTALL ANY OBJECTS WITHIN THE PUBLIC RIGHTS-OF-WAY OR EASEMENTS OF THE CITY OF RIVERSIDE WITHOUT A VALID CONSTRUCTION PERMIT OR, A STREET OPENING PERMIT OR AN ENCROACHMENT PERMIT ISSUED BY THE CITY'S PUBLIC WORKS DEPARTMENT.

2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAR THE RIGHT-OF-WAY IN ACCORDANCE WITH THE PROVISIONS OF LAW AS IT AFFECTS EACH UTILITY INCLUDING IRRIGATION LINES AND APPURTENANCES AND AT NO COST TO THE CITY.

3. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE DEPARTMENT OF PUBLIC WORKS, STANDARD DRAWINGS, ITS SUPPLEMENTAL NOTES AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION.

4. THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE

5. THE DEVELOPER AND/OR CONTRACTOR SHALL CONTACT THE PUBLIC WORKS DEPARTMENT 30 DAYS PRIOR TO BEGINNING CONSTRUCTION TO NEGOTIATE THE COST OF THE CITY'S PORTION OF THE WORK.

6. ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.

7. WHERE NEW PAVEMENT IS TO JOIN THE EXISTING PAVEMENT, THE EDGE OF THE EXISTING PAVEMENT SHALL BE TRIMMED IN A SMOOTH AND STRAIGHT LINE. CONSTRUCT MATCH-UP PAVING AS SHOWN ON THE PLANS AND OVERLAY PAVING AS DIRECTED IN THE FIELD TO PRODUCE A SMOOTH

8. CONSTRUCT DRIVEWAY APPROACHES PER STANDARD DRAWING 302. EXACT SIZE AND LOCATION TO BE STAKED BY THE PRIVATE ENGINEER PRIOR TO CONSTRUCTION OF THE CURB AND GUTTER.

9. THE SUBDIVIDER SHALL ARRANGE FOR A SOIL TEST TO BE MADE BY A SOILS ENGINEER AFTER THE STREETS HAVE BEEN PREPARED TO ROUGH GRADE AND PRIOR TO CURB AND GUTTER CONSTRUCTION, DEPTH OF BASE MATERIAL AND A.C. PAVING SHALL BE DETERMINED BY THE CITY OF RIVERSIDE DESIGN STANDARDS AND TEST PROCEDURES.

10. ALL OVERHANGING TREE LIMBS THAT ARE LESS THAN 14' ABOVE THE STREET GRADE SHALL BE TRIMMED BACK.

11. THE DEVELOPER AND/OR CONTRACTOR SHALL CONTACT THE STREET DIVISION (351-6127) TO PICK UP ANY EXISTING BARRICADES THAT ARE BEING REMOVED. THE CITY'S INSPECTOR WILL MAKE THE FINAL DETERMINATION ON WHETHER A BARRICADE CAN BE RELOCATED

12. ON ALL AREAS WITHIN PUBLIC RIGHT OF WAY WHERE THE FILL IS ONE (1) FOOT OR GREATER, A LETTER WILL BE REQUIRED FROM THE SOILS ENGINEER, CERTIFYING THE COMPACTION OF THE FILL BELOW SUBGRADE, PRIOR TO ISSUANCE OF THE CONSTRUCTION PERMIT/CUT SHEETS.

13. ALL TRAFFIC SIGNS SHALL BE INSTALLED PRIOR TO OPENING THE STREETS TO TRAFFIC.

14. ANY TRAFFIC CONTROL STRIPING OBLITERATED AND/OR BADLY WORN DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR WITHIN FIVE DAYS AFTER NOTIFICATION FROM THE CITY INSPECTORS.

15. THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (USA), PHONE # 1-800-227-2600, TWO WORKING DAYS BEFORE DIGGING. NO CONSTRUCTION PERMIT WILL BE ISSUED BY THE PUBLIC WORKS DEPARTMENT INVOLVING EXCAVATION FOR UNDERGROUND FACILITIES UNLESS THE APPLICANT HAS BEEN PROVIDED AN INQUIRY IDENTIFICATION NUMBER BY U.S.A.

16. LOCATION OF LATERALS TO BE DETERMINED IN THE FIELD AT THE DIRECTION OF THE OWNER, AVOID CONFLICT WITH PROPOSED AND/OR EXISTING FACILITIES.

17. IN PAVEMENT OVERLAY AREAS, ANY DISTRESSED EXISTING PAVEMENT SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE INSPECTOR PRIOR TO OVERLAYING WITH A.C. PAVING.

18. QUALITIES SHOWN ARE FOR INFORMATION ONLY AND THE CITY OF RIVERSIDE IS NOT RESPONSIBLE FOR THEIR ACCURACY.

19. FINAL STRIPING FOR TRAFFIC CONTROL AND/OR PAVEMENT MARKING TO BE THE RESPONSIBILITY OF THE DEVELOPER. NOTICE TO CONTRACTOR

THE EXISTENCE AND LOCATIONS OF ALL UNDERGROUND UTILITIES (UTILITY PIPES, STRUCTURES, ETC.) SHOWN ON THESE PLANS (MAIN LINES ONLY - NO SERVICE LATERALS) WERE ASCERTAINED BY A REVIEW OF RECORDS PROVIDED BY THESE MEMBER AGENCIES AND ARE APPROXIMATE. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY FOR UTILITIES NOT SHOWN OR NOT IN THE LOCATION SHOWN, THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS, LOCATIONS OF UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION, CALL UNDERGROUND SERVICE ALERT (U.S.A.) 811 AT LEAST 2 WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION

WATER NOTE

EXTEND EXISTING FIRE HYDRANT (BY CITY FORCES). PER PUW 18-0164. CONTACT WATER ENGINEERING AT 951-826-5285 TWO WEEKS PRIOR TO CONSTRUCTION TO SCHEDULE RELOCATION.



CAUTION: EXACT LOCATION OF EXISTING UNDERGROUND FACILITIES IS UNKNOWN CONTRACTOR TO Call at least 2 working days prior to excavating. VERIFY IN FIELD.

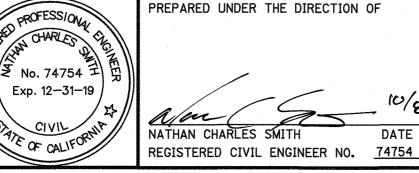
CITY OF RIVERSIDE PUBLIC UTILITIES DEPARTMENT

WATER

CITY OF RIVERSIDE **PUBLIC UTILITIES DEPARTMENT OVERHEAD & UNDERGROUND**

APPROVED BY:





20. DEVELOPER AND/OR CONTRACTOR TO GIVE RCFC 5 DAYS WRITTEN NOTICE PRIOR TO STARTING WORK ON STORM DRAIN (OR DOING ANY WORK

21. CONTRACTOR IS TO VERIFY EXISTING SEWER ELEVATION PRIOR TO

22. THE SEWER CONTRACTOR SHALL ADJUST MANHOLES TO FINAL GRADE

MARLBOROUGH

257-060-016

257-030-040

WITHIN RCFC EASEMENTS).

AFTER PAVING IS COMPLETED.

CONSTRUCTION.

770 IOWA AVENUE - SUITE 100 RIVERSIDE, CA 92507 CITY BUSINESS TAX CERTIFICATE NO. 35225 EXP. DATE 7/31/19 SEE SHEET ONE

IN THE CIY OF RIVERSIDE, CALIFORNIA

STREET IMPROVEMENT PLAN

MARLBOROUGH AVENUE

257-030-042

APN

257-060-002

-030-044

RK BY DATE

DESIGNED BY ___JOM___

CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT APPROVED BY DATE RINCIPAL ENGINEER End 10.16.18 K.H 10-15-18 REVISIONS DRAWN BY JOM CHECKED BY NCS

BASIS OF BEARING

MEAN SEA LEVEL = 1100'.

ABOUT POINT #6

BENCHMARK

EAST CORNER OF SITE

ADJUSTMENT YEAR: 2009

THE BASIS OF BEARINGS FOR THIS SURVEY IS

AS SHOWN HEREON. (I.E. N 17°16'09"E)

CONVERGENCE ANGLE = -0° 35′ 21.4565″

1988 ELEVATION = 933.305 (NAVD 88)

THE CALIFORNIA COORDINATE SYSTEM, NAD 83 (NSRS 2011)

OPERATING REFERENCE STATIONS (CORS) "MAT2" AND "RTHS"

EPOCH 2010.00, COUNTY OF RIVERSIDE, ZONE 6 , AS DETERMINED LOCALLY BY A TIE BETWEEN CONTINUOUSLY

DISTANCES SHOWN HEREON ARE GROUND DISTANCES, GRID

DISTANCES MAY BE OBTAINED BY MULTIPLYING GROUND

ELEVATIONS ARE BASED UPON CITY OF RIVERSIDE BM

P.K. NAIL AND CITY ENGINEER TAG IN THE SOUTHEASTERLY

IOWA AVENUE AT THE SOUTHEAST CURB RETURN OF IOWA

AVENUE AND MARLBOROUGH AVENUE. (B.M. TRANSFER FROM

CORNER OF A CATCH BASIN ALONG THE EASTERLY CURB OF

DISTANCES BY 1.0000374434 AVERAGE ELEVATION ABOVE

RIVERSIDE T2S R4W SEC 17 VICINITY MAP

WORK TO BE DONE

THESE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS, THE CURRENT **county/city** STANDARDS AND SPECIFICATIONS, AND THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION ("GREEN

PRIVATE ENGINEER'S NOTE TO CONTRACTOR

ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE OCCUPATIONAL SAFETY AND HEALTH REGULATIONS OF THE U.S. DEPARTMENT OF LABOR AND THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS CONSTRUCTION SAFETY ORDERS. THE CIVIL ENGINEER SHALL NOT BE RESPONSIBLE IN ANY WAY FOR THE CONTRACTOR'S AND SUBCONTRACTOR'S COMPLIANCE WITH SAID REGULATIONS AND ORDERS.

CONTRACTOR FURTHER AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB-SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND CIVIL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTION FOR LIABILITY RISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

THE EXISTENCE AND APPROXIMATE LOCATIONS OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. THE CIVIL ENGINEER ASSUMES NO LIABILITY AS TO THE EXACT LOCATION OF SAID LINES NOR FOR UTILITY OR IRRIGATION LINES WHOSE LOCATIONS ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY AND IRRIGATION COMPANIES PRIOR TO WORK OR EXCAVATION TO DETERMINE THE EXACT LOCATIONS OF ALL LINES AFFECTING THIS WORK, WHETHER OR NOT SHOWN HERE ON, AND FOR ANY DAMAGE OR PROTECTION TO THESE LINES.

ENGINEER'S NOTES

PRIVATE ENGINEER WILL NOT BE PROVIDING INSPECTION SERVICES OR CONSTRUCTION REVIEW. THESE FUNCTIONS ARE THE RESPONSIBILITY OF THE CITY AND/OR THE GENERAL CONTRACTOR. ENGINEER ACCEPTS NO LIABILITY FOR SUCH FUNCTIONS OR WORK THEREOF.

CIVIL ENGINEER

RIVERSIDE, CA 92507

RICK ENGINEERING COMPANY

1770 IOWA AVENUE SUITE 100

ATTN: NATHAN CHARLES SMITH

OWNER/DEVELOPER

GUTHRIE PERICLES, LLC. 1451 RESEARCH PARK DRIVE-SUITE 200 RIVERSIDE, CA 92507 ATTN: DOUGLAS THOMPSON

(951) 782-0707 PHONE: (951) 784-7238 GEOTECHNICAL ENGINEER

JOHN R. BYERLY 2257 SOUTH LILAC AVE. BLOOMINGTON, CA 92316-2903 ATTN: JOHN R BYERLY (951) 783-1910

SHEET INDEX

TITLE SHEET DETAIL SHEET STREET PLAN AND PROFILE MWS DETAIL SHEET STRUCTURAL SLAB DETAI

HORIZ: 1"=100"

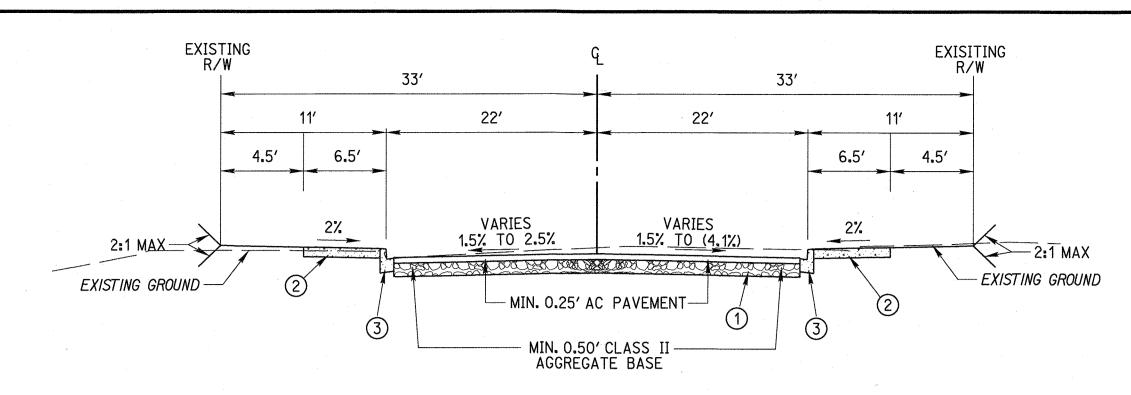
ISTREET IMPROVEMENT PLAN PW18-0346

R-4447 MARLBOROUGH INDUSTRIAL MARBOROUGH AVENUE 750 MARLBOROUGH AVENUE SHEET 1 of 5

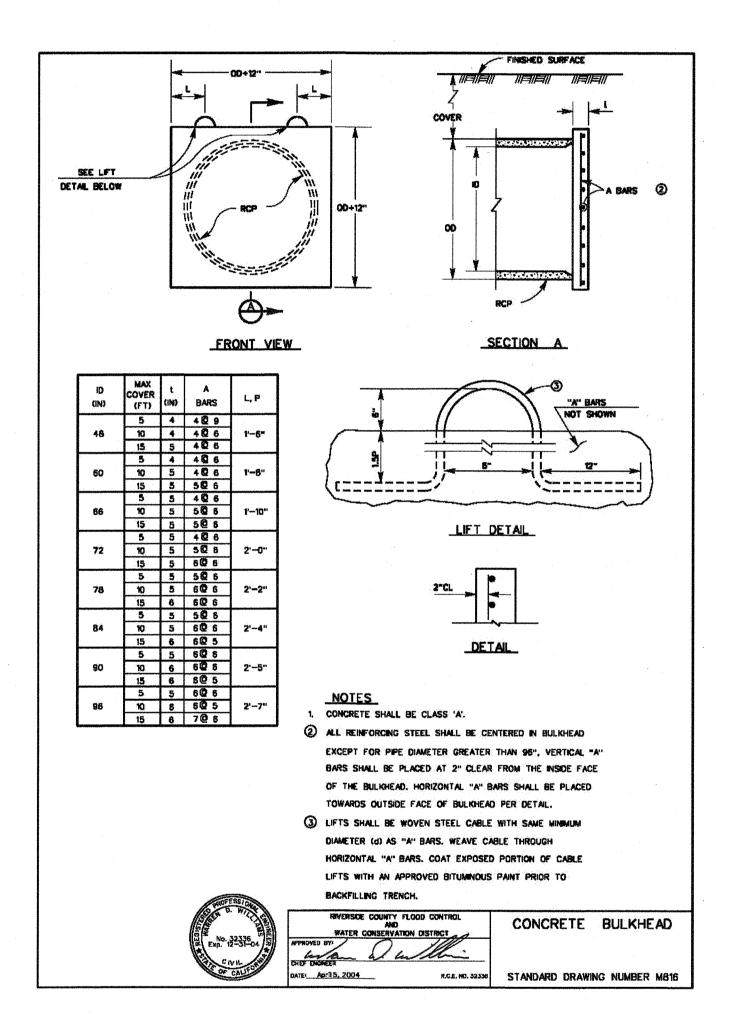
VERT: N/A

PLOT DATE: 04-0CT-2018

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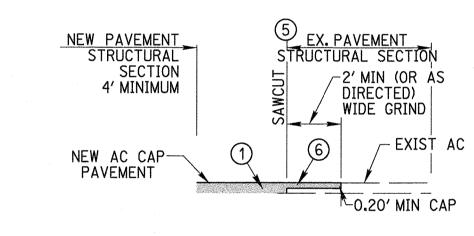
36' LOCAL STREET MARLBOROUGH AVENUE
PER MODIFIED CITY OF RIVERSIDE STD 101
R-VALUE= 47 (PER R-3619)
T.I.= 8.0
N.T.S



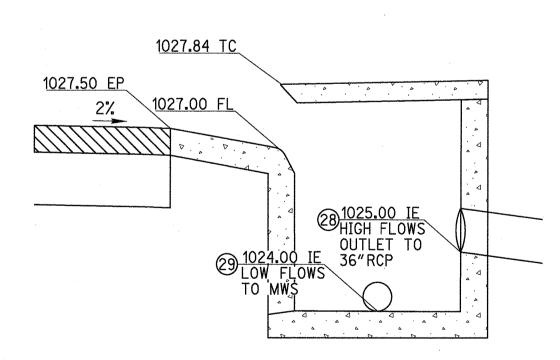
CONCRETE BULKHEAD

CONSTRUCTION NOTES AND QUANTITY ESTIMATES

CONSTITUTION NOTES AND COMMITTE	LOTIVIATLO	
1) PLACE 0.25' MIN. AC PAVEMENT OVER 0.5' MIN. CLASS II AGG	REGATE BASE (R-VALUE 47)	274 TONS
	RSIDE STD 325	/X:1 / Y
	ERSIDE STD 200	
(4) CONSTRUCT DRIVEWAY APPROACH PER CITY OF RIVERSIDE S	STD 302 TYPE CURB-I	2 EA
5 SAWCUT EXIST. A.C. PVMT. SEE TYPICAL JOIN DETAIL ON TH	IS SHEET	90 LF
6 GRIND AND OVERLAY EXISTING PAVEMENT. SEE TYPICAL JOI	IN DETAIL ON THIS SHEET	180 SF
8 REMOVE EXISTING PARKWAY DRAIN		1 EA
10 REMOVE EXISTING CURB AND GUTTER		280 LF
11) ADJUST WATER VALVE TO GRADE		4 EA
12 ADJUST STORM DRAIN MANHOLE TO GRADE		1 EA
13 ADJUST SEWER MANHOLE TO GRADE PER SEWER PLAN		1 EA
16 ADJUST EXISTING UTILITY BOX TO GRADE		2 EA
(19) EXTEND FIRE HYDRANT BY CITY FORCES PER PUW 18-0164.		1 EA
20 CONSTRUCT MODIFIED STORM WATER CATCH BASIN TYPE 10	CITY OF RIVERSIDE STD NO. 400 PER DETAIL ON THIS SHEET	1 EA
21 INSTALL MODULAR WETLANDS STORMWATER BIOFILTRATION S	SYSTEM PER DETAILS ON SHEET 4 PER SEPARATE PERMIT, FOR REFERENCE O	1 EA
22 INSTALL 36"RCP, D-LOAD=3500		85 LF
	STD 421 (D=36", A=45°, B=36", L=6.4', C'=6.1', E'=5.6')	
24 INSTALL JUNCTION STRUCTURE NO.4 PER CITY OF RIVERSIDE	E STD 423	1 EA
25 CONSTRUCT CONCRETE BULKHEAD PER RIVERSIDE COUNTY FL	OOD CONTROL STD NO. M816. SEE DETAIL ON THIS SHEET	1 EA
26 CONSTRUCT 17.5' PIPE CROSSING SLAB PER STRUCTURAL DE	TAIL ON SHEET 5	2,000 SF
27 CONSTRUCT MANHOLE JM PER CITY OF RIVERSIDE STD NO. 4	32 (D=36", A=45°, B=18", L=5.0', C'=6.6', E'=4.6')	1 EA
29 INSTALL 12"HDPE		30 LF



(6)(7) SAWCUT, GRIND & OVERLAY DETAIL



MODIFIED CATCH BASIN TYPE 1 DETAIL

CONSTRUCTION LEGEND	
PROPOSED CURB AND GUTTER	
PROPOSED SIDEWALK	
SAWCUT	
PROPOSED SIGN	
GRIND AND OVERLAY	
REMOVALS	
PROPOSED DRIVEWAY	1
ABBREVIATIONS	
AGGREGATE BASE	AB
ASPHALT CONCRETE	
BEGIN CURB RETURN BEGIN CURVE	
BEGIN VERTICAL CURVE	
CURB & GUTTER	
END CURVE	EC
END VERTICAL CURVEFINISHED GRADE ELEVATION	
FINISHED SURFACE ELEVATION	FS
FLOW LINE ELEVATION GRADE BREAK	
TOP OF CURB ELEVATION	
NOT TO SCALE	
PROPOSED RIGHT-OF-WAY	
EXISTING TOPO LEGEND	
EXISTING FENCE	X
DIRECTION OF FLOW	
EXISTING SANITARY SEWER MANHOLE	
EXISTING STORM DRAIN MANHOLE	\sim
EXISTING TELEPHONE VAULT	
EXISTING WATER METER	
EVICTING FIRE HYDRANT	
EXISTING FIRE HYDRANT EXISTING POLE AND GUY ANCHOR	
	,
EXISTING POWER POLE	
EXISTING TELEPHONE POLE	$\circ_{\mathcal{T}}$
EXISTING JOINT USE POLE	OJ
EXISTING TRAFFIC SIGNAL PULL BOX	T.S
EXISTING TRAFFIC SIGN	•
EXISTING STREET NAME SIGN	**************************************
EXISTING GAS METER	$\square G$
EXISTING WALK-DON'T WALK PED SIGNAL	← □
PED PUSH BUTTON	
EXISTING TRAFFIC SIGNAL	
EXISTING TRAFFIC SIGNAL ON MAST ARM	•
EXISTING TRAFFIC SIGNAL CONTROLLER	X
EXISTING TRAFFIC SIGNAL PRESSURE DETECTOR	
EXISTING TRAFFIC SIGNAL LOOP DETECTOR	\bigcirc
EXISTING STREET LIGHT	·——
EXISTING ASPHALT	
EXISTING CONCRETE	CONC
EXISTING BUILDING	
EXISTING PCC CURB	AMERICAN AND AND AND AND AND AND AND AND AND A
EXISTING PCC CURB AND GUTTER	

EXISTING WALL

N.T.S.

Know what's below. Call before you dig.

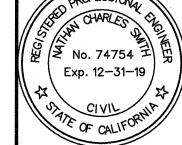
CAUTION:

EXACT LOCATION OF EXISTING UNDERGROUND FACILITIES IS UNKNOWN. CONTRACTOR TO

Call at least 2 working days prior to excavating. VERIFY IN FIELD. CITY OF RIVERSIDE

PUBLIC UTILITIES DEPARTMENT

CITY OF RIVERSIDE PUBLIC UTILITIES DEPARTMENT OVERHEAD & UNDERGROUND 10/11/18

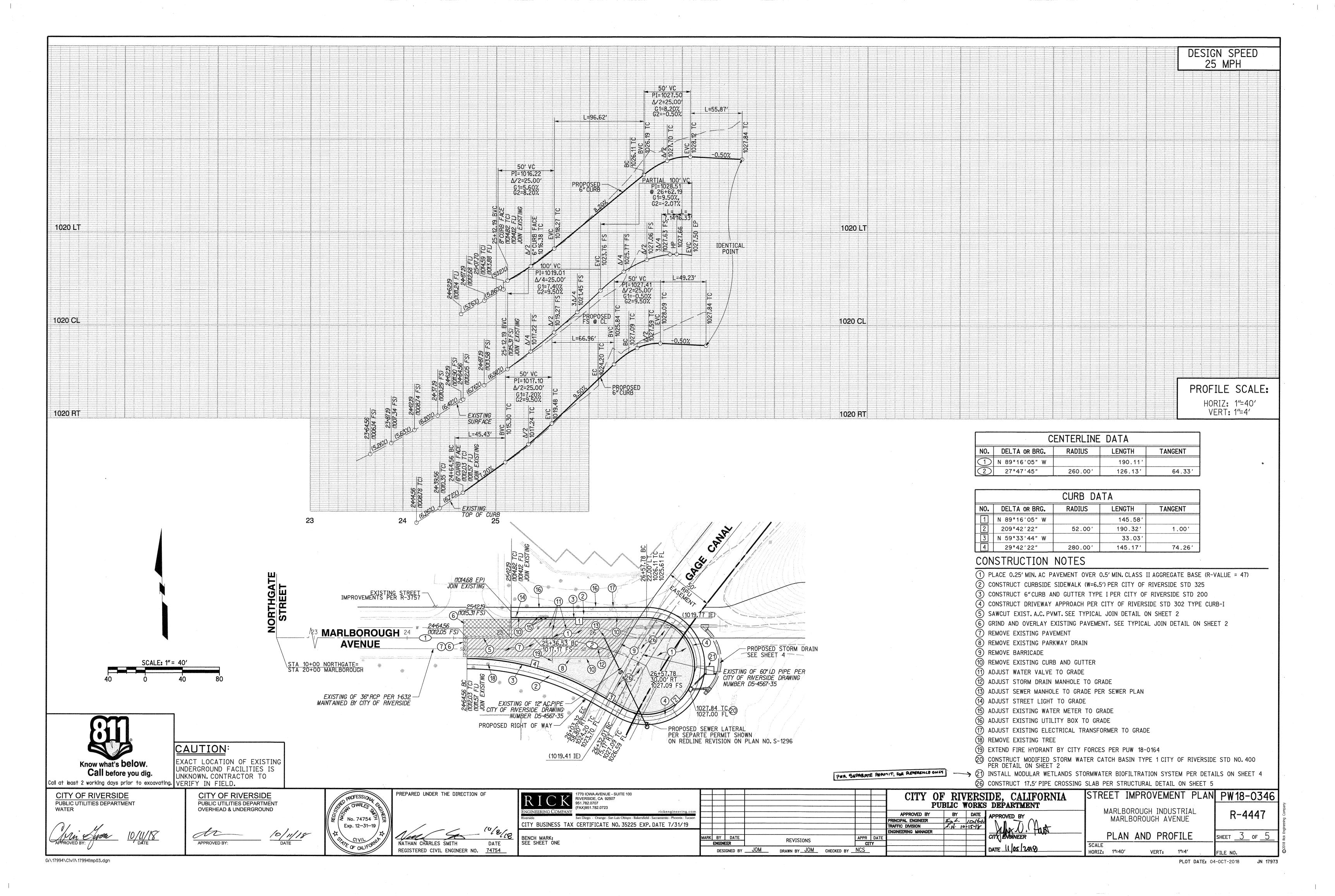


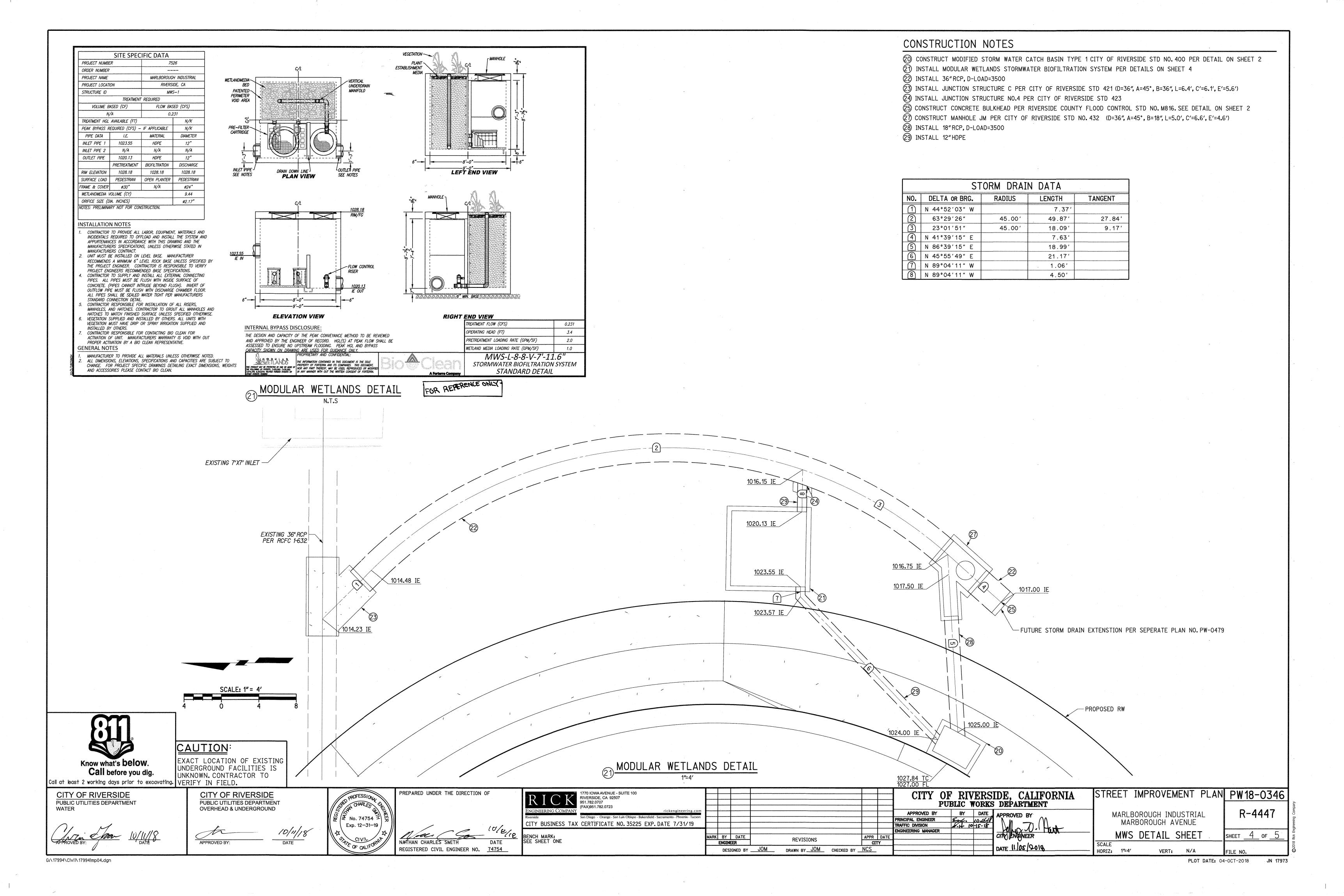
NATHAN CHARLES SMITH REGISTERED CIVIL ENGINEER NO.

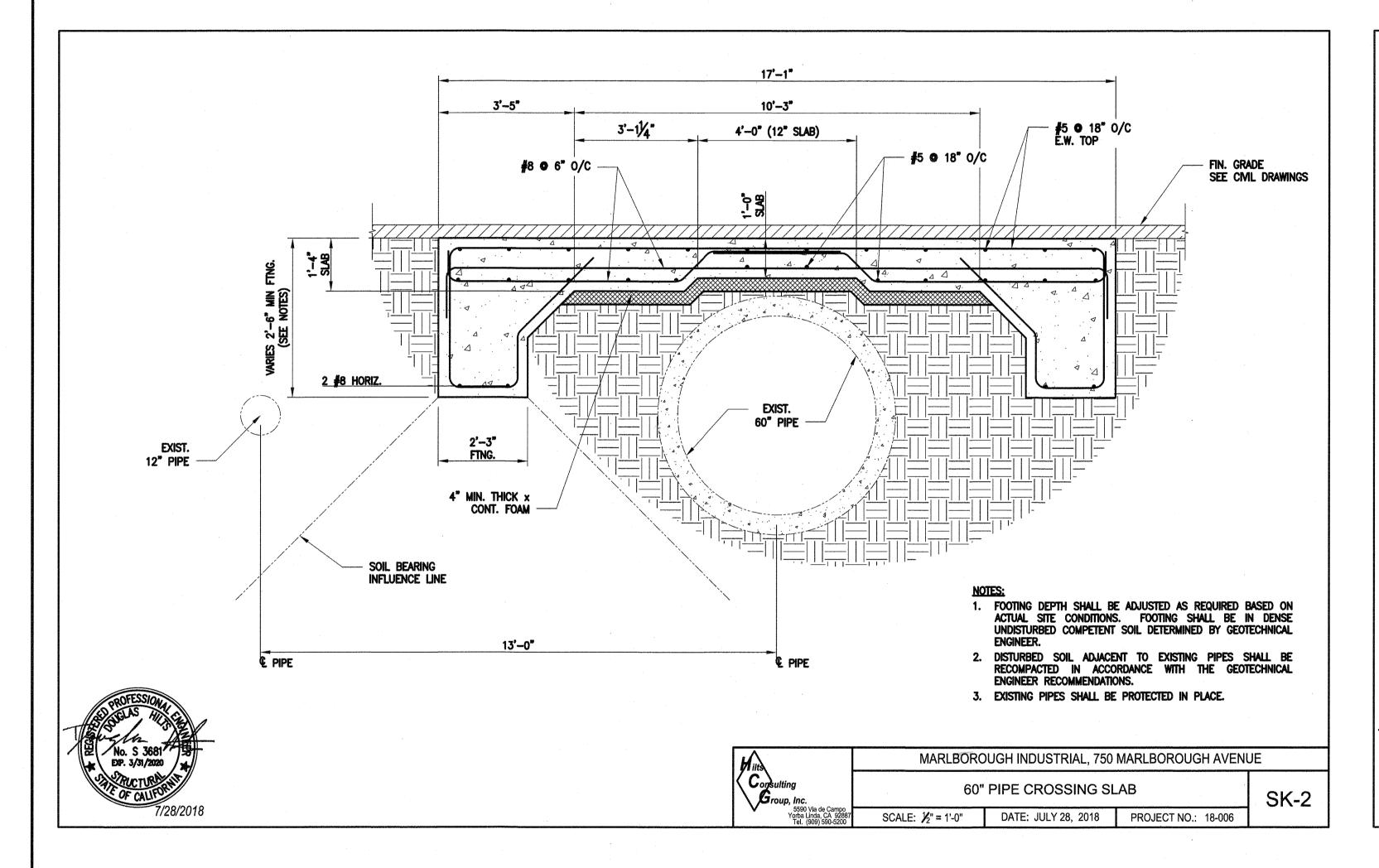
PREPARED UNDER THE DIRECTION	OF	RIC ENGINEERING C
1/00	10/8/	CITY BUSINE
NATHAN CHARLES SMITH	DATE	BENCH MARK: SEE SHEET ON
REGISTERED CIVIL ENGINEER NO.	74754	

RICK ENGINEERING COMPANY	1770 IOWA AVENUE - SUITE 100 RIVERSIDE, CA 92507 951.782.0707 (FAX)951.782.0723	ckengineering.com	
Riverside CITY BUSINESS TAX	San Diego - Orange - San Luis Obispo - Bakersfield - Sacram CERTIFICATE NO. 35225 EXP. DAT		
BENCH MARK: SEE SHEET ONE			MARK

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土			· · · · · · · · · · · · · · · · · · ·					APPROVED BY	BY	DATE	APPROVED BY	MARLBOROUGH INDUSTRIAL	R-4447
1			· · · · · · · · · · · · · · · · · · ·					PRINCIPAL ENGINEER		10-16-18	$\Lambda_{\mathbf{A}} = \Lambda$	MARBOROUGH AVENUE	
╀						_		TRAFFIC DIVISION ENGINEERING MANAGER	A. 14. 1	-15-18	Was O. Hart		
士	вү	DATE		REVISIONS		APPR	DATE	ENGINEERING MANAGER			CITY ENGINEER	DETAILS	SHEET <u>2</u> OF <u>5</u>
	NGINEE			UCA1010N2		CI.	TY			<u> </u>	ula do Ma	SCALE	
***	DESIG	NED BY _	<u>JOM</u>	DRAWN BY JOM	CHECKED BY	NCS					DATE 11/05/2018	HORIZ: N/A VERT: N/A	FILE NO.







STRUCTURAL DESIGN CRITERIA:
1. 2016 IBC & ASCE 7-10

2. H20 TRUCK LOADING

TESTS AND SPECIAL INSPECTION

1. THE CONTRACTOR SHALL PROVIDE THE SERVICES OF A TESTING LABORATORY APPROVED BY THE OWNER TO PROVIDE SPECIAL DEPUTY INSPECTION SERVICES IN ACCORDANCE WITH CALIFORNIA BUILDING CODE CHAPTER 17, FOR THE FOLLOWING TYPES OF WORK.

A. REINFORCING STEEL PLACEMENT — PERIODIC
B. CONCETE TEST SPECIMENS FOR 28—DAY COMPRESSION
STRENGTH TEST, SLUMP, AIR CONTENT, AND TEMPERATURE — PERIODIC, EVERY 50 CUBIC YARDS

A. MATERIAL ADEQUACY BELOW FOUNDATIONS — PERIODIC
B. EXCAVATIONS TO PROPER DEPTH AND INTO COMPETENT MATERIAL

C. PREPARATION OF SUBGRADE MATERIAL PRIOR TO PLACING FILL MATERIALS — PERIODIC D. PROPER MATERIALS, DENSITY, LIFT THICKNESS, AND COMPACTION

of fill materials — continuous

4. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF SPECIAL INSPECTIONS. SPECIAL INSPECTIONS SHALL BE ARRANGED A MINIMUM OF 1 DAY IN ADVANCE OF WORK REQUIRING SPECIAL INSPECTION.

5. WORK CONCEALED PRIOR TO INSPECTION SHALL BE REMOVED OR EXPOSED TO PERFORM REQUIRED INSPECTIONS, AT THE CONTRACTOR'S

6. A CERTIFICATION OF COMPLIANCE AND INSPECTION REPORTS SHALL BE SUBMITTED FOR ALL WORK ITEMS REQUIRING SPECIAL INSPECTION.

FOUNDATIONS

1. FOUNDATION DESIGN IS BASED ON THE RECOMMENDATIONS CONTAINED

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1. FOUNDATION DESIGN IS BASED ON THE RECOMMENDATION DESIGN IN THE SITE-SPECIFIC SOILS INVESTIGATION, 750 MARLBOROUGH INDUSTRIAL BUILDING, PREPARED BY JOHN R. BYERLY, DATED AUGUST

2. SITE PREPARATION AND FOUNDATION WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SITE—SOILS INVESTIGATION REPORT. THE SOILS REPORT IS PART OF THESE CONTRACT DOCUMENTS AND SHALL BE KEPT ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.

3. ALLOWABLE SOIL BEARING = 2000 PSF

4. FOOTING DEPTH AND EMBEDMENT IS SUBJECT TO REVIEW OF THE GEOTECHNICAL ENGINEER AND SITE CONDITIONS ENCOUNTERED DURING

5. FOUNDATION EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF FILL SOILS, REINFORCING STEEL, OR CONCRETE.

6. CONTRACTOR SHALL PROVIDE FOR DEWATERING OR EXCAVATIONS FROM EITHER SURFACE WATER, GROUND WATER, OR SEEPAGE.

7. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL CRIBBING, SHEET PILES, AND SHORING REQUIRED TO COMPLY WITH ALL SAFETY REGULATIONS AND TO TEMPORARILY SUPPORT EXISTING IMPROVEMENTS WITHIN CONSTRUCTION AREA.

8. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITTING, AND INSTALLATION OF ALL REQUIRED BRACING.

9. CONTRACTOR SHALL REMOVE ALL ABANDONED FOOTINGS, UTILITIES, ETC. THAT UNDERMINE OR INTERFERE WITH THE NEW CONSTRUCTION.

1. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.

2. ALL REINFORCING STEEL BENDS SHALL BE MADE COLD.

3. REINFORCING STEEL BEND RADIUS SHALL BE IN ACCORDANCE WITH ACI

4. LAP SPLICE LENGTH SHALL BE A MINIMUM OF

5. MINIMUM CLEAR DISTANCE BETWEEN REINFORCING STEEL, INCLUDING AREAS AT SPLICES, SHALL BE 1" OR 1-BAR DIAMETER, WHICHEVER IS

6. LAP SPLICES SHALL BE FULL CONTACT SPLICES. SPLICES SHALL BE STAGGERED WHERE POSSIBLE. 7. REINFORCING SHALL BE LAPPED AS INDICATED ON THE DRAWINGS OR

AS NOTED BELOW, WHICHEVER IS GREATER: #5 = 3'-0"

#8 = 6'-0"

CAST-IN-PLACE CONCRETE

1. REINFORCED CONCRETE WORK SHALL CONFORM TO THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318), THE MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE

STRUCTURAL CAST-IN-PLACE CONCRETE SHALL BE HARDROCK CONCRETE WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH (f'c) OF

CONSTRUCTION (CRSI), AND THESE CONSTRUCTION DRAWINGS.

3. PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE II/V WITH A MAXIMUM WATER/CEMENT RATIO (W/C) OF 0.45.

4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED OVER REINFORCING STEEL IN CAST-IN-PLACE CONCRETE, UNLESS NOTED

• CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH = 3"

• FORMED CONCRETE EXPOSED TO EARTH OR WEATHER = 2" SECURELY TIE ANCHOR BOLTS, REINFORCING STEEL, INSERTS, ETC. IN

PLACE PRIOR TO PLACING CONCRETE. 6. CONCRETE SLUMP SHALL NOT EXCEED 4". CONCRETE SHALL BE

TESTED AND PASS SLUMP TEST PRIOR TO PLACING CONCRETE.

1. FOAM SHALL BE CLOSED CELL POLYETHYLENE, ETHAFOAM 180, MANUFACTURED BY SEALED AIR, OR APPROVED EQUAL.

2. FOAM SHALL BE 1.8 LB/CF DENSITY.

COMPRESSION DEFLECTION PROPERTY OF 5% AT 5 PSI, 25% AT PSI, AND 50% AT 15 PSI

MARLBOROUGH INDUSTRIAL, 750 MARLBOROUGH AVENUE

GENERAL NOTES DATE: JULY 28, 2018 | PROJECT NO.: 18-006 SCALE: NONE

PIPE CROSSING SLAB DETAIL



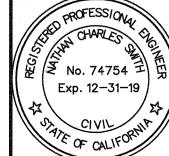
CAUTION:

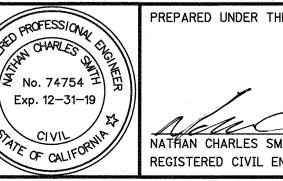
EXACT LOCATION OF EXISTING UNDERGROUND FACILITIES IS UNKNOWN. CONTRACTOR TO VERIFY IN FIELD.

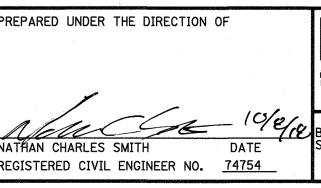
CITY OF RIVERSIDE

CITY OF RIVERSIDE PUBLIC UTILITIES DEPARTMENT

PUBLIC UTILITIES DEPARTMENT OVERHEAD & UNDERGROUND







R Engin	IC	K PANY	1770 IOWA AVENUE RIVERSIDE, CA 920 951.782.0707 (FAX)951.782.0723 San Diego - Orange - S	507		kersfield -	to the state of	engineering o - Phoenix - Ti	
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				IDE, CALIFORN DEPARTMENT
	APPROVED BY	BY	DATE	APPROVED BY
	PRINCIPAL ENGINEER	Ente	4016	M
	TRAFFIC DIVISION	L.H. 10	-15-18	
	ENGINEERING MANAGER			- XYIX W. FWY
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NEER TWO	STRUCTURAL SLAB	SHEET <u>5</u> OF <u>5</u>
14-12-19	SCALE	

HORIZ: N/A

VERT: N/A