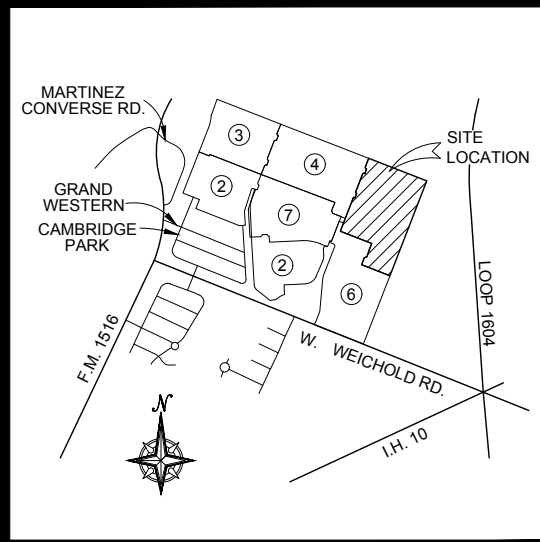
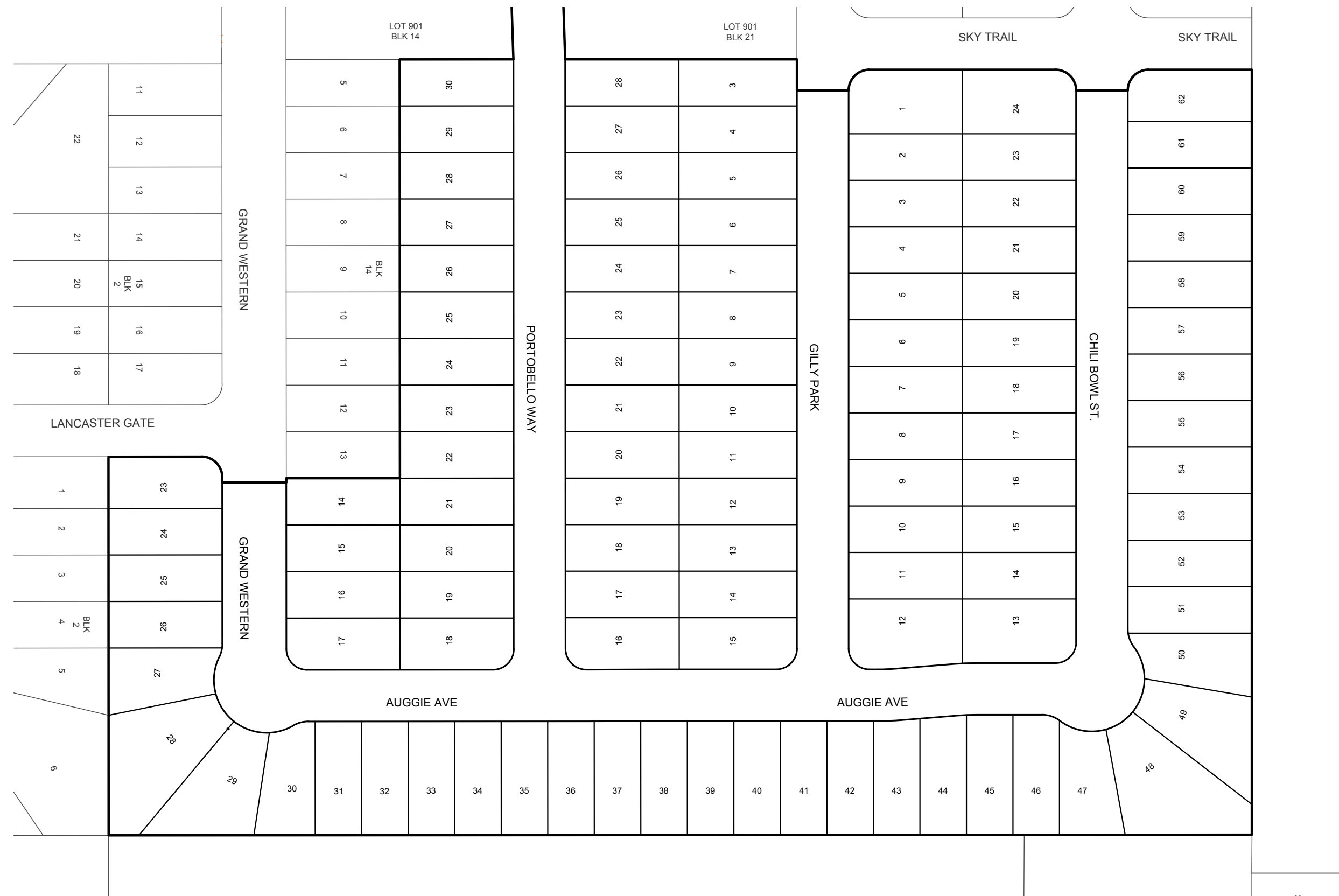


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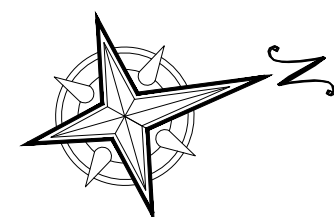
LOCATION MAP
NOT TO SCALE

CONSTRUCTION PLANS for NOTTING HILL UNIT 5



INDEX MAP

SCALE: 1"=100'



CIVIL ENGINEERING CONSULTANTS
d b a . D O N D U R D E N , I N C .
11550 IH 10 WEST, SUITE 395
SAN ANTONIO, TEXAS 78230-1037
TEL: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #F-2214 / #10041000

OWNER/DEVELOPER:
CASTLEROCK COMMUNITIES
2401 FOUNTAIN VIEW DRIVE, SUITE 215
HOUSTON, TEXAS 77057
PHONE: (713) 600-7060

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PLAT NO. 2021-224

DESIGNED BY:	L.T.E.
DRAWN BY:	L.T.E.
DATE:	10/2021
JOB NO.:	E0583607

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REGISTRATION #F-2214 / #10041000



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NOTTING HILL SUBDIVISION
UNIT 5
CONSTRUCTION COVER

SHEET NO.

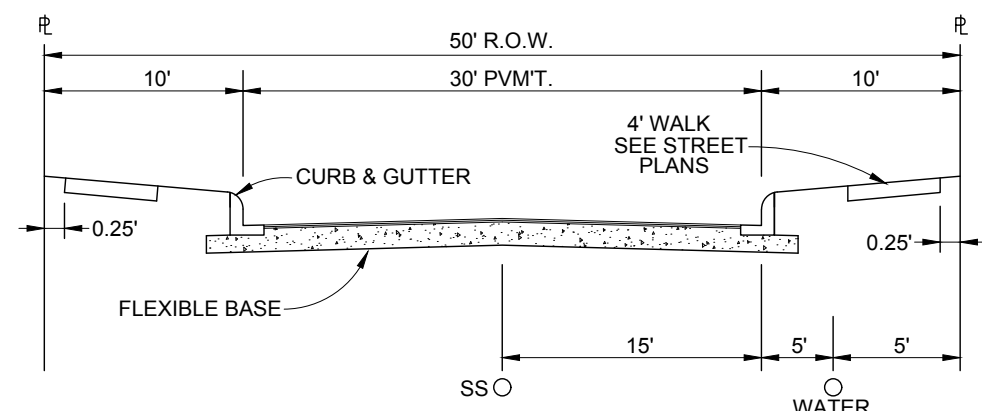
100

Date: May 28, 2023, 8:06am User: G:\Users\ltee\OneDrive\Projects\2021\EGS6072_Notting Hill Unit 5\Draws\EGS6072_100 CONSTRUCTION COVER.dwg

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NOTE:

1. 6" P.V.C. SCHEDULE 80 CONDUIT WILL BE REQUIRED FOR C.P.S. UTILITY CROSSING FROM ROW TO ROW AT A DEPTH OF 36" BELOW FINAL GRADE, WHEN STREET OR DRAIN CONSTRUCTION PRECEDES UTILITY INSTALLATION.
2. 4" P.V.C. SCHEDULE 40 CONDUIT WILL BE REQUIRED FOR UNDERGROUND TELEPHONE AND CABLE T.V. FROM ROW TO ROW AT A DEPTH OF 36" BELOW FINAL GRADE, WHEN STREET OR DRAIN CONSTRUCTION PRECEDES UTILITY INSTALLATION.
3. P.V.C. CONDUIT SHALL HAVE 90° SWEEPS/BENDS TO 6" ABOVE GRADE WITH CAP. IF CONDUIT IS NOT INSTALLED 6" ABOVE FINAL GRADE IT SHALL BE CONTRACTORS RESPONSIBILITY TO UNDERCOVER CONDUIT ENDS FOR EACH UTILITY PROVIDER AS NECESSARY.
4. IF OWNER ELECTS TO HAVE DRY UTILITIES INSTALLED PRIOR TO STREET CONSTRUCTION NO CONDUIT FOR CPS & CABLE TV WILL BE INDICATED ON THIS PLAN. IF CONTRACTOR ELECTS TO PROCEED WITH ANY PORTION OF DRAIN CONSTRUCTION PRIOR TO UTILITY INSTALLATION, THEN CONTRACTOR WILL BE REQUIRED TO INSTALL ALL DRY UTILITY CONDUIT REQUIRED AT EACH DRAIN CROSSING AT NO EXTRA PAY.



TYPICAL LOCAL "A" STREET SECTION
NOT TO SCALE

LEGEND

EXISTING EDGE OF PAVEMENT	=====
EXISTING SANITARY SEWER MAIN	——E8"SS——>
PROPOSED SANITARY SEWER MAIN	——P8"SS——>
EXISTING WATER MAIN	——E8"PVC——>
PROPOSED WATER MAIN	——P8"PVC——>
EXISTING GAS MAIN	——G——>
PROPOSED GAS MAIN	——G——>
EXISTING UNDERGROUND TELEPHONE	——T——>
PROPOSED UNDERGROUND TELEPHONE	——T——>
EXISTING UNDERGROUND ELECTRIC	——E——>
PROPOSED UNDERGROUND ELECTRIC	——E——>
EXISTING OVERHEAD ELECTRIC	——O.E.——>
PROPOSED OVERHEAD ELECTRIC	——O.E.——>
EXISTING OVERHEAD TELEPHONE	——O.T.——>
PROPOSED OVERHEAD TELEPHONE	——O.T.——>
EXISTING UNDERGROUND CABLE T.V.	——T.V.——>
PROPOSED UNDERGROUND CABLE T.V.	——T.V.——>
EXISTING OVERHEAD CABLE T.V.	——O.T.V.——>
PROPOSED OVERHEAD CABLE T.V.	——O.T.V.——>
SANITARY SEWER MANHOLE	●
FIRE HYDRANT	⬢
GAS, ELECTRIC, TELEPHONE & CABLE T.V. EASEMENT	=====
PROPOSED STREET LIGHT (100 WATT/SINGLE ARM)	● L.P.
PROPOSED STREET LIGHT (250 WATT/SINGLE ARM)	● L.P. (250)
EXISTING STREET LIGHT	⬢ E.L.P.
HIGH DENSITY POLYETHYLENE	H.D.P.E.
EXISTING SANITARY SEWER LATERAL	SS
SANITARY SEWER LATERAL	SS
WATER SERVICE	W
IRRIGATION SERVICE	IS

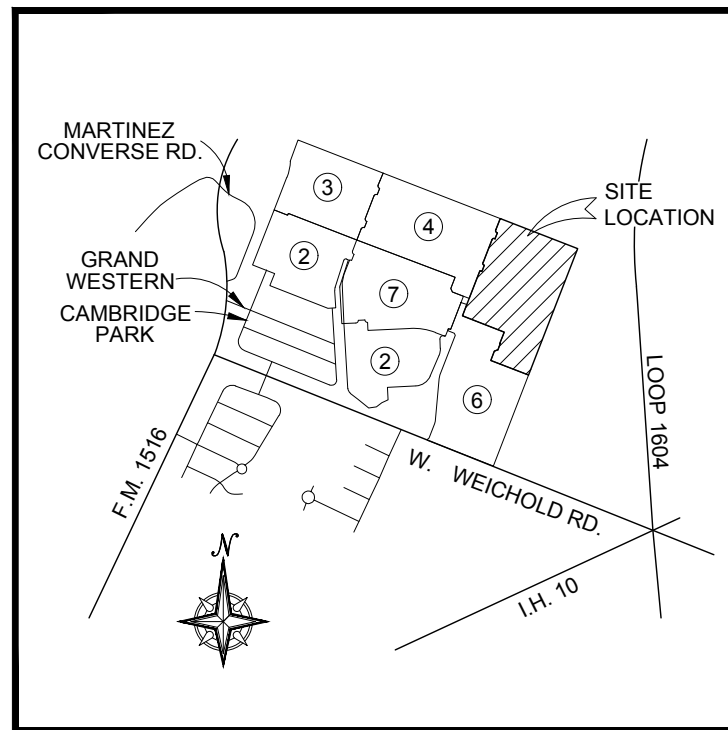
TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION, SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.



CIVIL ENGINEERING CONSULTANTS
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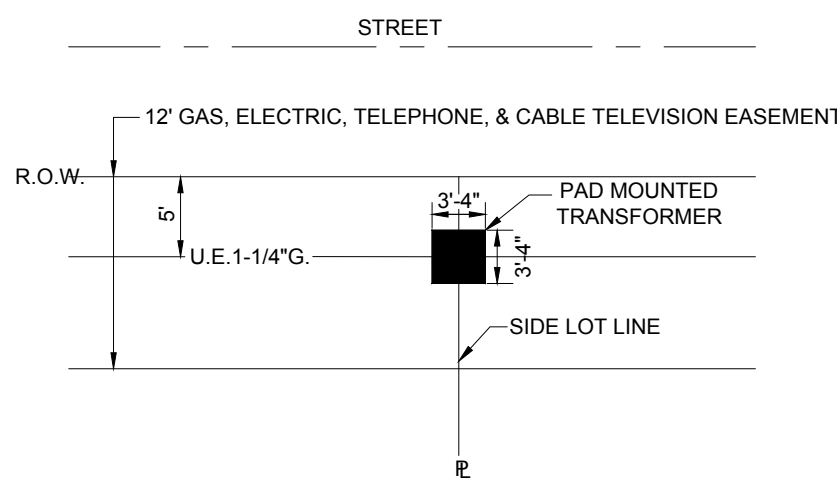
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CASTLEROCK COMMUNITIES
2401 FOUNTAIN VIEW DRIVE, SUITE 215
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PHONE: (713) 600-7060



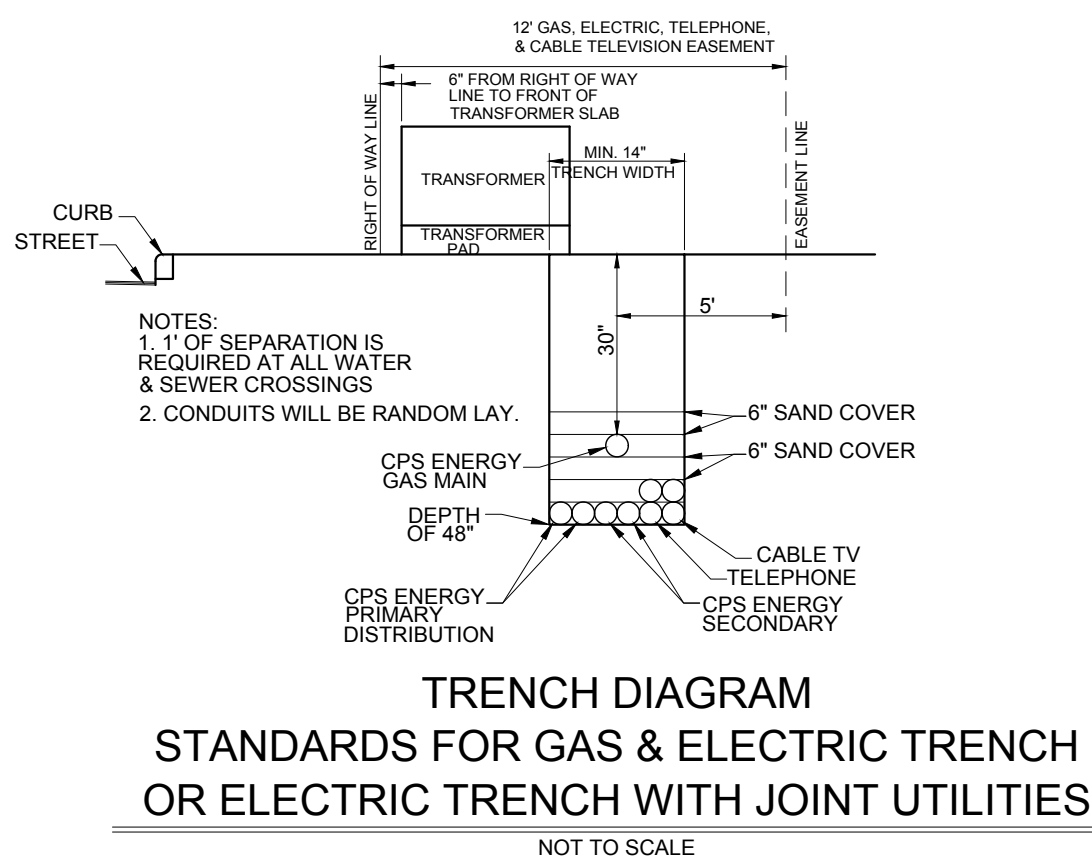
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SHEET INDEX

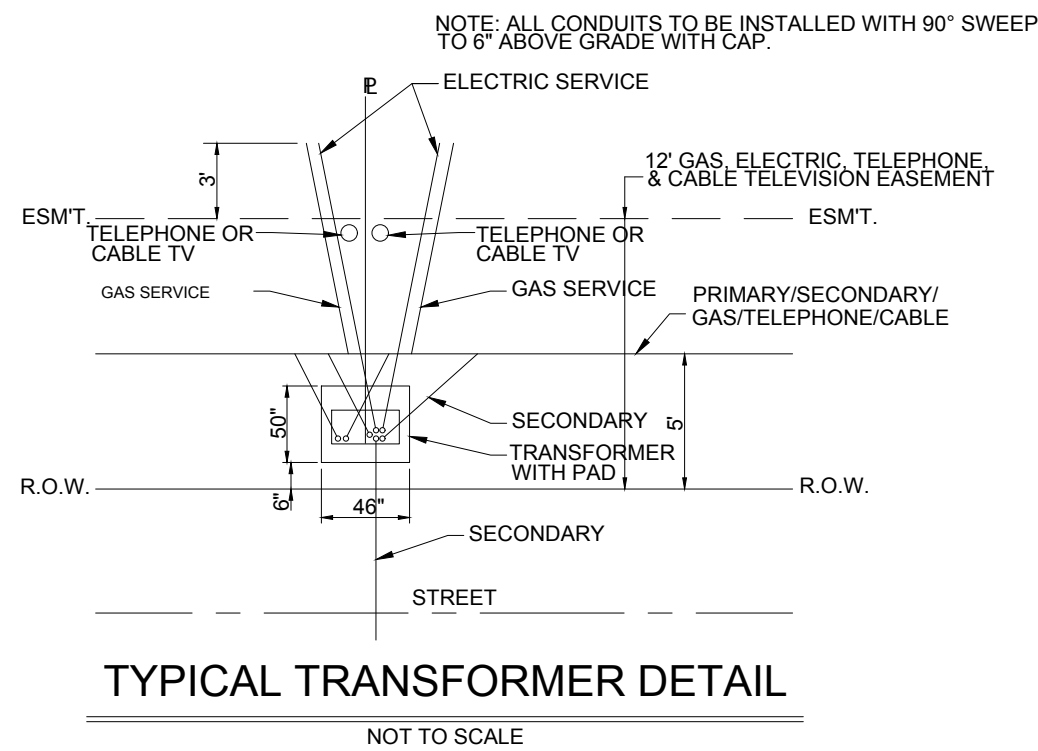
SHEET	TITLE
200	UTILITY COVER
201	UTILITY OVERALL PLAN



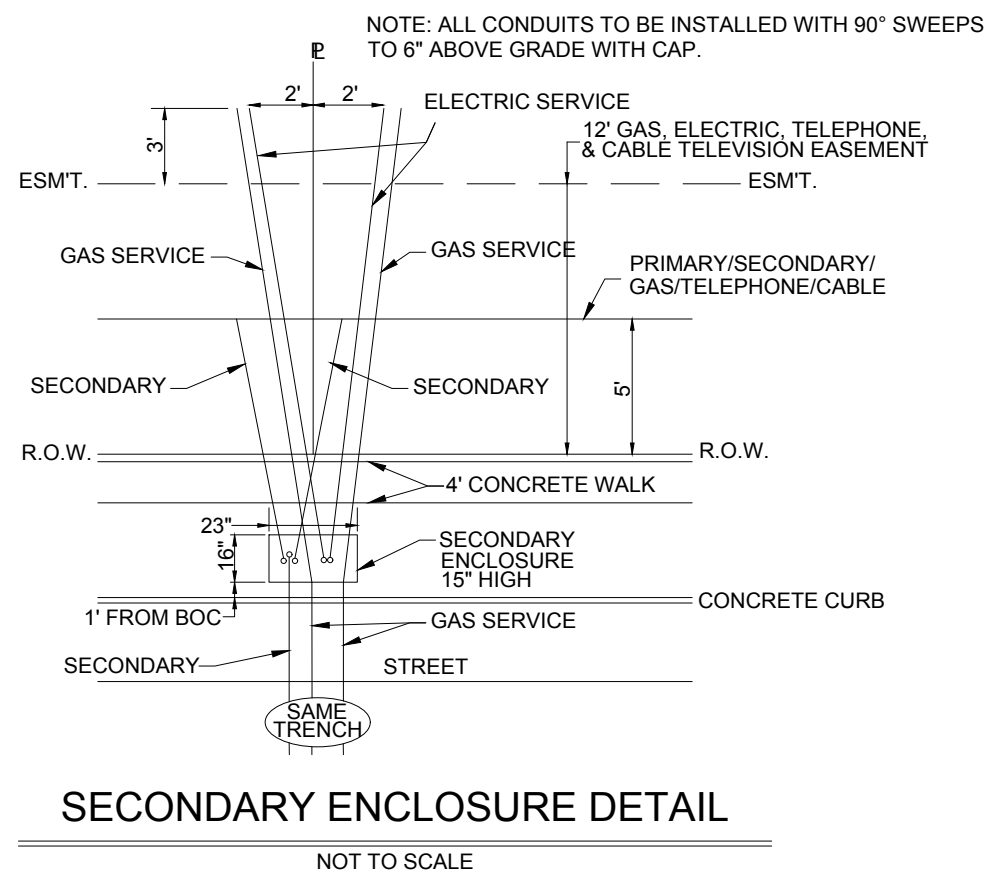
EASEMENT DETAILS
NOT TO SCALE



TRENCH DIAGRAM
STANDARDS FOR GAS & ELECTRIC TRENCH
OR ELECTRIC TRENCH WITH JOINT UTILITIES
NOT TO SCALE



TYPICAL TRANSFORMER DETAIL
NOT TO SCALE



SECONDARY ENCLOSURE DETAIL
NOT TO SCALE

PLAT NO. 2021-224

DESIGNED BY:	D.V.B.
DRAWN BY:	D.V.B.
DATE:	10/2021
JOB NO.:	E0583807

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NOTTING HILL SUBDIVISION
UNIT 5

UTILITY COVER


SHEET NO.

200

Date: May 28, 2025, 8:45am User: C:\Users\jking\Desktop\Projects\2021\CEC\863807_Notting Hill Unit 5\Draws\CEC\863807_200_UTILITY COVER.dwg

LEGEND

EXISTING SANITARY SEWER MAIN	
PROPOSED SANITARY SEWER MAIN	
PROPOSED SEWER LATERAL	
DIRECTION OF FLOW	
EXISTING WATER MAIN	
PROPOSED WATER MAIN	
PROPOSED LIGHT POLE (100 WATT LED)	
PROPOSED WATER SERVICE / METER	



SEPARATION DISTANCE AND PROTECTION REQUIREMENTS TO COMPLY WITH
30 TAC 280.44 (e) AND 30 TAC 217.53 (d) (FORMERLY 30 TAC 317.13 APPENDIX E)

TYPICAL SANITARY SEWER WATER CROSSING DETAIL

NOT TO SCALE



TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTORS INDEPENDENTLY RETAINED EMPLOYEE OF STRUCTURAL DESIGN/ENGINEERING/TECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL, REVIEW THESE PLANS AND AVAILABLE GEOLOGICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO DETERMINE THE PRESENCE OF ANY SUBSURFACE OBSTACLES OR PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION, SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTORS INDEPENDENTLY RETAINED EMPLOYEE(S) SHALL BE RESPONSIBLE FOR THE IDENTIFICATION OF ALL TRENCH PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

[illegible]

CONVERSE REVITALIZATION INITIATIVE LLC
1202 W BITTERS RD STE 1200 BLDG I
SAN ANTONIO, TX 78216
(VOL. 18500, PG. 0181) DPR

LORENZO RICARDO M. & EMMA
9289 WEICHOLO
CONVERSE, TX 78109
PEDRO HERNANDEZ SUBD
BLK 1 LOT 5
(VOL. 12057, PG. 1428) DPR

GARCIA EZEQUIEL D & MARIA I
6903 CELES MEADOW DR
CONVERSE, TX 78109
PEDRO HERNANDEZ SUBD
BLK 1 LOT 4
(VOL. 14379, PG. 2068) DPR

GARCIA EZEQUIEL D & MARIA
6803 CELES MEADOW DR
CONVERSE, TX 78109
PEDRO HERNANDEZ SUBD
BLK 1 LOT 4
(VOL. 14379, PG. 2068) DPR

SOSA ALICIA & ERNESTO
9285 WEICHOLO
CONVERSE, TX 78109
PEDRO HERNANDEZ SUBC
BLK 1 LOT 3
(VOL. 6220, PG. 0059) DPR

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SANITARY SEWER CONSTRUCTION PLANS for NOTTING HILL UNIT 5

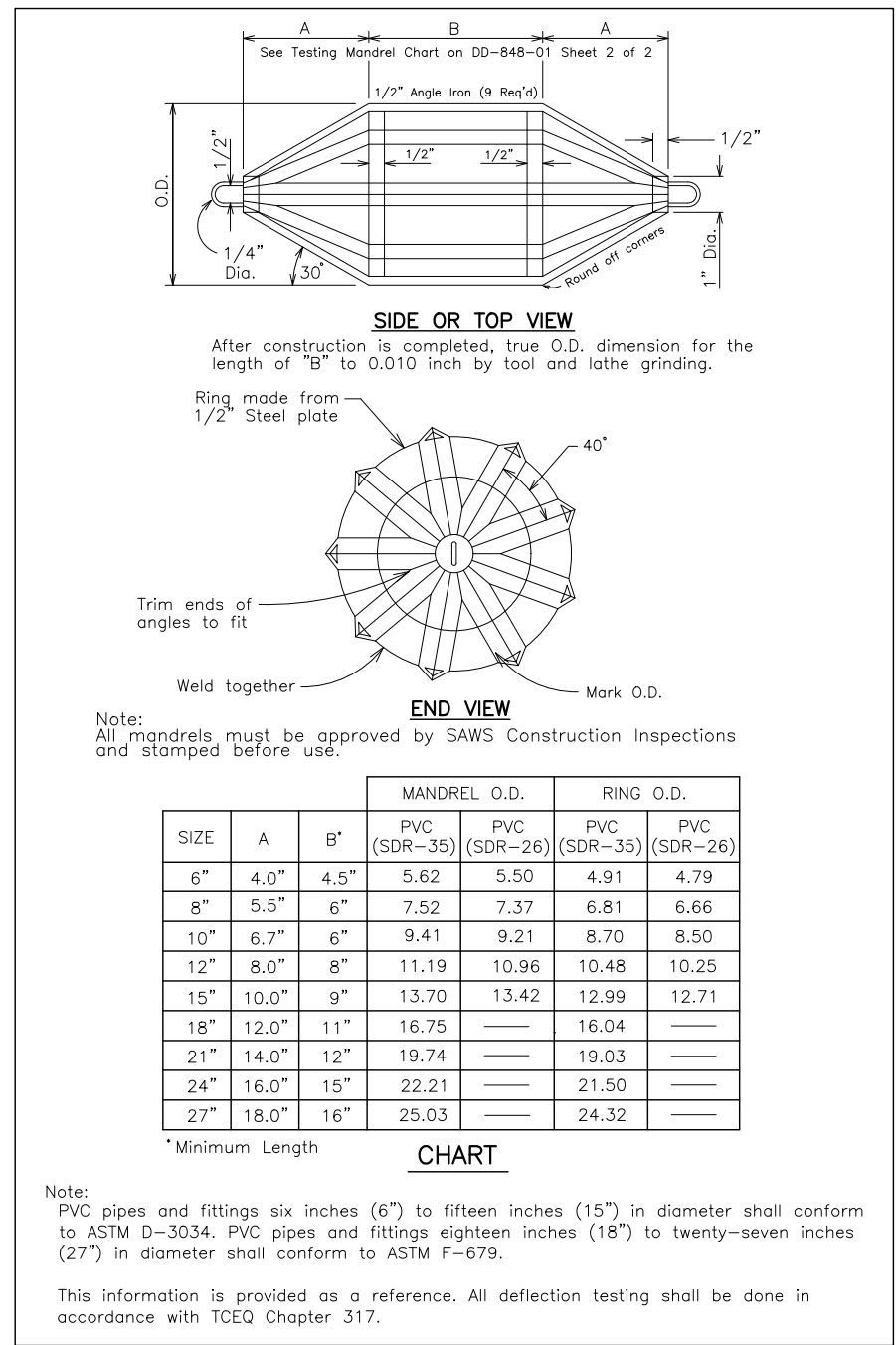
PLAT NO. 2021-224

DESIGNED BY: D.V.B.
DRAWN BY: D.V.B.
DATE: 10/2021
JOB NO.: E0583807

CIVIL ENGINEERING CONSULTANTS
d b a . D O N D U R D E N , I N C .
15550 FOUNTAIN VIEW DRIVE, SUITE 335
SAN ANTONIO, TEXAS 78230-1037
TEL: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #F-2214 / #10041000

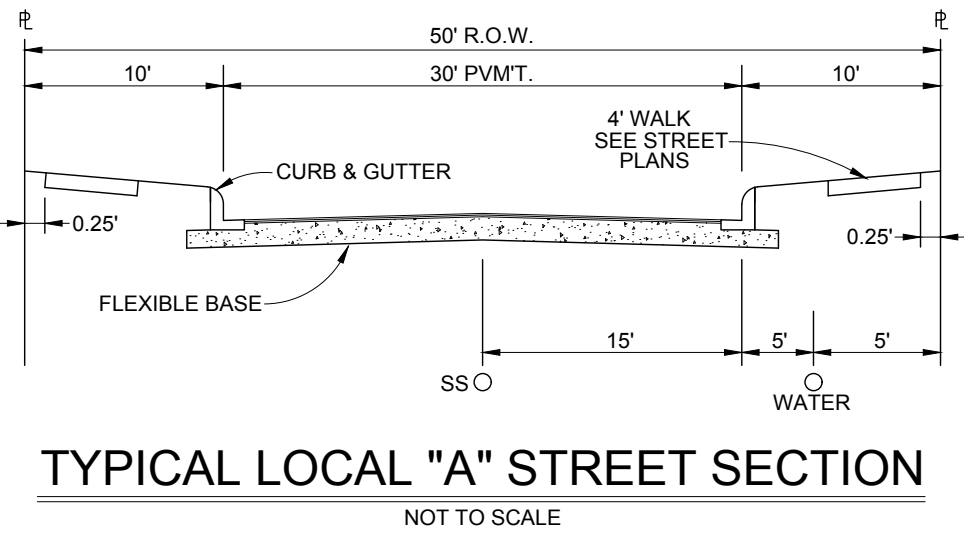


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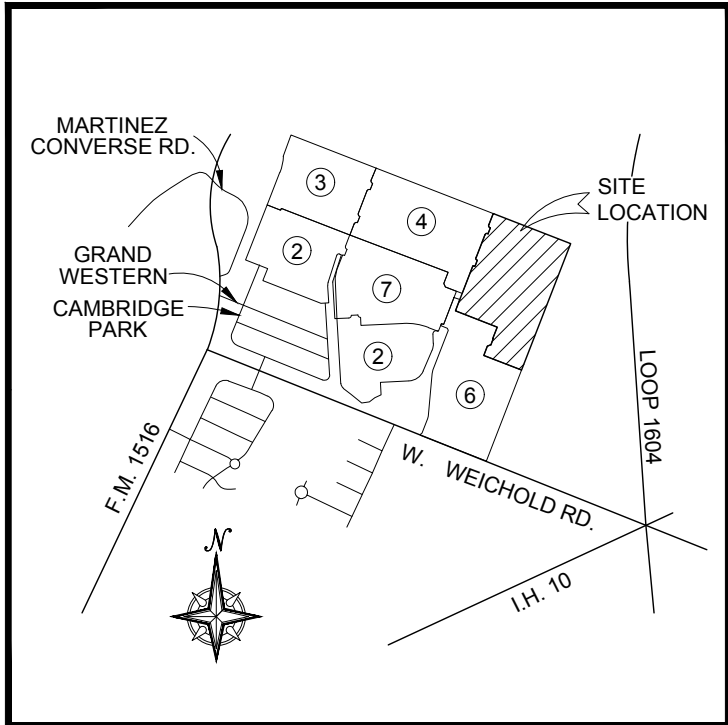


GO, NO GO DEFLECTION
TEST MANDREL
NOT TO SCALE

NOTE:
THE DEVELOPER DEDICATES THE SANITARY SEWER MAINS UPON COMPLETION BY THE DEVELOPER AND ACCEPTANCE BY SAN ANTONIO RIVER AUTHORITY "SARA". SARA WILL OWN AND MAINTAIN SAID SANITARY SEWER MAINS WHICH ARE LOCATED WITHIN THIS PARTICULAR SUBDIVISION.



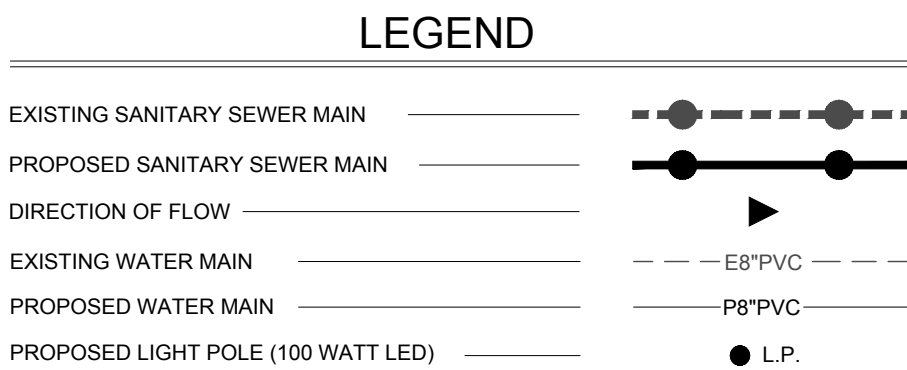
- SARA NOTES:**
- San Antonio River Authority is hereby dedicated the easements and rights-of-way for wastewater collection and treatment facilities in the areas designated on this plat as "wastewater easement" for the purpose of installing, constructing, reconstructing, operating, maintaining, removing and inspecting wastewater pipelines and collection facilities and all necessary above-ground or below-ground appurtenances, together with the right of ingress and egress over grantor's adjacent land, the right to relocate said facilities within said easement and right-of-way areas and the right to remove from said land all trees and vegetation or parts thereof, or other obstructions which endanger or may interfere with the function of said facilities. No structures, concrete slabs or walls may be placed within said easement areas, and San Antonio River Authority shall have the right to enter the easement areas and remove such structures.
 - The developer dedicates the wastewater collection and treatment facilities to San Antonio River Authority upon developer's completion of construction and acceptance by the San Antonio River Authority. The San Antonio River Authority will own and maintain said facilities, which are located within the particular subdivision plat.
 - Any San Antonio River Authority monetary loss resulting from modifications made to San Antonio River Authority infrastructure and service facilities located within said easements, due to grade changes or ground elevation alterations shall be charged to the person or persons deemed responsible for said grade changes or ground elevation alterations.
 - Wastewater EDU note: The number of wastewater equivalent dwelling units (EDUs) paid for the subdivision plat is kept on file at the San Antonio River Authority under the plat number.



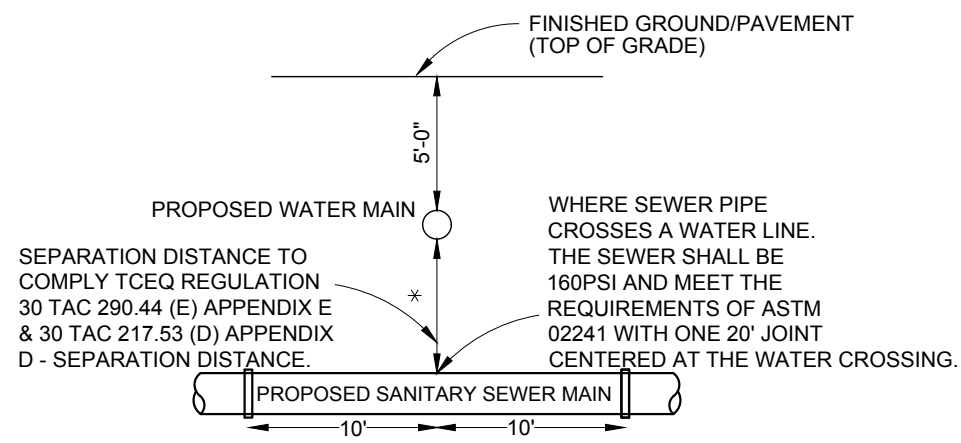
LOCATION MAP
NOT TO SCALE

SHEET	TITLE
300	SANITARY SEWER COVER
301	OVERALL SANITARY SEWER
302	SANITARY SEWER LINE A & LINE C PLAN & PROFILE
303	SANITARY SEWER LINE B PLAN & PROFILE
304	SANITARY SEWER LINE D PLAN & PROFILE
305	SANITARY SEWER LINE E PLAN & PROFILE
306	SANITARY SEWER DETAILS
307	SANITARY SEWER NOTES
308	SANITARY SEWER NOTES

SEWER QUANTITIES			
Onsite Sewer			
Item No.	Description	Unit	Quantity
550.0	Trench Excavation Safety Protection	L.F.	6803
848.0	8" PVC Sanitary Sewer Line (6'-8") (SDR 26)	L.F.	1938
848.0	8" PVC Sanitary Sewer Line (8'-10") (SDR 26)	L.F.	832
848.0	8" PVC Sanitary Sewer Line (10'-12") (SDR 26)	L.F.	20
852.1	Sanitary Sewer Manhole (0'-6") (Watertight/ Unless Specified Vented)	EA.	6
852.2	Sanitary Sewer Drop Manhole (0'-6") (Watertight/ Unless Specified Vented)	EA.	1
852.3	Extra Depth Manholes (>6')	V.F.	22.9
854.0	Sanitary Sewer Laterals (6")	L.F.	4013
854.1	6" Two-Way Sanitary Sewer Clean Out	EA.	107
855.0	Reconstruct & Tie Into Existing Manhole	EA.	1
858.0	Concrete Encasement, Cradles, Saddles and Collars	CY.	2.4
860.0	Vertical Stacks (Includes Tee, Bends, and Wyes)	V.F.	37.8
866.0	Sewer Main Television Inspection (8" - 15")	L.F.	2790



- NOTES**
- ALL RESIDENTIAL SEWER SERVICE LATERALS SHALL BE CAPPED AND SEALED.
 - LATERALS TO LOTS THAT SLOPE AWAY FROM STREET SHALL BE SLOPED FROM THE TEE OR STACK AT 2% THROUGH THE G E T T V E LOCATED IN THE FRONT OF THE LOT.
 - ALL SEWER PIPE TO BE SDR 26 UNLESS OTHERWISE NOTED.
 - CONTRACTOR TO INSURE LATERALS AT PROPOSED DRY UTILITY CROSSINGS ARE LOCATED AT A DEPTH TO AVOID ANY CONFLICT WITH DRY UTILITY INSTALLATION.



TYPICAL SANITARY SEWER/
WATER CROSSING DETAIL
NOT TO SCALE

*SEPARATION DISTANCE AND PROTECTION REQUIREMENTS TO COMPLY WITH 30 TAC 290.44 (e) AND 30 TAC 217.53 (d) (FORMERLY 30 TAC 317.13 APPENDIX E)

TRENCH EXCAVATION SAFETY PROTECTION

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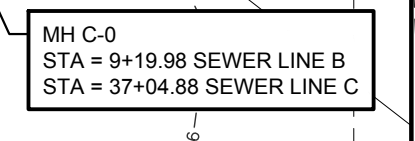
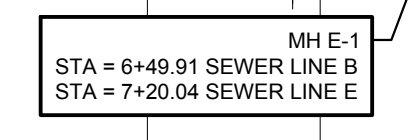
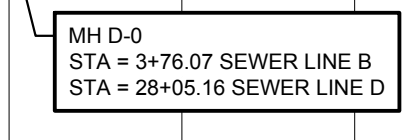
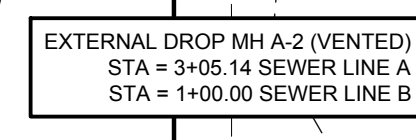
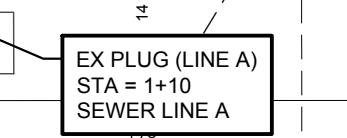
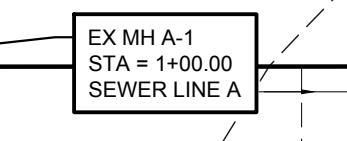
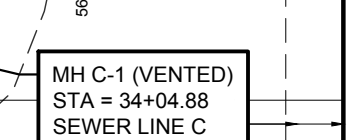
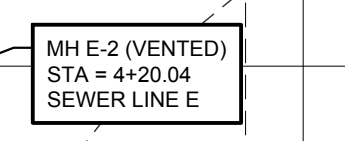
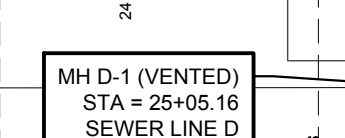
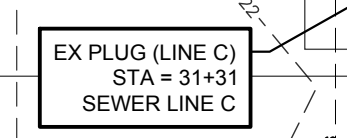
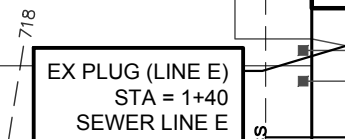
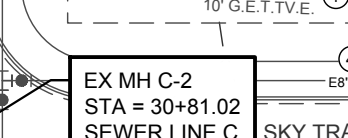
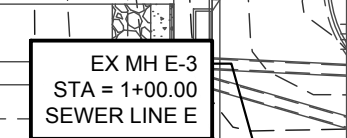
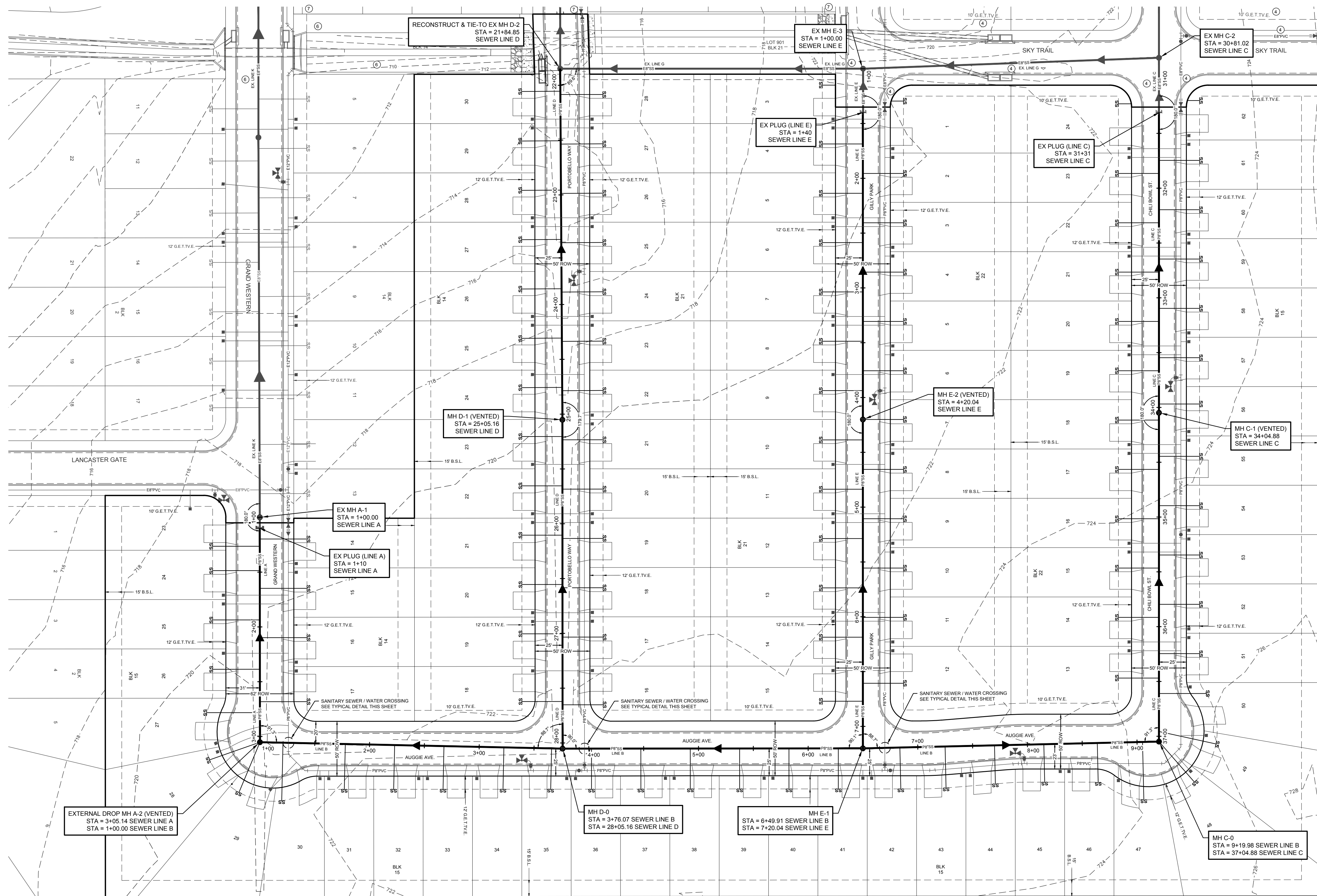
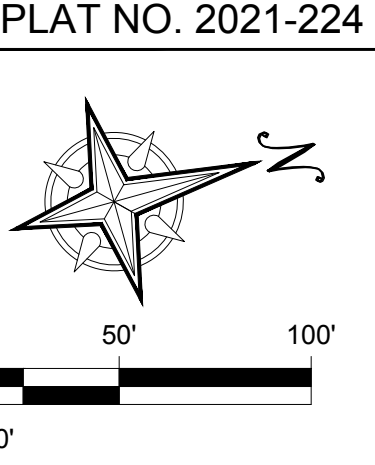
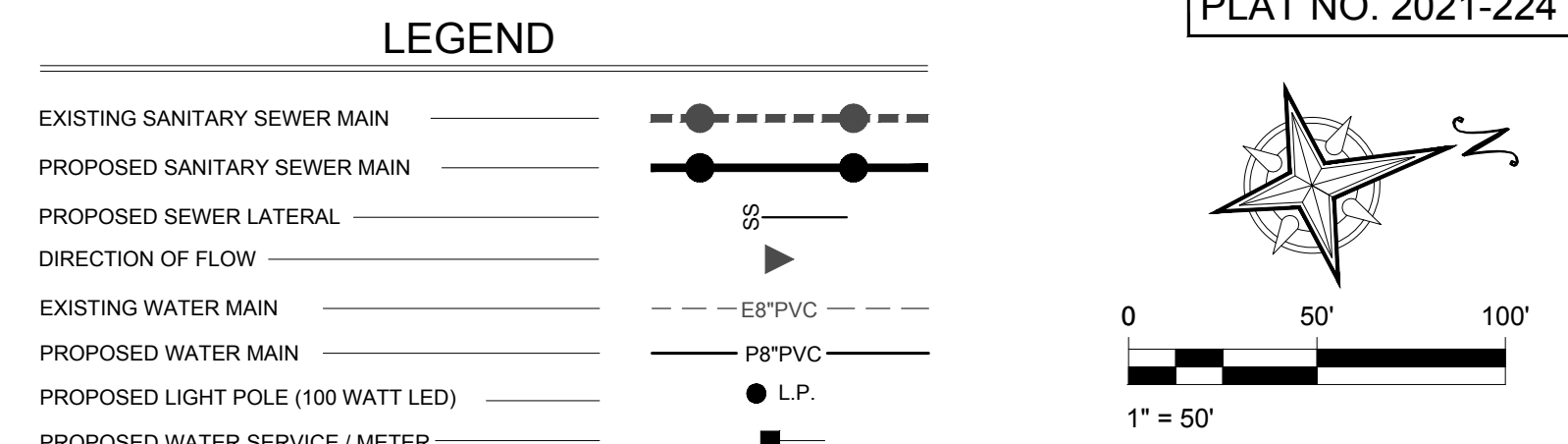
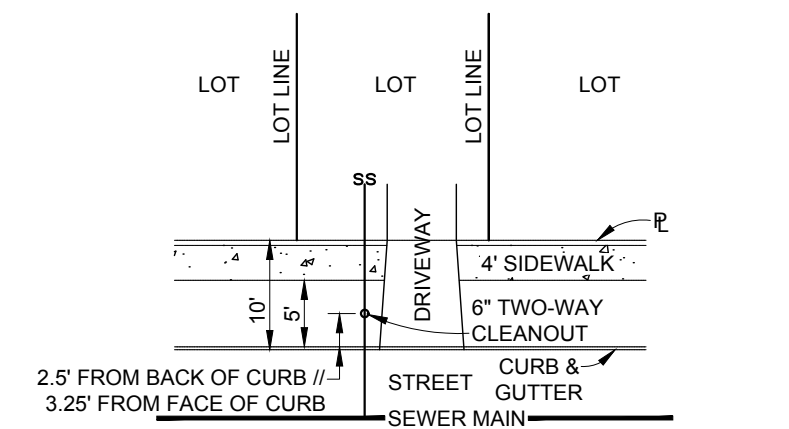
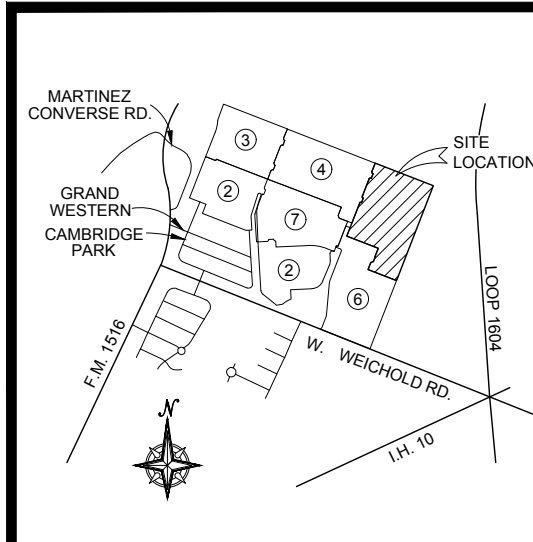
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2401 FOUNTAIN VIEW DRIVE, SUITE 215
HOUSTON, TEXAS 77057
PHONE: (713) 600-7060



CIVIL ENGINEERING CONSULTANTS
d b a . D O N D U R D E N , I N C .
11550 IH 10 WEST, SUITE 395
SAN ANTONIO, TEXAS 78230-1037
TEL: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #F-2214 / #10041000

NOTTING HILL SUBDIVISION
UNIT 5
SANITARY SEWER COVER

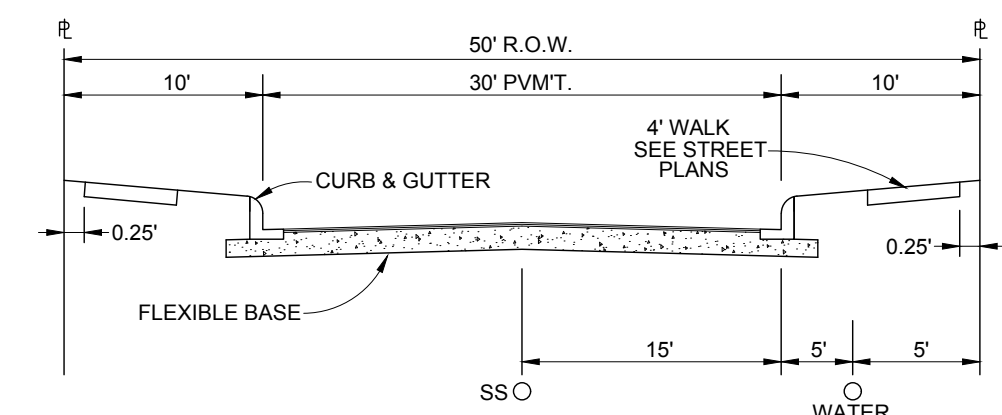
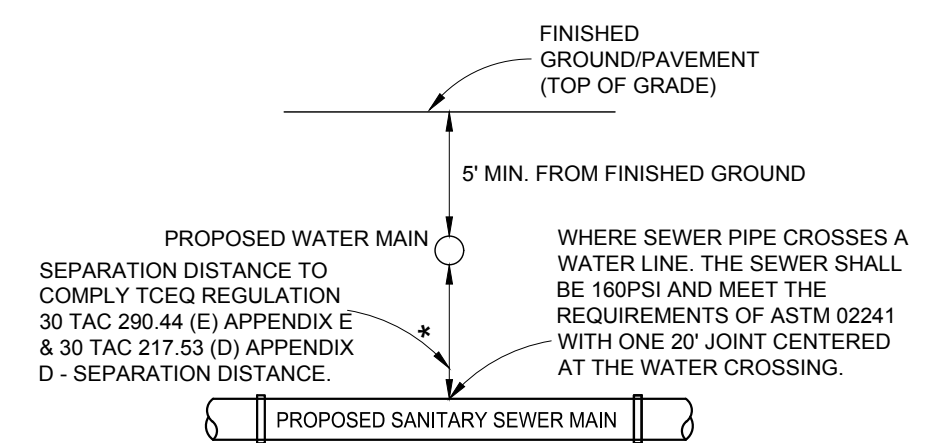
SHEET NO.
300



NOTES

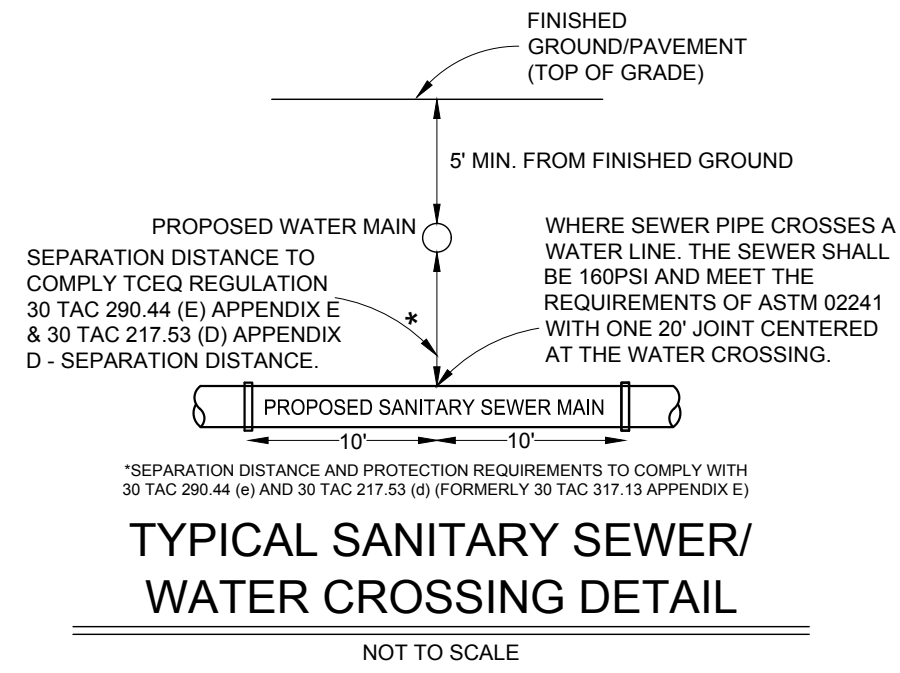
1. ALL RESIDENTIAL SEWER SERVICE LATERALS SHALL BE CAPPED AND SEALED.
2. LATERALS TO LOTS THAT SLOPE AWAY FROM STREET SHALL BE SLOPED FROM THE TEE OR STACK AT 2% THROUGH THE G.E.T.V.E LOCATED IN THE FRONT OF THE LOT.
3. ALL SEWER PIPE TO BE SDR-26 UNLESS OTHERWISE NOTED.
4. CONTRACTOR TO INSURE LATERALS AT PROPOSED DRY UTILITY CROSSINGS ARE LOCATED AT A DEPTH TO AVOID ANY CONFLICT WITH DRY UTILITY INSTALLATION.

EXISTING SANITARY SEWER MAIN TAPS NOTE:
 ANY EXISTING SEWER MAIN TAPS TO UTILIZE INSERTA-TEE OR APPROVED EQUAL.
 UTILIZE EXISTING TEES/WYES IF NOTED IN PLANS.

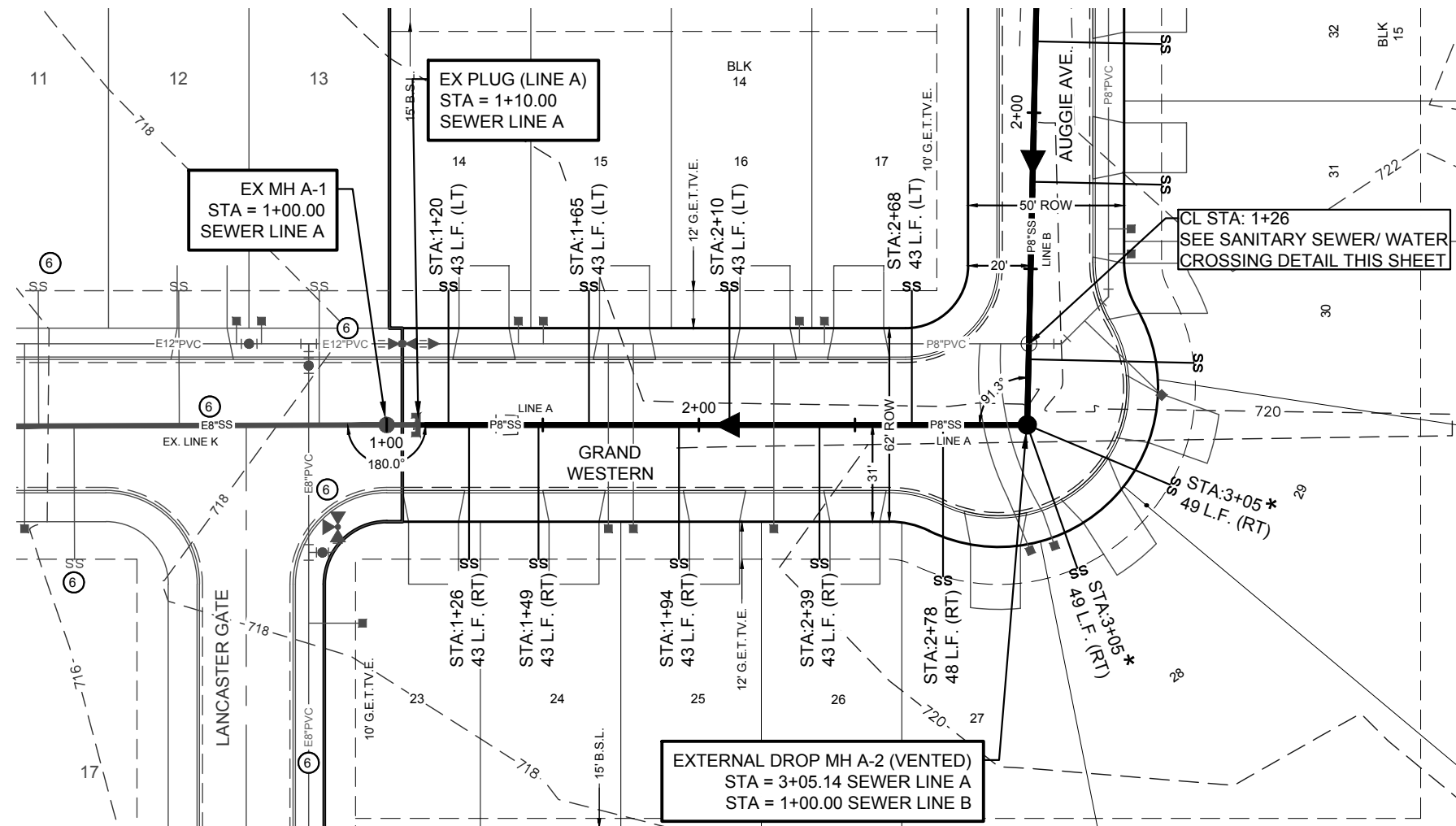


TRENCH EXCAVATION SAFETY PROTECTION
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL, REVIEW THESE PLANS AND ALL AVAILABLE GEOTECHNICAL INFORMATION AND SPECIFICATIONS AND INDEPENDENTLY DETERMINE WHETHER THE CONTRACTOR IS ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND PROCEDURES INCLUDING CONTRACTOR IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION, SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATION, SPECIFICALLY 29 CFR 1926.650 THROUGH 1926.654. IF THE CONTRACTOR'S RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE OF EXCAVATIONS, THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR TRENCH EXCAVATION

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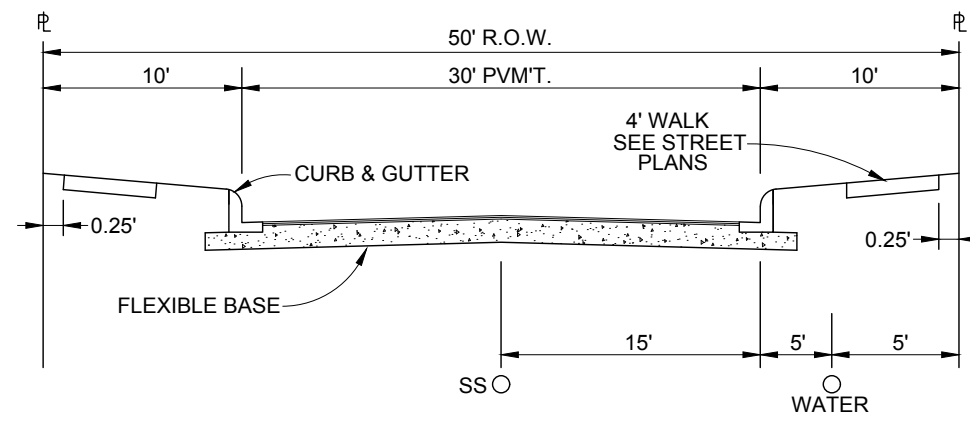
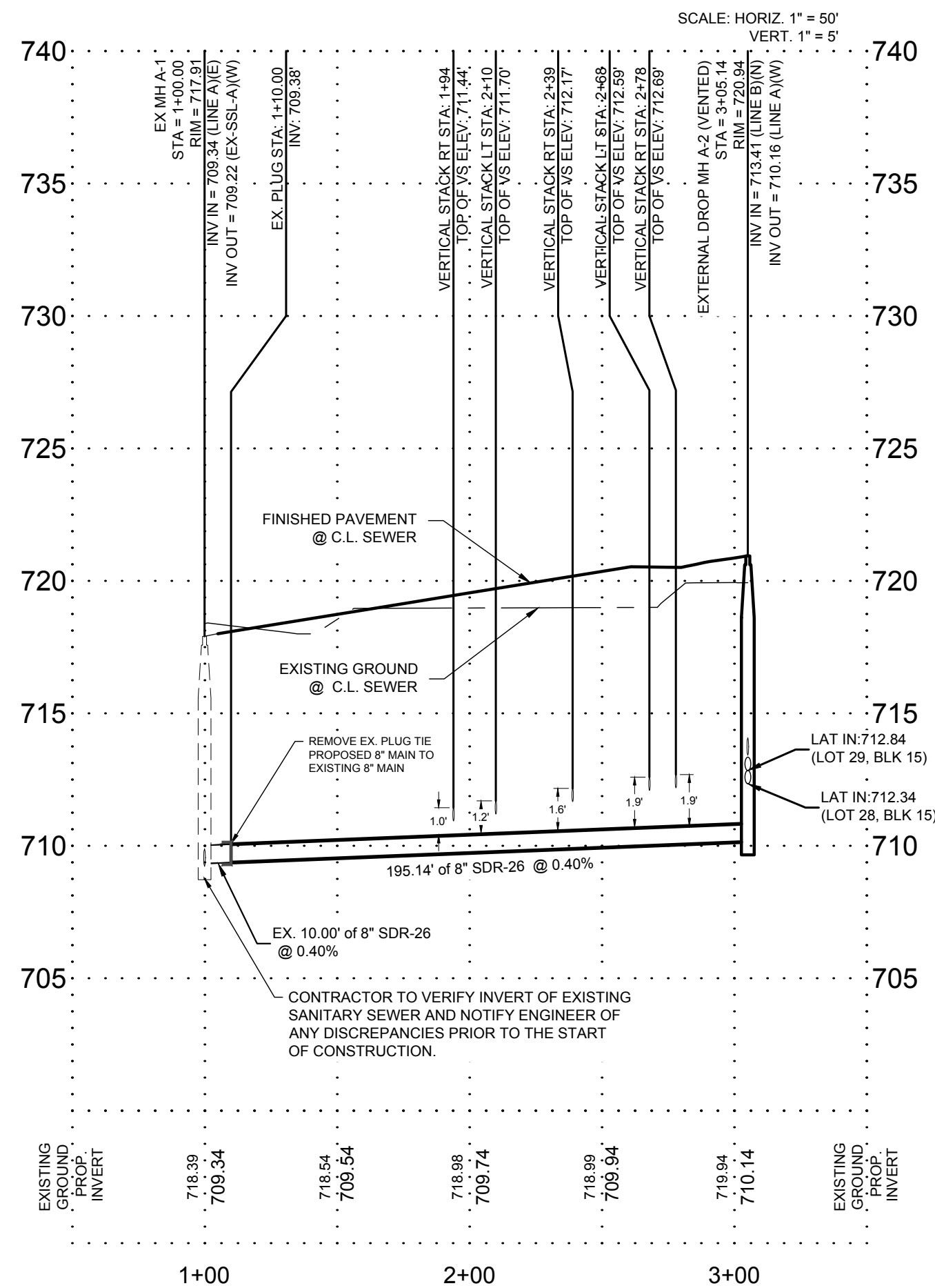
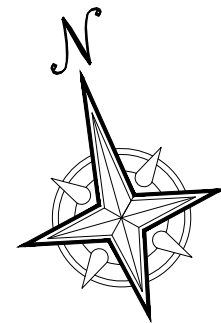


*** SANITARY SEWER LATERAL NOTE**
* CONTRACTOR TO INSTALL INTERNAL DROP MANHOLE FOR SEWER LATERAL CONNECTION.



SANITARY SEWER LINE "A"

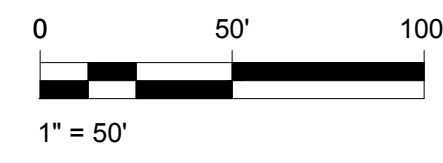
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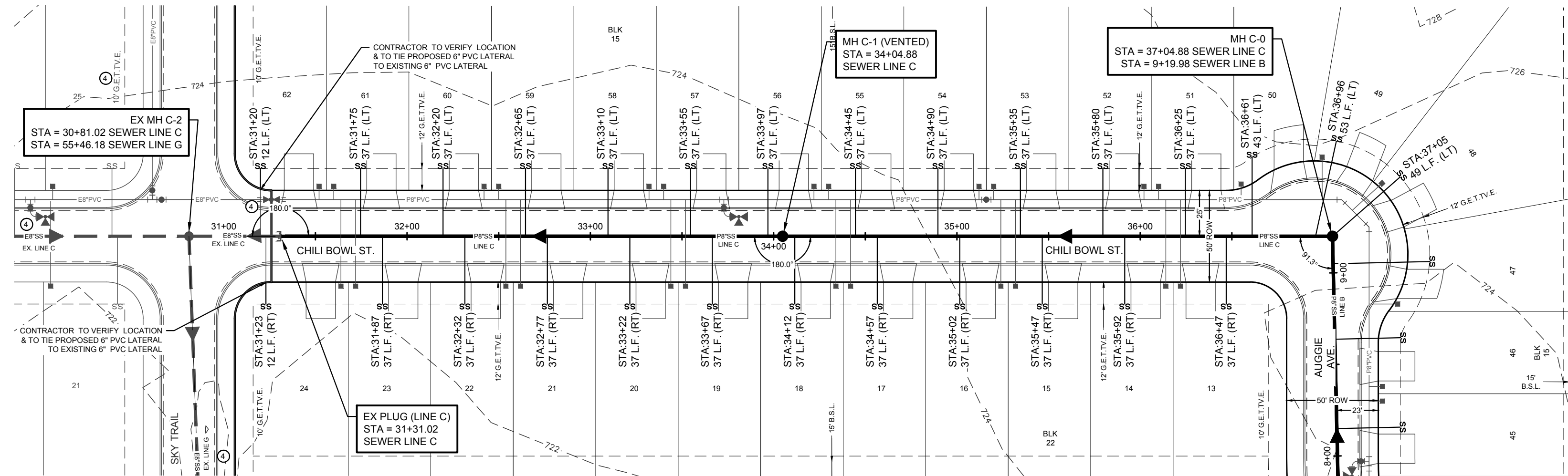
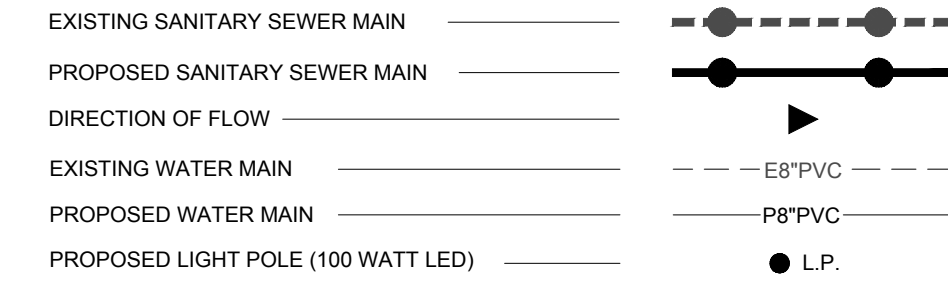
TRENCH EXCAVATION SAFETY PROTECTION

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- NOTES**
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 2. LATERALS TO LOTS THAT SLOPE AWAY FROM STREET SHALL BE SLOPED FROM THE TEE OR STACK AT 2% THROUGH THE G.E.I.T.V.E. LOCATED IN THE FRONT OF THE LOT.
 3. ALL SEWER PIPE TO BE SDR-26 UNLESS OTHERWISE NOTED.
 4. CONTRACTOR TO INSURE LATERALS AT PROPOSED DRY UTILITY CROSSINGS ARE LOCATED AT A DEPTH TO AVOID ANY CONFLICT WITH DRY UTILITY INSTALLATION.



LEGEND



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PURPOSES ONLY
NOT FOR CONSTRUCTION

[illegible]

NOTHING HILL SUBDIVISION
UNIT 5
SANITARY SEWER LINE B
PLAN & PROFILE

HEET NO.

303

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO DETERMINE THE APPROPRIATE EXCAVATION, SHIELDING, AND PROTECTIVE MEASURES, METHODS, AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION, SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT SHALL IMPLEMENT AND MAINTAIN A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

EXISTING SANITARY SEWER MAIN _____

PROPOSED SANITARY SEWER MAIN _____

DIRECTION OF FLOW _____

EXISTING WATER MAIN _____

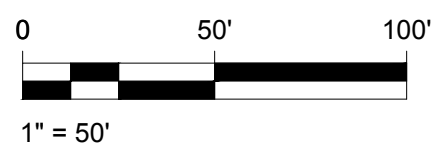
PROPOSED WATER MAIN _____

PROPOSED LIGHT POLE (100 WATT LED) _____

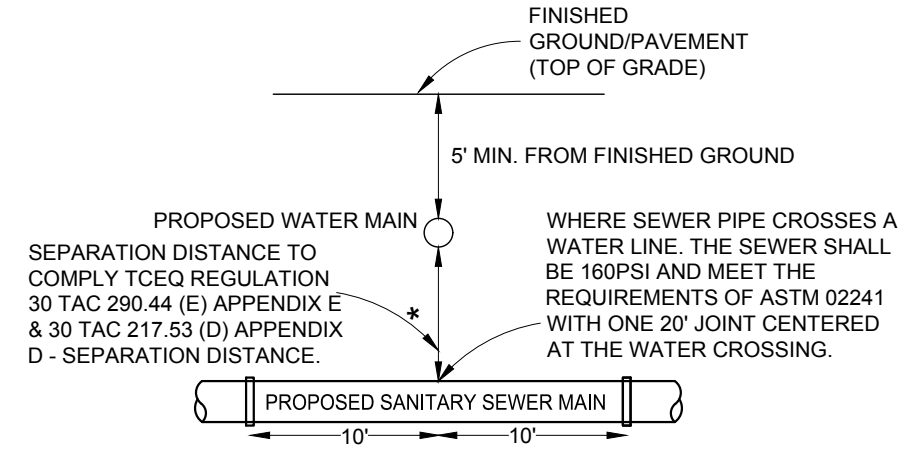
— — — — — E8" PVC — — — — —

— — — — — P8" PVC — — — — —

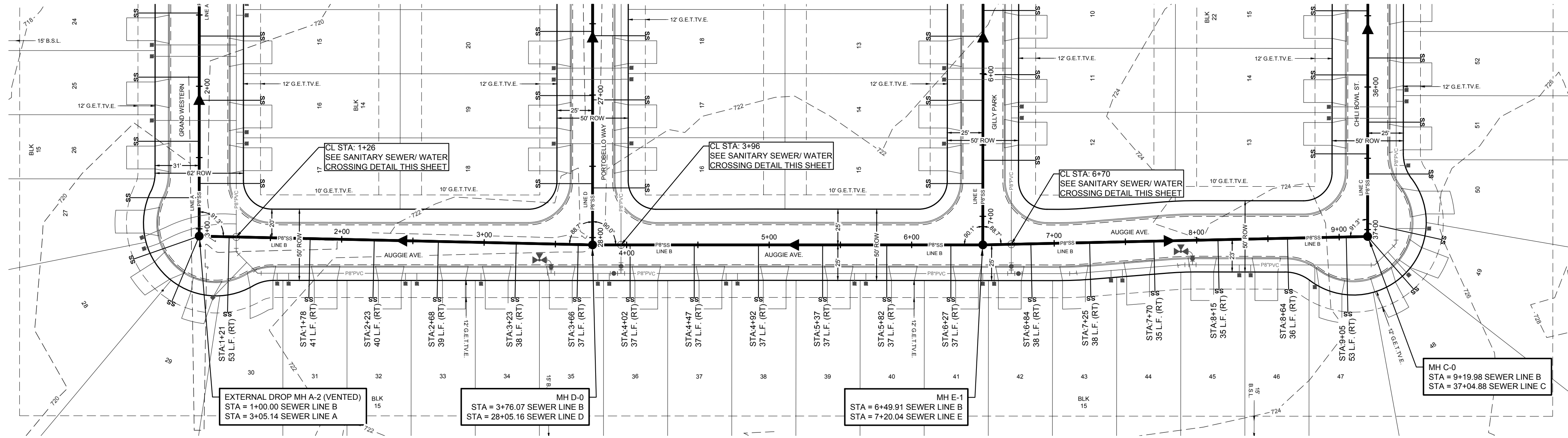
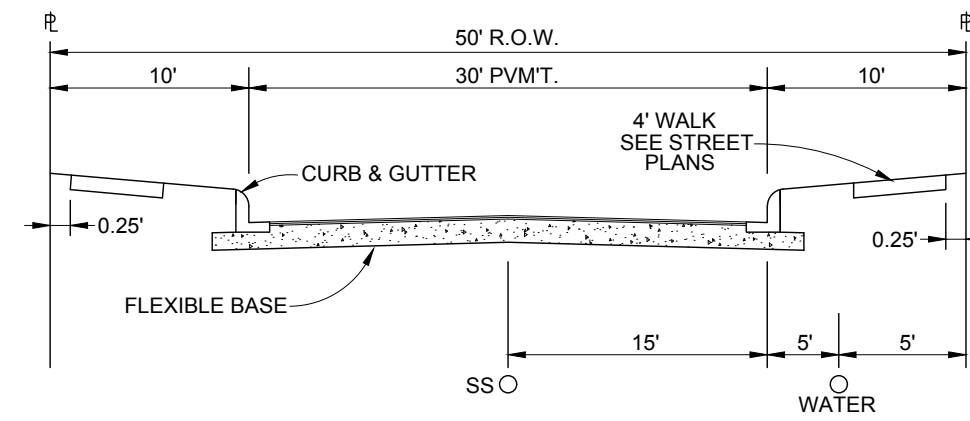
● L.P.



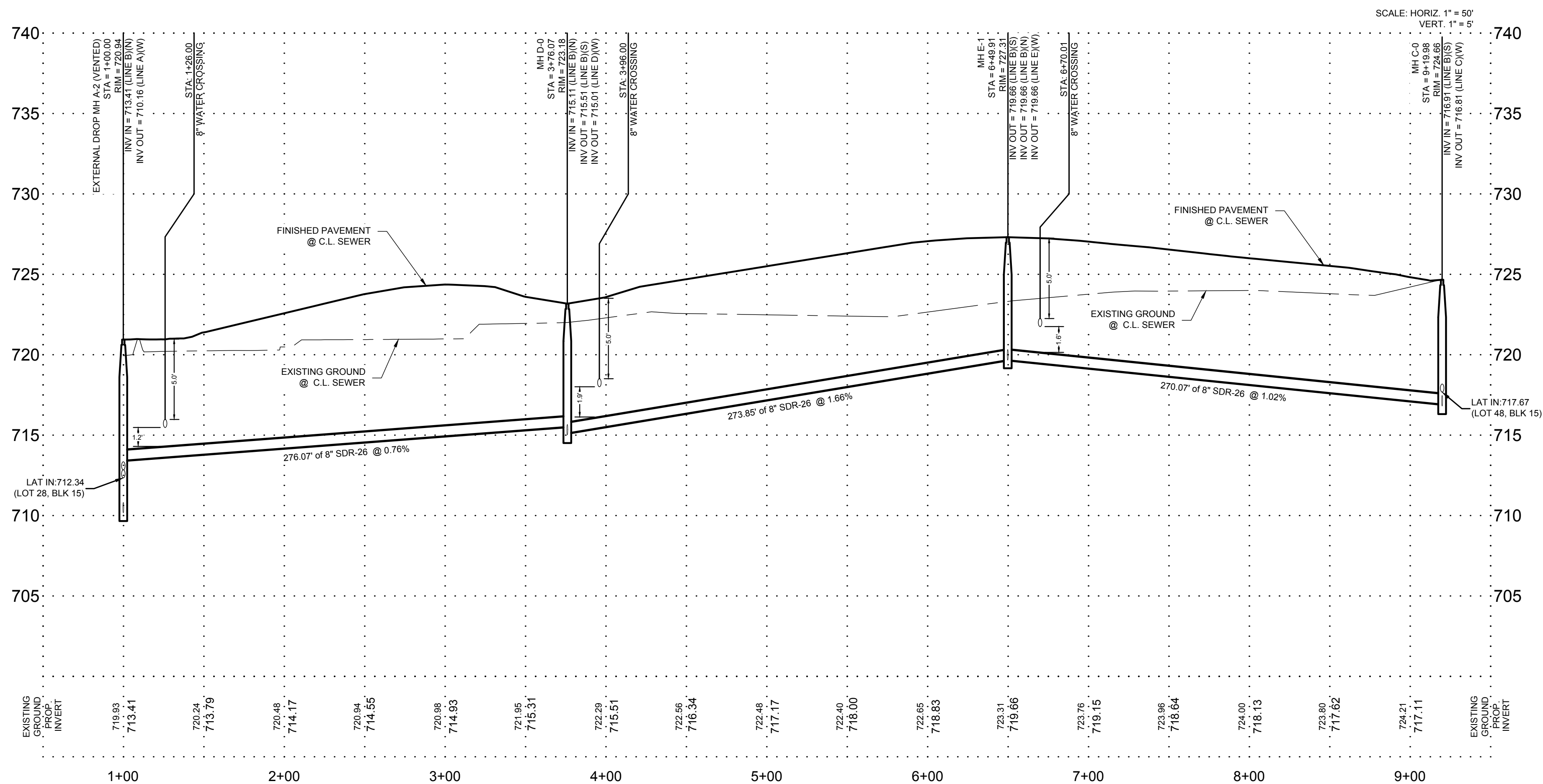
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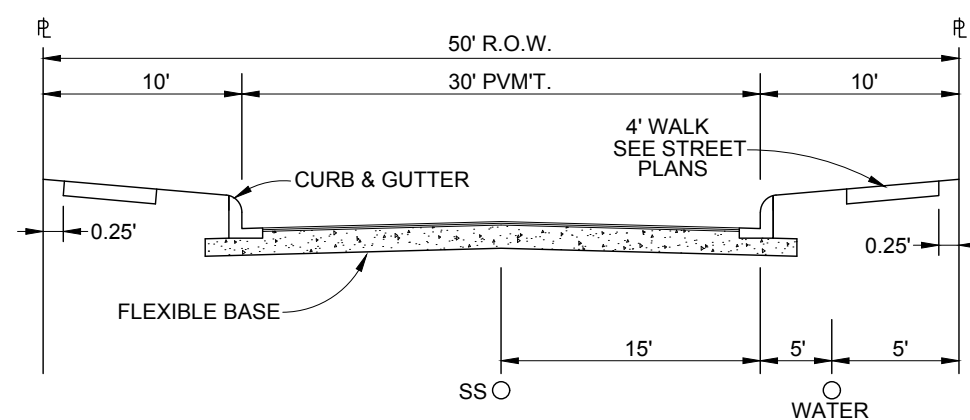


TYPICAL SANITARY SEWER/ WATER CROSSING DETAIL



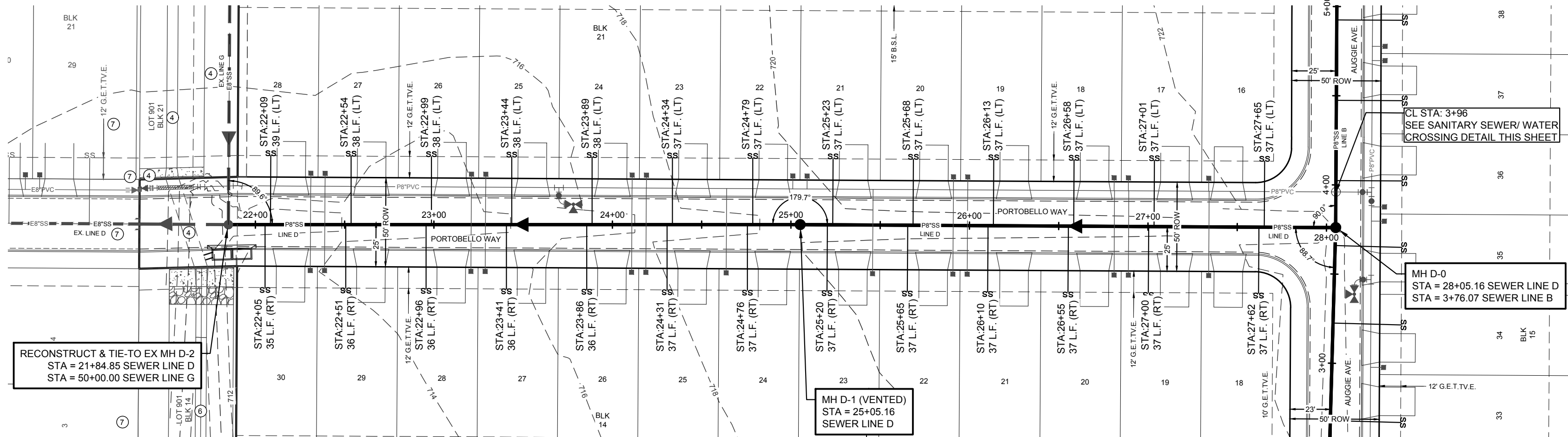
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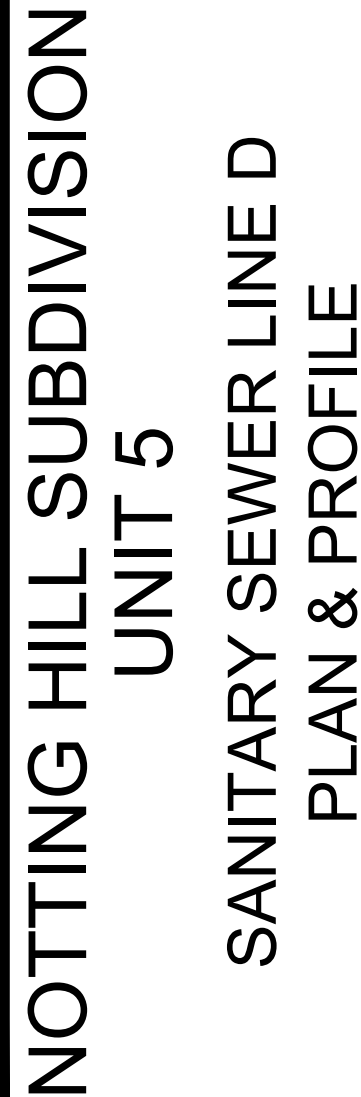


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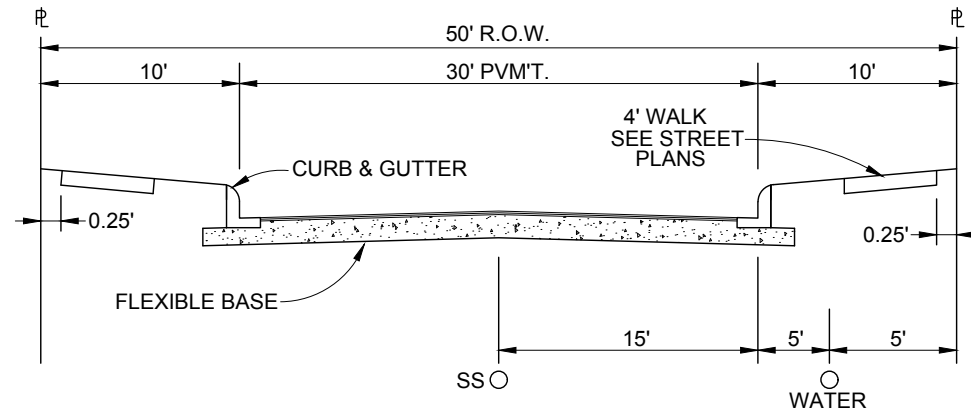
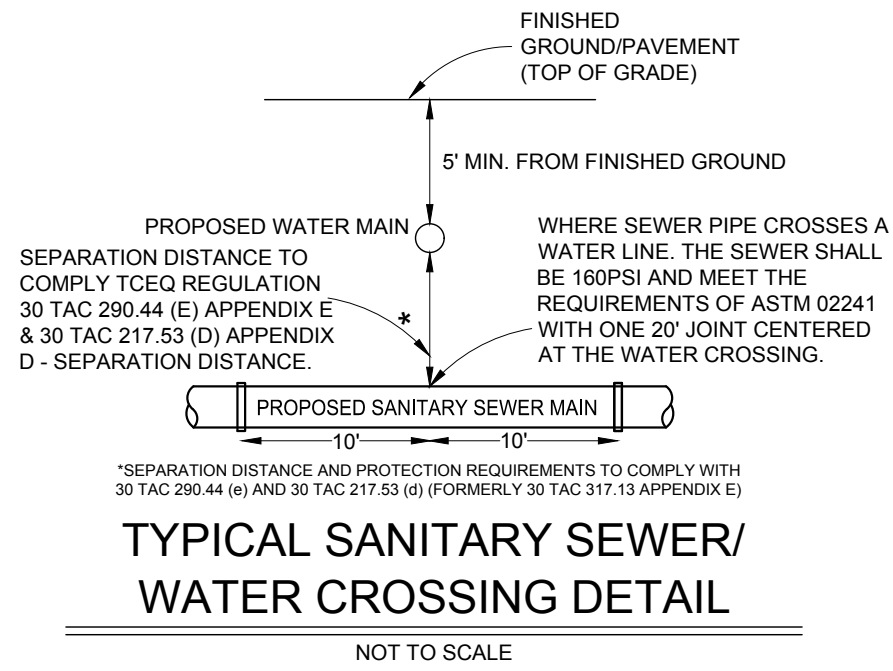
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STA. 21+84.85 TO STA. 28+05.16



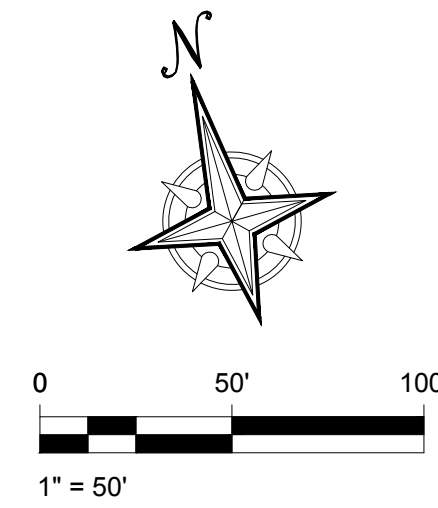
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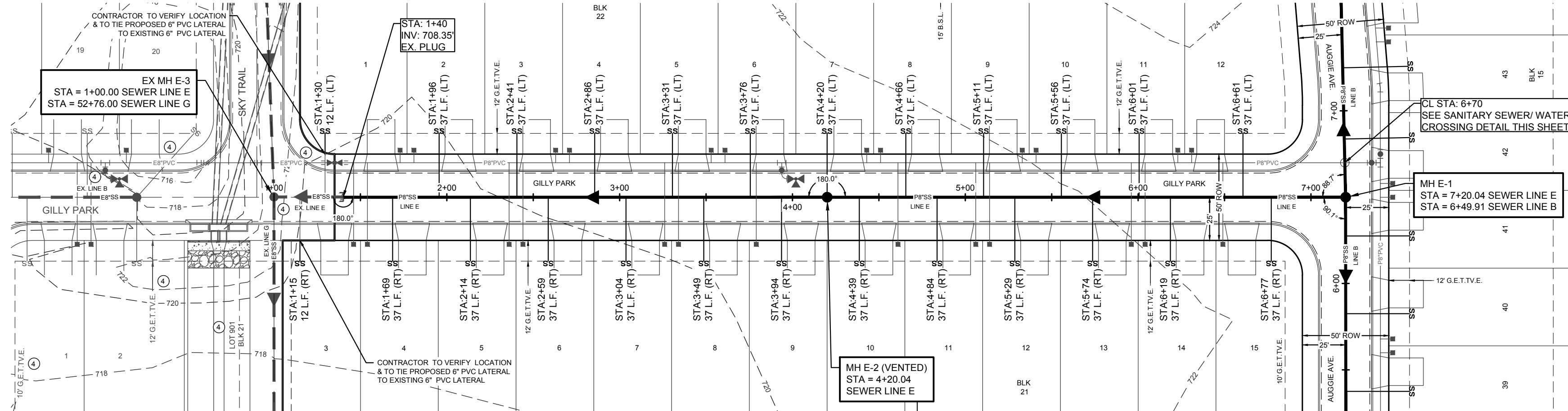
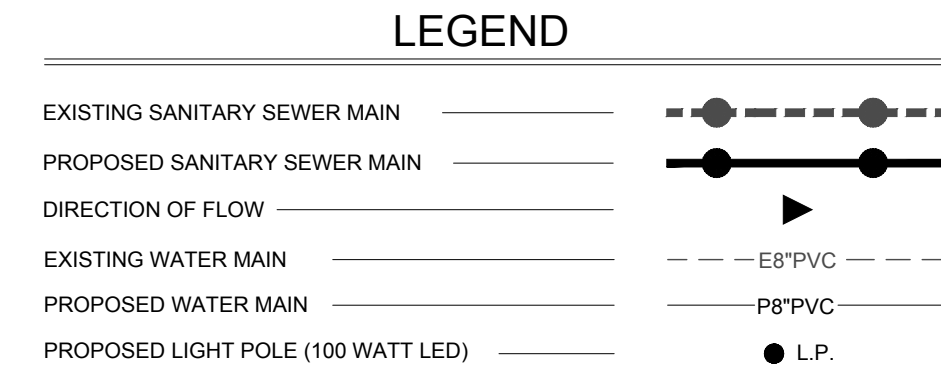
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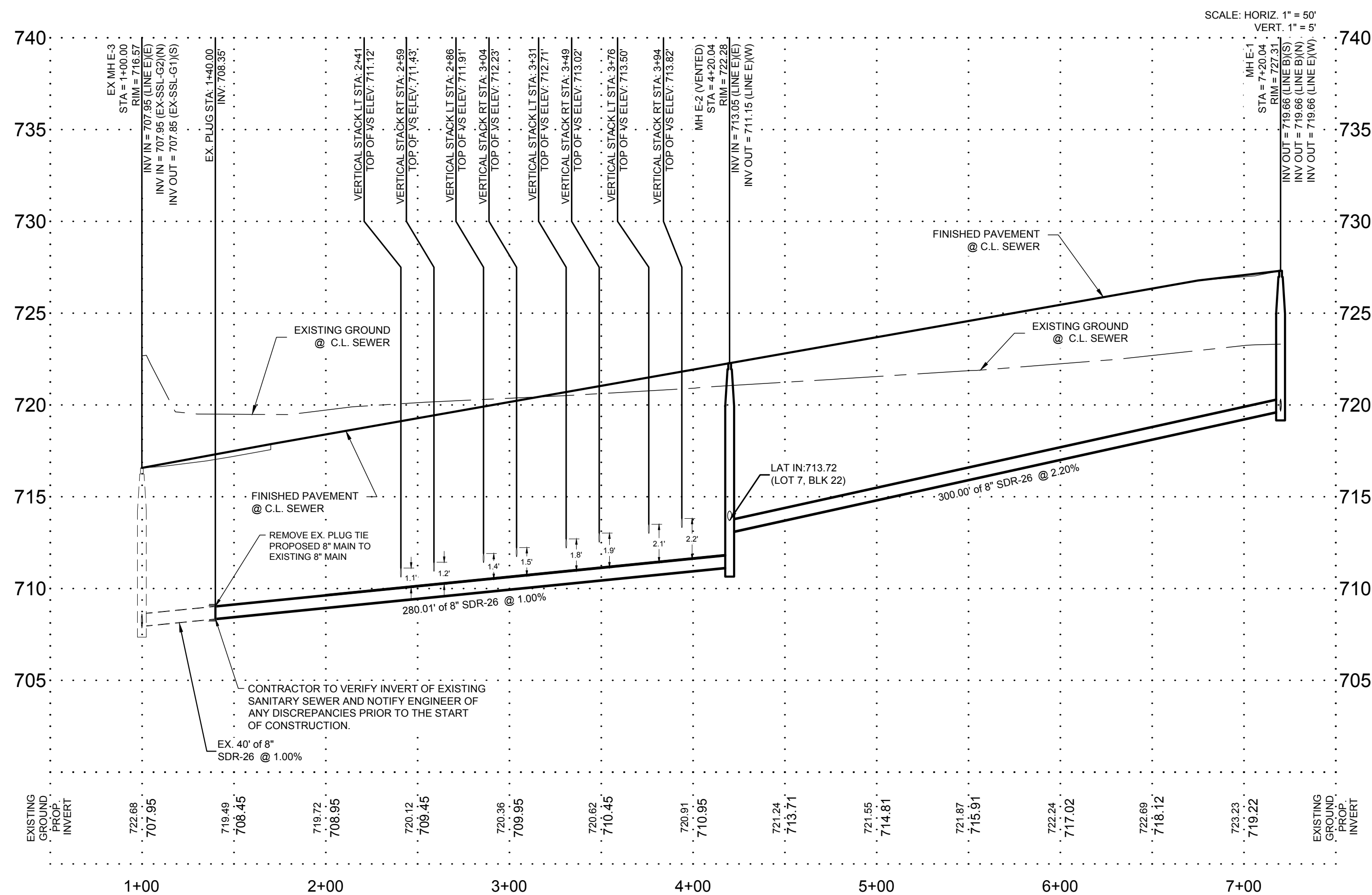


PLAT REFERENCE	
①	NOTTING HILL UNIT 4 - PLAT NO 2020-299 (CONCURRENT DEVELOPMENT)
②	NOTTING HILL UNIT 6 (VOL. 2000, PGS. 520-522, D.P.R.)
③	NOTTING HILL UNIT 7 (VOL. 2001, PGS. 1889, D.P.R.)



SANITARY SEWER LINE "E"

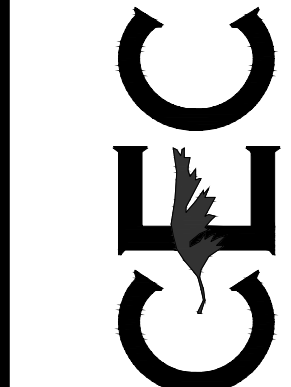
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NOTTING HILL SUBDIVISION
UNIT 5
SANITARY SEWER LINE E
PLAN & PROFILE

SHEET NO.
305

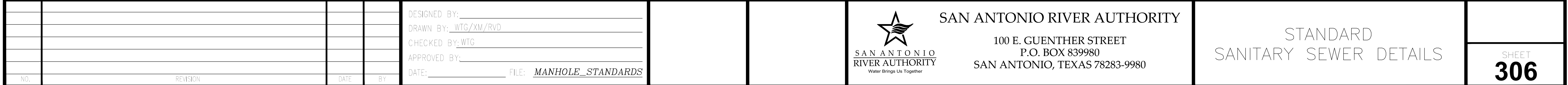
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NOT FOR CONSTRUCTION



CIVIL ENGINEERING CONSULTANTS
d b a . DON DURDEN, INC.
15550 FARMINGTON WEST SUITE 395
SAN ANTONIO, TEXAS 78240
TEL: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #F-2214 / #10041000

DESIGNED BY: D.V.B.
DRAWN BY: D.V.B.
DATE: 10/2021
JOB NO.: E0583607

PLAT NO. 2021-224



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PLAT NO. 2021-224

SAN ANTONIO RIVER AUTHORITY
SANITARY SEWER SYSTEM GENERAL NOTES

THE STANDARD SPECIFICATIONS AND DRAWING (DD) ARE PROVIDED AS A TECHNICAL RESOURCE FOR ENGINEERING PROFESSIONALS FOR USE IN DESIGN AND CONSTRUCTION OF SEWER COLLECTION SYSTEMS PROJECTS MANAGED AND CONTRACTED BY THE SAN ANTONIO RIVER AUTHORITY.

AT ANY TIME THESE SPECIFICATIONS AND DRAWING MAY BE ALTERED OR SUPERSEDED BY THE GENERAL CONDITIONS, SPECIFIC CONDITIONS, OR DRAWING WITHIN THE BID DOCUMENTS ISSUED FOR EACH PROJECT.

DECEMBER 9, 2010 - REVISE INTERCEPTORS TESTING
NOVEMBER 2, 2010 - REVISE SEWER PIPE SDR 35 TO SDR-26 ASTM 115 PSI
SEPTEMBER 8, 2010 - INFILTRATION /I/ COATING
JULY 30, 2009 - REVISE ITEMS 10, 11, 13, 14, 14B
JANUARY 28, 2010 - REVISE SEWER SERVICE LATERALS (ITEM 21A, ITEM 1, 2, 3)
JANUARY 22, 2010 - REVISE SEWER LINE LOCATION (ITEM 23A, ITEM 1, 2, 3, 4, 5, 6, 7, 8)
JUNE 11, 2010 -UPDATE NOTE 11A -GATOR WRAP

GENERAL: THE OWNER, DEVELOPER, ENGINEERING FIRM SHALL SUBMIT TO THE SAN ANTONIO RIVER AUTHORITY (SARA) ENGINEER, FOR APPROVAL, TWO (2) COPIES OF ALL PLATS, PLANS AND PROFILES, PLUMBING LAYOUT, WHICH HAVE BEEN DESIGNED AND THE DRAWINGS SEALED BY A REGISTERED PROFESSIONAL ENGINEER. WHEN APPROVED, ONE (1) COPY WILL BE RETURNED TO THE OWNER DEVELOPER, ENGINEERING FIRM, SO MARKED. THE OWNER WILL BE REQUIRED TO MAKE ALL CHANGES INDICATED BY THE SARA ENGINEER, AND RETURN WITH ALL CHANGES, CORRECTIONS, BACK TO SARA FOR APPROVAL.

1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE APPROVED BY THE SARA AND COMPLY WITH:

A. CURRENT SARA TECHNICAL SPECIFICATIONS FOR UTILITIES CONSTRUCTION.

B. TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ), FORMERLY TEXAS NATURAL RESOURCE CONSERVATION COMMISSION (TNRCC), DESIGN CRITERIA FOR SEWAGE SYSTEMS 31 TAC 317.1, 31 TAC 317.2 AND 31 TAC 317.3., 30 TAC & 213, 30 TAC&217.

2. THE CONTRACTOR IS TO NOTIFY AND MAKE ARRANGEMENTS WITH THE SARA INSPECTIONS DIVISION AT (210) 302-4216 OR (210) 219-0130 -- 48 HOURS PRIOR TO ANY EXCAVATION. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD BEFORE ANY EXCAVATION, OR START OF PROJECT.

3. WORK SHALL NOT BE PERFORMED ON SATURDAYS, SUNDAYS OR HOLIDAYS BEFORE 7:30 A.M., OR AFTER 4:30 P.M., UNLESS PRIOR APPROVAL IS GRANTED BY THE SARA ENGINEER. A LETTER WILL NEED TO BE FAXED TO (210) 661-9324 FOR ENGINEER APPROVAL (48) HOURS IN ADVANCE.

A. THE LOCATIONS AND DEPTHS OF EXISTING UTILITIES TO INCLUDE SURFACE LATERALS, SHOWN IN THESE PLANS ARE APPROXIMATION. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO LOCATE (POT. HOLE, VERITY LOCATION, ELEVATIONS OF ALL) UTILITY SERVICE LINES 48 HOURS PRIOR TO EXCAVATION AND TO PROTECT THE SAME DURING CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGES OF EXISTING UTILITIES AND REPAIRS WILL BE AT CONTRACTORS EXPENSE.

SAN ANTONIO WATER SYSTEM (WATER)

704-7817

BEXAR METROPOLITAN WATER SYSTEM

354-6536

DRAINAGE

207-5048

CITY PUBLIC SERVICE

973-3500

TIME WARNER

352-4872

VALERO ENERGY CO.

349-7555

SARA (INSPECTIONS)

210-302-4216 or 210- 219-0130

EXISTING MANHOLES /SEWER

4. CONTRACTOR WILL MAINTAIN SERVICE TO ALL EXISTING SANITARY SEWERS AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR WILL MARK, CLEAN ALL DEBRIS, GRAVEL, DIRT, ETC. OUT OF MANHOLES AND ANY STOPPAGES CAUSED BY DEBRIS DURING CONSTRUCTION. CONTRACTOR WILL UNPLUG STOPPAGE AT CONTRACTOR'S EXPENSE. ANY DAMAGE TO EXISTING MANHOLES OR SEWER MAIN WILL BE CORRECTED AT CONTRACTOR'S EXPENSE. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PREVENT DAMAGE TO EXISTING OR NEW RINGS, COVERS, OR CONES FROM EQUIPMENT AND MATERIALS USED OR TAKEN THROUGH THE WORK AREA. IF AN EXISTING OR NEW MANHOLE COVER, RING, OR CONE IS DAMAGED BY THE CONTRACTOR IT SHALL BE REPLACED AS DIRECTED BY THE SARA INSPECTOR. MANHOLES WILL NEED TO BE RESEALED WITH THE SARA APPROVED SEALING. IF SEAL COATING IS BROKEN, CONTRACTOR WILL HAVE MANHOLE RECOATED. RESEAL ALL LEAKS AT CONTRACTOR EXPENSE.

A. CONTRACTOR TO ENSURE ALL PLUGS USED TO PLUG SEWER LINES, WHILE TESTING THE PROJECT (SUCH AS AIR PLUGS, SCREW TYPE PLUGS, ETC.) ARE LABELED, MARKED OR TAGGED. PROJECT INSPECTOR WILL RECORD HOW MANY PLUGS ARE BEING USED, LOCATION AND I.D., WITHIN COLLECTION SYSTEM. CONTRACTOR WILL REPORT TO PROJECT INSPECTOR OF ANY LOST OR UNRESTRAINED PLUGS INTO SEWER COLLECTION SYSTEM.

B. CONTRACTOR WILL BE HELD LIABLE FOR ANY DAMAGES TO SEWER COLLECTION SYSTEM STOPPAGES, OVER-FLOWS, BACKUP INTO HOMES CAUSED BY LOST RUN AWAY SEWER PLUGS THAT WERE USED ON THAT PROJECT OR OUTFALL LINE WASTEWATER TREATMENT PLANTS.

C. CONTRACTOR WILL ALSO BE RESPONSIBLE FOR ANY DAMAGE TO WASTEWATER TREATMENT APPARATUS, SUCH AS SCREW PUMPS, ETC, CAUSED BY LOST OR RUN AWAY SEWER PLUGS. CONTRACTOR WILL BE HELD LIABLE FOR DAMAGES, AS WELL AS COST OF REPAIRS.

5. ALL WORK IN THE TEXAS HIGHWAY DEPARTMENT AND BEXAR COUNTY RIGHT OF WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE CONSTRUCTION SPECIFICATIONS AND PERMIT.

6. ALL WORK ON PUBLIC STREETS SHALL BE COORDINATED WITH AND APPROVED BY THE BEXAR COUNTY PUBLIC WORKS DEPARTMENT TRAFFIC DIVISION AND STREET ENGINEER

7. DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.161, CITY PUBLIC SERVICE MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND VALVES THAT ARE IN THE PROJECTED AREAS.

8. NO TESTING WILL BE PERFORMED PRIOR TO 30 DAYS FROM THE COMPLETE INSTALLATION OF THE SANITARY SEWER LINES.

THE FOLLOWING SEQUENCE WILL BE STRICTLY ADHERED TO:

A. PULL MANDREL- AFTER 30 DAYS OF INSTALLATION

B. PERFORM AIR TEST

C. PULL WIPER (AFTER STREET HAS BEEN ASPHALTED IN NEW SUBDIVISIONS)

D. VACUUM TEST ALL MANHOLES WITHIN THE PROJECT

E. CCTV- ALL NEW LINE - PAN /TILL ALL SERVICE LATERALS TO 6"x6" CLEAN OUT ,FLOOD ALL LINES BEFORE CCTV, SUMMIT DVD

9. CONTRACTOR SHALL SUBMIT FILED COPY PLANS AND PROFILES SHOWING AS-BUILT WORK AT END OF PROJECT, CCTV DVD AND COMPACTION DENSITY REPORTS FOR MAIN SEWER LINE AND ALL SERVICE LATERALS TRENCHES. WARRANTY LETTERS ON MATERIALS, WORKMANSHIP FOR 24 MONTHS AFTER FINAL ACCEPTANCE.

MANHOLES

10. ALL MANHOLES SHALL BE CONSTRUCTED SO THAT THE TOP OF THE RING IS AT LEAST FOUR (4) INCHES ABOVE THE FINISHED GRADE OF THE SURROUNDING GROUND EXCEPT WHEN LOCATED IN PAVED AREAS. IN PAVED AREAS THE MANHOLE RING SHALL BE FLUSH WITH THE PAVEMENT. ALL NEW INSTALLED MANHOLES WILL BE WITH A 30" INCH OPENING, MINIMUM, WITH THE SARA LOGO ON THE COVER. EVERY THIRD MANHOLE COVER WILL HAVE A 1" HOLE FOR A VENT.

11. ALL MANHOLES SHALL BE WITH A 30" OPENING, HAVE WATERTIGHT RING AND COVERS, WITH THE SARA LOGO, /I/ BARRIER, IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR UTILITIES CONSTRUCTION. ON PRIVATE PROPERTY, MANHOLE RING AND COVER SHALL BE TYPICAL MANHOLE COVER WATER TIGHT.

A. BEFORE BACK FILLING/COMPACTION/CONCRETE ENCASEMENT
ALL MANHOLE JOINT SECTION RISERS, CONE SECTIONS AND GRADE RING SHALL BE WRAPPED WITH GATOR WRAP SEALING SYSTEMS, BUTYL ADHESIVE SEALANT WITH A MINIMUM THICKNESS OF 30 MILS, INFI-SHIELD WRAPPED WITH RISER-WRAP SEALING SYSTEM, GATOR WRAP
MATERIAL: RUBBER MEETS ASTM C923/MASTIC MEETS ASTM C 990 OR APPROVE BY THE SARA ENGINEER SUBSTITUTION ON OUTSIDE FOR /I/, GROUND WATER TABLE.

12. IF CONCRETE THROAT RINGS ARE TO BE INSTALLED THEY MUST BE USED IN CONJUNCTION WITH A UV STABILIZED POLYETHYLENE LINER AND /I/ BARRIER, /I/ BARRIER MUST MEET THE FOLLOWING ASTM STANDARDS: ASTM D-790/1505 DENSITY OF POLYETHYLENE MATERIALS, ASTM D-1238 MELT FLOW INDEX, ASTM 638 TENSILE STRENGTH@ YIELD (50 MM/MM), ASTM 790 FLEXURAL MODULUS, ASTM 648 HEAT DEFLECTION TEMPERATURE @IGEPAL, ASTM 1693 ESCR,100% IGEPAL /10% IGEPAL. A MINIMUM OF TWO AND A MAXIMUM OF FOUR THROAT RINGS WILL BE USED AT EACH MANHOLE FOR ADJUSTMENT.

13. INFILTRATION DISHES WILL BE REQUIRED IN MANHOLES WHERE APPLICABLE (I.E. SUCH AS LOW DRAINAGE AREAS) AND EVERY THIRD MANHOLE SHALL BE VENTED. 30" MANHOLE COVER WITH 1" INCH HOLE CENTER OF COVER WHERE APPLICABLE/OR WATER TIGHT /BOLT DOWN.

NOTE: MANHOLE COVER INSERTS SHALL BE FRW INDUSTRIES, INC., "INFLOW PROTECTOR-COVER" "PRECO INDUSTRIES. LTD.", "SEWER GUARD", OR APPROVED EQUAL, AND SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE NECESSARY FIELD MEASUREMENTS FOR THE MANUFACTURER PRIOR TO PRODUCTION.

A. ALL MANHOLES MUST HAVE 350-400 FEET SPACING BETWEEN MANHOLES TO PROVIDE ACCESS TO SEWER LINES FOR CLEANING, ON THE SARA PUBLIC SEWER EASEMENT. A 16 FOOT GATE WITH LOCK WILL BE PROVIDE BY CONTRACTOR FOR ACCESS TO CLEANING AND MAINTAIN SEWER LINES.

B. DROP MANHOLES SHALL BE REQUIRED WHEN THE INFLOW ELEVATION IS MORE THAN TWENTY-FOUR (24) INCHES ABOVE THE OUTFLOW ELEVATION. DROP SHALL BE LOCATED OUTSIDE THE MANHOLE WITH ITS FLOWLINE ELEVATION LOCATED BETWEEN THE CENTER LINE AND TOP OF SEWER LINE.

14. ALL MANHOLES WILL BE CONCRETE ENCASEMENT 1 FOOT AROUND RING, 28-INCH DEEP AFTER GATOR WRAP SEALING SYSTEM HAS BEEN APPLIED.

15. NEW MANHOLE PROTECTIVE COATING, LINER IS FOR THE PURPOSE OF /I/ INFILTRATION BECAUSE OF HIGH WATER TABLE. APPLICATION PROCEDURES ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION AND PER THE FOLLOWING SPECIFICATIONS:

A. MANHOLE PROTECTIVE COATING: CONTRACTOR WILL BE RESPONSIBLE FOR MANHOLES ON PROJECT SAFETY ASSESSMENT; CONFINED SPACE ENTRY SET BY OCCUPATIONAL SAFETY AND HEALTH STANDARDS, 29 CFR 1910.146 APP. E.

B. THE CONTRACTOR, SHALL NOTIFY THE SARA, UTILITIES INSPECTIONS DEPARTMENT WITH A MINIMUM OF 2 DAYS ADVANCE NOTICE OF THE START OF ANY FIELD SURFACE PREPARATION WORK OF COATING APPLICATION WORK OF MANHOLES.

C. ALL NEW MANHOLES IN NEW DEVELOPMENTS SHALL BE 30" OPENING, WATERTIGHT AND THE INTERIOR WALL COATED WITH A SARA APPROVED SEWER STRUCTURE FOR ALL MANHOLES. APPLY A COMBINATION OF BOTH PRODUCTS WITH THE CEMENTATION COATING FIRST, FOLLOWED BY THE EPOXY COATING LAFARGE SEWER COAT 2000 HR REGULAR, WITH THE REQUIRED ONE-INCH THICK APPLICATION. THIS IS THE ONLY PRODUCT YET APPROVED WHICH SATISFIES THE REQUIREMENT OF APPLYING THE COMBINATION OF BOTH THE CEMENTATION COATING AND EPOXY COATING

APPROVED MATERIALS ARE AS FOLLOWS:

CEMENTITIOUS COATING WITH REQUIRED ONE-INCH THICK APPLICATION

• PERMACAST OR - 5000

• STRONG-SEAL MS-2C

• STANDARD CEMENT MATERIAL INC PELINER

• QUADEX ALUMINALINER

EPOXY COATING: WITH SPECIFIED THICKNESS APPLICATION.

• RAVEN 405 SERIES HIGH BUILD EPOXY LINER REQUIRED THICKNESS 125 MILS

• SPRAY WALL POLYURETHANE SYSTEM REQUIRED THICKNESS 150 MILS

D. WARRANTY LETTER ON MANHOLE PROTECTIVE COATING FOR 10 YEARS AFTER FINAL ACCEPTANCE OF PROTECTIVE COATINGS CONTRACTOR IS NOT RELIEVED OF ITS RESPONSIBILITIES UNDER THE CONTRACT DOCUMENTS.

i. ANY CONNECTIONS TO EXISTING MANHOLES WILL REQUIRE A 36-INCH CRADLE TO SUPPORT INCOMING PIPE. A RUBBER GASKET WILL ALSO BE REQUIRED (CENTERED AT MANHOLE WALL) WITH GROUTING AT INTERIOR AND EXTERIOR PENETRATIONS.

PENETRATION INTO MANHOLE WILL BE CORE DRILLED. ANY DAMAGE EXITING MANHOLE WILL BE REPLACED AT CONTRACTOR'S EXPENSE. IF COATING SEAL IS BROKEN, THE MANHOLE WILL BE RECOATED WITH THE SAME MATERIALS. IF EXISTING SEWER MANHOLE SEAL COATING IS BROKEN, ALL OF MANHOLE WILL BE RESEALED WITH SAME MATERIALS.

ii. ANY AND ALL EXISTING MANHOLES WITHIN CONSTRUCTION PROJECT THAT TIE IN, ARE DONE BY CONTRACTOR TO STUB-OUT ADJUSTMENT, RECONSTRUCTION, OR LEAKING. MANHOLE WILL BE COAT SEALED AT CONTRACTOR'S EXPENSE.

iii. MANHOLES WITH STUB-OUTS (8") INCH OR LARGER MUST BE LOCATED AT THE END OF ALL SEWER LINES THAT MAY BE EXTENDED IN THE FUTURE. MANHOLES PLACED AT THE END OF THE WASTEWATER COLLECTION SYSTEM PIPES THAT MAY BE EXTENDED IN THE FUTURE MUST INCLUDE PIPE STUB-OUTS WITH PLUGS.

PIPING

***** NEW NOTE *****

16. THE KIND AND DESCRIPTION OF THE PIPE CONDUIT IS SHOWN ON THE PLANS (IF PVC, SDR AND ASTM/ANSI DESIGNATION CLASS). AS SDR 26 PVC, ASTM D-3034 WITH A MINIMUM STIFFNESS OF 115 PSI TEXAS ADMINISTRATIVE CODE (TAC) RULES TO INCLUDE 30 TAC & 213, OR ANY REVISIONS THERE TO APPLICABLE TECQ, 30 TAC 7 217, FOR ALL NEW DEVELOPMENT.

17. THE USE OF ASBESTOS CEMENT PIPE WILL BE PROHIBITED UNDER THIS CONTRACT. ALL DUCTILE IRON PIPE USED IN THIS SYSTEM SHALL BE CORROSION PROTECTED ON BOTH THE INTERIOR AND EXTERIOR SURFACES. ALL CORROSION PROTECTION SHALL BE APPLIED AND INSTALLED IN SUCH A MANNER AS TO MAINTAIN A CONTINUOUSLY PROTECTED SURFACE AFTER FINAL PIPE INSTALLATION.

18. ALL PVC SEWER PIPE WITH OVER 14 FEET OF COVER SHALL BE EXTRA STRENGTH; MINIMUM PIPE STIFFNESS OF 150 PSI.

19. ALL SEWER PIPES SHALL HAVE COMPRESSION OR MECHANICAL JOINTS.

20. SEWER PIPE CONNECTIONS TO PRECAST MANHOLES SHALL BE APPROVED BY THE SARA. THIS CONNECTION SHALL USE A FLEXIBLE "BOOT" TYPE CONNECTOR SUCH AS THE PSX POSITIVE SEAL SYSTEM OR ENGINEER APPROVED EQUAL AND COMPLY WITH ASTM C-923. SEWER PIPE CONNECTIONS TO MONOLITHIC MANHOLES WILL BE AS SHOWN ON THE STANDARD DETAIL SHEET. ANY CHANGES IN THESE METHODS MUST BE APPROVED BY SARA ENGINEER.

21. ALL PIPE TRENCHING, BEDDING AND BACKFILL SHALL BE DONE IN ACCORDANCE WITH APPROPRIATE ASTM/ANSI SPECIFICATIONS [REFERENCE 31 TAC 317.2(A)(5)(A); ASTM C-12 (ANSI A106.2) OR ASTM D-2321 (ANSI K65.171)]. ALL COMPACTION @ 98% DENSITY TESTS ACROSS THE BOARD, 1 RANDOM DENSITY TEST PER LIFT FOR EVERY 400 FEET.

A. SAND MIGRATION PREVENTION COLLAR WHEN CHANGING THE INITIAL BACKFILL FROM SELECT INITIAL BACKFILL TO OPTIONAL SELECT INITIAL BACKFILL. A TWO (2) FOOT LONG CLASS D CONCRETE ENCASEMENT OR FIRMLY COMPACTED, CONSOLIDATED CLAY ENCASEMENT BETWEEN THE TWO SHALL BE PROVIDED FOR THE ENTIRE HEIGHT OF THE INITIAL BACKFILL, EVERY 180 FEET ALONG PIPE AND 20 FEET FROM WALL OF MANHOLE IN EACH DIRECTION.

B. SEWER LINE LOCATION:

i. SEWER LINES SHALL BE SIZED AND EXTENDED THROUGH THE LIMITS OF A DEVELOPMENT TO SERVE ADJACENT PROPERTY, WITH MANHOLE AND STUB-OUT AT END OF SEWER LINE.

a. IN PHASED CONSTRUCTION OF THOROUGHFARES, THE SEWER LINE SHALL BE EXTENDED THE ENTIRE LENGTH OF THOROUGHFARE BEING CONSTRUCTED.

ii. NO PUBLIC SEWER LINE SHALL BE LOCATED NEARER THAN FIVE (5) FEET FROM ANY TREE.

iii. SIZES AND GRADES FOR SANITARY SEWER SHALL BE AS REQUIRED BY THE SARA ENGINEER AND CONSIDERATION SHALL BE GIVEN AS TO POSSIBLE EXTENSIONS FOR FUTURE DEVELOPMENT. NO SANITARY SEWERS, OTHER THAN LATERALS AND FORCE MAINS, SHALL BE LESS THAN EIGHT (8) INCH IN DIAMETER.

22. WHEN SEWER LATERALS ARE TO BE CONNECTED TO EXISTING SEWER MAINS AND NO STUB-OUT HAS BEEN EARLIER PROVIDED, THE CONNECTION MUST BE MADE WITH AN APPROVED SERVICE SADDLE AS PER 31 TAC 313.5(C) (7). NEW INVERT TO BE BUILT, SMOOTH CHANNEL FOR NEW PIPE/SLOPE AT 2 % FLOW.

23. ALL RESIDENTIAL SERVICE LATERALS SHALL BE SDR 26 PVC WITH RATING OF 115 PSI, BE EXTENDED TO THE PROPERTY LINE AT (6 X 6) CAPED AND SEALED. ATTACH SEWER BURIAL TAPE TO THE END OF ALL SEWER LATERALS AND BRING UP TO THE GROUND LEVEL FOR MARKER (GREEN). (SEE HOUSE LATERALS DETAILS).

A. SEWER SERVICE LATERALS. THE SIZES AND LOCATIONS OF LATERALS SHALL BE DESIGNATED AS FOLLOWS UNLESS OTHERWISE DIRECTED BY THE SARA ENGINEER:

i. IN GENERAL FOR SINGLE FAMILY DWELLING, THE LATERAL SIZE SHALL BE A FOUR (4") INCH MINIMUM. HOUSE LATERALS SHALL BE INSTALLED CENTER OF THE LOT AND SHALL HAVE A TEN (10) FOOT SEPARATION FROM THE WATER SERVICE. THE SERVICE SHALL THEN BE EXTENDED AT A FORTY-FIVE (45) DEGREE ANGLE TO FOUR (4) FEET ABOVE THE FINISHED GRADE AND CAPPED. USE SEWER BURIAL TAPE TO MARK ALL SEWER SERVICE LATERALS.

ii. MULTIPLE UNITS, APARTMENTS, LOCAL RETAIL AND COMMERCIAL SIX (6") INCH MINIMUM, MANUFACTURING AND INDUSTRIAL - EIGHT (8") INCH MINIMUM, OR LARGER AS REQUIRED.

TRAPS AND INTERCEPTORS (FOG - TECQ)

UNIFORM PLUMBING CODE, CITY OF SAN ANTONIO BUILDING INSPECTIONS DEPARTMENT. ALL COMMERCIAL BUILDINGS WILL HAVE TRAPS (FOG -TECQ).

OIL SEPARATORS

WHICH INCLUDE OIL SEPARATOR- GASOLINE SERVICE STATIONS, CAR WASHES, GARAGES, DRY CLEANERS, CHEMICAL PLANTS, GAS PLANTS, HIDE PROCESSORS, TESTING LABORATORIES, OR ANY PLACE WHERE OIL OR SOLVENTS MAY BE INTRODUCED INTO THE SANITARY SEWER SYSTEM.THE SIZING CRITERIA FOR OIL SEPARATORS SHALL BE BASED ON THE G.P.M. RATE OF ALL FIXTURES, APPLIANCE OR APPURTENANCE, DRAINING INTO SEWER SYSTEM.

SAND INTERCEPTORS

SAND INTERCEPTORS SHALL BE INSTALLED IN THE SEWER SYSTEM OF THE FOLLOWING ESTABLISHMENTS, GARAGES, CAR WASHES, SERVICE STATIONS, OR ANY PLACE OF BUSINESS WHERE HEAVY SOLIDS MAY BE INTRODUCED INTO THE SANITARY SEWER SYSTEM. THE SIZING CRITERIA FOR A SAND INTERCEPTOR SHALL BE BASED ON THE REQUIRED G.P.M. x 12 MINUTE RETENTION TIMES TO OBTAIN THE TANK SIZE IN GALLONS CAPACITY.

AUTOMATIC CAR WASHES

WITH HIGH PRESSURE SPRAYS AND /OR BRUSHES INSTALL A 50 G.P.M. INTERCEPTOR MINIMUM, FOR A 4-BAY VEHICLE WASH, THE SIZE OF THE INTERCEPTOR SHALL INCREASE 10 G.P.M. FOR EACH ADDITIONAL WASH BAY OVER 4. SINGLE BAY OR PORTABLE WASHER TYPE VEHICLE WASHES SHALL INSTALL A 20 GPM INTERCEPTOR MINIMUM.

NEUTRALIZING DEVICES

IN NO CASE SHALL CORROSIVE LIQUIDS, SPENT ACIDS, OR OTHER HARMFUL CHEMICALS WHICH MIGHT DESTROY OR INJURE A DRAIN, SEWER, SOIL, OR WASTE PIPE, OR WHICH MIGHT CREATE NOXIOUS OR TOXIC FUMES, DISCHARGE INTO THE SANITARY SEWER SYSTEM WITHOUT BEING THOROUGHLY NEUTRALIZED BY PASSING THROUGH A PROPERLY CONSTRUCTED AND ACCEPTABLE NEUTRALIZING DEVICE. SUCH DEVICE SHALL BE PROVIDED WITH A SUFFICIENT INTAKE OF NEUTRALIZING MEDIUM, CONSISTING OF LIMESTONE OR MARBLE CHIPS, SO AS TO MAKE ITS CONTENTS NON-INJURIOUS BEFORE BEING DISCHARGED INTO THE SANITARY SEWER SYSTEM.

LINT TRAPS

PUBLIC AND PRIVATE WASHATERIAS AND COMMERCIAL LAUNDRIES SHALL INSTALL A LINT TRAP EQUIPPED WITH A CONVENIENTLY LOCATED AND EASILY REMOVABLE WIRE BASKET OR OTHER SIMILAR DEVICE THAT WILL PREVENT THE STRINGS, RAGS, BUTTONS, OR OTHER PROHIBITED MATERIAL FROM ENTERING THE SANITARY SEWER SYSTEM. THE BASKET OR OTHER SIMILAR DEVICE SHALL PREVENT PASSAGE TO THE SANITARY SEWER SYSTEM OF SOLIDS GREATER THAN ½ INCH IN DIAMETER. THE LINT TRAP SIZE SHALL BE BASED ON THE TOTAL G.P.M. OF ALL FIXTURES, APPLIANCES AND APPURTENANCES DRAINING TO IT IN LIEU OF A LINT TRAP.A LINT INTERCEPTOR MAY BE INSTALLED.THE INTERCEPTOR SHALL BE SIZED AND DESIGNED BY A TEXAS REGISTERED ENGINEER WITH HIS SEAL AND SIGNATURE ON THE DRAWINGS.

SILVER RECOVERY UNITS

SILVER RECOVERY UNITS SHALL BE INSTALLED IN WASTE LINE(S) LEADING FROM X- RAY PROCESSING, PHOTOGRAPHIC PROCESSING, AND /OR ANY PROCEDURES IN ESTABLISHMENT SUCH AS MEDICAL LABS, DENTAL LABS, PHOTO FINISHERS, PRINTERS, GRAPHIC ARTS PRODUCTION FACILITIES, HOSPITAL, FACILITIES, VETERINARY HOSPITALS, OR OTHER ESTABLISHMENTS WHERE SILVER MAY BE INTRODUCED INTO THE SANITARY SEWER SYSTEM.

SOLIDS INTERCEPTORS

SOLIDS INTERCEPTORS SHALL BE INSTALLED WHEN PRE-TREATMENT OF WASTE STREAMS IS NECESSARY TO PREVENT SOLIDS GREATER THAN ½ IN DIAMETER, WHICH MAY CAUSE LINE STOPPAGE FROM ENTERING THE SANITARY SEWER SYSTEM.

INTERCEPTORS

a. INTERCEPTORS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN APPROVED BY THE SAN ANTONIO RIVER AUTHORITY CONSISTING OF A MINIMUM OF TWO COMPARTMENTS WITH FITTINGS DESIGNED FOR GREASE RETENTION AND PROVIDE FOR A MINIMUM OF TWELVE (12) MINUTES RETENTION.

b. THERE SHALL BE AN ADEQUATE NUMBER OF MANHOLES TO PROVIDE ACCESS FOR CLEANING ALL AREAS OF AN INTERCEPTOR, ONE MANHOLE PER TRAP COMPARTMENT. MANHOLE COVERS SHALL BE GAS TIGHT IN CONSTRUCTION HAVING A MINIMUM OPENING DIMENSION OF 20 INCH INCHES (0.5 M).

c. IN AREAS WHERE TRAFFIC MAY EXIST THE INTERCEPTOR SHALL BE DESIGNED TO HAVE ADEQUATE REINFORCEMENT AND COVER.

d. ALL INTERCEPTORS SHALL HAVE THE SIZE OF THE INTERCEPTOR (IN GALLON PER MINUTE OR GALLON CAPACITY) PERMANENTLY AFFIXED TO THE DEVICE.

e. ALL CONCRETE UTILIZED IN THE CONSTRUCTION OF INTERCEPTOR SHALL HAVE A MINIMUM STRENGTH OF 3000 PSI.

f. AN EFFLUENT SAMPLING WELL ON ALL INTERCEPTORS SHALL BE REQUIRED. THE SAMPLE WELL SHALL HAVE A RISER A MINIMUM OF 6 INCHES IN DIAMETER AND SHALL BE INSTALLED AFTER THE CONFLUENCE OF ALL WASTE STREAMS FROM THE FACILITY AND PRIOR TO DISCHARGING INTO SANITARY SEWER COLLECTION SYSTEM. THE WELL SHALL BE PERPENDICULAR TO THE EFFLUENT LATERAL TO ALLOW VISUAL OBSERVATION OF THE FLOW STREAM AND PROVIDE FOR SAMPLING OF WASTE WATER.

WATER TIGHT TESTING (24 HOURS)

9. ALL INTERCEPTORS SHALL BE WATER TESTED OUT AT JOB SITE AFTER BEING INSTALLED (PLUG BOTH ENDS AND FILL TO TOP OF INTERCEPTOR). INTERCEPTOR SHALL SHOW NO LEAKAGE FROM SECTION SEAMS, PINHOLES, OR OTHER IMPERFECTIONS. ANY LEAKAGE IS CAUSE FOR REJECTION, WHEN LEAKAGE OCCURS, ADDITIONAL WATER TESTING SHALL BE MADE, AFTER CORRECTING MEASURE TEST, REPORTS SHALL SHOW TOTAL NUMBER OF INTERCEPTORS TESTED. WHEN LEAKAGE OCCURS CORRECTIVE MEASURES TAKEN SHALL BE REPORTED BY THE SARA INSPECTORS. SARA INSPECTORS SHALL RECORD IN DAILY LOG WITH PROJECT NAME, DATE IT WAS TESTED AND COMPLETED.

B. MANHOLES WILL BE REQUIRED ON SIX (6) INCH AND LARGER LATERALS WHERE THEY CONNECT TO THE MAIN.

A. LATERALS WILL NOT BE ATTACHED TO SEWER MAINS THAT ARE DEEPER THAN TWELVE (12) FEET.

B. FITTINGS ARE NOT PERMITTED ON LATERALS BETWEEN THE WYE AND THE PROPERTY LINE.

C. DEEP CUT OR DROP CONNECTIONS SHALL NOT BE PERMITTED.

F. A MINIMUM OF ONE (1) LATERAL PER BUILDING SHALL BE REQUIRED. ALSO, A MINIMUM OF ONE (1) LATERAL PER RESIDENTIAL LOT SHALL BE REQUIRED. DUPLEXES SHALL HAVE TWO (2) LATERALS THAT SHALL BE INDEPENDENTLY ATTACHED TO THE MAIN.

G. ALL SEWER LATERAL CROSSING WATER MAINS SHALL CONFORM TO THE REQUIREMENTS OF THE TCEQ CHAPTER 317 (DESIGN CRITERIA FOR SEWERAGE SYSTEMS) LATEST REVISION, SDR 26 150 PSI, OR DUCT IRON PIPE, CONCRETE ENCASEMENT .

24. WHERE REQUIRED CONCRETE ENCASEMENT SHALL BE PLACED FOR FULL WIDTH OF THE TRENCH TO A PLAIN SIX (6) INCHES ABOVE THE TOP OF THE PIPE WITH PAY UNITS AS SHOWN ON THE STANDARD DETAIL SHEET.

25. A MINIMUM OF FOUR (4) FEET OF COVER IS TO BE MAINTAINED OVER THE SANITARY SEWER MAIN AND LATERALS AT GRADE, OTHERWISE CONCRETE ENCASEMENT IS REQUIRED.

26. WHERE POROUS MATERIAL INCLUDING SUBGRADE FILLER IS USED FOR BACKFILL IN THE BEDDING AND INTIAL BACKFILL ZONES, SEEPAGE RETAINERS ARE REQUIRED AT AN APPROXIMATE OF 180 FEET. RETAINERS SHALL CONSIST OF CLASS D CONCRETE ENCASEMENT OR FIRMLY COMPACTED, CONSOLIDATED CLAY ENCASEMENT. THE RETAINERS SHALL EXTEND FROM THE BOTTOM OF THE TRENCH TO THE TOP OF THE GRANULAR MATERIAL FOR THE ENTIRE TRENCH WIDTH. ENCASEMENT SHALL BE 24 INCHES LONG. NO EXTRA PAY ITEM.

BLASTING

27. WHEN ALLOWABLE, BLASTING SHALL BE PERFORMED IN ACCORDANCE WITH THE ABOVE CRITERIA ESTABLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION 312 TAC 313.5(C) (6).

28. BLASTING SEWER LINE EXCAVATION MUST BE DONE IN SUCH A MANNER AS TO MINIMIZE THE FRACTURING OF ROCK BEYOND THE REQUIRED EXCAVATION. THE CONTRACTOR SHALL CONSIDER THE ELEVATION OF THE EXISTING SANITARY SEWER MAIN IN RELATION TO THE BLASTING CHARGE AND RELATIVE DIRECTION OF EXISTING AND PROPOSED TRENCHES. BLASTING WITHIN SUCH AREAS SHALL BE ACCOMPLISHED ONLY BY QUALIFIED BLASTING CONTRACTORS WHO HOLD BLASTING LICENSES FROM A QUALIFIED AGENCY SUCH AS THE SAN ANTONIO FIRE DEPARTMENT IN BEXAR COUNTY. ANY DAMAGE TO EXISTING SANITARY SEWERS RESULTING FROM BLASTING SHALL BE REPAIRED AND RESTORED BY THE CONTRACTOR AT HIS OWN EXPENSE.

29. NO BLASTING SHALL BE PERFORMED WITHIN 75 FEET OF EXISTING UTILITIES.

DESIGNED BY: D.V.B.

DRAWN BY: D.V.B.

DATE: 10/20/21

JOB NO.: E0563007

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FOR BIDDING
PURPOSES ONLY
NOT FOR CONSTRUCTION

NOTTING HILL SUBDIVISION
UNIT 5
SANITARY SEWER NOTES

SHEET NO.
307



FOR BIDDING
PURPOSES ONLY
NOT FOR CONSTRUCTION

[illegible]

NOTTING HILL SUBDIVISION
UNIT 5
SANITARY SEWER NOTES

SHEET NO.

308

30. ALL SEWER LINES MUST BE TESTED IN ACCORDANCE WITH THE FOLLOWING:

- A. 317.2(A)(5)(B); DEFLECTION TEST FOR FLEXIBLE AND SEMI-RIGID PIPE CONDUCTED AFTER FINAL BACKFILL HAS BEEN IN PLACED AT LEAST 30 DAYS.
- B. 317.2(A)(4)(A) & (B) OR SARA SPECIFICATIONS INFILTRATION AND/OR EXFILTRATION AND/OR LOW-PRESSURE AIR TEST.
- C. 317.5(C)(10)(C) OR SARA SPECIFICATIONS: ALL MANHOLES AND WET WELLS MUST BE TESTED SEPARATELY AND INDEPENDENTLY OF THE COLLECTION LINES.
- D. IN THE EVENT THAT TESTING REQUIREMENTS CONFLICT, THE LATEST TCEQ DESIGN CRITERIA SHALL BE USED.

32. SANITARY SEWER CONNECTIONS MADE DIRECTLY TO EXISTING MANHOLES WHICH REQUIRE PENETRATION INTO THE MANHOLE WILL BE CORE DRILLED, ANY DAMAGE TO EXISTING MANHOLE WILL BE REPLACED AT CONTRACTOR'S EXPENSE AND WILL REQUIRE SUCCESSFUL TESTING OF THE EXISTING MANHOLE IN ACCORDANCE WITH THE SARA SPECIFICATIONS. THEY MUST HAVE A PROTECTIVE COATING WITH SEWPERCOAT, RAVEN 405, SAUERREISEN 210, SPRAY WALL, OR APPROVED EQUIVALENT BY THE ENGINEER. COATING WILL BE MINIMUM OF 200 MILS THICKNESS DEPENDING ON EXISTING CONDITIONS, TO PREVENT INFRASTRUCTURE INFILTRATION, FOLLOW MANUFACTURER'S RECOMMENDATION ON PROTECTIVE COATING.

33. AFTER CONSTRUCTION, TESTING WILL BE DONE BY PAN/TILT TV CAMERA BY THE CONTRACTOR AND OBSERVED BY THE INSPECTOR, WASTEWATER ENGINEERING PERSONNEL AND CONTRACTOR AS CAMERA IS RUN THROUGH THE LINES. PAN/TILT ALL 6" SERVICE LATERALS TO 6'x6" STUB-OUT. VIDEOS MUST INCLUDE SUBDIVISION NAME, MANHOLE NUMBER, SERVICE LATERAL STATION NUMBER, FLOW DIRECTION, LOCATION ANY ABNORMALITIES, SUCH AS BROKEN PIPE OR MISALIGNED, JOINT, GRAVEL, DIRT, MUST BE CLEANED OUT, REPLACE AT CONTRACTOR'S EXPENSE. NEW SEWER SYSTEM WILL BE FLOODED WITH H2O BEFORE BEING TV. ALL SEWER LINES MUST BE PRESSURE CLEANED TO INCLUDE SERVICE LATERALS 6 INCH TO STUB-OUT. ALL VIDEOS SHALL BE SUBMITTED IN DVD FORMAT WITH WRITTEN REPORTS.

34. A COPY OF ALL TESTING REPORTS INCLUDING BACKFILL COMPACTION TESTS SHALL BE FORWARDED TO THE SARA.
A. DENSITY TEST WILL BE REQUIRED ON ALL SANITARY SEWER TRENCHES INCLUDING SERVICE LATERALS. SERVICE LATERALS TO BE CHOSEN RANDOMLY BY FIELD INSPECTOR. DENSITIES ON SERVICE LATERAL SHALL NOT EXCEED 25% OF TOTAL NUMBER OF SERVICE

39. CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTORS TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTORS IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIALLY, CONTRACTOR AND/OR CONTRACTORS INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITHIN OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

36. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL WASTE MATERIALS UPON PROJECT COMPLETION. THE CONTRACTOR SHALL NOT PERMANENTLY PLACE ANY WASTE MATERIALS IN THE 100 YEAR FLOODPLAIN WITHOUT AN APPROVED FLOODPLAIN PERMIT.

37. WATER JETTING THE BACKFILL WITHIN A STREET WILL NOT BE PERMITTED. SANITARY SEWER TRENCHES SUBJECT TO TRAFFIC SHALL CONFORM TO SARA SPECIFICATIONS.

38. WHERE THE MINIMUM 9 FOOT SEPARATION DISTANCE BETWEEN SEWER LINES AND WATERLINES, MAINS CANNOT BE MAINTAINED, THE INSTALLATION OF SEWER LINES SHALL BE IN STRICT ACCORDANCE WITH THE TCEQ RULES (31 TAC 317.3 APPENDIX E), SDR 26 ASTM 150 PSI OR CONCRETE ENCASEMENT DUCT IRON.

39. THE TCEQ AND THE ENVIRONMENTAL PROTECTION AGENCY (EPA) REQUIRE EROSION AND SEDIMENTATION CONTROL FOR CONSTRUCTION OF SEWER COLLECTION SYSTEMS. DEVELOPER OR AUTHORIZED REPRESENTATIVE SHALL PROVIDE EROSION AND SEDIMENTATION CONTROL AS NOTED ON THE PROJECTS PLAN AND PROFILE SHEETS.

40. ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS SHALL BE REMOVED BY THE CONTRACTOR AT FINAL ACCEPTANCE OF THE PROJECT BY THE SARA.

41. NO EXTRA PAYMENT SHALL BE ALLOWED FOR WORK CALLED FOR ON THE PLANS BUT NOT INCLUDED ON THE BID SCHEDULE. THIS INCIDENTAL WORK WILL BE REQUIRED AND SHALL BE INCLUDED UNDER PAY ITEM 10 WHICH IT RELATES TO.

42. UNLESS THE DEVELOPMENT IS PRIVATELY OWNED, THE DEVELOPER DEDICATES THE SANITARY SEWER MAIN AND MANHOLES TO THE SARA, UPON COMPLETION BY THE DEVELOPER AND FINAL ACCEPTANCE BY THE SARA. SARA WILL OWN AND MAINTAIN SAID SANITARY SEWER MAINS AND MANHOLES WHICH ARE LOCATED WITHIN THIS PARTICULAR SUBDIVISION.

43. WORK COMPLETED BY CONTRACTOR WHICH HAS NOT RECEIVED A WORK ORDER OR THE CONSENT OF THE SARA CONSTRUCTION INSPECTION DIVISION WILL BE SUBJECT TO REMOVAL AND REPLACEMENT BY AND AT THE EXPENSE OF THE CONTRACTOR.

44. SARA IS NOT TO BE RESPONSIBLE FOR ANY ABNORMALITIES ON STUB OUT, INVERT, GRADE OR SLOPE FOR ANY EXISTING MANHOLE TIE IN OR SERVICE LATERAL TIE IN.

45. ENGINEER, DEVELOPER AND BUILDER, WILL HAVE PLUMBER AND CONTRACTOR WITH BID PRICE ON NEW INSTALLATION OF ALL 4" INCH SEWER SERVICE LATERALS TO COMPLY WITH TRENCH SAFETY (OSHA) SHORING PROTECTION ON ALL NEW INSTALLATION OF 4" INCH SEWER SERVICE LATERALS. SARA WILL NOT BE HELD RESPONSIBLE FOR ANY INJURIES OR DEATH CAUSED BY TRENCH FAILURE, OR A WRONG OR DAMAGE DONE TO A PERSON OR TO HIS PROPERTY. OSHA GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

46. ALL 4 INCH SEWER SERVICE LATERALS WILL BE HYDRAULIC TESTED AND OR LOW AIR PRESSURE TESTED. ALL 4 INCH SEWER SERVICE LATERALS WILL BE TELEVIEWED (TV) FROM 4 INCH CLEAN OUT AT OUTSIDE EACH RESIDENCE TO 6" X 6" CLEAN OUT. CONTRACTOR AND PLUMBER WILL SUBMIT REPORTS AND OR VIDEOS TO SARA, WITH THE FOLLOWING INFORMATION: SUBDIVISION NAME, LOT NUMBER, BLOCK NUMBER, STATION NUMBER, STREET NAME AND ADDRESS OF EACH SEWER SERVICE LATERAL. PLUMBER WILL BE PROVIDED PLAN/PROFILE BY ENGINEER/BUILDER.

PLUMBER WILL WORK CLOSELY WITH THE SARA PROJECT INSPECTOR ON DAILY TESTING AND TELEVISION BY MAKING ARRANGEMENTS 48 HOURS IN ADVANCE. SEWER SERVICE LATERALS THAT HAVE NOT BEEN INSPECTED OR APPROVED AND/OR COVERED UP, WILL HAVE TO BE RE-DUG AT CONTRACTOR/PLUMBER EXPENSE AND RE-INSPECTED.

A. A PROPERTY LINE CLEANOUT (6" X 6") SHALL BE INSTALLED FOR RESIDENTIAL SERVICES. CLEANOUTS IN THE SIDEWALK OR DRIVEWAY SHALL HAVE A CAST IRON BOOT. CLEANOUT NOT LOCATED IN A SIDEWALK OR DRIVEWAY SHALL BE LOCATED ON A REINFORCED CONCRETE PAD A MINIMUM OF TWELVE (12") INCHES BY TWELVE (12"). INCHES BY SIX (6") INCHES THICK. ALL PROPERTY LINE CLEANOUTS SHALL INCLUDE A LID WITH SEWER IN GREEN COLOR.

47. N1 FENCING: ANY AND ALL FENCING, INCLUDING ELECTRIC FENCE, WHETHER OR NOT IDENTIFIED ON THE PLANS, MUST BE MAINTAINED AT ALL TIMES. ANY AND ALL DAMAGES DIRECTLY ATTRIBUTED TO THE CONTRACTOR MUST BE REPLACED TO EQUAL OR BETTER CONDITIONS AT THE CONTRACTORS EXPENSE AND AS APPROVED BY THE PROJECT MANAGER. GAPS IN THE FENCING MUST BE PROVIDED AT ALL LOCATIONS WHERE THE SEWER LINE EASEMENT CROSSES FENCING. FENCING REQUIRED TO MAINTAIN LIVESTOCK MUST BE MAINTAINED AT ALL TIMES.

48. N2 DAMAGE TO ADJACENT LAND: THE CONTRACTOR MUST AVOID DAMAGE TO ADJACENT LAND OUTSIDE THE IDENTIFIED CONSTRUCTION LIMITS. ANY AND ALL CLAIMS DIRECTLY ATTRIBUTED TO THE CONTRACTOR RESULTING FROM HIS STRAYING BEYOND THE CONSTRUCTION LIMITS MUST BE SETTLED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER WITH THE APPROPRIATE LANDOWNER.

49. N3 PROPERTY OWNER ACCESS: THE CONTRACTOR MUST MAINTAIN ACCESS FOR PRIVATE INDIVIDUALS AT ALL TIMES. IF NORMAL ACCESS IS DAMAGED DURING CONSTRUCTION THE CONTRACTOR MUST REPLACE THE ACCESS TO EQUAL OR BETTER CONDITIONS AT THE CONTRACTORS EXPENSE, AS APPROVED BY THE ENGINEER.

50. N4 CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES WHETHER OR NOT SHOWN ON THE PLANS. SHOULD THE CONTRACTOR DAMAGE ANY UTILITIES THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS TO REPAIR THE UTILITIES TO THEIR ORIGINAL CONDITION. CONTRACTOR IS SOLELY RESPONSIBLE FOR LOST REVENUE, LOSSES ETC. CLAIMED BY UTILITY COMPANIES DUE TO CONTRACTORS WORK. CONTRACTOR SHALL NOTIFY SARA AND IMPACTED UTILITY COMPANIES 48 HRS. PRIOR TO BEGINNING WORK. CONTRACTOR SHALL VERIFY THE LOCATION OF UTILITIES AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

51. N5 CLEARING PERMANENT EASEMENTS: THE LIMITS OF BOTH THE EXISTING AND PARALLEL SEWER LINES PERMANENT EASEMENTS, AS DELINEATED IN THESE PLANS, MUST BE CLEARED IN ACCORDANCE WITH THE SPECIFICATION. THE CONTRACTOR MAY BE DIRECTED BY THE ENGINEER TO PROTECT AND AVOID CERTAIN TREES WITHIN THE LIMITS OF THE PERMANENT AND TEMPORARY CONSTRUCTION EASEMENTS. ALL BRUSH MUST BE REMOVED FROM SITE, NO BRUSH PILES TO REMAIN AFTER CONSTRUCTION. BURNING OF BRUSH OR TRASH WILL NOT BE ACCEPTABLE.

52. N7 CONTRACTOR SHALL PROVIDE APPROPRIATE SAFE ACCESS AND BARRICADE WORK AT ALL TIMES TO PROTECT THE PUBLIC. THIS INCLUDES SUBSTANTIAL BARRICADES AROUND ALL TRENCHES, BORE PITS, OPEN EXCAVATIONS, EQUIPMENT ETC. THE SITE MUST BE LEFT IN A SECURE SAFE CONDITION AT NIGHT. IT IS THE CONTRACTORS RESPONSIBILITY TO TAKE NECESSARY PRECAUTIONS TO PROTECT THE PUBLIC THROUGHOUT THE DURATION OF THE PROJECT.

53. N14 SHOULD CONTRACTOR SELECT A TRENCH EXCAVATION PROCEDURE THAT EXTENDS THE LIMITS OF SEEDING OR PAVING AND FINAL SITE PREPARATION (I.E. SLOPE BACK PROTECTION SYSTEM) HE WILL BE RESPONSIBLE FOR MEETING PLAN AND SPECIFICATION REQUIREMENTS TO THE NEW LIMITS AT NO ADDITIONAL COST TO SARA.

54. N16 WARNING: NOTE THAT CERTAIN PORTIONS OF THE PROJECT MAY PARALLEL AND /OR CROSS EXISTING UTILITIES. THE CONTRACTORS WILL BE REQUIRED TO PROTECT EXISTING UTILITIES. ADDITIONAL SUPPORTIVE SHORING MAY BE REQUIRED. IT IS SPECIFICALLY THE CONTRACTORS RESPONSIBILITY TO PROTECT HIS WORKERS, EXISTING UTILITIES, AND FINISHED WORK THROUGHOUT THE JOB.

55. N 17 OVERHEAD ELECTRIC, CITY PUBLIC SERVICE (CPS) AN APPROPRIATELY SAFE OVERHEAD CLEARANCE MUST BE MAINTAINED BETWEEN ALL EQUIPMENT AND PERSONNEL. THE CONTRACTOR SHALL NOTIFY CITY PUBLIC SERVICE AT 353-2700 AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION IN THE VICINITY OF THE CPS OVERHEAD ELECTRIC LINE CONTRACTOR SHALL MAINTAIN CPS RECOMMENDED CLEARANCE REQUIREMENTS.









56. N 23 BYPASS PUMPING: THE CONTRACTOR IS RESPONSIBLE FOR ALL BYPASS PUMPING REQUIRED TO COMPLETE THE WORK. BYPASS PUMPS SHALL BE ADEQUATE TO HANDLE PEAK FLOW EVENTS DURING STORM EVENTS. CONTRACTOR SHALL HAVE STANDBY PUMPS AVAILABLE TO BYPASS FLOW IN CASE PRIMARY PUMP FAILS, CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR ALL COSTS FOR CLEANUP OF AN UNAUTHORIZED DISCHARGE AND ANY ASSOCIATED FINES.

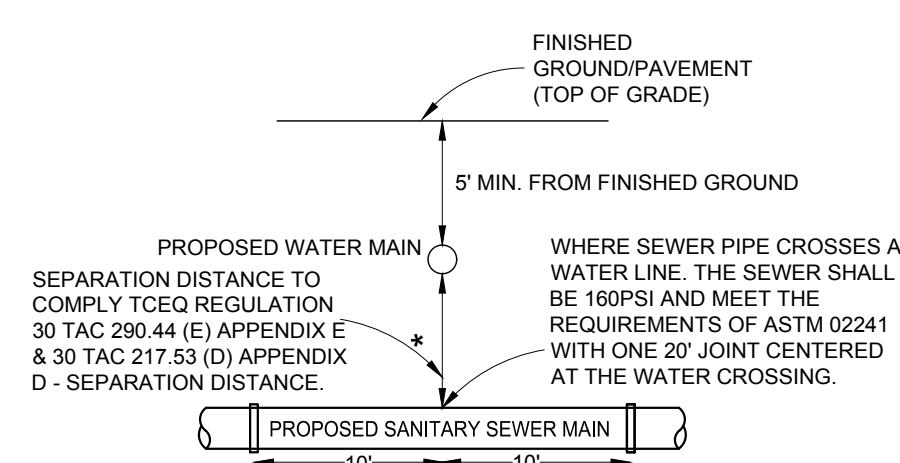
57. N26 CONTRACTOR SHALL BACKFILL ALL OPEN TRENCHES AT THE END OF THE DAY. CONTRACTOR SHALL NOT INSTALL MORE PIPE THAN CAN BE COVERED. NO OPEN TRENCHES WILL BE PERMITTED OVERNIGHT ALL END OF OPEN PIPE WILL BE PLUGGED OVER NIGHT.

58. N33 THE PROJECT AREA MAY BE SUBJECT TO ARCHEOLOGICAL MONITORING. SHOULD THE CONTRACTOR ENCOUNTER ANY ARCHEOLOGICAL DEPOSITS DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL STOP ALL WORK IN THE AREA OF THE DEPOSITS AND IMMEDIATELY CALL THE PROJECT MANAGER.

59. N37 CONTRACTOR TO NOTE THAT PORTIONS OF THE CONSTRUCTION ARE WITHIN THE LIMITS OF THE 100 YEAR FLOODPLAIN. THE CONTRACTOR IS REQUIRED TO KEEP THE CHANNEL CLEAR OF POTENTIAL OBSTRUCTIONS TO FLOOD FLOWS. POTENTIAL OBSTRUCTIONS INCLUDE HEAVY CONSTRUCTION EQUIPMENT, TEMPORARY ROADS ACROSS CHANNEL, EXCAVATED MATERIAL, STOCKPILED DEBRIS, ETC. UNDER THREATENING WEATHER CONDITIONS WHERE FLOODING IS LIKELY, OBSTRUCTIONS SHALL BE IMMEDIATELY REMOVED BY THE CONTRACTOR AT NO ADDITIONAL COST TO SARA. THE CONTRACTOR ASSUMES ALL RISK FOR UNFINISHED WORK.

LEGEND

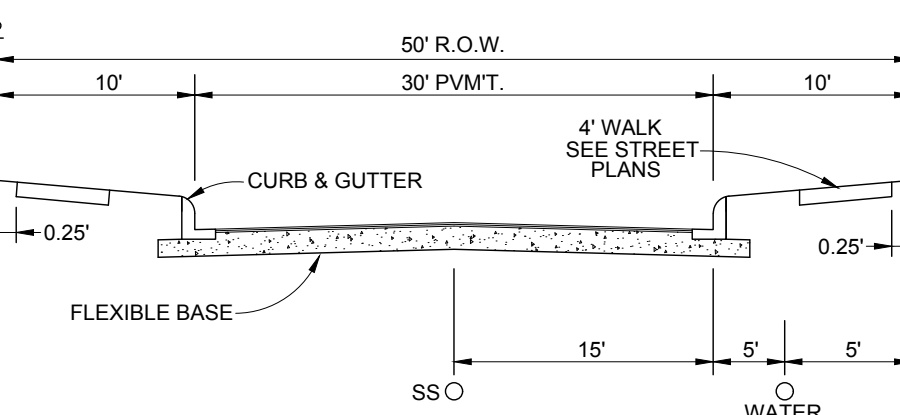
EXISTING SANITARY SEWER MAIN	
PROPOSED SANITARY SEWER MAIN	
PROPOSED SEWER LATERAL	
DIRECTION OF FLOW	
EXISTING WATER MAIN	 — E8"PVC
PROPOSED WATER MAIN	 — 8"PVC
PROPOSED LIGHT POLE (100 WATT LED)	 ● L.P.
PROPOSED WATER SERVICE / METER	



30 TAC 290.44 (e) AND 30 TAC 217.33 (b) (FORMERLY 30 TAC 317.13 APPENDIX E)

**TYPICAL SANITARY SEWER/
WATER CROSSING DETAIL**

NOT TO SCALE



TYPICAL LOCAL "A" STREET SECTION

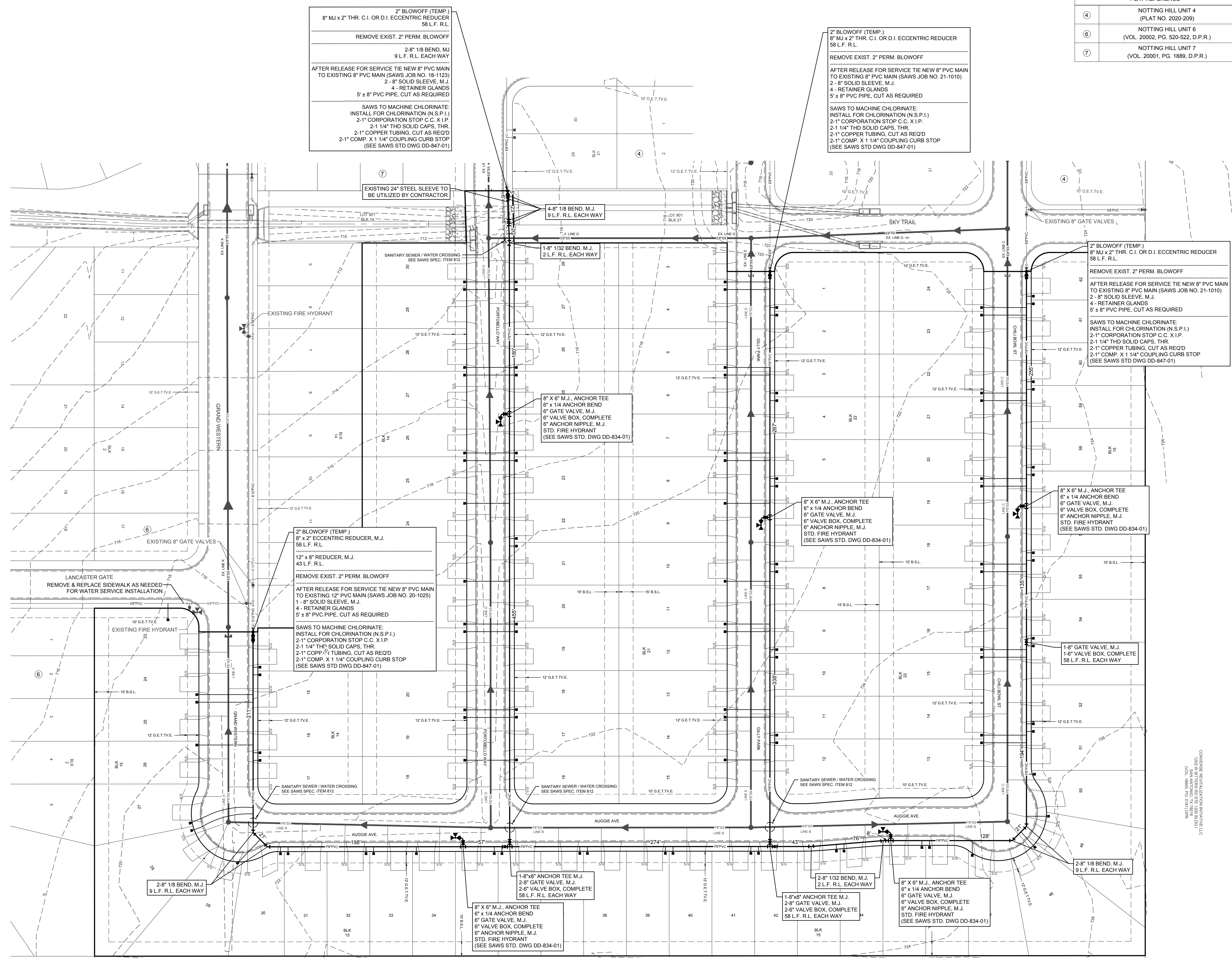
TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTORS INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ENGINEER/TECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTORS' TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS. CONTRACTORS SHALL BE RESPONSIBLE FOR THE CONTRACTORS' IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION, SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTORS INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ENGINEER/TECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL BE RESPONSIBLE FOR THE CONTRACTORS' IMPLEMENTATION OF THE PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

PRESSURE ZONE: 950E

Developer's Name CASTLEROCK COMMUNITIES			
Developer's Address 2401 FOUNTAIN VIEW DRIVE, SUITE 215			
City HOUSTON	State TEXAS	Zip 77057	
Phone # (713) 600-7060	Fax # ()		
SAWS Block Map# 22-0596		Total EDU's 107	Total Acreage 16.379
Total Linear Footage of Pipe: 8' 2921 LF		Plat No. 2021-224	
Number of Lots: 107	SAWS JOB NO. 21-1265		

ALL WATER PIPE TO BE C-900, CLASS 235 (DR-18)
UNLESS OTHERWISE NOTED



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6603 CELLES MEADOW DR
CONVERSE, TX 78109
PEDRO HERNANDEZ SUBD
BLK L LOT 1 *
(NCL 45379, PO 2509) DPR

SOSA ALICIA & ERNESTO
9065 WICHICHO RD
CONVERSE, TX 78109
PEDRO HERNANDEZ SUBD
BLK L LOT 3
(NCL 42261, PO 2509) DPR

..... 5699 MENDOZA
PINEDO HERNANDEZ 5900
BLVD 10115
[VOL. 5500] TX 76061 PER
.....

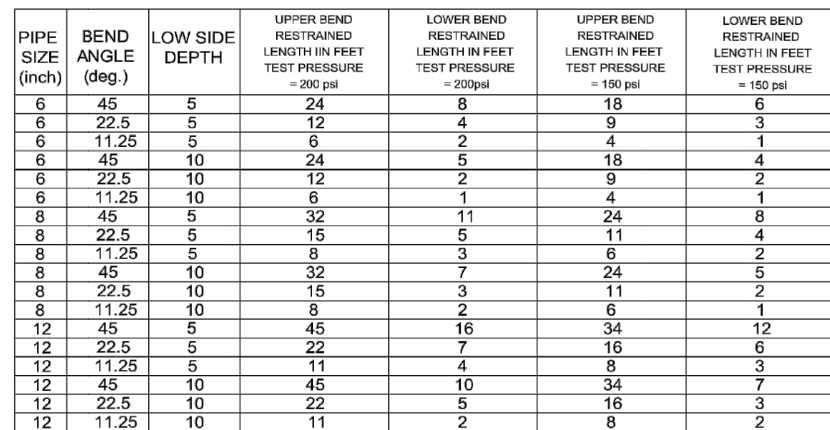
CONVERSE REVITALIZATION INITIATIVE LLC
1202 W BITTERS RD STE 1200 BLDG I
SAN ANTONIO, TX 78216
(VOL. 18600, PG. 0181) DPR

RESTRAINED LENGTH DESIGN

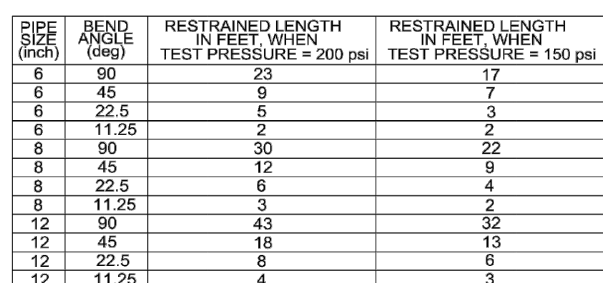
Restrained length calculations are for P.V.C pipe bedded in compacted granular material extending to the top of the pipe. The native soil material is assumed to be inorganic clay of high plasticity. Depth of bury is assumed to be 4 feet.

Note:
These calculations are provided for reference. The restrained length shall be designed based upon the conditions encountered during the installation.

L=LENGTH TO BE RESTRAINED



L=Length to be restrained



PROPERTY OF
SAN ANTONIO WATER SYSTEM
SAN ANTONIO, TEXAS

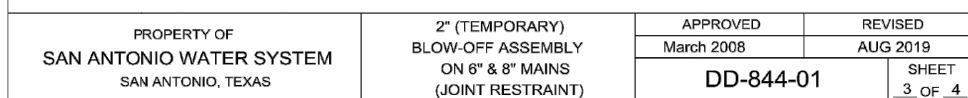
PROPERTY OF
SAN ANTONIO WATER SYSTEM
SAN ANTONIO, TEXAS

PROPERTY OF
SAN ANTONIO WATER SYSTEM
SAN ANTONIO, TEXAS

PROPERTY OF
SAN ANTONIO WATER SYSTEM
SAN ANTONIO, TEXAS

PROPERTY OF
SAN ANTONIO WATER SYSTEM
SAN ANTONIO, TEXAS

PROPERTY OF
SAN ANTONIO WATER SYSTEM
SAN ANTONIO, TEXAS



Developer's Name CASTLEROCK COMMUNITIES			
Developer's Address 2401 FOUNTAIN VIEW DRIVE, SUITE 215			
City HOUSTON	State TEXAS	Zip 77057	
Phone # (713) 600-7060	Fax # ()		
SAWS Block Map # 22-0596	Total EDU's 107	Total Acreage 16.379	
Total Linear Footage of Pipe: 8" 2,921 LF		Plat No. 2021-224	
Number of Lots: 107	SAWS JOB NO. 21-1265		

ALL WATER PIPE TO BE C-900, CLASS 235 (DR-18)
UNLESS OTHERWISE NOTED

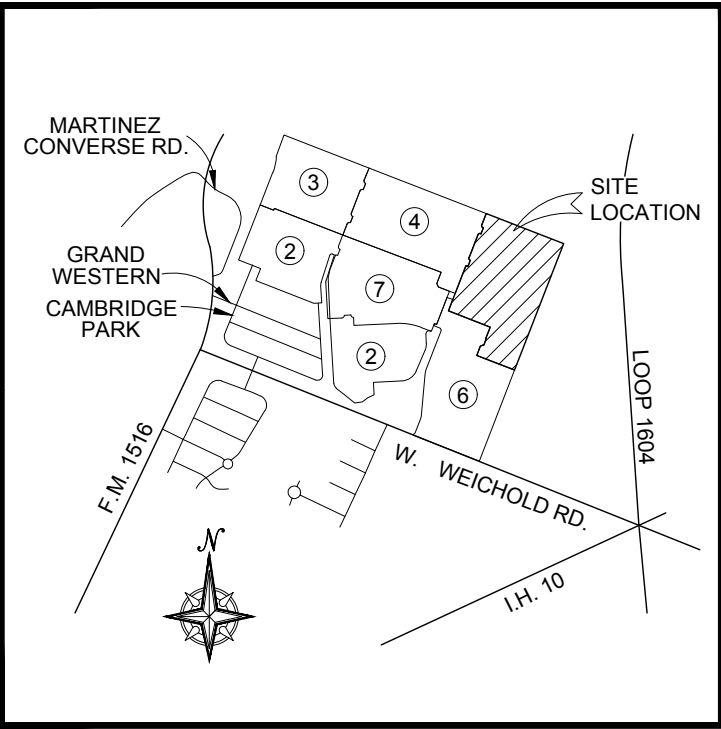
STREET & DRAIN
CONSTRUCTION PLANS
for
NOTTING HILL
UNIT 5

GENERAL NOTES

1. All materials and construction procedures within the scope of this project shall, be approved by the City of Converse Public Works and comply with the following as applicable:
A. Reference to Current "San Antonio Water System Utility Specifications"
B. Reference to Current City of San Antonio "Standard Specifications for Public Works Construction"
2. The locations and depths of existing utilities, including service laterals, and drainage structures shown on the plans are approximate only. The Contractor shall verify the exact location and depths of underground utilities at least 48 hours prior to construction whether shown on plans or not, and to protect the same during construction. Texas State Wide One Call Locator 1-800-545-6005 City Public Service AT&T Time Warner Valero Energy Co.
3. The Contractor shall notify the City prior to the start of each phase of street construction and call for inspections with a minimum of 24 hours notice. City of Converse Public Works Department (210) 658-3453
4. Testing will be paid for by Developer, coordinated by Contractor, and witnessed by City.
5. Minimum Testing Schedule:
Densities - Subgrade 1 Per 500 Foot Minimum
Densities - Base 1 Per 500 Foot Minimum
Proctors - Subgrade 1 Per Material Per Subdivision
Proctors - Base 1 Per 5,000 C.Y.
Lime Series - Subgrade 1 Per Material Per Subdivision
Concrete - Structures 1 Set (3) Per 50 C.Y.
6. Transition washout crown to normal crown in 25'.
7. No extra payment shall be allowed for work called for on the plans, but not included in the bid proposal. This incidental work will be required and shall be included in the pay item to which it relates.
8. The contractor shall be responsible for restoring to its original or better condition any damage done to existing fences, concrete islands, street paving, curbs, shrubs, bushes or driveways. (No separate pay item).
9. Due to federal regulations Title 49, Part 192.171 CPS must maintain access to gas valves at all times. The contractor must protect and work around any gas valves that are in the project area.
10. Contractor shall notify the city inspector twenty four (24) hours prior to backfill of any utility trenches to schedule for density test as required.
11. All waste material shall become property of the contractor and shall be his sole responsibility to dispose of this material off the limits of the project. No waste material shall be placed in existing lows that will block or alter flow limits of existing artificial or natural drainage.
12. The contractor shall not place any waste material in the 100-year flood plain without first obtaining an approved Flood Plain Development Permit.
13. The contractor shall maintain all adjoining streets and traveled routes free from spilled and/or tracked construction materials and/or debris.
14. It is the contractor's responsibility to see that all signs and barricades are properly installed and maintained. All locations and distances will be decided upon in the field by the contractor, using the "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". The City's construction inspector will only be responsible to inspect barricades and signs. If, in the opinion of the construction inspector, the barricades and signs do not conform to established standards or are incorrectly placed or are insufficient in quantity to protect the general public, the inspector shall have the option to stop operations until such time as the conditions are corrected.

LEGEND

- WHEELCHAIR RAMPS _____
- WHEELCHAIR RAMP TYPE (I-IV) _____
- SINGLE DIRECTIONAL WHEELCHAIR RAMP _____
- DUAL DIRECTIONAL WHEELCHAIR RAMP _____
- WASHOUT CROWN _____
- SIDEWALK TO BE BUILT BY DEVELOPER _____
- PROPOSED DRIVEWAY _____
- TOP OF PVMT. ELEVATION _____
- EXISTING STREET LIGHT _____
- PROPOSED STREET LIGHT (100 WATT) _____



LOCATION MAP
NOT TO SCALE

Sheet List Table

Sheet Number	Sheet Title
500	STREET & DRAIN COVER
501	OVERALL GRADING PLAN
502	AUGGIE AVE PLAN & PROFILE
503	CHILI BOWL PLAN & PROFILE
504	GILLY PARK PLAN & PROFILE
505	PORTOBELLO WAY & GRAND WESTERN PLAN & PROFILE
506	STORM DRAIN A PLAN & PROFILE
507	DRAIN DETAILS
508	DRAIN DETAILS
509	STREET DETAILS
510	STREET DETAILS
511	SIGN PLAN

STREET IMPROVEMENTS

ITEM	DESCRIPTION	UNIT	EST/QTY
103.1	Remove Header Curb, Timber Guard Post, End of Road Markers	LF	132
104.1	Street Excavation	CY	6,390
107.1	Embankment (Final) (Dens. Cont.) (Type A)	CY	3,174
-	3"x5" Rock Subgrade Wrapped In Mirafi 180N Filter Fabric	SY	11,159
-	Tensar TX-5 Geogrid- Local A/ Local B	SY	11,159
200.1	13" Flexible Base- Local A	SY	9,825
201.1	16.75" Flexible Base- Local B	SY	1,334
202.1	Prime Coat	GAL	2,232
203.1	Tack Coat	GAL	947
205.4	2" Hot Mix Asphaltic Pavement (Type D)- Local A	SY	8,285
205.4	3" Hot Mix Asphaltic Pavement (Type D)- Local B	SY	1,178
500.4	Concrete Curb & Gutter w/ Rebar	LF	5,528
502.1	Concrete Sidewalk	SY	50
531.3	R1-1 Stop Sign (30"x30") (High Intensity)	EA	2
531.57	City of Converse Approved Street Name Signs	EA	8
SP1	Two-Way Blue Reflective Marker (Fire Hydrant)	EA	5
SP2	COSA Type 3 Ramp	EA	12
SP3	COSA Type 4 Ramp	EA	2

STORM DRAIN "A" IMPROVEMENTS

ITEM	DESCRIPTION	UNIT	EST/QTY
402.1	30" Corrugated H.D.P.E. Pipe	LF	5
403.8	Inlet Type II (Complete) (10 FT)	EA	2
407.4	Concrete Collars	CY	0.8
550.1	Trench Excavation Safety Protection	LF	5
-	3" French Drain	LF	37

TRENCH EXCAVATION SAFETY PROTECTION

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OWNER/DEVELOPER:
CASTLEROCK COMMUNITIES
2401 FOUNTAIN VIEW DRIVE, SUITE 215
HOUSTON, TEXAS 77057
PHONE: (713) 600-7060



CIVIL ENGINEERING CONSULTANTS
d b a . D O N D U R D E N , I N C .
11550 IH 10 WEST, SUITE 395
SAN ANTONIO, TEXAS 78230-1037
TEL: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #F-2214 / #10041000

PLAT NO. 2021-224

DESIGNED BY: D.V.B.
DRAWN BY: D.V.B.
DATE: 10/2021
JOB NO.: E0583807

CIVIL ENGINEERING CONSULTANTS
d b a . D O N D U R D E N , I N C .
11550 IH 10 WEST, SUITE 395
SAN ANTONIO, TEXAS 78230-1037
TEL: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #F-2214 / #10041000



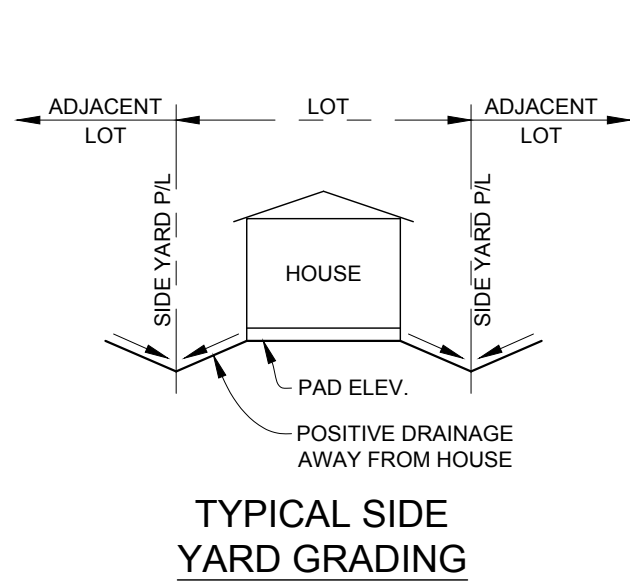
FOR BIDDING
PURPOSES ONLY
NOT FOR CONSTRUCTION

NOTTING HILL SUBDIVISION
UNIT 5
STREET & DRAIN COVER

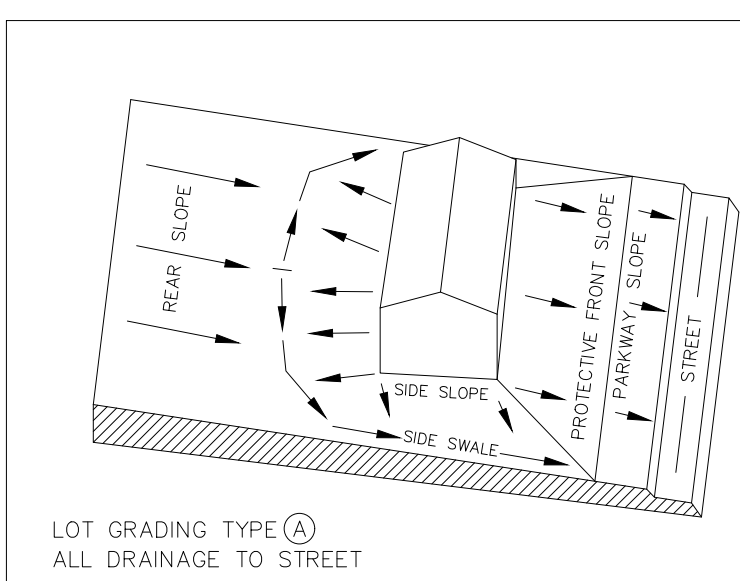
SHEET NO.

500

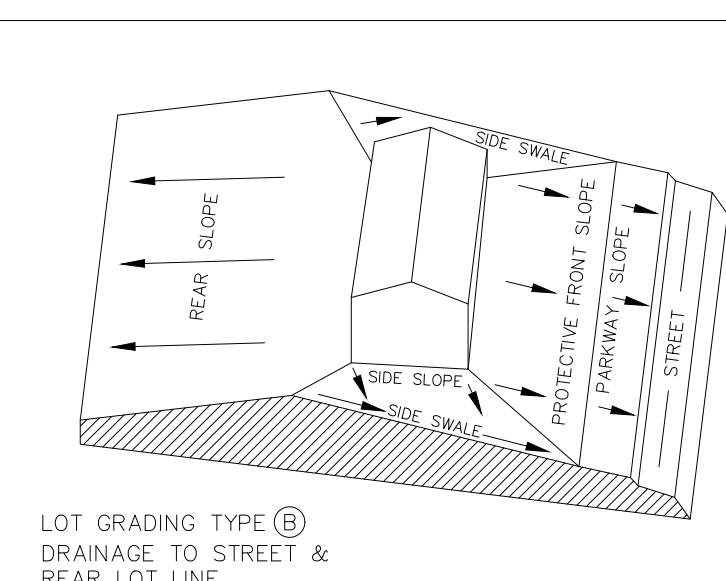
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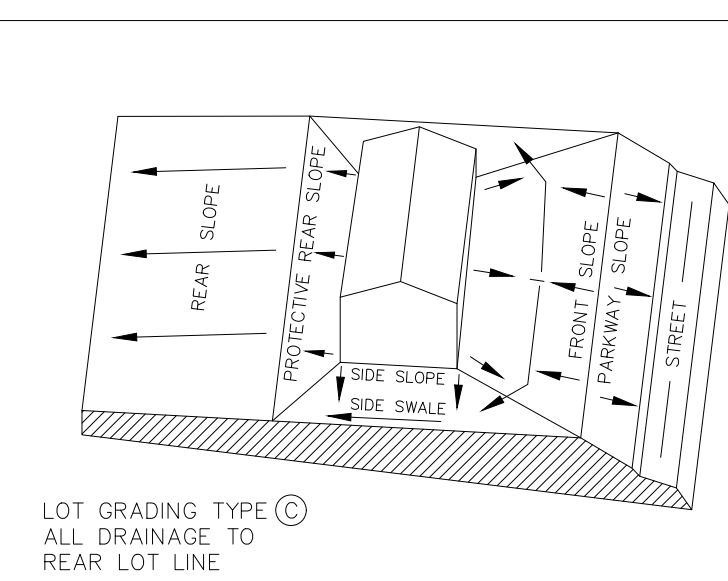
TYPICAL SIDE
YARD GRADING



LOT GRADING TYPE **A**
ALL DRAINAGE TO STREET

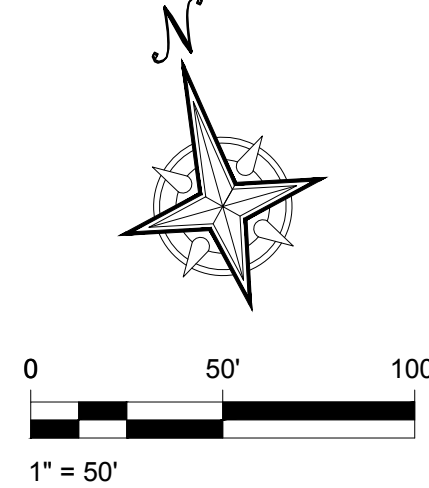


LOT GRADING TYPE **B**
DRAINAGE TO STREET &
REAR LOT LINE



LOT GRADING TYPE **C**
ALL DRAINAGE TO
REAR LOT LINE

1. Fill Materials: Materials shall consist of soils approved by the Engineer from sources identified and approved. The soil shall be free of vegetable matter and other deleterious substance and shall not contain rocks or lumps having a diameter greater than six inches (6").
2. Depth and Mixing of Fill Layers: The selected fill material shall be placed in level, uniform layers which, when compacted, shall have a density conforming to required amount of compaction. Each layer shall be thoroughly blade mixed during the spreading to insure uniformity of material in each layer. Compacted layer thickness normally will be six inches (6"), however, it may be increased to twelve inches (12") if compaction equipment of demonstrated capability will be used.
3. Rock: When fill material includes rock, the maximum rock size acceptable shall be six inches (6"). No large rocks shall be allowed to nest and all voids must be carefully filled with small stones or earth, and properly compacted. No large rocks will be allowed within twelve inches (12") of the finished surface.
4. Moisture Content: The fill material shall be compacted at the appropriate moisture content specified for the soils being used and identified in soil and laboratory reports. Moisture content tolerances shall be plus or minus 3% from optimum.
5. Amount of Compaction: After each layer (lift) has been placed, mixed and spread evenly, it shall be compacted to the specified density. The specified density shall be stated as a percentage of the maximum density attainable using current ASTM D 698 to 95 percent density. Compaction of Fill Layer: Compaction equipment shall be of such design that it will compact the fill to the appropriate specified density at the optimum moisture content. Compaction effort shall be continuous over each layer until density has been achieved.
6. Density Tests: Field density tests shall be made by the Soils Engineer after the compaction of each layer. When test indicate that the density of any layer or portion is below required density, the area shall be reworked until density is obtained. The number of tests shall be established by the Soil Engineer to certify to the required 79G letter requirements.

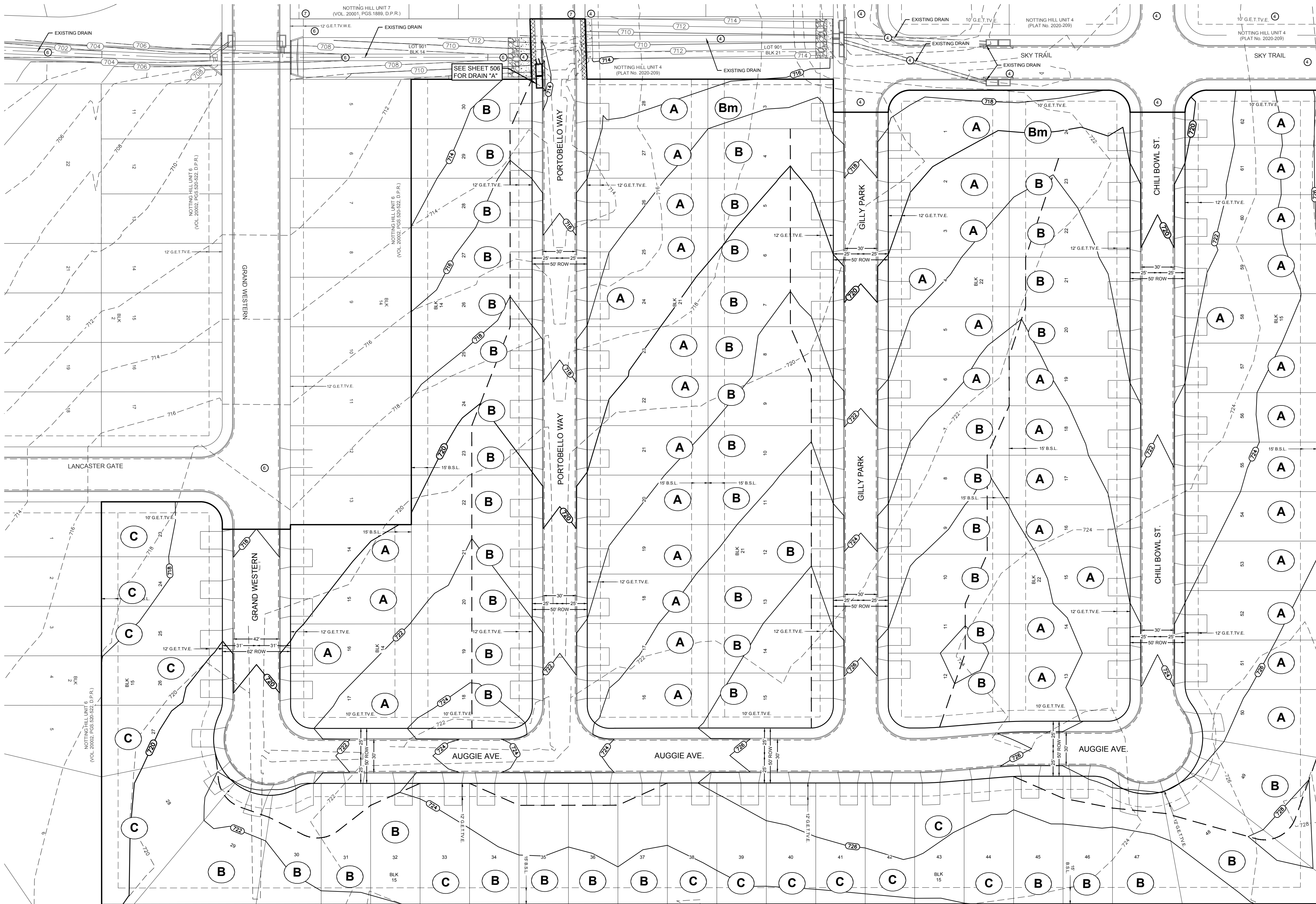


LEGEND

- 740 PROPOSED FINISHED CONTOUR
 - 740 EXISTING CONTOUR
 - A, B & C LOT GRADING TYPE
- A-LOT DRAINS TO FRONT
B-LOT DRAINS TO FRONT AND REAR
C-LOT DRAINS TO REAR

NOTES:

1. DRIVEWAYS SHALL BE LOCATED ON THE HIGH SIDE OF EACH LOT.
2. FINISHED FLOOR ELEVATIONS SHALL BE A MINIMUM OF 8" ABOVE FINAL GRADE AFTER PLACEMENT OF TOP SOIL AND SOO.
3. FINAL LOT SWALES SHALL BE PLACED WITH HOME CONSTRUCTION.



CONVERSE REVITALIZATION
INITIATIVE LLC
1202 W BITTERS RD STE 1200 BLDG 1
SAN ANTONIO, TX 78216
(VOL. 18800, PG. 0181) DPR

CONVERSE REVITALIZATION
INITIATIVE LLC
1202 W BITTERS RD STE 1200 BLDG 1
SAN ANTONIO, TX 78216
(VOL. 18800, PG. 0181) DPR

KNOX RIDGE PHASE 1, UNIT 2
(DOC. 20200524750) DPR

8

PLAT NO. 2021-224

DESIGNED BY: D.Y.B.
DRAWN BY: D.Y.B.
DATE: 10/20/21
JOB NO.: E0563607

CIVIL ENGINEERING CONSULTANTS
d.b.a. DON DURDEN, INC.
15550 HINDS WEST SUITE 395
SAN ANTONIO, TEXAS 78230-1037
TEL: (210) 641-9969
FAX: (210) 641-6440
REGISTRATION #2214 / #10041000



FOR BIDDING
PURPOSES ONLY
NOT FOR CONSTRUCTION

REV DATE DESCRIPTION

NOTTING HILL SUBDIVISION
UNIT 5
OVERALL GRADING PLAN

SHEET NO.

501

TRENCH EXCAVATION SAFETY PROTECTION
CONTRACTOR AND/OR CONTRACTORS INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTORS TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION, SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTORS INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARD COPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL.

TRENCH EXCAVATION SAFETY PROTECTION
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION, SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

STREETLIGHT NOTE
STREETLIGHT POLES TO BE CENTERED IN 5' GREEN SPACE BETWEEN SIDEWALK AND BACK OF CURB.

DRIVEWAY NOTE
DRIVEWAYS SHOWN ON THIS PLAN ARE FOR THE SOLE PURPOSE OF INDICATING A POTENTIAL CONFLICT WITH CURB RAMP, DRAINAGE INFRASTRUCTURE, OR OTHER CONFLICT. DRIVEWAY LOCATION IS SUBJECT TO CHANGE BASED ON HOME SELECTION AND FINAL LOT DESIGN.

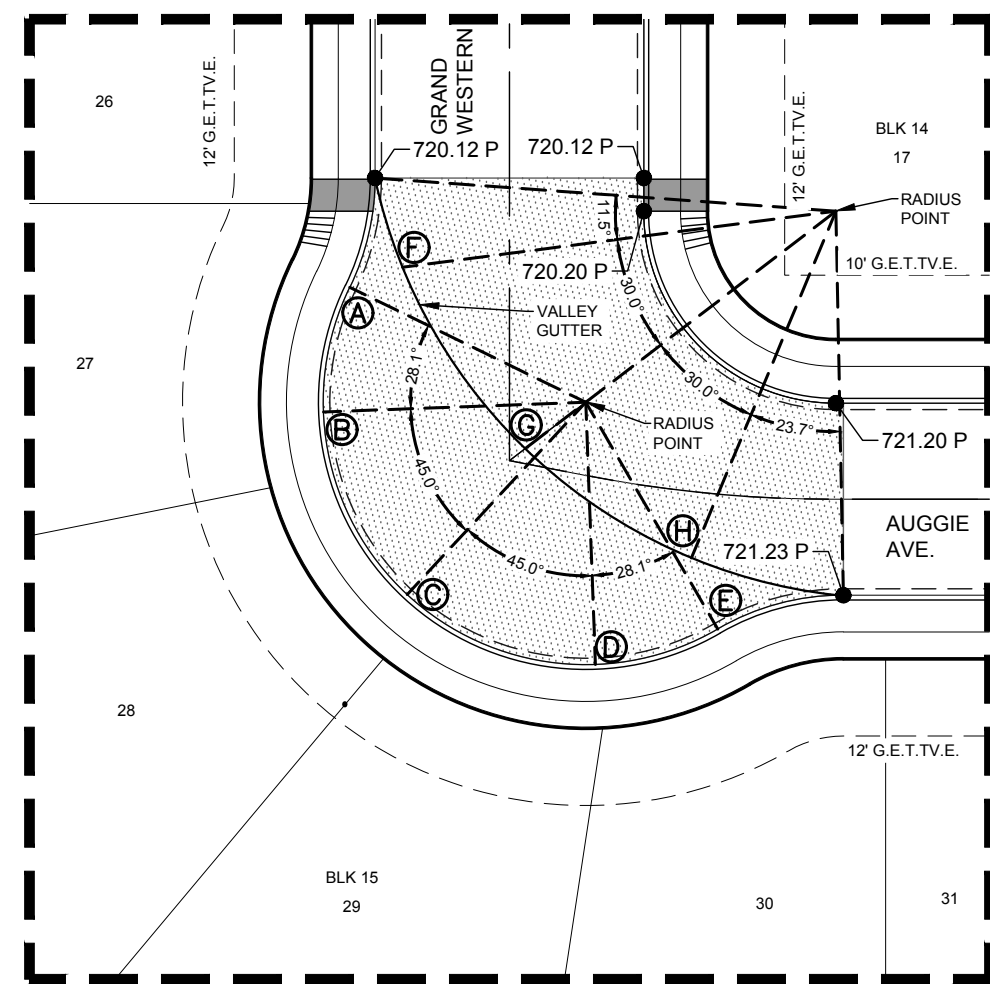
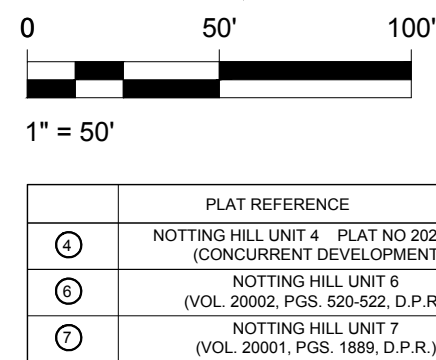
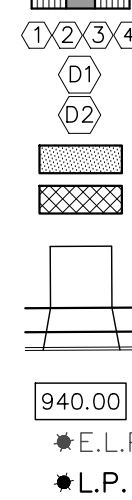
3 TYPICAL SIDEWALK RAMP - TYPE III
4 TYPICAL SIDEWALK RAMP - TYPE IV
REFER TO WHEELCHAIR RAMP STANDARDS ON STREET DETAILS.

Line Table		
Line	Length	Direction
L1	15.00'	S21°59'13"E
L2	12.29'	N26°24'37"E
L3	274.97'	N15°23'36"E
L4	63.37'	N15°13'20"E
L5	211.23'	N15°25'33"E
L6	54.79'	N10°44'17"E
L7	121.27'	N15°25'33"E
L8	14.00'	S60°25'33"W

Curve Table					
Curve #	Length	Radius	Delta	Chord Direction	Chord Length
C1	38.46'	200.00'	11°01'01"	N20°54'08"E	38.46'
C2	1.49'	500.00'	0°10'10"	N15°18'26"E	1.49'
C3	1.78'	500.00'	0°12'13"	N15°19'26"E	1.78'
C4	20.45'	250.00'	4°41'16"	N13°04'55"E	20.45'
C5	20.45'	250.00'	4°41'16"	N13°04'55"E	20.45'

LEGEND

WHEELCHAIR RAMPS
WHEELCHAIR RAMP TYPE (I-IV)
SINGLE DIRECTIONAL WHEELCHAIR RAMP
DUAL DIRECTIONAL WHEELCHAIR RAMP
WASHOUT CROWN
SIDEWALK TO BE BUILT BY DEVELOPER
PROPOSED DRIVEWAY
TOP OF PVMT, ELEVATION
EXISTING STREET LIGHT
PROPOSED STREET LIGHT (100 WATT)

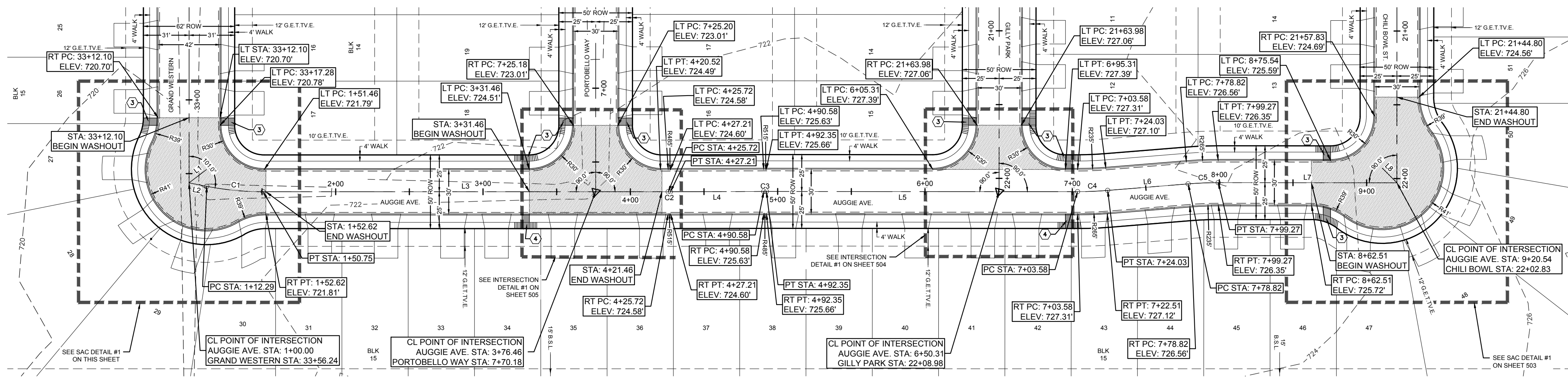


SAC DETAIL #1

SCALE: 1" = 30'

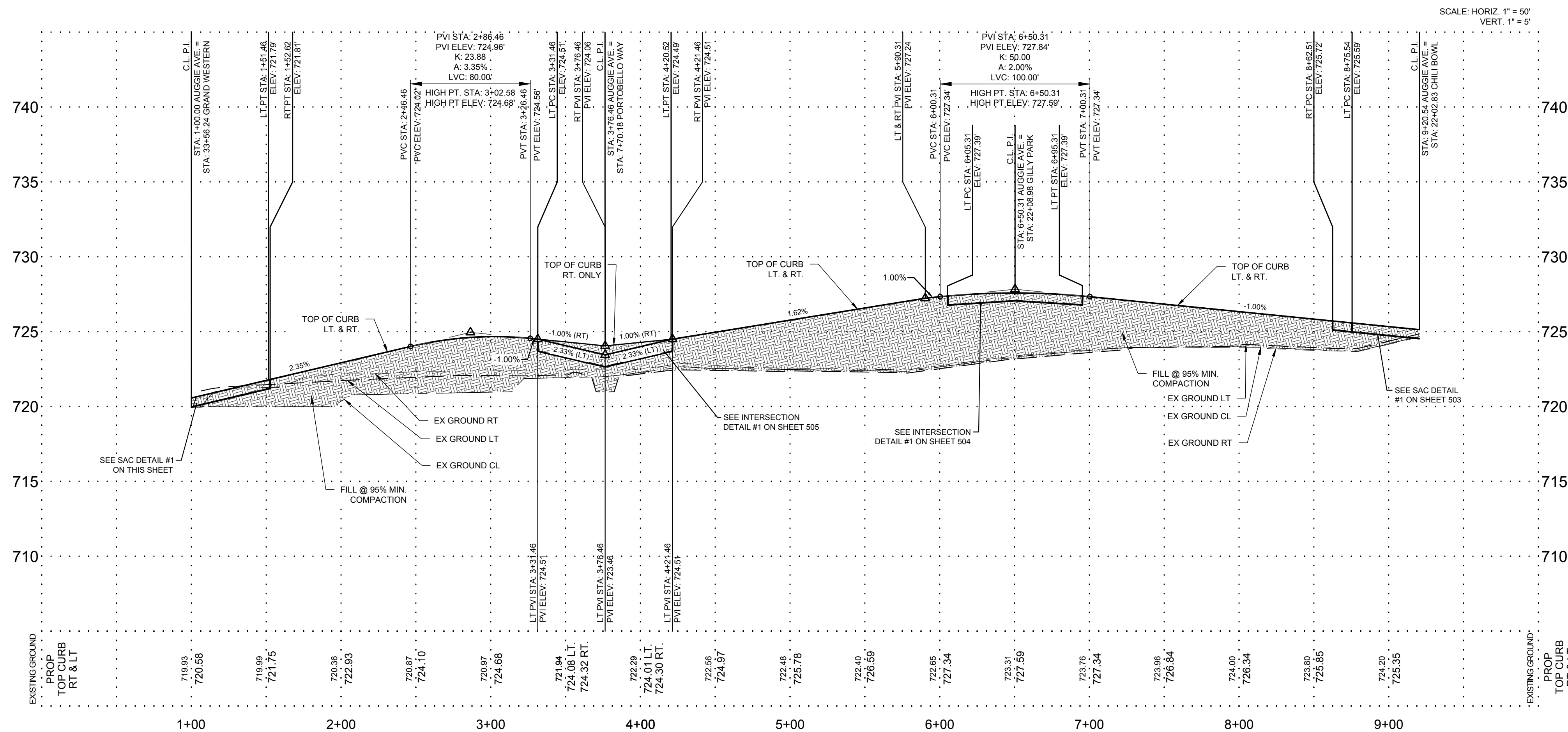
POINT	CURB ELEV.	GUTTER ELEV.
RT PC	720.70	720.12
A	721.02	720.44
B	721.41	720.83
C	721.83	721.25
D	721.92	721.34 *
E	721.86	721.28
F		720.33
G		720.67
H		720.98
LT PT	721.81	721.23

NOTE: * HIGH POINT



AUGGIE AVE

STA 1+00.00 TO STA 9+20.54
DESIGN SPEED = 30 MPH

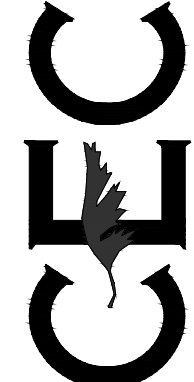


NOTTING HILL SUBDIVISION
UNIT 5
AUGGIE AVE PLAN & PROFILE

502

DESIGNED BY: D.Y.B.
DRAWN BY: D.Y.B.
DATE: 10/20/21
JOB NO.: E0563607

CIVIL ENGINEERING CONSULTANTS
d.b.a. DON DURDEN, INC.
15550 HILLO WEST BLVD., SUITE 395
SAN ANTONIO, TEXAS 78230-7037
TEL: (210) 641-9969
FAX: (210) 641-6440
REGISTRATION #F-2214 / #10041000



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REV. DATE DESCRIPTION

SHEET NO.

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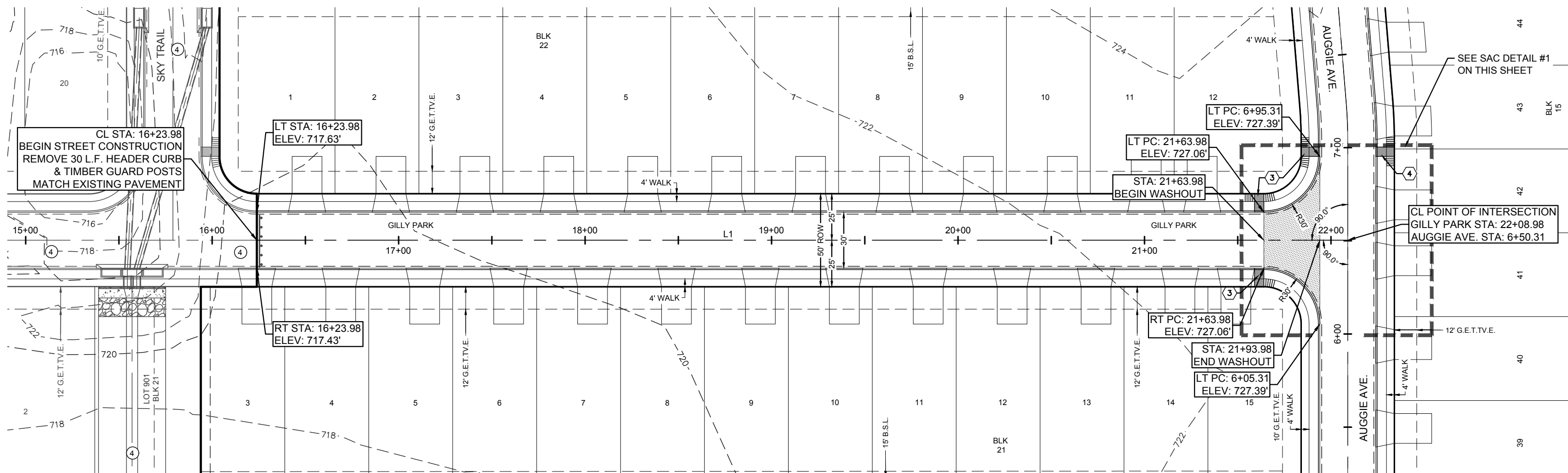
TRENCH EXCAVATION SAFETY PROTECTION
CONTRACTOR AND/OR CONTRACTORS INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION, SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

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STREETLIGHT POLES TO BE CENTERED IN 5' GREEN SPACE BETWEEN SIDEWALK AND BACK OF CURB.

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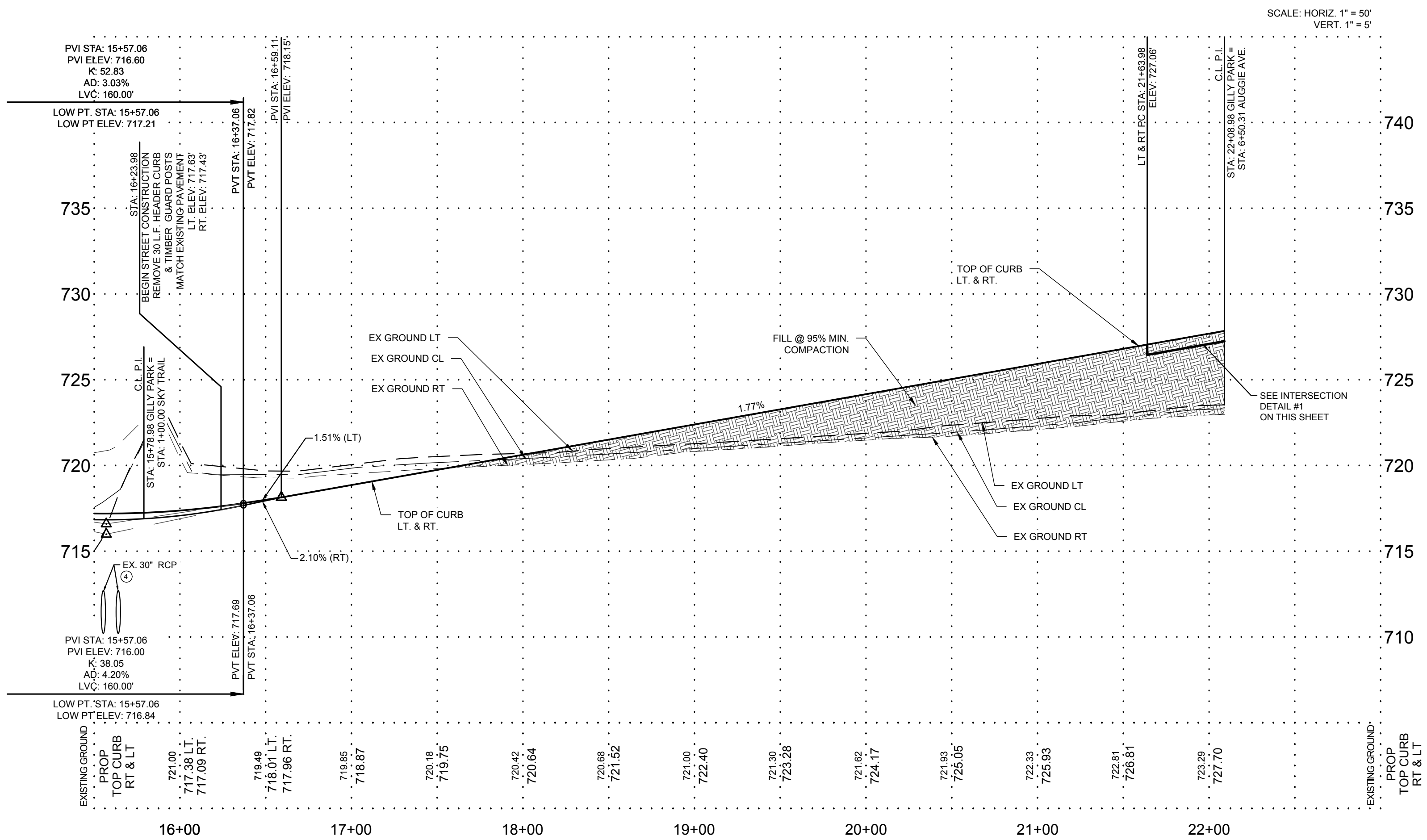
- 1 TYPICAL SIDEWALK RAMP - TYPE I
2 TYPICAL SIDEWALK RAMP - TYPE II
3 TYPICAL SIDEWALK RAMP - TYPE III
4 TYPICAL SIDEWALK RAMP - TYPE IV
REFER TO WHEELCHAIR RAMP STANDARDS ON STREET DETAILS.

Line Table		
Line	Length	Direction
LT	985.01'	STA 3427'E



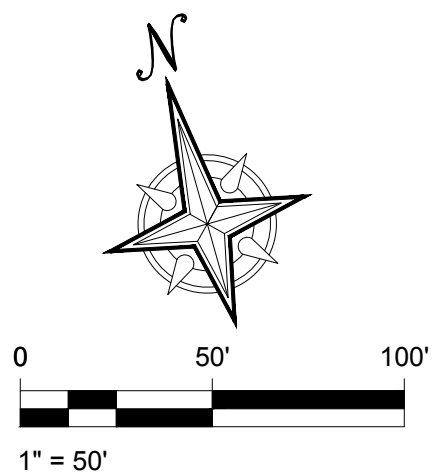
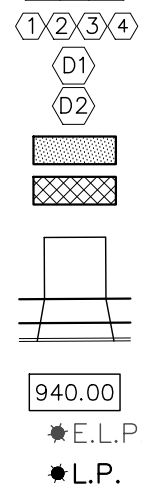
GILLY PARK

STA. 16+23.98 TO STA. 22+08.98
DESIGN SPEED = 30 MPH

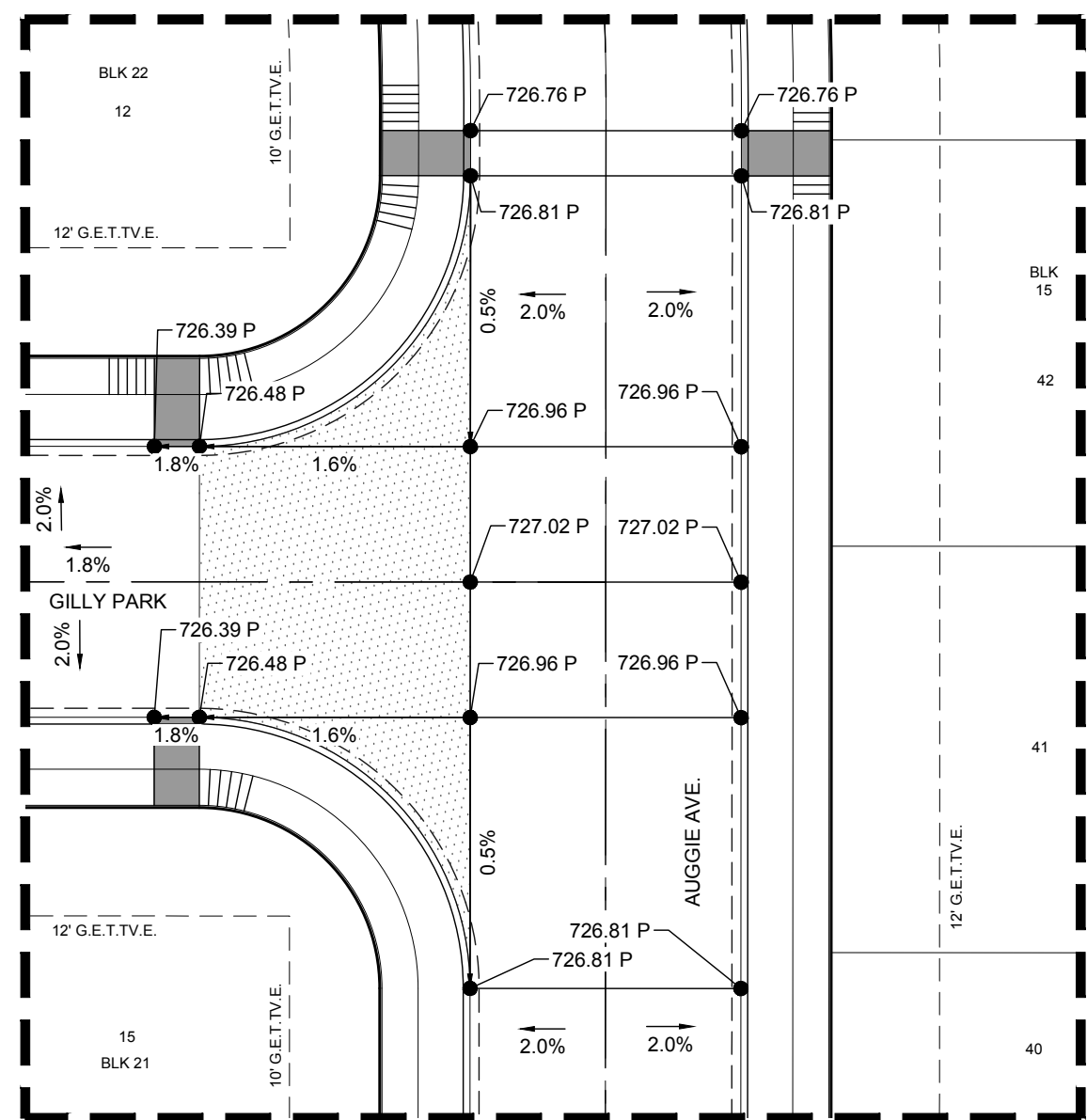


LEGEND

- WHEELCHAIR RAMPS
WHEELCHAIR RAMP TYPE (I-IV)
SINGLE DIRECTIONAL WHEELCHAIR RAMP
DUAL DIRECTIONAL WHEELCHAIR RAMP
WASHOUT CROWN
SIDEWALK TO BE BUILT BY DEVELOPER
PROPOSED DRIVEWAY
TOP OF PVMT, ELEVATION
EXISTING STREET LIGHT
PROPOSED STREET LIGHT (100 WATT)



PLAT REFERENCE	
4	NOTTING HILL UNIT 4 PLAT NO 2020-399 (CONCURRENT DEVELOPMENT)
6	NOTTING HILL UNIT 6 (VOL. 20003, PGS. 520-522, D.P.R.)
7	NOTTING HILL UNIT 7 (VOL. 20001, PGS. 1889, D.P.R.)



INTERSECTION DETAIL #1

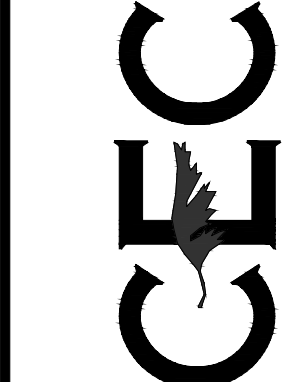
SCALE: 1" = 20'

NOTTING HILL SUBDIVISION
UNIT 5
GILLY PARK PLAN & PROFILE

SHEET NO.

504

REV DATE DESCRIPTION



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CIVIL ENGINEERING CONSULTANTS
d b a . DON DURDEN, INC.
15550 HILTON WAY, SUITE 335
SAN ANTONIO, TEXAS 78230-1037
TEL: (210) 641-9969
FAX: (210) 641-6440
REGISTRATION #F-2214 / #10041000

DESIGNED BY: D.V.B.
DRAWN BY: D.V.B.
DATE: 10/20/21
JOB NO.: E0563607

PLAT NO. 2021-224

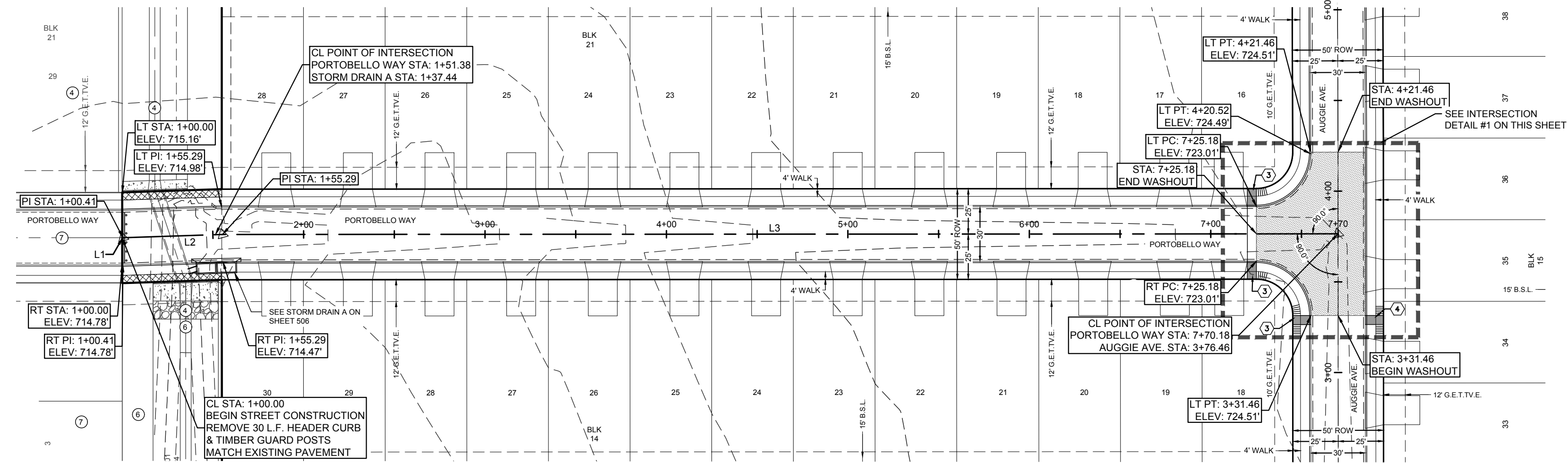
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE INFORMATION AND PREPARE A WRITTEN REVIEW OF THE PLANS AND INFORMATION AND REPORT THEREON IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION, SAFETY PROTECTION THAT COMPLIES WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS, ORDINANCES, REGULATIONS AND STANDARDS. THE CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

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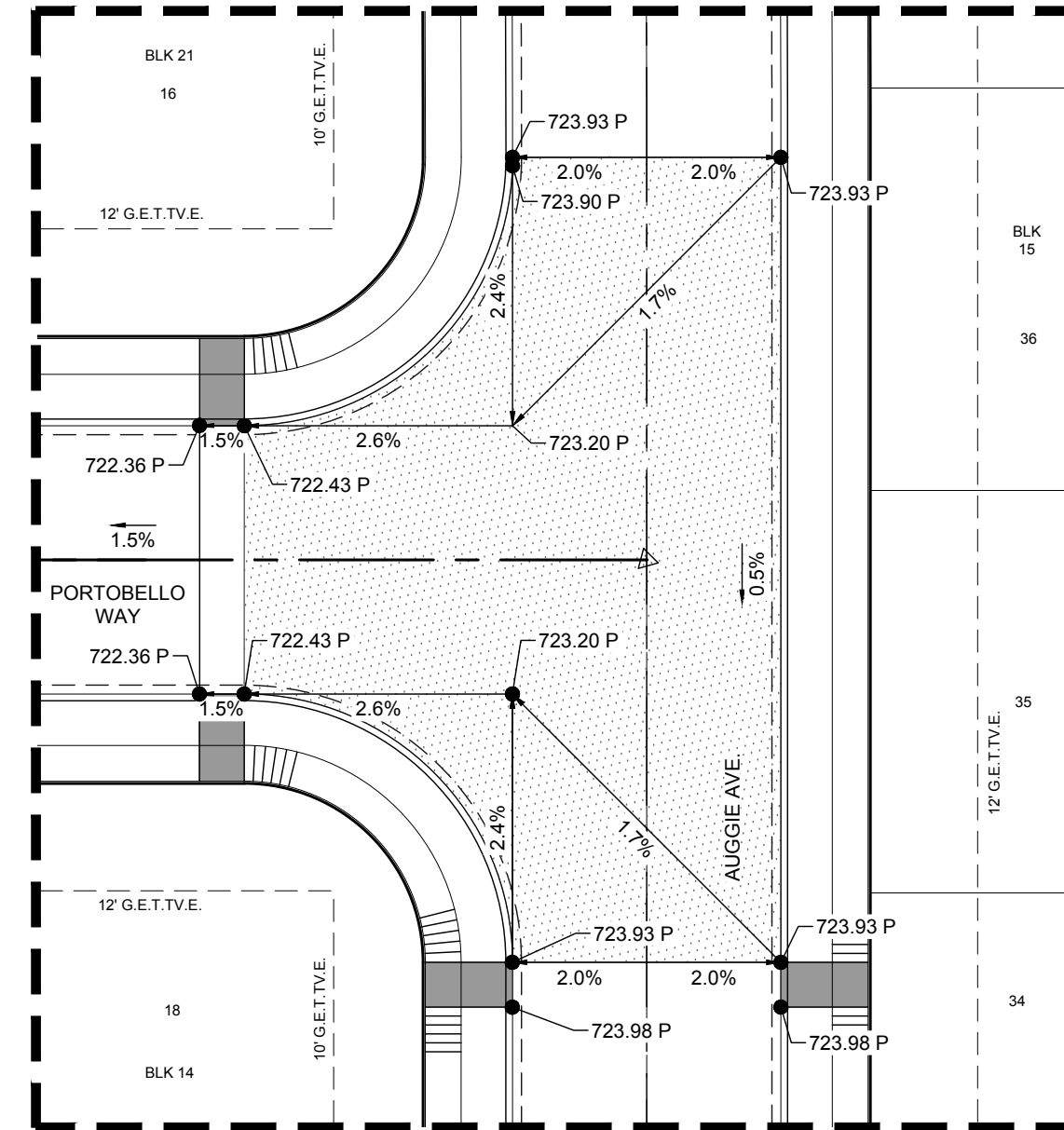
- REFER TO WHEELCHAIR RAMP
STANDARDS ON STREET DETAILS.

Line	Length	Direction
L1	0.41'	N74°34'27"W
L2	54.88'	N76°27'28"W
L3	614.88'	N74°36'24"W
L4	200.14'	S74°36'24"E
L5	15.00'	S21°59'13"E



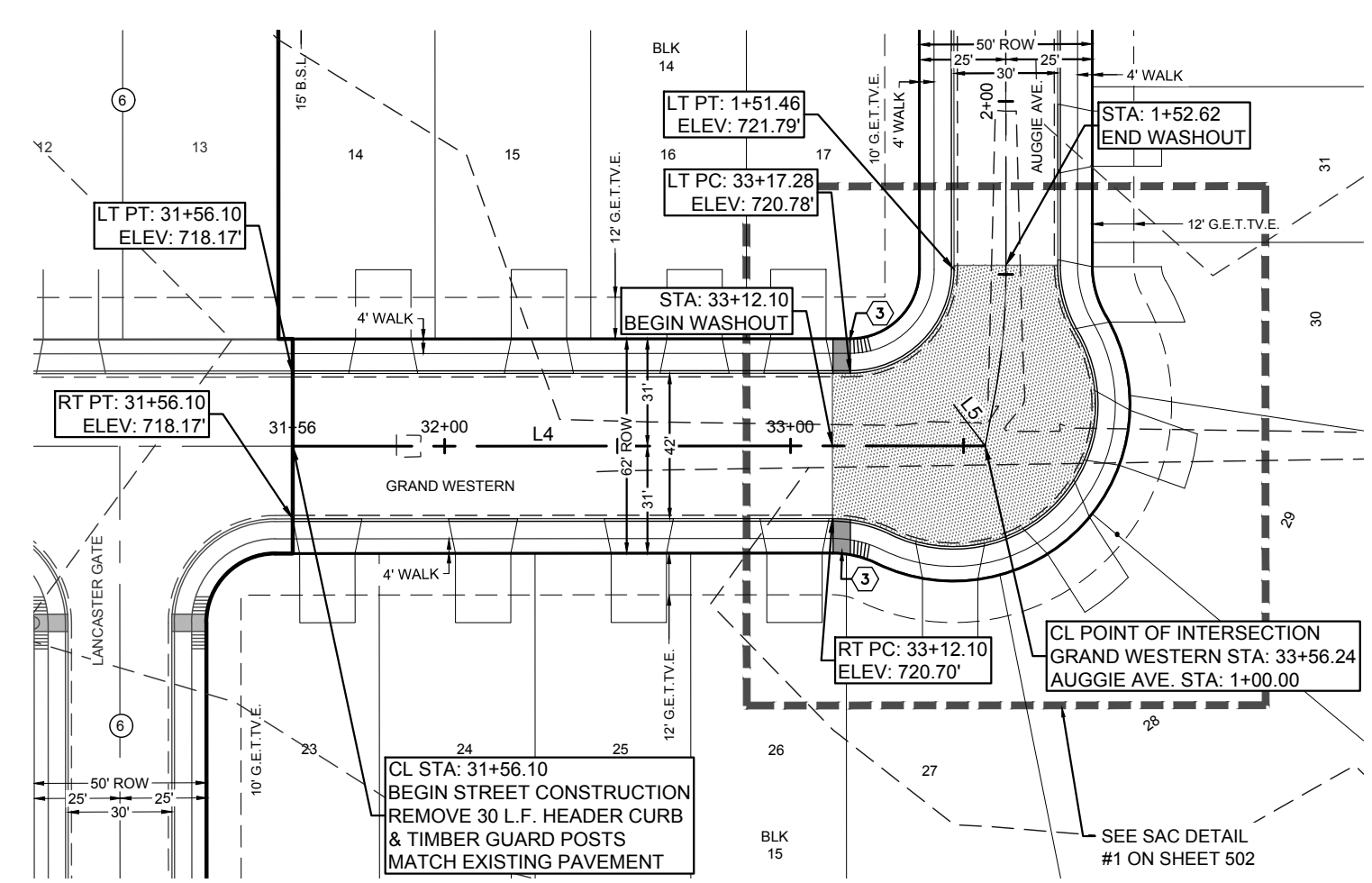
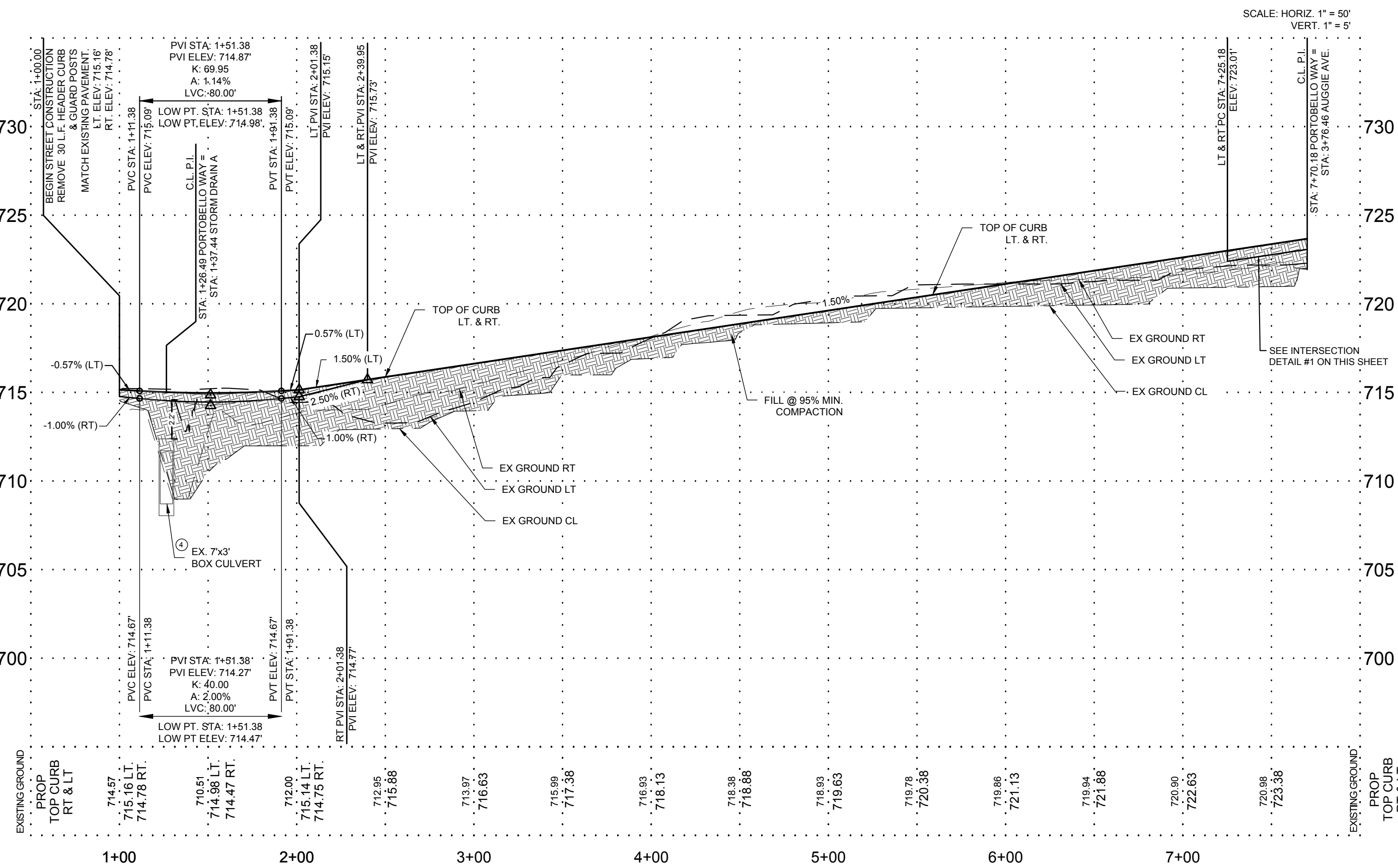
PORTOBELLO WAY

STA. 1+00.00 TO STA. 07+70.18
DESIGN SPEED = 30 MPH



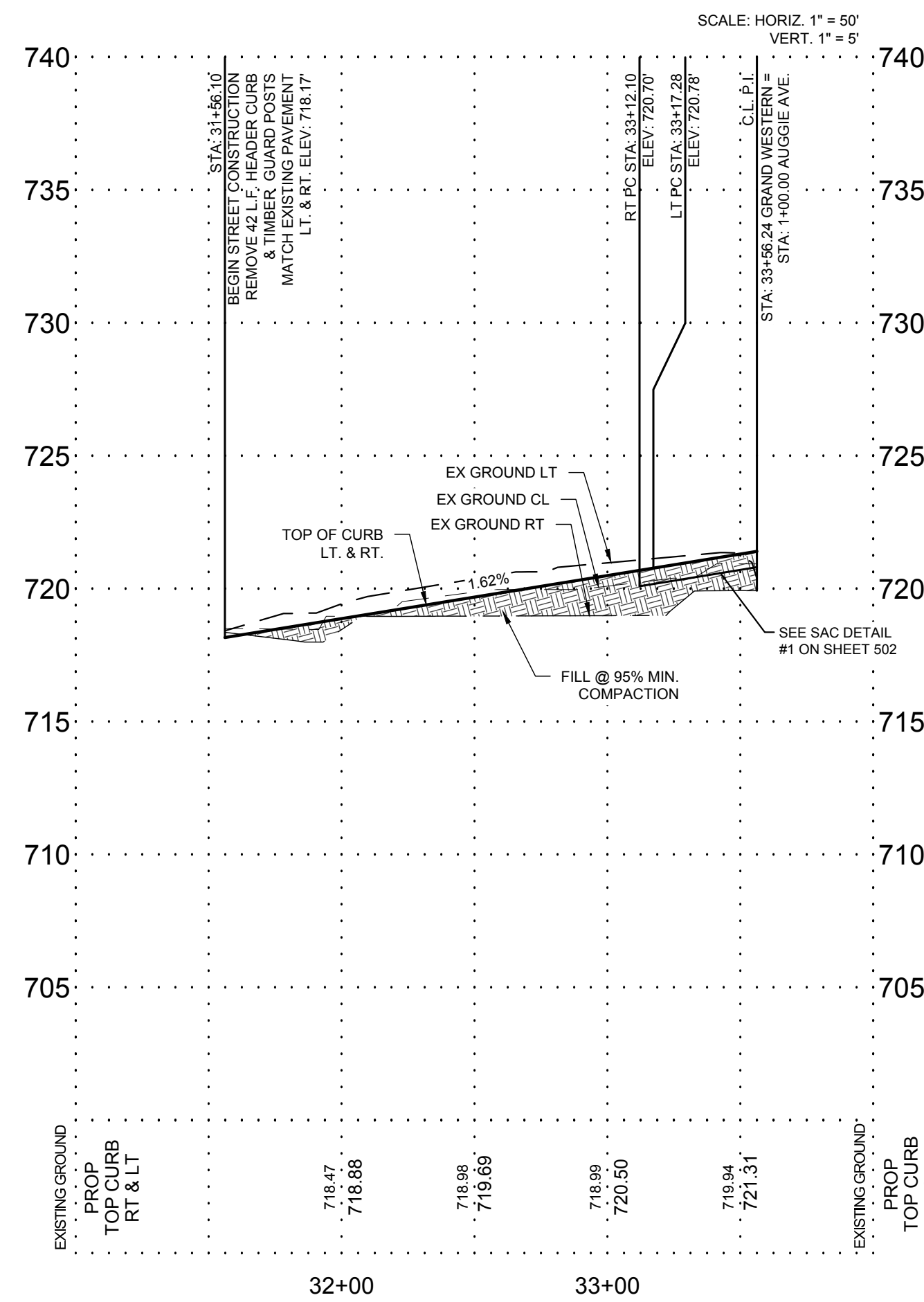
INTERSECTION DETAIL #1

SCALE: 1" = 20'



GRAND WESTERN

STA. 31+56.10 TO STA. 33+56.24
DESIGN SPEED = 30 MPH



LEGEND

WHEELCHAIR RAMPS

WHEELCHAIR RAMP TYPE (I-IV)

SINGLE DIRECTIONAL WHEEL

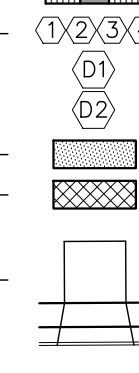
DUAL DIRECTIONAL WHEELCHAIR RAM
WASHOUT CROWN

PROPOSED DRIVEWAY

TOP OF PVMT. ELEVATION

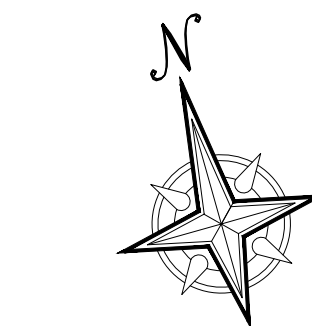
EXISTING STREET LIGHT _____

PROPOSED STREET LIGHT (100 WATT



940.00

- ● E.L.



0 50' 100'

1" = 50'

	PLAT REFERENCE
(4)	NOTTING HILL UNIT 4 PLAT NO 2020-209 (CONCURRENT DEVELOPMENT)
(6)	NOTTING HILL UNIT 6 (VOL. 20002, PGS. 520-522, D.P.R.)
(7)	NOTTING HILL UNIT 7 (VOL. 20001, PGS. 1888, D.P.R.)

PLAT NO. 2021-224

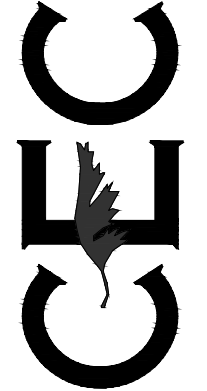
DESIGNED BY: **D.V.B.**

DRAWN BY: D.V.B.

DATE: 10/2021

JOB NO.: E0583607

CIVIL ENGINEERING CONSULTANTS
d/b/a. DON DURDEN, INC.
11550 IH 10 WEST, SUITE 395
SAN ANTONIO, TEXAS 78230-1037
TEL: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #F-2214 / #100410000



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[illegible]

NOTTING HILL SUBDIVISION

UNIT 5

PORTOBELLO WAY & GRAND

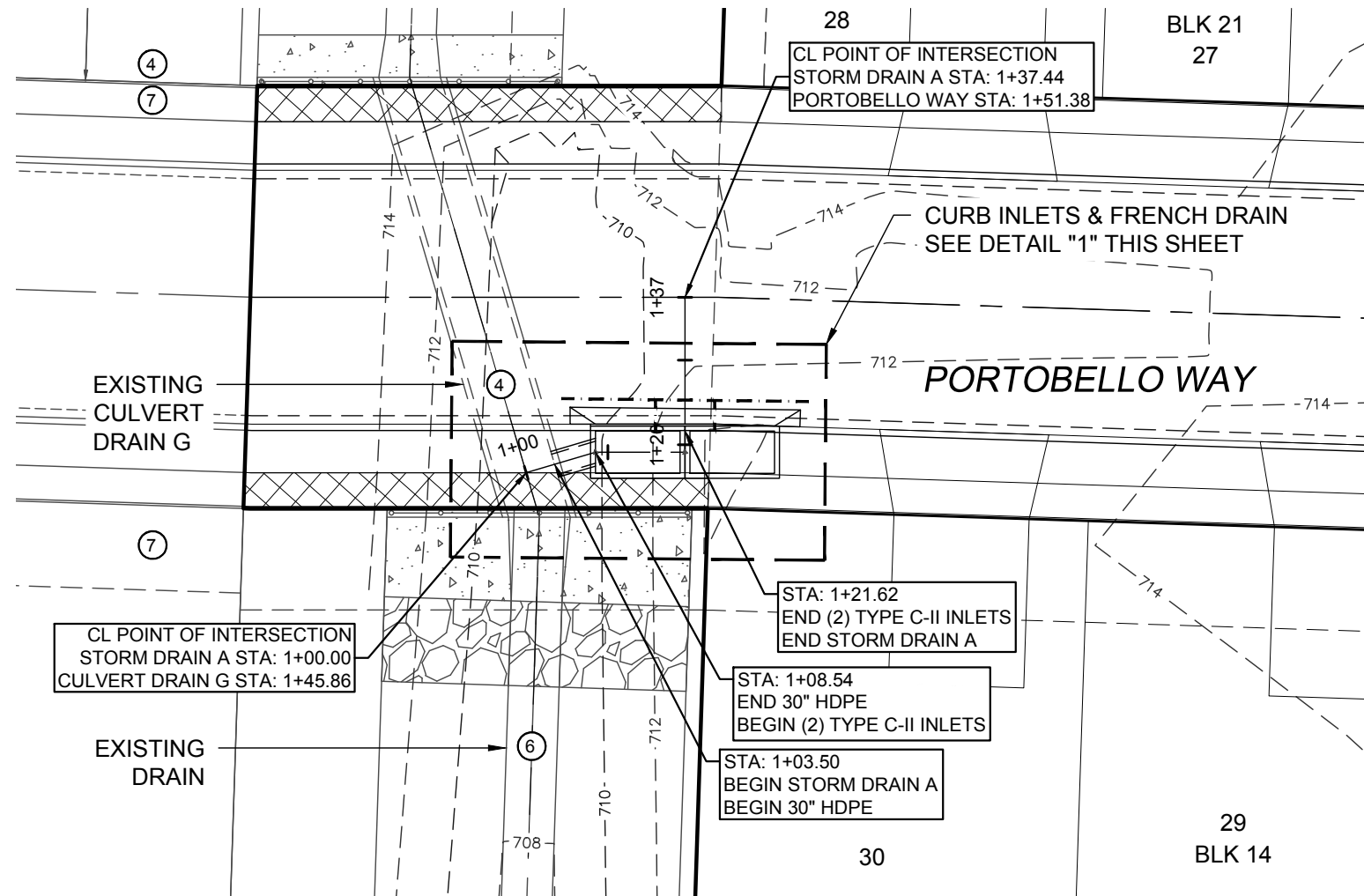
WESTERN PLAN & PROFILE

SHEET NO.

505

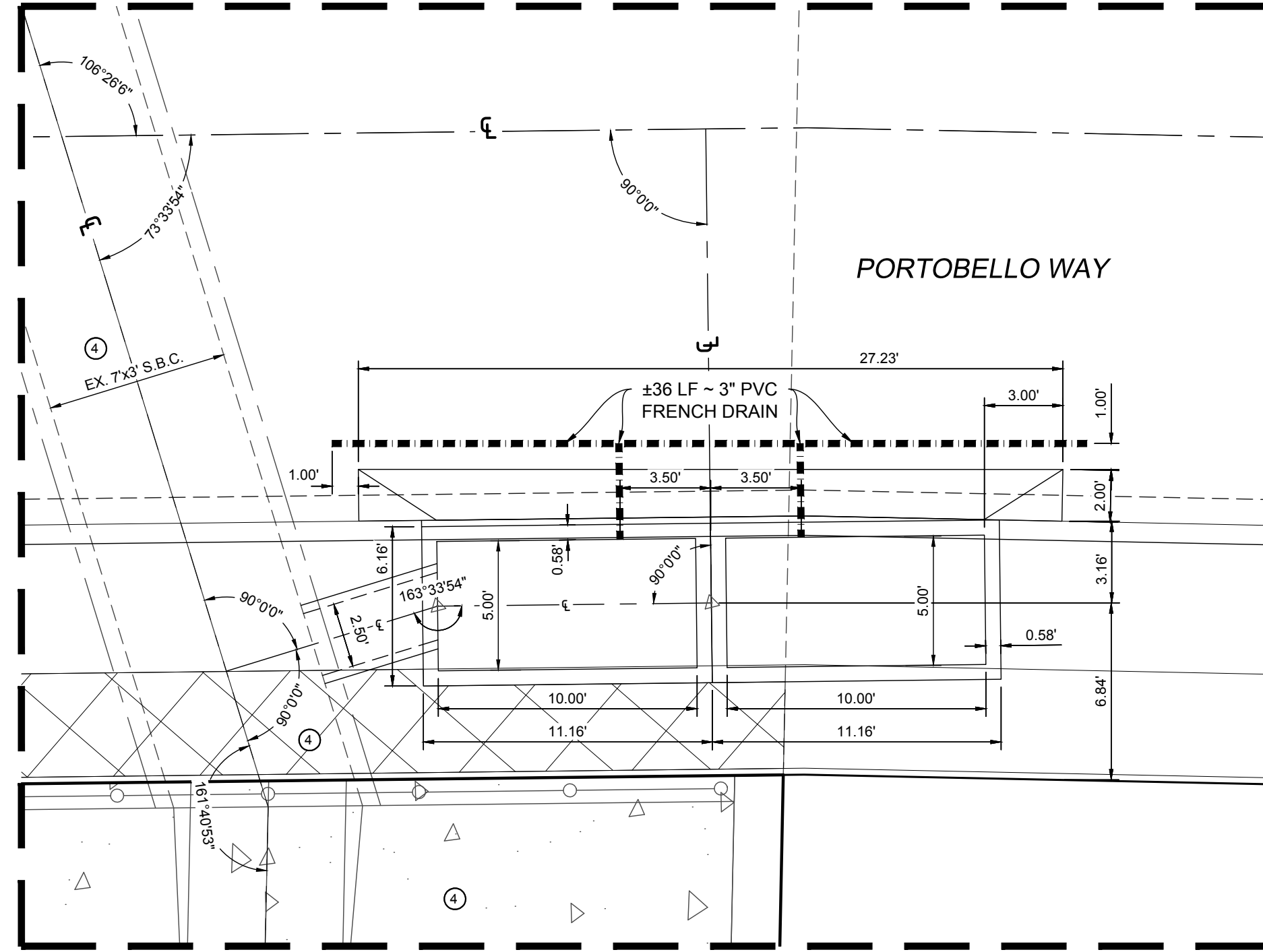
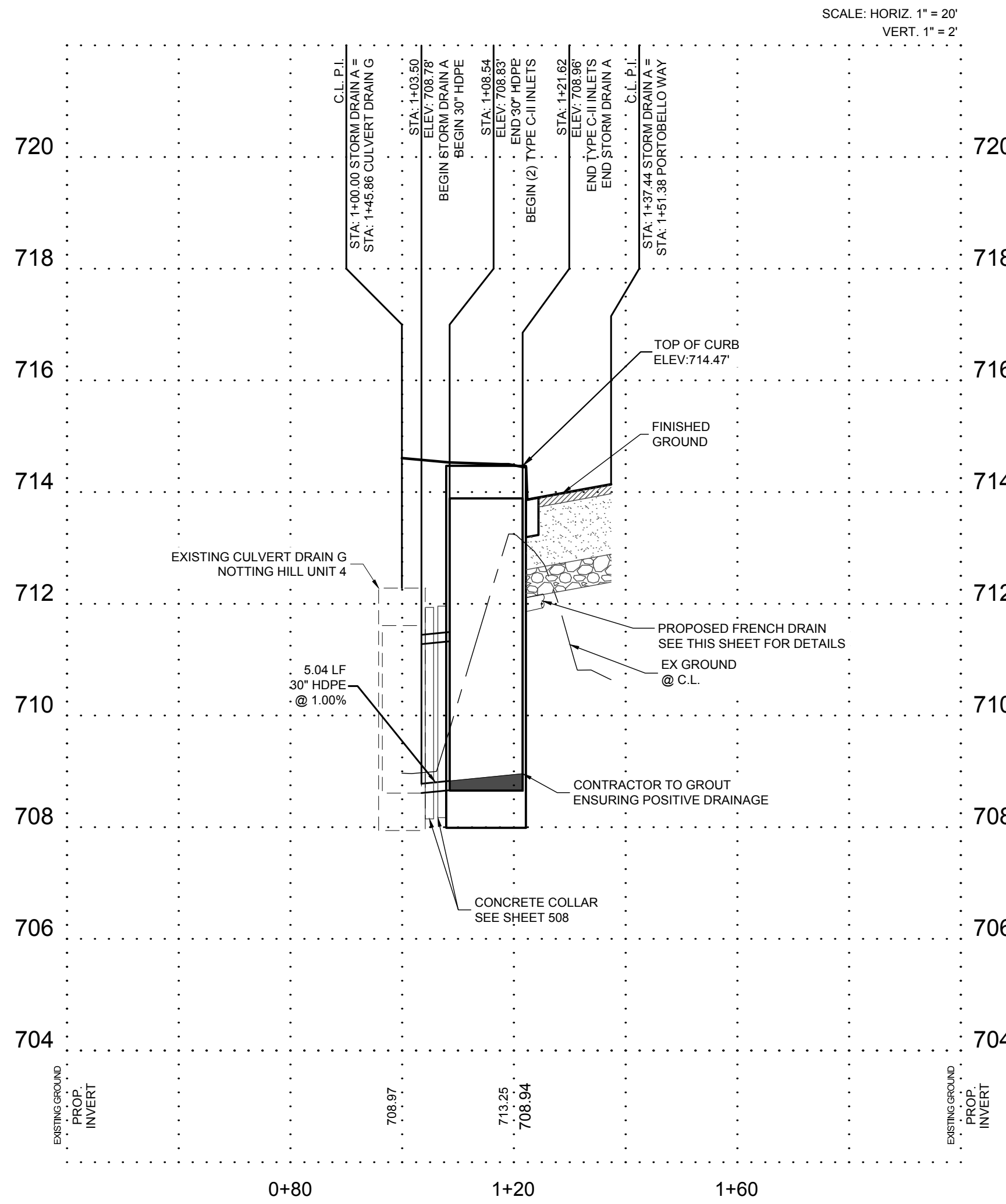
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Date: May 28, 2025, 8:07am User ID: Lance.Elling File: L:\develop\Proj_2021\E0583607_Nothing Hill Unit 5\cod\E0583607_505 PORTOBELLO & GWESTERN P&P.dwg



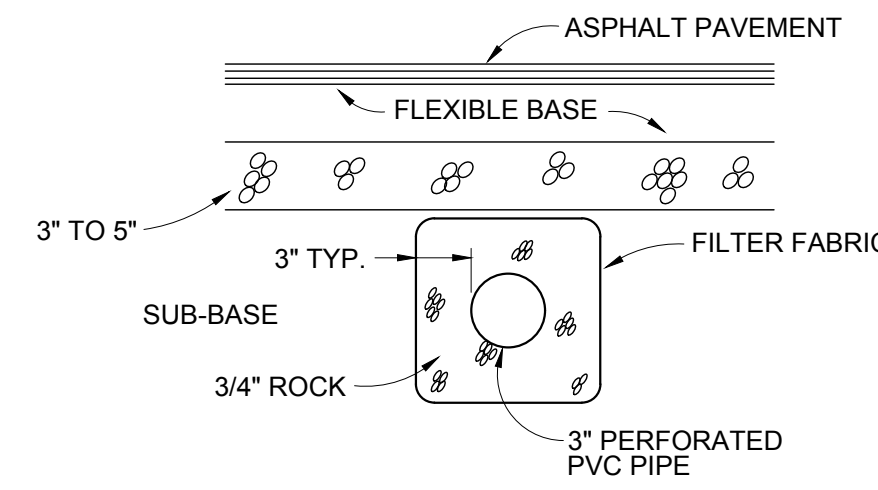
STORM DRAIN "A"

STA. 1+03.50 TO STA. 1+21.6



DETAIL "1"

SCALE: 1" = 5'



FRENCH DRAIN DETAIL

NOT TO SCALE

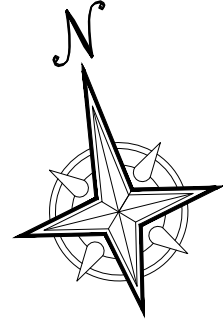
NOTE: PERFORATED PVC TO MATCH PVM'T. SLOPE BUT NO LESS THAN A POSITIVE 1.5% SLOPE.

GENERAL NOTES

1. IF PRECAST INLETS ARE USED, MUD SLAB AND INLET BOLTING WILL BE REQUIRED. (NO SEPARATE PAY ITEM.)
2. CONTRACTOR SHALL USE FLOWABLE FILL, (COSA ITEM 413.3) FOR MUD SLAB FLOWABLE FILL, SHOULD BE 2" TO 6" THICK AND SHOULD EXTEND BENEATH TOTAL LENGTH OF PROPOSED INLETS. (NO SEPARATE PAY ITEM.)
3. PLEASE REFER TO SHEET 507 FOR SPECIFICATIONS RELATED TO INLET BOLTING DETAILS. (NO SEPARATE PAY ITEM.)
4. ALL CONCRETE SHALL BE A MINIMUM CLASS "A" 3600 psi. @ 28 DAYS UNLESS NOTED.

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE
STRUCTURAL DESIGN/ENGINEER/TECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, OR
SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE
ANALYSIS AND DESIGN OF THE PROPOSED TRENCH EXCAVATION AND SHALL
IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS,
PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE
CONTRACT AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR
SAFETY CONSULTANT'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS,
PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE
TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA
STANDARD 1926.650 AND 1926.651 AND CONTRACTOR'S INDEPENDENTLY
RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA
STANDARD 1926.650 AND 1926.651. INDIVIDUALS WORKING
IN AND AROUND TRENCH EXCAVATION



0 20' 40'

1" = 20'

LEGEND

PROPOSED FINISHED CONTOUR
 EXISTING CONTOUR

	PLAT REFERENCE
④	NOTTING HILL UNIT 4 PLAT NO 2020-209 (CONCURRENT DEVELOPMENT)
⑥	NOTTING HILL UNIT 6 (VOL. 20002, PGS. 520-522, D.P.R.)
⑦	NOTTING HILL UNIT 7 (VOL. 20001, PGS. 1889, D.P.R.)

NOTE:

CONTRACTOR TO ENSURE POSITIVE DRAINAGE AT UPSTREAM & DOWNSTREAM ENDS OF DRAINS AND THAT NO PONDING WILL OCCUR.

DESIGNED BY:	DVB.
DRAWN BY:	DVB.
DATE:	10/2021
JOB NO.:	E0583607

CIVIL ENGINEERING CONSULTANTS
d/b/a. DON DURDEN, INC.
11550 IH 10 WEST, SUITE 395
SAN ANTONIO, TEXAS 78230-1037
TEL: (210) 641-9999
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REGISTRATION #F-2214 / #10041000



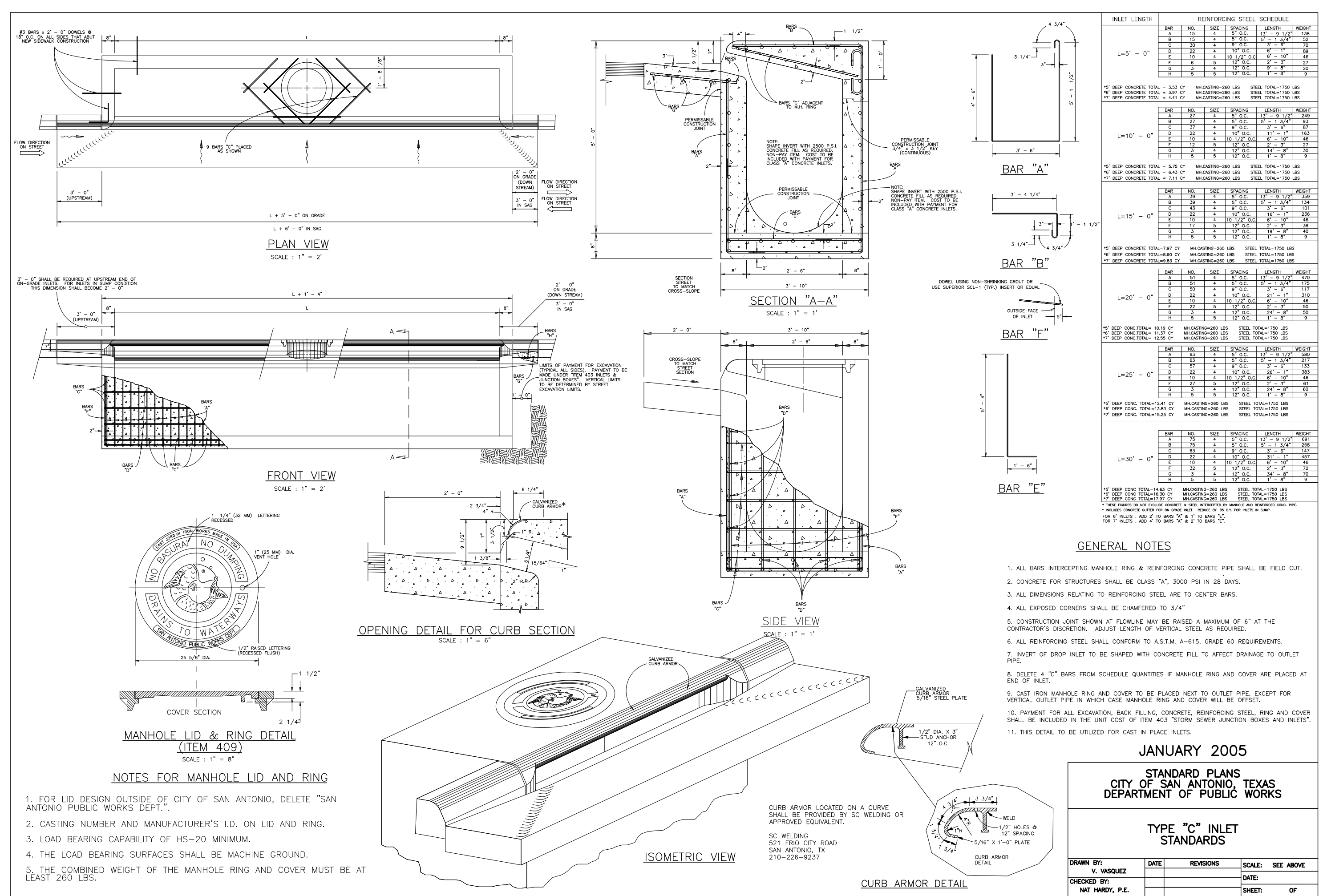
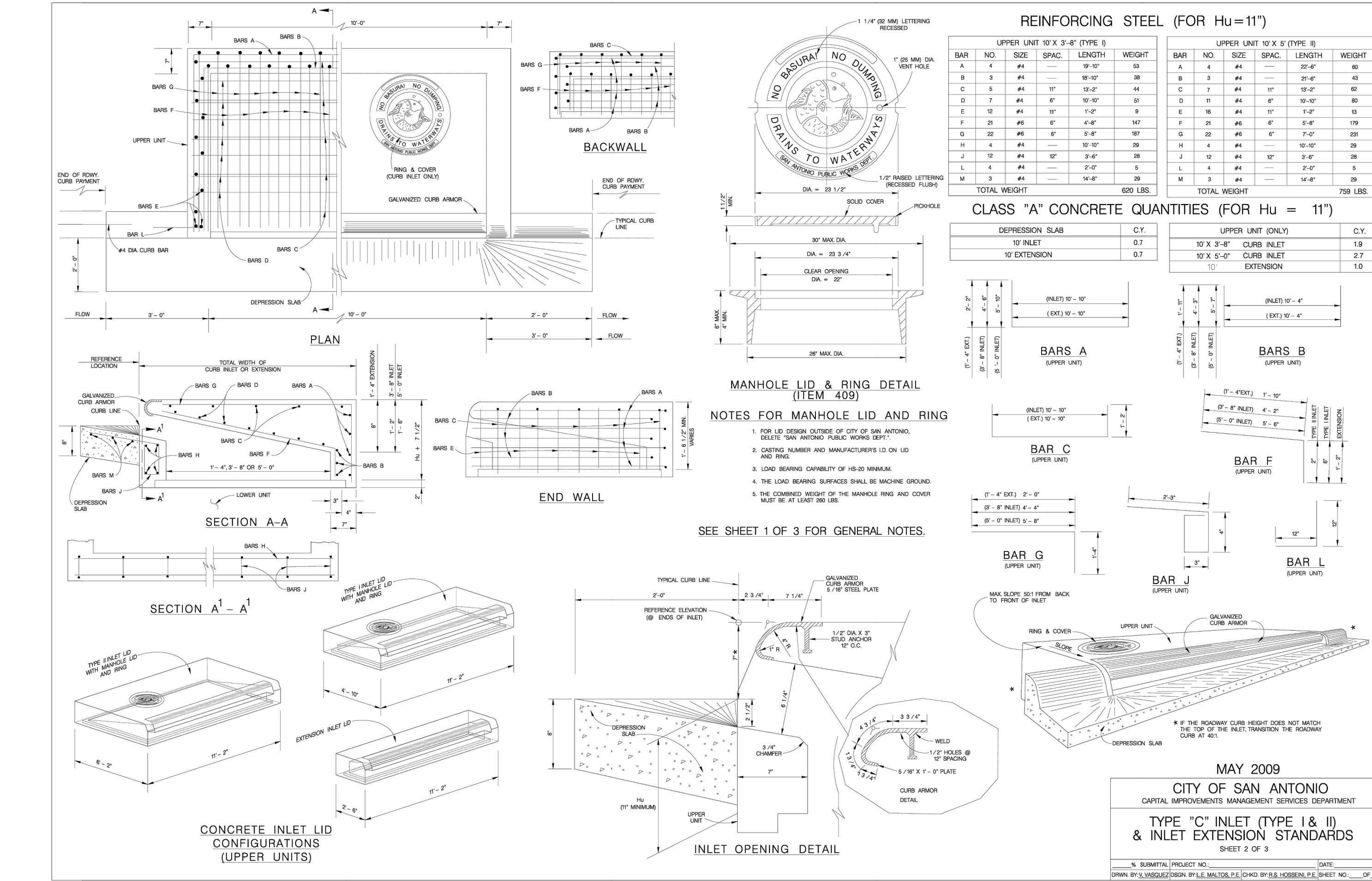
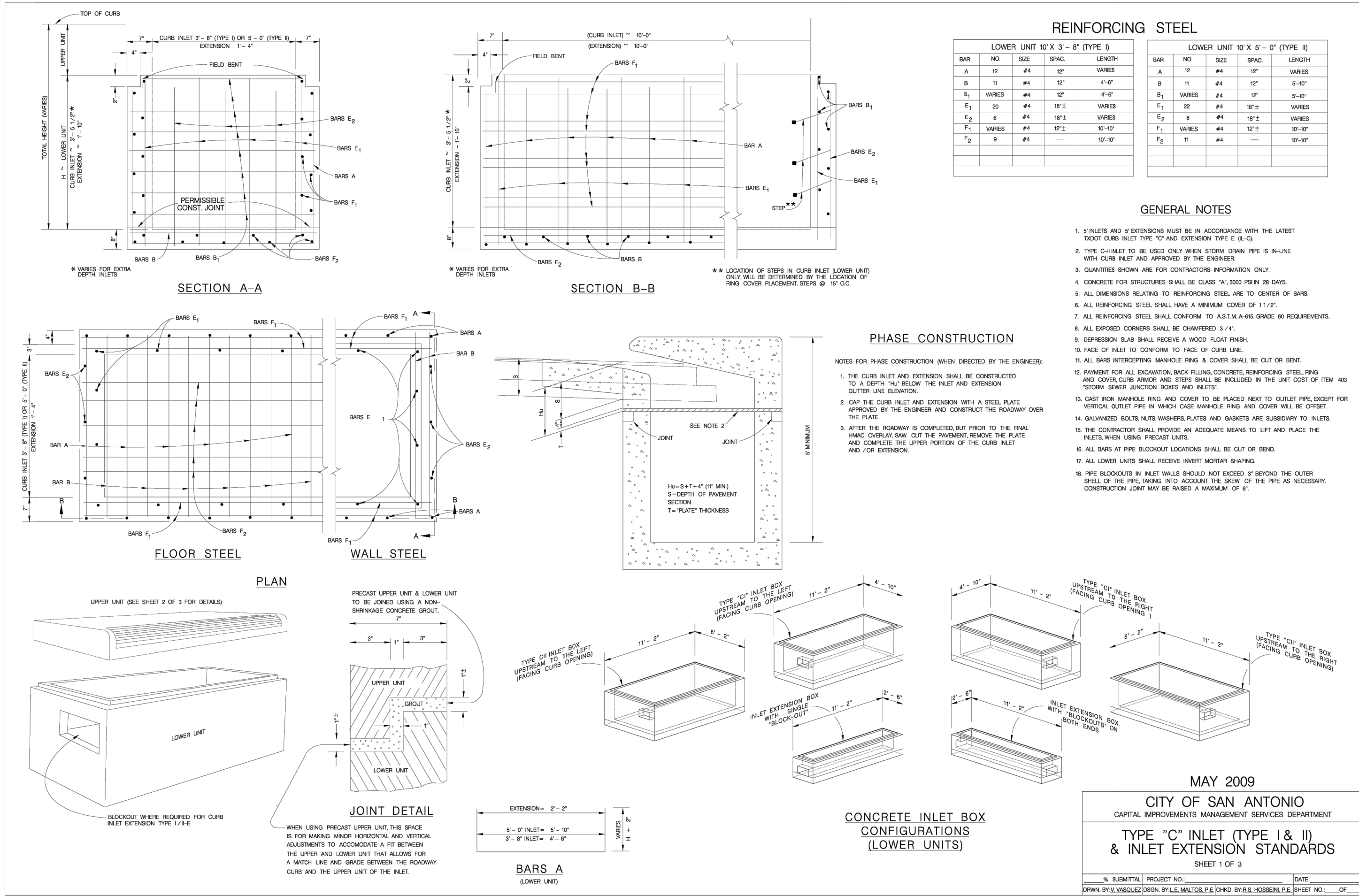
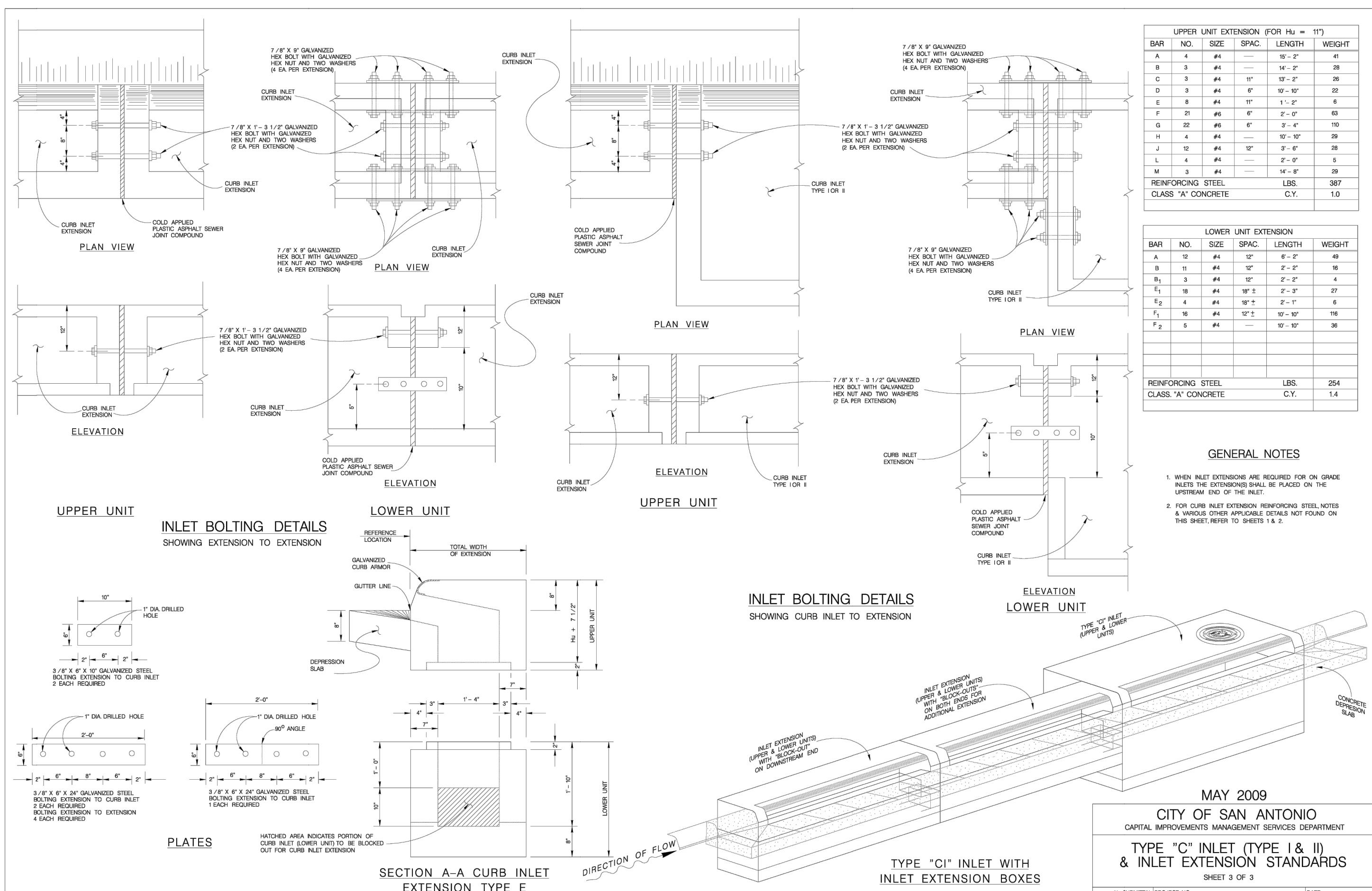
FOR BIDDING
PURPOSES ONLY
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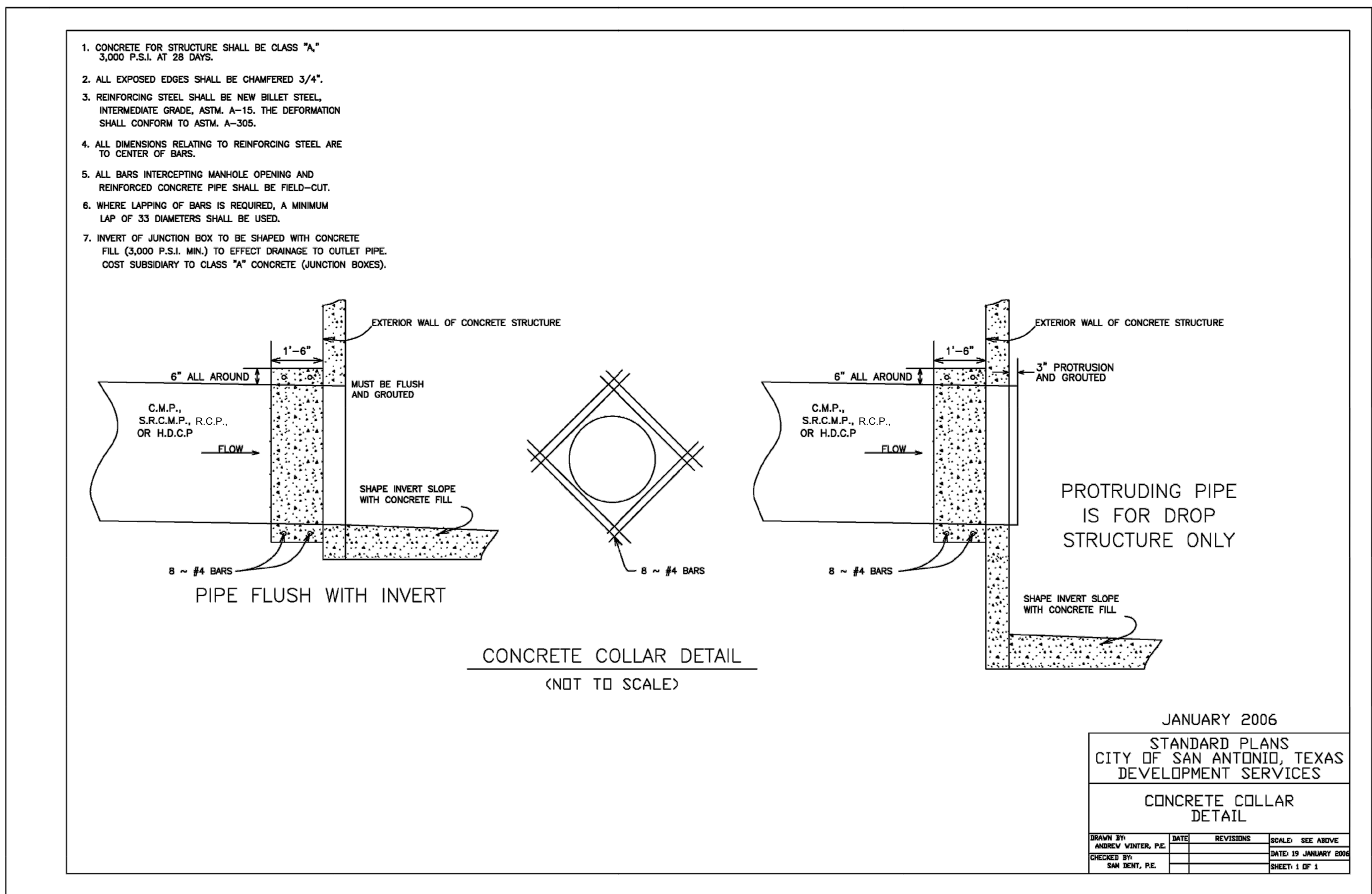
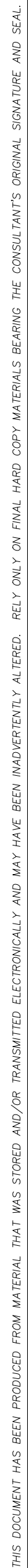
[illegible]

NOTTING HILL SUBDIVISION
UNIT 5
STORM DRAIN A
PLAN & PROFILE

SHEET NO.

506





LOCAL A PRIMARY PAVEMENT DESIGN

PAVEMENT DESIGN WAS PREPARED BY INTEC

PAVEMENT STRUCTURE (DESIGN CBR=2.0)	STR. COEF.	STR. NO.
2" HOT MIX ASPHALT TYPE D	0.44	0.88
13" FLEXIBLE BASE (TYPE B, GRADE 2)	0.14	1.82
3"x5" ROCK SUBGRADE (6" DEPTH) *	0.08	0.48
	TOTAL	3.18

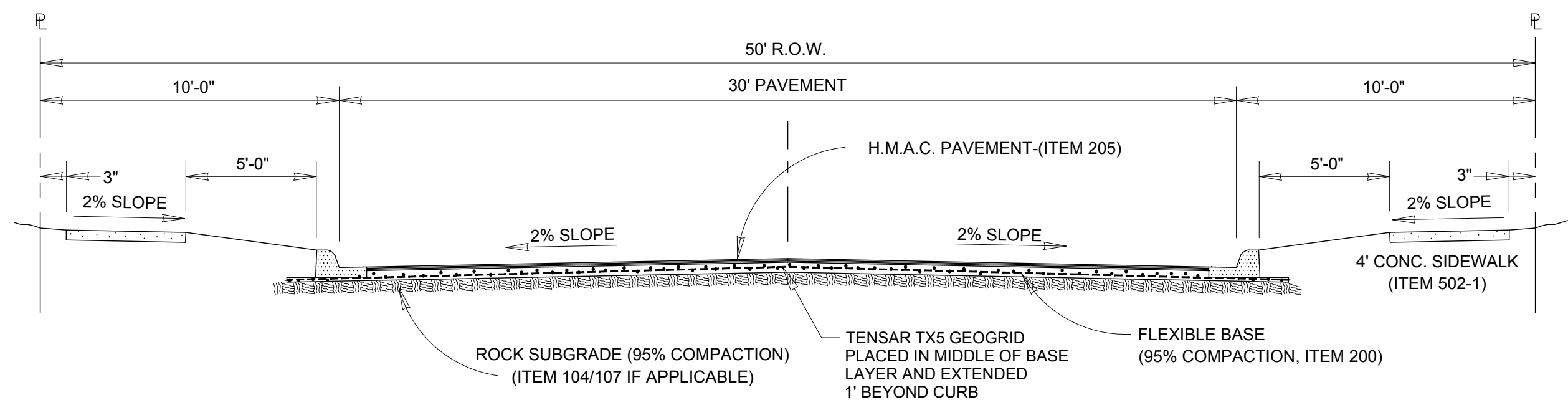
AUGGIE AVE	STA. 1+00.00	TO	9+20.31
CHILI BOWL ST.	STA. 16+23.98	TO	22+02.83
GILLY PARK	STA. 16+23.98	TO	22+08.98
PORTOBELLO WAY	STA. 1+00.00	TO	7+25.18
* 3"x5" ROCK SUBGRADE SHALL BE WRAPPED IN MIRAFI 180N FILTER FABRIC			

LOCAL B PRIMARY PAVEMENT DESIGN

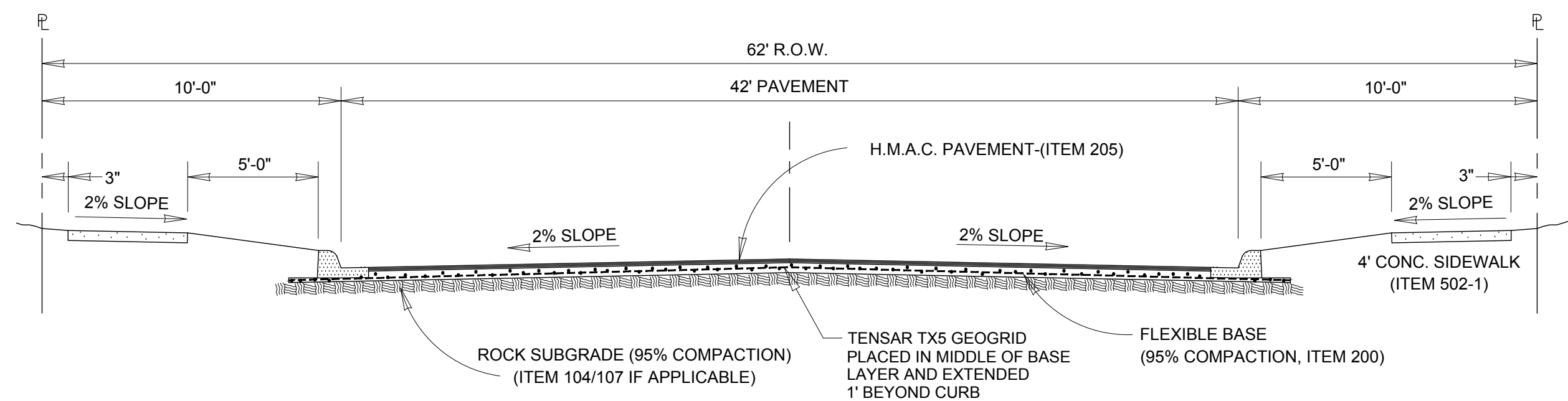
PAVEMENT DESIGN WAS PREPARED BY INTEC

PAVEMENT STRUCTURE (DESIGN CBR=2.0)	STR. COEF.	STR. NO.
3" HOT MIX ASPHALT TYPE D	0.44	1.32
16.75" FLEXIBLE BASE (TYPE B, GRADE 2)	0.14	2.34
3"x5" ROCK SUBGRADE (6" DEPTH) *	0.08	0.48
	TOTAL	4.14

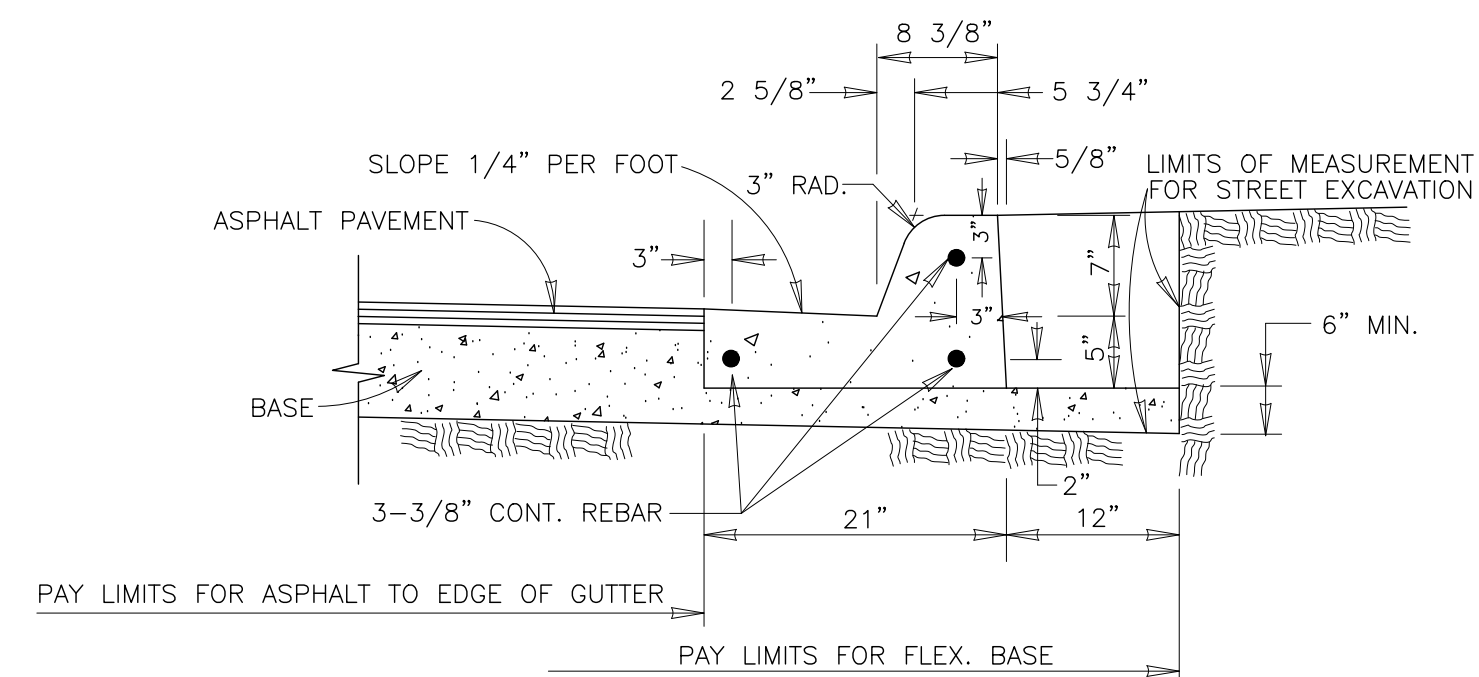
GRAND WESTERN STA. 31+56.10 TO 33+56.24
* 3"x5" ROCK SUBGRADE SHALL BE WRAPPED IN MIRAFI 180N FILTER FABRIC



TYPICAL LOCAL "A" STREET SECTION
NOT TO SCALE

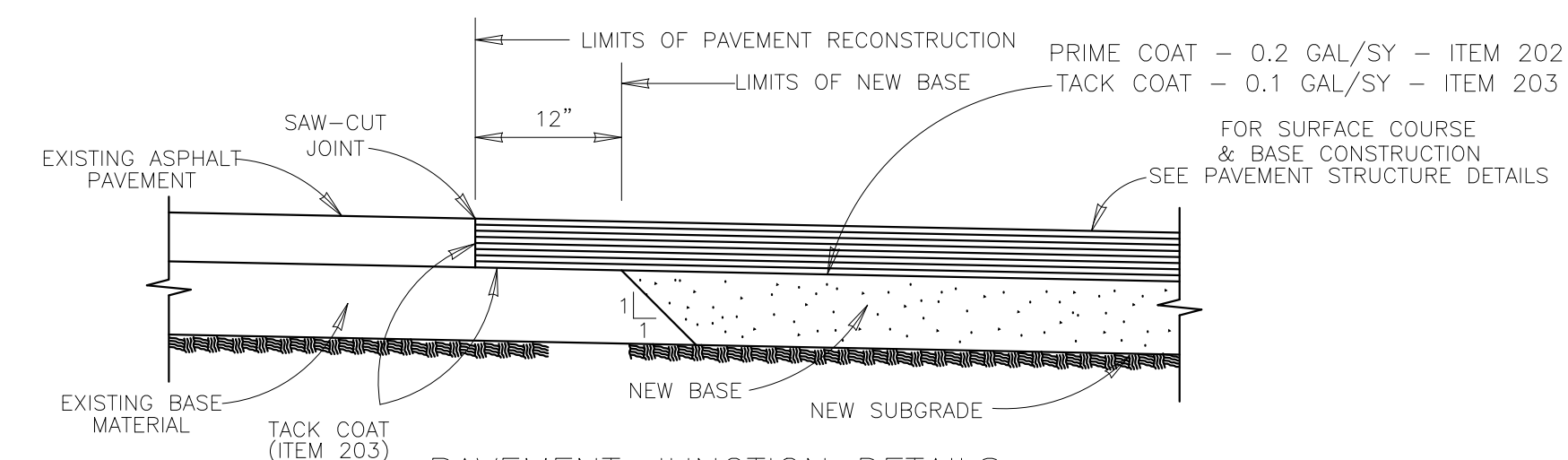


TYPICAL LOCAL "B" STREET SECTION
NOT TO SCALE

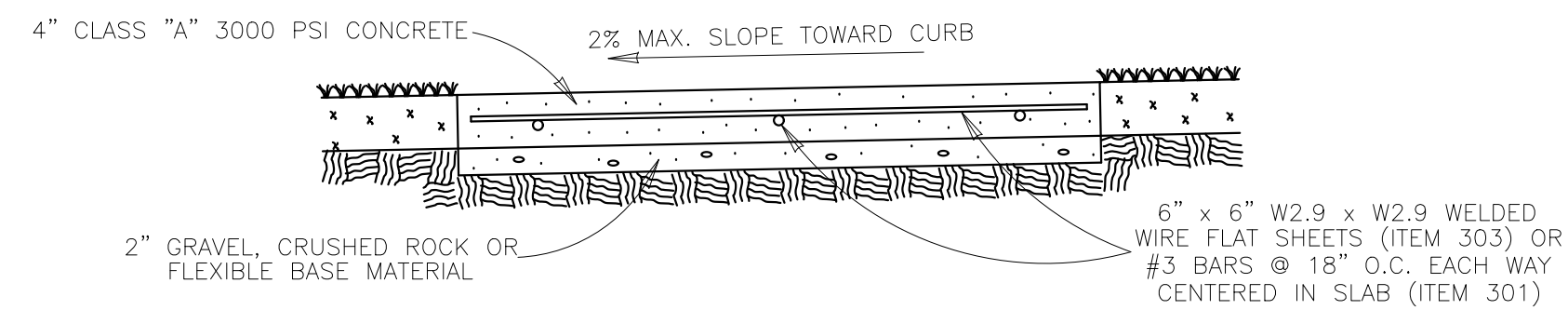


TYPICAL CURB & GUTTER DETAIL

NOT TO SCALE
CLASS "A" 3000 PSI CONCRETE

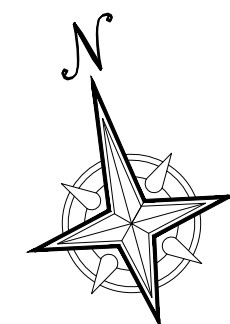
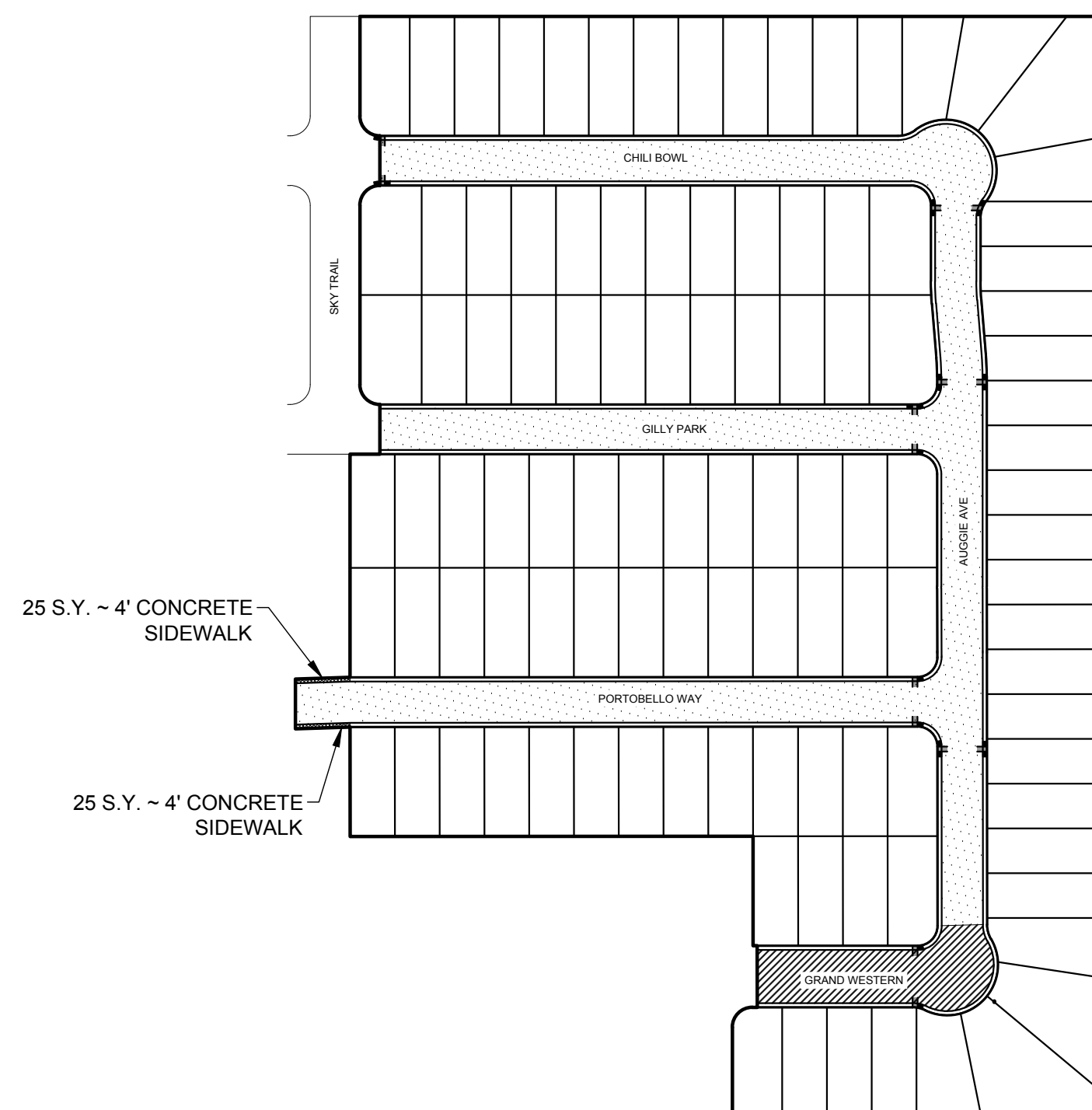


PAVEMENT JUNCTION DETAILS
NOT TO SCALE



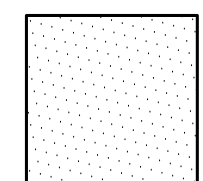
CONCRETE SIDEWALK SECTION
ITEM 502.1

DEVELOPER RESPONSIBLE SIDEWALK & STREET CLASSIFICATION DETAIL

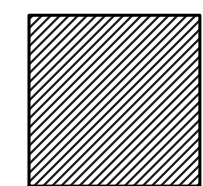


SCALE 1" = 100'

LEGEND



LOCAL "A"



LOCAL "B"

DESIGNED BY: D.V.B.

DRAWN BY: D.V.B.

DATE: 10/2021

JOB NO.: E0583607

CIVIL ENGINEERING CONSULTANTS
db a. DON DURDEN, INC.
11550 IH 10 WEST, SUITE 395
SAN ANTONIO, TEXAS 78230-1037
TEL: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #F-2214 / #10041000



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[illegible]

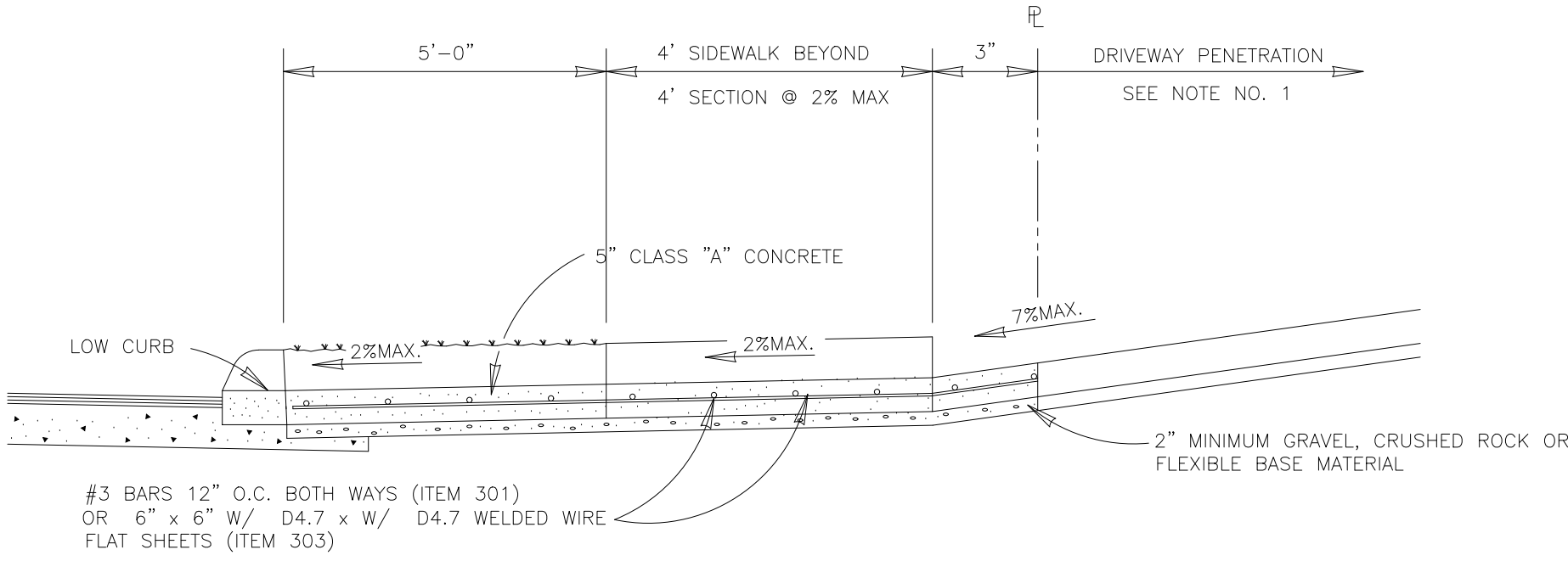
NOTTING HILL SUBDIVISION
UNIT 5
STREET DETAILS

SHEET NO.

509

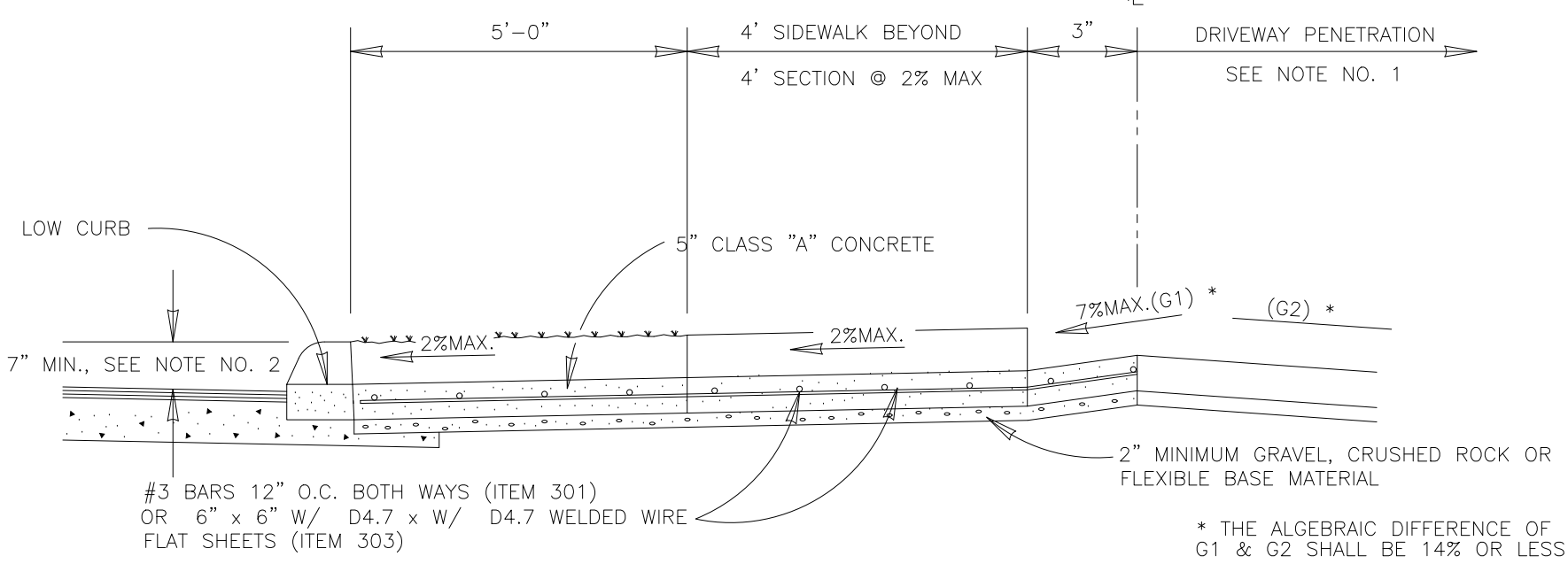
CONCRETE DRIVEWAY NOTES

1. DRIVEWAY LENGTH AND LOCATION OF SIDEWALK MAY VARY. REFER TO STREET DETAILS.
2. 7" MINIMUM HEIGHT ABOVE PAVEMENT SHOULD OCCUR AT THE PROPERTY LINE.
3. FOR LOCATION OF THE PROPOSED SIDEWALK SEE STREET PLANS.
4. DUMMY JOINTS PARALLEL TO THE CURB SHALL BE PLACED WHERE THE SIDEWALK MEETS THE DRIVEWAY. DUMMY JOINTS PERPENDICULAR TO THE CURB, AND WITHIN THE BOUNDARIES OF THE PARALLEL DUMMY JOINTS SHALL BE PLACED AT INTERVALS EQUAL TO THE WIDTH OF THE SIDEWALK.



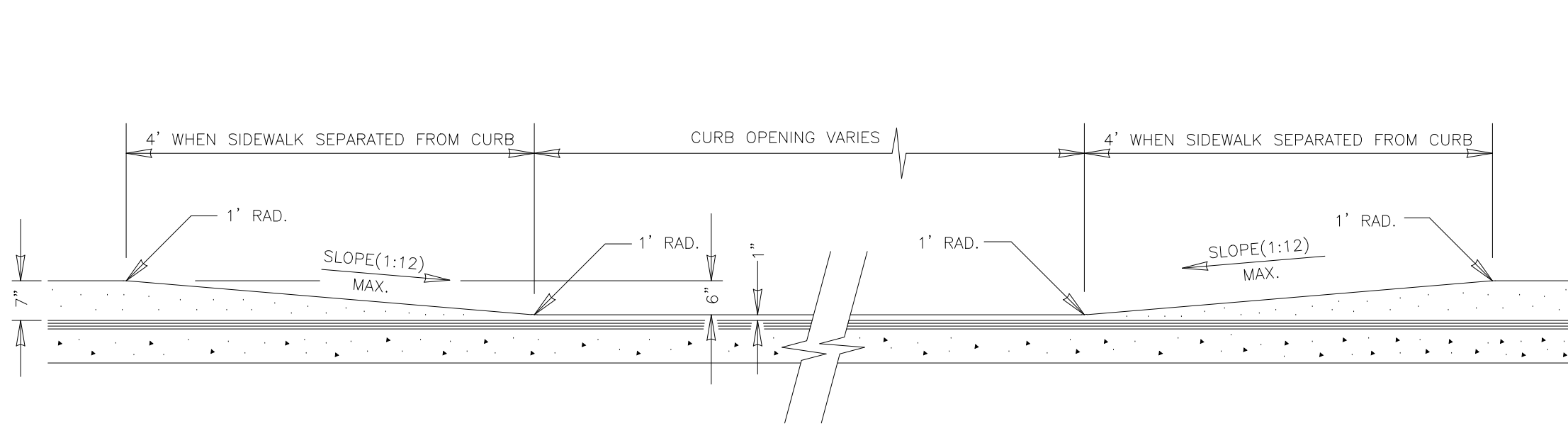
TYPICAL RESIDENTIAL DRIVEWAY SECTION

ITEM 502-2 WITH SIDEWALK SEPARATED FROM CURB

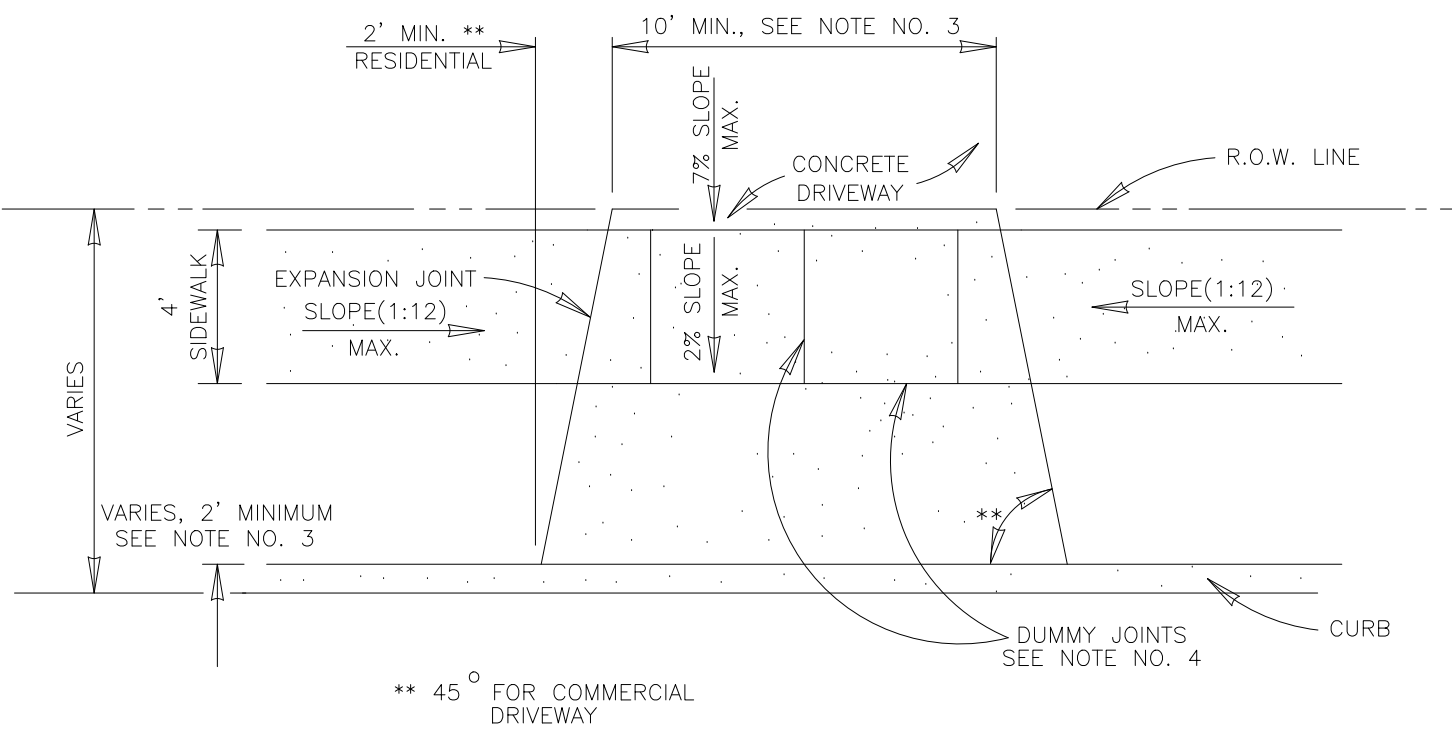


TYPICAL RESIDENTIAL DRIVEWAY SECTION

WHERE PROPERTY IS LOWER THAN STREET
ITEM 502-2 WITH SIDEWALK SEPARATED FROM CURB

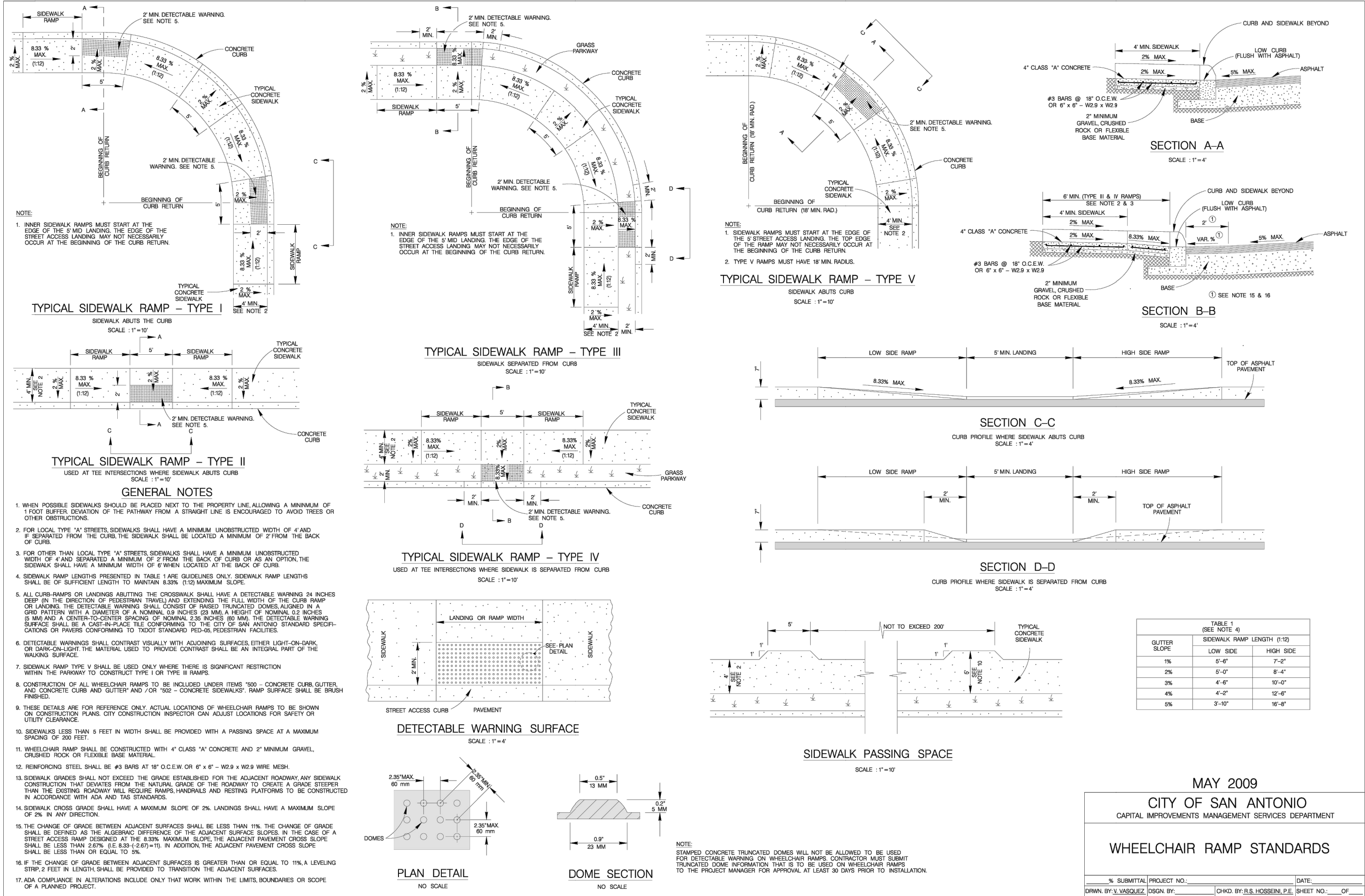


ELEVATION VIEW OF DRIVEWAY @ CURB



TYPICAL DRIVEWAY PLAN VIEW

WITH SIDEWALK SEPARATED FROM CURB



1. WHEN POSSIBLE SIDEWALKS SHOULD BE PLACED NEXT TO THE PROPERTY LINE, ALLOWING A MINIMUM OF 1 FOOT BUFFER. DEVIATION OF THE PATHWAY FROM A STRAIGHT LINE IS ENCOURAGED TO AVOID TREES OR OTHER OBSTRUCTIONS.
2. SIDEWALK RAMP LENGTHS SHALL BE OF SUFFICIENT LENGTH TO MAINTAIN 8.33% (1:12) MAXIMUM SLOPE FOR A MAXIMUM RISE OF 6".
3. ALL CURB-RAMPS OR LANDINGS ABUTTING THE CROSSWALK SHALL HAVE A DETECTABLE WARNING 24-INCHES DEEP (IN THE DIRECTION OF PEDESTRIAN TRAVEL) AND EXTENDING THE FULL WIDTH OF THE CURB RAMP OR LANDING. THE DETECTABLE WARNING SHALL CONSIST OF RAISED TRUNCATED DOMES, ALIGNED IN A GRID PATTERN WITH A DIAMETER OF A NOMINAL 0.9 INCHES (23 MM), A HEIGHT OF NOMINAL 0.2 INCHES (5 MM) AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCHES (60 MM). THE DETECTABLE WARNING SURFACE SHALL BE PAVERS CONFORMING TO TXDOT STANDARD PED-05, PEDESTRIAN FACILITIES.
4. DETECTABLE WARNINGS SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON- DARK, OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE.
5. CONSTRUCTION OF ALL WHEELCHAIR RAMPS TO BE INCLUDED UNDER ITEMS "500 - CONCRETE CURB, GUTTER, AND CONCRETE CURB AND GUTTER" AND / OR "502 - CONCRETE SIDEWALKS". RAMP SURFACE SHALL BE BRUSH FINISHED.
6. THESE DETAILS ARE FOR REFERENCE ONLY. ACTUAL LOCATIONS OF WHEELCHAIR RAMPS TO BE SHOWN ON CONSTRUCTION PLANS. CITY CONSTRUCTION INSPECTOR CAN ADJUST LOCATIONS FOR SAFETY OR UTILITY CLEARANCE.
7. WHEELCHAIR RAMP SHALL BE CONSTRUCTED WITH 4" CLASS "A" CONCRETE AND 2" MINIMUM GRAVEL, CRUSHED ROCK OR FLEXIBLE BASE MATERIAL.
8. REINFORCING STEEL SHALL BE #3 BARS AT 18" O.C.E.W. OR 6" x 6" - W2.9 x W2.9 WIRE MESH.
9. SIDEWALK CROSS GRADE SHALL HAVE A MAXIMUM SLOPE OF 2%. LANDINGS SHALL HAVE A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.

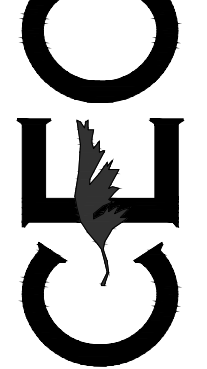
DETECTABLE WARNING MATERIAL

1. CURB RAMPS MUST CONTAIN A DETECTABLE WARNING SURFACE THAT DOES NOT INCLUDE PAVERS AND SHALL BE PREFABRICATED DETECTABLE WARNING PANEL WHICH CONSISTS OF RAISED TRUNCATED DOMES COMPLYING WITH SECTION 705 OF THE T&S. THE SURFACE MUST CONTRAST VISUALLY WITH ADJOINING SURFACES, INCLUDING SIDE FLARES. FURNISH AND INSTALL AN APPROVED DARK BROWN OR DARK RED DETECTABLE WARNING SURFACE MATERIAL ADJACENT TO UNCLOURED CONCRETE, UNLESS SPECIFIED ELSEWHERE IN THE PLANS.
2. DETECTABLE WARNING MATERIALS MUST MEET TXDOT DEPARTMENTAL MATERIALS SPECIFICATION DMS 4350 AND BE LISTED ON THE MATERIAL PRODUCER LIST. INSTALL PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. DETECTABLE WARNING SURFACES MUST BE SLIP RESISTANT AND NOT ALLOW WATER TO ACCUMULATE.
4. DETECTABLE WARNING SURFACES SHALL BE A MINIMUM OF 24" IN DEPTH IN THE DIRECTION OF PEDESTRIAN TRAVEL, AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR LANDING WHERE THE PEDESTRIAN ACCESS ROUTE ENTERS THE STREET.
5. DETECTABLE WARNING SURFACES SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS AT THE BACK OF CURB. ALIGN THE ROWS OF DOMES TO BE PERPENDICULAR TO THE GRADE BREAK BETWEEN THE RAMP RUN AND THE STREET. DETECTABLE WARNING SURFACES MAY BE CURVED ALONG THE CORNER RADII.
6. SHADED AREAS ON SHEET 1 OF 4 INDICATE THE APPROXIMATE LOCATION FOR THE DETECTABLE WARNING SURFACE FOR EACH CURB RAMP TYPE.

PLAT NO. 2021-224

DESIGNED BY: D.Y.B.
DRAWN BY: D.Y.B.
DATE: 10/2021
JOB NO.: E0583907

CIVIL ENGINEERING CONSULTANTS
d.b. DON DURDEN, INC.
11550 HILTON WEST SUITE 335
SAN ANTONIO, TEXAS 78230-1037
TEL: (210) 641-9969
FAX: (210) 641-6440
REGISTRATION #F-2214 / #10041000



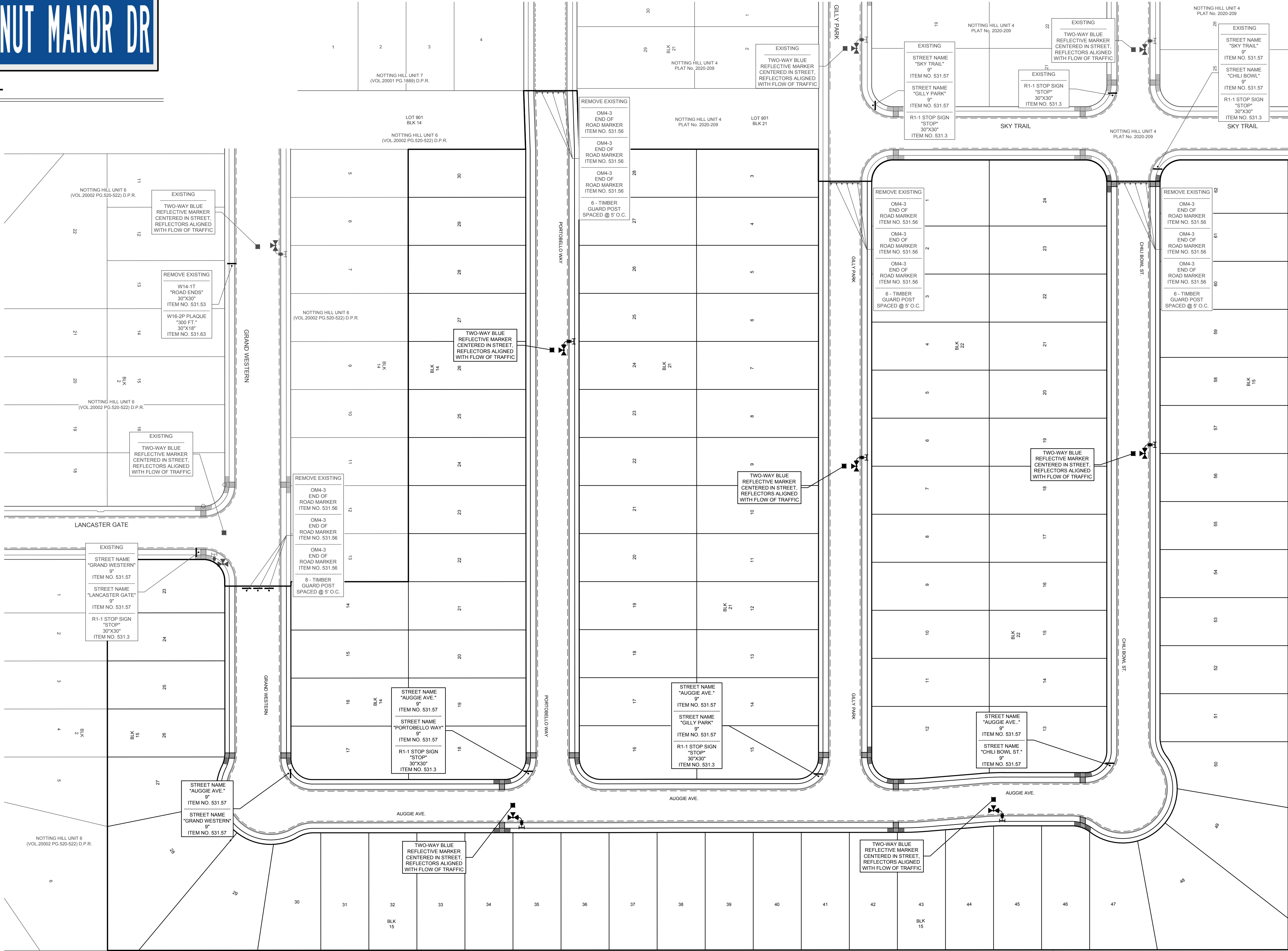
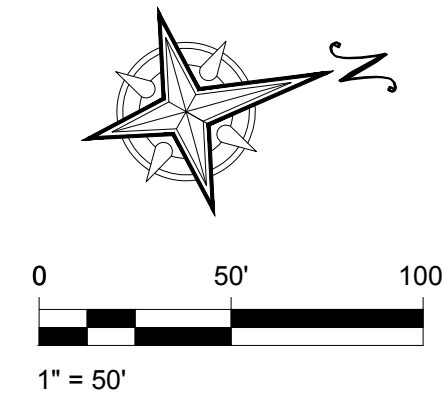
FOR BIDDING
PURPOSES ONLY
NOT FOR CONSTRUCTION

MAY 2009			
CITY OF SAN ANTONIO			
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT			
WHEELCHAIR RAMP STANDARDS			
% SUBMITTAL PROJECT NO.	DATE		
DRAWN BY: J. VASQUEZ, CHECK BY: _____	CHD BY: J. VASQUEZ, D.E. SHEET NO. _____ OF _____		

NOTTING HILL SUBDIVISION
UNIT 5
STREET DETAILS

SHEET NO.
510

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SOSA ALICIA & ERNESTO
6085 WEICHOLO
CONVERSE, TX 78109
PEDRO HERNANDEZ SUBD
BLK 1 LOT 3
(VOL. 6226, PG. 0058) DPR

GARCIA EZEQUIEL D & MARIA I
6803 CELES MEADOW DR
CONVERSE, TX 78109
PEDRO HERNANDEZ SUBD
BLK 1 LOT 4
(VOL. 14379, PG. 2068) DPR

GARCIA EZEQUIEL D & MARIA I
6803 CELES MEADOW DR
CONVERSE, TX 78109
PEDRO HERNANDEZ SUBD
BLK 1 LOT 4
(VOL. 14379, PG. 2068) DPR

TORRES RICARDO M & EMMA J
6209 WEICHOLO
CONVERSE, TX 78109
PEDRO HERNANDEZ SUBD
BLK 1 LOT 5
(VOL. 12057, PG. 1428) DPR

KNOX RIDGE PHASE 1, UNIT 2
(DOC. 20200234752) DPR

CONVERSE REVITALIZATION
INITIATIVE LLC
1202 W BITTERS RD STE 1200
RD01
SAN ANTONIO, TX 78216
(VOL. 18660, PG. 0181) DPR

CONVERSE REVITALIZATION
INITIATIVE LLC
1202 W BITTERS RD STE 1200
BLDG
SAN ANTONIO, TX 78216
(VOL. 18660, PG. 0181) DPR

EXISTING
OM4-3
END OF
ROAD MARKER
ITEM NO. 531.56
OM4-3
END OF
ROAD MARKER
ITEM NO. 531.56
OM4-3
END OF
ROAD MARKER
ITEM NO. 531.56
6 - TIMBER
GUARD POST
SPACED @ 9' O.C.

EXISTING
STREET NAME
"SKY TRAIL"
9"
ITEM NO. 531.57
STREET NAME
"CHILI BOWL"
9"
ITEM NO. 531.57
R-1-1 STOP SIGN
"STOP"
30"x30"
ITEM NO. 531.3
SKY TRAIL

EXISTING
TWO-WAY BLUE
REFLECTIVE MARKER
CENTERED IN STREET,
REFLECTORS ALIGNED
WITH FLOW OF TRAFFIC
EXISTING
R-1-1 STOP SIGN
"STOP"
30"x30"
ITEM NO. 531.3
SKY TRAIL

EXISTING
STREET NAME
"SKY TRAIL"
9"
ITEM NO. 531.57
STREET NAME
"CHILI BOWL"
9"
ITEM NO. 531.57
R-1-1 STOP SIGN
"STOP"
30"x30"
ITEM NO. 531.3
SKY TRAIL

REMOVE EXISTING
OM4-3
END OF
ROAD MARKER
ITEM NO. 531.56
OM4-3
END OF
ROAD MARKER
ITEM NO. 531.56
OM4-3
END OF
ROAD MARKER
ITEM NO. 531.56
6 - TIMBER
GUARD POST
SPACED @ 9' O.C.

REMOVE EXISTING
OM4-3
END OF
ROAD MARKER
ITEM NO. 531.56
OM4-3
END OF
ROAD MARKER
ITEM NO. 531.56
OM4-3
END OF
ROAD MARKER
ITEM NO. 531.56
6 - TIMBER
GUARD POST
SPACED @ 9' O.C.

TWO-WAY BLUE
REFLECTIVE MARKER
CENTERED IN STREET,
REFLECTORS ALIGNED
WITH FLOW OF TRAFFIC

TWO-WAY BLUE
REFLECTIVE MARKER
CENTERED IN STREET,
REFLECTORS ALIGNED
WITH FLOW OF TRAFFIC

STREET NAME
"AUGGIE AVE."
9"
ITEM NO. 531.57
STREET NAME
"CHILLY PARK"
9"
ITEM NO. 531.57
R-1-1 STOP SIGN
"STOP"
30"x30"
ITEM NO. 531.3

STREET NAME
"AUGGIE AVE."
9"
ITEM NO. 531.57
STREET NAME
"PORTOBELLO WAY"
9"
ITEM NO. 531.57
R-1-1 STOP SIGN
"STOP"
30"x30"
ITEM NO. 531.3

REMOVE EXISTING
OM4-3
END OF
ROAD MARKER
ITEM NO. 531.56
OM4-3
END OF
ROAD MARKER
ITEM NO. 531.56
OM4-3
END OF
ROAD MARKER
ITEM NO. 531.56
6 - TIMBER
GUARD POST
SPACED @ 9' O.C.

EXISTING
TWO-WAY BLUE
REFLECTIVE MARKER
CENTERED IN STREET,
REFLECTORS ALIGNED
WITH FLOW OF TRAFFIC

REMOVE EXISTING
W14-11"
"ROAD ENDS"
30"x30"
ITEM NO. 531.53
W16-24" PLAQUE
"300 FT"
30"x18"
ITEM NO. 531.63

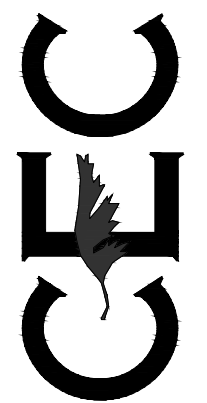
EXISTING
TWO-WAY BLUE
REFLECTIVE MARKER
CENTERED IN STREET,
REFLECTORS ALIGNED
WITH FLOW OF TRAFFIC

EXISTING
STREET NAME
"GRAND WESTERN"
9"
ITEM NO. 531.57
STREET NAME
"LANCASTER GATE"
9"
ITEM NO. 531.57
R-1-1 STOP SIGN
"STOP"
30"x30"
ITEM NO. 531.3

PLAT NO. 2021-224

DESIGNED BY: D.V.B.
DRAWN BY: D.V.B.
DATE: 10/2021
JOB NO.: E0583007

CIVIL ENGINEERING CONSULTANTS
d.b.a. DON DURDEN, INC.
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FAX: (210) 641-9440
REGISTRATION #F-2214 / #10041000



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NOTTING HILL SUBDIVISION
UNIT 5
SIGN PLAN

SHEET NO.
511

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SEDIMENTATION & EROSION CONTROL PLANS for NOTTING HILL UNIT 5

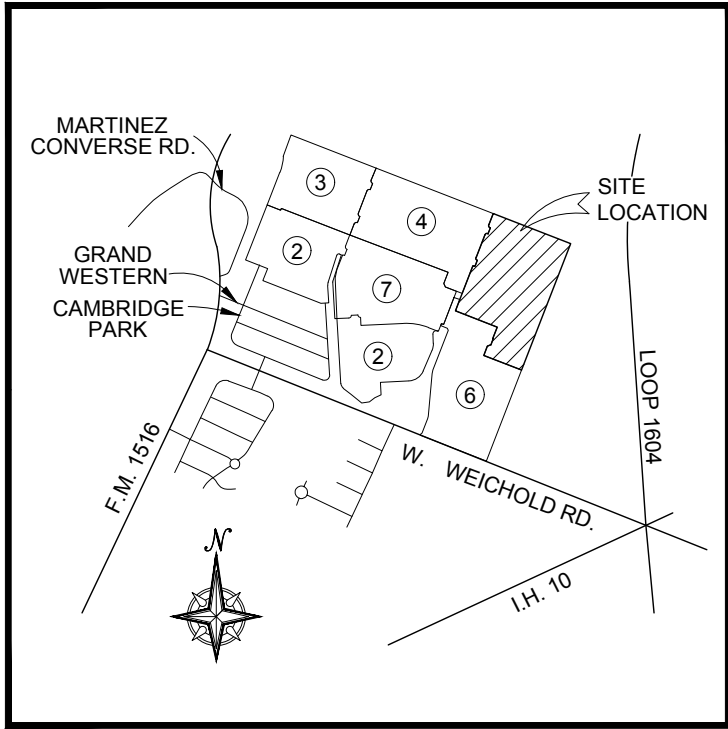
GENERAL NOTES

- All materials and construction procedures within the scope of this project shall, be approved by the City of Converse Public Works and comply with the following as applicable:
A. Reference to Current "San Antonio Water System Utility Specifications"
B. Reference to Current City of San Antonio "Standard Specifications for Public Works Construction"
- The locations and depths of existing utilities, including service laterals, and drainage structures shown on the plans are approximate only. The Contractor shall verify the exact location and depths of underground utilities at least 48 hours prior to construction whether shown on plans or not, and to protect the same during construction. Texas State Wide One Call Locator 1-800-545-6005 City Public Service AT&T Time Warner Valero Energy Co.
- The Contractor shall notify the City prior to the start of each phase of street construction and call for inspections with a minimum of 24 hours notice. City of Converse Public Works Department (210) 658-3453
- Testing will be paid for by Developer, coordinated by Contractor, and witnessed by City.
- Minimum Testing Schedule:

Densities - Subgrade	1 Per 500 Foot Minimum
Densities - Base	1 Per 500 Foot Minimum
Proctors - Subgrade	1 Per Material Per Subdivision
Proctors - Base	1 Per 5,000 C.Y.
Lime Series - Subgrade	1 Per Material Per Subdivision
Concrete - Structures	1 Set (3) Per 50 C.Y.
- Transition washout crown to normal crown in 25'.
- No extra payment shall be allowed for work called for on the plans, but not included in the bid proposal. This incidental work will be required and shall be included in the pay item to which it relates.
- The contractor shall be responsible for restoring to its original or better condition any damage done to existing fences, concrete islands, street paving, curbs, shrubs, bushes or driveways. (No separate pay item).
- Due to federal regulations Title 49, Part 192.171 CPS must maintain access to gas valves at all times. The contractor must protect and work around any gas valves that are in the project area.
- Contractor shall notify the city inspector twenty four (24) hours prior to backfill of any utility trenches to schedule for density test as required.
- All waste material shall become property of the contractor and shall be his sole responsibility to dispose of this material off the limits of the project. No waste material shall be placed in existing lows that will block or alter flow limits of existing artificial or natural drainage.
- The contractor shall not place any waste material in the 100-year flood plain without first obtaining an approved Flood Plain Development Permit.
- The contractor shall maintain all adjoining streets and traveled routes free from spilled and/or tracked construction materials and/or debris.
- It is the contractor's responsibility to see that all signs and barricades are properly installed and maintained. All locations and distances will be decided upon in the field by the contractor, using the "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". The City's construction inspector will only be responsible to inspect barricades and signs. If, in the opinion of the construction inspector, the barricades and signs do not conform to established standards or are incorrectly placed or are insufficient in quantity to protect the general public, the inspector shall have the option to stop operations until such time as the conditions are corrected.

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION, SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.



LOCATION MAP
NOT TO SCALE

SHEET INDEX

SHEET	TITLE
600	SEDIMENTATION & EROSION CONTROL PLAN COVER
601	OVERALL SEDIMENTATION & EROSION CONTROL PLAN
602	SEDIMENTATION & EROSION CONTROL NARRATIVE
603	SEDIMENTATION & EROSION CONTROL DETAILS

LEGEND

SCF	TEMPORARY SEDIMENT CONTROL FENCE
RFD	TEMPORARY ROCK FILTER DAM
[Pattern]	TYPE 1 CONSTRUCTION EXIT
[Pattern]	CONCRETE WASHOUT PIT
[Symbol]	GRAVEL FILTER BAGS
[Symbol]	LIMITS OF CONSTRUCTION
[Symbol]	GRADING SLOPE ARROW

TOTAL QUANTITIES

SILT FENCE (EXISTING SILT FENCE TO REMAIN)	0 L.F.
TYPE I CONSTRUCTION EXIT	1 EA.
CONCRETE WASHOUT PIT	1 E.A.
GRAVEL FILTER BAGS	25 L.F.

OWNER/DEVELOPER:
CASTLEROCK COMMUNITIES
2401 FOUNTAIN VIEW DRIVE, SUITE 215
HOUSTON, TEXAS 77057
PHONE: (713) 600-7060



CIVIL ENGINEERING CONSULTANTS
d b a . D O N D U R D E N , I N C .
11550 IH 10 WEST, SUITE 395
SAN ANTONIO, TEXAS 78230-1037
TEL: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #F-2214 / #10041000

PLAT NO. 2021-224

DESIGNED BY:	D.V.B.
DRAWN BY:	D.V.B.
DATE:	10/2021
JOB NO.:	E0563607

CIVIL ENGINEERING CONSULTANTS
d b a . D O N D U R D E N , I N C .
11550 IH 10 WEST, SUITE 395
SAN ANTONIO, TEXAS 78230-1037
TEL: (210) 641-9999
FAX: (210) 641-6440
REGISTRATION #F-2214 / #10041000



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PURPOSES ONLY
NOT FOR CONSTRUCTION

NOTTING HILL SUBDIVISION
UNIT 5
SEDIMENTATION & EROSION
CONTROL PLAN COVER

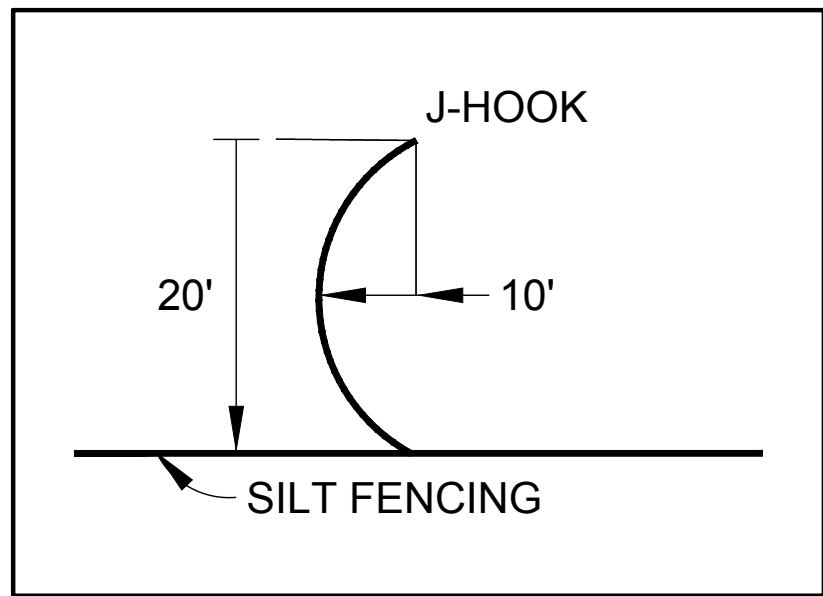
SHEET NO.

600

Date: May 28, 2025, 8:58am User ID: cecuser@cec.com User Path: C:\Users\cecuser\Documents\2021\05\052825\052825_000_Sedimentation & Erosion Control Plan Cover.dwg

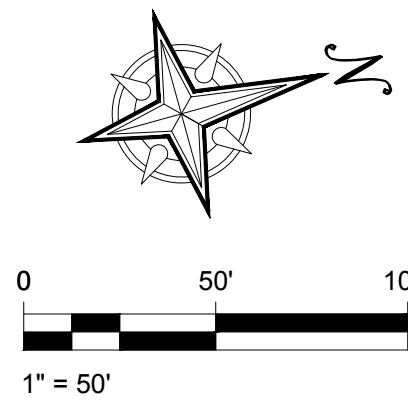
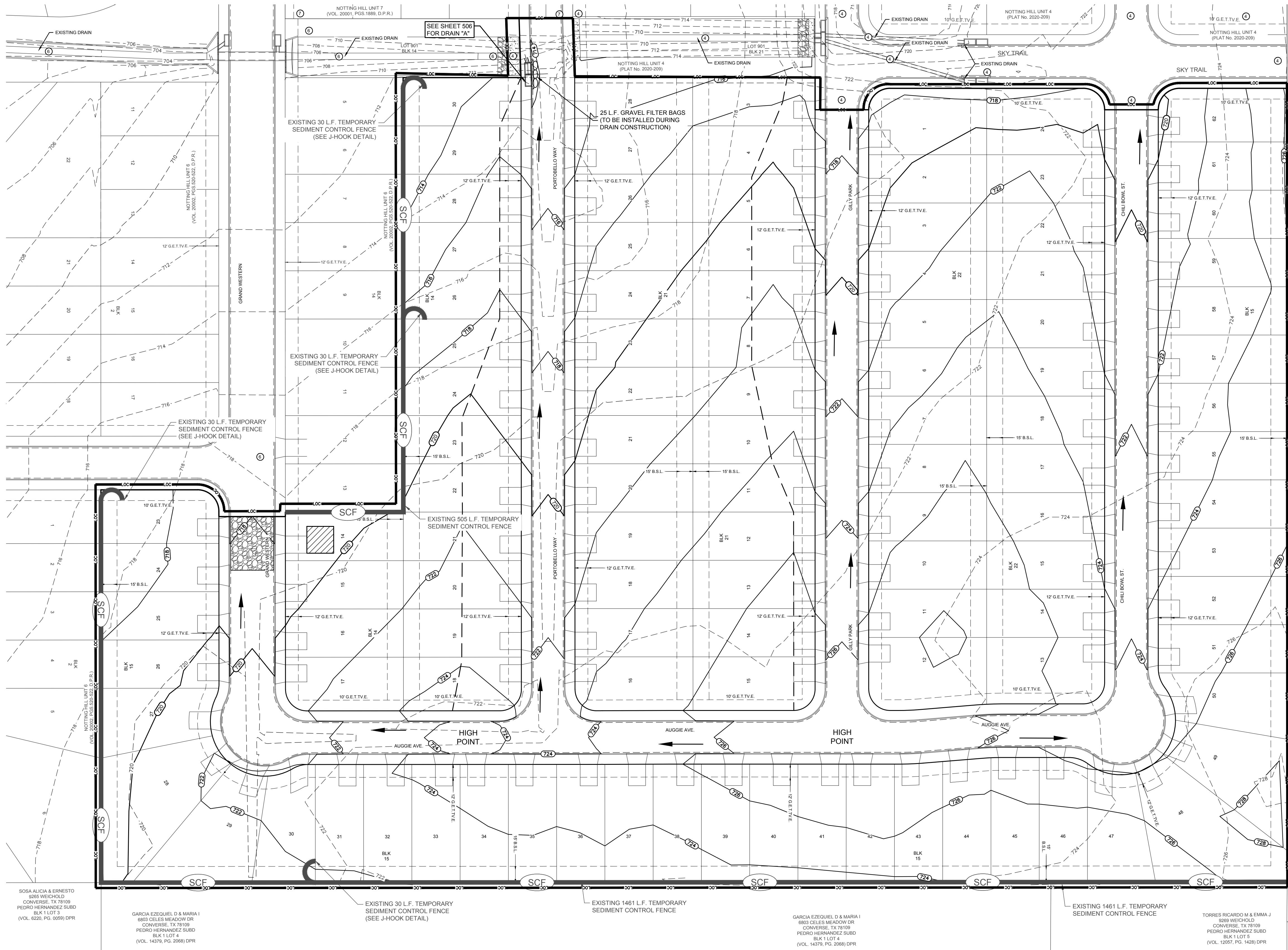
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TRENCH EXCAVATION SAFETY PROTECTION
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR
STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY EQUIPMENT CONSULTANT, IF ANY
SHALL, REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND
THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN
ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY
PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S
IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL
PROVIDE FOR ADEQUATE TRENCH EXCAVATION, SAFETY PROTECTION THAT
COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS.
SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED
EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY
PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE
AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.



J-HOOK DETAIL

SCALE: NTS



PLAT REFERENCE	
①	NOTTING HILL UNIT 4 - PLAT NO. 2020-209 (CONCURRENT DEVELOPMENT)
②	NOTTING HILL UNIT 6 (VOL. 2002, PGS. 520-522, D.P.R.)
③	NOTTING HILL UNIT 7 (VOL. 2001, PGS. 188, D.P.R.)

LEGEND

- SCF TEMPORARY SEDIMENT CONTROL FENCE
- TYPE 1 CONSTRUCTION EXIT
- CONCRETE WASHOUT PIT
- PROPOSED FINISHED CONTOUR
- EXISTING CONTOUR
- LIMITS OF CONSTRUCTION
- GRADING SLOPE ARROW

NOTES:

- DRIVEWAYS SHALL BE LOCATED ON THE HIGH SIDE OF EACH LOT.
- FINISHED FLOOR ELEVATIONS SHALL BE A MINIMUM OF 8" ABOVE FINAL GRADE AFTER PLACEMENT OF TOP SOIL AND SOD.
- FINAL LOT SWALES SHALL BE PLACED WITH HOME CONSTRUCTION.

S.W.P.P.P. GENERAL NOTES

- THE CONTROL MEASURES CONTAINED HEREON (AND AS FURTHER DESCRIBED BY THE STANDARD SPECIFICATIONS) SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE CONSTRUCTION CONTRACT TO ASSURE EFFECTIVE AND CONTINUOUS WATER POLLUTION CONTROL DURING CONSTRUCTION AND POST CONSTRUCTION PERIODS.
- A RAIN GAUGE SHALL BE PROVIDED BY THE CONTRACTOR AND LOCATED AT THE PROJECT SITE, WITHIN 24 HOURS OF A RAINFALL EVENT OF 0.5 INCHES OR MORE (AS MEASURED BY THE PROJECT SITE GAUGE). THE CONTRACTOR AND INSPECTOR WILL INSPECT THE ENTIRE PROJECT TO DETERMINE THE CONDITION OF THE CONTROL MEASURES. SEDIMENT WILL BE REMOVED AND DEVICES REPAIRED AS SOON AS PRACTICABLE BUT NO LATER THAN 7 DAYS AFTER THE SURROUNDING EXPOSED GROUND HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE BEING CAUSED BY REPAIR OPERATIONS.
- THE CONTRACTOR SHALL CLEAN PAVED SURFACES (ADJACENT TO THE CONSTRUCTION AREAS) AS NECESSARY TO REMOVE SEDIMENT WHICH HAS ACCUMULATED ON THE ROADWAY DUE TO STORMWATER FLOWS AND VEHICULAR TRAFFIC THROUGH AND ACROSS THE CONSTRUCTION SITE.
- IN CASE OF FAILURE ON THE PART OF THE CONTRACTOR TO PREVENT AND CONTROL SOIL EROSION, SEDIMENTATION AND WATER POLLUTION WHICH MAY DEGRADE RECEIVING WATERS, THE DEVELOPER/OWNER RESERVES THE RIGHT TO EMPLOY OUTSIDE ASSISTANCE OR USE OTHER FORCES TO PROVIDE THE NECESSARY CORRECTIVE MEASURES. ALL COST (INCLUDING ENGINEERING) COST WILL BE DEVOTED FROM ANY MONIES DUE TO OR TO BECOME DUE TO THE CONTRACTOR.
- UPON COMPLETION OF CONSTRUCTION AND THE INSTALLATION OF PERMANENT EROSION CONTROL METHODS, A FINAL EROSION CONTROL INSPECTION WILL BE PERFORMED AS PART OF ACCEPTANCE OF THE PROJECT BY THE DEVELOPER/OWNER. IN THE EVENT THAT THE PERMANENT EROSION CONTROL IS INADEQUATE DUE TO IMPROPER DESIGN OR INSTALLATION, THE PERMANENT EROSION CONTROL MEASURES MUST BE CORRECTED OR REDESIGNED TO FUNCTION PROPERLY.
- THE NPDES NOTICE OF INTENT (N.O.I.) SHALL BE SIGNED AND SUBMITTED BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO THE CONTRACTOR MOVING ONTO THE SITE.
- THE CONTRACTOR SHALL SUBMIT A SIGNED NOTICE OF TERMINATION (N.O.T.)

NOTTING HILL SUBDIVISION
UNIT 5
OVERALL SEDIMENTATION &
EROSION CONTROL PLAN

SHEET NO.

601

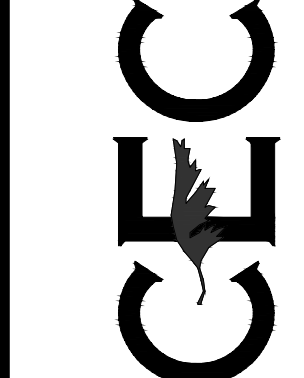
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SAN ANTONIO, TEXAS 78238
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FAX: (210) 641-6440
REGISTRATION #2214 / #10041000



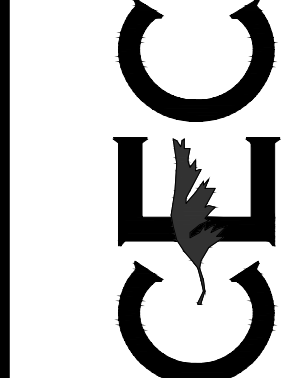
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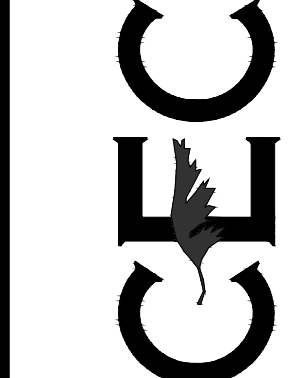
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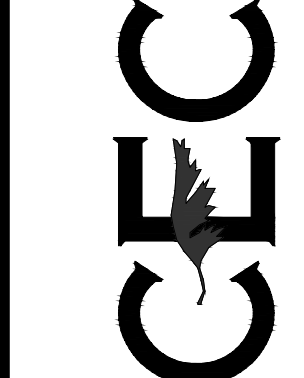
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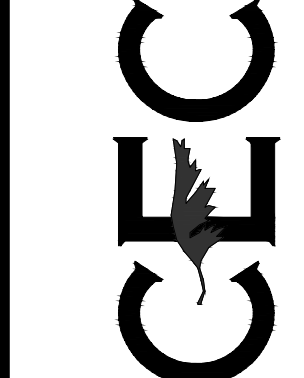
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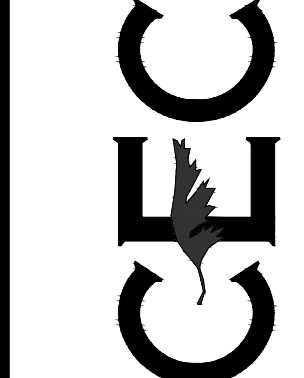
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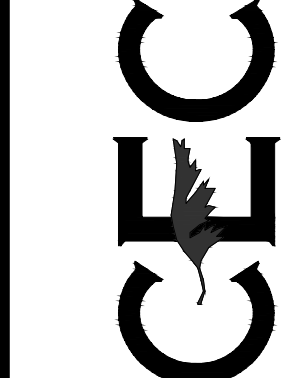
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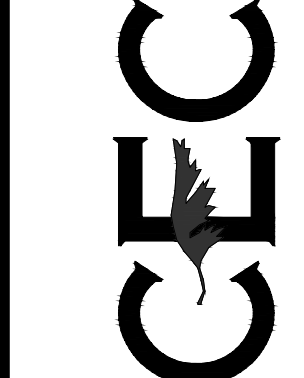
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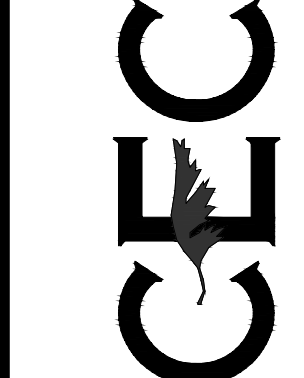
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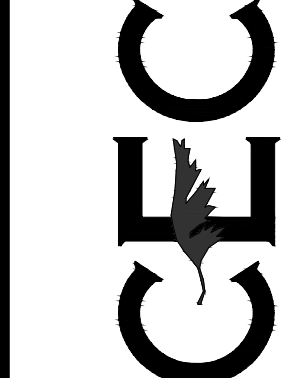
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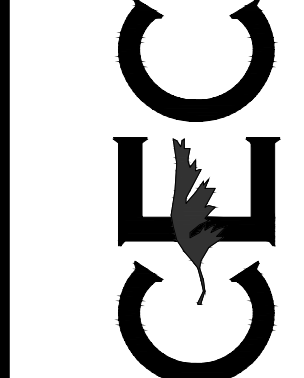
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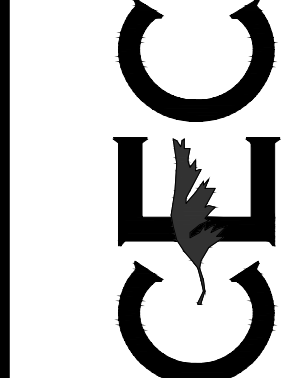
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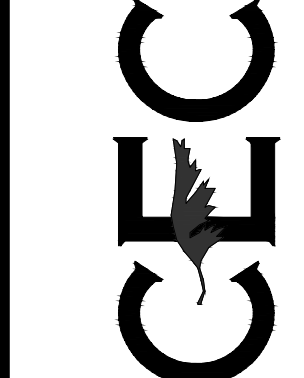
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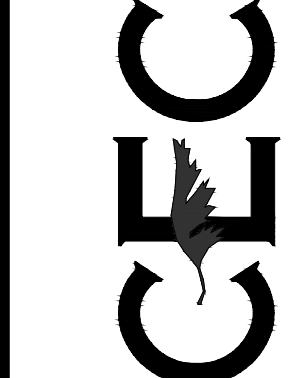
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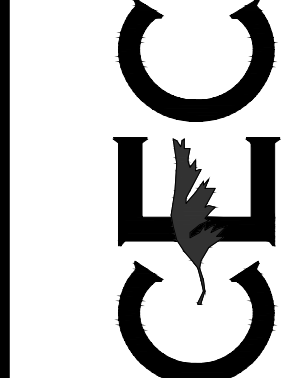
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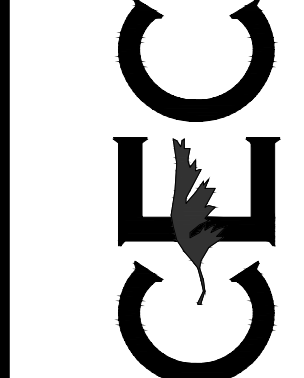
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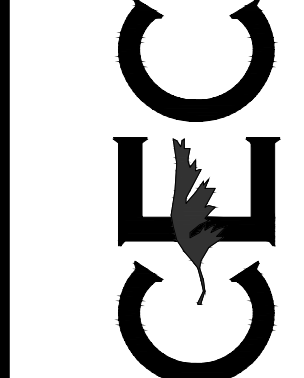
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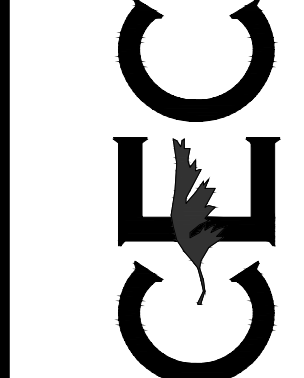
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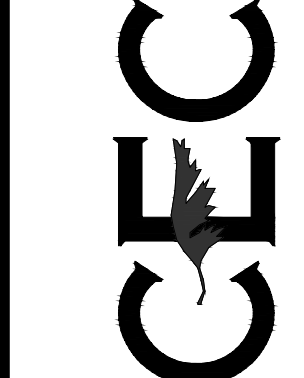
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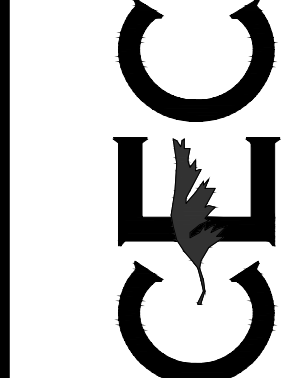
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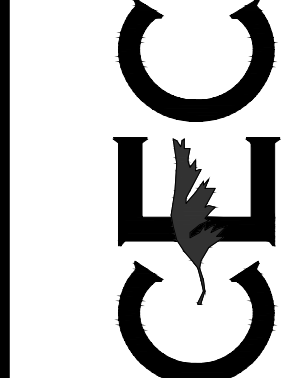
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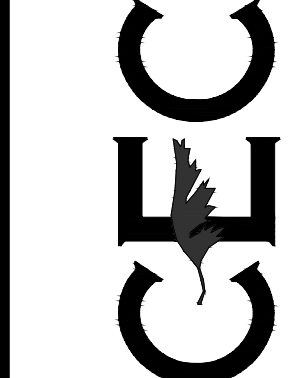
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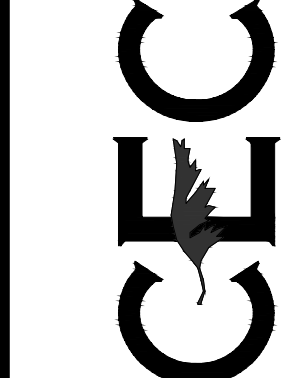
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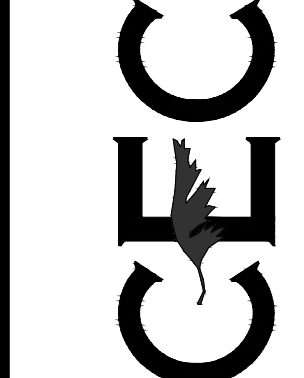
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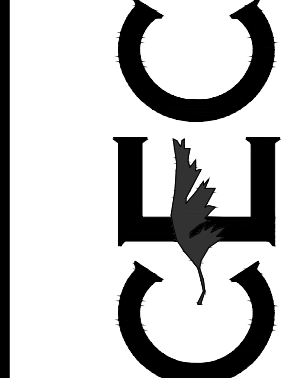
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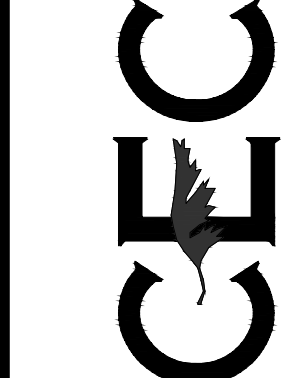
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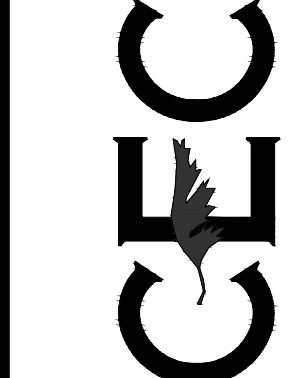
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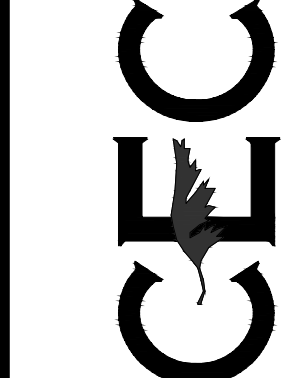
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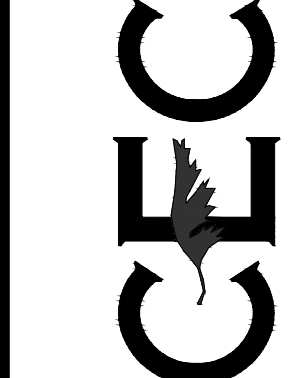
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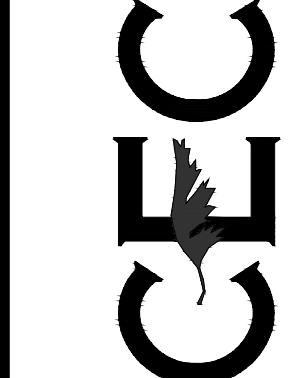
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PROJECT LIMITS: 16.379 phase is located north of the intersection of GRAND WESTERN & LANCASTER GATE

LATITUDE 29°28'19.74"N LONGITUDE 98°18'27.31"W

PROJECT DESCRIPTION: Construction of subdivision improvements including: streets, water lines, sanitary sewer lines and drainage improvements.

MAJOR SOIL DISTURBING ACTIVITIES: Soil disturbing activities will include preparing right-of-way clearing, and grubbing, grading, excavation and embankment for the street, excavation for water, sanitary sewer, storm sewer, and structures. Erosion and sediment controls.

TOTAL PROJECT AREA: 16.379

TOTAL AREA TO BE DISTURBED: 16.379 Acres (100%)

WEIGHTED RUNOFF COEFFICIENT
(PRE-CONSTRUCTION): 0.25

WEIGHTED RUNOFF COEFFICIENT
(POST-CONSTRUCTION): 0.45

EXISTING CONDITION OF SOIL & VEGETATIVE COVER AND % OF EXISTING VEGETATIVE COVER: The existing topsoil is dark brown/ tan clay.

NAME OF RECEIVING WATERS: The storm water will flow into Escondido Creek and ultimately into Martinez Creek.

OTHER EROSION AND SEDIMENT CONTROLS:

MAINTENANCE: All erosion and sediment controls will be maintained in good working order. If a repair is necessary, it will be done at the earliest date possible, but no later than 7 calendar days after the surrounding exposed ground has dried sufficiently to prevent further damage from heavy equipment. The areas adjacent to creeks and drainage ways shall have priority followed by devices protecting storm sewer inlets.

INSPECTION: An inspection will be performed by a designated inspector every week as well as after every half inch or more of rain (as recorded on a non-freezing rain gauge to be located at the Project Site). An inspection and Maintenance Report will be made per each inspection. Based on the inspection results, the controls shall be located at the Project Site). An inspection and Maintenance Report will be made per each revised per the inspection report.

WASTE MATERIALS: All waste materials will be collected and stored in a secured metal dumpster. The dumpster will meet all state and local city solid waste management regulations. All trash and construction debris from the site will be deposited in the dumpster. The dumpster will be emptied as necessary or as required by local regulations and the trash will be hauled to a local dump. No construction waste material will be buried on site.

HAZARDOUS WASTE (INCLUDING SPILL REPORTING): At a minimum, any products in the following categories are considered to be hazardous:
paints, acids for cleaning masonry surfaces, cleaning solvents, asphalt products, chemical additives for soil stabilization or concrete curing compounds and additives. In the
event of a hazardous material spill, the spill coordinator shall be contacted immediately.

SANITARY WASTE: All sanitary waste will be collected from portable units as necessary, or as required by local regulations by a Licensed Sanitary Waste Management Contractor.

OFFSITE VEHICLE TRACKING:

	HAUL ROADS DAMPENED FOR DUST CONTROL
✓	LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN
✓	EXCESS DIRT ON ROAD REMOVED DAILY
✓	STABILIZED CONSTRUCTION ENTRANCE

PERMITS: _____

REMARKS: Disposal areas, stockpiles, and haul roads shall be constructed in a manner that will minimize and control the amount of sediment that may enter receiving waters. Disposal areas shall not be located in any wetland, waterbody or streambed. Construction staging areas and vehicle maintenance areas shall be constructed by the Contractor in a manner to minimize the runoff of pollutants. All waterways shall be cleared as soon as practicable of temporary embankment, temporary bridges, matting, falsework, piling, debris or other obstructions placed during construction operations that are not a part of the finished work.

OWNERS CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE _____ DATE _____

CONTRACTOR'S CERTIFICATION

I certify under penalty of law that I understand the terms and conditions of the general Texas Pollutant Discharge Elimination System (TPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification plan.

SIGNATURE (CONTRACTOR)

DATE _____

REV	DATE	DESCRIPTION
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NOTTING HILL SUBDIVISION
UNIT 5
SEDIMENTATION & EROSION
CONTROL NOTES

SHEET NO.

602

