

PAVING, STORM DRAIN, WATER AND SANITARY SEWER CONSTRUCTION PLANS

for


ST. TERESA OF CALCUTTA CATHOLIC CHURCH

FORT WORTH, TEXAS

ARCHITECT:

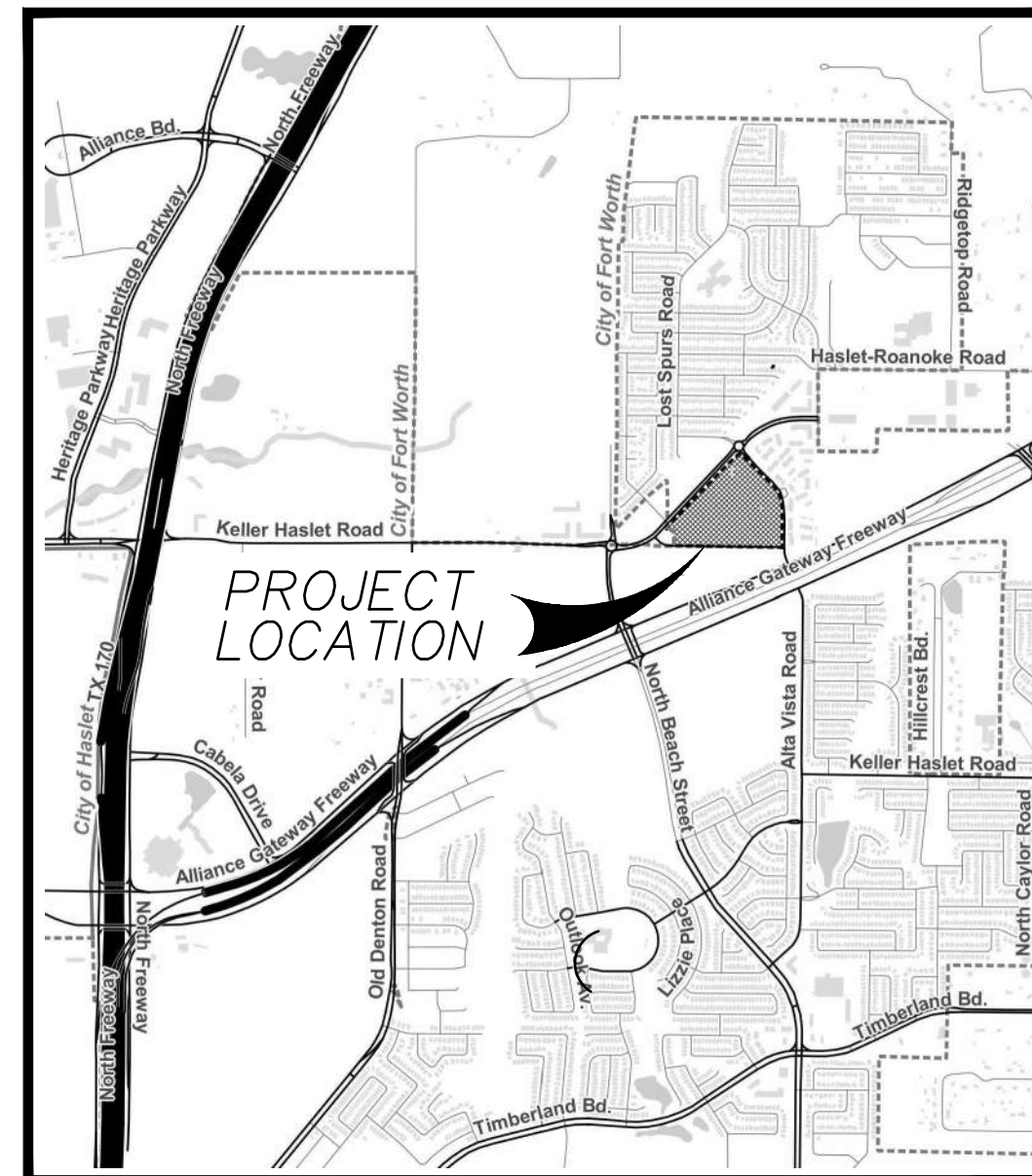
MARTSOLF ARCHITECTURE
 815 WEST BAGGET AVENUE
 FORT WORTH, TEXAS 76104
 EMAIL: SCOTT@MARTSOLFARCH.COM
 CONTACT: SCOTT MARTSOLF, AIA.

PREPARED BY:



mma
 civil engineering surveying landscape architecture planning
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 varruda@mmatexas.com



VICINITY MAP
 NO SCALE

SOURCE BENCHMARK:

CITY OF FORT WORTH MONUMENT #8963 - BRASS DISC STAMPED "8963"
 ON THE SOUTH CURB OF WESTPORT PARKWAY 660 FEET WEST OF THE
 WEST ENTRANCE RAMP TO I-35-W AND 160 FEET EAST OF THE
 CENTERLINE OF THE HERITAGE PARKWAY IN THE CENTER OF A 10 FOOT
 RECESSED INLET 1 FOOT OFF THE FACE OF CURB A CITY MON #8963 SET
 IN THE TOP OF THE INLET.
 ELEV: 654.31'
 NAD83 TXNC (GRID)
 N: 7038654.13'
 E: 2332805.78'

SITE BENCHMARK:

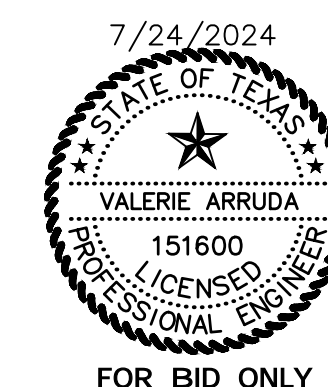
TBM #1 - "X" CUT IN SQUARE LOCATED APPROXIMATELY 150' SOUTHEAST
 OF THE SOUTHEAST INTERSECTION OF WESTPORT PARKWAY AND
 SOUTHEAST BOUND LANE OF ALTA VISTA DRIVE. BENCHMARK IS
 APPROXIMATELY 40' SOUTHEAST OF THE NORTH ENTRANCE TO THE
 SUBJECT PROPERTY, ON TOP OF A CURB INLET IN THE SOUTH RIGHT OF
 WAY OF ALTA VISTA DRIVE.
 ELEV: 674.75'
 NAD83 TXNC (GRID)
 N: 7039891.09'
 E: 2341537.55'

TBM #2 - "X" CUT IN SQUARE LOCATED APPROXIMATELY 55'
 SOUTHWEST OF THE SOUTHEAST INTERSECTION OF ALTA VISTA DRIVE AND
 NORTHEAST BOUND LANE OF WESTPORT PARKWAY. BENCHMARK IS ON A
 CURB INLET IN THE EAST RIGHT OF WAY OF WESTPORT PARKWAY.
 ELEV: 675.54'
 NAD83 TXNC (GRID)
 N: 7039572.76'
 E: 2341024.54'



Sheet List Table

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C0.2	FINAL PLAT
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C3.0	SITE PLAN
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C11.3	STORM DRAIN DETAILS
C11.4	WATER DETAILS
C11.5	SEWER DETAILS
L1.01	LANDSCAPE NOTES AND LEGENDS
L1.02	OVERALL LANDSCAPE PLAN
L1.03	LANDSCAPE PLAN
L1.04	LANDSCAPE PLAN
L1.05	LANDSCAPE PLAN
L1.06	LANDSCAPE DETAILS



FOR BID ONLY

FORT WORTH

CITY PLAN COMMISSION
CITY OF FORT WORTH, TEXAS

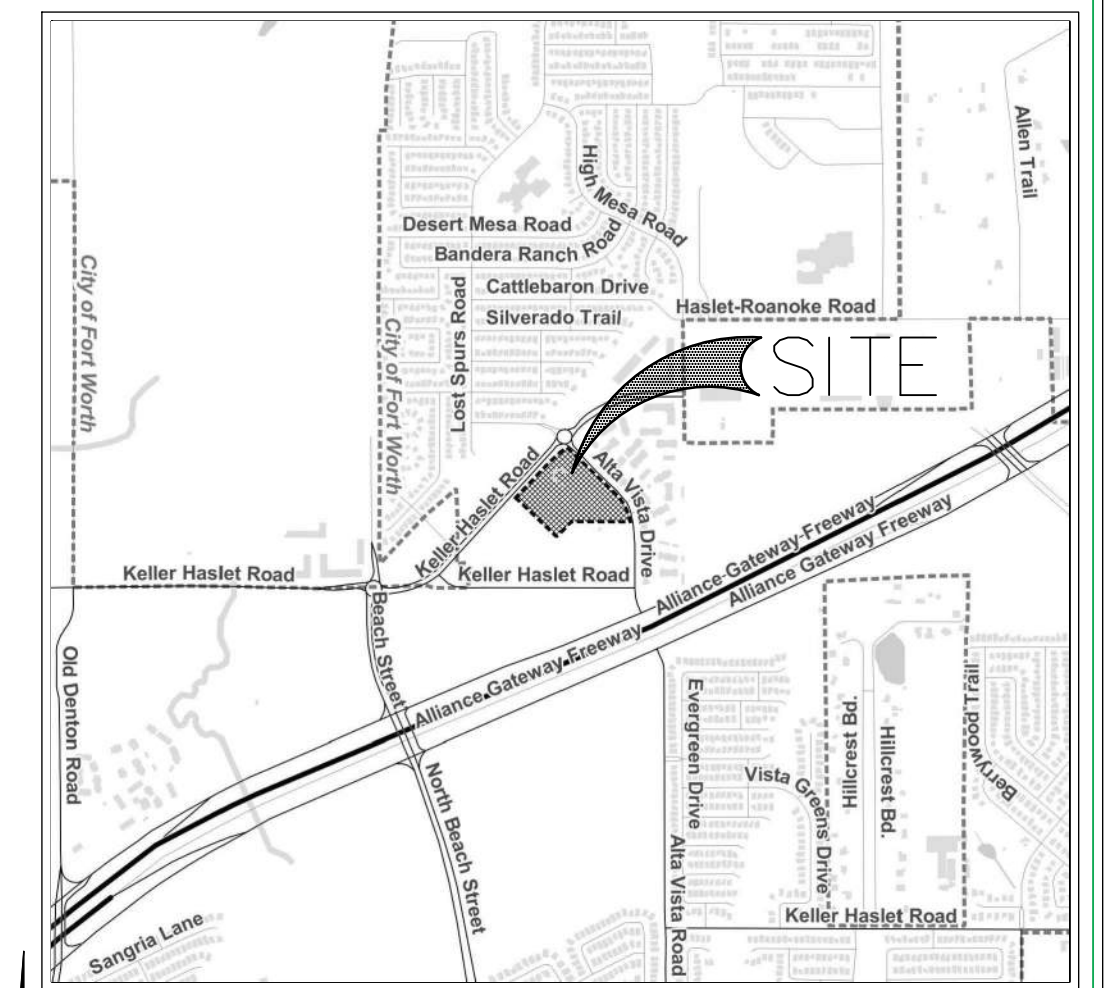
THIS PLAT IS VALID ONLY IF RECORDED WITHIN
 NINETY (90) DAYS AFTER DATE OF APPROVAL.

Plot Approval Date:

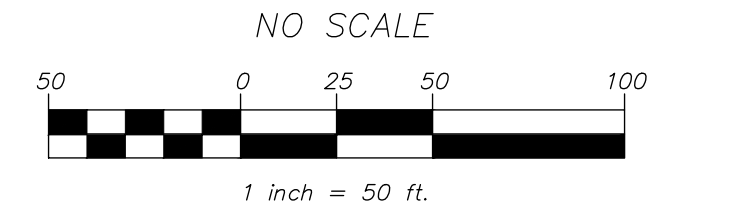
BY: _____ Chairman

BY: _____ Secretary

LAND USE TABLE			
LAND USE	LOTS	ACREAGE	SQUARE FEET
RIGHT-OF-WAY	N/A	---	---
COMMERCIAL	1	9.017	392,769
TOTAL	1	9.017	392,769



VICINITY MAP



LEGEND/ABBREVIATIONS

- CIRS 5/8" CAPPED IRON ROD SET STAMPED "MMA" (UNLESS OTHERWISE NOTED)
- CIRF CAPPED IRON ROD FOUND
- DRCT DEED RECORDS TARRANT COUNTY, TEXAS
- PRCT PLAT RECORDS TARRANT COUNTY, TEXAS
- OPRCT OFFICIAL PUBLIC RECORDS TARRANT COUNTY, TEXAS
- VOL. VOLUME
- PG. PAGE
- UE UTILITY EASEMENT
- BL BUILDING LINE
- DE DRAINAGE EASEMENT
- SSE SANITARY SEWER EASEMENT
- POC POINT OF COMMENCING
- POB POINT OF BEGINNING
- FND. FOUND
- IRF IRON ROD FOUND
- MFF MINIMUM FINISHED FLOOR ELEVATION
- * FEMA ELEVATION CERTIFICATE NOT REQUIRED
- CC# COUNTY CLERK'S INSTRUMENT NUMBER

FINAL PLAT OF
LOT 1R, BLOCK 1
OUR LADY OF GRACE ADDITION

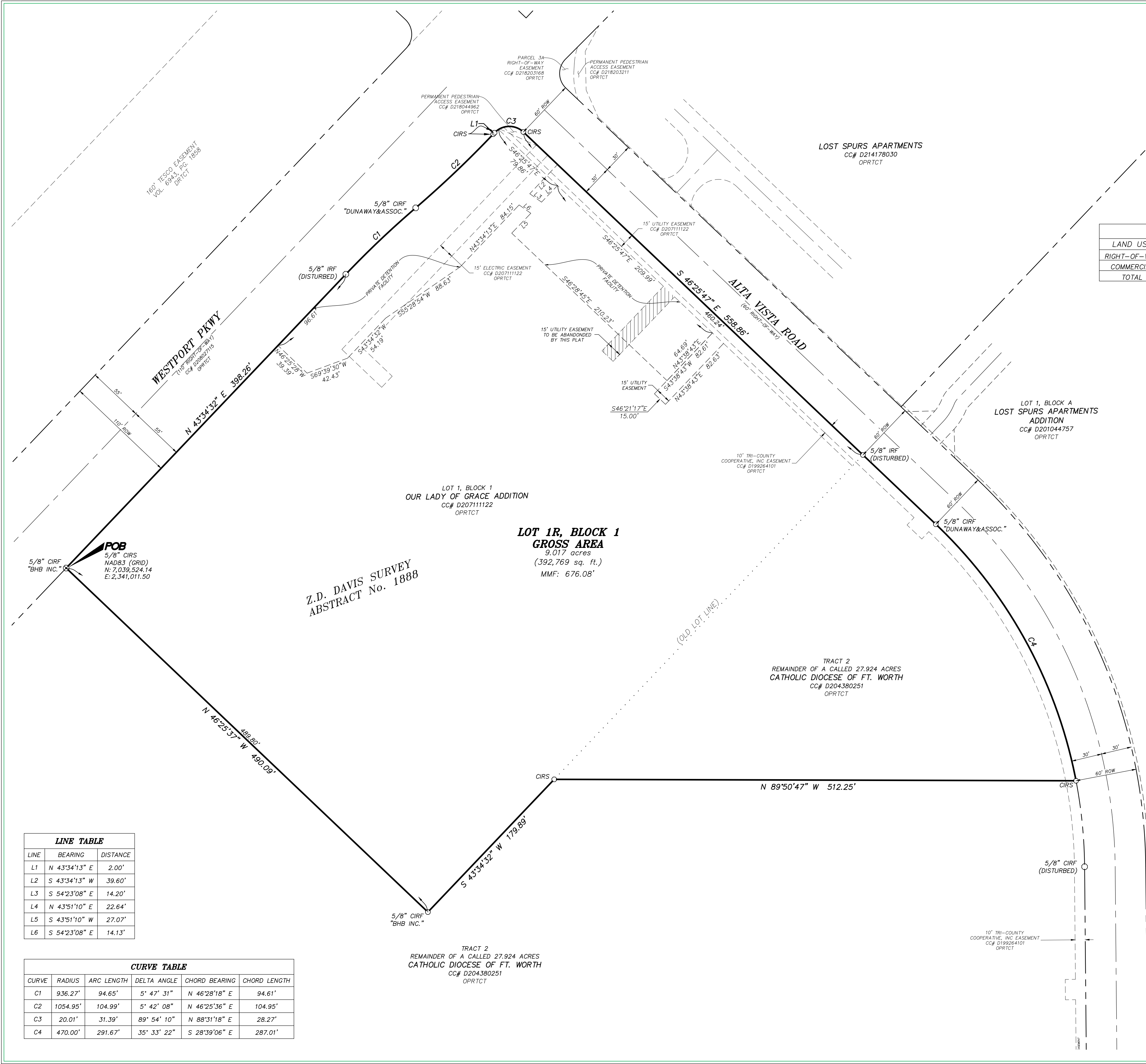
BEING 9.017 ACRES OF LAND SITUATED IN THE
 Z.D. DAVIS SURVEY, ABSTRACT NO. 1888
 CITY OF FORT WORTH, TARRANT COUNTY, TEXAS
 AND BEING A REPLAT OF LOT 1, BLOCK 1 OF OUR
 LADY OF GRACE ADDITION, AN ADDITION TO THE CITY
 OF FORT WORTH, TARRANT COUNTY, TEXAS

1 COMMERCIAL LOT

APRIL 2024
 SURVEYOR/ENGINEER:

mima
 mima engineering surveying landscape architecture planning
 tps registration number: 1 - 2759
 tps registration/license number: 10088000
 519 east border
 arlington, texas 76010
 817-469-1671
 fax: 817-274-8757
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SHEET 1 OF 2



LOT 1R, BLOCK 1
GROSS AREA
 9.017 acres
 (392,769 sq. ft.)
 MMF: 676.08'

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 43°34'13" E	2.00'
L2	S 43°34'13" W	39.60'
L3	S 54°23'08" E	14.20'
L4	N 43°51'10" E	22.64'
L5	S 43°51'10" W	27.07'
L6	S 54°23'08" E	14.13'

CURVE TABLE					
CURVE	RADIUS	ARC LENGTH	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C1	936.27'	94.65'	5° 47' 31"	N 46°28'18" E	94.61'
C2	1054.95'	104.99'	5° 42' 08"	N 46°25'36" E	104.95'
C3	20.01'	31.39'	89° 54' 10"	N 88°31'18" E	28.27'
C4	470.00'	291.67'	35° 33' 22"	S 28°39'06" E	287.01'

PLATTED BY: CARLOS BELARMO DATE: 4/20/24 3:24 PM PLOT: P3788-00-01 1000 Lines Surveying/005 Plating/0786-00-01 (Final.dwg)

GENERAL NOTES:

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST EDITION OF THE CITY OF FORT WORTH STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION.
2. THE LOCATIONS OF ALL EXISTING UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM EXISTING PUBLIC RECORDS OR PROVIDED BY VARIOUS OWNERS OF THE FACILITIES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFICATION OF VERTICAL AND HORIZONTAL LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION. SUCH VERIFICATION SHALL BE CONSIDERED SUBSIDIARY TO ALL OTHER BID ITEMS. NOTIFY THE PROJECT INSPECTOR PROMPTLY OF ALL CONFLICTS OF THE WORK WITH EXISTING UTILITIES.
3. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES WITH FACILITIES IN PROJECT AREA 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH THE PROPER UTILITY COMPANIES TO RELOCATE, BRACE, AND SUPPORT ANY UTILITY IN CONFLICT WITH THE PROPOSED STRUCTURE OR CONSTRUCTION. ALL ASSOCIATED WORK SHALL BE CONSIDERED SUBSIDIARY TO ALL OTHER BID ITEMS. ANY REPAIR TO THE DAMAGED EXISTING UTILITIES SHALL BE THE COST OF CONTRACTOR.
4. PUBLIC OR PRIVATE UTILITY LINES MAY EXIST THAT ARE NOT SHOWN ON THE CONSTRUCTION PLANS. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE INTEGRITY OF THESE LINES. SUCH WORK SHALL BE CONSIDERED SUBSIDIARY TO ALL OTHER BID ITEMS.
5. A TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) PERMIT WILL BE REQUIRED WHEN ENTERING/CROSSING RIGHT-OF-WAY OF TXDOT. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING TXDOT 48 HOURS PRIOR TO CONSTRUCTION.
6. TRENCH SAFETY PLAN SHALL BE STAMPED, SIGNED, AND DATED BY A LICENSED PROFESSIONAL ENGINEER AND SUBMITTED TO THE PROJECT ENGINEER BEFORE OR DURING PRE-CONSTRUCTION MEETING.
7. THREE COPIES OF "STORM WATER POLLUTION PREVENTION PLAN (SWPPP)" SEALED BY A LICENSED PROFESSIONAL ENGINEER SHALL BE SUBMITTED TO THE PROJECT ENGINEER AT LEAST 10 WORKING DAYS PRIOR TO CONSTRUCTION. A "NOTICE OF INTENT" (NOI) SHALL BE INCLUDED IN THE SUBMITTAL IF THE PROJECT IS 5 ACRES IN SIZE OR LARGER. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING A NOTICE OF TERMINATION (NOT) WITHIN 30 DAYS OF THE PROJECT COMPLETION.
8. A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO PUBLIC WORKS/TRANSPORTATION DEPARTMENT - TRANSPORTATION DIVISION FOR APPROVAL FOR ANY UTILITY AND STREET WORK THAT WILL CAUSE LANE CLOSURES. AT LEAST ONE LANE TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AN APPROVED TRAFFIC CONTROL PLAN TO THE PROJECT INSPECTOR.
9. THE CONTRACTOR SHALL NOTIFY THE PROJECT INSPECTOR AT LEAST THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION IN ORDER TO COORDINATE CONSTRUCTION, ADMINISTRATION, AND INSPECTION ACTIVITIES.
10. ALL WATER AND SANITARY SEWER WORK REQUIRED WITHIN THE PRIVATE PROPERTY SHALL BE PERFORMED BY A LICENSED PLUMBER. THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER AND IMMEDIATELY COMMENCE SURFACE RESTORATION TO AN EQUAL OR BETTER CONDITION AFTER THE WATER AND SEWER WORK IS COMPLETE.
11. THE CONTRACTOR SHALL AVOID DAMAGING ANY EXISTING SPRINKLER SYSTEM THAT MAY BE IN THE CONSTRUCTION AREA. REMOVED OR DAMAGED SPRINKLER SYSTEM SHALL BE REPAIRED BY A LICENSED IRRIGATOR. THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO ALL OTHER BID ITEMS.
12. THE CONTRACTOR SHALL AVOID DAMAGING ANY LANDSCAPING THAT MAY BE IN THE CONSTRUCTION AREA. REPLACING DAMAGED LANDSCAPING SHALL BE CONSIDERED SUBSIDIARY TO ALL OTHER BID ITEMS UNLESS OTHERWISE INDICATED ON THE CONSTRUCTION PLAN OR BID PROPOSAL.
13. REMOVAL OF TREES AND OTHER EXISTING STRUCTURES SHALL BE CONSIDERED SUBSIDIARY TO ALL OTHER BID ITEMS UNLESS OTHERWISE INDICATED ON THE CONSTRUCTION PLAN OR BID PROPOSAL OR APPROVED BY THE PROJECT INSPECTOR.
14. ALL TRENCHES SHALL BE BACKFILLED AT THE END OF EACH WORKING DAY. THE CONTRACTOR SHALL PROVIDE ALL FENCING AND/OR BARRICADES TO MAINTAIN PUBLIC SAFETY AROUND THE CONSTRUCTION AREA.
15. THE CONTRACTOR SHALL CLEAN UP DIRT AND DEBRIS IN THE PAVED AREAS TO ENSURE THE STREET IS IN DRIVABLE CONDITION AT THE END OF EACH WORKING DAY.
16. EXISTING MAIL BOXES SHALL BE PROTECTED AND MAIL SERVICE SHALL NOT BE INTERRUPTED.
17. ALL WATER AND SANITARY SEWER LINES USING DUCTILE IRON PIPE SHALL BE CLASS 350 UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION PLANS OR BID ITEMS. ALL DUCTILE IRON PIPES SHALL BE WRAPPED BY POLYETHYLENE ENCASEMENT TO MEET ANSI/AWWA C105/A21.5 SPECIFICATIONS WITH A MINIMUM 8MIL THICKNESS.
18. ALL PIPE FITTINGS SHALL BE DUCTILE IRON AND RESTRAINED WITH BOTH CONCRETE BLOCKING AND MEGALUGS. ALL PIPE FITTINGS SHALL BE CONSIDERED SUBSIDIARY TO THE PIPE PRICES.
19. REMOVAL, SALVAGE, AND ABANDONMENT OF THE EXISTING WATER AND SEWER LINES SHALL BE CONSIDERED SUBSIDIARY TO ALL OTHER BID ITEMS.
20. REMOVAL AND HAUL-OFF EXCESS CONSTRUCTION MATERIALS FROM THE CONSTRUCTION SITE SHALL BE CONSIDERED SUBSIDIARY TO ALL OTHER BID ITEMS.
21. ALL EXISTING FENCES REMOVED OR DAMAGED BY CONSTRUCTION SHALL BE REPLACED OR RESTORED WITH SAME TYPE, STYLE, AND MATERIAL TO AN EQUAL OR BETTER CONDITION. THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO ALL OTHER BID ITEMS UNLESS OTHERWISE INDICATED ON THE CONSTRUCTION PLAN OR BID PROPOSAL.
22. ALL TEMPORARY FENCES SHALL BE INSTALLED TO PROTECT PRIVATE PROPERTIES WHEN THE CONSTRUCTION WORK IS PERFORMED WITHIN THE EASEMENTS. THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO ALL OTHER BID ITEMS UNLESS OTHERWISE INDICATED ON THE CONSTRUCTION PLAN OR BID PROPOSAL.

WATER NOTES:

1. ALL WATER MAINS USING PVC PIPE SHALL BE IN COMPLIANCE WITH AWWA C900 OR C905.
2. CLASS "C" EMBEDMENT SHALL BE USED FOR ALL WATER MAINS.
3. THERE SHALL BE A MINIMUM COVER OF FORTY-TWO INCHES (42") OVER THE WATER PIPE AS MEASURED FROM THE TOP OF THE PIPE TO THE EXISTING GROUND, OR THE PROPOSED FINISHED GRADES, WHICHEVER IS GREATER.
4. FIRE HYDRANTS SHALL BE LOCATED THREE TO FIVE FEET (3'-5') FROM BACK OF THE CURB, AND SHALL NOT EXCEED EIGHT FEET (8') FROM BACK OF THE CURB UNLESS OTHERWISE INDICATED ON THE CONSTRUCTION PLAN.
5. WHEN REPLACING WATER SERVICES, ALL EXISTING WATER METER BOXES SHALL BE REPLACED AND THE METERS SHALL BE RELOCATED TO THREE FEET (3') BACK OF THE CURB OR AS SHOWN ON THE CONSTRUCTION PLANS.
6. ALL VALVE BOXES SHALL BE ADJUSTED UP TO THE FINISHED PAVEMENT GRADE. THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO ALL OTHER BID ITEMS UNLESS OTHERWISE INDICATED ON THE CONSTRUCTION PLAN OR BID PROPOSAL.
7. NO WELDED OUTLET IS ALLOWED FOR THE DUCTILE IRON WATER LINE.

SANITARY SEWER NOTES:

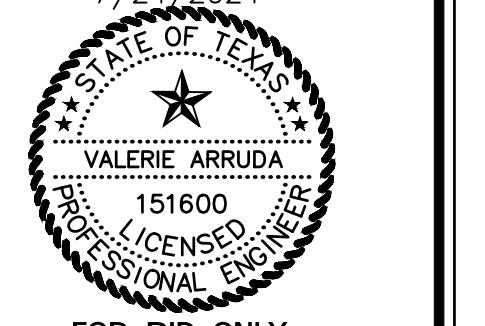
1. ALL SANITARY SEWER MAINS USING PVC PIPE SHALL BE SDR-26, HEAVY WALL, IN COMPLIANCE WITH ASTM D-3034 LATEST REVISION.
2. CLASS "B" EMBEDMENT SHALL BE USED FOR ALL SANITARY SEWER MAINS.
3. THE CONTRACTOR SHALL ENSURE ALL THE EXISTING SEWER SERVICES THAT CAN BE RECONNECTED OR REROUTED TO THE NEW MAINS. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER ANY POTENTIAL CONFLICTS PRIOR TO CONSTRUCTION SO THE MODIFICATION CAN BE MADE IF NECESSARY.
4. THE CONTRACTOR SHALL CONDUCT A PRE-CONSTRUCTION TELEVISION INSPECTION OF ALL THE EXISTING SEWER LINES TO BE ABANDONED OR REHABILITATED BY OTHER THAN OPEN CUT TO VERIFY THE SERVICE LOCATIONS AND LINE CONDITIONS. THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO ALL OTHER BID ITEMS UNLESS OTHERWISE INDICATED ON THE CONSTRUCTION PLAN OR BID PROPOSAL.
5. ALL SEWER SERVICES SHALL BE REPLACED WITH 4" PVC FROM THE NEW MAIN TO THE PROPERTY LINE OR EASEMENT LINE UNLESS OTHERWISE INDICATED ON THE CONSTRUCTION PLAN OR BID PROPOSAL.
6. THE CONTRACTOR SHALL VERIFY THE EXISTING SANITARY SEWER SLOPE PRIOR TO MAKING CONNECTION. SLOPE OF THE NEW MAIN AND THE EXISTING MAIN SHALL MATCH UNLESS OTHERWISE INDICATED ON THE CONSTRUCTION PLAN. A REDUCER SHALL BE USED WHEN A LARGER SIZE LINE CONNECTS TO A SMALLER SIZE LINE.
7. THE CONTRACTOR SHALL VERIFY THE SIZE, ELEVATION, AND MATERIAL OF THE EXISTING LINE PRIOR TO ORDERING PREFABRICATED MANHOLE.
8. REWORK THE INVERT WHERE TYING INTO AN EXISTING MANHOLE.
9. BYPASS PUMP REQUIRED FOR PERFORMING CONSTRUCTION WORK SHALL BE CONSIDERED SUBSIDIARY TO ALL OTHER BID ITEMS UNLESS OTHERWISE INDICATED ON THE CONSTRUCTION PLAN OR BID PROPOSAL.
10. ALL MANHOLE AND CLEANOUT SHALL BE ADJUSTED UP TO THE FINISHED PAVEMENT GRADE. THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO ALL OTHER BID ITEMS UNLESS OTHERWISE INDICATED ON THE CONSTRUCTION PLAN OR BID PROPOSAL.

**ST. TERESA OF CALCUTTA CATHOLIC CHURCH
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GENERAL NOTES**



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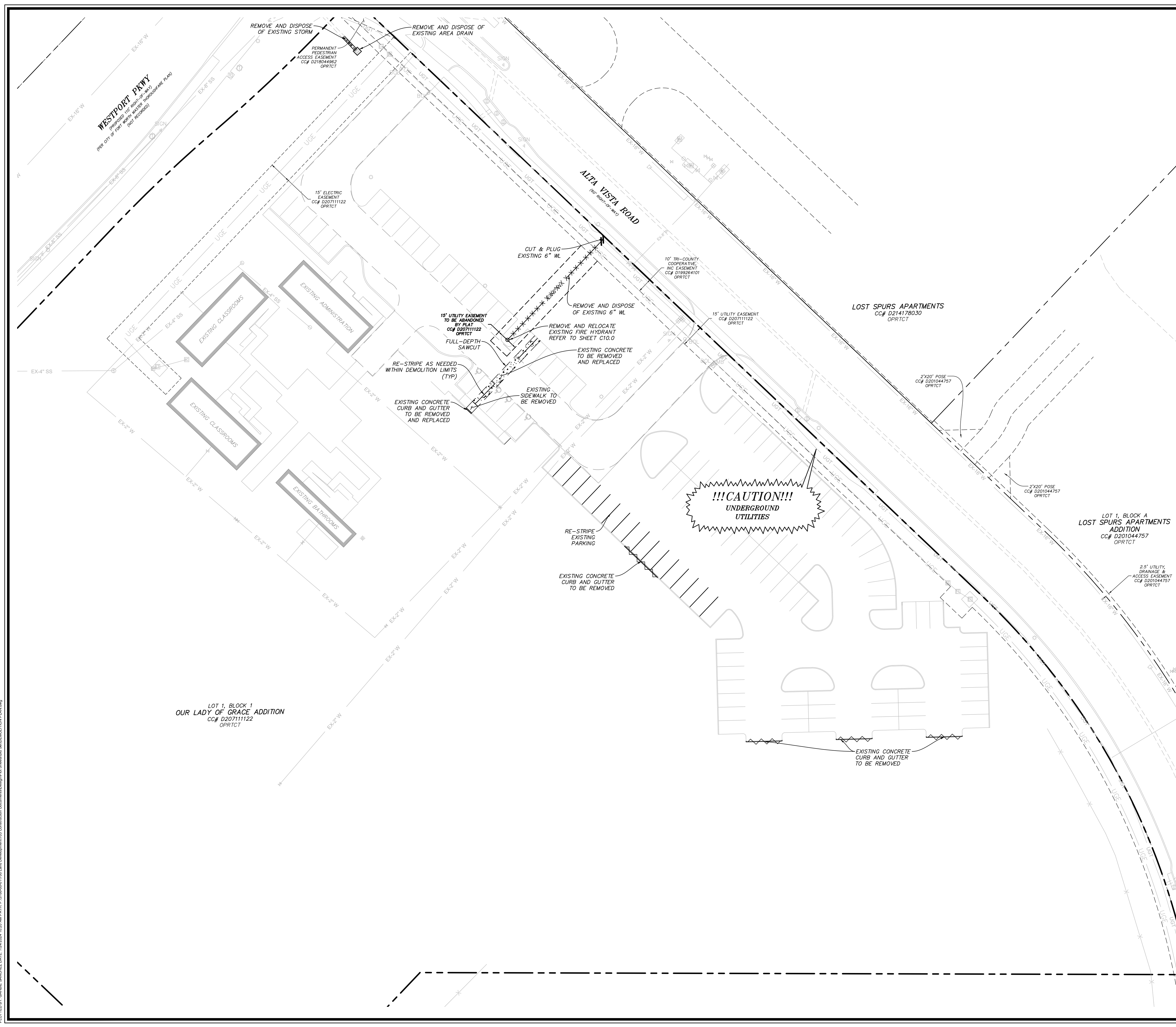
PROJECT NUMBER:	3788-00-01
PROJECT MANAGER:	R. CRONIN
DRAWN BY:	G. SANCHEZ
CHECKED BY:	V. ARRUDA
ISSUE DATE:	7/24/2024

REV.	DATE	DESCRIP.	BY

GENERAL NOTES

SHEET NO: **C1.0**

PLOTTED BY: GABRIEL SANCHEZ DATE: 7/24/2024 10:20 AM PATH: F:\3788-00\01\300 Lead Development\300 Construction Documents\Drawings\100 General Notes.dwg



30 0 15 30 60
1 inch = 30 ft.

LEGEND:

- SAWCUT & REMOVE EXISTING CURB & GUTTER
- REMOVE EXISTING CONCRETE PAVEMENT
- REMOVE EXISTING SIDEWALK
- REMOVE EXISTING WATER LINE

!!!CAUTION!!!
UNDERGROUND UTILITIES

- NOTES:**
- CONTRACTOR TO DISPOSE OF ALL DEMOLITION DEBRIS AT AN APPROVED DISPOSAL FACILITY.
 - CONTRACTOR IS RESPONSIBLE FOR LOCATING EXISTING UTILITIES AND PROTECTING THEM THROUGHOUT CONSTRUCTION.
 - CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR SITE DEMOLITION.
 - ALL WASTE WATER AND SANITARY SEWER SERVICES TO BE ABANDONED SHALL BE DISCONNECTED AND CAPPED IN ACCORDANCE WITH JURISDICTIONAL REQUIREMENTS.
 - REFER TO SITE AND GRADING PLAN FOR CONSTRUCTION LIMITS.
 - CONTRACTOR TO MAINTAIN EXISTING DRAINAGE PATTERNS.

GENERAL UTILITY NOTES:
ALL EXISTING UTILITY DATA IS PROVIDED FOR INFORMATION ONLY. ALTHOUGH THIS DATA IS SHOWN AS ACCURATE AS POSSIBLE, THE CONTRACTOR IS CAUTIONED THAT THE OWNER AND THE ENGINEER NEITHER ASSUME NOR IMPLY ANY RESPONSIBILITY FOR THE ACCURACY OF THIS DATA. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY AFFECTED AND VERIFY THESE LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.

CALL TEXAS 811 OR OTHER UTILITY LOCATING SERVICES 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY. MMA INC. IS NOT RESPONSIBLE FOR KNOWING ALL EXISTING UTILITIES OR DEPICTING EXACT LOCATIONS OF UTILITIES ON DRAWINGS.

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BEARINGS AND COORDINATE VALUES SHOWN HEREON ARE IN REFERENCE TO THE NAD83 TEXAS COORDINATE SYSTEM - NORTH CENTRAL ZONE, 4202, BASED ON GPS OBSERVATIONS UTILIZING THE LEICA GPS REFERENCE NETWORK. THE PROJECT SCALE FACTOR IS 1.000154642983 (0.999845380927), BASE POINT OF 0,0,0.

LOT 1, BLOCK 1
OUR LADY OF GRACE ADDITION
CC# D207111122
OPRTCT

LOST SPURS APARTMENTS
CC# D214178030
OPRTCT

LOT 1, BLOCK A
LOST SPURS APARTMENTS
ADDITION
CC# D201044757
OPRTCT

**ST. TERESA OF CALCUTTA CATHOLIC CHURCH
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DEMOLITION PLAN**

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7/24/2024
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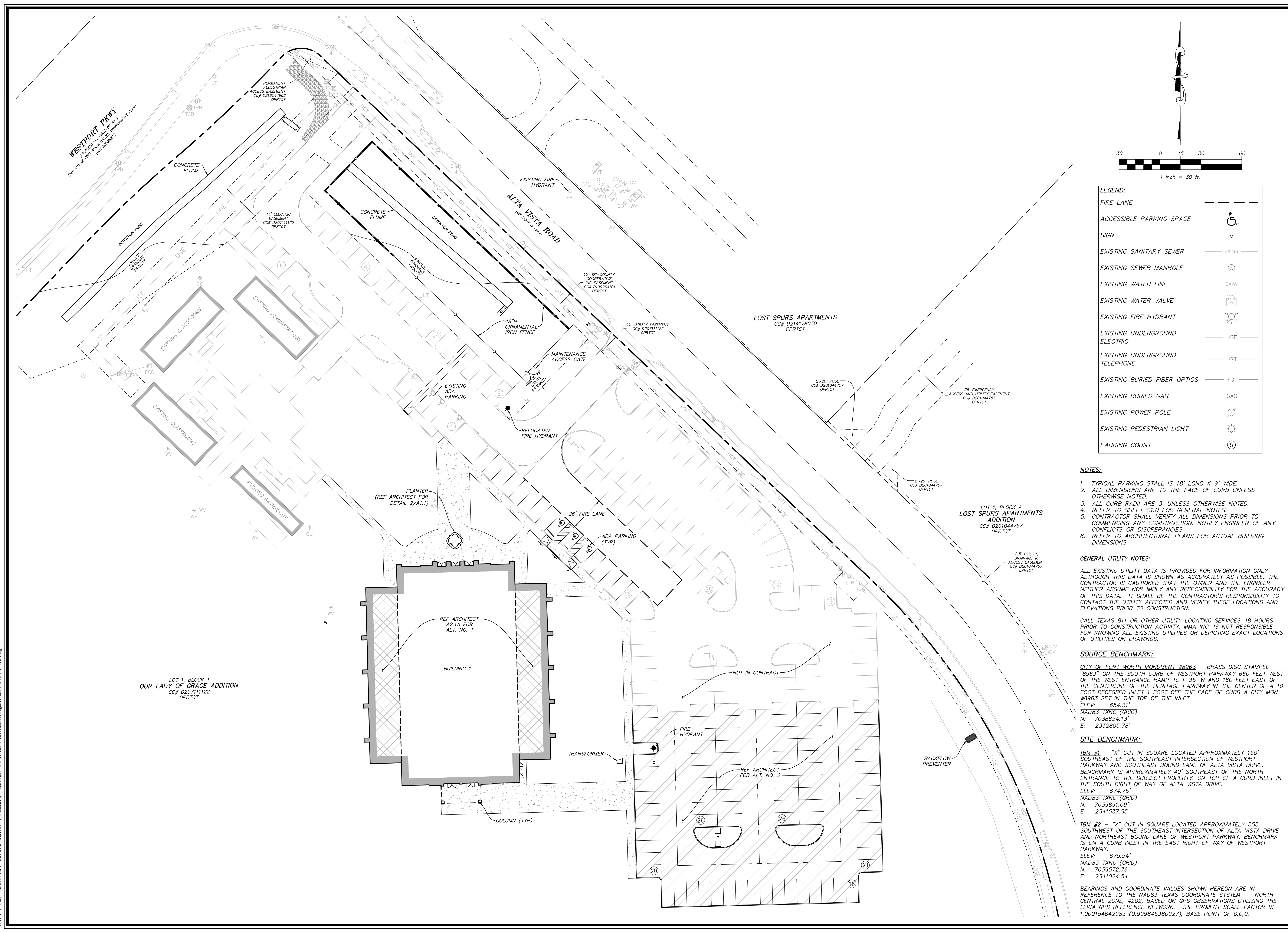
REV.	DATE	DESCRIP.	BY

SHEET CONTENT:
DEMOLITION PLAN

SHEET NO:
C2.0

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PLOTTED BY: GABRIEL SANCHEZ DATE: 7/24/2024 10:20 AM PATH: P:\3788-00\1700 Lead Development\3D Construction Documents\Drawings\Site\Sheet\BLL_Bldg\DEMOLITION PLAN.dwg



LEGEND:

FIRE LANE	---
ACCESSIBLE PARKING SPACE	♿
SIGN	⊕
EXISTING SANITARY SEWER	EX-SS
EXISTING SEWER MANHOLE	⊙
EXISTING WATER LINE	EX-W
EXISTING WATER VALVE	⊗
EXISTING FIRE HYDRANT	⊙
EXISTING UNDERGROUND ELECTRIC	---
EXISTING UNDERGROUND TELEPHONE	---
EXISTING BURIED FIBER OPTICS	---
EXISTING BURIED GAS	---
EXISTING POWER POLE	⊙
EXISTING PEDESTRIAN LIGHT	⊙
PARKING COUNT	⊙

- NOTES:**
- TYPICAL PARKING STALL IS 18' LONG X 9' WIDE.
 - ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
 - ALL CURB RADII ARE 3' UNLESS OTHERWISE NOTED.
 - REFER TO SHEET C1.0 FOR GENERAL NOTES.
 - CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCING ANY CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS OR DISCREPANCIES.
 - REFER TO ARCHITECTURAL PLANS FOR ACTUAL BUILDING DIMENSIONS.

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SITE BENCHMARK:

TBM #1 - "X" CUT IN SQUARE LOCATED APPROXIMATELY 150' SOUTHWEST OF THE SOUTHWEST INTERSECTION OF WESTPORT PARKWAY AND SOUTHEAST BOUND LANE OF ALTA VISTA DRIVE. BENCHMARK IS APPROXIMATELY 40' SOUTHWEST OF THE NORTH ENTRANCE TO THE SUBJECT PROPERTY, ON TOP OF A CURB INLET IN THE SOUTH RIGHT OF WAY OF ALTA VISTA DRIVE.

ELEV: 674.75'
 NAD83 TXNC (GRID)
 N: 7039891.09'
 E: 2341537.55'

TBM #2 - "X" CUT IN SQUARE LOCATED APPROXIMATELY 555' SOUTHWEST OF THE SOUTHWEST INTERSECTION OF ALTA VISTA DRIVE AND NORTHEAST BOUND LANE OF WESTPORT PARKWAY. BENCHMARK IS ON A CURB INLET IN THE EAST RIGHT OF WAY OF WESTPORT PARKWAY.

ELEV: 675.54'
 NAD83 TXNC (GRID)
 N: 7039572.76'
 E: 2341024.54'

BEARINGS AND COORDINATE VALUES SHOWN HEREON ARE IN REFERENCE TO THE NAD83 TEXAS COORDINATE SYSTEM - NORTH CENTRAL ZONE, 4202, BASED ON GPS OBSERVATIONS UTILIZING THE LEICA GPS REFERENCE NETWORK. THE PROJECT SCALE FACTOR IS 1.000154642983 (0.999845380927), BASE POINT OF 0,0,0.

**ST. TERESA OF CALCUTTA CATHOLIC CHURCH
 FORT WORTH, TEXAS
 SITE PLAN**

mma
 civil engineering surveying landscape architecture planning
 tpeles registration number: 1 - 2759
 tpeles registration/license number: 10088000
 519 east border
 arlington, texas 76010
 817-469-1671
 fax: 817-274-8757
 www.mmatax.com

7/24/2024
 STATE OF TEXAS
 VALERIE ARRUDA
 151600
 LICENSED PROFESSIONAL ENGINEER
 FOR BID ONLY

PROJECT NUMBER:	3788-00-01
PROJECT MANAGER:	R. CRONIN
DRAWN BY:	G. SANCHEZ
CHECKED BY:	V. ARRUDA
ISSUE DATE:	7/24/2024

REV.	DATE	DESCRIP.	BY

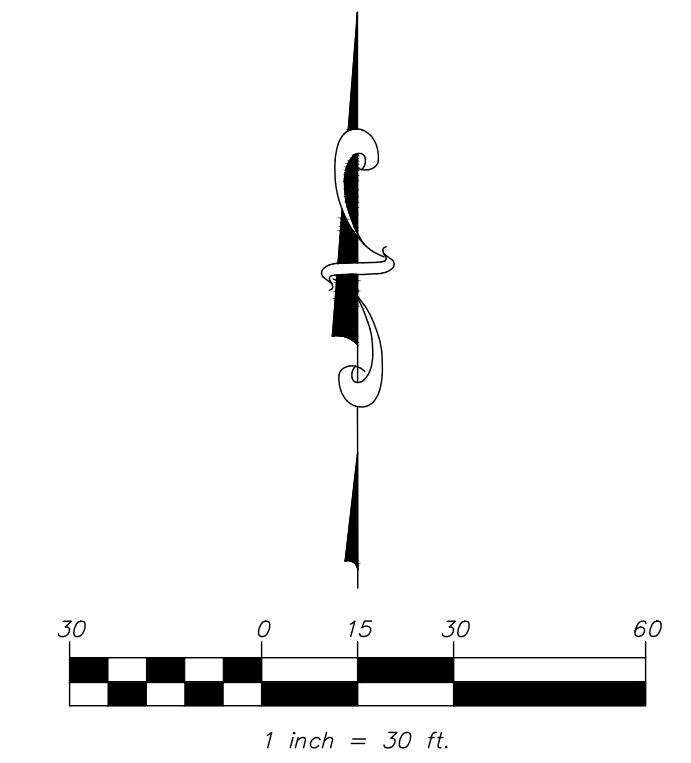
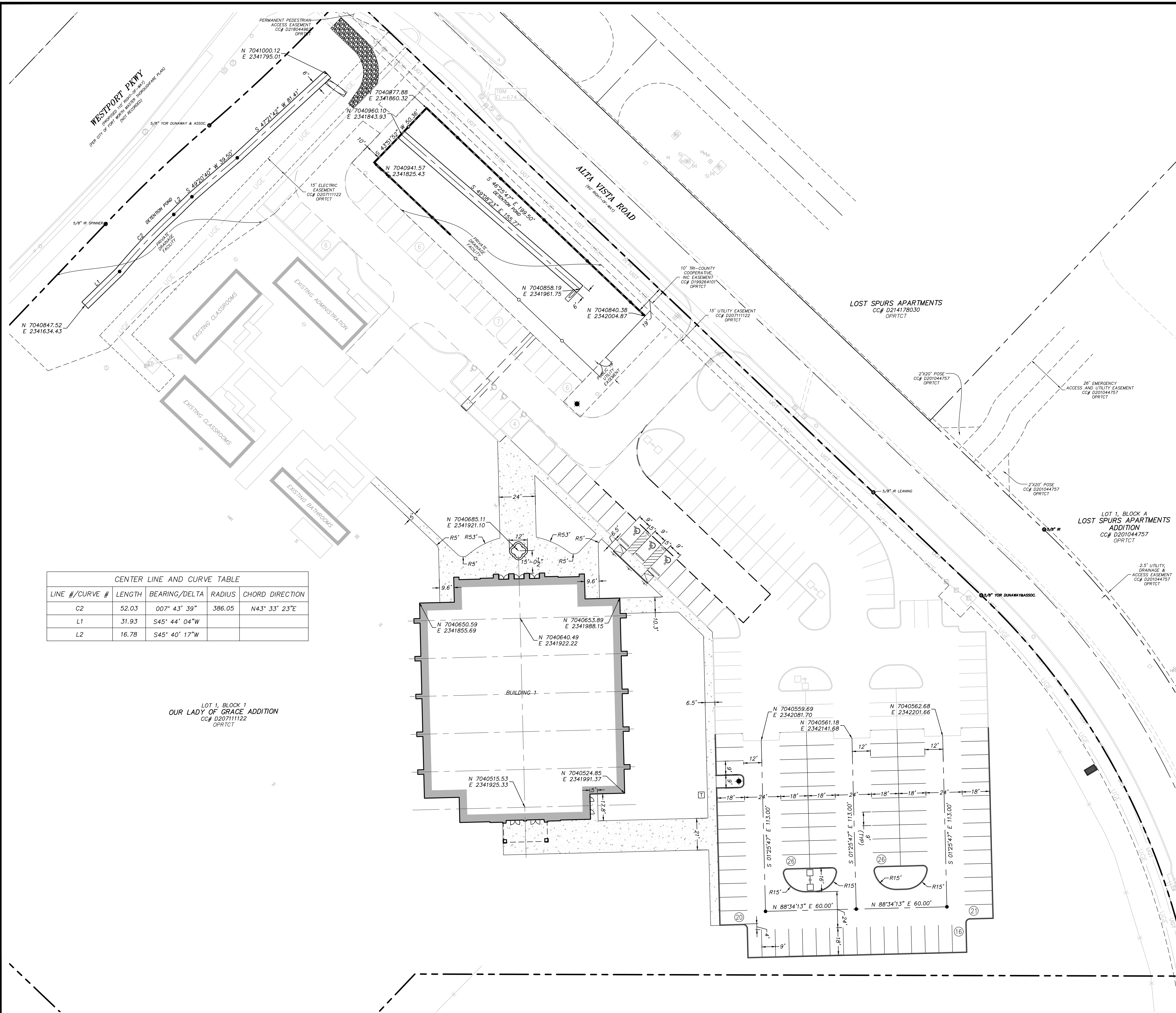
SHEET CONTENT:
SITE PLAN

SHEET NO:
C3.0

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PLOTTED BY: GABRIEL SANCHEZ DATE: 7/24/2024 10:20 AM PATH: F:\3788-00\01\300 Lead Development\300 Construction Documents\Drawings\Site\Sheet\Bldg\Bldg SITE PLAN.dwg

**ST. TERESA OF CALCUTTA CATHOLIC CHURCH
FORT WORTH, TEXAS
DIMENSIONAL CONTROL PLAN**



LEGEND:

FIRE LANE	
ACCESSIBLE PARKING SPACE	
SIGN	
WHEEL STOP	
EXISTING SANITARY SEWER	
EXISTING SEWER MANHOLE	
EXISTING WATER LINE	
EXISTING WATER VALVE	
EXISTING FIRE HYDRANT	
PROPOSED FIRE HYDRANT	
EXISTING UNDERGROUND ELECTRIC	
EXISTING UNDERGROUND TELEPHONE	
EXISTING PEDESTRIAN LIGHT	
PROPOSED PEDESTRIAN LIGHT	
PROPOSED LIGHT POLE	
PARKING COUNT	

- NOTES:**
- TYPICAL PARKING STALL IS 18' LONG X 9' WIDE.
 - ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
 - ALL CURB RADII ARE 3' UNLESS OTHERWISE NOTED.
 - REFER TO SHEET C1.0 FOR GENERAL NOTES.
 - CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCING ANY CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS OR DISCREPANCIES.
 - REFER TO ARCHITECTURAL PLANS FOR ACTUAL BUILDING DIMENSIONS.
 - REFER TO PHOTOMETRIC PLAN FOR LIGHTING TYPE AND INTENSITY INFORMATION.
- GENERAL UTILITY NOTES:**
- ALL EXISTING UTILITY DATA IS PROVIDED FOR INFORMATION ONLY. ALTHOUGH THIS DATA IS SHOWN AS ACCURATE AS POSSIBLE, THE CONTRACTOR IS CAUTIONED THAT THE OWNER AND THE ENGINEER NEITHER ASSUME NOR IMPLY ANY RESPONSIBILITY FOR THE ACCURACY OF THIS DATA. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY AFFECTED AND VERIFY THESE LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
- CALL TEXAS 811 OR OTHER UTILITY LOCATING SERVICES 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY. MMA INC. IS NOT RESPONSIBLE FOR KNOWING ALL EXISTING UTILITIES OR DEPICTING EXACT LOCATIONS OF UTILITIES ON DRAWINGS.

SOURCE BENCHMARK:
CITY OF FORT WORTH MONUMENT #8963 - BRASS DISC STAMPED "8963" ON THE SOUTH CURB OF WESTPORT PARKWAY 660 FEET WEST OF THE WEST ENTRANCE RAMP TO I-35-W AND 160 FEET EAST OF THE CENTERLINE OF THE HERITAGE PARKWAY IN THE CENTER OF A 10 FOOT RECESSED INLET 1 FOOT OFF THE FACE OF CURB A CITY MON #8963 SET IN THE TOP OF THE INLET.
ELEV: 654.31'
NAD83 TXNC (GRID)
N: 7039854.13
E: 2332805.78'

SITE BENCHMARK:
TBM #1 - "X" CUT IN SQUARE LOCATED APPROXIMATELY 150' SOUTHWEST OF THE SOUTHWEST INTERSECTION OF WESTPORT PARKWAY AND SOUTHEAST BOUND LANE OF ALTA VISTA DRIVE. BENCHMARK IS APPROXIMATELY 40' SOUTHWEST OF THE NORTH ENTRANCE TO THE SUBJECT PROPERTY, ON TOP OF A CURB INLET IN THE SOUTH RIGHT OF WAY OF ALTA VISTA DRIVE.
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CENTER LINE AND CURVE TABLE

LINE #/CURVE #	LENGTH	BEARING/DELTA	RADIUS	CHORD DIRECTION
C2	52.03	007° 43' 39"	386.05	N43° 33' 23"E
L1	31.93	S45° 44' 04"W		
L2	16.78	S45° 40' 17"W		

LOT 1, BLOCK 1
OUR LADY OF GRACE ADDITION
CC# D20711122
OPRTCT

mma
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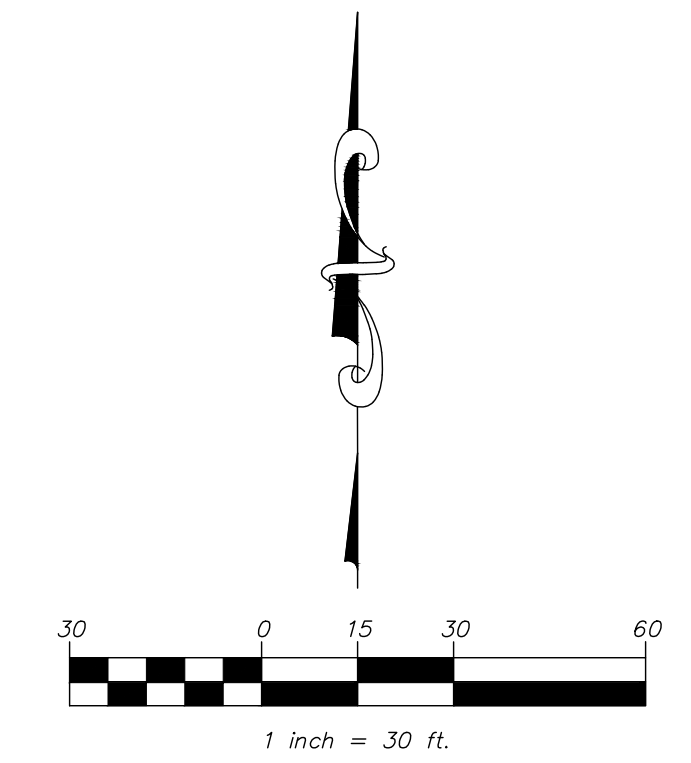
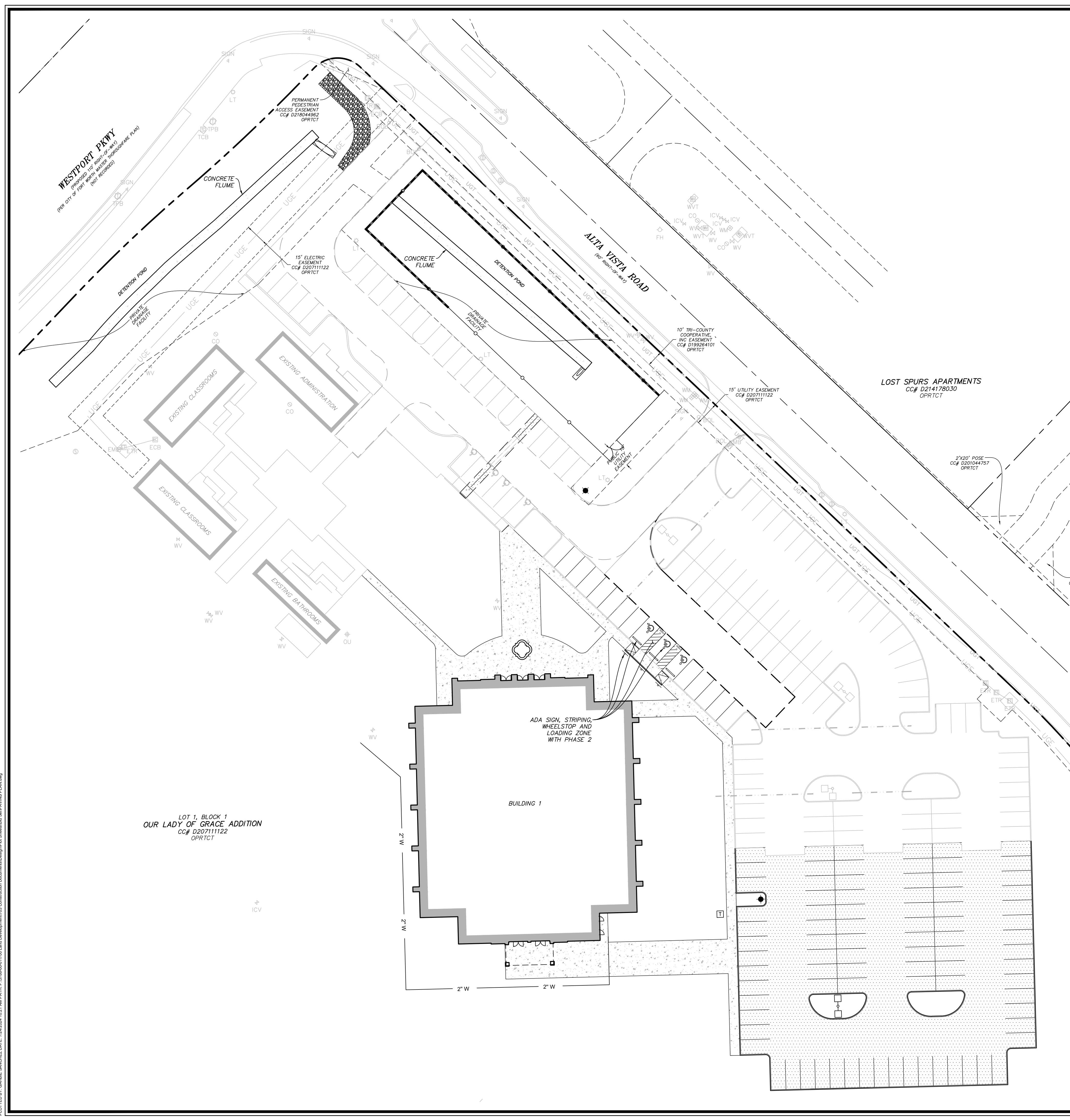
7/24/2024
STATE OF TEXAS
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151600
LICENSED PROFESSIONAL ENGINEER
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PROJECT MANAGER: R. CRONIN
DRAWN BY: G. SANCHEZ
CHECKED BY: V. ARRUDA
ISSUE DATE: 7/24/2024

REV.	DATE	DESCRIP.	BY

SHEET CONTENT:
DIMENSIONAL CONTROL PLAN

SHEET NO:
C4.0
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LEGEND:

- 4" - 3000 PSI CONCRETE SIDEWALK WITH #3 BARS @ 18" O.C.E.W. OVER 6" COMPACTED SUBGRADE TO 95% STANDARD PROCTOR DENSITY AT A MOISTURE CONTENT OF OPTIMUM MOISTURE UP TO 0% TO +4%
- 5" - 3600 PSI CONCRETE PAVEMENT WITH #3 BARS 18" O.C.E.W. OVER 6" COMPACTED SUBGRADE TO 95% STANDARD PROCTOR DENSITY (ASTM 698) WITH 0% TO +4% POINTS OF OPTIMUM MOISTURE CONTENT
- 7" - 4000 PSI CONCRETE PAVEMENT WITH #3 BARS 18" O.C.E.W. OVER 6" LIME COMPACTED SUBGRADE TO 95% STANDARD PROCTOR DENSITY (ASTM 698) WITH 0% TO +4% POINTS OF OPTIMUM MOISTURE CONTENT
- FIRE LANE (PER CITY OF FORT WORTH) - - - - -

PAVING NOTES:

1. THE PAVING CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADJUSTMENT OF WATER AND SANITARY SEWER APPURTENANCES IN ACCORDANCE WITH THE STANDARD DETAILS AND SPECIFICATIONS OF THE CITY OF FORT WORTH.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCING ANY CONSTRUCTION. NOTIFY ENGINEER OF ANY CONFLICTS OR DISCREPANCIES.
3. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS REQUIRED.
4. CONCRETE SURFACE FINISHING SHALL BE SKID RESISTANT, A WHITE PIGMENTED LIQUID CURING COMPOUND SHALL BE UNIFORMLY SPRAYED ON THE CONCRETE IMMEDIATELY AFTER THE FINISHED OPERATION.
5. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A TRAFFIC CONTROL PLAN FOR ALL WORK IN THE PUBLIC RIGHT-OF-WAY.
6. CONTRACTOR SHALL PROVIDE ALL SAFETY DEVICES FOR THE PROTECTION OF THE PUBLIC.
7. CONCRETE PAVEMENT AND STRUCTURES SHALL BE BACKFILLED AS SOON AS POSSIBLE AFTER FORMS ARE REMOVED.
8. CONTRACTOR RESPONSIBLE FOR IRRIGATION AND FRANCHISE UTILITY SLEEVING. REFERENCE IRRIGATION PLAN FOR IRRIGATION SLEEVING DETAILS.
9. CONTRACTOR TO PROVIDE JOINTING PLAN FOR REVIEW & APPROVAL BY ENGINEER.
10. CONTRACTOR IS RESPONSIBLE FOR ENSURING GRADES ON ALL WALKS DO NOT EXCEED 2% CROSS SLOPE AND 5% LONGITUDINAL SLOPE. ADJUST GRADES AS NECESSARY.

CONSTRUCTION JOINT NOTES:

DUMMY JOINTS SHALL BE ONE OF THE FOLLOWING METHODS: SAWED, HAND-FORMED OR FORMED BY PREMOLDED FILLER. JOINT DEPTH SHOULD BE EQUAL TO ONE-FOURTH (1/4) OF THE SLAB THICKNESS. HAND FORMED JOINTS SHOULD HAVE A MAXIMUM EDGE RADIUS OF ONE-FOURTH (1/4) INCH. SAWING OF JOINTS SHOULD BEGIN AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PERMIT SAWING AND AVOID RAVELING. ALL JOINTS SHOULD BE COMPLETED BEFORE UNCONTROLLED SHRINKAGE CRACKING OCCURS. JOINTS SHALL BE CONTINUOUS ACROSS THE SLAB UNLESS INTERRUPTED BY FULL-DEPTH PREMOLDED JOINT FILLER AND EXTENDED COMPLETELY THROUGH THE CURB. ALL JOINT OPENINGS SHALL BE CLEANED AND SEALED BEFORE OPENING PAVED AREA TO TRAFFIC.

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NOTES:

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CITY OF FORT WORTH STANDARDS AND SPECIFICATIONS, AND TO THE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION ISSUED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG).
2. TYPICAL PARKING STALL IS 18' LONG X 9' WIDE.
3. PARKING STALL LINE SHALL BE A 4" SOLID WHITE STRIPE.
4. ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
5. ALL CURB RADII ARE 3' UNLESS OTHERWISE NOTED.
6. ALL CURBS TO BE 6" HIGH UNLESS OTHERWISE NOTED.
7. REFER TO SHEET C11.0 FOR GENERAL NOTES.
8. REFER TO SHEET C11.0-C11.2 FOR PAVING DETAILS.
9. REFER TO SHEET C4.0 FOR ALL SITE DIMENSIONS.
10. REFER TO ARCHITECTURAL PLANS FOR ACTUAL BUILDING DIMENSIONS.
11. REFER TO ARCHITECTURE PLANS FOR ALL FENCING AND GATE SPECIFICATIONS.
12. FIRE LANES SHALL BE PROPERLY MARKED WITH A SIX INCH RED STRIPE WITH FOUR INCH WHITE LETTERS STATING "FIRE LANE NO PARKING" EVERY TWENTY-FIVE FEET ALONG THE ENTIRE LENGTH OF THE FIRE LANE. FIRE LANE MARKINGS SHALL BE ON THE VERTICAL SURFACE OF THE CURB WHEN A CURB IS PRESENT.
13. FIRE LANE ACCESS MUST BE COMPLETE AND FIRE HYDRANTS MUST BE APPROVED BY THE FIRE DEPARTMENT AND MUST BE IN-SERVICE PRIOR TO CONSTRUCTION PROGRESSING ABOVE FOUNDATION.
14. REFER TO PHOTOMETRIC PLAN FOR LIGHTING TYPE AND INTENSITY INFORMATION.
15. ALL UTILITIES, INCLUDING BUT NOT LIMITED TO ELECTRICAL, GAS, AND TELEPHONE SHALL BE PLACED UNDERGROUND.

LOT 1, BLOCK 1
 OUR LADY OF GRACE ADDITION
 CC# D20711122
 OPRCTCT

PLOTTED BY: GABRIEL SANCHEZ DATE: 7/24/2024 10:27 AM PATH: P:\2024\07\24\100 Lead Development\2024 Construction Documents\Drawings\Site\Sheet\Bldg_Paving_Plan.dwg

**ST. TERESA OF CALCUTTA CATHOLIC CHURCH
 FORT WORTH, TEXAS
 PAVING PLAN**

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7/24/2024
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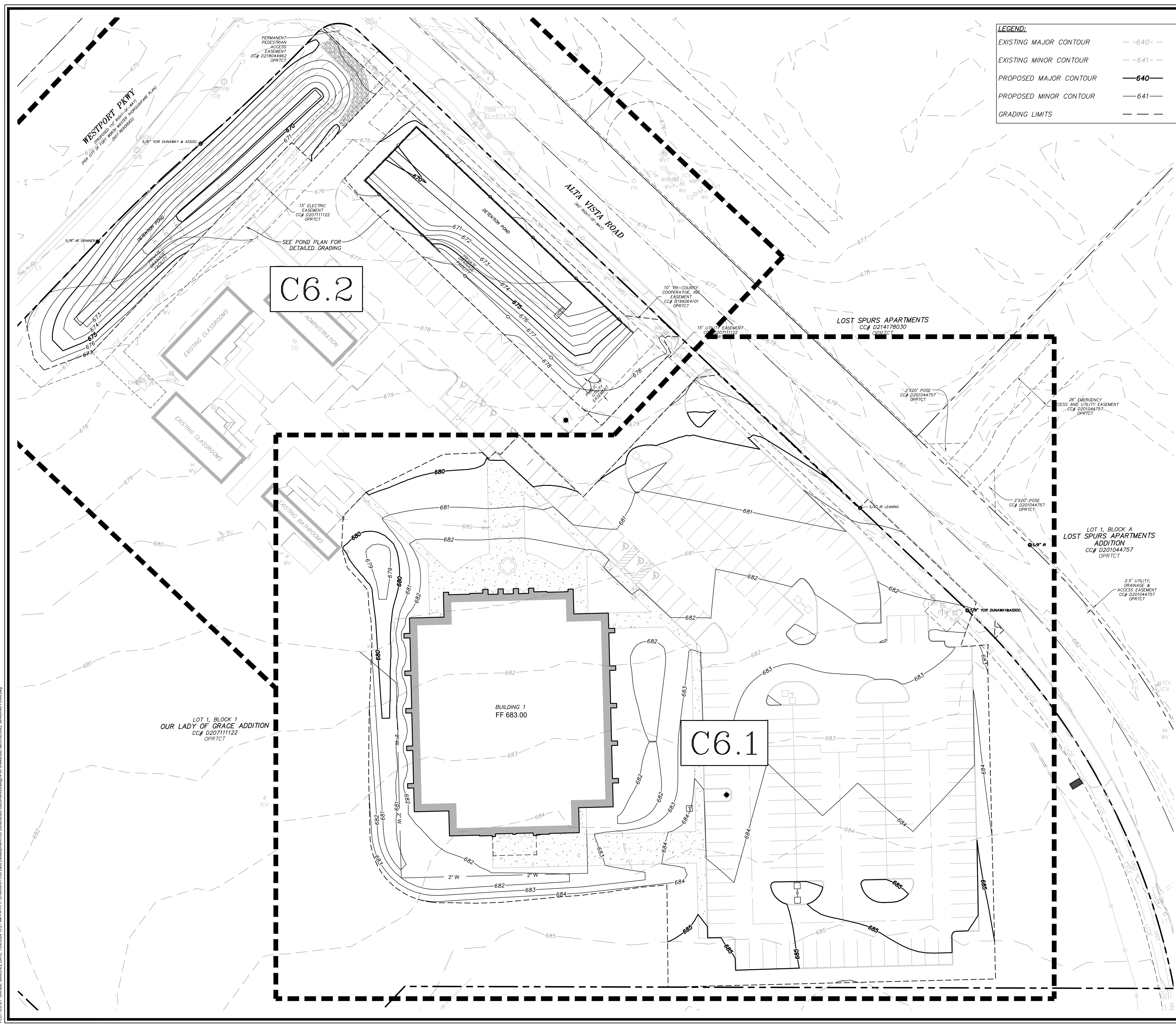
PROJECT NUMBER:	3788-00-01
PROJECT MANAGER:	R. CRONIN
DRAWN BY:	G. SANCHEZ
CHECKED BY:	V. ARRUDA
ISSUE DATE:	7/24/2024

REV.	DATE	DESCRIP.	BY

SHEET CONTENT:
PAVING PLAN

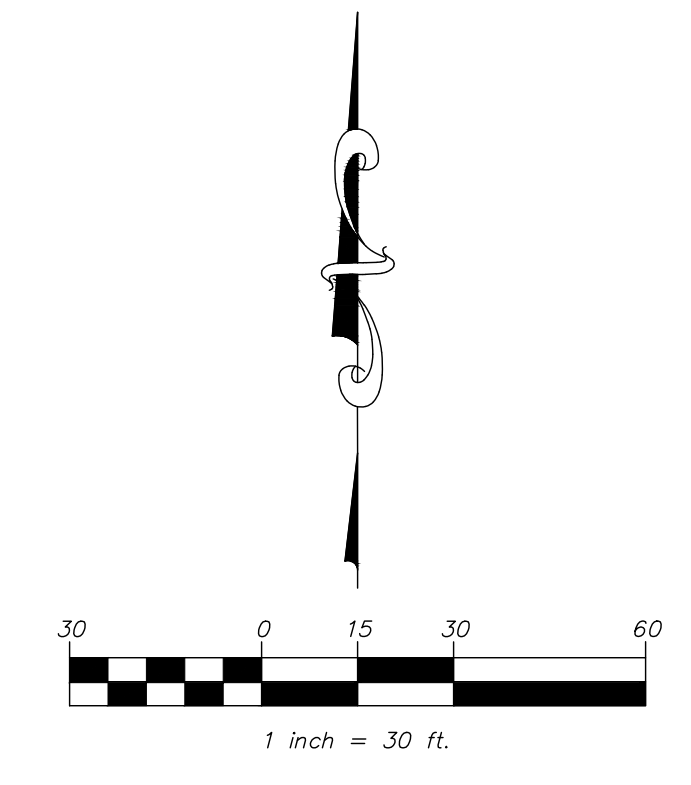
SHEET NO:
C5.0

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LEGEND:

EXISTING MAJOR CONTOUR	--640--
EXISTING MINOR CONTOUR	--641--
PROPOSED MAJOR CONTOUR	640
PROPOSED MINOR CONTOUR	641
GRADING LIMITS	---



- GRADING NOTES:**
- CLEARING AND GRUBBING SHALL CONSIST OF REMOVING ALL NATURAL AND ARTIFICIAL OBJECTIONABLE MATERIALS FROM THE PROJECT SITE.
 - ALL TREES, SHRUBS AND ALL SCRUB GROWTH SHALL BE CLEARED. ALL DEAD TREES, LOGS, STUMPS, RUBBISH OF ANY NATURE, AND OTHER SURFACE DEBRIS SHALL ALSO BE CLEARED.
 - THE CONTRACTOR WILL BE RESPONSIBLE FOR AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING CONSTRUCTION. THE CONTRACTOR SHALL, AT ALL TIMES, KEEP THE SITE OF THE WORK AND THE ADJACENT PREMISES AS FREE FROM MATERIAL, DEBRIS AND RUBBISH AS IS PRACTICABLE AND SHALL REMOVE SAME FROM ANY PORTION OF THE SITE.
 - UNSUITABLE MATERIAL, INCLUDING ALL ROCKS MEASURING LARGER THAN 6" IN THE LARGEST DIMENSION, REFUSE AND OTHER DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR. CONTRACTOR SHALL, ALSO, COMPLY WITH ALL APPLICABLE LAWS GOVERNING THE SPILLING OF DEBRIS WHILE TRANSPORTING TO A DISPOSAL SITE.
 - SIX (6") INCHES OF TOP SOIL SHALL BE PLACED ON ALL LANDSCAPE AREAS AND PARKING ISLANDS.
 - POSITIVE DRAINAGE AWAY FROM BUILDING FOUNDATION MUST BE PROVIDED. CONTRACTOR TO ENSURE THERE IS NO PONDING AROUND FOUNDATION.
 - THE GRADES SHOWN ON THIS PLAN ARE TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
 - SHOULD THE CONTRACTOR ENCOUNTER ANY UNUSUAL GEOLOGICAL CONDITIONS DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING SUPPLEMENTAL RECOMMENDATIONS.
 - TESTING IS REQUIRED AND SHALL BE PERFORMED BY A LABORATORY APPROVED BY THE ENGINEER/OWNER AND PAID FOR BY THE OWNER.
 - LIMIT CONSTRUCTION ACTIVITY TO IMPROVEMENT AREAS ONLY.
 - REFERENCE LANDSCAPE PLANS FOR TREE PROTECTION METHODS.
 - CONTRACTOR IS RESPONSIBLE FOR ENSURING GRADES ON ALL WALKS DO NOT EXCEED 2% CROSS SLOPE AND 5% LONGITUDINAL SLOPE. ADJUST GRADES AS NECESSARY.
 - CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS REQUIRED.

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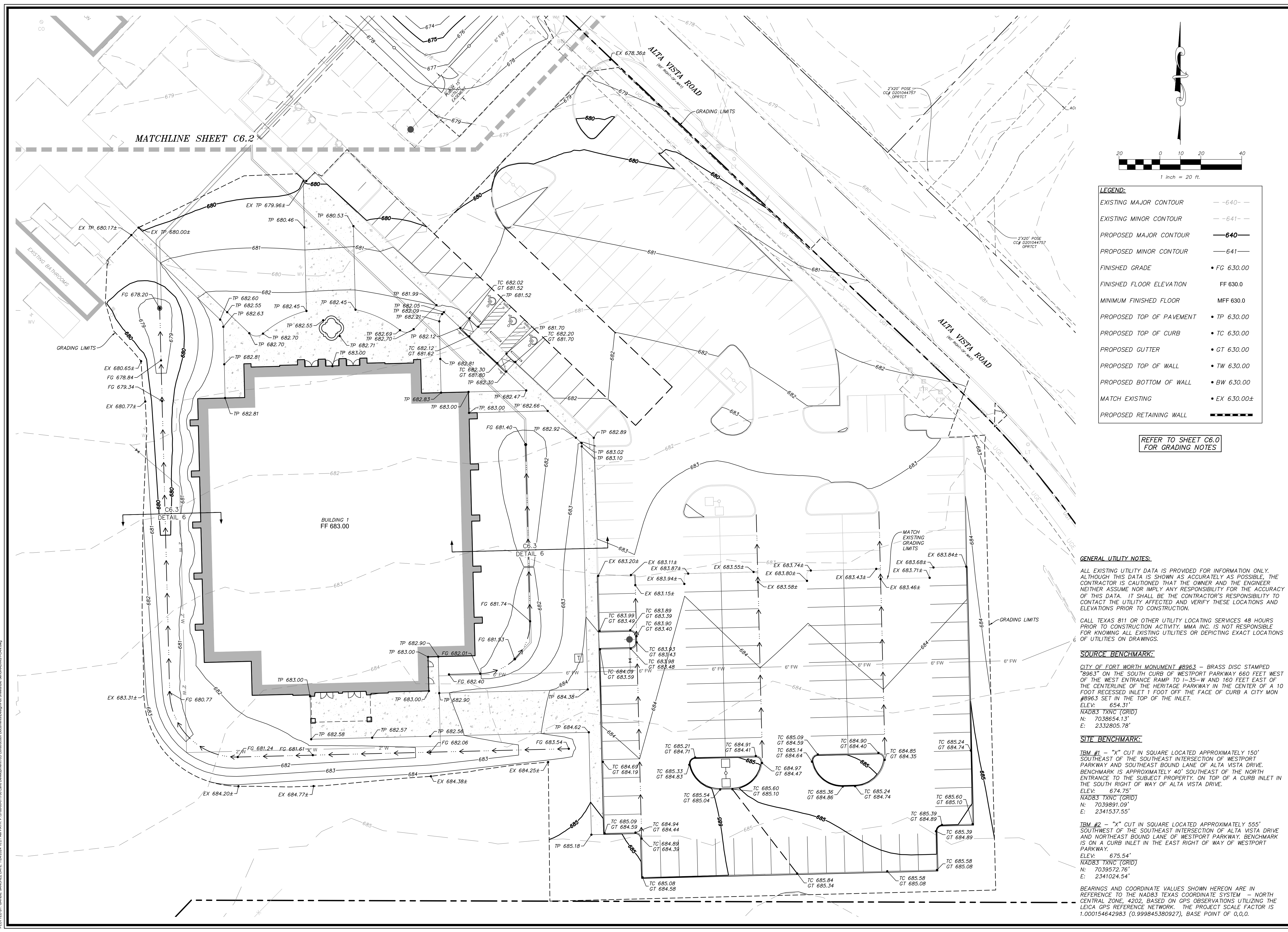
REV.	DATE	DESCRIP.	BY

SHEET CONTENT:
OVERALL GRADING PLAN

SHEET NO:
C6.0

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LEGEND:

EXISTING MAJOR CONTOUR	- - - 640 - - -
EXISTING MINOR CONTOUR	- - - 641 - - -
PROPOSED MAJOR CONTOUR	640
PROPOSED MINOR CONTOUR	641
FINISHED GRADE	• FG 630.00
FINISHED FLOOR ELEVATION	FF 630.0
MINIMUM FINISHED FLOOR	MFF 630.0
PROPOSED TOP OF PAVEMENT	• TP 630.00
PROPOSED TOP OF CURB	• TC 630.00
PROPOSED GUTTER	• GT 630.00
PROPOSED TOP OF WALL	• TW 630.00
PROPOSED BOTTOM OF WALL	• BW 630.00
MATCH EXISTING	• EX 630.00±
PROPOSED RETAINING WALL	— — — — —

REFER TO SHEET C6.0 FOR GRADING NOTES

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 E: 2341024.54'

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**ST. TERESA OF CALCUTTA CATHOLIC CHURCH
 FORT WORTH, TEXAS
 GRADING PLAN**

mma
 civil engineering surveying landscape architecture planning
 tpeles registration number: 1 - 2759
 tpeles registration/license number: 10088000
 519 east border
 arlington, texas 76010
 817-469-1671
 fax: 817-274-8757
 www.mmatus.com

7/24/2024
 STATE OF TEXAS
 VALERIE ARRUDA
 151600
 LICENSED PROFESSIONAL ENGINEER
FOR BID ONLY

PROJECT NUMBER:	3788-00-01
PROJECT MANAGER:	R. CRONIN
DRAWN BY:	G. SANCHEZ
CHECKED BY:	V. ARRUDA
ISSUE DATE:	7/24/2024

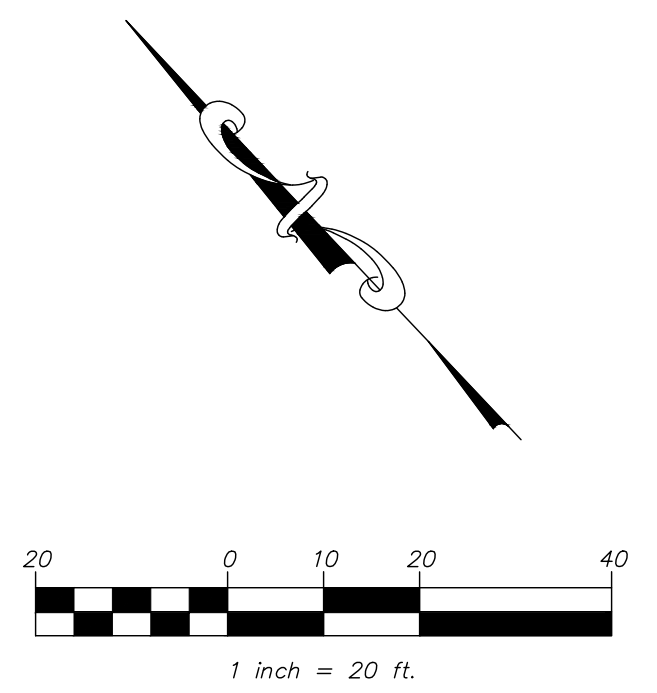
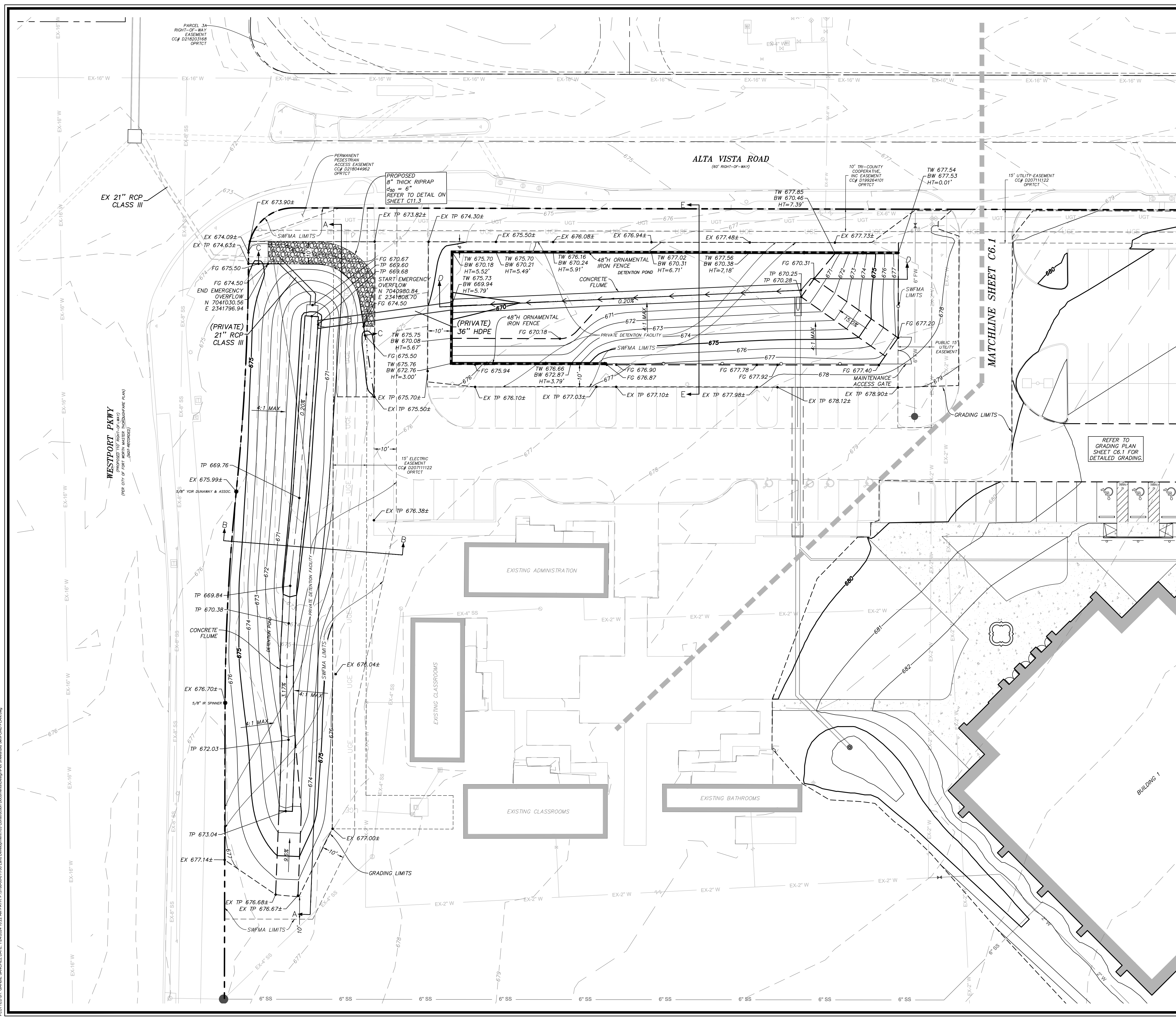
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SHEET CONTENT:
GRADING PLAN

SHEET NO:
C6.1

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LEGEND:

EXISTING MAJOR CONTOUR	- - - 640 - - -
EXISTING MINOR CONTOUR	- - - 641 - - -
PROPOSED MAJOR CONTOUR	640
PROPOSED MINOR CONTOUR	641
FINISHED GRADE	• FG 630.00
FINISHED FLOOR ELEVATION	FF 630.0
MINIMUM FINISHED FLOOR	MFF 630.0
PROPOSED TOP OF PAVEMENT	• TP 630.00
PROPOSED TOP OF CURB	• TC 630.00
PROPOSED GUTTER	• GT 630.00
PROPOSED TOP OF WALL	• TW 630.00
PROPOSED BOTTOM OF WALL	• BW 630.00
MATCH EXISTING	• EX 630.00±
PROPOSED RETAINING WALL	— — — — —

REFER TO SHEET C6.0 FOR GRADING NOTES

NOTES:
 1. POND DESIGNED USING SCS METHOD IN HEC-HMS AND AUTODESK HYDROGRAPHS. REFER TO ST. TERESA OF CALCUTTA CATHOLIC CHURCH DRAINAGE STUDY FOR DETAILED POND ANALYSIS.

GENERAL UTILITY NOTES:
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SOURCE BENCHMARK:
 CITY OF FORT WORTH MONUMENT #8963 - BRASS DISC STAMPED "8963" ON THE SOUTH CURB OF WESTPORT PARKWAY 660 FEET WEST OF THE WEST ENTRANCE RAMP TO I-35-W AND 160 FEET EAST OF THE CENTERLINE OF THE HERITAGE PARKWAY IN THE CENTER OF A 10 FOOT RECESSED INLET 1 FOOT OFF THE FACE OF CURB A CITY MON #8963 SET IN THE TOP OF THE INLET.
 ELEV: 654.31'
 NAD83 TXNC (GRID)
 N: 7038654.13'
 E: 2332805.78'

SITE BENCHMARK:
TBM #1 - "X" CUT IN SQUARE LOCATED APPROXIMATELY 150' SOUTHWEST OF THE SOUTHEAST INTERSECTION OF WESTPORT PARKWAY AND SOUTHEAST BOUND LANE OF ALTA VISTA DRIVE. BENCHMARK IS APPROXIMATELY 40' SOUTHWEST OF THE NORTH ENTRANCE TO THE SUBJECT PROPERTY, ON TOP OF A CURB INLET IN THE SOUTH RIGHT OF WAY OF ALTA VISTA DRIVE.
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 NAD83 TXNC (GRID)
 N: 7039891.09'
 E: 2341537.55'
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 E: 2341024.54'

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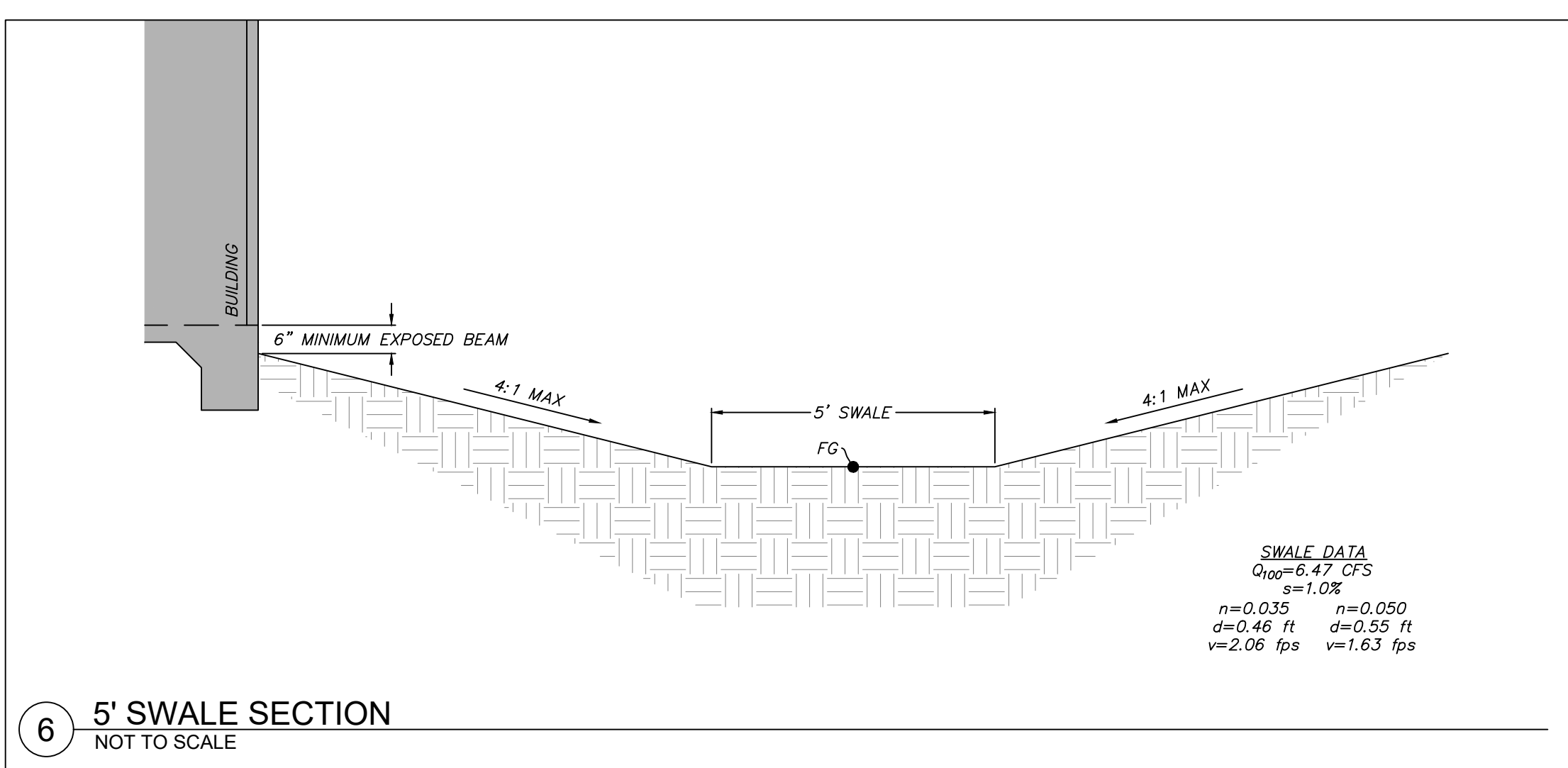
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ISSUE DATE:	7/24/2024

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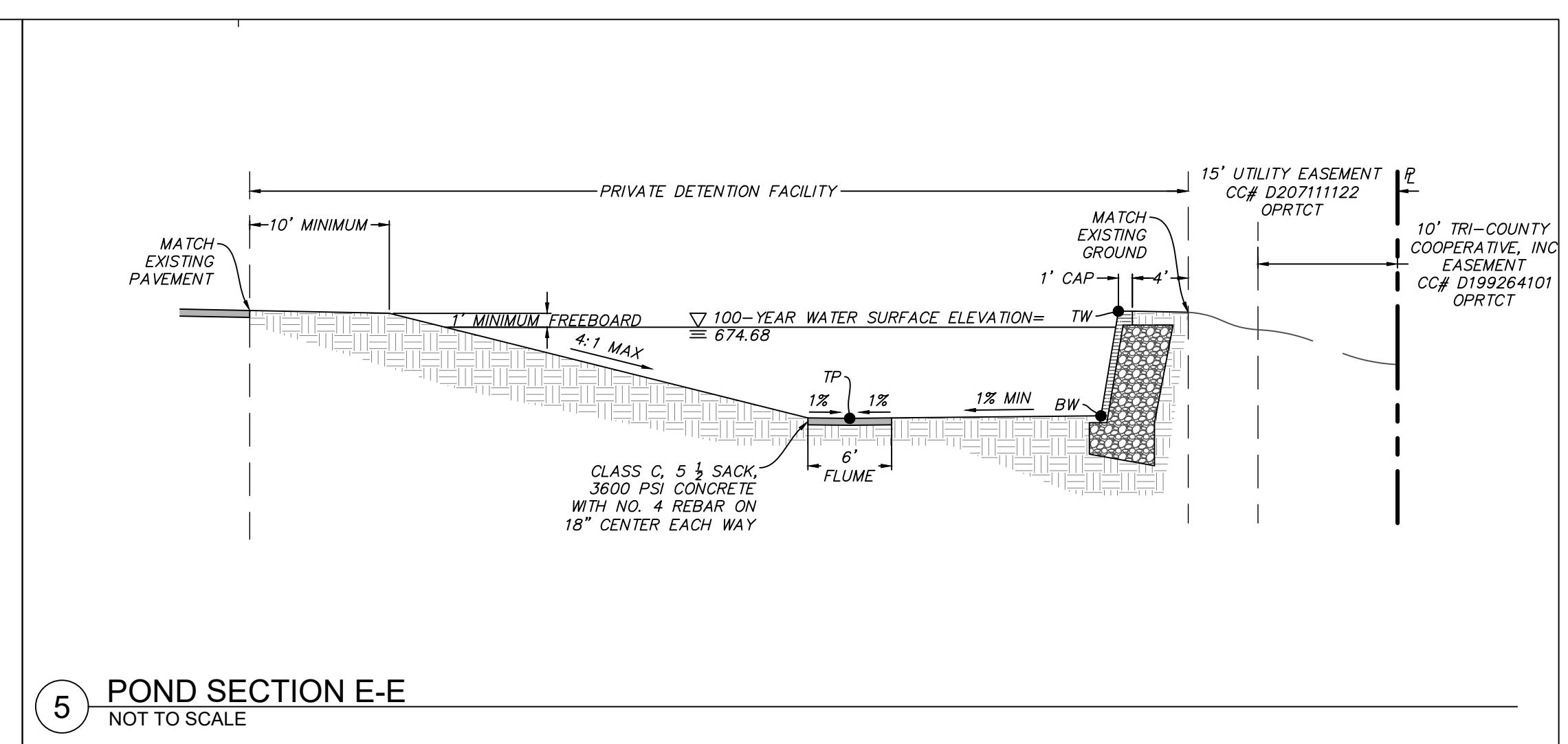
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GRADING PLAN
 SHEET NO:
C6.2
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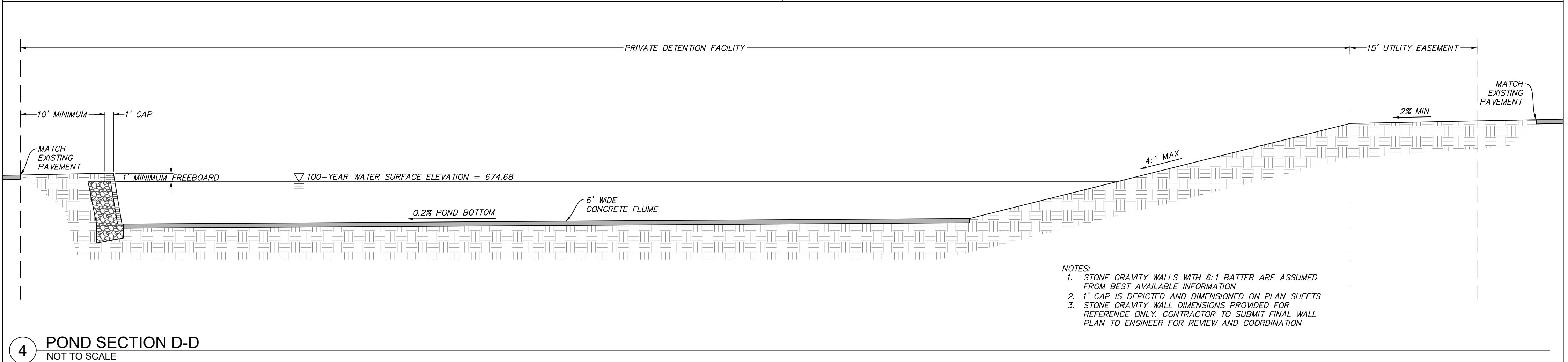
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FORT WORTH, TEXAS
GRADING SECTIONS**



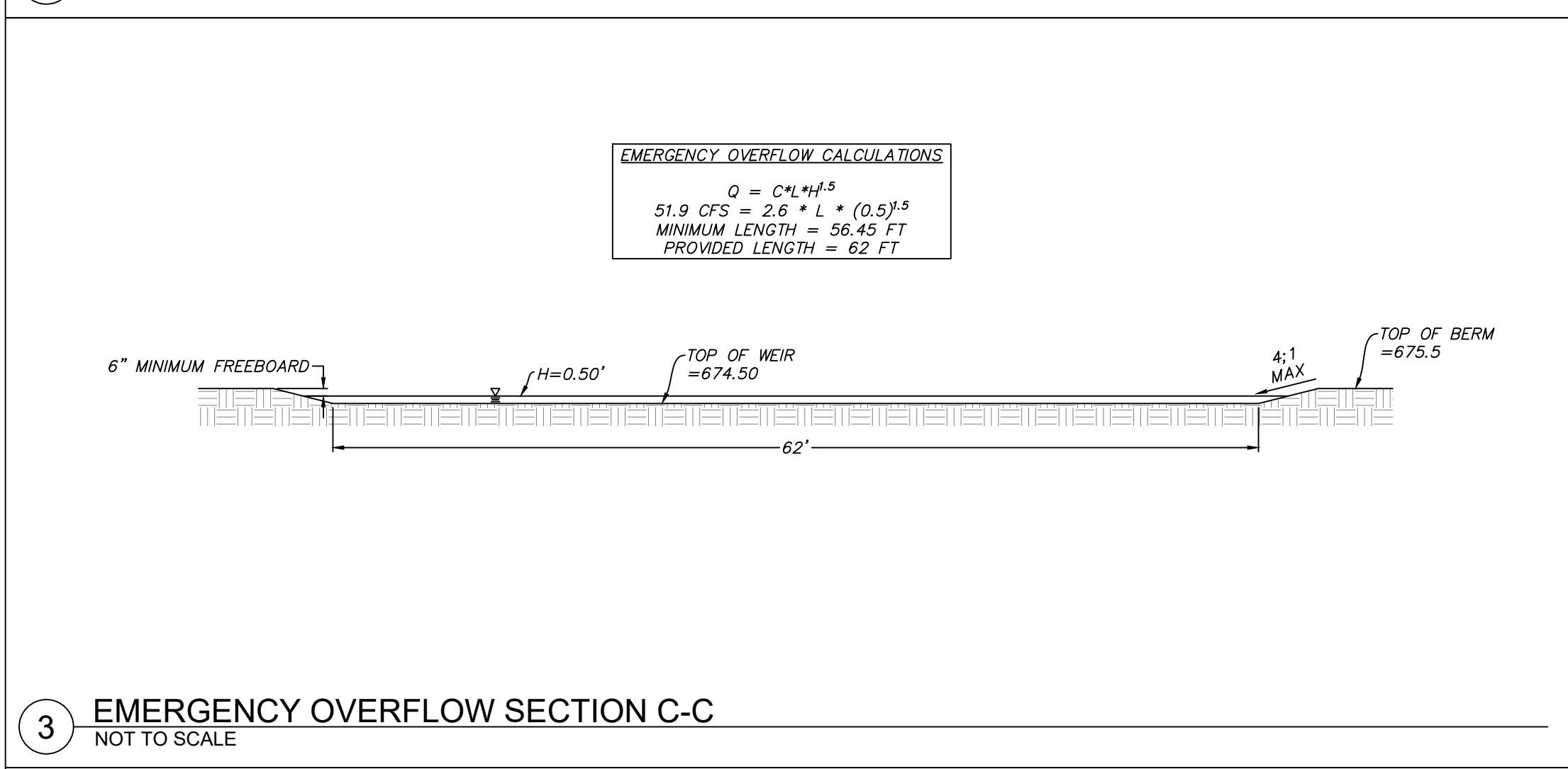
6 5' SWALE SECTION
NOT TO SCALE



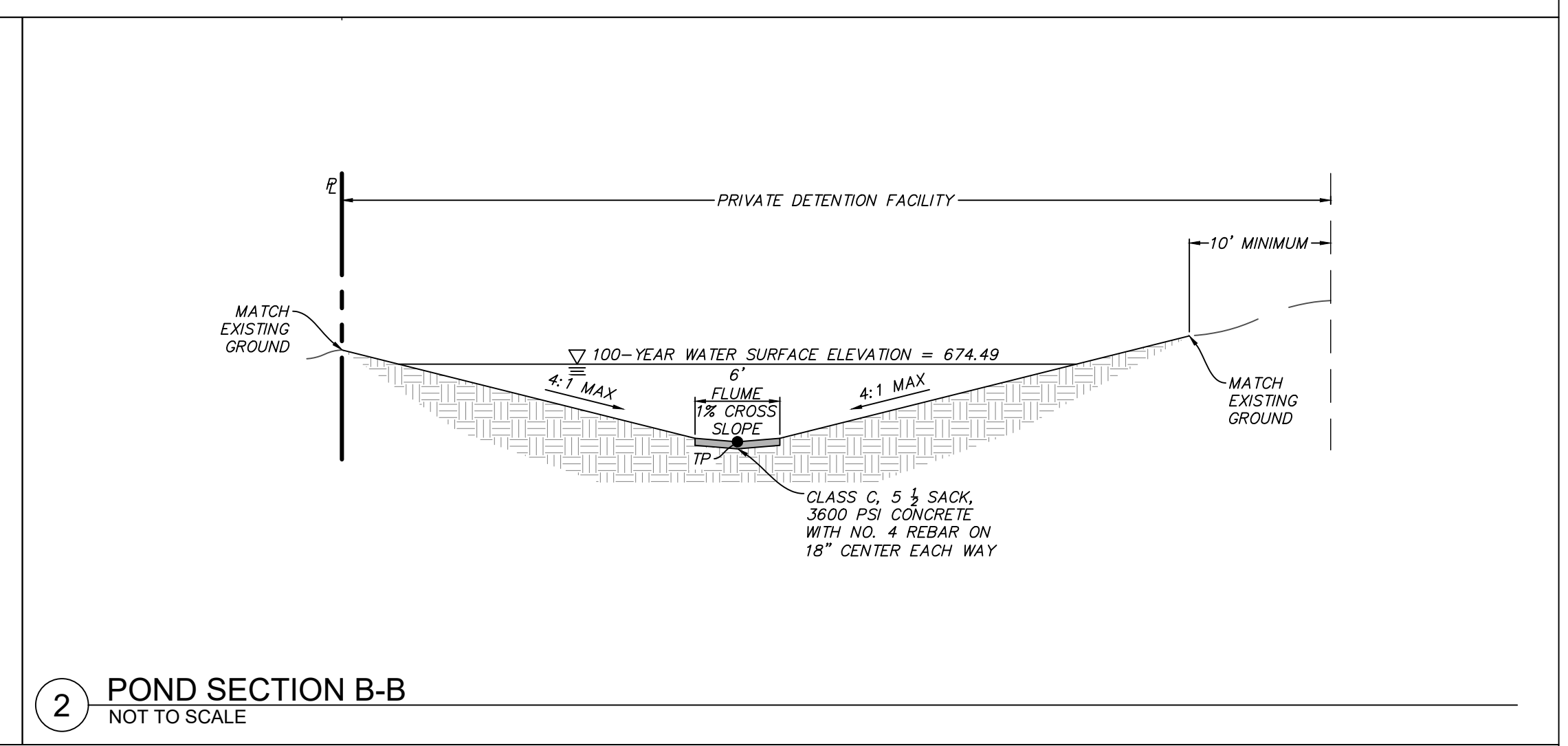
5 POND SECTION E-E
NOT TO SCALE



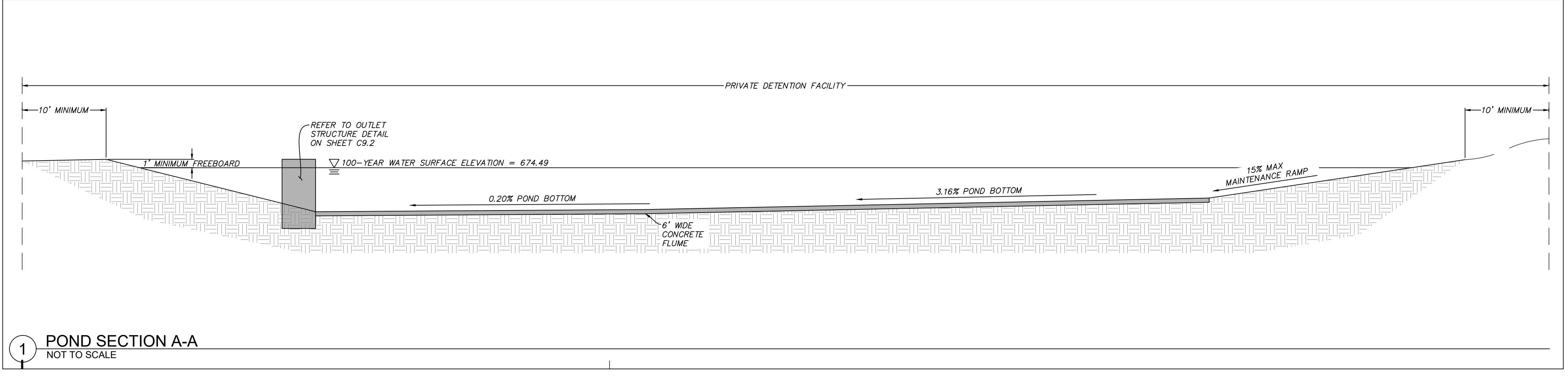
4 POND SECTION D-D
NOT TO SCALE



3 EMERGENCY OVERFLOW SECTION C-C
NOT TO SCALE



2 POND SECTION B-B
NOT TO SCALE



1 POND SECTION A-A
NOT TO SCALE

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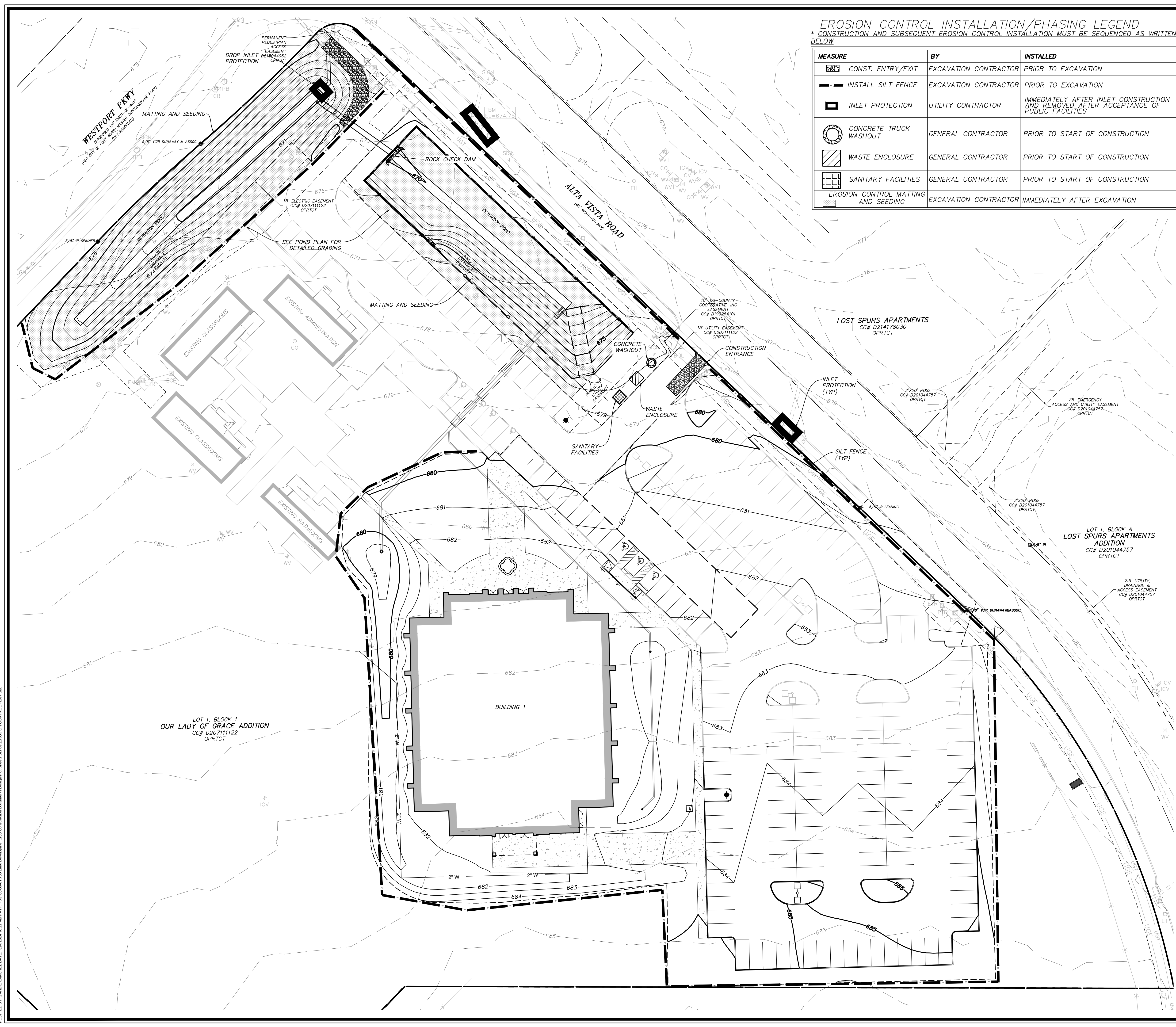
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ISSUE DATE: 7/24/2024

REV.	DATE	DESCRIP.	BY

SHEET CONTENT:
GRADING SECTIONS

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EROSION CONTROL INSTALLATION/PHASING LEGEND
 * CONSTRUCTION AND SUBSEQUENT EROSION CONTROL INSTALLATION MUST BE SEQUENCED AS WRITTEN BELOW

MEASURE	BY	INSTALLED
CONST. ENTRY/EXIT	EXCAVATION CONTRACTOR	PRIOR TO EXCAVATION
INSTALL SILT FENCE	EXCAVATION CONTRACTOR	PRIOR TO EXCAVATION
INLET PROTECTION	UTILITY CONTRACTOR	IMMEDIATELY AFTER INLET CONSTRUCTION AND REMOVED AFTER ACCEPTANCE OF PUBLIC FACILITIES
CONCRETE TRUCK WASHOUT	GENERAL CONTRACTOR	PRIOR TO START OF CONSTRUCTION
WASTE ENCLOSURE	GENERAL CONTRACTOR	PRIOR TO START OF CONSTRUCTION
SANITARY FACILITIES	GENERAL CONTRACTOR	PRIOR TO START OF CONSTRUCTION
EROSION CONTROL MATTING AND SEEDING	EXCAVATION CONTRACTOR	IMMEDIATELY AFTER EXCAVATION

EROSION CONTROL NOTES

- OWNER: MARTSOLF ARCHITECTURE
815 WEST BAGGET AVENUE
FORT WORTH, TX 76104
CONTACT: SCOTT MARTSOLF, AIA
EMAIL: SCOTT@MARTSOLFARCH.COM
- PERIMETER EROSION CONTROL MEASURES MUST BE IN PLACE BEFORE STARTING ANY SOIL DISTURBING ACTIVITIES.
- STREET EXCAVATION TO BE PERFORMED AND EROSION CONTROL MEASURES IN PLACE BEFORE GRUBBING/LOT GRADING.
- SEDIMENT DISCHARGED OR TRACKED ON TO EXISTING PAVEMENT SHALL BE REMOVED DAILY.
- CONTRACTOR IS TO CONTAIN ALL RUNOFF FROM MATERIALS USED IN THE SUBGRADE STABILIZATION PROCESS.
- RETAIN FLOATABLE AND WIND BLOWN MATERIALS ON SITE BY STORING ALL TRASH AND BUILDING MATERIAL WASTE IN ENCLOSURES UNTIL PROPER DISPOSAL AT OFF-SITE FACILITIES. CHECK ADJACENT AREAS DAILY AND PICK UP CONSTRUCTION WASTE MATERIALS AND DEBRIS THAT HAVE BLOWN OR WASHED OFF SITE.
- PAVING CONTRACTOR TO INSTALL A PIT FOR TEMPORARY ON-SITE DISPOSAL OF CONCRETE WASTE FROM MIXING DRUMS AND CHUTES.
- INSPECT POLLUTION CONTROL MEASURES EVERY TWO WEEKS AND WITHIN 24 HOURS AFTER A STORM EVENT OF 1/2" OR MORE. REPAIR OR REPLACE DAMAGED MEASURES TO RETAIN SEDIMENT AND OTHER POLLUTANTS ON SITE. REPEATED FAILURE OF A CONTROL MEASURE REQUIRES INSTALLATION OF A MORE SUITABLE DEVICE TO PREVENT DISCHARGE OF POLLUTANTS.
- PERMANENTLY STABILIZE EXPOSED SOIL WITHIN AND ADJACENT TO THE SITE THAT IS DISTURBED BY VEHICLES, GRADING AND OTHER CONSTRUCTION ACTIVITIES. STABILIZATION IS OBTAINED WHEN THE SOIL IS COVERED BY A COMBINATION OF STRUCTURES, PAVING, AND PERENNIAL VEGETATION.
- INSTALL A LIQUID TIGHT BERMED AREA (LINER REQUIRED), OR OTHER SPILL PROTECTION MEASURE PER THE FIRE CODE, FOR ANY TEMPORARY FUEL TANKS PLACED ON SITE DURING CONSTRUCTION.
- ALL CONTRACTORS TO MAINTAIN EXISTING EROSION CONTROL MEASURES IN PLACE.
- CONSTRUCTION ENTRANCE/EXIT TO BE LOCATED BY GRADING CONTRACTOR AND APPROVED BY OWNER.
- ALL GRADING TO CONFORM TO THE APPROVED GRADING PLAN FOR ST. TERESA OF CALCUTTA CATHOLIC CHURCH.
- EROSION CONTROL MEASURES MAY ONLY BE PLACED IN FRONT OF INLETS OR IN CHANNELS, DRAINAGEWAYS OR BORROW DITCHES AT RISK OF CONTRACTOR. CONTRACTOR SHALL REMAIN LIABLE FOR ANY DAMAGE CAUSED BY THE MEASURES, INCLUDING FLOODING DAMAGE, WHICH MAY OCCUR DUE TO BLOCKED DRAINAGE. AT THE CONCLUSION OF ANY PROJECT, ALL CHANNELS, DRAINAGEWAYS AND BORROW DITCHES IN THE WORK ZONE SHALL BE DROPPED OF ANY SEDIMENT GENERATED BY THE PROJECT OR DEPOSITED AS A RESULT OF EROSION CONTROL MEASURES.
- SEE LANDSCAPE PLAN FOR SOD LOCATIONS.
- TOTAL DISTURBED AREA = 3,740 AC.

GENERAL UTILITY NOTES:

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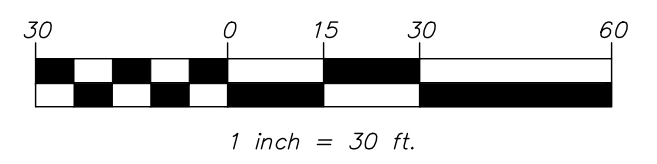
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 EROSION CONTROL PLAN**

mma
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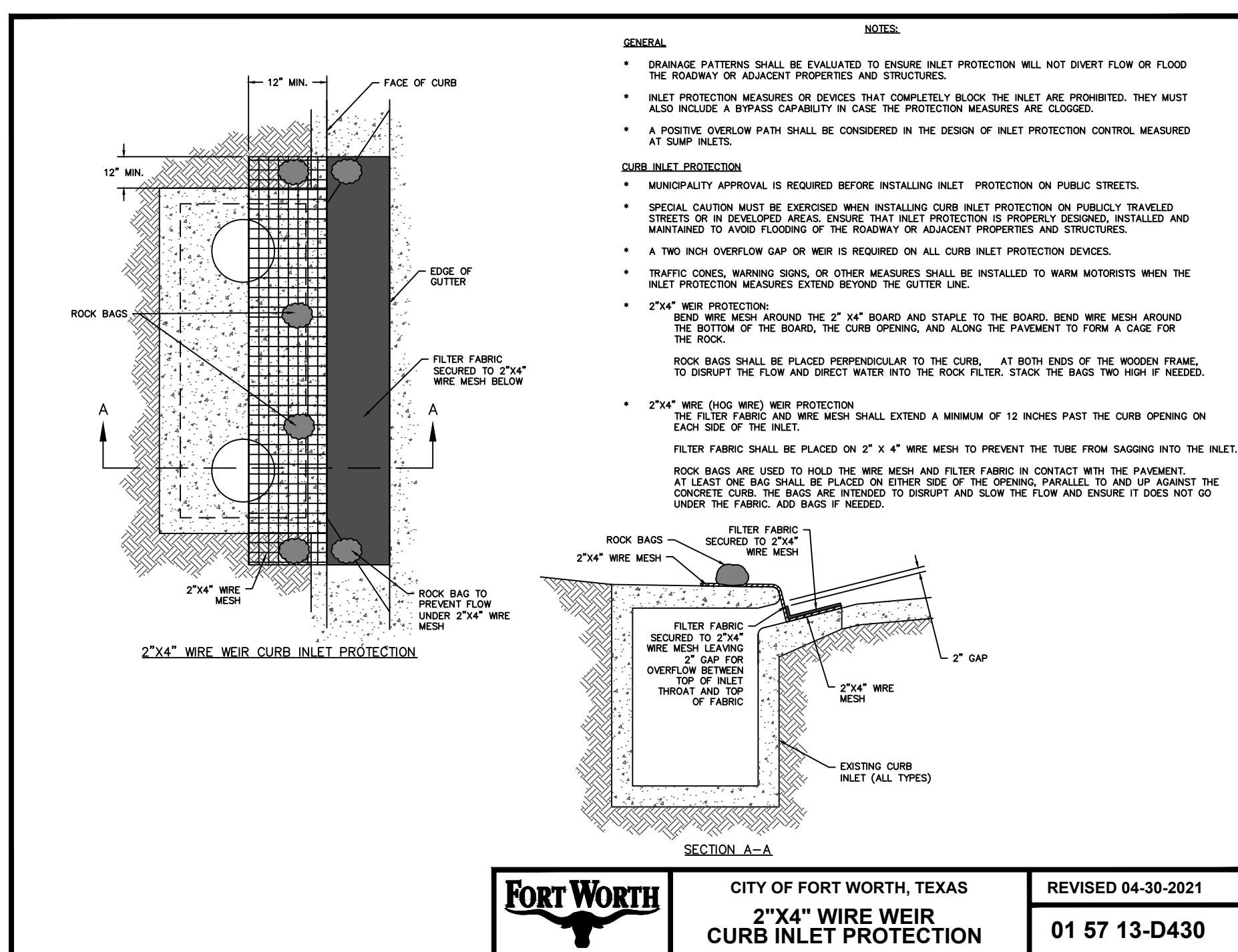
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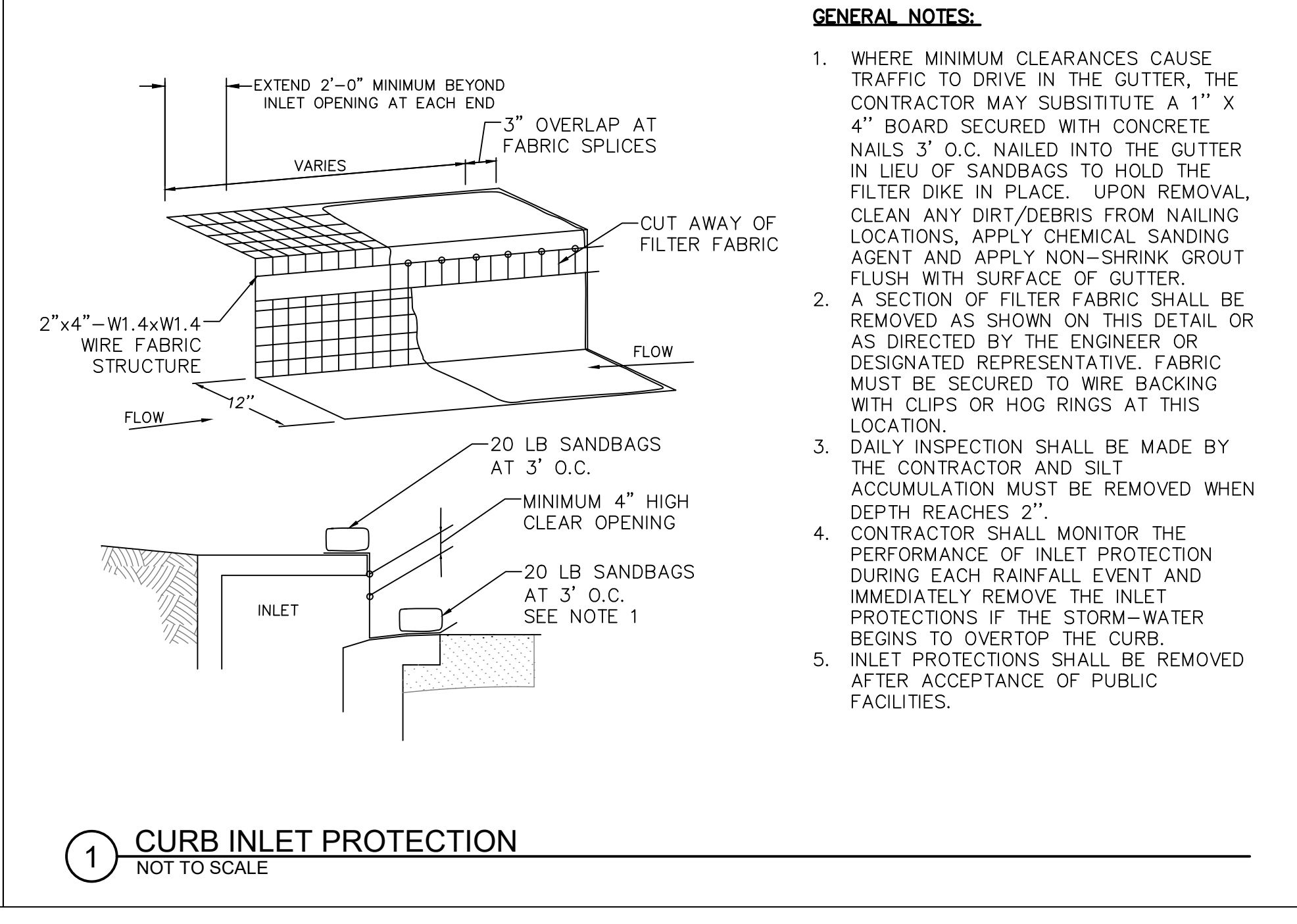
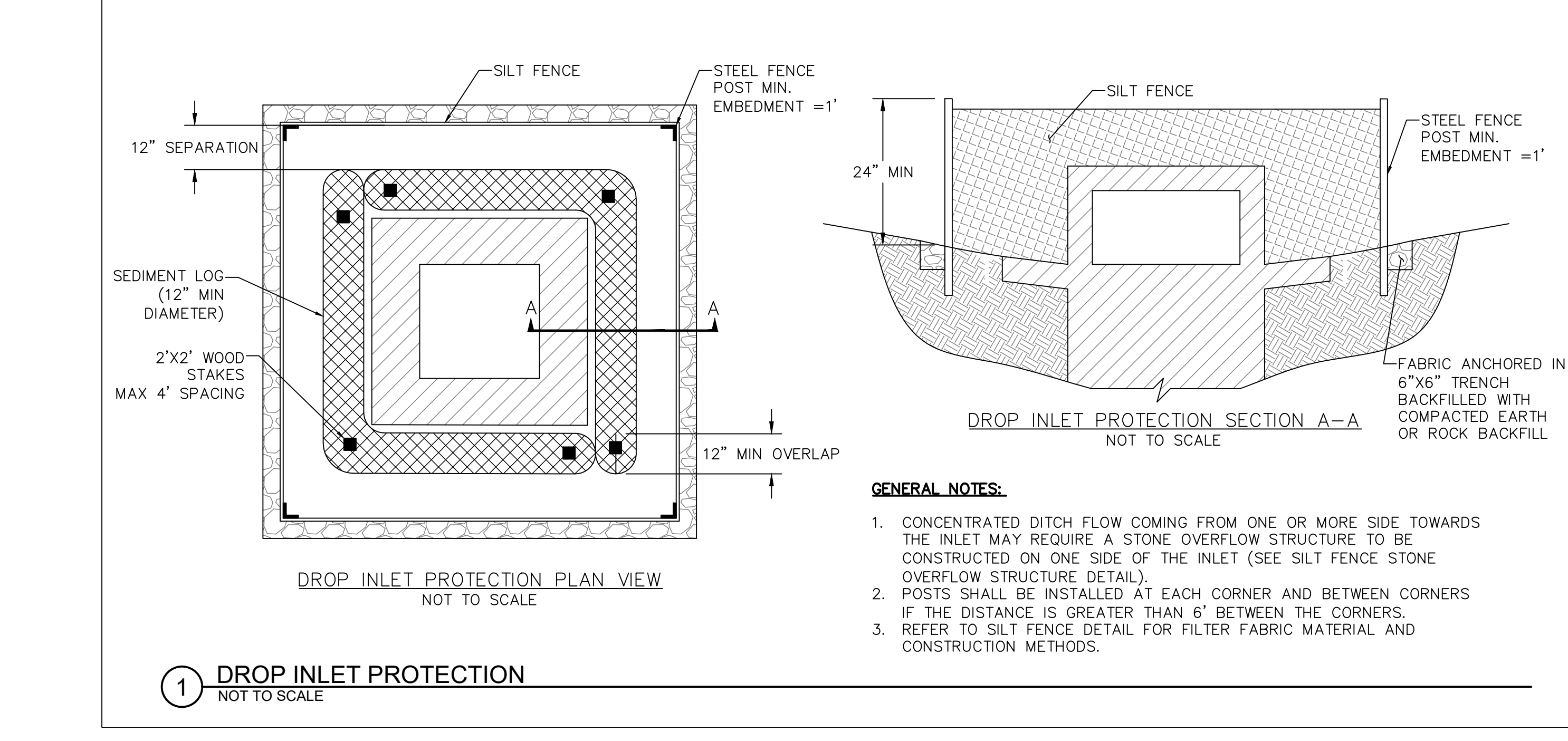
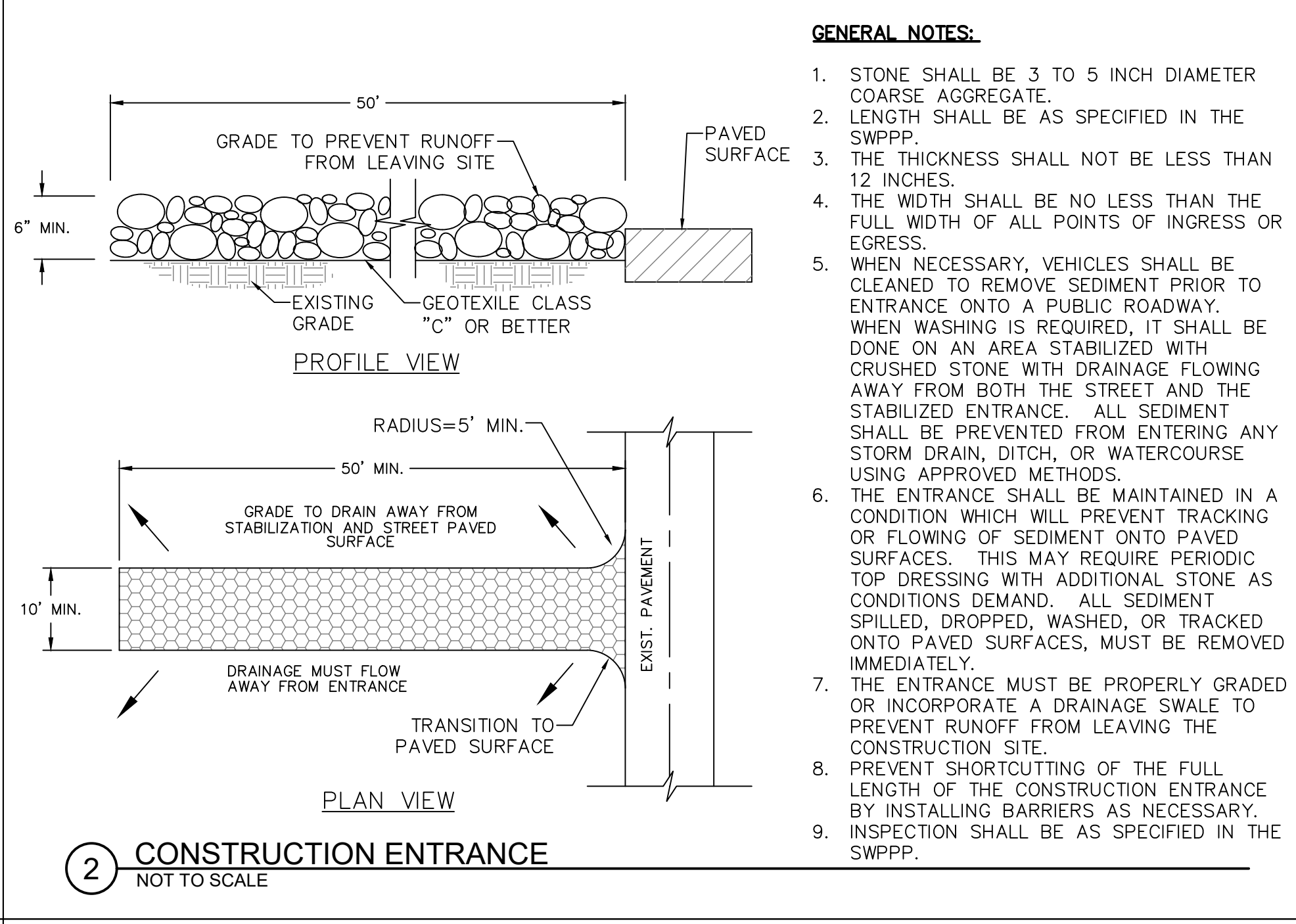
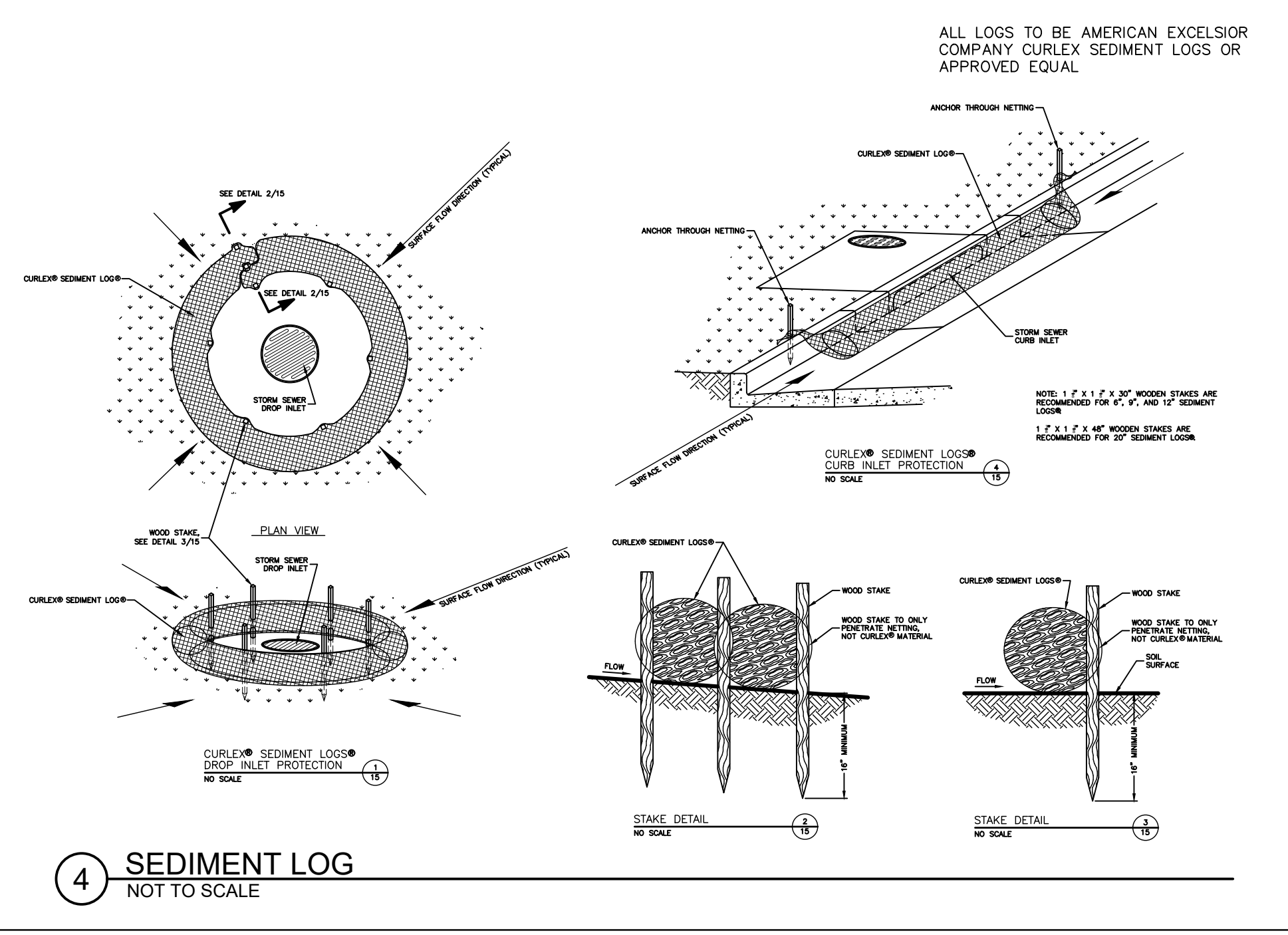
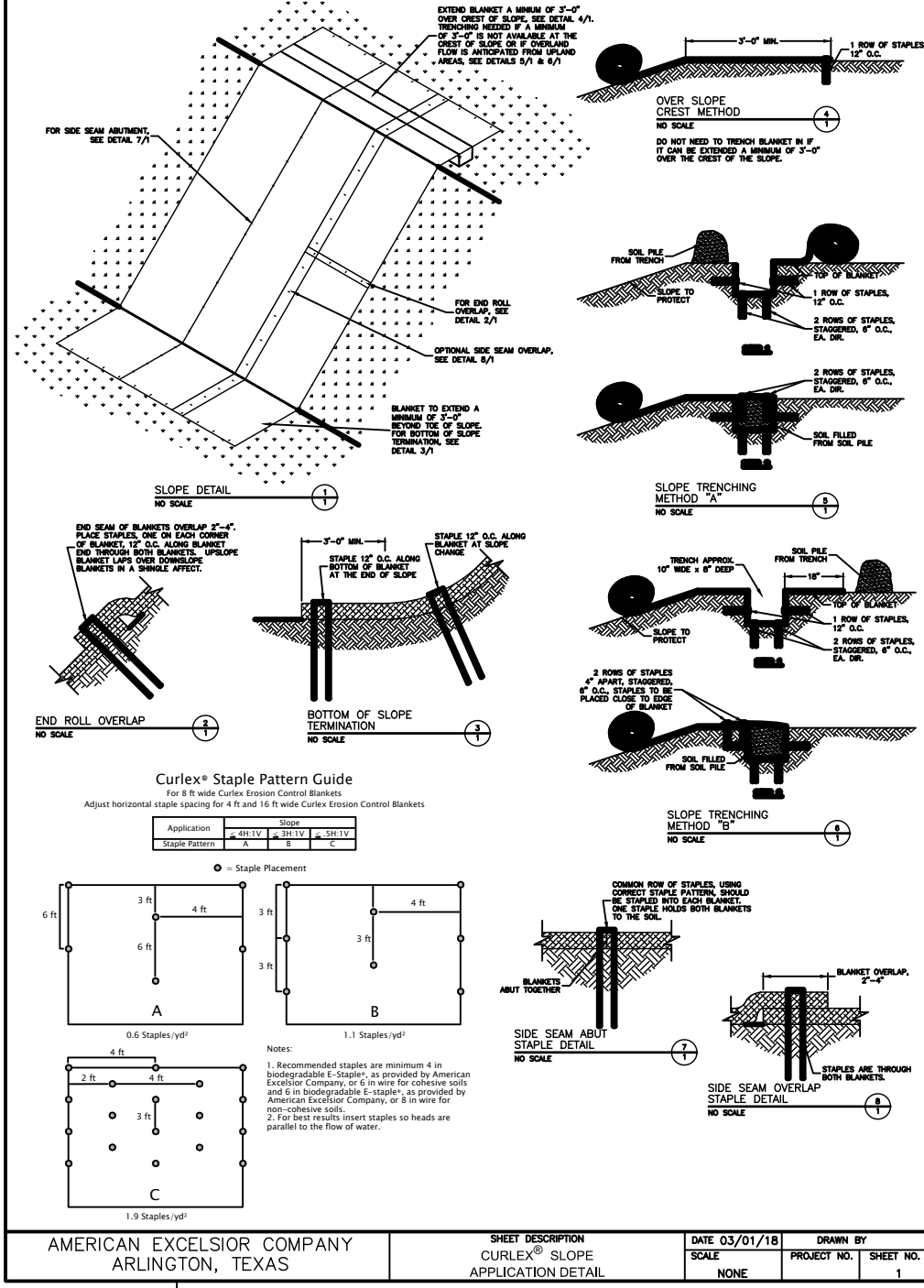
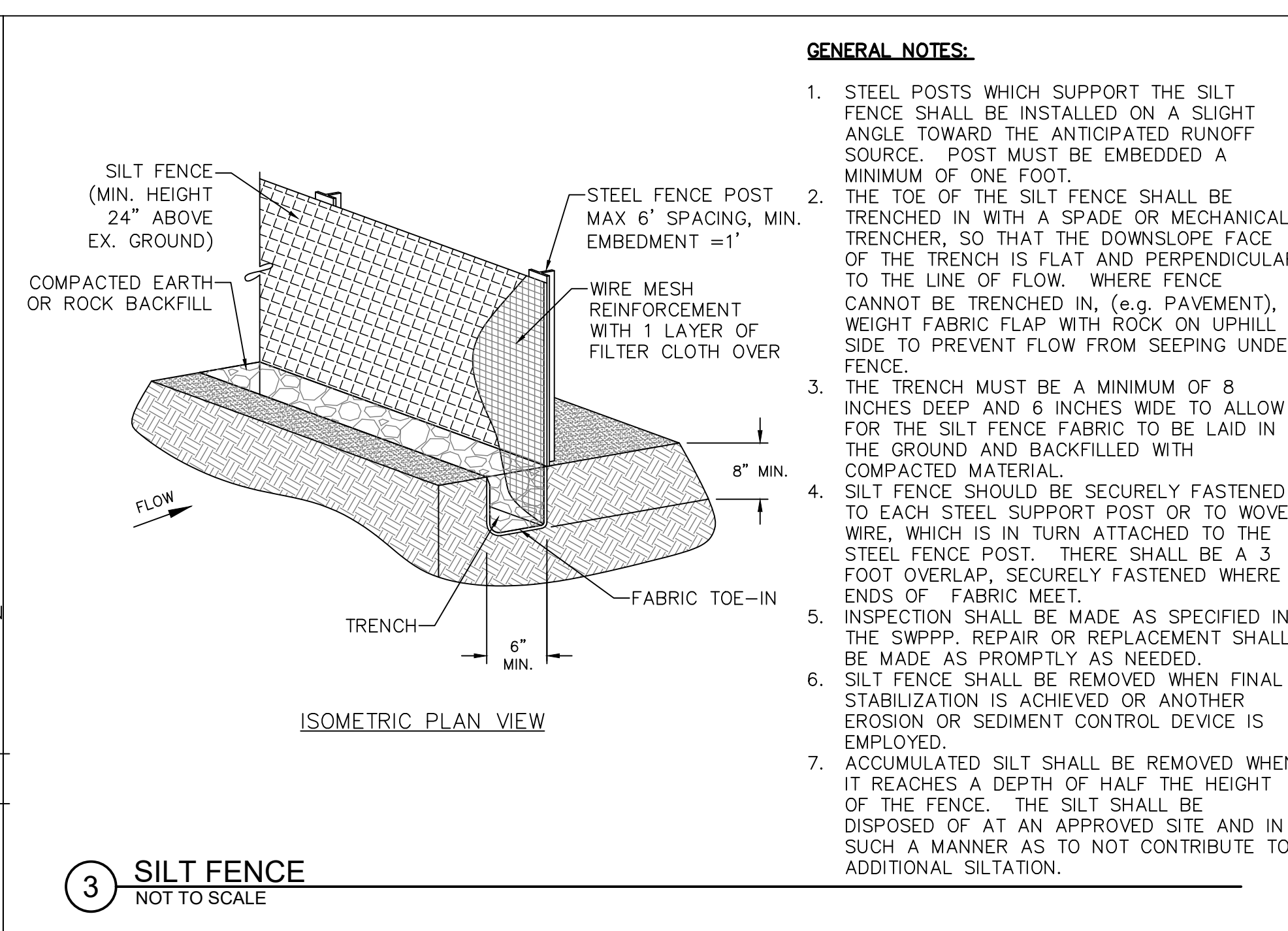
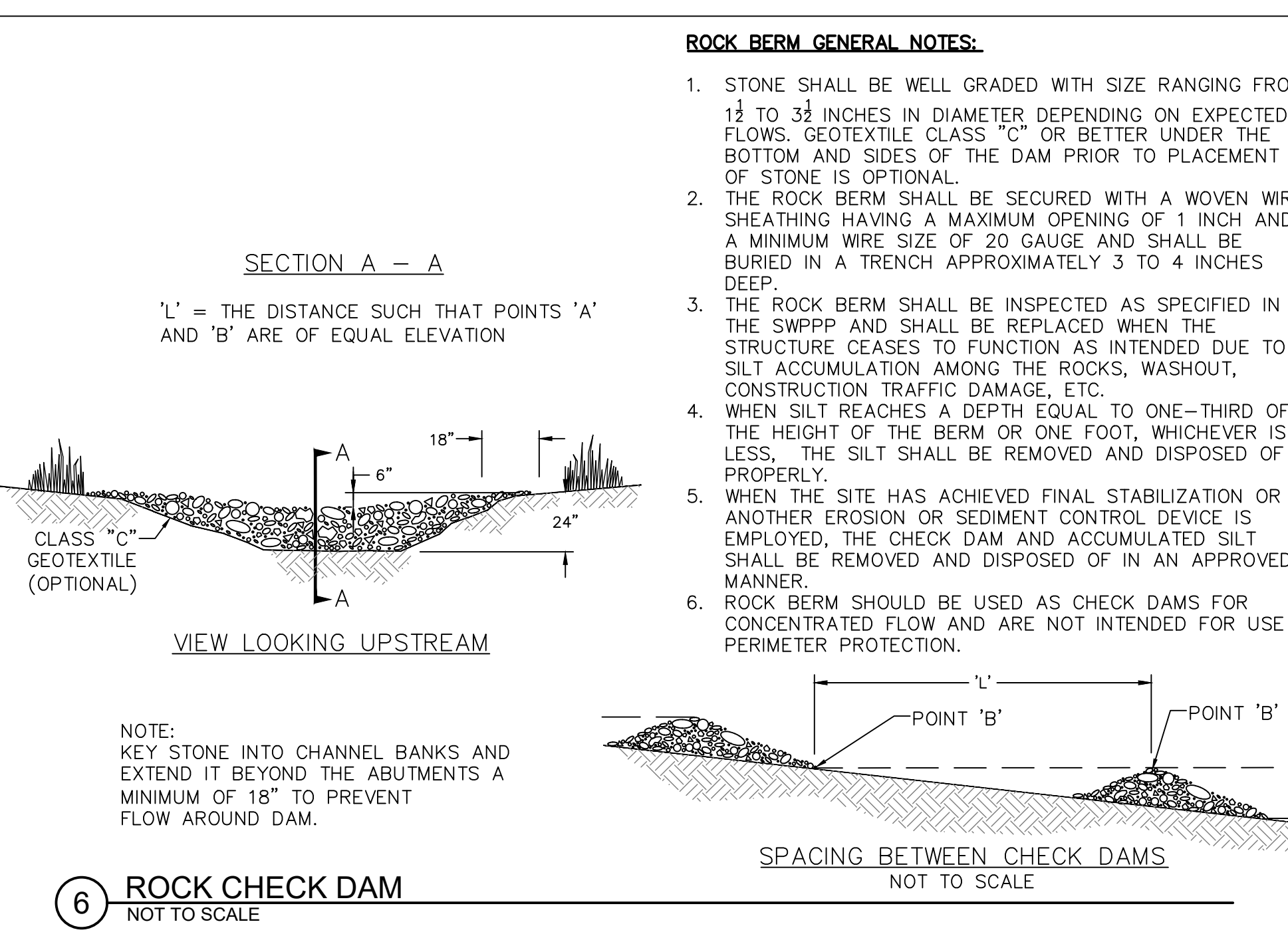
EROSION CONTROL PLAN

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FORT WORTH CITY OF FORT WORTH, TEXAS
2"x4" WIRE WEIR CURB INLET PROTECTION
REVISED 04-30-2021
01 57 13-D430



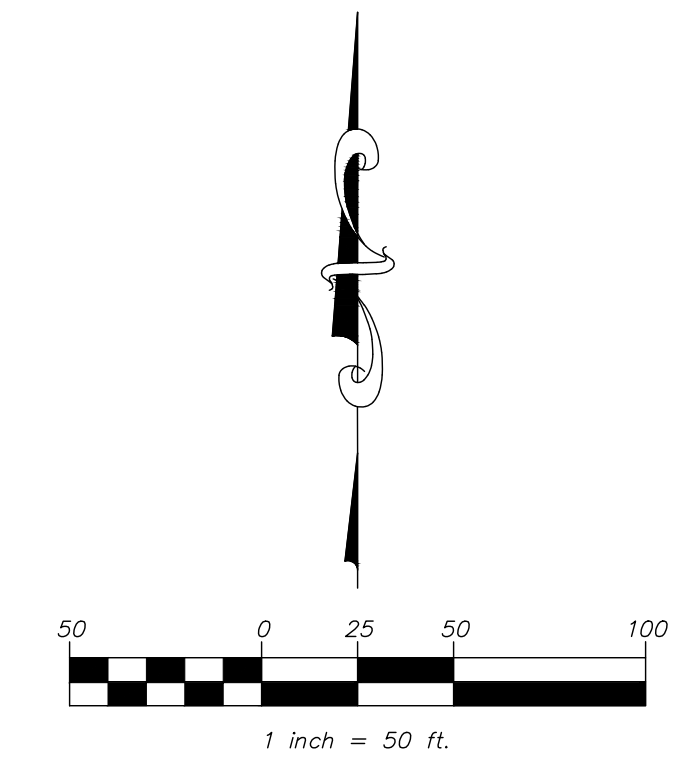
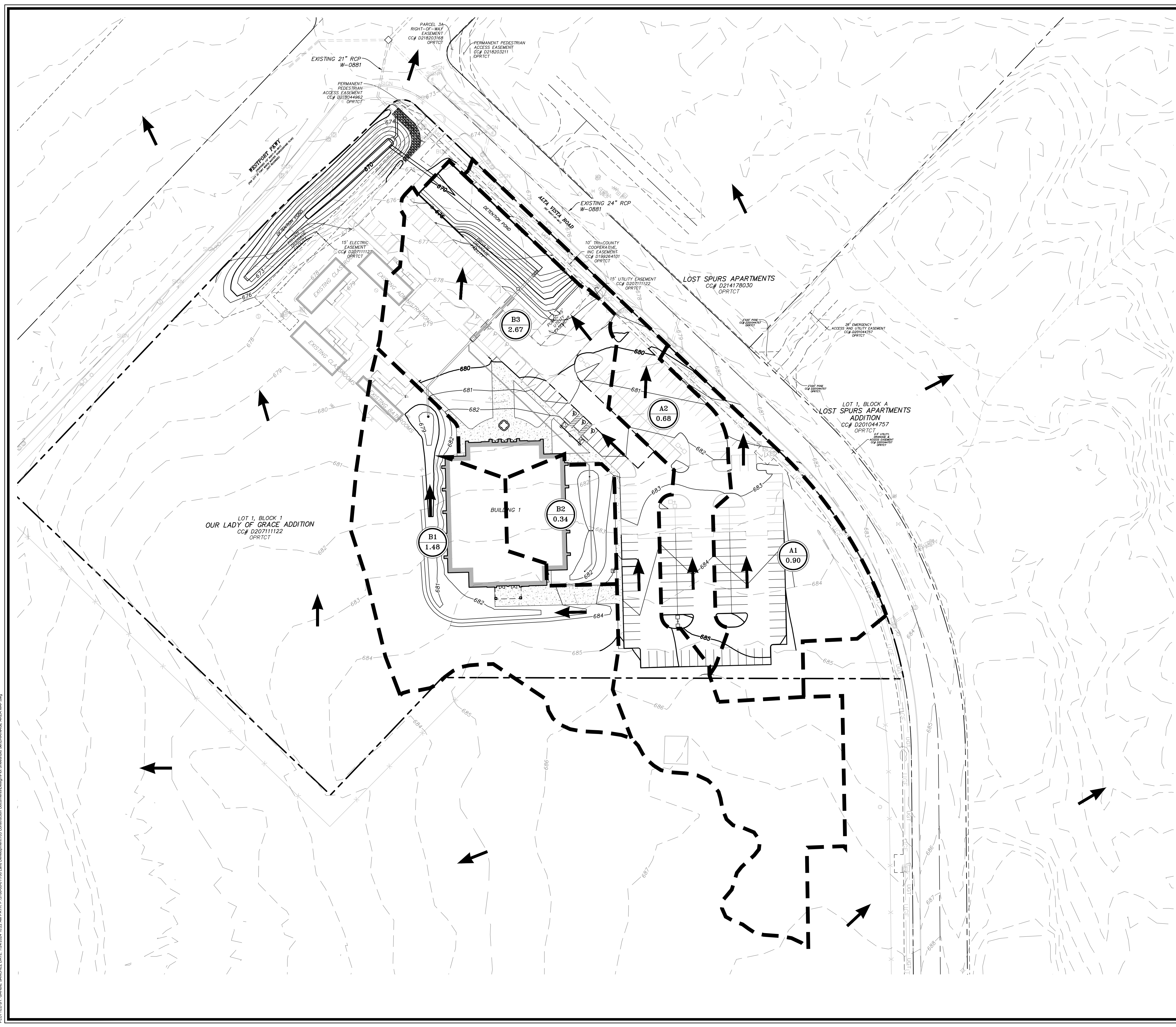
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EROSION CONTROL DETAILS
SHEET NO:
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LEGEND:

EXISTING MAJOR CONTOUR	---640---
EXISTING MINOR CONTOUR	---641---
PROPOSED MINOR CONTOUR	—640—
PROPOSED MAJOR CONTOUR	—641—
PROPOSED STORM DRAIN	—/—/—
DRAINAGE AREA BOUNDARY	— — — —
DRAINAGE AREA LABEL	(A1)
NAME	NAME
AREA (ACRES)	2.6
INLET DESIGNATION	XX' C.I. XX
FLOW AREA	→
DESIGN POINT	▲

NOTES:

1. PROPERTY IS CURRENTLY ZONED MULTIFAMILY (C) BUT WILL BE REZONED TO NEIGHBORHOOD COMMERCIAL (E).
2. DESIGN CRITERIA IS BASED ON CITY OF FORT WORTH DESIGN CRITERIA MANUAL DATED NOVEMBER 2015.
3. EXISTING CONTOURS ARE BASED ON TOPOGRAPHIC SURVEY PREPARED BY MMA, DATED NOVEMBER, 2023 AND LIDAR COMPLETED IN 2019 DOWNLOADED FROM TNRS.
4. DRAINAGE AREAS ARE BASED FROM ST. TERESA OF CALCUTTA CATHOLIC CHURCH DRAINAGE STUDY. REFER TO STUDY FOR MORE DETAIL.
5. RATIONAL METHOD USED TO MODEL PROPOSED STORM PIPE IMPROVEMENTS ONLY. SCS METHODOLOGY USED IN DRAINAGE STUDY ANALYSIS, REFER TO DRAINAGE STUDY FOR MORE DETAIL.

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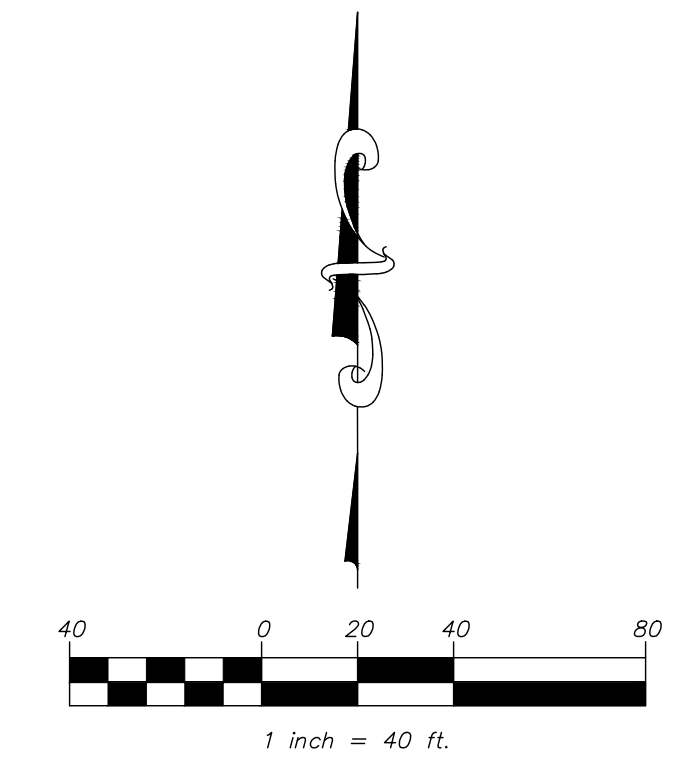
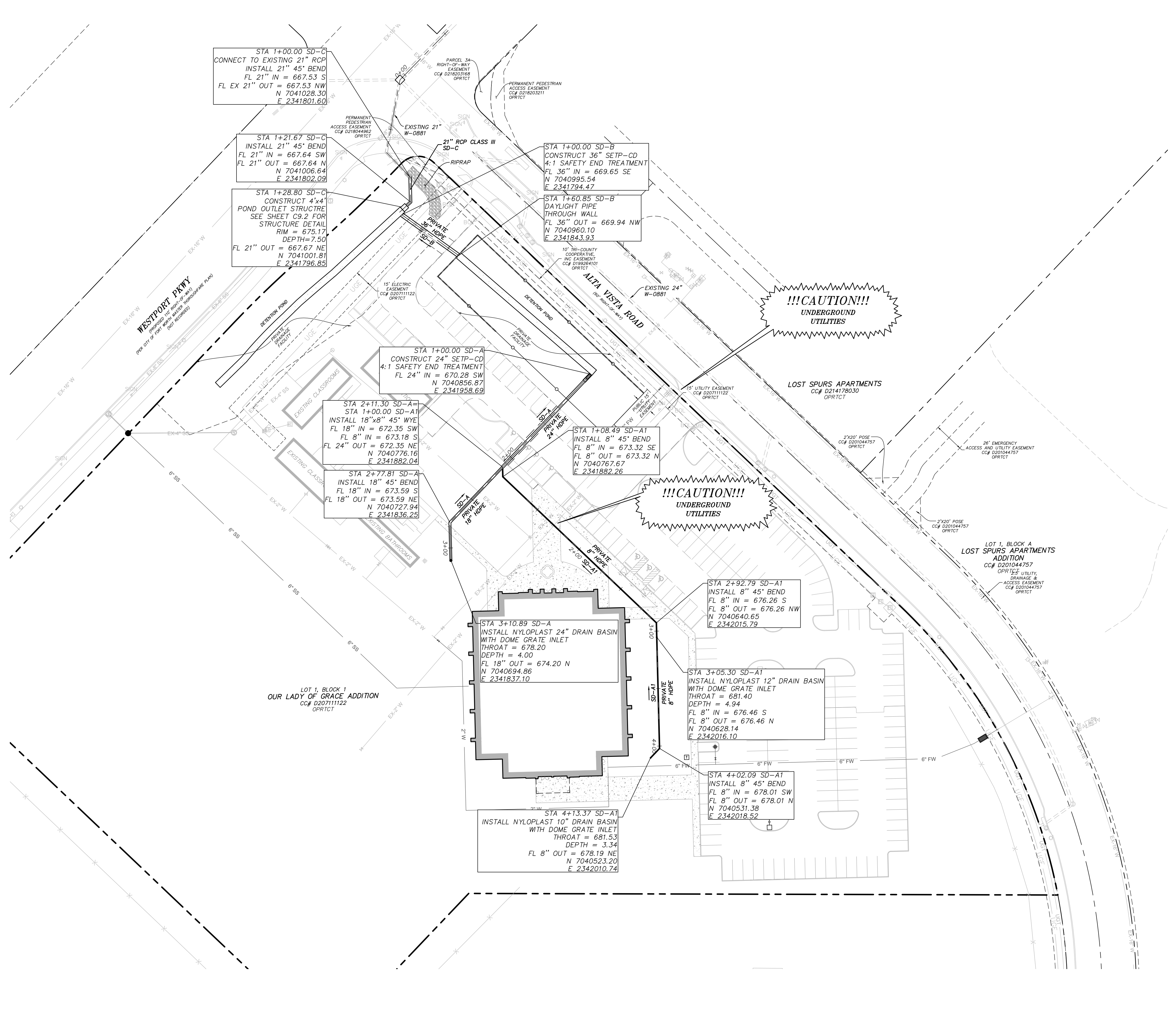
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DRAINAGE AREA MAP

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- LEGEND:**
- PROPOSED STORM DRAIN
 - PROPOSED CURB INLET
 - PROPOSED DROP INLET
 - PROPOSED LANDSCAPE DRAIN

- NOTES:**
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CITY OF FORT WORTH STANDARD DETAILS AND SPECIFICATIONS.
 - REFER TO SHEETS XX-XX FOR DETAILS.
 - ALL PIPE SHALL BE HDPE ADS-N12 OR APPROVED EQUAL.
 - ALL WYE, BENDS, REDUCERS AND PIPE TO BE PREFABRICATED.
 - REFER TO SHEET C1.0 FOR GENERAL NOTES.
 - REFER TO SHEET XX FOR PROFILES.

GENERAL UTILITY NOTES:

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CALL TEXAS 811 OR OTHER UTILITY LOCATING SERVICES 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY. MMA INC. IS NOT RESPONSIBLE FOR KNOWING ALL EXISTING UTILITIES OR DEPICTING EXACT LOCATIONS OF UTILITIES ON DRAWINGS.

SOURCE BENCHMARK:

CITY OF FORT WORTH MONUMENT #8963 - BRASS DISC STAMPED "8963" ON THE SOUTH CURB OF WESTPORT PARKWAY 60 FEET WEST OF THE WEST ENTRANCE RAMP TO I-35-N AND 160 FEET EAST OF THE CENTERLINE OF THE HERITAGE PARKWAY IN THE CENTER OF A 10 FOOT RECESSED INLET 1 FOOT OFF THE FACE OF CURB A CITY MON #8963 SET IN THE TOP OF THE INLET.

ELEV: 654.31'
 NAD83 TXNC (GRID)
 N: 7038654.13'
 E: 2332805.78'

SITE BENCHMARK:

TBM #1 - "X" CUT IN SQUARE LOCATED APPROXIMATELY 150' SOUTHWEST OF THE SOUTHWEST INTERSECTION OF WESTPORT PARKWAY AND SOUTHEAST BOUND LANE OF ALTA VISTA DRIVE. BENCHMARK IS APPROXIMATELY 40' SOUTHWEST OF THE NORTH ENTRANCE TO THE SUBJECT PROPERTY, ON TOP OF A CURB INLET IN THE SOUTH RIGHT OF WAY OF ALTA VISTA DRIVE.

ELEV: 674.75'
 NAD83 TXNC (GRID)
 N: 7039891.09'
 E: 2341537.55'

TBM #2 - "X" CUT IN SQUARE LOCATED APPROXIMATELY 555' SOUTHWEST OF THE SOUTHWEST INTERSECTION OF ALTA VISTA DRIVE AND NORTHEAST BOUND LANE OF WESTPORT PARKWAY. BENCHMARK IS ON A CURB INLET IN THE EAST RIGHT OF WAY OF WESTPORT PARKWAY.

ELEV: 675.54'
 NAD83 TXNC (GRID)
 N: 7039572.76'
 E: 2341024.54'

BEARINGS AND COORDINATE VALUES SHOWN HEREON ARE IN REFERENCE TO THE NAD83 TEXAS COORDINATE SYSTEM - NORTH CENTRAL ZONE, 4202, BASED ON GPS OBSERVATIONS UTILIZING THE LEICA GPS REFERENCE NETWORK. THE PROJECT SCALE FACTOR IS 1.000154642983 (0.999845380927), BASE POINT OF 0,0,0.

**ST. TERESA OF CALCUTTA CATHOLIC CHURCH
 FORT WORTH, TEXAS
 STORM DRAIN PLAN**

mma
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 tpeles registration number: 1 - 2759
 tpeles registration/license number: 10088000
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 arlington, texas 76010
 817-469-1671
 fax: 817-274-8757
 www.mmatexas.com

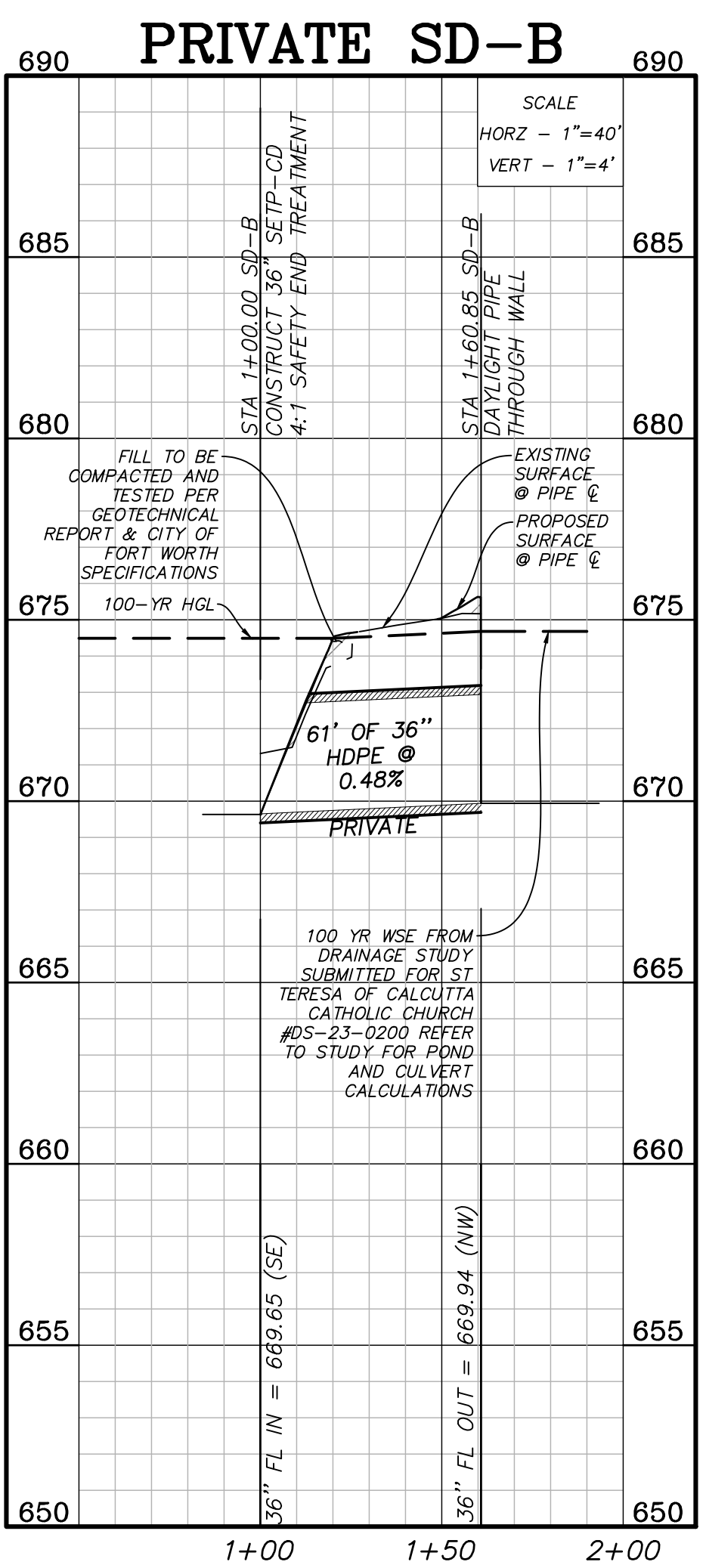
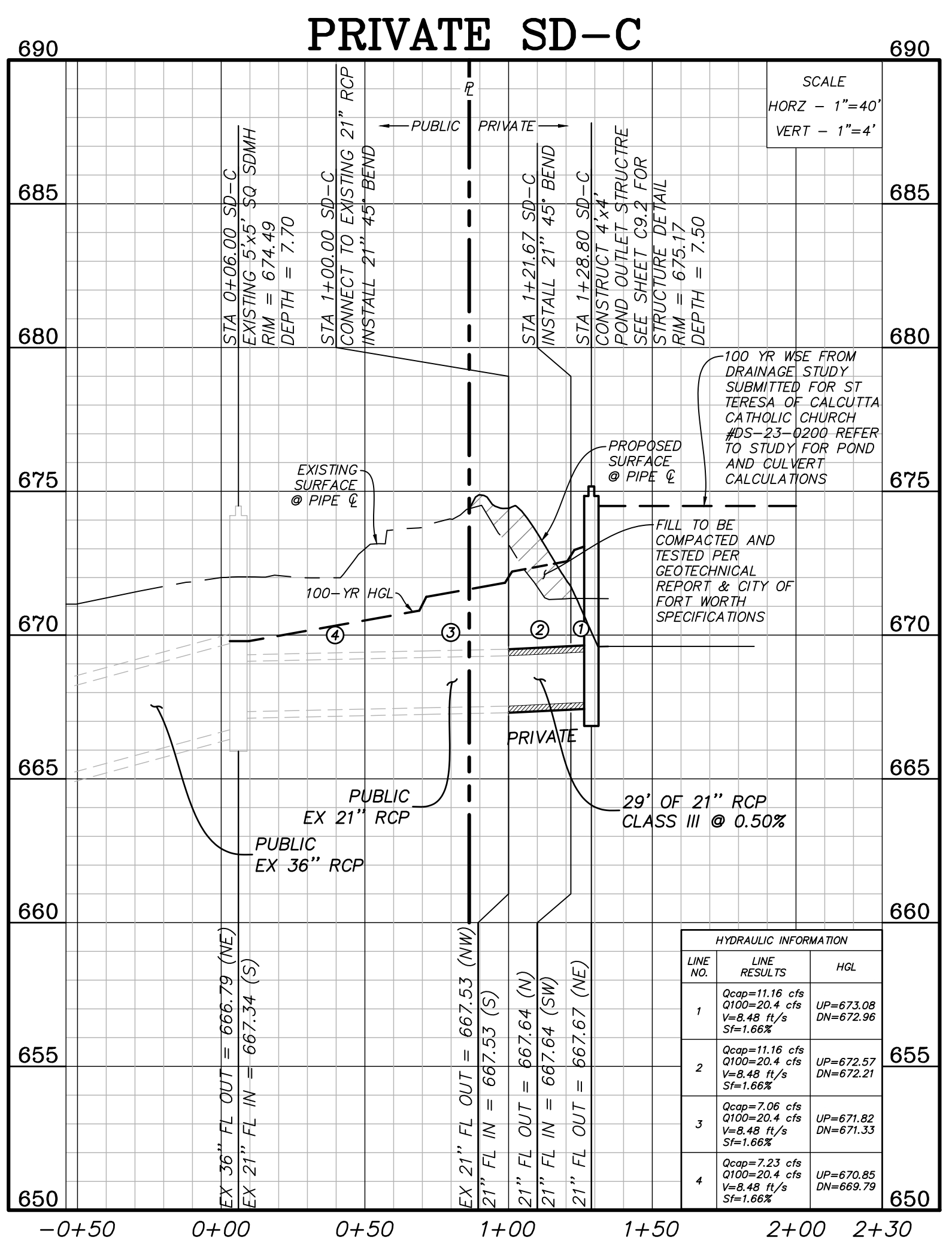
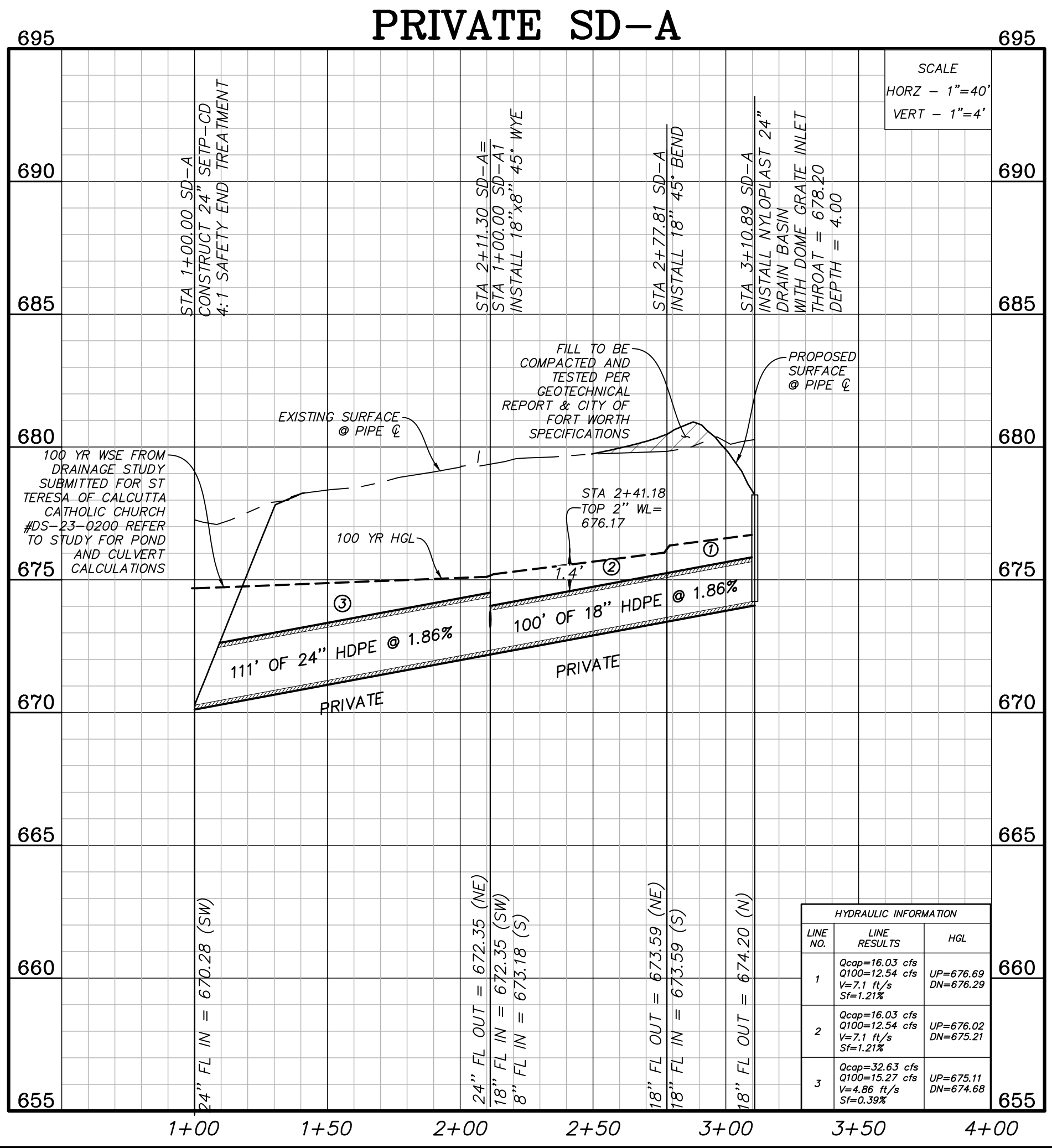
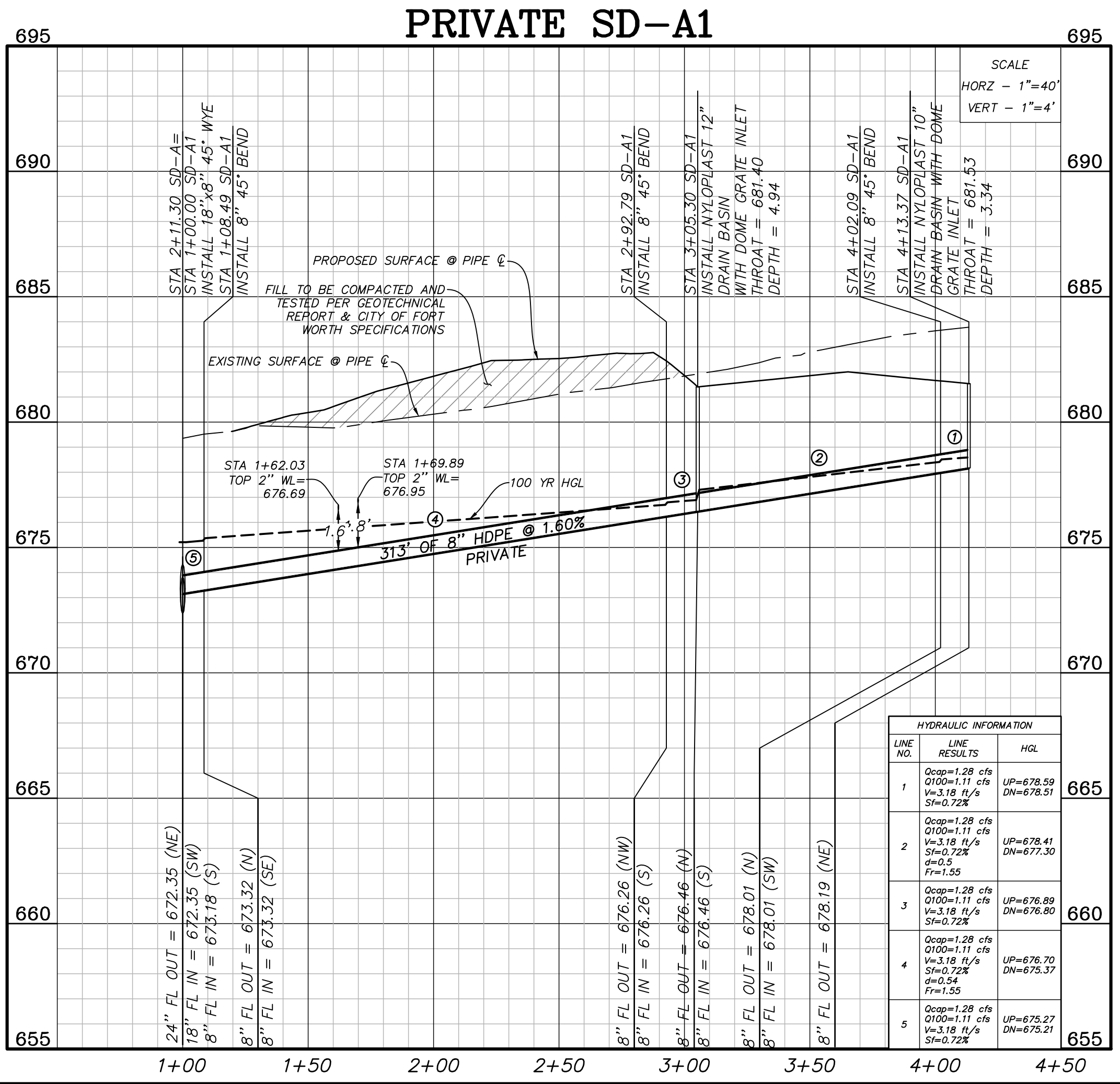
7/24/2024
 STATE OF TEXAS
 VALERIE ARRUDA
 151600
 LICENSED PROFESSIONAL ENGINEER
 FOR BID ONLY

PROJECT NUMBER:	3788-00-01
PROJECT MANAGER:	R. CRONIN
DRAWN BY:	G. SANCHEZ
CHECKED BY:	V. ARRUDA
ISSUE DATE:	7/24/2024

REV.	DATE	DESCRIP.	BY

STORM DRAIN PLAN

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FORT WORTH, TEXAS**

STORM DRAIN PROFILES

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ltpels registration/license number: 10088000
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arlington, texas 76010
817-469-1671
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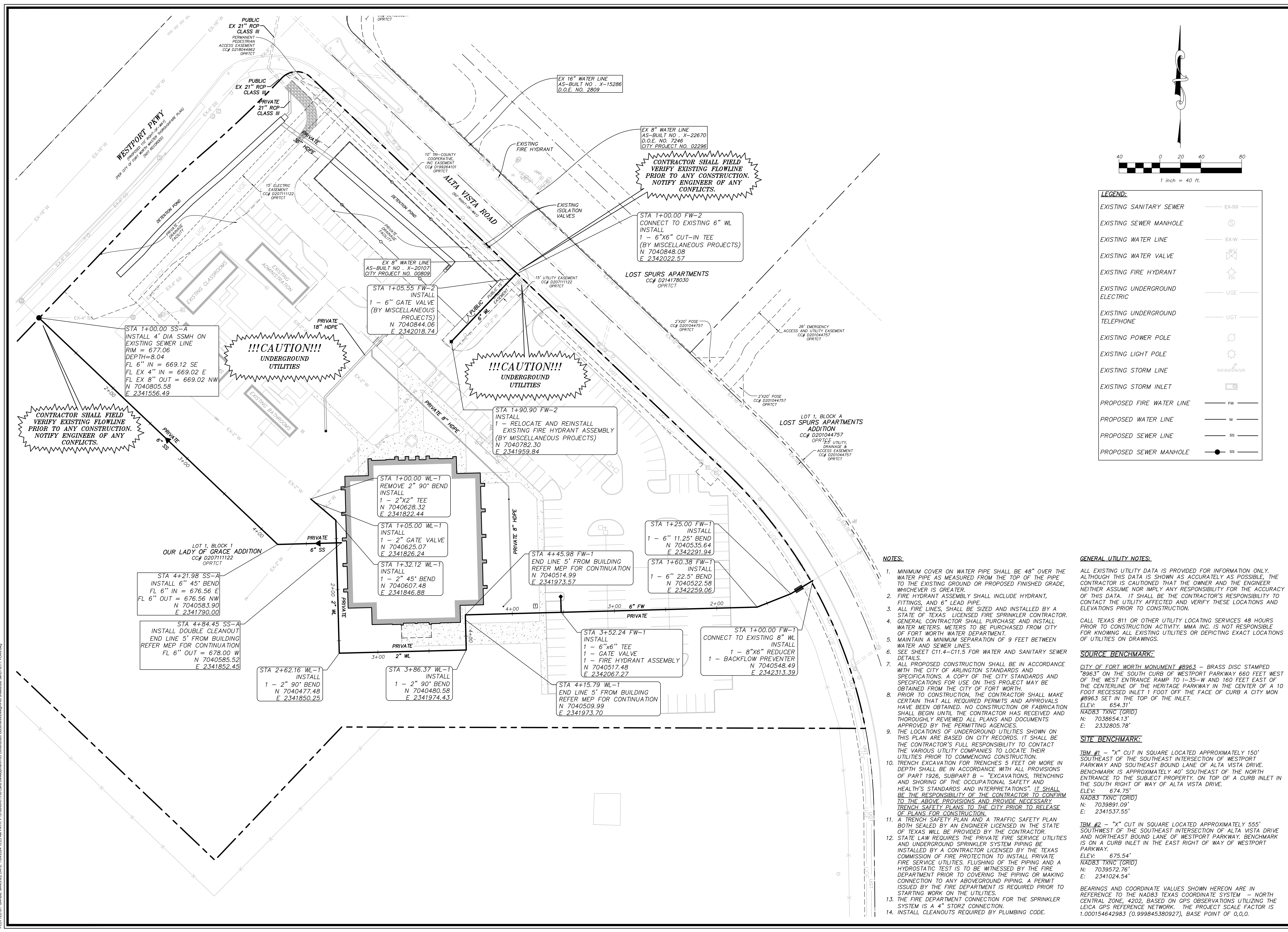
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STORM DRAIN PROFILES

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UTILITY PLAN

SHEET NO:
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LEGEND:

EXISTING SANITARY SEWER	— Ex-SS —
EXISTING SEWER MANHOLE	⊙ S
EXISTING WATER LINE	— Ex-W —
EXISTING WATER VALVE	⊗ V
EXISTING FIRE HYDRANT	⊙ FH
EXISTING UNDERGROUND ELECTRIC	— UGE —
EXISTING UNDERGROUND TELEPHONE	— UGT —
EXISTING POWER POLE	⊙ P
EXISTING LIGHT POLE	⊙ L
EXISTING STORM LINE	— S —
EXISTING STORM INLET	⊙ I
PROPOSED FIRE WATER LINE	— FW —
PROPOSED WATER LINE	— W —
PROPOSED SEWER LINE	— SS —
PROPOSED SEWER MANHOLE	● SS

- NOTES:**
- MINIMUM COVER ON WATER PIPE SHALL BE 48" OVER THE WATER PIPE AS MEASURED FROM THE TOP OF THE PIPE TO THE EXISTING GROUND OR PROPOSED FINISHED GRADE, WHICHEVER IS GREATER.
 - FIRE HYDRANT ASSEMBLY SHALL INCLUDE HYDRANT, FITTINGS, AND 6" LEAD PIPE.
 - ALL FIRE LINES, SHALL BE SIZED AND INSTALLED BY A STATE OF TEXAS LICENSED FIRE SPRINKLER CONTRACTOR.
 - GENERAL CONTRACTOR SHALL PURCHASE AND INSTALL WATER METERS, METERS TO BE PURCHASED FROM CITY OF FORT WORTH WATER DEPARTMENT.
 - MAINTAIN A MINIMUM SEPARATION OF 9 FEET BETWEEN WATER AND SEWER LINES.
 - SEE SHEET C11.4-C11.5 FOR WATER AND SANITARY SEWER DETAILS.
 - ALL PROPOSED CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF ARLINGTON STANDARDS AND SPECIFICATIONS. A COPY OF THE CITY STANDARDS AND SPECIFICATIONS FOR USE ON THIS PROJECT MAY BE OBTAINED FROM THE CITY OF FORT WORTH.
 - PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL MAKE CERTAIN THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND DOCUMENTS APPROVED BY THE PERMITTING AGENCIES.
 - THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED ON CITY RECORDS. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
 - TRENCH EXCAVATION FOR TRENCHES 5 FEET OR MORE IN DEPTH SHALL BE IN ACCORDANCE WITH ALL PROVISIONS OF PART 1926, SUBPART B - "EXCAVATIONS, TRENCHING AND SHORING OF THE OCCUPATIONAL SAFETY AND HEALTH'S STANDARDS AND INTERPRETATIONS". IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM TO THE ABOVE PROVISIONS AND PROVIDE NECESSARY TRENCH SAFETY PLANS TO THE CITY PRIOR TO RELEASE OF PLANS FOR CONSTRUCTION.
 - A TRENCH SAFETY PLAN AND A TRAFFIC SAFETY PLAN BOTH SEALED BY AN ENGINEER LICENSED IN THE STATE OF TEXAS WILL BE PROVIDED BY THE CONTRACTOR.
 - STATE LAW REQUIRES THE PRIVATE FIRE SERVICE UTILITIES AND UNDERGROUND SPRINKLER SYSTEM PIPING BE INSTALLED BY A CONTRACTOR LICENSED BY THE TEXAS COMMISSION OF FIRE PROTECTION TO INSTALL PRIVATE FIRE SERVICE UTILITIES. FLUSHING OF THE PIPING AND A HYDROSTATIC TEST IS TO BE WITNESSED BY THE FIRE DEPARTMENT PRIOR TO COVERING THE PIPING OR MAKING CONNECTION TO ANY ABOVEGROUND PIPING. A PERMIT ISSUED BY THE FIRE DEPARTMENT IS REQUIRED PRIOR TO STARTING WORK ON THE UTILITIES.
 - THE FIRE DEPARTMENT CONNECTION FOR THE SPRINKLER SYSTEM IS A 4" STORZ CONNECTION.
 - INSTALL CLEANOUTS REQUIRED BY PLUMBING CODE.

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N: 7038654.13'
E: 2332805.78'

SITE BENCHMARK:

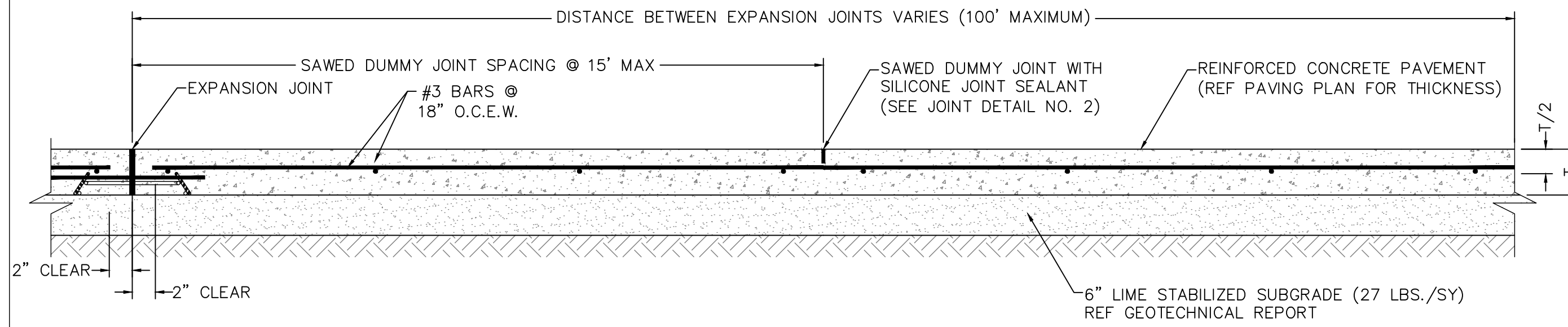
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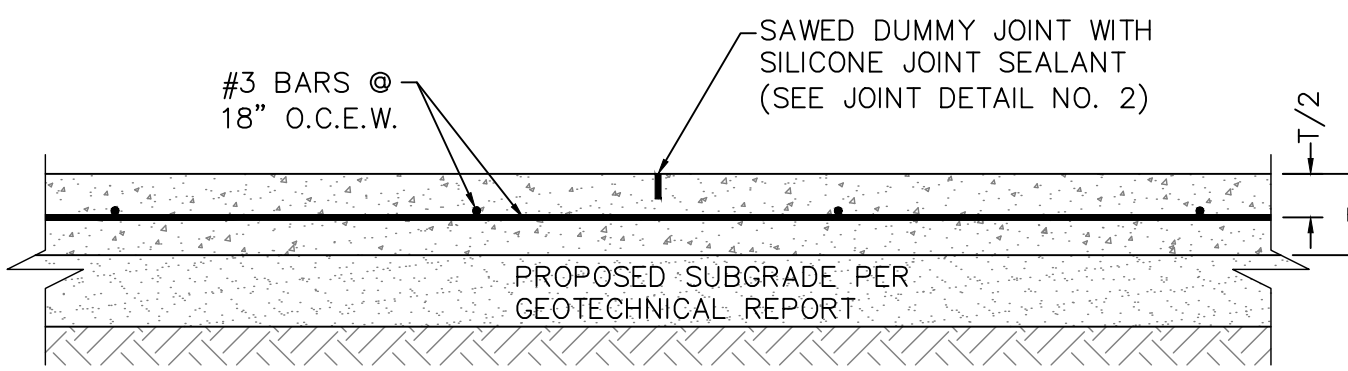
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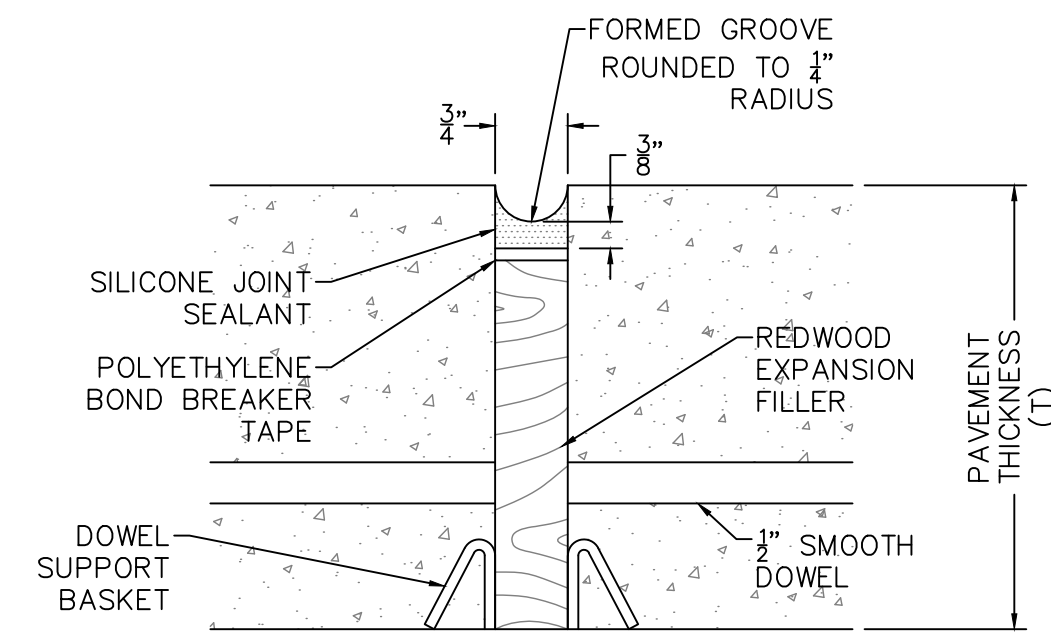
ST. TERESA OF CALCUTTA CATHOLIC CHURCH
FORT WORTH, TEXAS
PAVING DETAILS



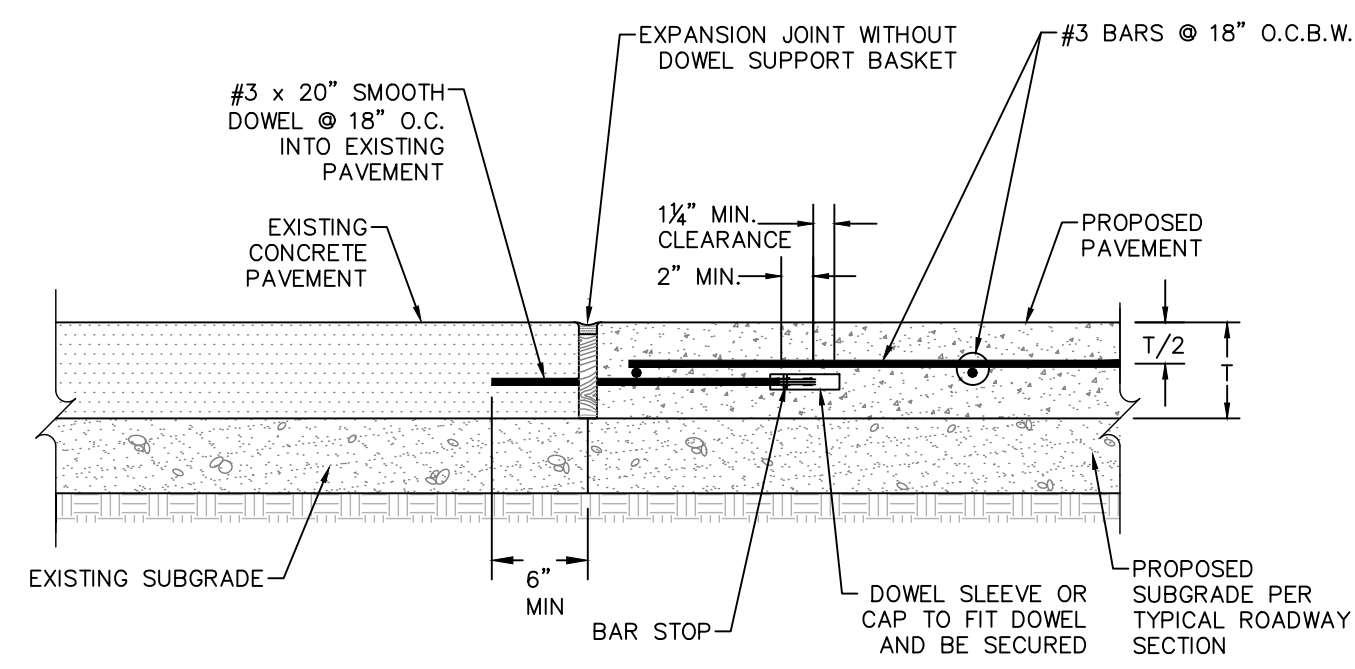
9 TYPICAL PAVING SECTION
NOT TO SCALE



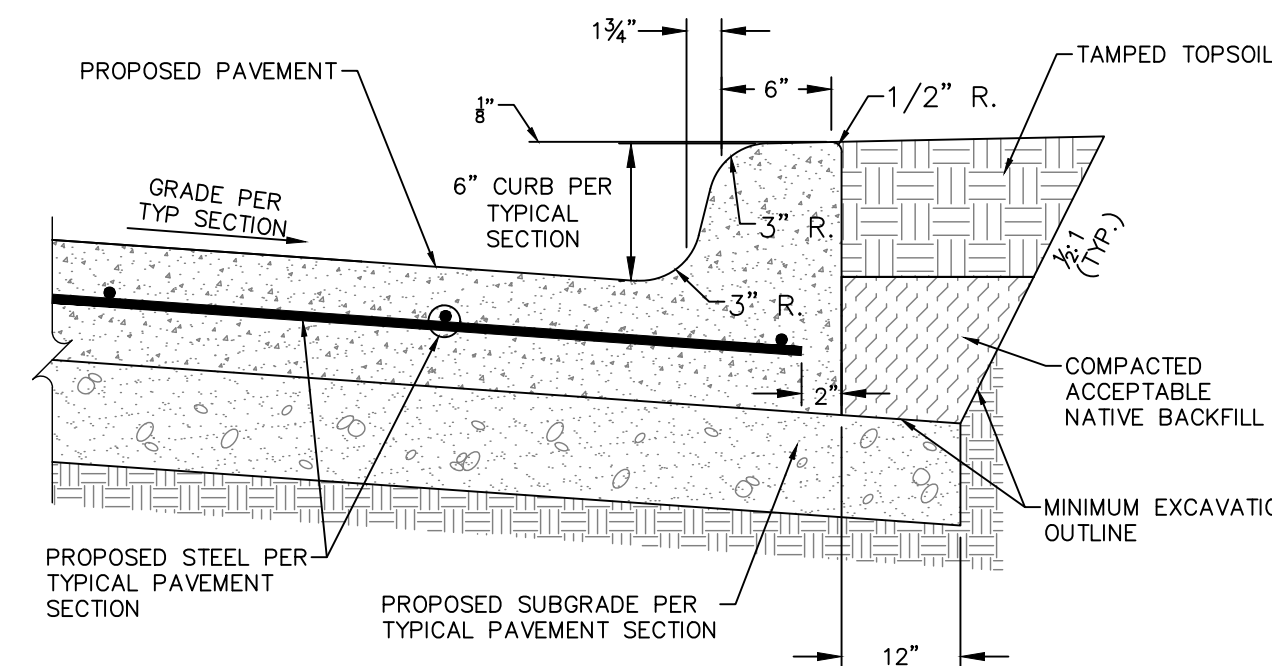
6 SAWED DUMMY JOINT
NOT TO SCALE



3 JOINT DETAIL NO. 1
NOT TO SCALE

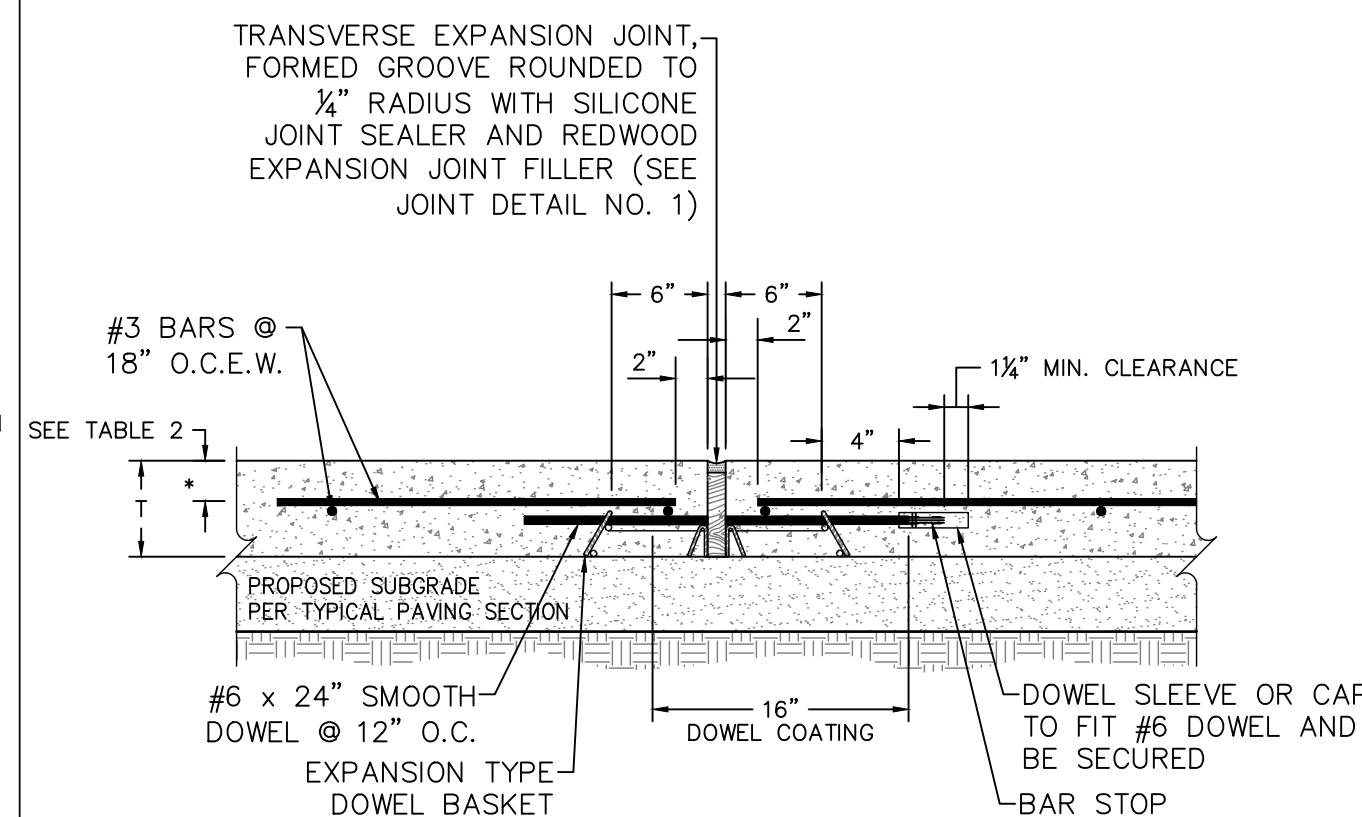


11 EXPANSION CONSTRUCTION JOINT
(BETWEEN EXISTING AND PROPOSED PAVEMENT)
NOT TO SCALE

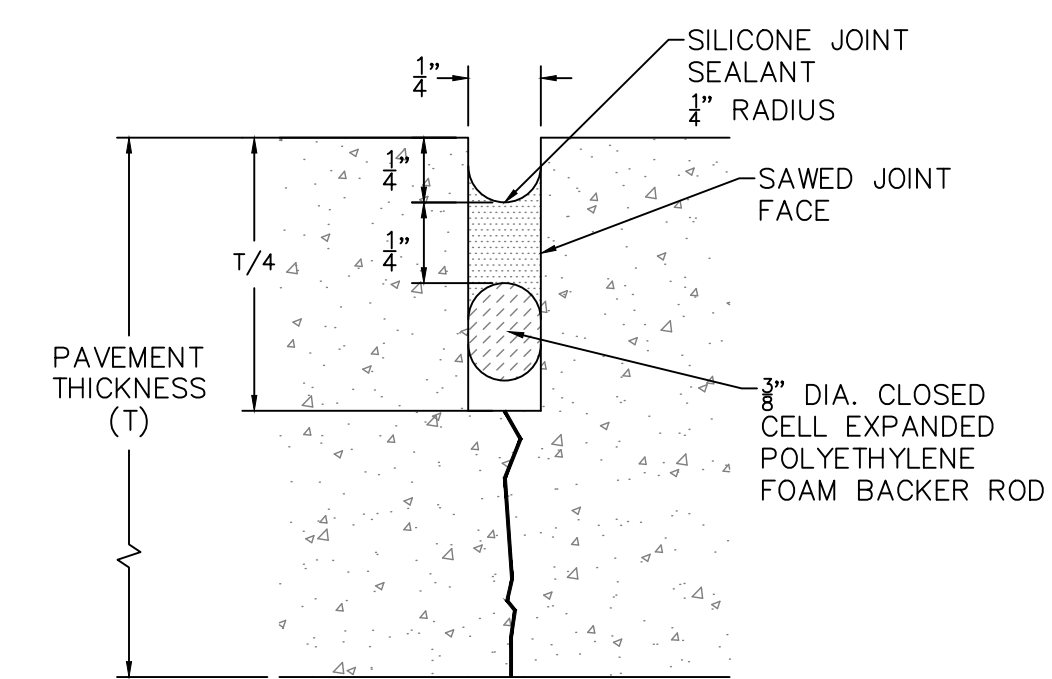


NOTES:
1. MATCH STREET SAWED JOINTS FOR SAWED JOINTS IN CURB.

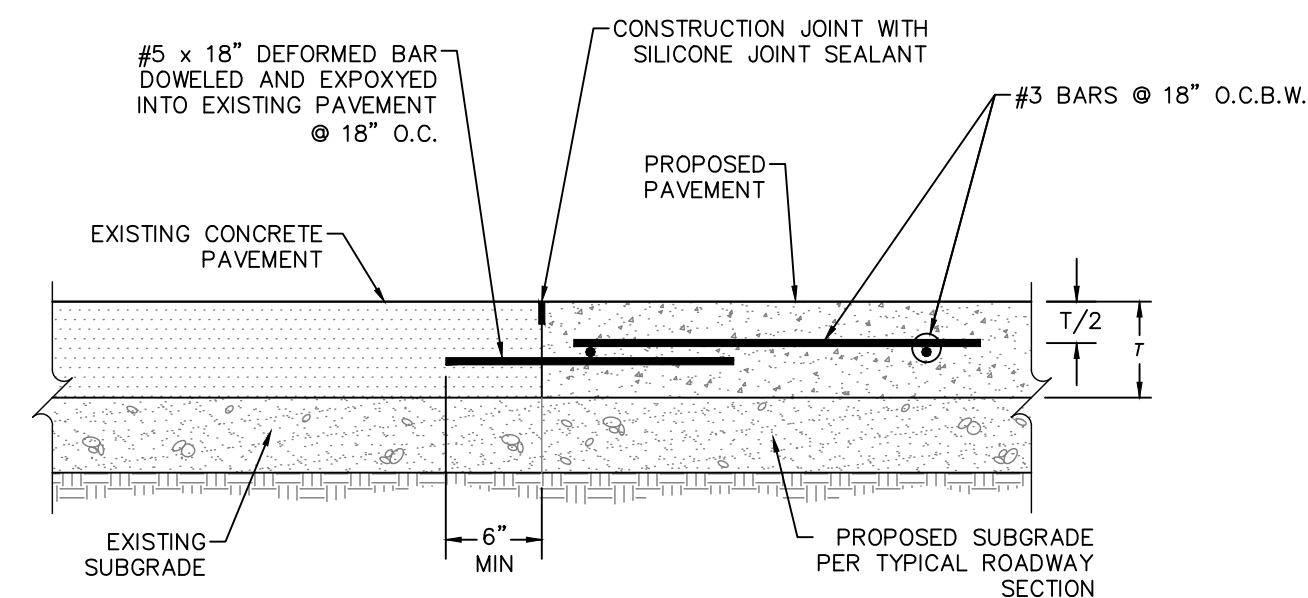
8 STANDARD MONOLITHIC CURB
NOT TO SCALE



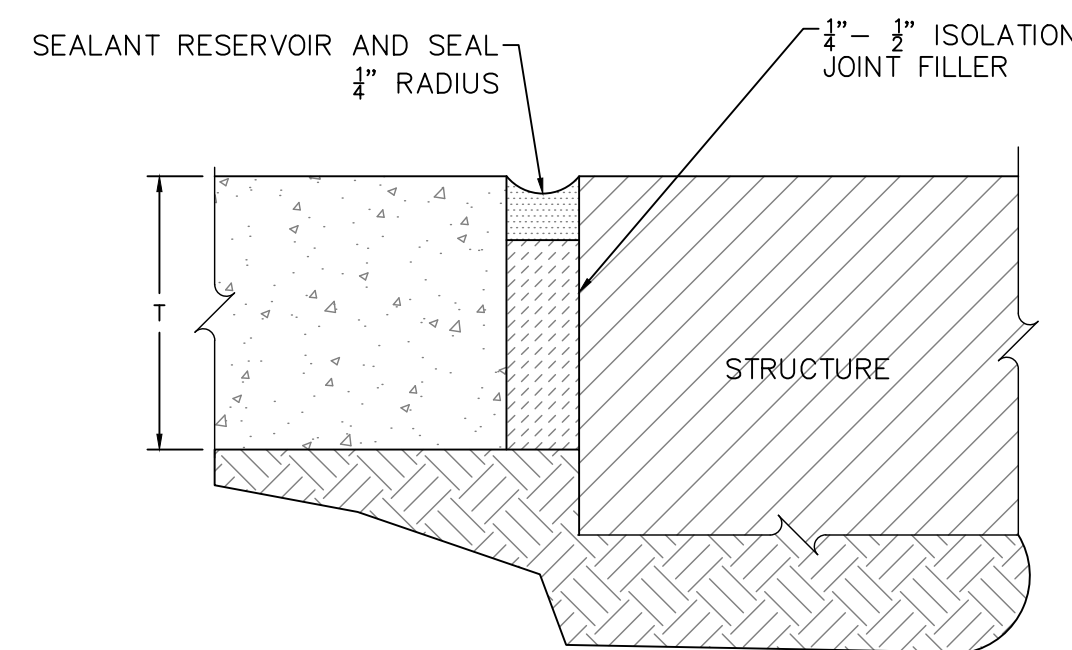
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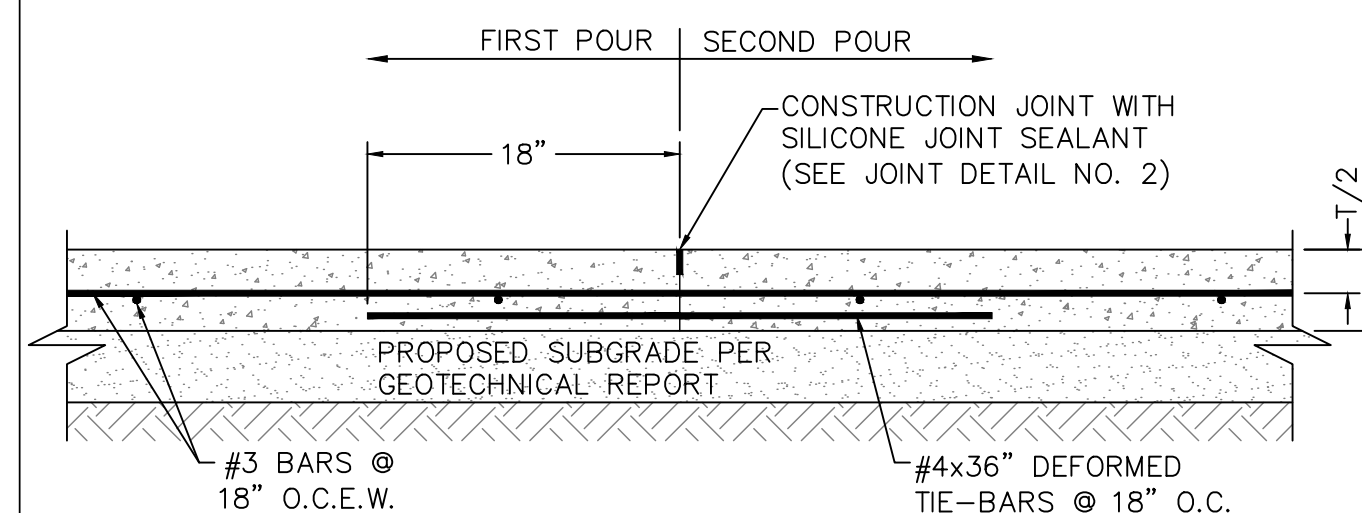
2 JOINT DETAIL NO. 2
NOT TO SCALE



10 CONSTRUCTION JOINT
(BETWEEN EXISTING AND PROPOSED PAVEMENT)
NOT TO SCALE



7 ISOLATION JOINT
NOT TO SCALE



4 CONSTRUCTION JOINT
NOT TO SCALE

CONSTRUCTION NOTES

- FOR DEFORMED BAR SPLICES, LAP BARS 40 DIAMETERS AND TIE.
- FOR PAVEMENT THICKNESS "T" REFER TO PAVING PLAN.

DM T = PAVEMENT THICKNESS	DM T/4 = JOINT DEPTH
5"	1 1/4"
6"	1 1/2"
7"	1 3/4"
8"	2"
9"	2 1/4"

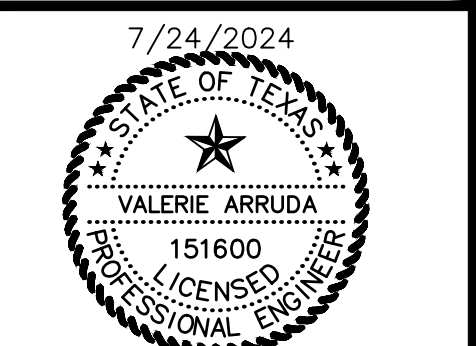
DM T = PAVEMENT THICKNESS	* (CLEARANCE FROM FACE OF CONCRETE)
5"	2"
6"	2"
7"	2 1/2"
8"	2 1/4"
9"	3"

NOTE: ALL DOWELS TO BE PLACED AT T/2.

1 PAVING NOTES & TABLES
NOT TO SCALE



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tpeps registration/license number: 10088000
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PROJECT MANAGER: R. CRONIN
DRAWN BY: G. SANCHEZ
CHECKED BY: V. ARRUDA
ISSUE DATE: 7/24/2024

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SHEET CONTENT:
PAVING DETAILS

SHEET NO:
C11.0

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**ST. TERESA OF CALCUTTA CATHOLIC CHURCH
FORT WORTH, TEXAS**

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7/24/2024
STATE OF TEXAS
VALERIE ARRUDA
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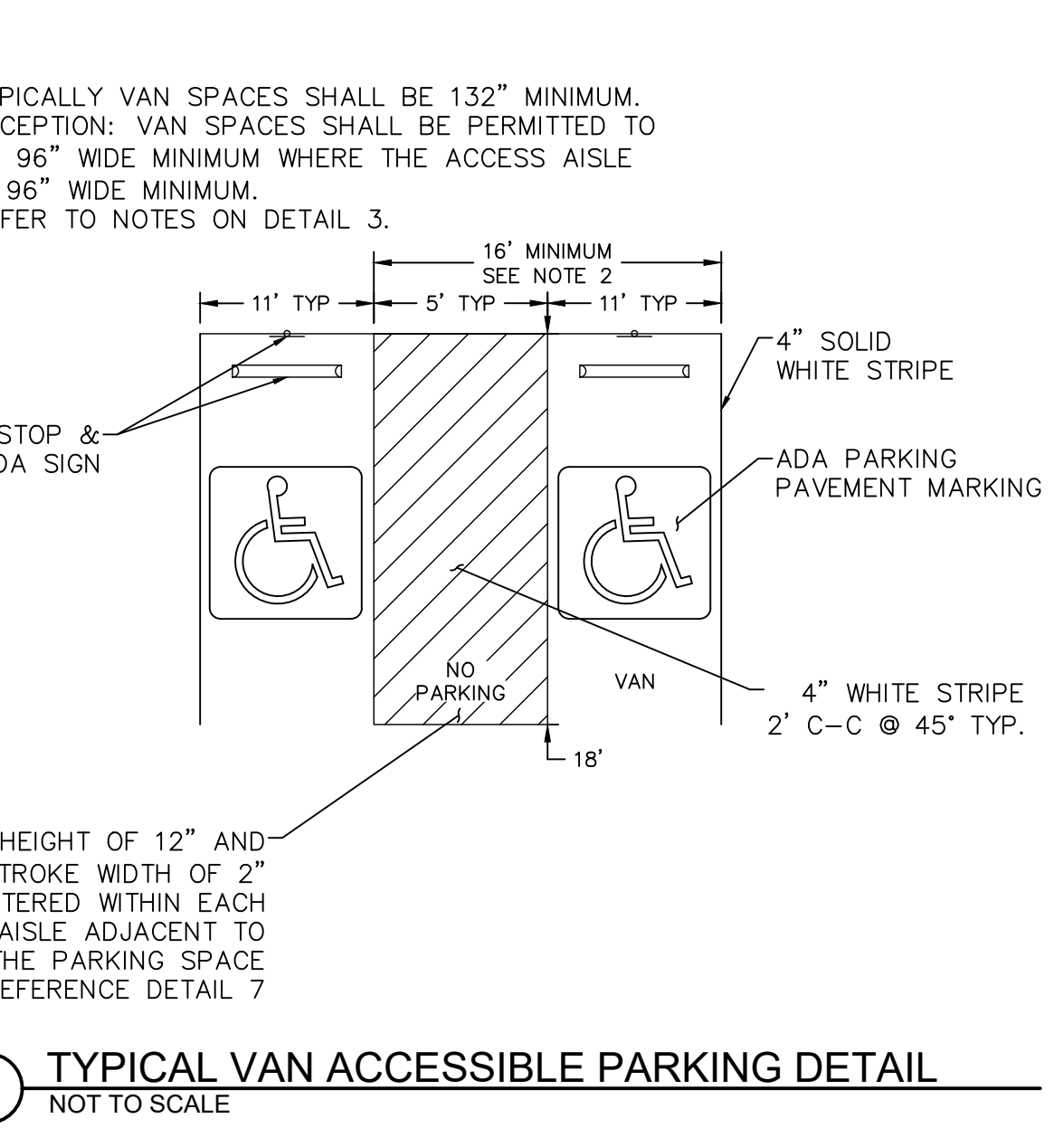
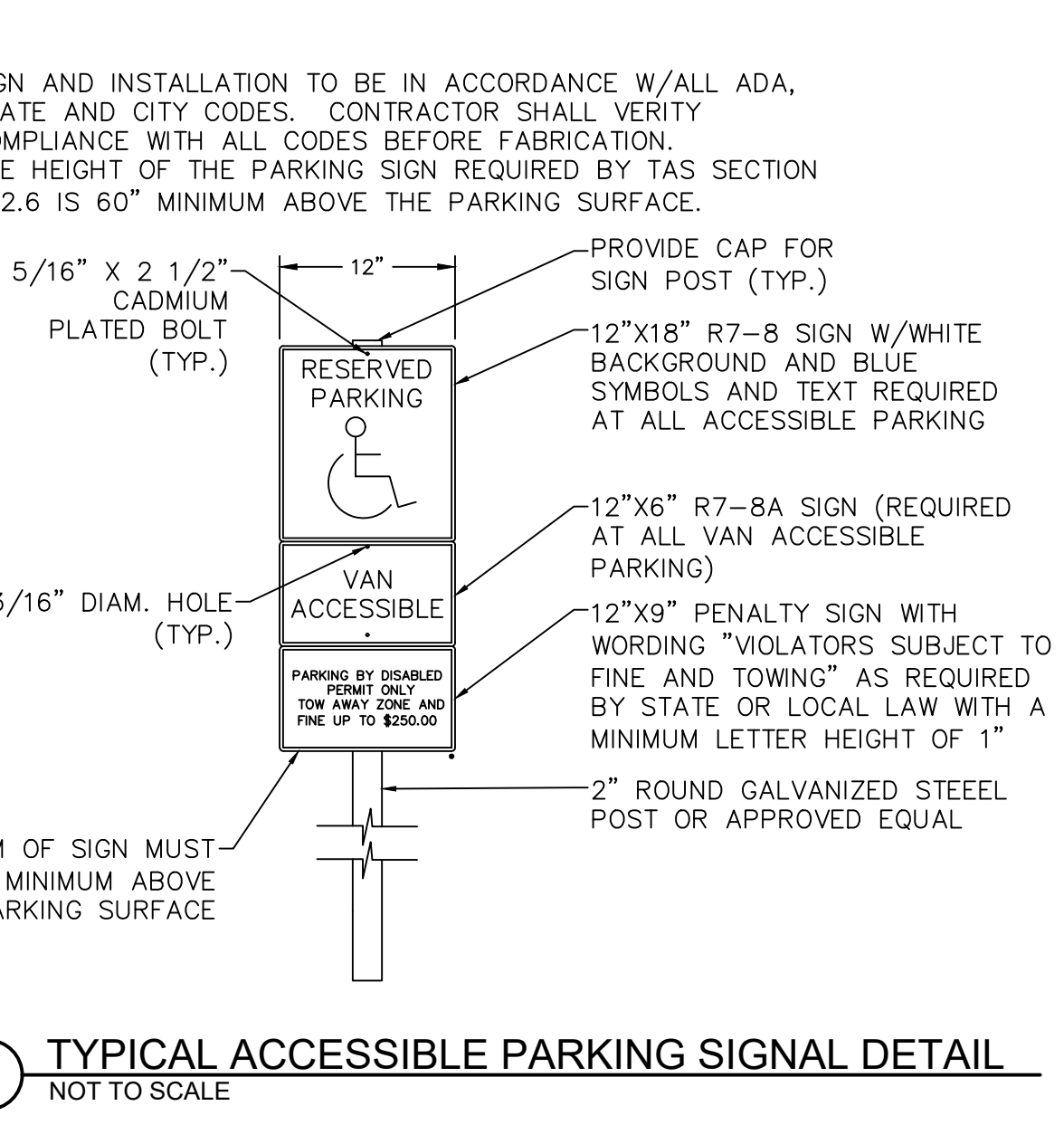
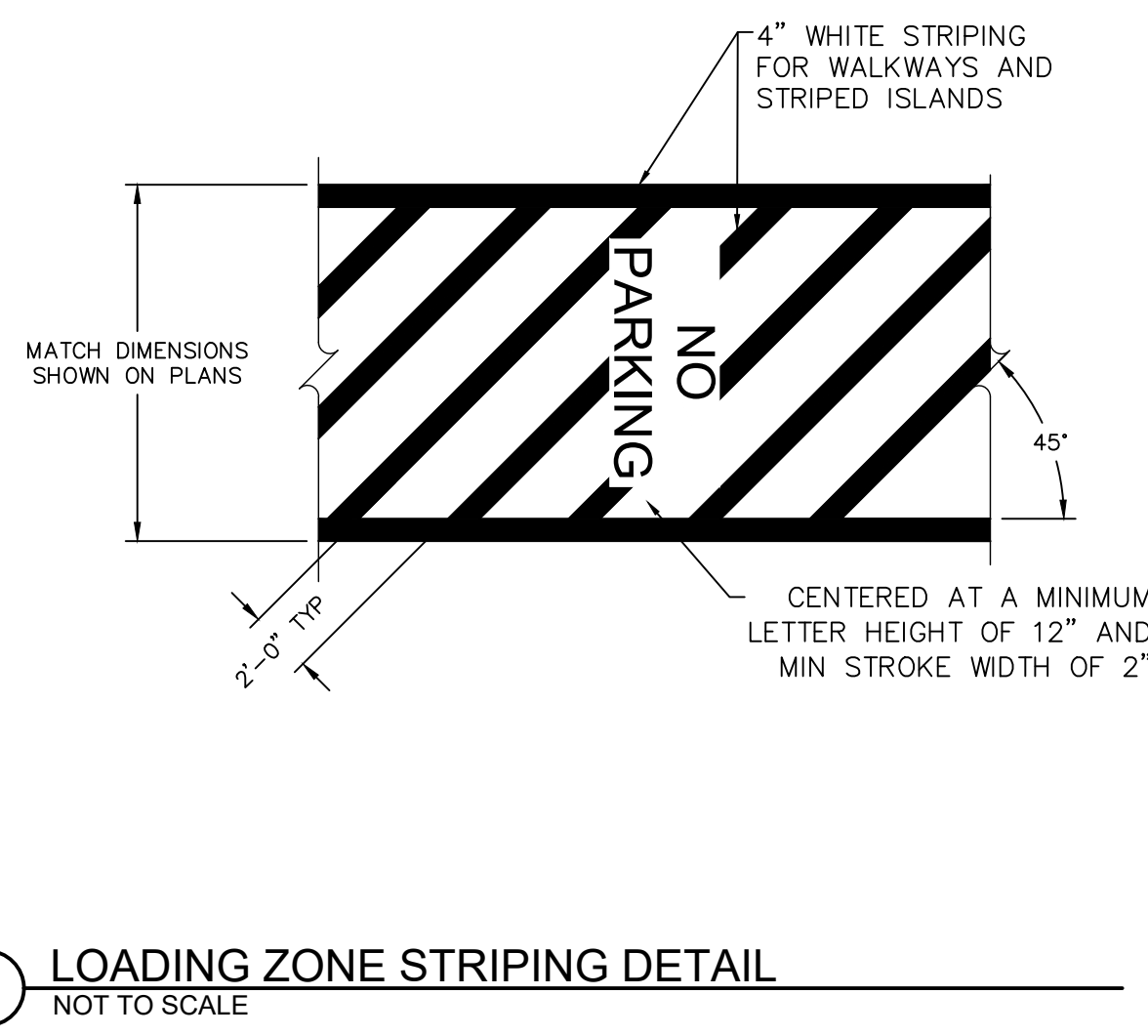
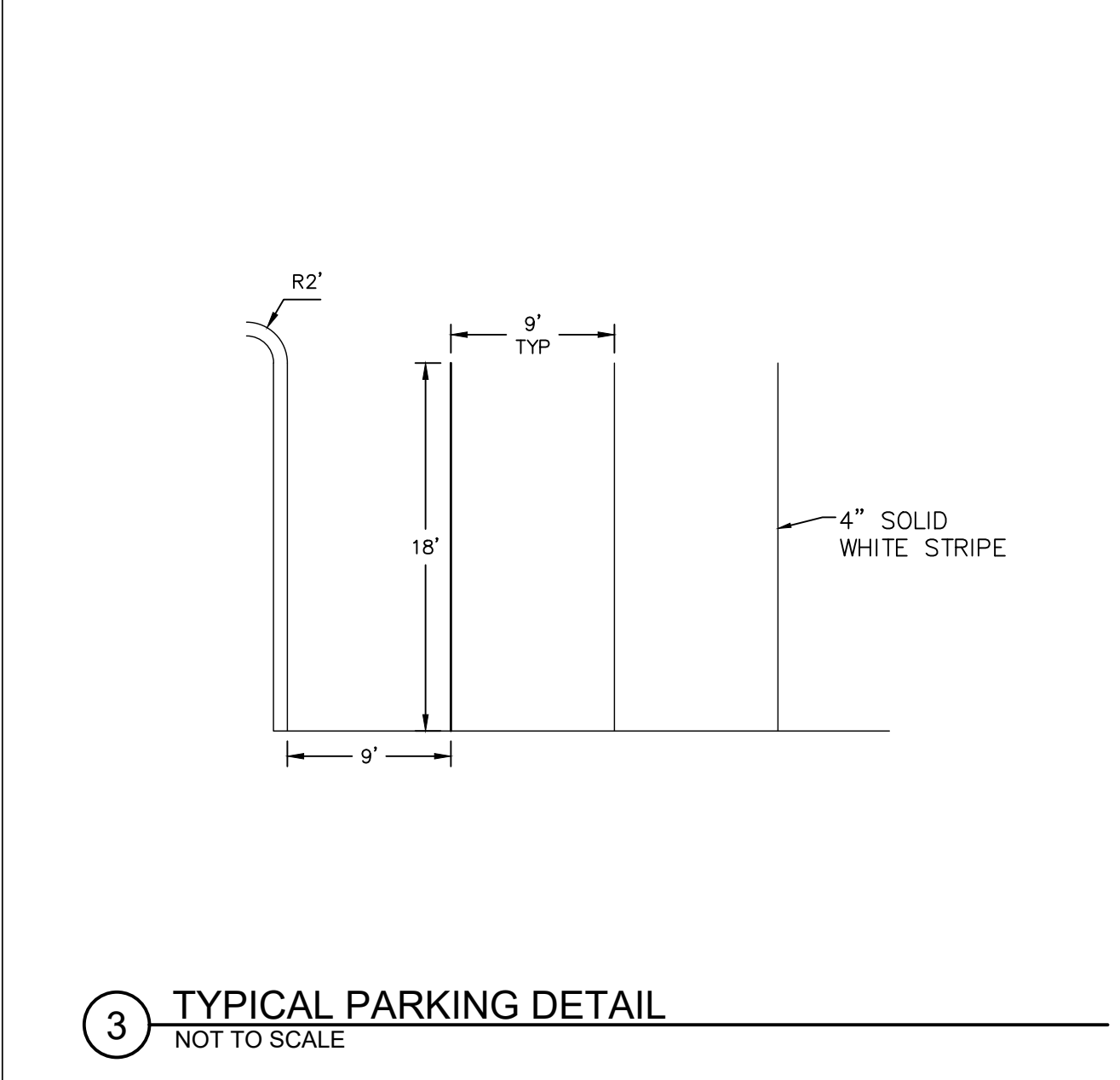
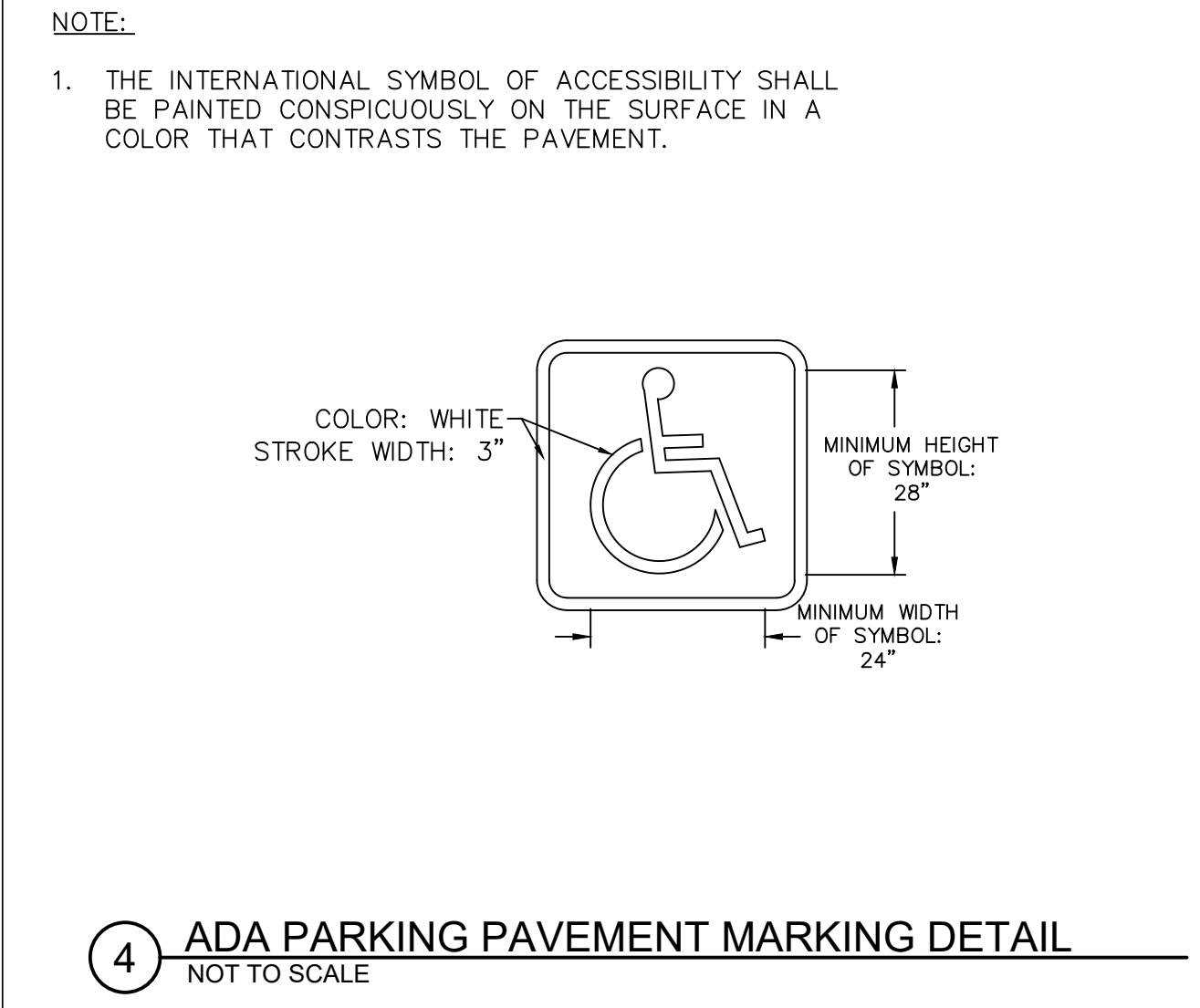
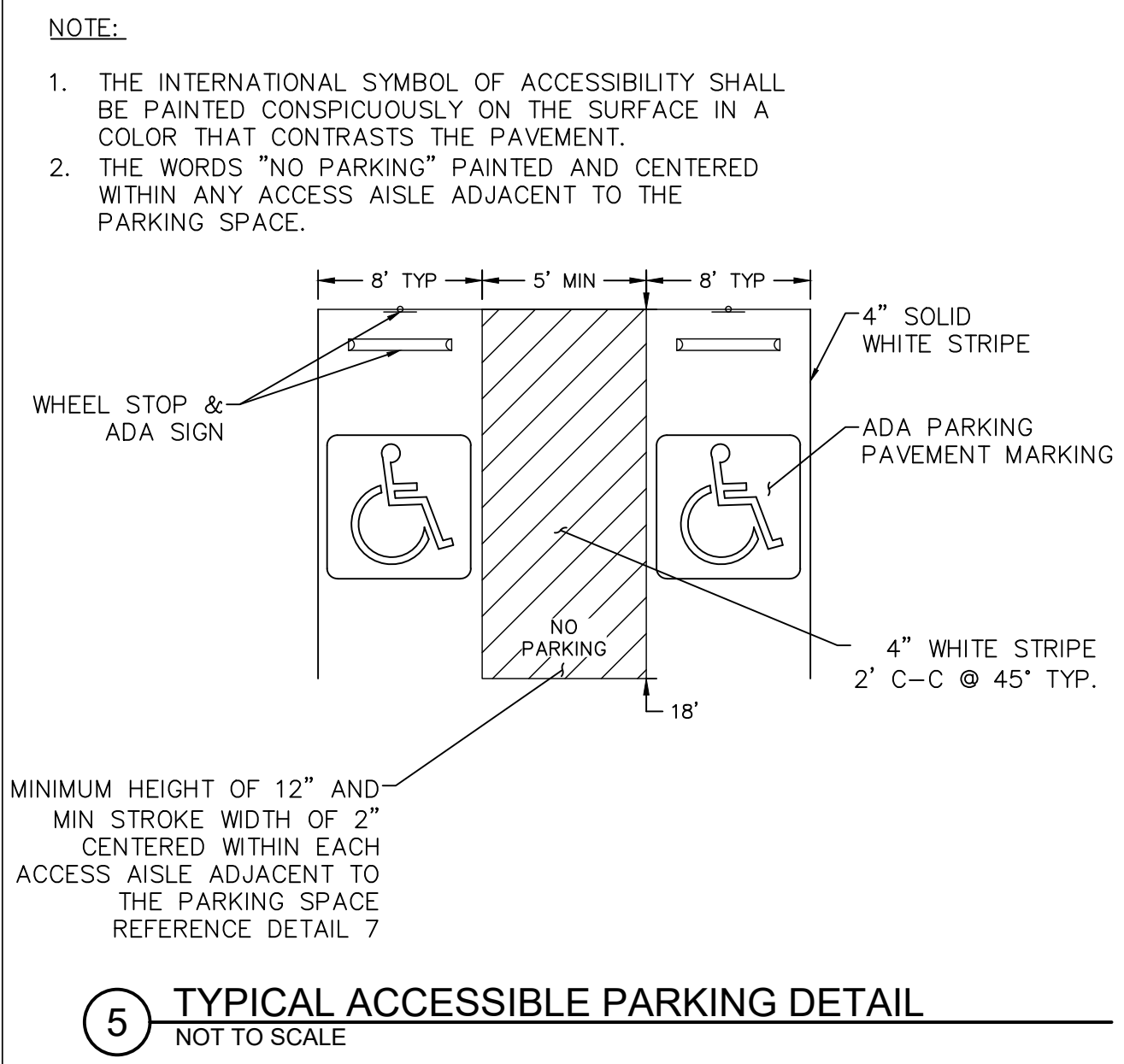
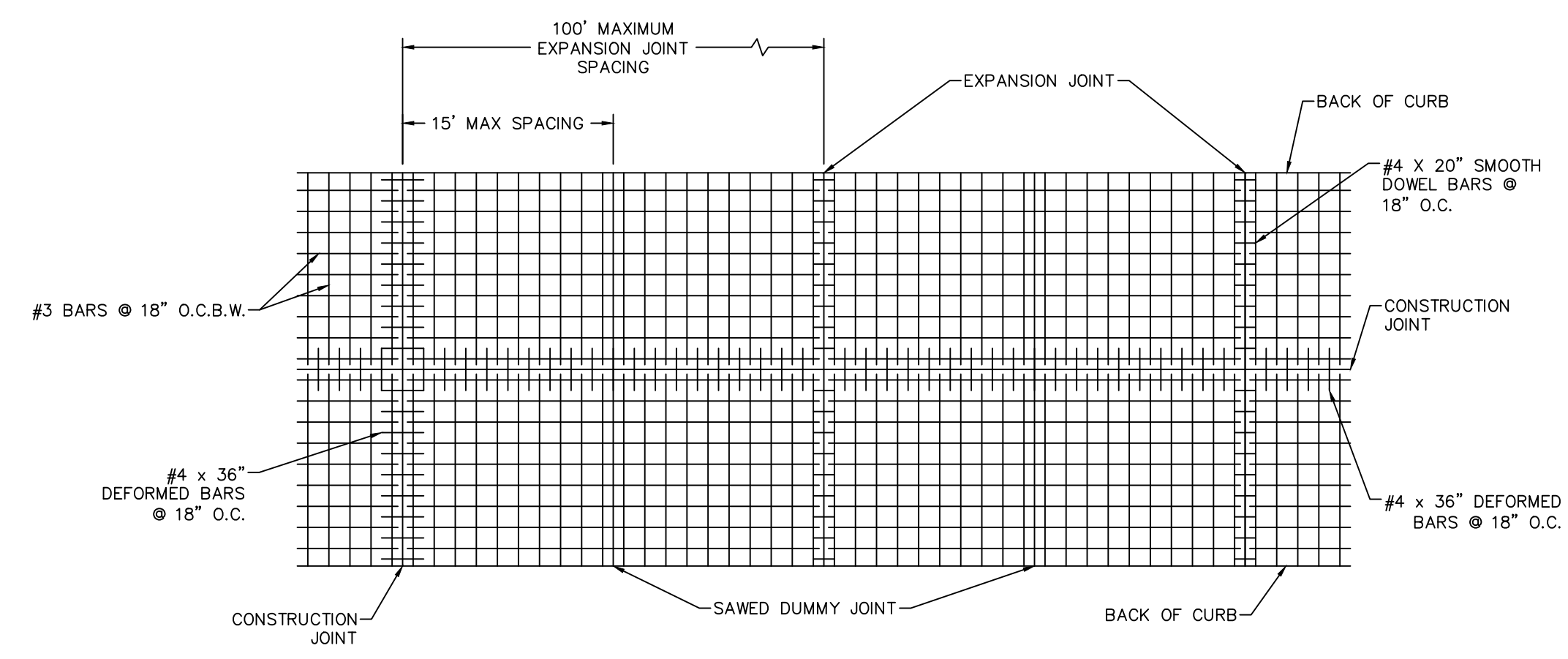
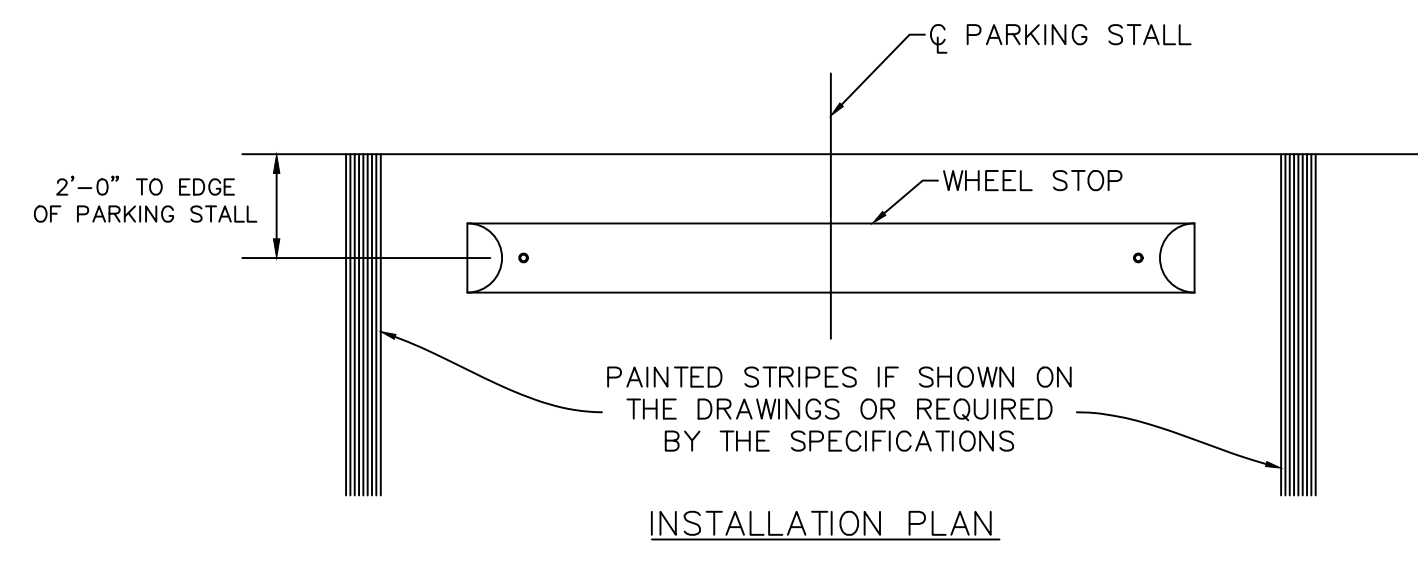
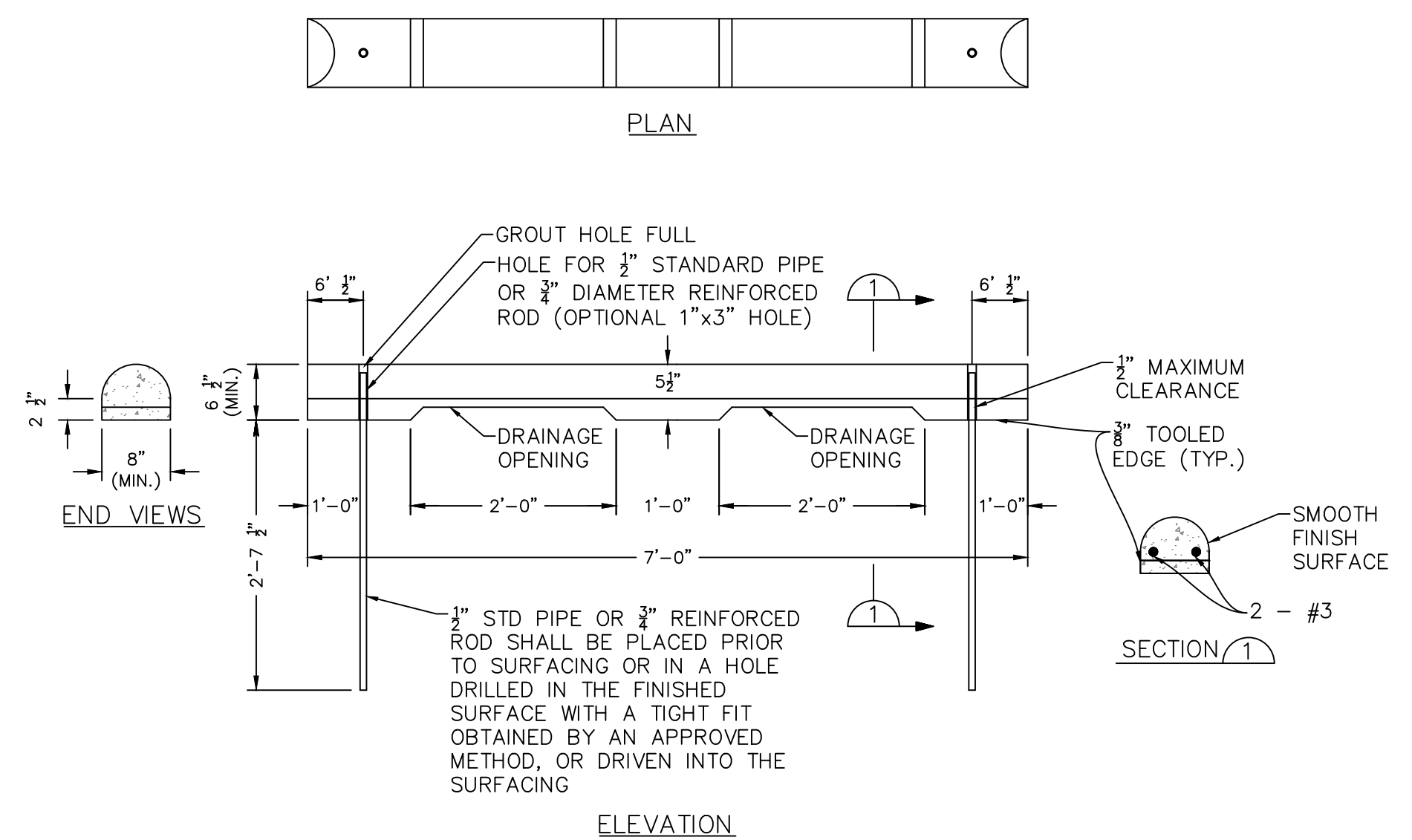
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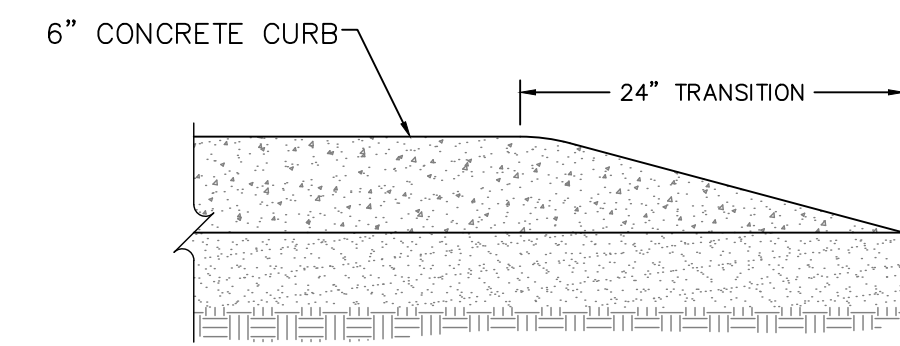
**PAVING
DETAILS**

SHEET NO:
C11.1

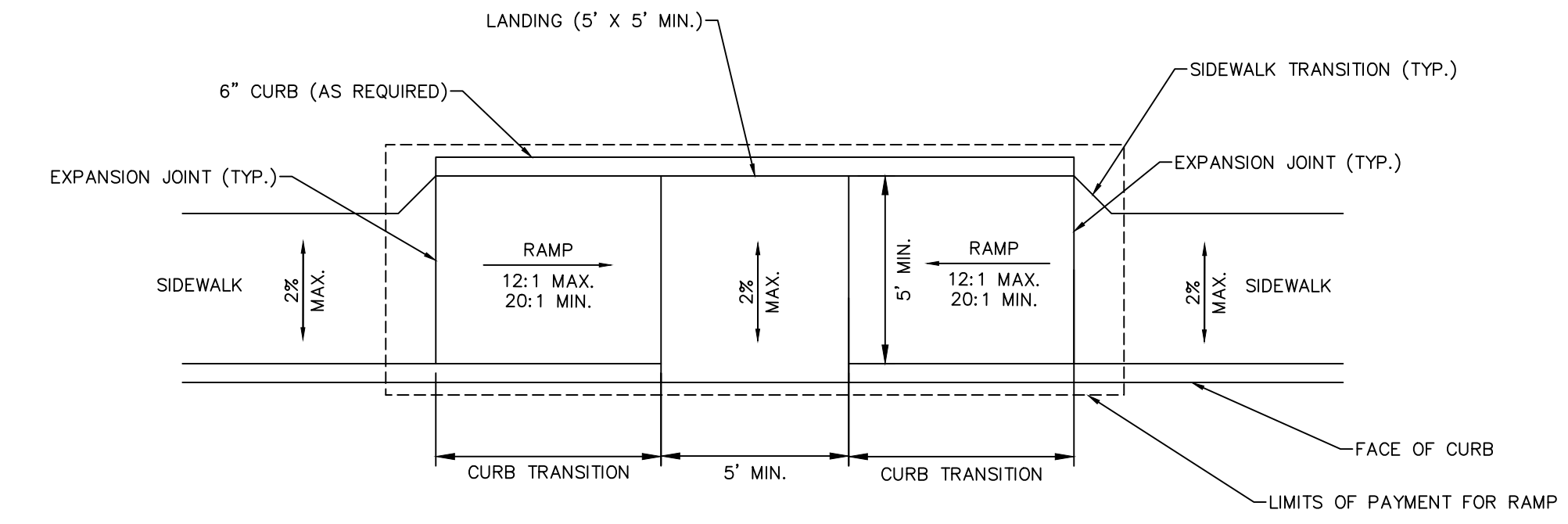
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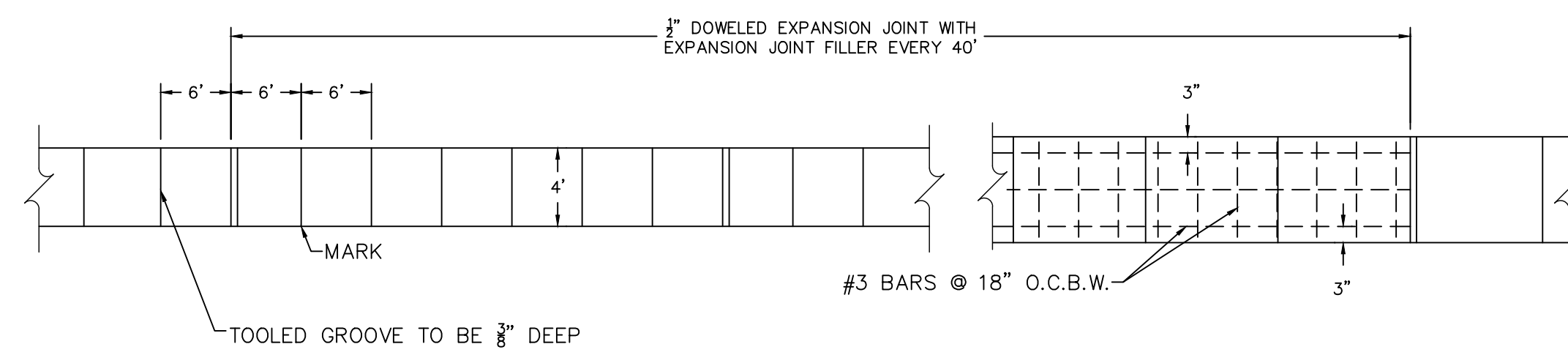
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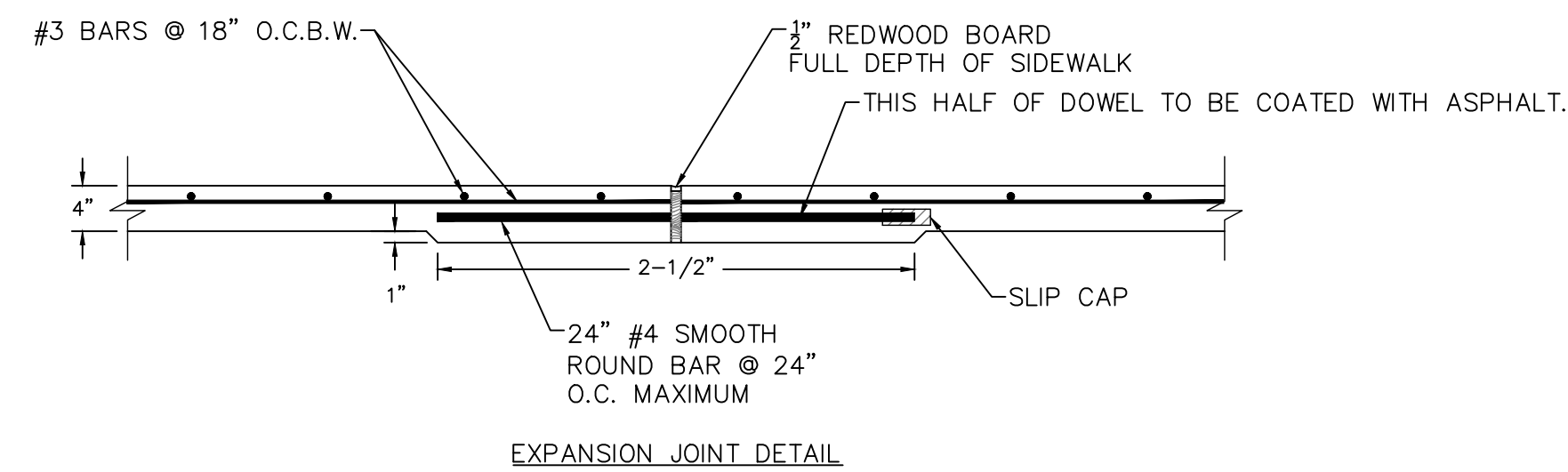
3 CURB TAPER
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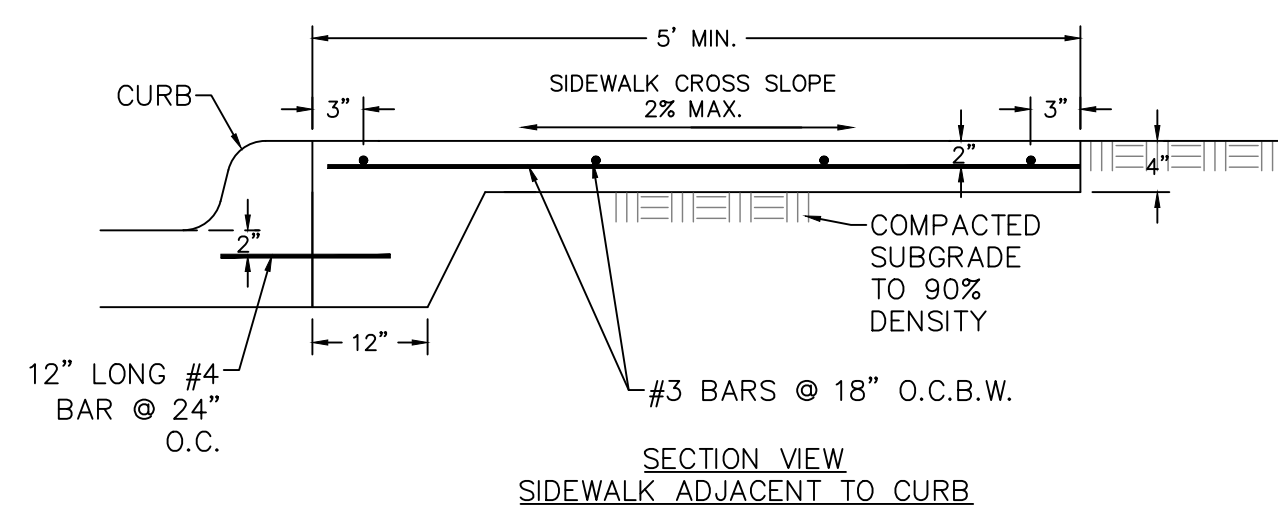
2 MID-BLOCK RAMP
 (SIDEWALK ADJACENT TO CURB)
 NOT TO SCALE



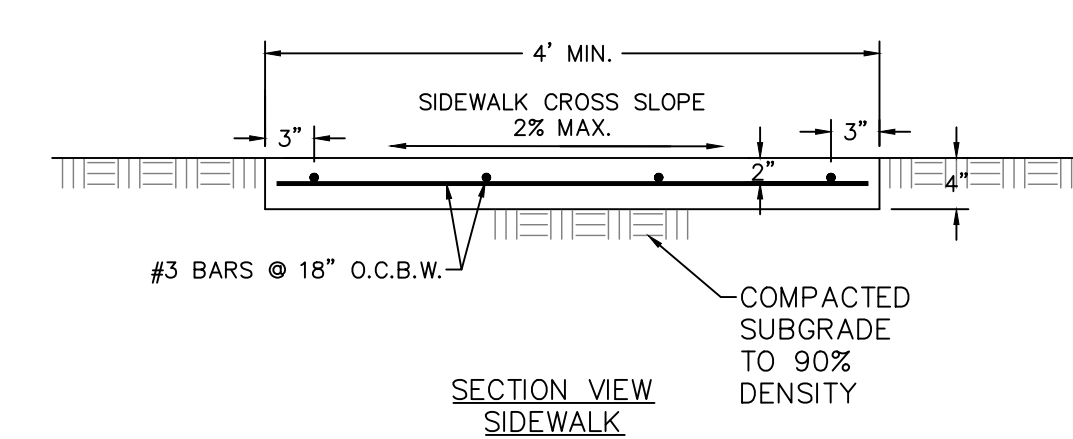
NOTES:
 1. "W"=SIDEWALK WIDTH 4' MIN. 5' IF SIDEWALK IS ADJACENT TO CURB, OR GREATER AS INDICATED ON THE PLANS.
 PLAN
 REINFORCED CONCRETE SIDEWALK



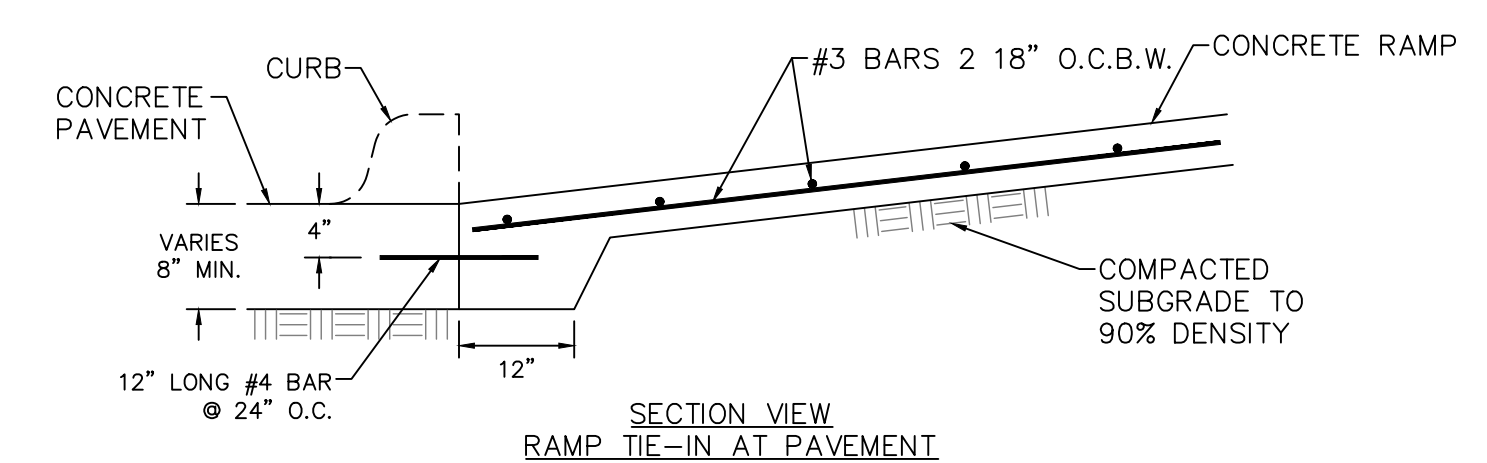
EXPANSION JOINT DETAIL



SECTION VIEW
 SIDEWALK ADJACENT TO CURB



SECTION VIEW
 SIDEWALK



SECTION VIEW
 RAMP TIE-IN AT PAVEMENT

1 SIDEWALK DETAILS
 NOT TO SCALE

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REV.	DATE	DESCRIP.	BY

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C11.2

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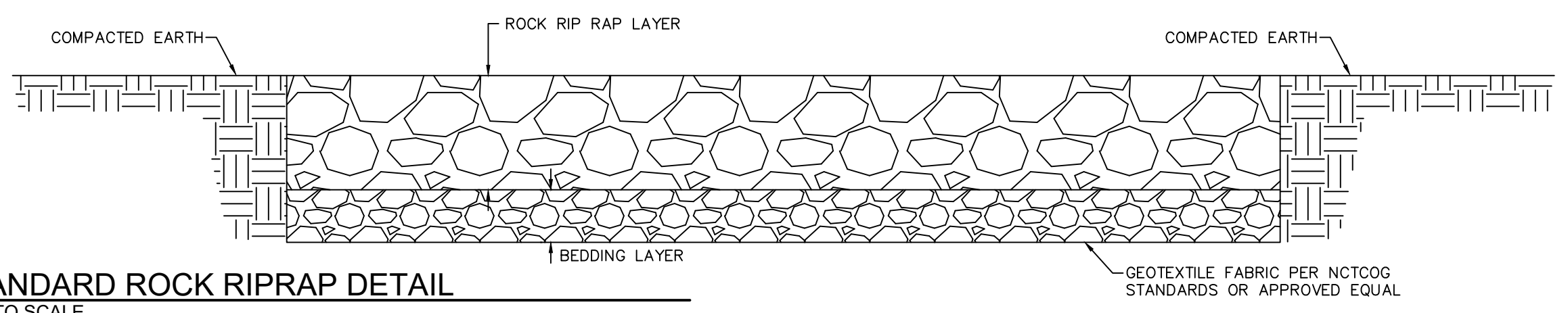
PROJECT NUMBER: 3788-00-01
PROJECT MANAGER: R. CRONIN
DRAWN BY: G. SANCHEZ
CHECKED BY: V. ARRUDA
ISSUE DATE: 7/24/2024

REV.	DATE	DESCRIP.	BY

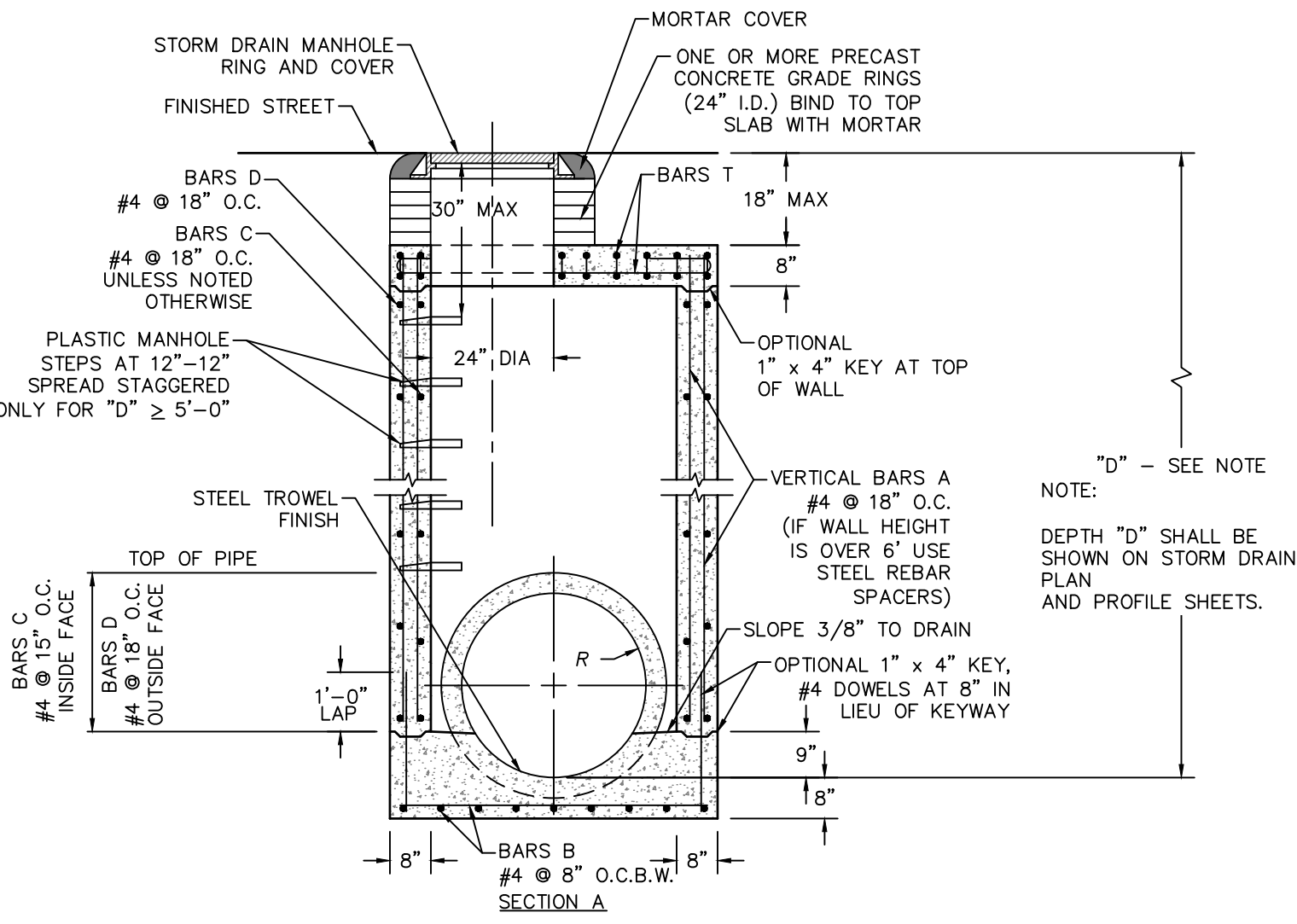
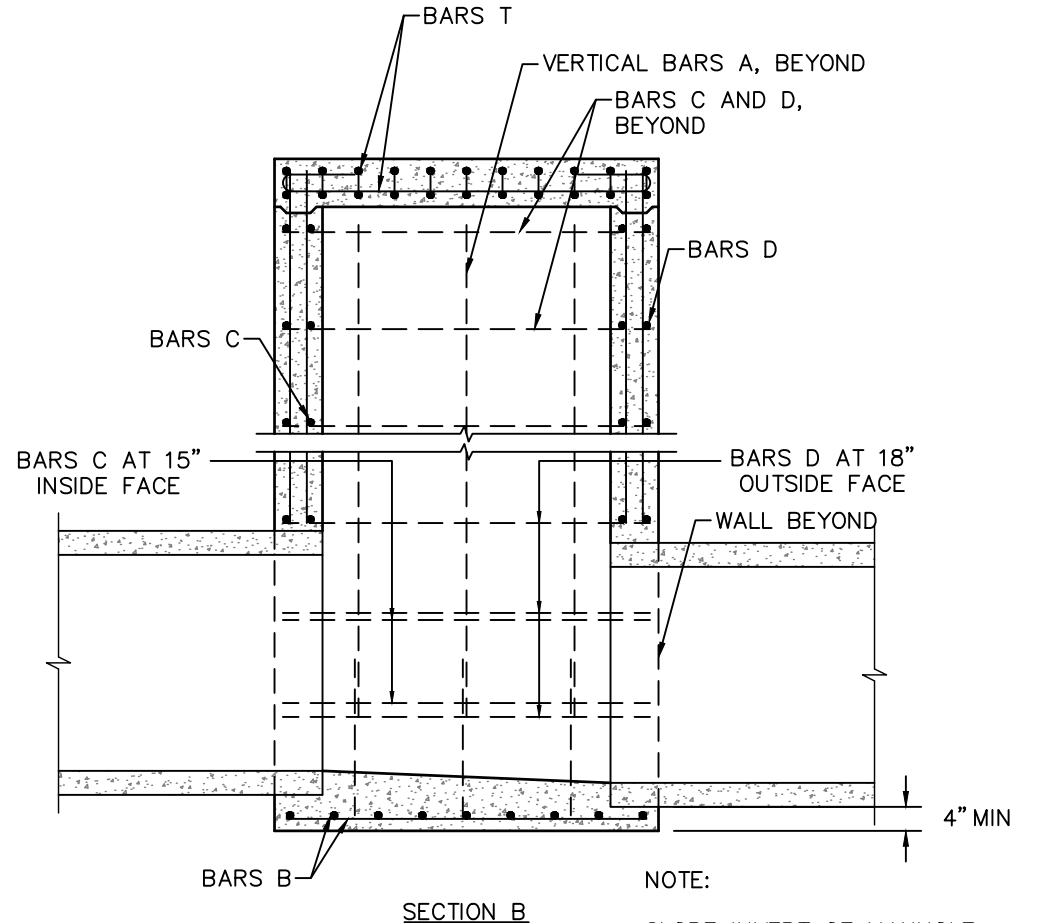
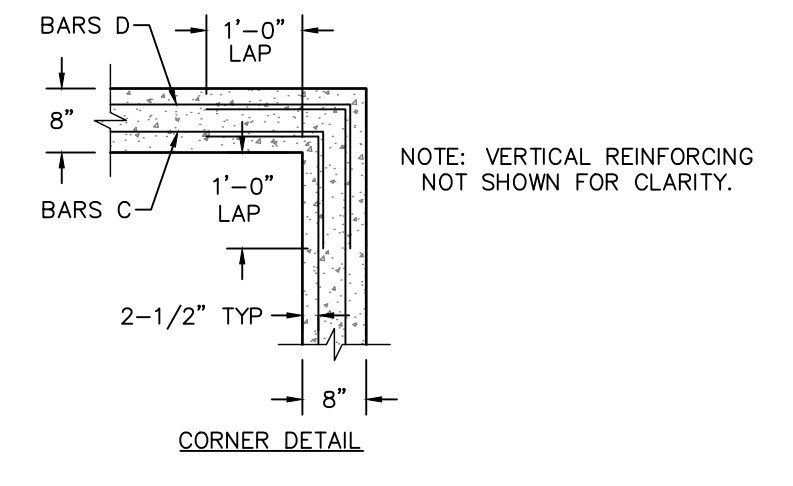
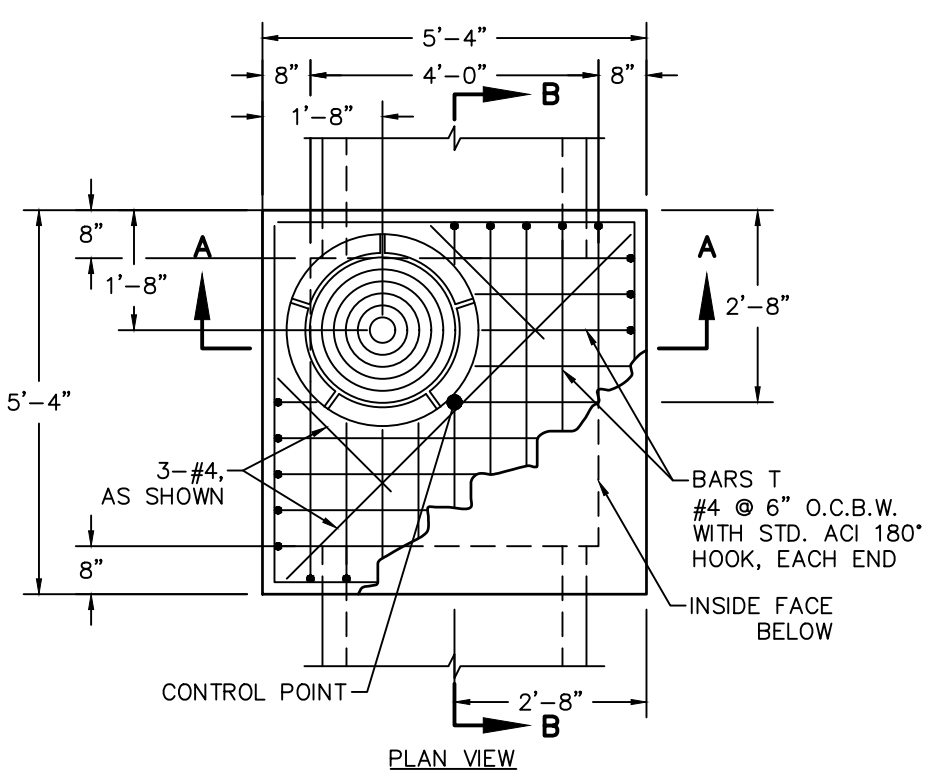
SHEET CONTENT:
STORM DRAIN DETAILS
SHEET NO:
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RIPRAP GRADATIONS	
12" THICKNESS OF RIPRAP	
SIEVE SIZE SQUARE MESH	PERCENT PASSING
15 INCH	100
12 INCH	70-100
8 INCH	45-75
6 INCH	30-55
3 INCH	10-30
1-1/2 INCH	0-10

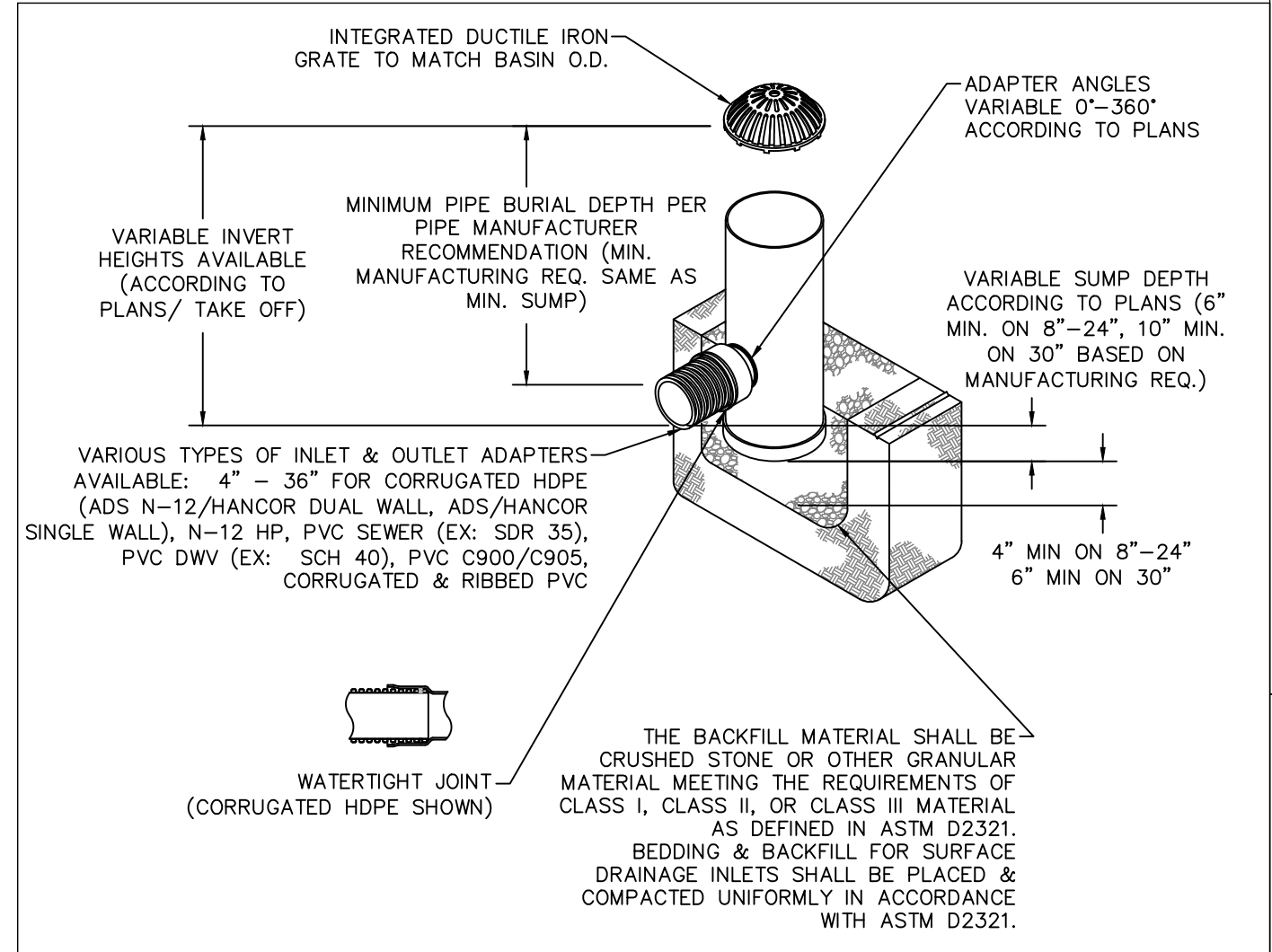
BEDDING GRADATIONS	
6" THICKNESS OF BEDDING	
SIEVE SIZE SQUARE MESH	PERCENT PASSING
3 INCH	100
1-1/2 INCH	55-100
3/4 INCH	25-60
1/2 INCH	5-30
NO.4	0-10



2 STANDARD ROCK RIPRAP DETAIL
NOT TO SCALE



1 STANDARD 4' SQUARE JUNCTION BOX
NOT TO SCALE



4 DRAIN BASIN WITH DOME GRATE
NOT TO SCALE

RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
4"	21"
6"	23"
8"	26"
10"	28"
12"	30"
15"	34"
18"	39"
24"	48"
30"	56"
36"	64"
42"	72"
48"	80"
60"	96"

MINIMUM COVER TO RIGID PAVEMENT, H

4" FOR 12"-24" PIPE
6" FOR 30"-60" PIPE

MINIMUM TRENCH WIDTH (SEE TABLE)

MAXIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS

PROP	CLASS I		CLASS II	
	COMPACT ED	DUMPED	95%	90%
4"	34	16	23	16
6"	40	19	27	19
8"	30	14	21	14
10"	34	16	23	16
12"	35	17	24	17
15"	37	18	25	18
18"	32	15	22	15
24"	27	13	19	13
30"	22	11	16	11
36"	26	12	18	12
42"	24	11	17	11
48"	23	11	16	11
60"	26	12	18	12

MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS**

PIPE DIAM.	SURFACE LIVE LOADING CONDITION	
	H-25	HEAVY CONSTRUCTION (75T AXLE LOAD)*
12" - 48"	12"	48"
60"	24"	60"

* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER
** SEE BACKFILL REQUIREMENTS IN NOTE 6

NOTES:

- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.
- MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
- FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" FOR 4"-24"; 6" FOR 30"-60".
- INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOTE LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
- MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT. FOR TRAFFIC APPLICATIONS WITH LESS THAN FOUR FEET OF COVER, EMBEDMENT OF THE PIPE SHALL BE USING ONLY A CLASS I OR CLASS II BACKFILL.

3 STORM HDPE DRAINAGE STANDARD EMBEDMENT
NOT TO SCALE

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SHEET CONTENT:

WATER DETAILS

SHEET NO:
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NOTES:

- THRUST BLOCKING AREAS SHOWN ARE BASED ON:
 - 225 PSI TEST PRESSURE
 - 3,000 PSF HORIZONTAL OR LATERAL BEARING PRESSURE FOR ACCEPTABLE SOILS
 - MINIMUM COVER OF 42"
 - A SAFETY FACTOR OF 1.5.
- THE ENGINEER SHALL PROVIDE A SEPARATE BLOCKING TABLE WHEN THE CONDITIONS DO NOT MEET THE ABOVE ASSUMPTIONS.
- THE CONTRACTOR IS REQUIRED TO PROVIDE THRUST RESTRAINT BY MEANS OF THRUST BLOCKING FOR ALL PIPES. THIS ITEM SHALL BE CONSIDERED SUBSIDIARY TO THE VARIOUS ITEMS BID.
- ALL MJ FITTINGS SHALL BE ADDITIONALLY RESTRAINED WITH RETAINER GLANDS.
- BLOCKING FOR WATER LINES LARGER THAN 24" SHALL BE DESIGNED FOR THE SPECIFIC LOCATION AND SHOWN ON THE DRAWINGS.
- ALL DUCTILE IRON FITTINGS SHALL BE WRAPPED IN POLYETHYLENE ENCASEMENT PRIOR TO PLACING OF BLOCKING.

PIPE SIZE	**X" DIM.**	PLUGS, TEES, DEAD-ENDS		90° BENDS	45° BENDS	22.5° BENDS	11.25° BENDS
		MIN. AREA (SF)	MIN. AREA (SF)	MIN. AREA (SF)	MIN. AREA (SF)	MIN. AREA (SF)	
6"	1'-6"	4.00*	4.50*	4.00*	4.00*	4.00*	4.00*
8"	1'-6"	5.65	8.00	4.33	4.00*	4.00*	4.00*
10"	1'-6"	8.84	12.50	6.76	4.00*	4.00*	4.00*
12"	1'-6"	12.72	17.99	9.74	4.96	4.00*	4.00*
16"	2'-0"	22.82	31.99	17.31	8.83	4.43	4.43
20"	2'-0"	35.34	49.88	27.05	13.79	6.93	6.93
24"	2'-0"	50.89	71.97	38.95	19.86	9.98	9.98

*MINIMUM THRUST BLOCKING SURFACE AREA SHALL BE 4 SQUARE FEET.
**DIMENSION "X" TO BE A MINIMUM OF ONE FOOT AND SIX INCHES, BUT IS TO BE INCREASED WHERE NECESSARY TO PROVIDE BEARING AGAINST UNDISTURBED TRENCH WALL.

3 HORIZONTAL THRUST BLOCKING
NOT TO SCALE

NOTES:

- FIRE HYDRANTS SHALL CONFORM TO AWWA STANDARD SPECIFICATIONS FOR FIRE HYDRANTS FOR ORDINARY WATER WORKS SERVICE, C-502. FIRE HYDRANTS SHALL HAVE A 5" MIN. VALVE OPENING AND A BARREL APPROXIMATELY 7" INSIDE DIAMETER. ALL HYDRANTS SHALL BE EQUIPPED WITH A BREAKAWAY FLANGE.
- ALL JOINTS SHALL BE MECHANICAL JOINTS.
- TYPICAL VALVE: ACTUAL VALVE LOCATIONS WILL DEPEND ON LOCATION OF WATER MAIN.
- FIRE HYDRANTS SHALL BE NO CLOSER THAN 18" TO EXISTING OR PROPOSED SIDEWALKS.
- STANDARD BURY DEPTH IS 4'.
- SET FIRE HYDRANT ON THE LOT LINE EXTENDED WHEN POSSIBLE.
- FIRE HYDRANT SHALL BE LOCATED MINIMUM 1' OUTSIDE OF THE AREA BETWEEN THE P.C.'S OF THE CORNER TURNING RADII AT INTERSECTIONS. (SEE PLAN VIEW)
- PLACEMENT OF FIRE HYDRANT SHALL BE WHERE PUMPER NOZZLE IS PERPENDICULAR TO AND FACING THE NEAREST CURB.

2 FIRE HYDRANT INSTALLATION
NOT TO SCALE

NOTES:

- GATE VALVES SHALL BE RESILIENT SEATED.
- PROVIDE 3" MIN. OF COVER OVER REINFORCEMENT IN ALL DIRECTIONS.
- COLLARS SHALL BE 4,000 PSI.
- A CONCRETE COLLAR IS NOT REQUIRED WHEN VALVE IS LOCATED UNDER CONCRETE PAVING.

1 STANDARD WATER DISTRIBUTION GATE VALVE & BOX
NOT TO SCALE

NOTES:

- VERTICAL TIE-DOWN BLOCKING VOLUMES SHOWN ARE BASED ON:
 - 225 PSI TEST PRESSURE
 - 150 PCF CONCRETE DENSITY
 - A SAFETY FACTOR OF 1.5.
- BAR QUANTITIES ARE BASED ON:
 - 30 KSI #4 STEEL REINFORCEMENT BAR
 - A FACTOR OF SAFETY OF 1.5
 - "L" SHALL BE A MINIMUM OF 18"
- THE ENGINEER SHALL PROVIDE A SEPARATE VERTICAL TIE-DOWN BLOCKING TABLE WHEN THE CONDITIONS DO NOT MEET THE ABOVE ASSUMPTIONS.
- THE CONTRACTOR IS REQUIRED TO PROVIDE THRUST RESTRAINT BY MEANS OF VERTICAL TIE-DOWN BLOCKING FOR ALL PIPES. THIS ITEM SHALL BE CONSIDERED SUBSIDIARY TO THE VARIOUS ITEMS BID.
- ALL MJ FITTINGS SHALL BE ADDITIONALLY RESTRAINED WITH RETAINER GLANDS.
- WIDTHS, LENGTHS AND DEPTHS MAY VARY BUT SATISFACTION OF ABOVE MINIMUM VOLUMES MUST BE DEMONSTRATED.
- KEEP CONCRETE CLEAR OF PIPE JOINTS AND BOLTS.
- VERTICAL TIE-DOWN BLOCKING FOR LINES 16" AND LARGER SHALL BE DESIGNED FOR THE SPECIFIC LOCATION AND SHOWN ON THE DRAWINGS.
- ALL DUCTILE IRON FITTINGS SHALL BE WRAPPED IN POLYETHYLENE ENCASEMENT PRIOR TO PLACING OF BLOCKING.

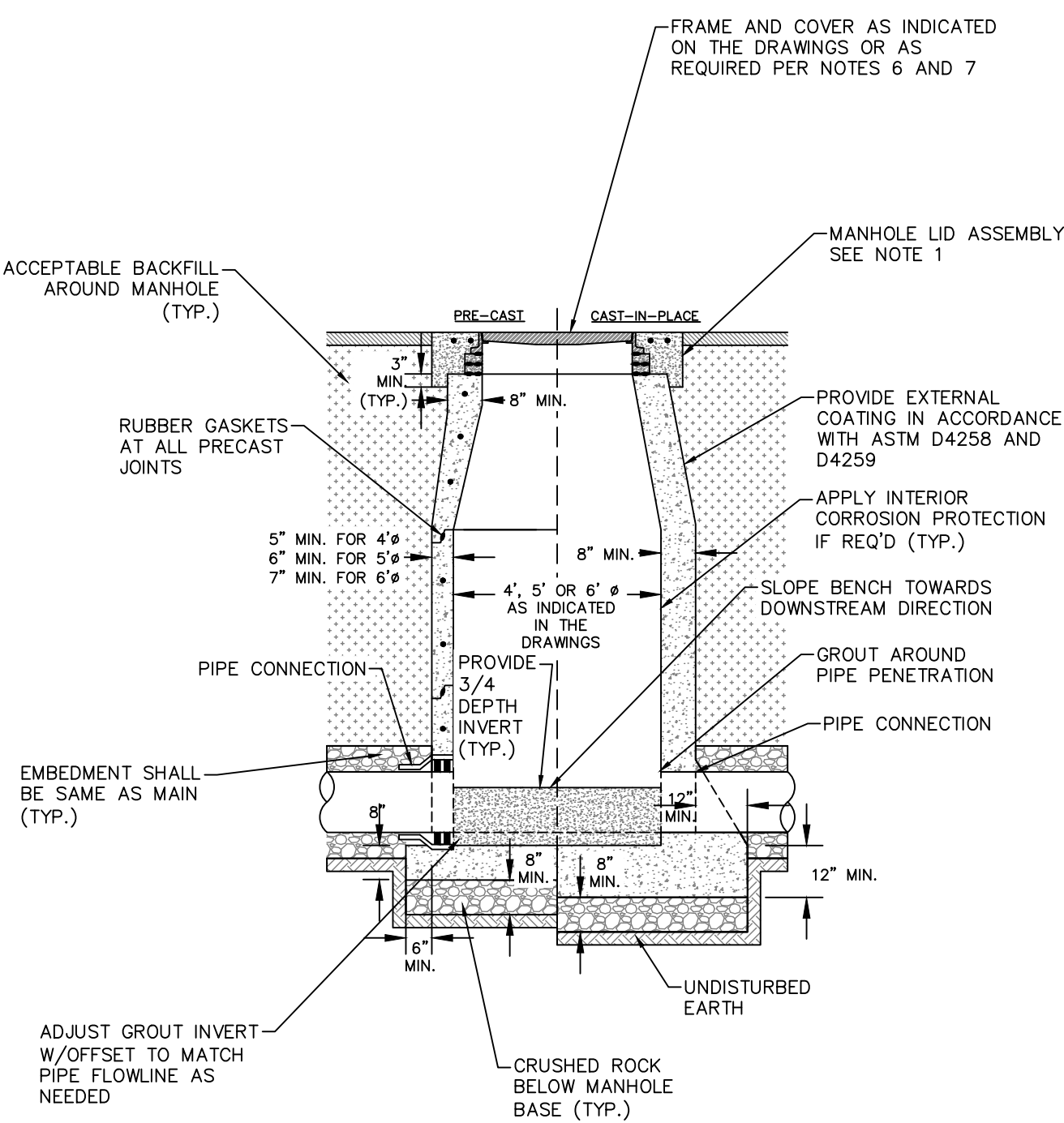
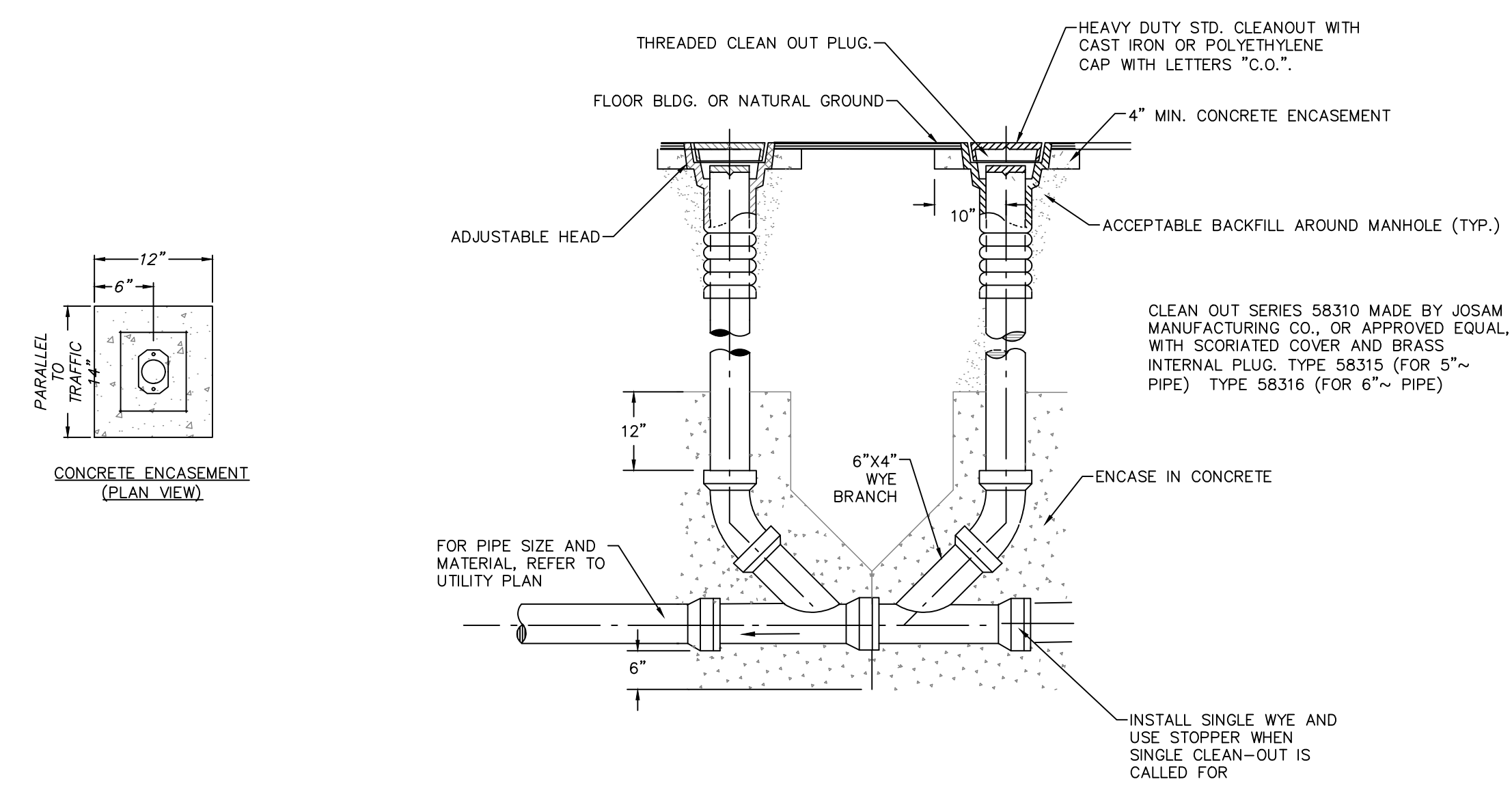
PIPE SIZE	90° BENDS	45° BENDS		22.5° BENDS		11.25° BENDS	
		MIN. VOLUME (CF)	MIN. #4 BARS	MIN. VOLUME (CF)	MIN. #4 BARS	MIN. VOLUME (CF)	MIN. #4 BARS
6"	ALL 90° BENDS	48.69	1	24.82	1	12.47	1
8"	SHALL BE RESTRAINED	86.56	2	44.13	1	22.17	1
10"	SHALL BE RESTRAINED	135.25	3	68.95	2	34.64	1
12"	SHALL BE RESTRAINED	194.76	4	99.29	2	49.88	1

4 VERTICAL THRUST BLOCKING
NOT TO SCALE

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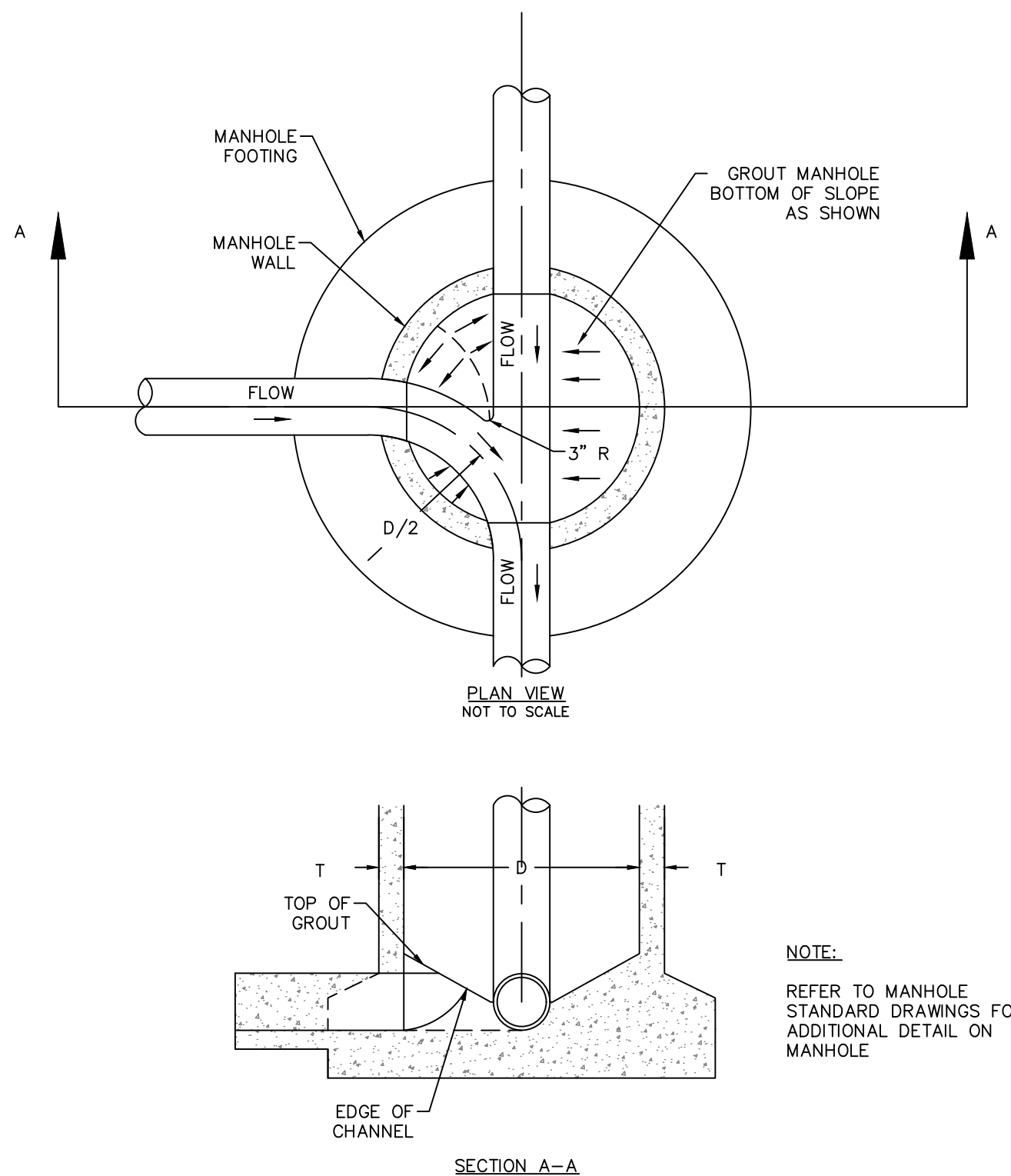
ST. TERESA OF CALCUTTA CATHOLIC CHURCH
 FORT WORTH, TEXAS
 SEWER DETAILS

3 CLEAN OUT
 NOT TO SCALE



- NOTES:
1. MANHOLE TOP SHALL BE PER MANHOLE LID ASSEMBLY DETAILS AS INDICATED IN THE DRAWINGS.
 2. FOR CAST-IN-PLACE MANHOLES, CURE FOR THREE DAYS BEFORE BACKFILLING AROUND STRUCTURE.
 3. IF SOIL CONDITIONS OR GROUND WATER PREVENT USE OF COARSE AGGREGATE BASE A 2-INCH MUD SLAB MAY BE SUBSTITUTED.
 4. PRE-CAST JOINTS SHALL CONFORM TO ASTM C478.
 5. UNLESS OTHERWISE INDICATED IN THE DRAWINGS, 4" MANHOLES SHALL BE USED FOR 21" AND SMALLER SANITARY SEWER LINES AND 5" MANHOLES SHALL BE USED 24" UP TO 36" SANITARY SEWER LINES.
 6. HINGED LIDS SHALL BE REQUIRED FOR ALL SANITARY SEWER MANHOLES WITH CONNECTING LINES OF 24-INCHES AND GREATER.
 7. HINGED LIDS SHALL BE REQUIRED FOR ALL SANITARY SEWER MANHOLES WITH A RIM ELEVATION GREATER THAN 12-INCHES ABOVE NATURAL GROUND.

2 STANDARD MANHOLE
 NOT TO SCALE



1 WASTEWATER MANHOLE LINE INTERSECTION
 NOT TO SCALE

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7/24/2024
 STATE OF TEXAS
 VALERIE ARRUDA
 151600
 LICENSED PROFESSIONAL ENGINEER
 FOR BID ONLY

PROJECT NUMBER:	3788-00-01
PROJECT MANAGER:	R. CRONIN
DRAWN BY:	G. SANCHEZ
CHECKED BY:	V. ARRUDA
ISSUE DATE:	7/24/2024

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SEWER DETAILS

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