

CITY OF SEGUIN

SIDEWALK IMPROVEMENTS PROJECT

SOUTH AUSTIN STREET, EAST COURT STREET & WEST NOLTE STREET

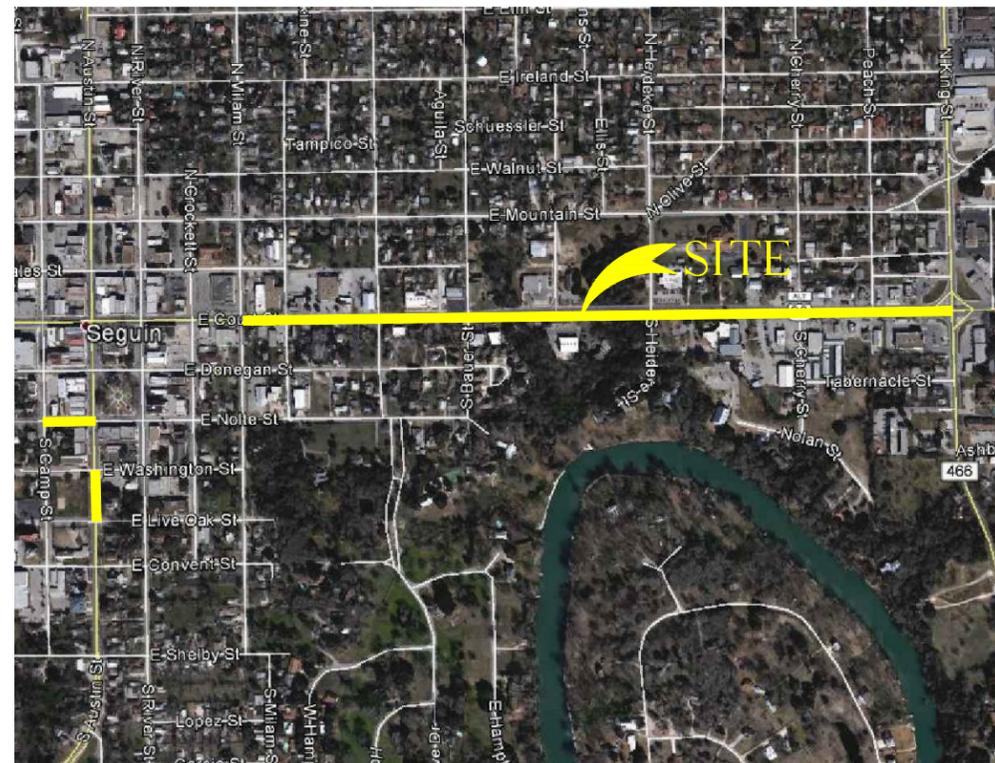
BID NUMBER TF-2016-03

OCTOBER, 2015



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VICINITY MAP
NOT TO SCALE



M & S

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GENERAL NOTES:

1. CONSTRUCTION INSPECTOR SHALL BE NOTIFIED 48-HOURS PRIOR TO THE START OF CONSTRUCTION
2. BLASTING IS NOT PERMITTED ON THIS PROJECT.
3. ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.
4. THESE PLANS DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE REGISTERED PROFESSIONAL ENGINEER(S) HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED IN THE WORK.
5. THE TRENCH EXCAVATION AND SHORING SAFETY SYSTEM, AS OUTLINED IN THE TECHNICAL SPECIFICATIONS, WILL BE REQUIRED AS A MINIMUM TRENCH SAFETY MEASURE.
6. CONTRACTOR SHALL ASSURE HIMSELF THAT ALL CONSTRUCTION PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK. REQUIRED PERMITS THAT CAN ONLY BE ISSUED TO CONTRACTOR ARE TO BE OBTAINED AT THE CONTRACTORS EXPENSE.
7. CONTRACTOR SHALL GIVE A MINIMUM OF 48 HOURS NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK.
8. CONTRACTOR SHALL TAKE ALL DUE PRECAUTIONS TO PROTECT EXISTING FACILITIES FROM DAMAGE. ANY DAMAGE TO EXISTING FACILITIES INCURRED AS A RESULT OF THESE CONSTRUCTION OPERATIONS ARE TO BE REPAIRED IMMEDIATELY BY THE CONTRACTOR TO AT LEAST THE PRE-EXISTING CONDITION AT NO ADDITIONAL COST TO OWNER.
9. LOCATION OF EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATE. NO WARRANTY IS IMPLIED AS TO THE ACTUAL LOCATION OF EXISTING UTILITIES. CONTRACTOR TO FIELD VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
10. WHEN UNLOCATED OR INCORRECTLY LOCATED UNDERGROUND PIPING OR A BREAK IN A LINE OR OTHER UTILITIES AND SERVICES ARE ENCOUNTERED DURING SITE WORK OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE APPLICABLE UTILITY COMPANY IMMEDIATELY TO OBTAIN PROCEDURE DIRECTIONS. THE CONTRACTOR SHALL COOPERATE WITH THE APPLICABLE UTILITY COMPANY IN MAINTAINING ACTIVE SERVICES IN OPERATION.
11. THE CONTRACTOR SHALL MAINTAIN ACCESS TO PUBLIC AND PRIVATE FACILITIES DURING CONSTRUCTION. CONSTRUCTION ACTIVITIES TO BE COORDINATED WITH THE OWNER.
12. THE CONTRACTOR SHALL COORDINATE INTERRUPTIONS OF ALL UTILITIES AND SERVICES WITH APPLICABLE UTILITY COMPANY OR COMPANIES. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY COMPANY OR AGENCY INVOLVED.
13. THE CONTRACTOR SHALL LOCATE, PROTECT, AND MAINTAIN BENCHMARKS, MONUMENTS, AND CONTROL POINTS. RE-ESTABLISH DISTURBED OR DESTROYED ITEMS BY REGISTERED PUBLIC SURVEYOR IN THE STATE OF TEXAS AT NO ADDITIONAL COST TO OWNER.
14. EXISTING PAVING, BUILDING, AND OTHER ITEMS SHOWN ON THESE PLANS NOT SPECIFICALLY RELATED TO THE WORK OF THE CONTRACTOR IS FOR INFORMATION ONLY.
15. DEMOLITION PERMITS (IF NEEDED) ARE TO BE OBTAINED BY THE CONTRACTOR.
16. EXISTING SURFACE AND SUBSURFACE STRUCTURES (GAS MAINS, WATER MAINS, STORM SEWER, TELEPHONE CABLES, ETC.) ARE SHOWN ON THE PLANS IF THEIR LOCATION HAS BEEN DETERMINED, BUT IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO AVOID DAMAGING THESE EXISTING STRUCTURES WHETHER OR NOT THEY ARE SHOWN ON THE PLANS. THE OWNER AND ENGINEER ASSUME NO RESPONSIBILITY FOR FAILURE TO SHOW ANY OR ALL OF THESE STRUCTURES ON THE PLANS OR TO SHOW THEM IN THEIR EXACT LOCATION. IF ANY STRUCTURE IS DAMAGED BY THE CONTRACTOR, IT SHALL BE HIS RESPONSIBILITY TO REPAIR THE DAMAGE AT HIS EXPENSE AND RESTORE THE STRUCTURE TO IT'S ORIGINAL CONDITION.
17. THE ORIGINAL PLANS FOR THIS PROJECT WERE PREPARED ON HALF SIZE STANDARD SHEETS (11 INCH x 17 INCH). THE SPECIFIC SCALE FOR THE INDIVIDUAL UNITS WOULD BE TRUE ONLY ON THE ORIGINAL TRACING. REPRODUCED COPIES, REDUCTIONS OR OTHER METHODS OF PRINTING MAY CHANGE OR ALTER THE SCALE. THE ENGINEER IS NOT RESPONSIBLE FOR SCALE DIMENSIONS UTILIZED BY OTHERS ON THESE PLANS.
18. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY LOCATIONS, ELEVATIONS AND DIMENSIONS OF ADJACENT AND/OR CONFLICTING UTILITIES IN ADVANCE OF CONSTRUCTION IN ORDER THAT ADJUSTMENTS CAN BE MADE TO PROVIDE ADEQUATE CLEARANCE, IF REQUIRED. THE CONTRACTOR SHALL PRESERVE AND PROTECT PUBLIC UTILITIES AT ALL TIMES DURING CONSTRUCTION. ANY DAMAGE TO UTILITIES RESULTING FROM THE CONTRACTORS OPERATIONS SHALL BE RESTORED AT HIS EXPENSE. THE ENGINEER SHALL BE NOTIFIED WHEN PROPOSED FACILITY GRADES CONFLICT WITH EXISTING UTILITY GRADES.
19. ALL CONCEPTS, IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THESE INSTRUMENTS, AS OUTLINED ON THE TITLE SHEET INDEX, AND BY ANY ADDENDUM ARE OWNED BY AND ARE THE PROPERTY OF M & S ENGINEERING, L.L.C. AND WERE CREATED AND DEVELOPED FOR THE USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. THESE CONCEPTS, IDEAS, DESIGN, ARRANGEMENTS, OR PLANS SHALL NOT BE USED BY ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION AND CONSENT OF M & S ENGINEERING, L.L.C. OF SPRING BRANCH, TEXAS.
20. CONTRACTOR SHALL NOTIFY THE TEXAS ONE CALL CENTER PRIOR TO ANY CONSTRUCTION.

GENERAL ENVIRONMENTAL NOTES:

1. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REQUIREMENTS REGARDING EXCESS AND WASTE MATERIALS, INCLUDING METHODS OF HANDLING AND DISPOSAL.
2. CONTRACTOR SHALL LOCATE MATERIAL STORAGE AREAS AWAY FROM STORM WATER CONVEYANCE SYSTEMS. PROVIDE PROTECTED STORAGE AREAS FOR CHEMICALS, PAINTS, SOLVENTS, FERTILIZERS, AND OTHER POTENTIALLY TOXIC MATERIALS.
3. FUEL STORAGE IS NOT ALLOWED ON THIS PROJECT.
4. THE CONTRACTOR SHALL ADVISE OWNER IMMEDIATELY, VERBALLY AND IN WRITING, OF ANY FUEL OR TOXIC MATERIALS SPILLS WITHIN THE PROJECT/CONSTRUCTION AREA AND THE ACTIONS TO BE TAKEN TO REMEDY THE PROBLEM.
5. THE CONTRACTOR SHALL DISPOSE OF FUELS, HAZARDOUS MATERIALS, AND CONTAMINATED EXCAVATIONS IN A LEGALLY APPROVED MANNER.
6. NO OPEN BURNING IS ALLOWED ON THIS PROJECT.

UTILITY NOTES:

1. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF THE UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND AVOIDING ALL EXISTING UTILITIES.
2. CONTRACTOR IS RESPONSIBLE FOR VERTICAL CONTROL OF ALL UTILITIES, AND SHALL ADJUST AS NEEDED.
3. ALL UTILITY TRENCH COMPACTION TESTS WITHIN THE STREET PAVEMENT SECTION SHALL BE THE RESPONSIBILITY OF THE DEVELOPER'S GEO-TECHNICAL ENGINEER. FILL MATERIAL SHALL BE PLACED IN UNIFORM LAYERS NOT TO EXCEED TWELVE INCHES (12") LOOSE. EACH MATERIAL SHALL BE COMPACTED AS SPECIFIED AND TESTED FOR DENSITY AND MOISTURE IN ACCORDANCE WITH TEST METHODS TEX-113-E, TEX-114-E, TEX-115-E. THE NUMBER OF LOCATIONS THAT ARE REQUIRED SHALL BE DETERMINED BY THE GEO-TECHNICAL ENGINEER AND APPROVED BY THE STREET INSPECTOR. UPON COMPLETION OF TESTING THE GEO-TECHNICAL ENGINEER SHALL PROVIDE THE STREET INSPECTOR WITH ALL TESTING DOCUMENTATION AND A CERTIFICATION STATING THAT THE PLACEMENT OF FILL MATERIAL HAS BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.

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 TEXAS REGISTERED ENGINEERING FIRM # 15342-020

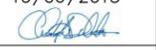


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10/06/2015


CITY OF SEGUIN SIDEWALK IMPROVEMENTS PROJECT
 GENERAL NOTES

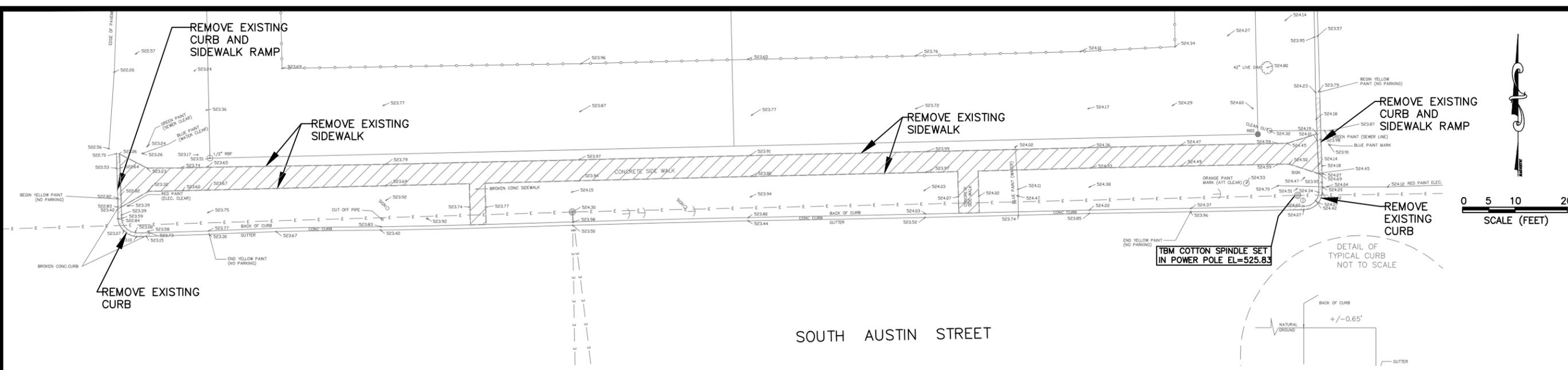
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REVISIONS:	
DELTA	DESCRIPTION

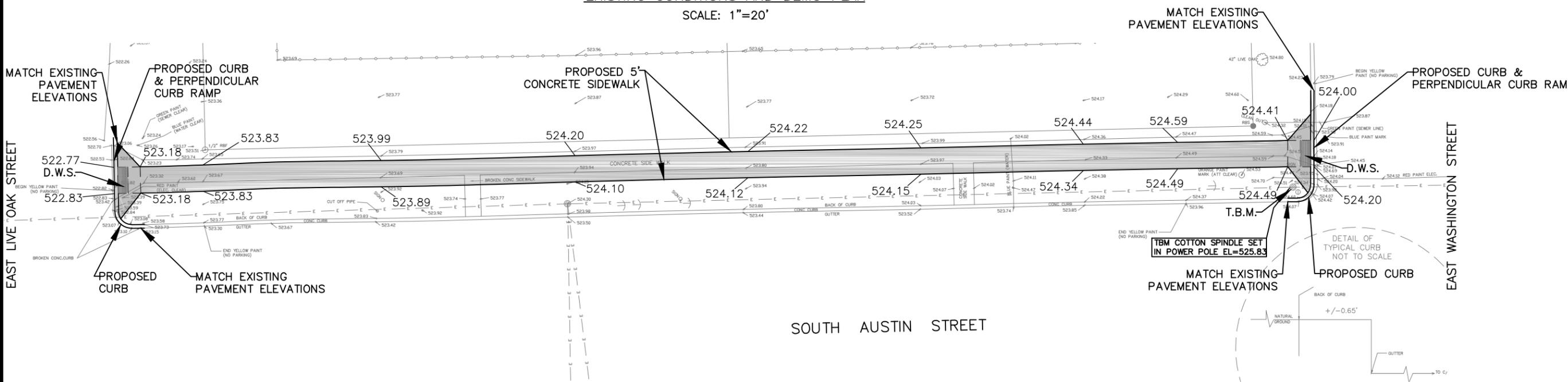
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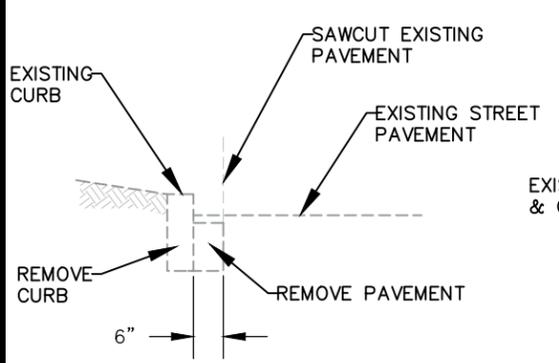
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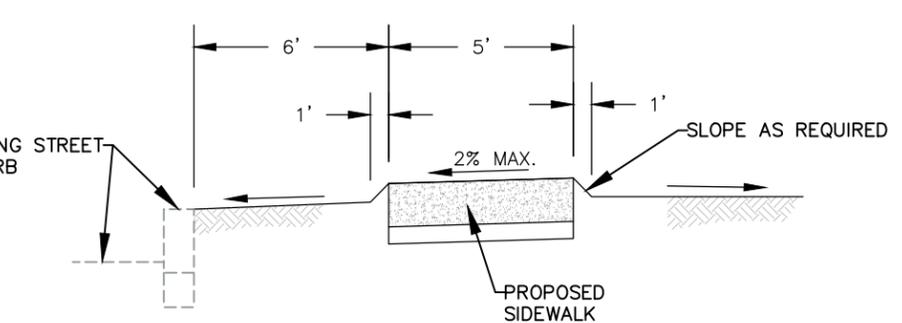
EXISTING CONDITIONS AND DEMO PLAN
SCALE: 1"=20'



SIDEWALK PLAN
SCALE: 1"=20'



TYPICAL CURB REMOVAL DETAIL
SCALE: NTS



TYPICAL SIDEWALK SECTION
SCALE: NTS

Estimated Quantities		
Description	Unit of Measure	Quantity
Concrete Sidewalk, Curb, and Pavement Demolition and Disposal	S.F.	1,031
Construct Reinforced Concrete Sidewalk	S.F.	1,133
Construct Perpendicular Curb Ramp (Type 1)	EA.	2
Install Detectable Warning Surface (D.W.S.)	S.F.	20
Construct Reinforced Concrete Curb	L.F.	47
Replace Asphaltic Concrete Pavement at New Curb	S.F.	24
Sidewalk and Curb Demo and Disposal in Unspecified Areas	S.F.	1,000
Construct Sidewalk in Unspecified Areas	S.F.	1,000
Construct Curb in Unspecified Areas	L.F.	50
Install D.W.S. in Unspecified Areas	S.F.	100

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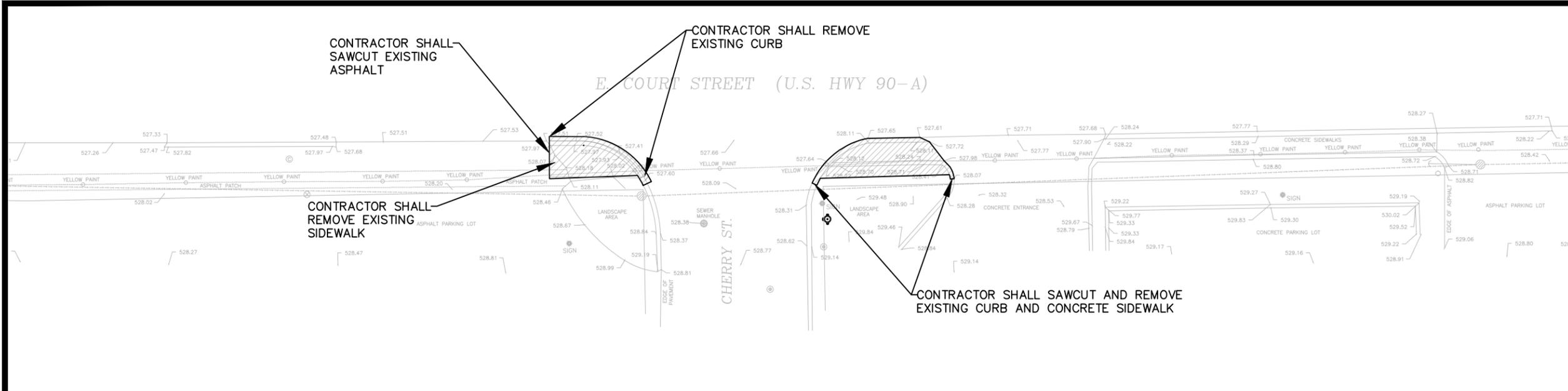
CITY OF SEGUIN SIDEWALK IMPROVEMENTS PROJECT

SOUTH AUSTIN STREET SIDEWALK PLAN

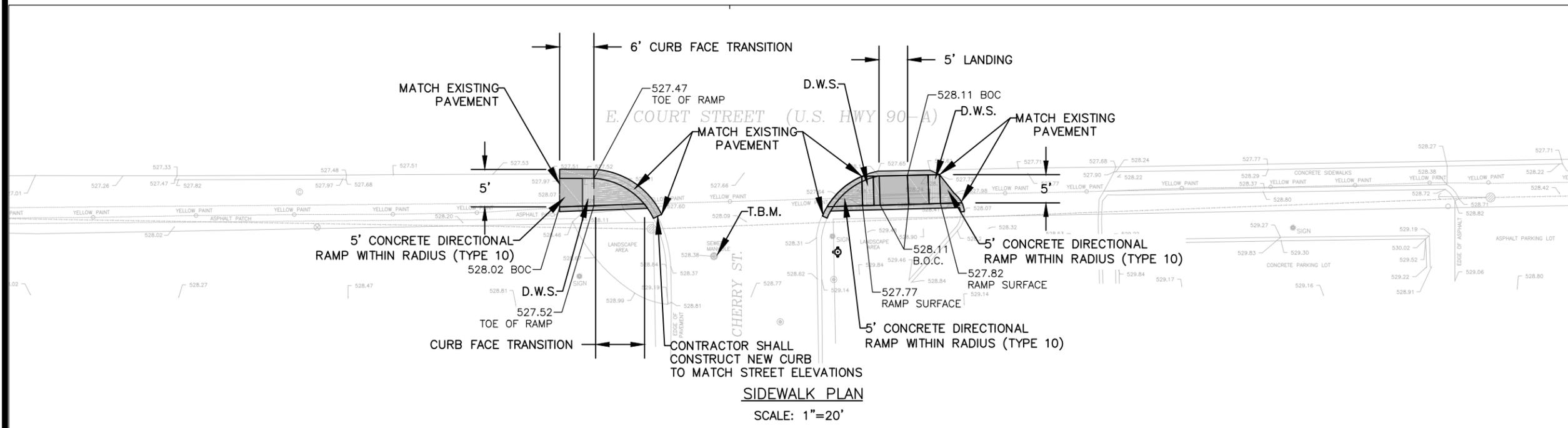
JOB: 15C05002
DATE: MAY 20, 2015

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DESIGN: DM:
PEER: OTHER:

REVISIONS:
DELTA DESCRIPTION



EXISTING CONDITIONS AND DEMO PLAN
SCALE: 1"=20'



SIDEWALK PLAN
SCALE: 1"=20'

T.B.M. _____ EL. 528.38
TOP OF SANITARY SEWER MANHOLE COVER

Estimated Quantities		
Description	Unit of Measure	Quantity
Concrete Sidewalk, Curb, and Pavement Demolition and Disposal	S.F.	229
Construct Directional Ramp within Radius (Type 10)	EA.	3
Install Detectable Warning Surface (D.W.S.)	S.F.	30
Construct Reinforced Concrete Curb	L.F.	49
Replace Asphaltic Concrete Pavement at New Curb	S.F.	25



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CITY OF SEGUIN SIDEWALK IMPROVEMENTS PROJECT
EAST COURT STREET AT CHERRY STREET
SIDEWALK PLAN

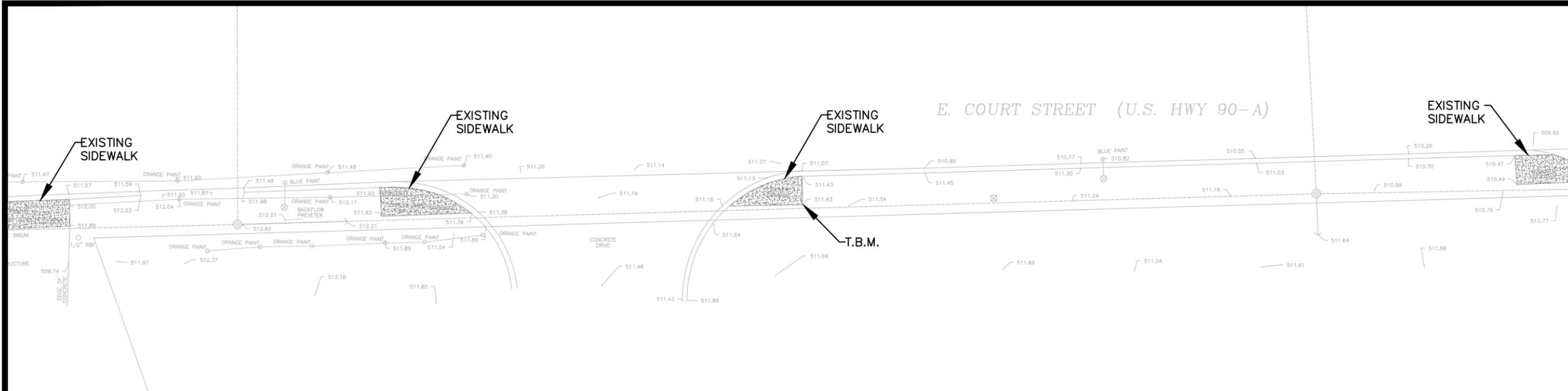
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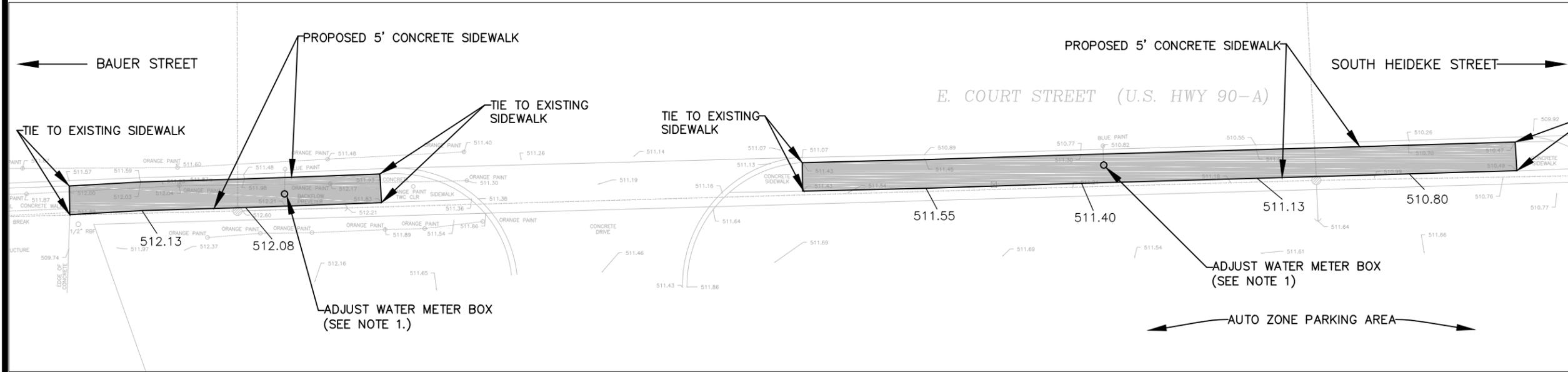
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EXISTING CONDITIONS PLAN
SCALE: 1"=20'



SIDEWALK PLAN
SCALE: 1"=20'

NOTES:

- IF EXISTING METER BOX IS SERVICABLE AND RATED FOR FOOT TRAFFIC, IT SHALL BE MOVED & INSET WITHIN SIDEWALK SO THAT THE TOP OF THE BOX IS FLUSH WITH TOP OF CONCRETE. OTHERWISE, THE OLD BOX SHALL BE REPLACED AND INSTALLED IN A SIMILAR MANNER WITH A NEW METER BOX (MODEL C.H. 5/8x3/4 CONCRETE METER BOX AS MFD. BY SOUTHERN METER BOX CO., OR APPROVED EQUIVALENT).

T.B.M. _____ EL. 511.43
CORNER OF EXISTING CONCRETE SIDEWALK

Estimated Quantities		
Description	Unit of Measure	Quantity
Construct Reinforced Concrete Sidewalk	S.F.	898
Adjust Water Meter Box at Proposed Sidewalk	Ea.	2

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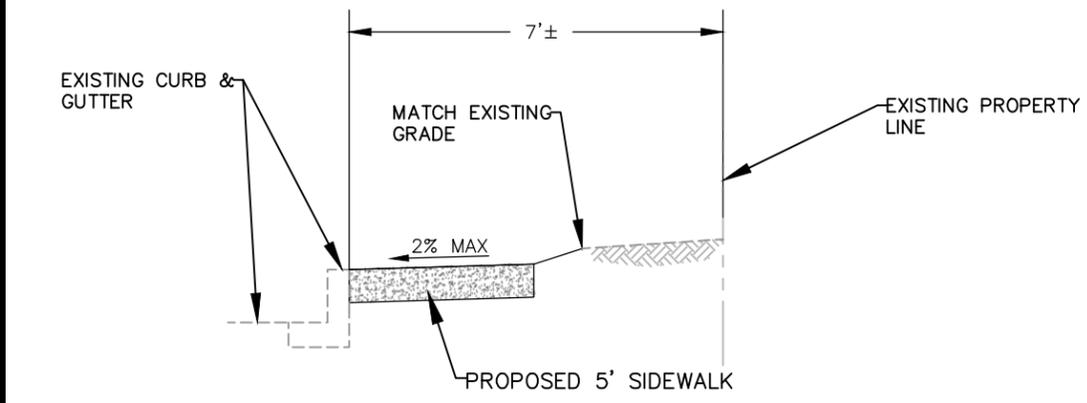
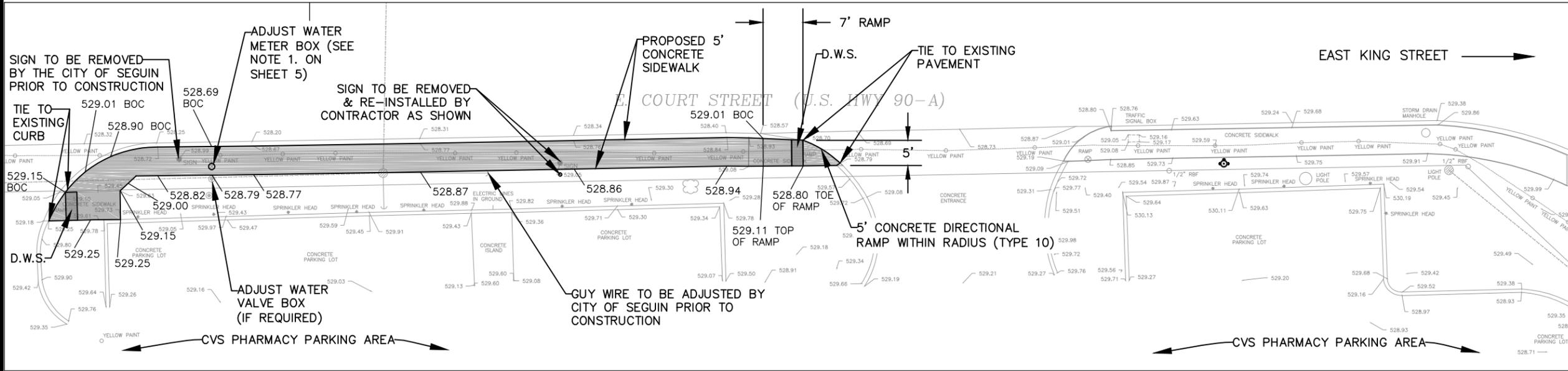
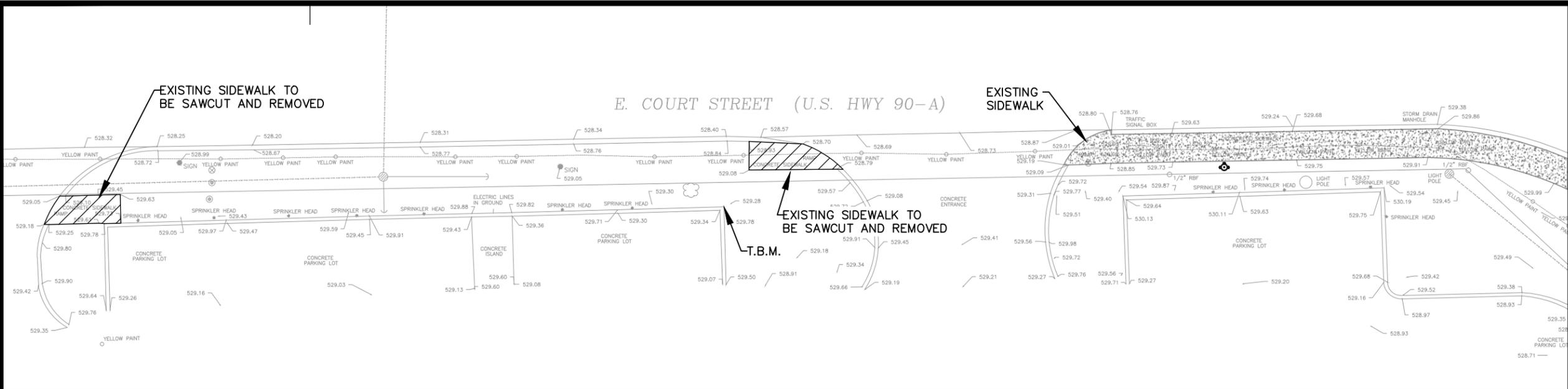
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10/06/2015

CITY OF SEGUIN SIDEWALK IMPROVEMENTS PROJECT
EAST COURT STREET NEAR AUTO ZONE STORE
SIDEWALK PLAN

JOB: 15C05002
DATE: MAY 20, 2015
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DESIGN: _____ DM:
PEER: _____ OTHER: _____

REVISIONS:	
DELTA	DESCRIPTION

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T.B.M. EL. 529.78
TOP CORNER OF EXISTING CONCRETE CURB

Estimated Quantities		
Description	Unit of Measure	Quantity
Construct Reinforced Concrete Sidewalk	S.F.	692
Install Detectable Warning Surface (D.W.S.)	S.F.	20
Concrete Sidewalk, Curb, and Pavement Demolition and Disposal	S.F.	124
Construct Directional Ramp within Radius (Type 10)	Ea.	1
Remove and Reinstall Existing Street Sign and Pole	Ea.	1
Adjust Water Valve Box at Proposed Sidewalk	Ea.	1
Adjust Water Meter Box at Proposed Sidewalk	Ea.	1

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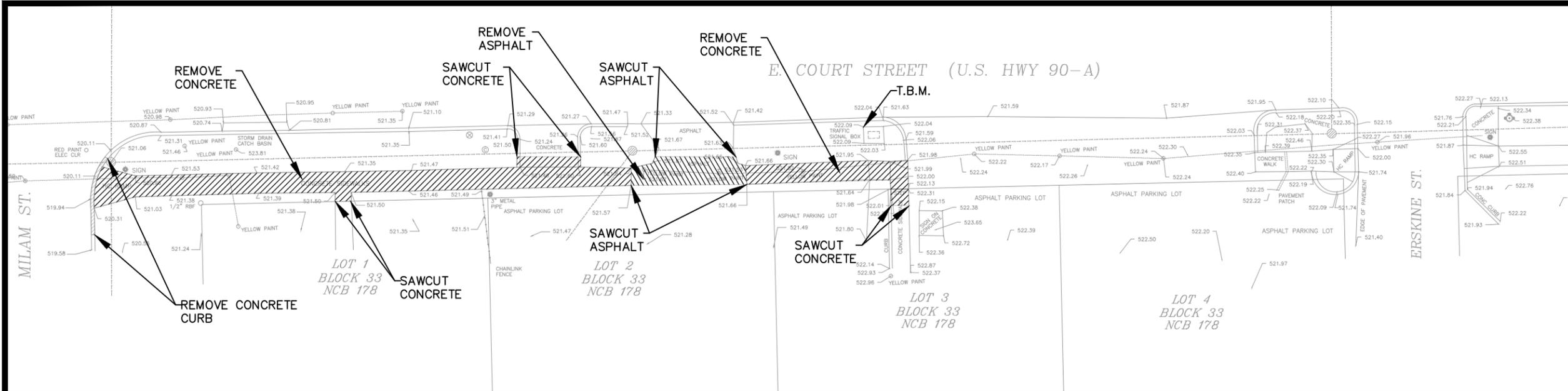
CITY OF SEGUIN SIDEWALK IMPROVEMENTS PROJECT
EAST COURT STREET NEAR CVS PHARMACY STORE
SIDEWALK PLAN

JOB: 15C05002
DATE: MAY 20, 2015

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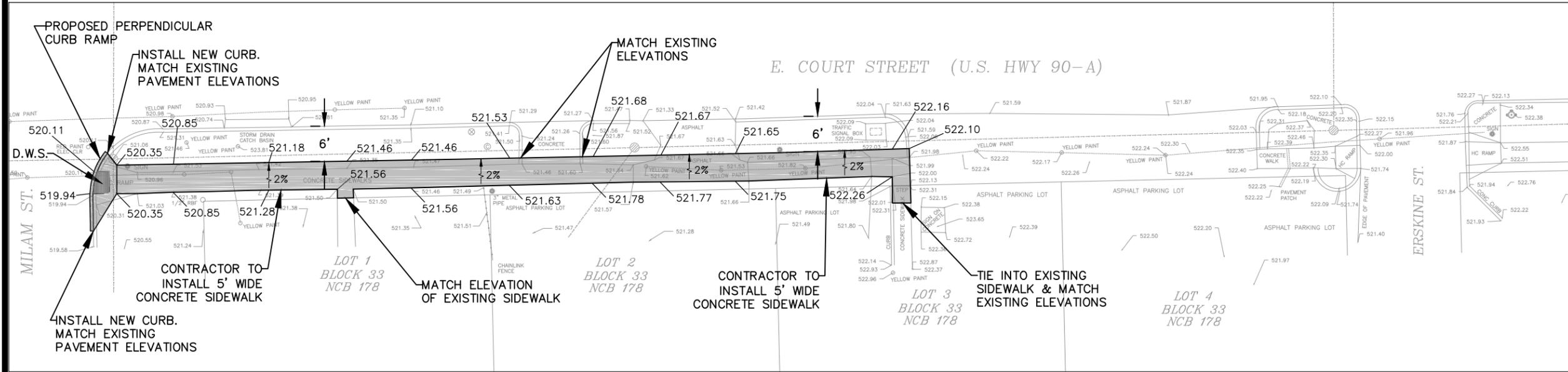
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EXISTING CONDITIONS AND DEMO PLAN

SCALE: 1"=20'



SIDEWALK PLAN

SCALE: 1"=20'

T.B.M. EL. 522.09
CORNER OF CONCRETE PAD AT EXISTING TRAFFIC SIGNAL BOX

Estimated Quantities		
Description	Unit of Measure	Quantity
Concrete Sidewalk, Curb, and Pavement Demolition and Disposal	S.F.	488
Asphalt Pavement Demolition and Disposal	S.F.	48
Construct Reinforced Concrete Sidewalk	S.F.	684
Construct Perpendicular Curb Ramp (Type 1)	EA.	1
Install Detectable Warning Surface (D.W.S.)	S.F.	10
Construct Reinforced Concrete Curb	L.F.	15
Replace Asphaltic Concrete Pavement at New Curb	S.F.	8

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CITY OF SEGUIN SIDEWALK IMPROVEMENTS PROJECT
EAST COURT STREET AT MILAM STREET
SIDEWALK PLAN

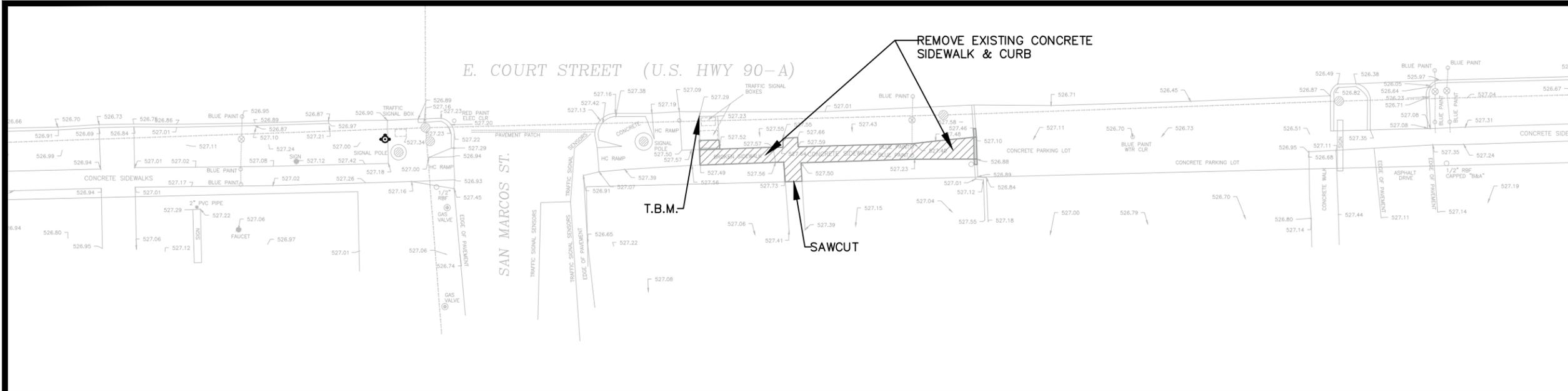
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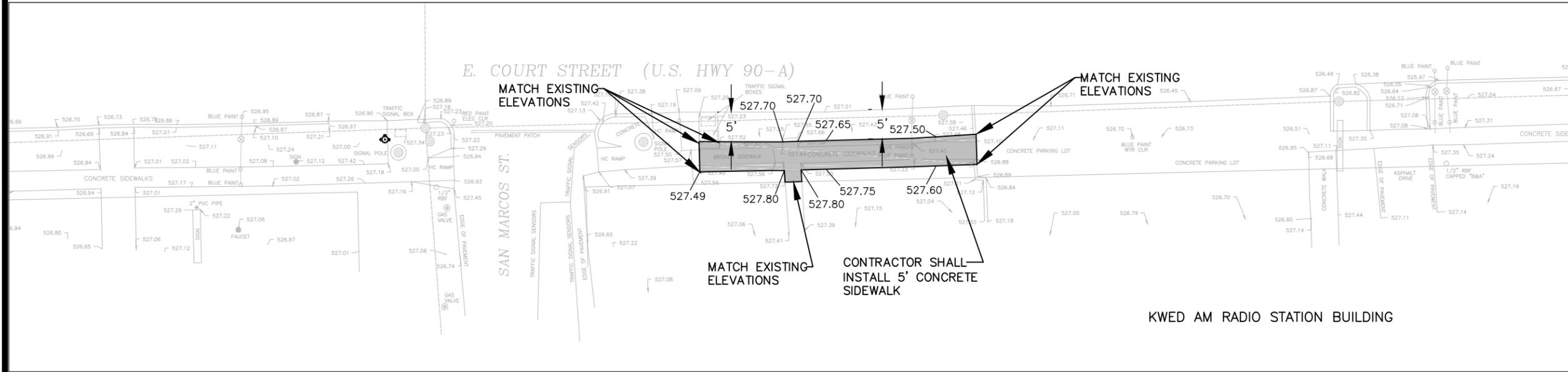
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EXISTING CONDITIONS AND DEMO PLAN

SCALE: 1"=20'



SIDEWALK PLAN

SCALE: 1"=20'

T.B.M. _____ EL. 527.29
CORNER OF CONCRETE PAD AT EXISTING TRAFFIC SIGNAL BOX

Estimated Quantities		
Description	Unit of Measure	Quantity
Concrete Sidewalk, Curb, and Pavement Demolition and Disposal	S.F.	160
Construct Reinforced Concrete Sidewalk	S.F.	252



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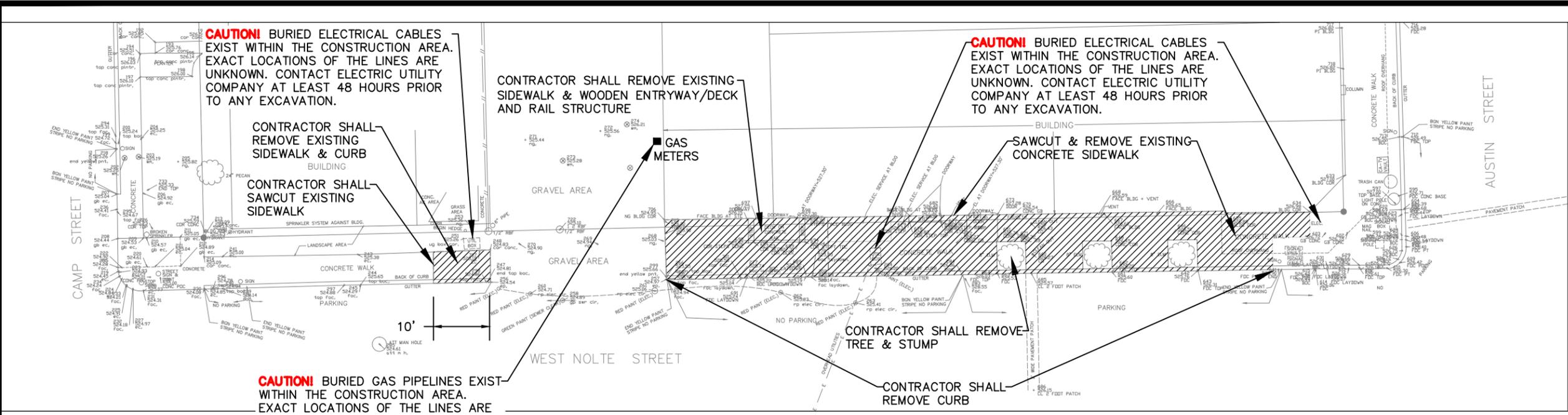


CITY OF SEGUIN SIDEWALK IMPROVEMENTS PROJECT
EAST COURT STREET AT SAN MARCOS STREET SIDEWALK PLAN

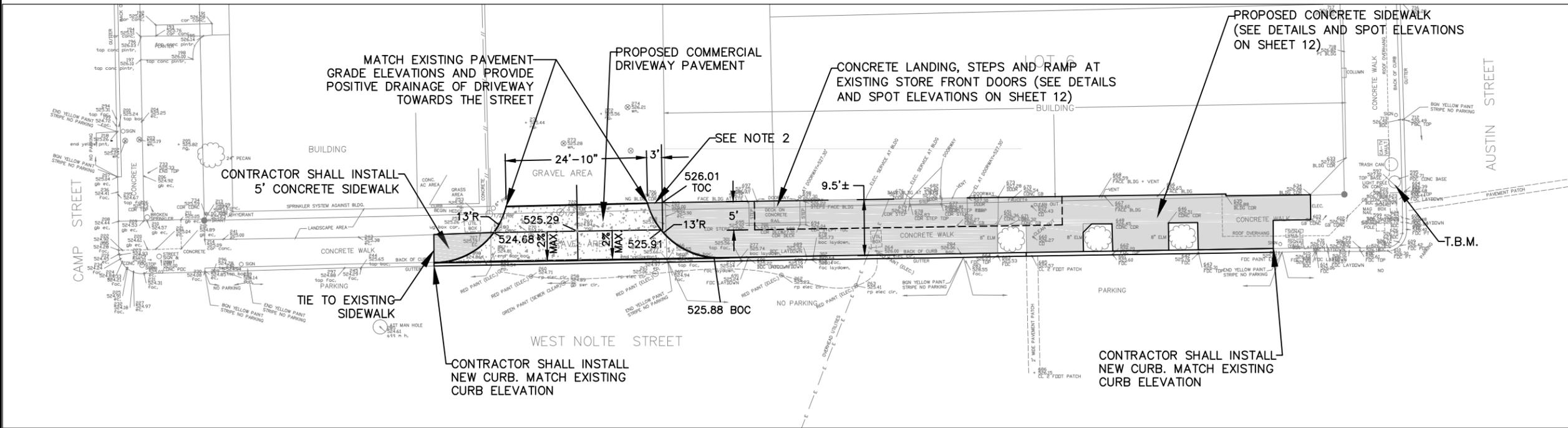
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PEER: _____ OTHER: _____

REVISIONS:	
DELTA	DESCRIPTION

Date: Oct 06, 2015, 4:59pm User: jgahnp File: S:\Active Projects\15C05002 - Austin Court and North Sidewalks.dwg | 15C05002 - W. Nolte - ST - PN - 001.dwg



EXISTING CONDITIONS AND DEMO PLAN
SCALE: 1"=20'



SIDEWALK AND DRIVEWAY PLAN
SCALE: 1"=20'

T.B.M. EL. 527.00
TOP OF CONCRETE BASE ON SOUTH SIDE OF DECORATIVE LAMP POST

- NOTES:**
- NO DEMOLITION OR CONSTRUCTION WORK AT THE WEST NOLTE STREET LOCATION CAN BEGIN BEFORE JANUARY 2ND, 2016. THIS WORK PROHIBITION IS REQUIRED TO AVOID ANY POTENTIAL CONFLICTS WITH VEHICULAR OR PEDESTRIAN TRAFFIC WITHIN THE CONSTRUCTION ZONE DURING THE HOLIDAY SHOPPING SEASON.
 - CONTRACTOR SHALL SLOPE THE TRANSITION BETWEEN SIDEWALK AND DRIVEWAY PAVEMENT AS REQUIRED FOR PROPER DRAINAGE TO THE GUTTER. CONTRACTOR SHALL PROVIDE EXTENSION OF ADJACENT DOWNSPOUT DRAIN PIPE AT BUILDING SO THAT FLOW IS DIRECTED TO STREET ACROSS THE SLOPED TRANSITION.

Estimated Quantities Table No. 1		
Description	Unit of Measure	Quantity
Concrete Sidewalk, Curb, and Pavement Demolition and Disposal	S.F.	1,105
Removal and Disposal of Existing Tree and Stump	L.S.	1
Removal and Disposal of Existing Wooden Platform and Railing	L.S.	1
Construct Reinforced Concrete Sidewalk	S.F.	1,017
Construct Reinforced Concrete Driveway	S.F.	307
Construct Reinforced Concrete Landing with Ramp and Steps	L.S.	1
Install Metal Hand Railing at Landing with Ramp and Steps	L.F.	75
Construct Reinforced Concrete Curb	L.F.	99
Replace Asphaltic Concrete Pavement at New Curb	S.F.	50

Estimated Quantities Table No. 2		
Description	Unit of Measure	Quantity
Adjust Electrical Pull Box at Proposed Sidewalk	L.S.	1
Extend Gutter Downspout Drain to Driveway	L.S.	1
Relocate Electrical Ground Rod and Adjust Conduit at W/way	L.S.	1
Relocate Hose Bib at Ramp	L.S.	1
Install Air Vent Tube and Screen at Landing	L.S.	1
Adjust Sewer Cleanout Fittings at Proposed Sidewalk and Ramp	L.S.	1

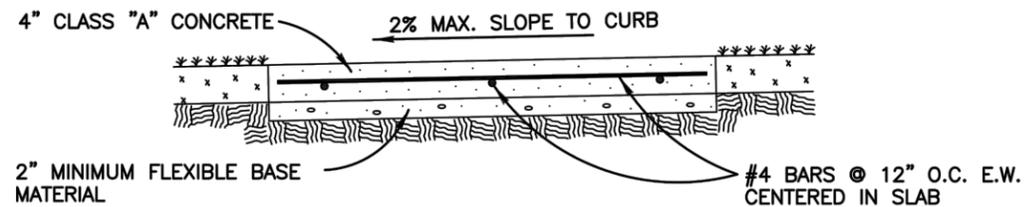
CITY OF SEGUIN SIDEWALK IMPROVEMENTS PROJECT
WEST NOLTE STREET SIDEWALK AND DRIVEWAY PLAN

JOB: 15C05002
DATE: MAY 20, 2015
DRAWN: PM.
DESIGN: DM.
PEER: OTHER:
REVISIONS:
DELTA DESCRIPTION

M&S ENGINEERING
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STATE OF TEXAS
PROFESSIONAL ENGINEER
CHRISTOPHER D. WEEKS
81588
10/06/2015

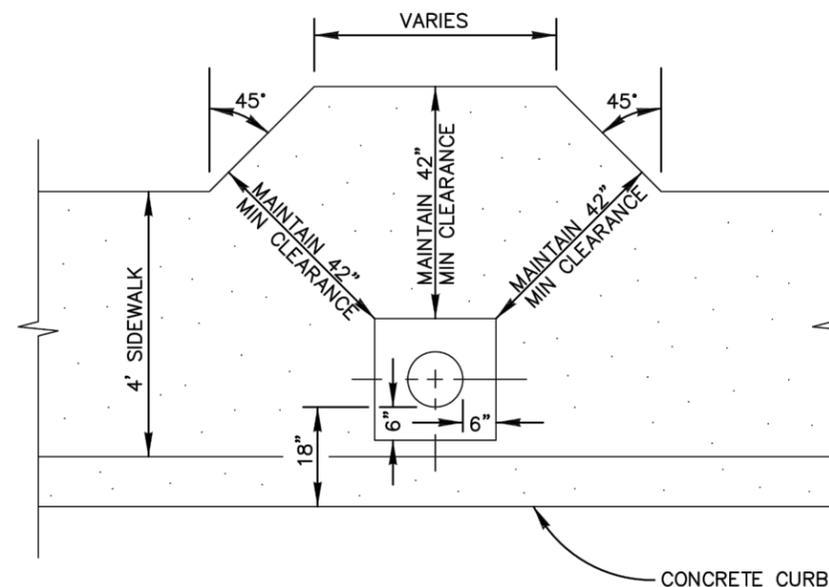


CONCRETE SIDEWALK SECTION
NOT TO SCALE

NOTES:

1. SIDEWALK SURFACE SHALL NOT BE LOWER THAN TOP OF CURB.
2. TOP SURFACE OF SIDEWALK SHALL BE PROVIDED WITH A BROOM FINISH.
3. WIDTH OF SIDEWALK MAY VARY; SEE PLAN SHEETS FOR DETAILED INFORMATION.
4. BASE MATERIAL SHALL BE COMPACTED THOROUGHLY PRIOR TO CONCRETE POUR.
5. PROVIDE 1/2-INCH RADIUS TOOLED JOINT OR 1-INCH DEEP SAWED JOINT FOR EVERY 5 FOOT OF SIDEWALK LENGTH.
6. PROVIDE 1/2-INCH THICK EXPANSION JOINT MATERIAL BETWEEN SIDEWALK AND ALL FIXED OBJECTS.
7. PROVIDE 3/4-INCH CHAMFER ON ALL EXPOSED EDGES OF SIDEWALK.

SOURCE: THE CITY OF SEGUIN, 2013.

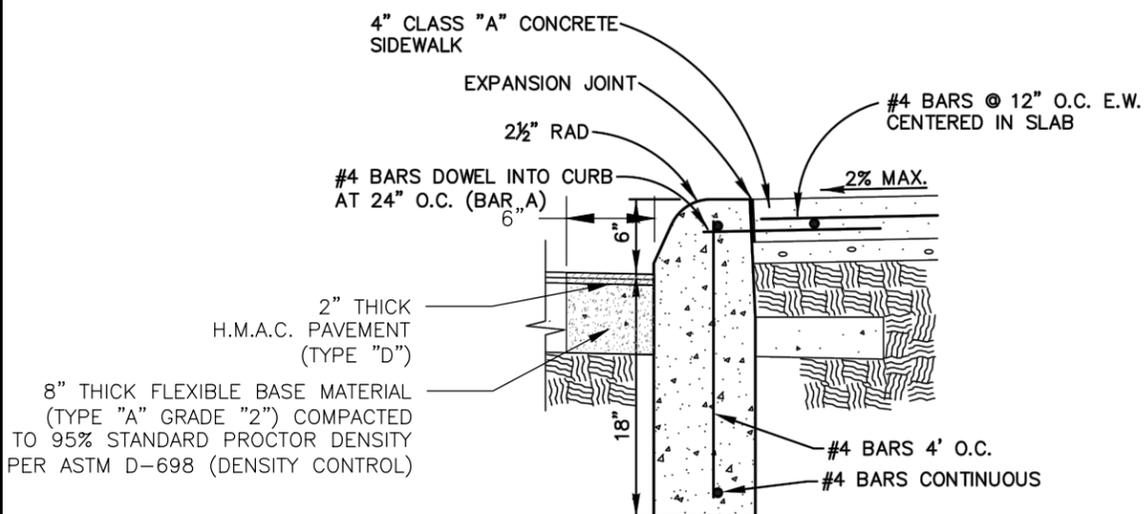
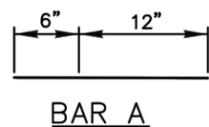


CONCRETE SIDEWALK @ UTILITY POWER POLE DETAIL
NOT TO SCALE

NOTE:

THIS DETAIL TO BE USED WHENEVER A POWER POLE ENCLOSES ON SIDEWALK. A MINIMUM UNOBSTRUCTED CLEARANCE OF 42" IS TO BE MAINTAINED AROUND THE POLE AT THE LOCATIONS.

SOURCE: THE CITY OF SEGUIN, 2013.

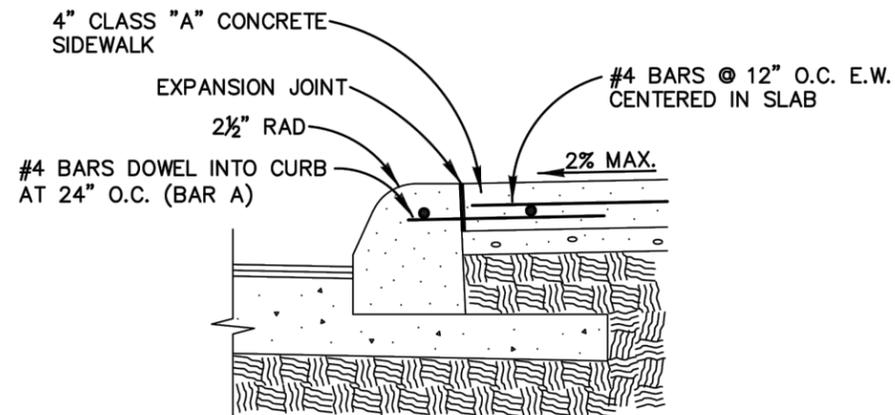
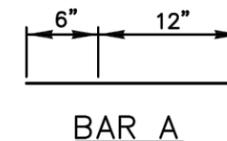


CONCRETE SIDEWALK ABUTTING PROPOSED CURB SECTION
NOT TO SCALE

NOTE:

1. SEE SPECIFIC CURB DETAILS FOR CURB CONSTRUCTION.

SOURCE: THE CITY OF SEGUIN, 2013.



CONCRETE SIDEWALK ABUTTING EXISTING CURB SECTION
NOT TO SCALE

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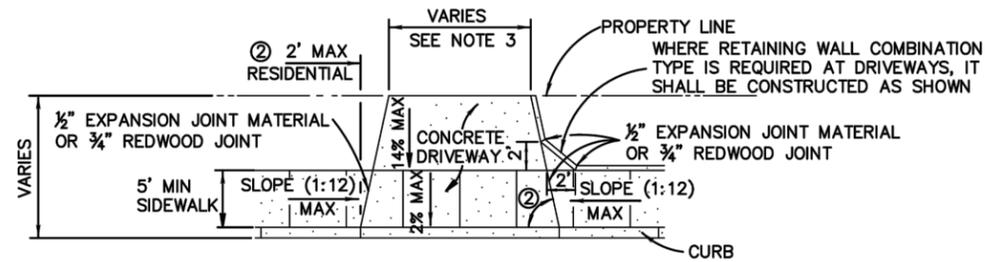
STATE OF TEXAS
CHRISTOPHER D. WEEKS
81588
LICENSED PROFESSIONAL ENGINEER
10/06/2015

CITY OF SEGUIN SIDEWALK
IMPROVEMENTS PROJECT
SIDEWALK AND PAVEMENT DETAILS (A)

JOB:	15COS002
DATE:	SEPTEMBER 11, 2015
DRAWN:	PM:
DESIGN:	DM:
PEER:	OTHER:

REVISIONS:	
DELTA	DESCRIPTION

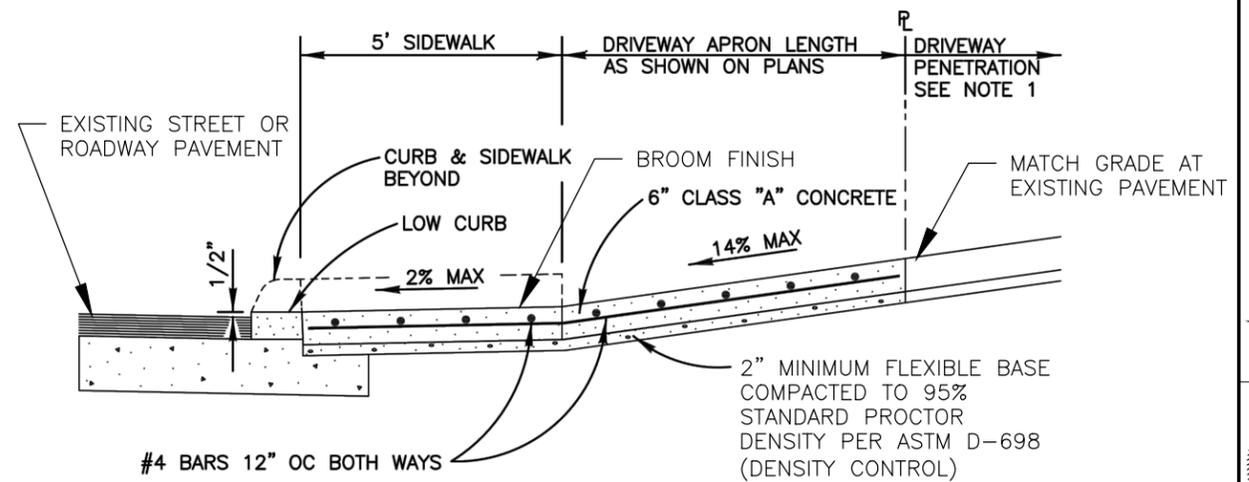
SHEET:



② 45' FOR COMMERCIAL DRIVEWAY

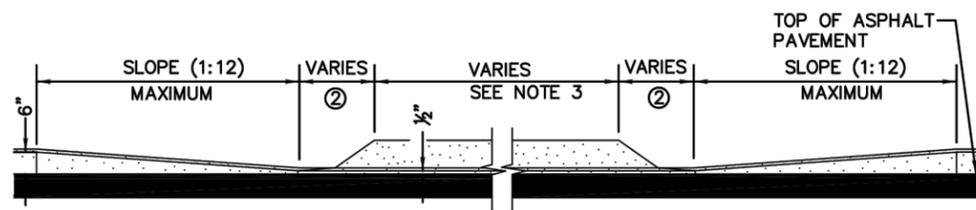
TYPICAL DRIVEWAY PLAN VIEW
WITH SIDEWALK ABUTTING CURB
NOT TO SCALE

SOURCE: THE CITY OF SEGUIN, 2013.



TYPICAL COMMERCIAL DRIVEWAY SECTION
WITH SIDEWALK ABUTTING CURB
NOT TO SCALE

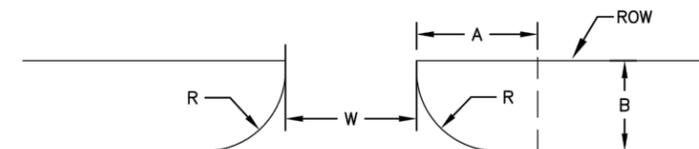
SOURCE: THE CITY OF SEGUIN, 2013.



② RESIDENTIAL: 2' MAXIMUM;
COMMERCIAL: SEE PLAN VIEW

CURB PROFILE AT DRIVEWAY
WITH SIDEWALK ABUTTING CURB
NOT TO SCALE

SOURCE: THE CITY OF SEGUIN, 2013.



A	B	ENTRANCE W	EXIT W	2-WAY	R
9'9"	5'0"	14'9"	11'6"	30'	10'
10'6"	5'6"	14'0"	10'9"	28'	11'
11'0"	6'6"	13'6"	10'0"	28'	11'
11'6"	7'6"	13'0"	9'6"	26'	12'
12'0"	8'6"	12'6"	9'3"	26'	12'
12'6"	9'6"	12'0"	9'0"	24'	13'

ENTRANCE AND EXIT CURB RETURN REQUIREMENTS

CONCRETE DRIVEWAY NOTES:

1. DRIVEWAY PENETRATION REFERS TO A PORTION OF THE DRIVEWAY THAT MAY BE NECESSARY TO RECONSTRUCT WITHIN PRIVATE PROPERTY TO COMPLY WITH A MAXIMUM DRIVEWAY SLOPE. THIS PORTION OF THE DRIVEWAY SHALL BE PAID FOR UNDER THE FOLLOWING ITEMS AS MAY APPLY:
2. 7" MINIMUM HEIGHT WILL NOT NECESSARILY OCCUR AT THE PROPERTY LINE. IT MAY OCCUR WITHIN THE RIGHT OF WAY OR WITHIN THE DRIVEWAY PENETRATION ON PRIVATE PROPERTY.
3. THE PROPOSED DRIVEWAY SHOULD MATCH THE EXISTING WIDTH AT THE PROPERTY LINE.
4. A MINIMUM OF TWO ROUND AND SMOOTH DOWEL BARS 3/8" IN DIAMETER AND 18" IN LENGTH SHALL BE SPACED 18" APART AT EACH EXPANSION JOINT.
5. SIDEWALK RAMP LENGTHS SHALL BE OF SUFFICIENT LENGTH TO MAINTAIN 8.33% (1:12) MAXIMUM SLOPE. WHERE SIDEWALKS CROSS DRIVEWAYS, SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.
6. SIDEWALK RAMP SURFACE SHALL BE IN ACCORDANCE TO ADA SURFACE TREATMENTS.

ENTRANCE AND EXIT CURB RETURN
NOT TO SCALE

SOURCE: THE CITY OF SEGUIN, 2013.

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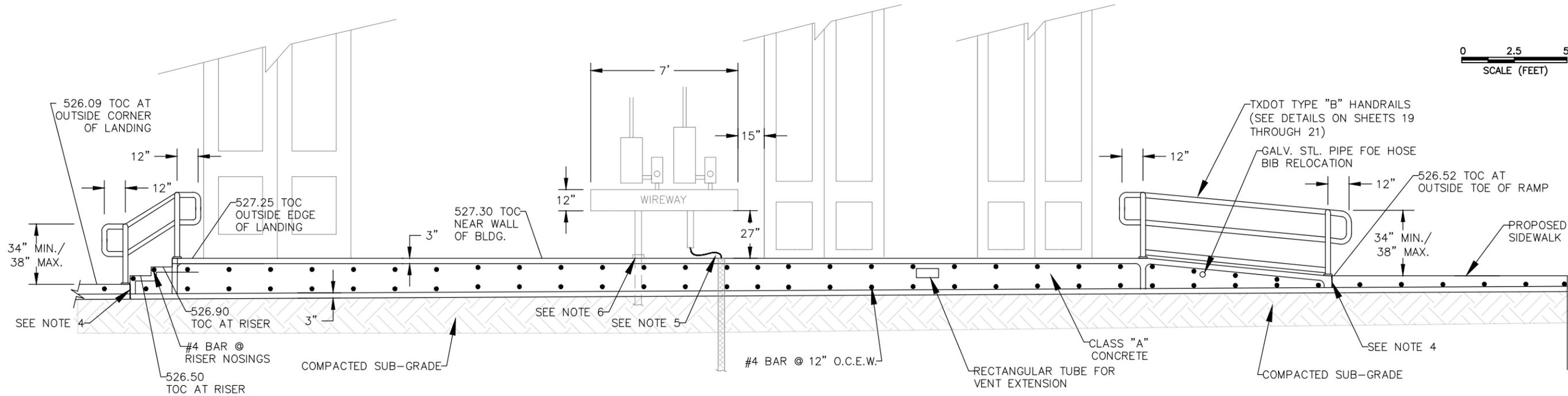


CITY OF SEGUIN SIDEWALK
IMPROVEMENTS PROJECT
SIDEWALK AND PAVEMENT DETAILS (B)

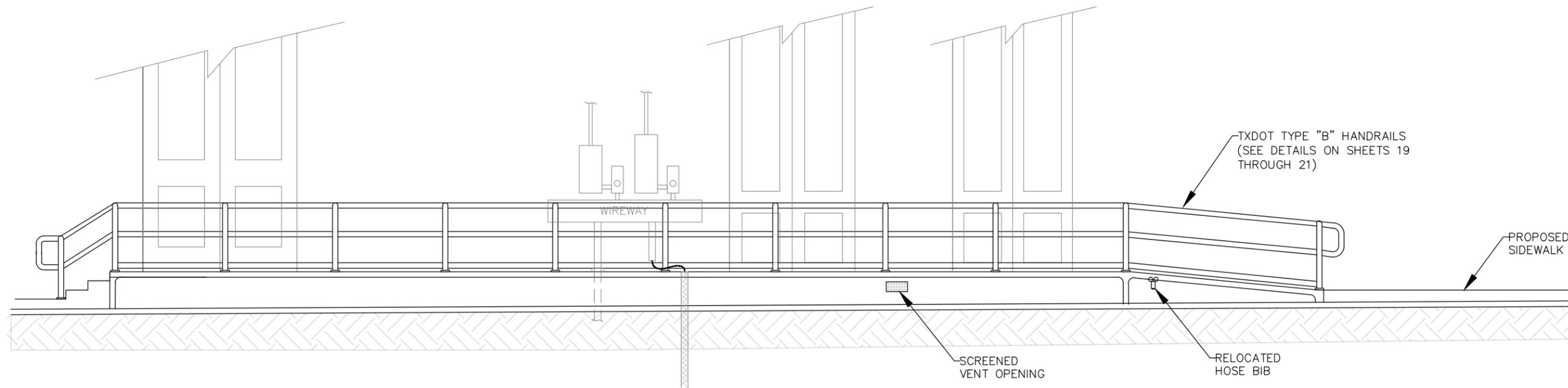
JOB: 15COS002
DATE: SEPTEMBER 11, 2015
DRAWN: PM:
DESIGN: DM:
PEER: OTHER:

REVISIONS:	
DELTA	DESCRIPTION

SHEET:



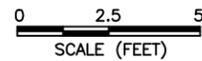
PROPOSED CROSS-SECTION VIEW OF LANDING WITH RAMP AND STEPS
1" = 5'



PROPOSED ELEVATION VIEW OF LANDING WITH RAMP AND STEPS
1" = 5'

NOTES:

1. STAIR TREADS SHALL BE 11 INCHES DEEP (MINIMUM).
2. RADIUS OF CURVATURE AT THE LEADING EDGE OF THE TREAD SHALL BE 1/2 INCH (MAXIMUM).
3. TREADS AND LANDING SHALL BE CROSS-SLOPED NO GREATER THAN 1% TO PREVENT THE ACCUMULATION OF WATER ON THE TOP SURFACE.
4. PROVIDE A CONSTRUCTION JOINT AT PERIMETER OF STEPS, LANDING AND RAMP FOR CONNECTION TO PROPOSED SIDEWALK IN A MANNER SIMILAR TO THAT SHOWN FOR SIDEWALK ABUTTING PROPOSED CURB DETAIL ON SHEET 10.
5. PROVIDE CONDUIT AND #6 AWG COPPER GROUNDING ELECTRODE CONDUCTOR AT EXISTING WIREWAY FOR ATTACHMENT TO 8'X5/8" COPPER-CLAD GROUND ROD (COORDINATE WITH LOCAL ELECTRIC UTILITY PROVIDER FOR INSTALLATION DETAILS).
6. CONTRACTOR SHALL ADJUST LENGTH OF EXISTING 3" GALV. STL. CONDUIT SO THAT CONNECTOR THREADS ARE ACCESSIBLE ABOVE T.O.C. SURFACE AT LANDING (COORDINATE WITH LOCAL ELECTRIC UTILITY PROVIDER FOR INSTALLATION DETAILS).
7. CONTRACTOR SHALL SUBMIT HANDRAIL SHOP DRAWINGS TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND INSTALLATION AS SHOWN IN THE CONSTRUCTION DRAWINGS.
8. TOP OF ALL CONCRETE SURFACES SHALL BE PROVIDED WITH A BROOM FINISH.



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 LICENSED PROFESSIONAL ENGINEER
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 10/06/2015

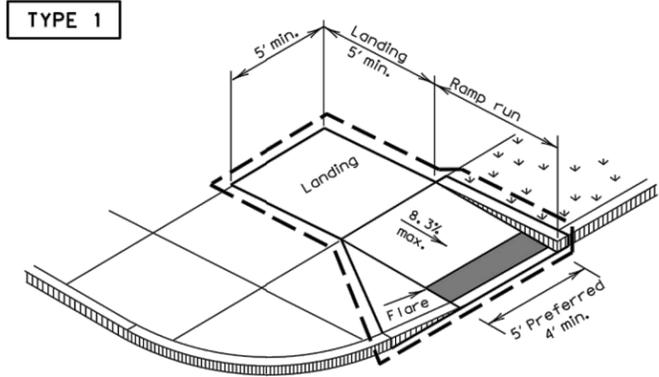
CITY OF SEGUIN SIDEWALK IMPROVEMENTS PROJECT
 CONCRETE RAMP WITH RAILS DETAILS (B)

JOB:	15COS002
DATE:	SEPTEMBER 11, 2015
DRAWN:	PM:
DESIGN:	DM:
PEER:	OTHER:

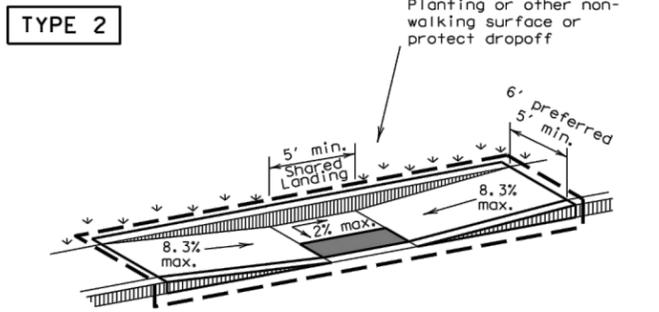
REVISIONS:	
DELTA	DESCRIPTION

SHEET:

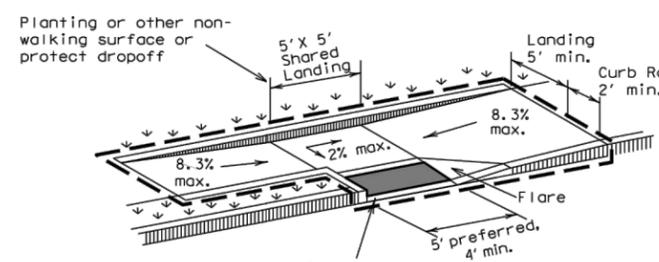
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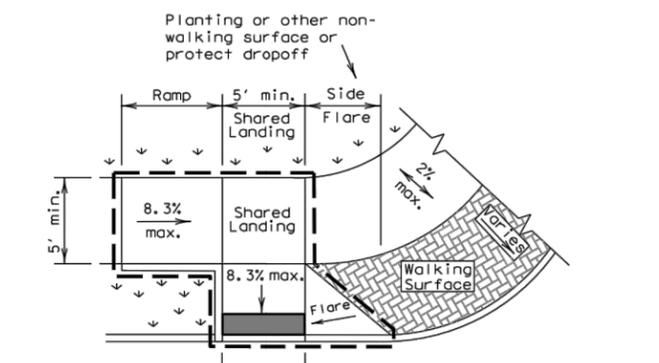
PERPENDICULAR CURB RAMP



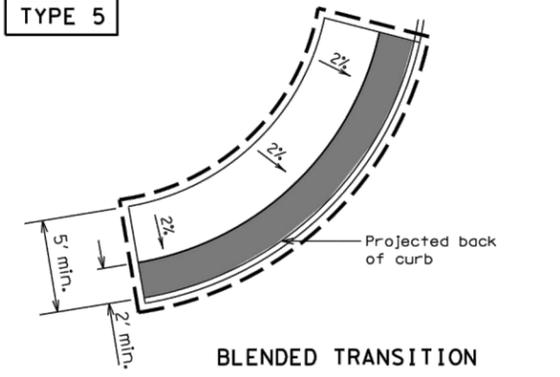
PARALLEL CURB RAMP
(Use only where water will not pond in the landing.)



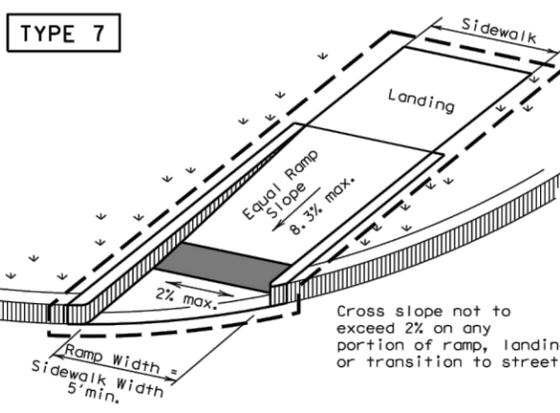
TYPE 3



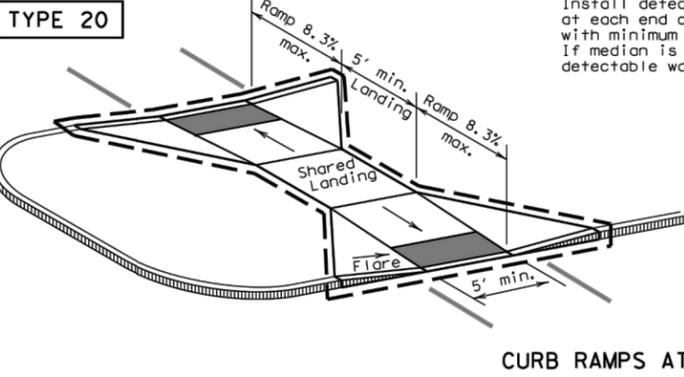
TYPE 6
COMBINATION CURB RAMPS



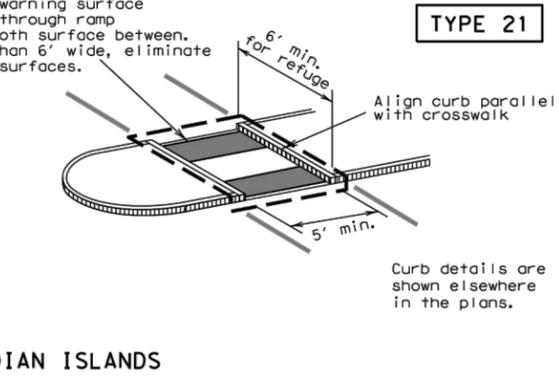
TYPE 5
BLENDED TRANSITION



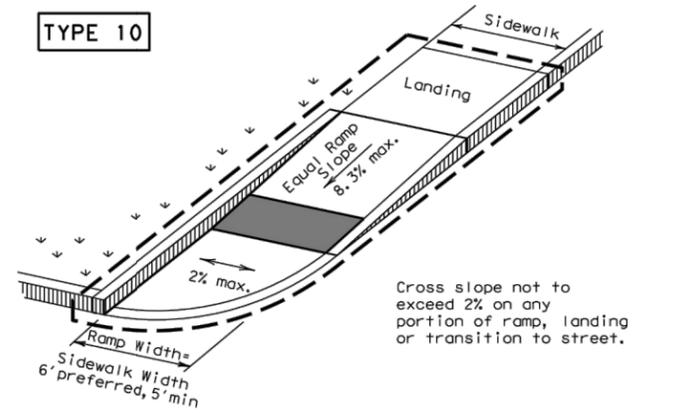
TYPE 7
DIRECTIONAL RAMPS WITHIN RADIUS
(Sidewalk set back from curb)



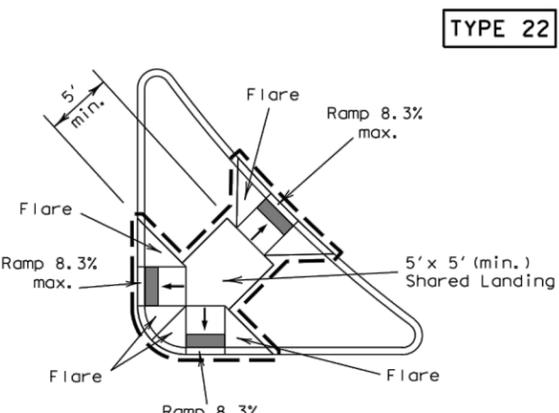
TYPE 20
CURB RAMPS AT MEDIAN ISLANDS



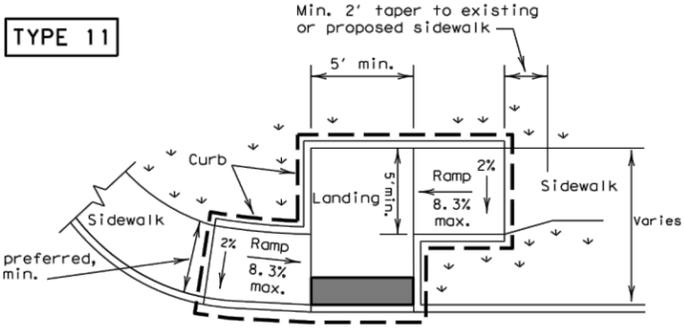
TYPE 21



TYPE 10
DIRECTIONAL RAMPS WITHIN RADIUS
(Sidewalk adjacent to curb)



TYPE 22
COMBINATION ISLAND RAMPS



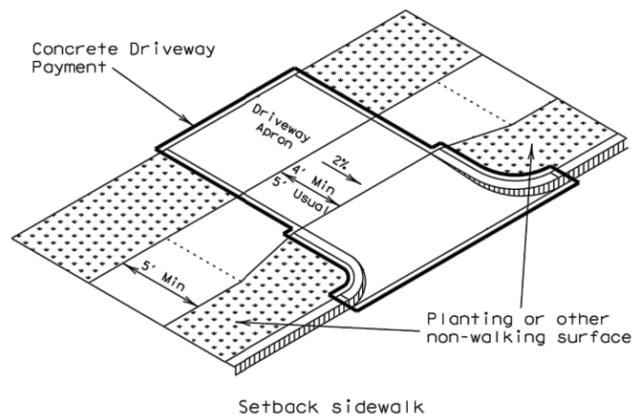
TYPE 11
OFFSET PARALLEL CURB RAMP

NOTES / LEGEND:
See General Notes on sheet 2 of 4 for more information.
 ↓ ↓ Denotes planting or non-walking surface not part of pedestrian circulation path.
 --- Ramp Limits of Payment
 ■ Detectable Warning Surface

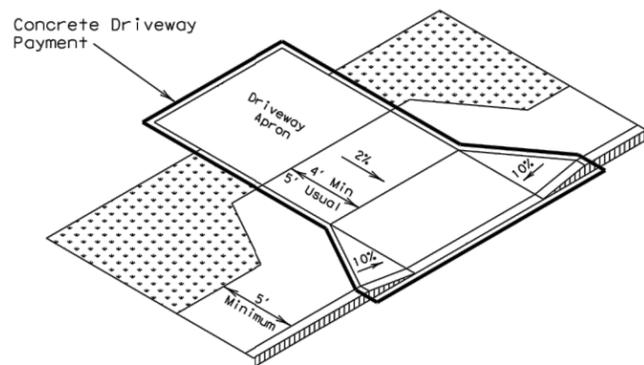
JOB: 15COS002
 DATE: SEPTEMBER 11, 2015
 DRAWN: PM:
 DESIGN: DM:
 PEER: OTHER:

REVISIONS:	
DELTA	DESCRIPTION

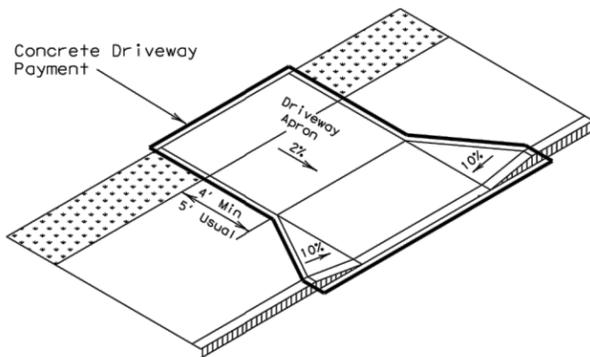
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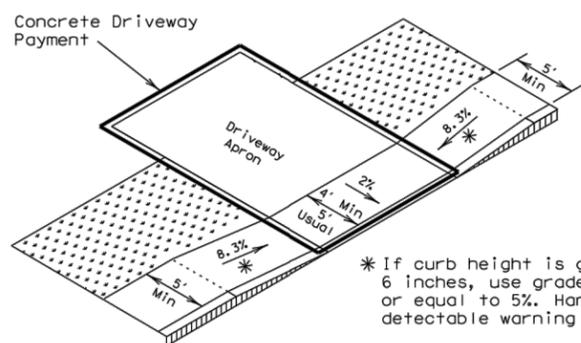
Setback sidewalk



Apron offset sidewalk



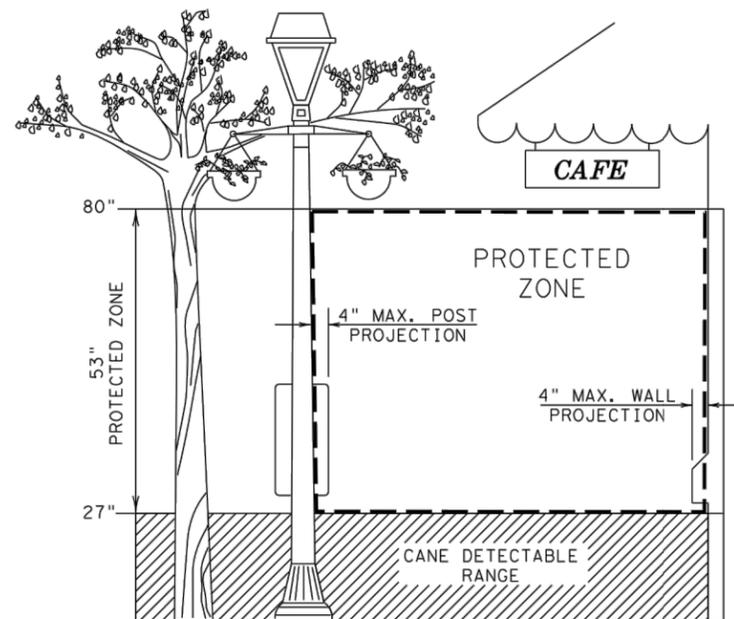
Wide sidewalk



* If curb height is greater than 6 inches, use grade less than or equal to 5%. Handrail and detectable warning not required.

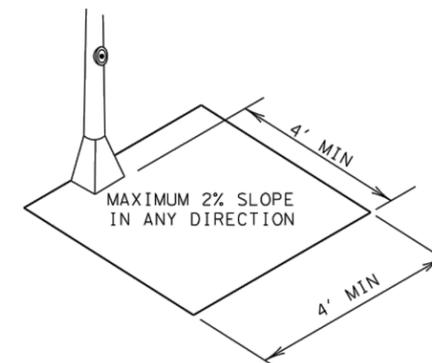
Ramp sidewalk

SIDEWALK TREATMENT AT DRIVEWAYS

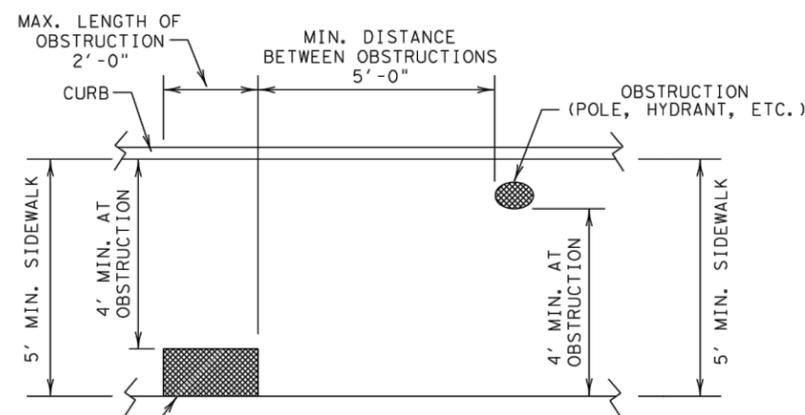


PROTECTED ZONE

In pedestrian circulation area, maximum 4" projection for post or wall mounted objects between 27" and 80" above the surface.

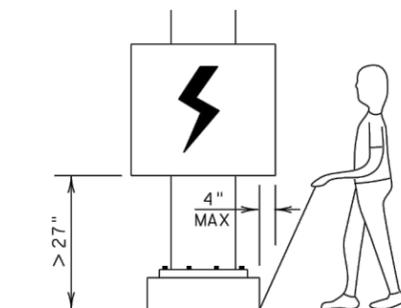


CLEAR GROUND SPACE ADJACENT TO PEDESTRIAN PUSH BUTTON

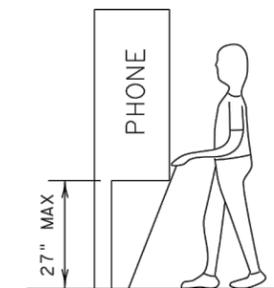


**PLAN VIEW
PLACEMENT OF STREET FIXTURES**

(ITEMS NOT INTENDED FOR PUBLIC USE. MINIMUM 4' x 4' CLEAR GROUND SPACE REQUIRED AT PUBLIC USE FIXTURES.)



When an obstruction of a height greater than 27" from the surface would create a protrusion of more than 4" into the pedestrian circulation area, construct additional curb or foundation at the bottom to provide a maximum 4" overhang.



Protruding objects of a height ≤ 27" are detectable by cane and do not require additional treatment.

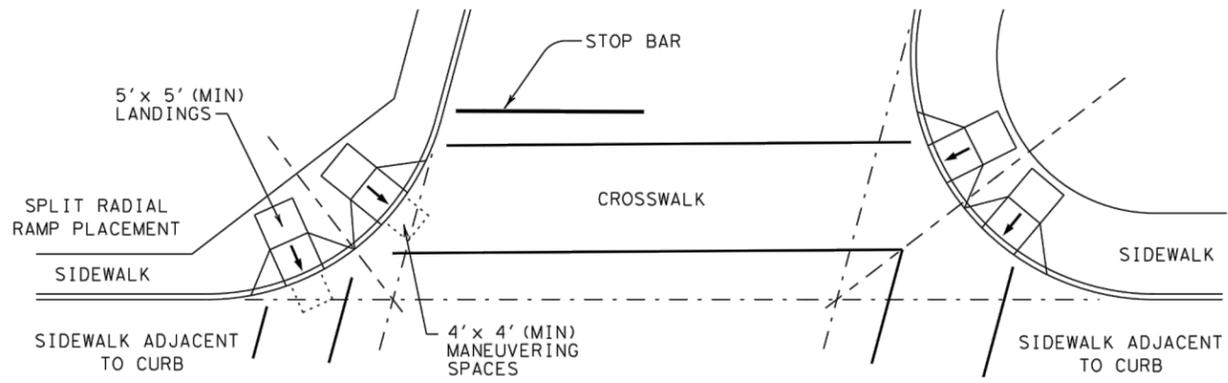
DETECTION BARRIER FOR VERTICAL CLEARANCE < 80"

JOB:	15COS002
DATE:	SEPTEMBER 11, 2015
DRAWN:	PM:
DESIGN:	DM:
PEER:	OTHER:

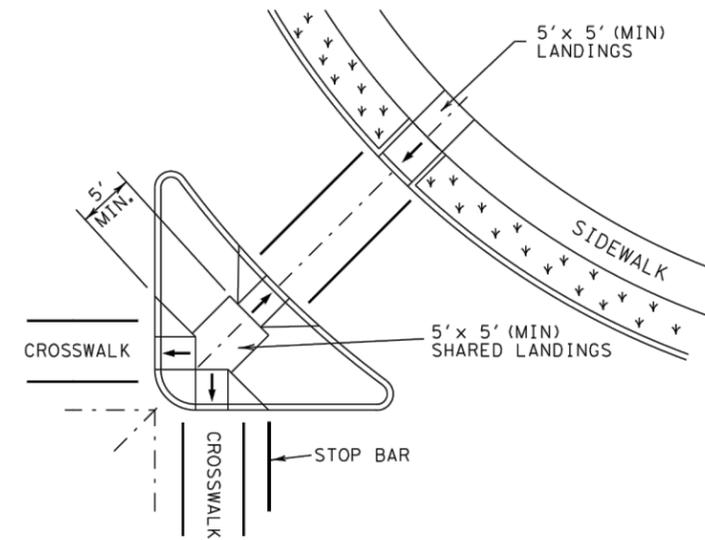
REVISIONS:	
DELTA	DESCRIPTION

SHEET:

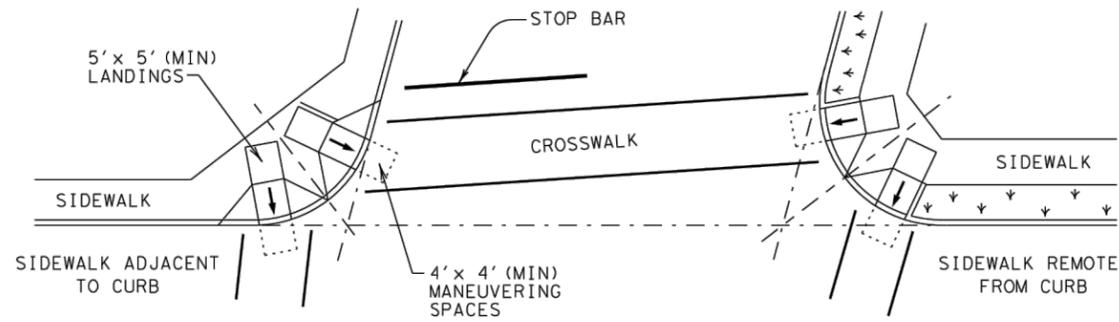
Date: Oct 06, 2015, 5:01pm, User: fd.gaharp, File: S:\Active Projects\15COS002 - Adult Court and North Sidewalk.dwg, PLOT: DETAILS-065.dwg



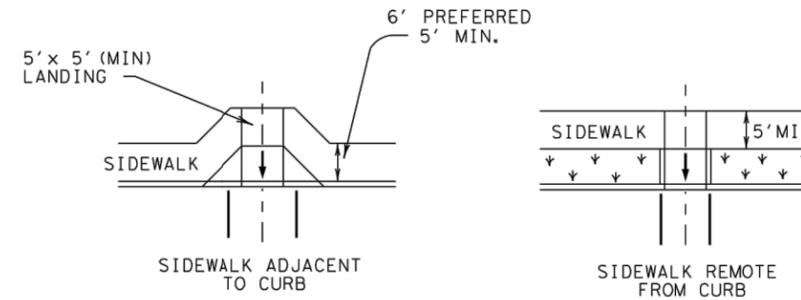
SKewed INTERSECTION WITH "LARGE" RADIUS



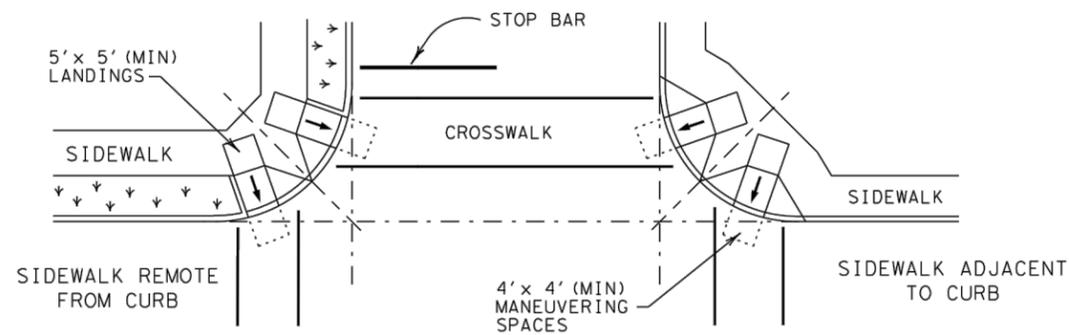
AT INTERSECTION W/FREE RIGHT TURN & ISLAND



SKewed INTERSECTION WITH "SMALL" RADIUS



MID-BLOCK PLACEMENT PERPENDICULAR RAMPS



NORMAL INTERSECTION WITH "SMALL" RADIUS

TYPICAL CROSSING LAYOUTS



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 BRANCH OFFICE
 1534-2010
 SPRING BRANCH, TX 76070
 PHONE: (830) 629-2988

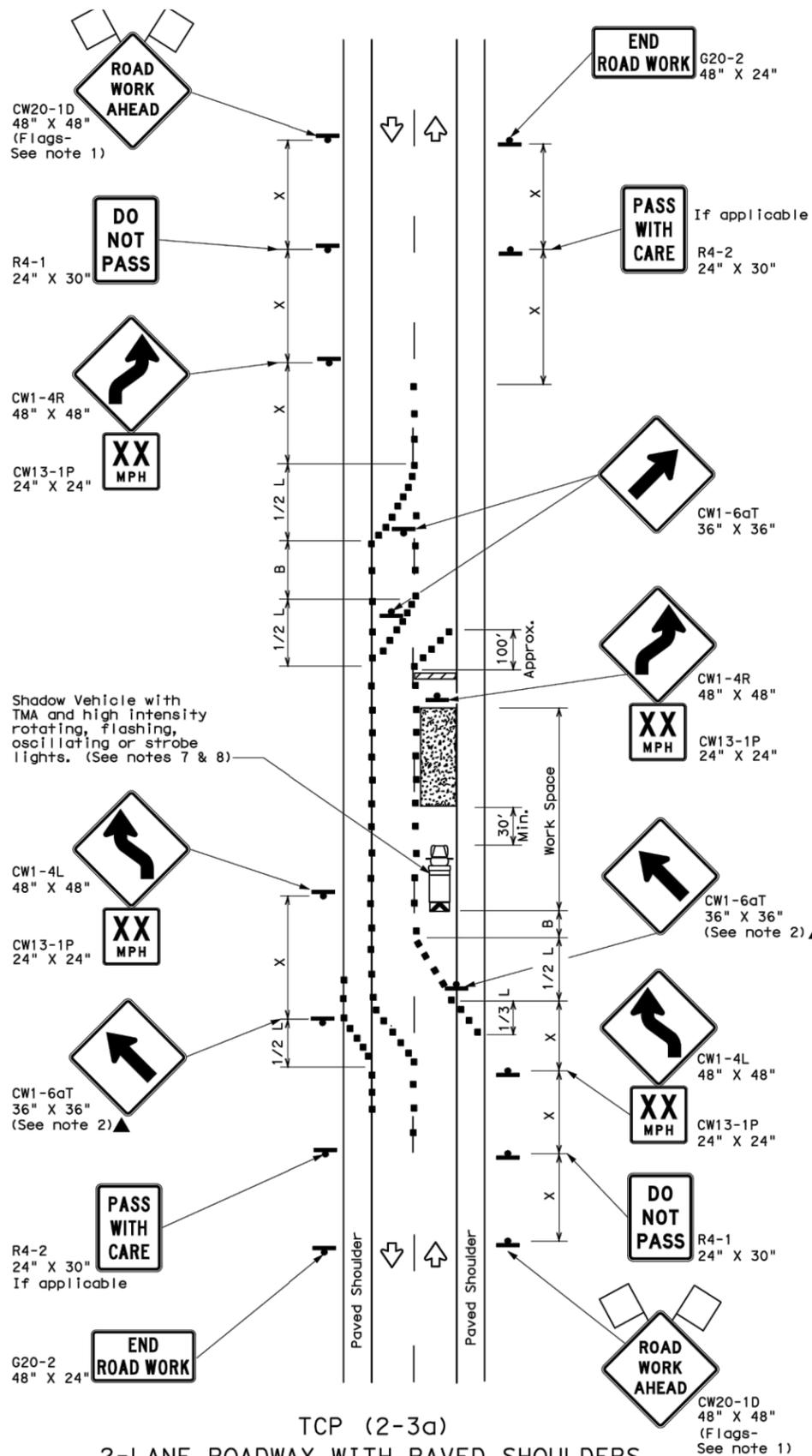
CITY OF SEGUIN SIDEWALK IMPROVEMENTS PROJECT
 PEDESTRIAN FACILITIES CURB RAMPS (4 OF 4)

JOB:	15COS002
DATE:	SEPTEMBER 11, 2015
DRAWN:	PM:
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PEER:	OTHER:

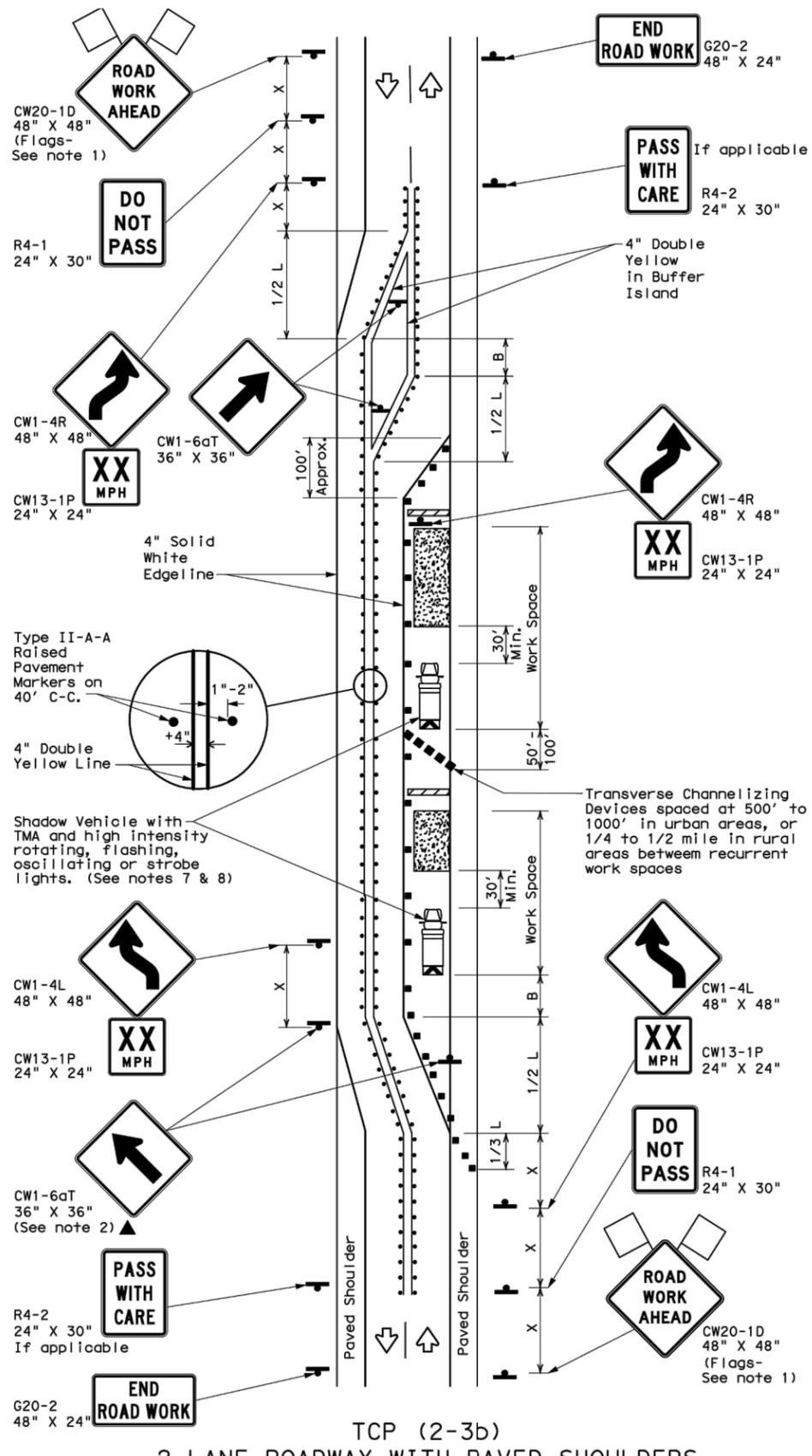
REVISIONS:	
DELTA	DESCRIPTION

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TCP (2-3a)
2-LANE ROADWAY WITH PAVED SHOULDERS
ONE LANE CLOSED
ADEQUATE FIELD OF VIEW



TCP (2-3b)
2-LANE ROADWAY WITH PAVED SHOULDERS
ONE LANE CLOSED
INADEQUATE FIELD OF VIEW

LEGEND			
	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Raised Pavement Markers Ty II-AA
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths **			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent		
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L = WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

* Conventional Roads Only
 ** Taper lengths have been rounded off.
 L=Length of Taper (FT) W=Width of Offset (FT) S=Posted Speed (MPH)

TYPICAL USAGE				
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
			✓	✓
				TCP (2-3b) ONLY

GENERAL NOTES

- Flags attached to signs where shown, are REQUIRED.
- All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
- When work space will be in place less than three days existing pavement markings may remain in place. Channelizing devices shall be used to separate traffic.
- Flagger control should NOT be used unless roadway conditions or heavy traffic volume require additional emphasis to safely control traffic. Flagger should be positioned at end of traffic queue.
- The R4-1 "DO NOT PASS," R4-2 "PASS WITH CARE" and construction regulatory speed zone signs may be installed within CW20-1D "ROAD WORK AHEAD" signs. Proper spacing of signs shall be maintained.
- Conflicting pavement marking shall be removed for long term projects.
- A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted.
- Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect a wider work space.

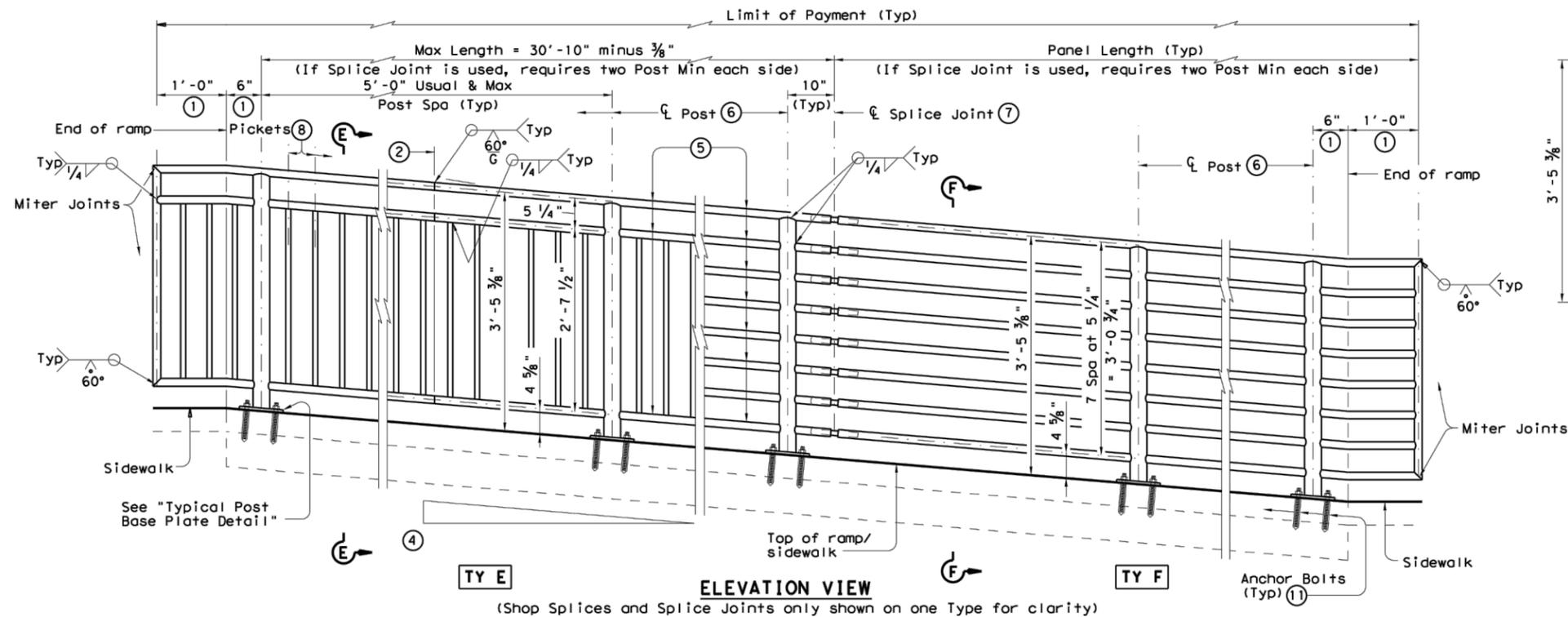
TCP (2-3a)

- Conflicting pavement markings shall be removed for long-term projects. For shorter durations where traffic is directed over a yellow centerline, channelizing devices which separate two-way traffic should be spaced on tapers at 20' or 15' if posted speeds are 35 mph or slower, and for tangent sections, at 1/2(S) where S is the speed in mph. This tighter device spacing is intended for the area of the conflicting markings, not the entire work zone.

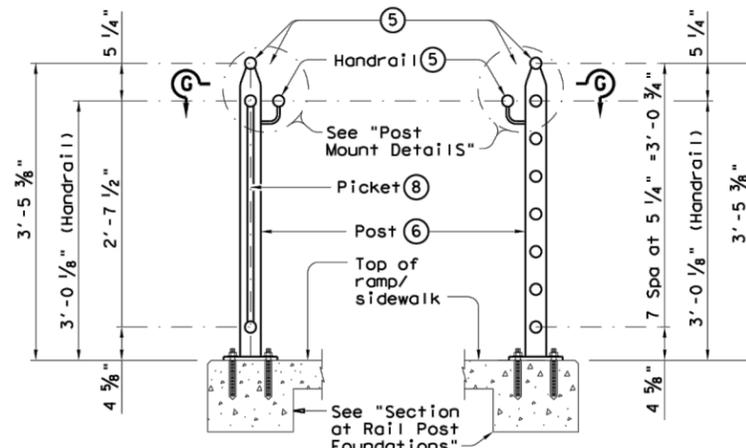
For construction or maintenance contract work, specific project requirements for shadow vehicles can be found in the project GENERAL NOTES for Item 502, Barricades, Signs and Traffic Handling.

JOB: 15COS002	DATE: SEPTEMBER 11, 2015
DRAWN: _____	PM: _____
DESIGN: _____	DM: _____
PEER: _____	OTHER: _____

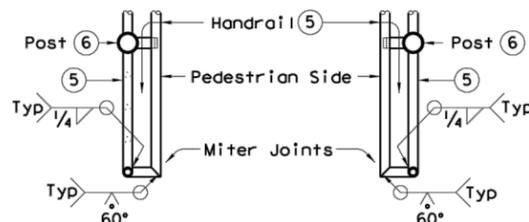
REVISIONS:	
DELTA	DESCRIPTION



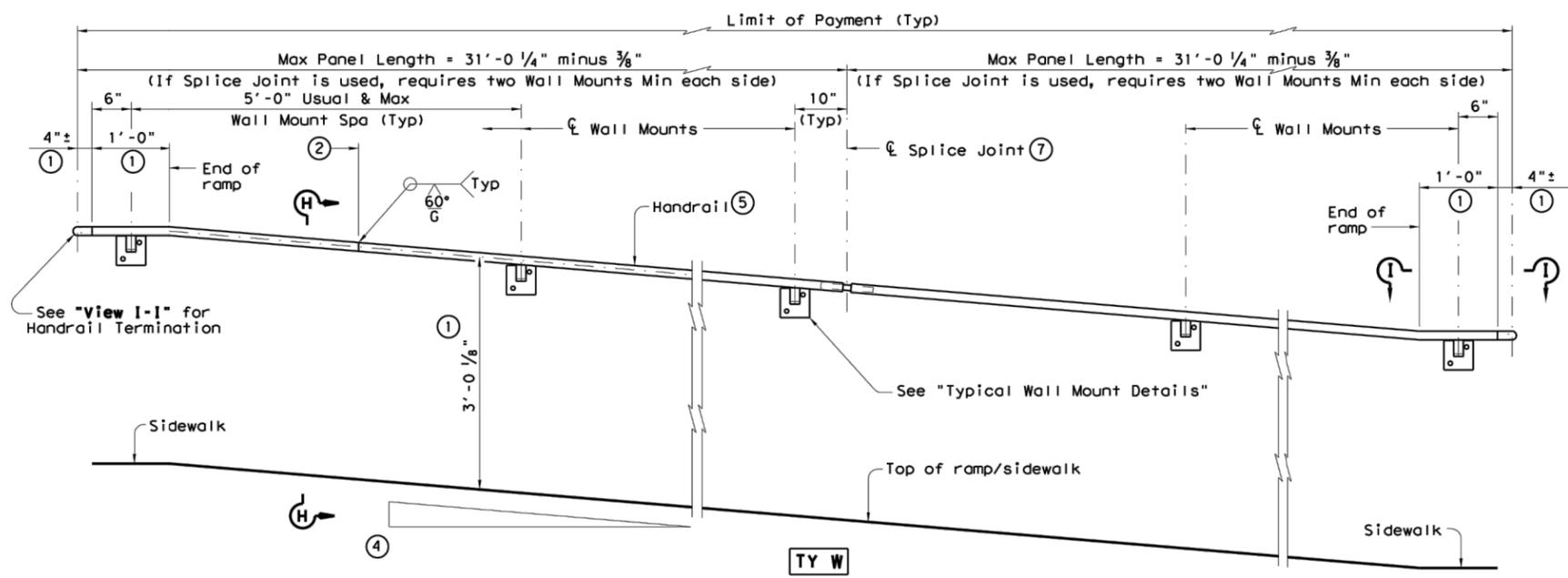
ELEVATION VIEW
(Shop Splices and Splice Joints only shown on one Type for clarity)



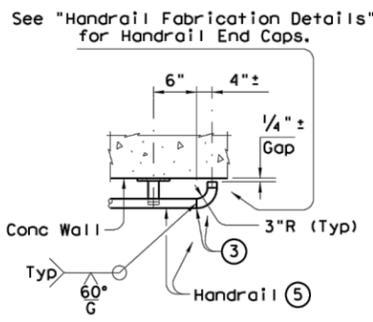
SECTION E-E (Showing Handrail TY E)
SECTION F-F (Showing Handrail TY F)



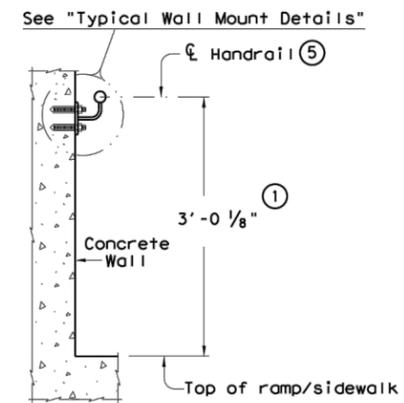
SECTION G-G
(Showing Handrail Termination)



ELEVATION VIEW



VIEW I-I
(Showing Handrail Termination)



SECTION H-H
(Showing Handrail TY W)

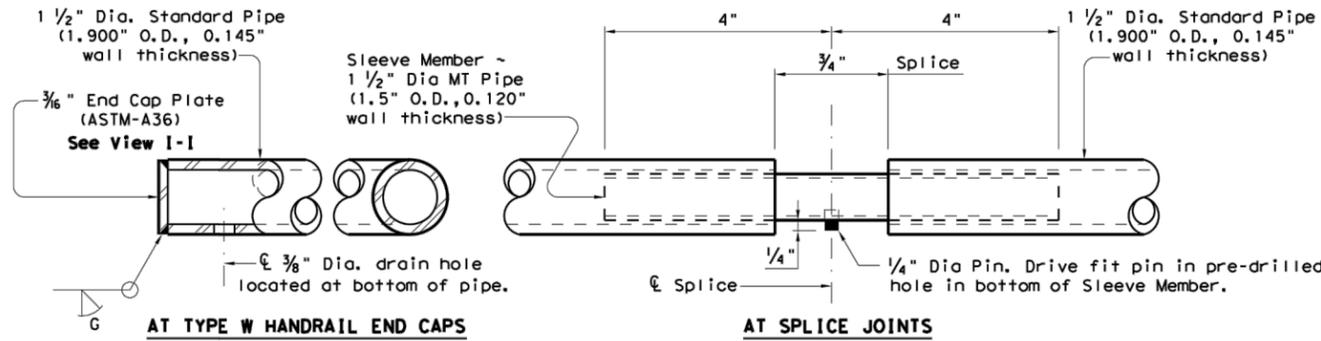
- ① Parallel to ground.
- ② One shop splice per panel is permitted with minimum 85 percent penetration. The weld may be square groove or single vee groove. Grind smooth.
- ③ Shop splice is permitted with minimum 85 percent penetration. The weld may be square groove or single vee groove. Grind smooth.
- ④ See Ramp Details located elsewhere in plans for ramp slope and dimensions. Maximum ramp slope will not exceed 8.3 percent. Level landing required for each 30" rise if grade exceeds 5 percent.
- ⑤ 1 1/2" Dia. Standard Pipe (1.900" O.D., 0.145" wall thickness). Parallel to ramp / sidewalk. Provide holes as needed in 1 1/2" Dia. pipe for galvanizing drainage and venting.
- ⑥ 2 1/2" Dia. Standard Pipe (2.875" O.D., 0.203" wall thickness). See "Post Mount Detail" for crimping and trimming post to fit Dia. of top rail. Provide holes as needed in post for galvanizing drainage and venting. Plumb all posts.
- ⑦ See "Handrail Fabrication Details" for Splice Joints.
- ⑧ 5/8" Dia. Round Bar equal spacing at 4 1/2" Max. Plumb all pickets.
- ⑪ See "General Notes" for anchor bolt information.

JOB: 15COS002
DATE: SEPTEMBER 11, 2015

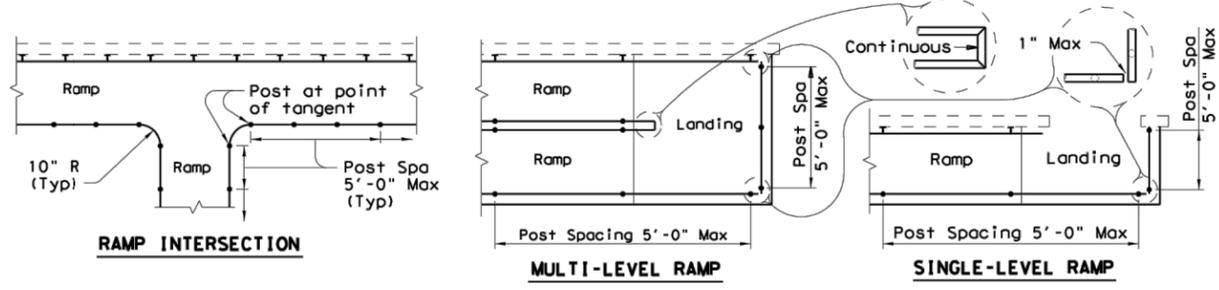
DRAWN:	PM:
DESIGN:	DM:
PEER:	OTHER:

REVISIONS:	
DELTA	DESCRIPTION

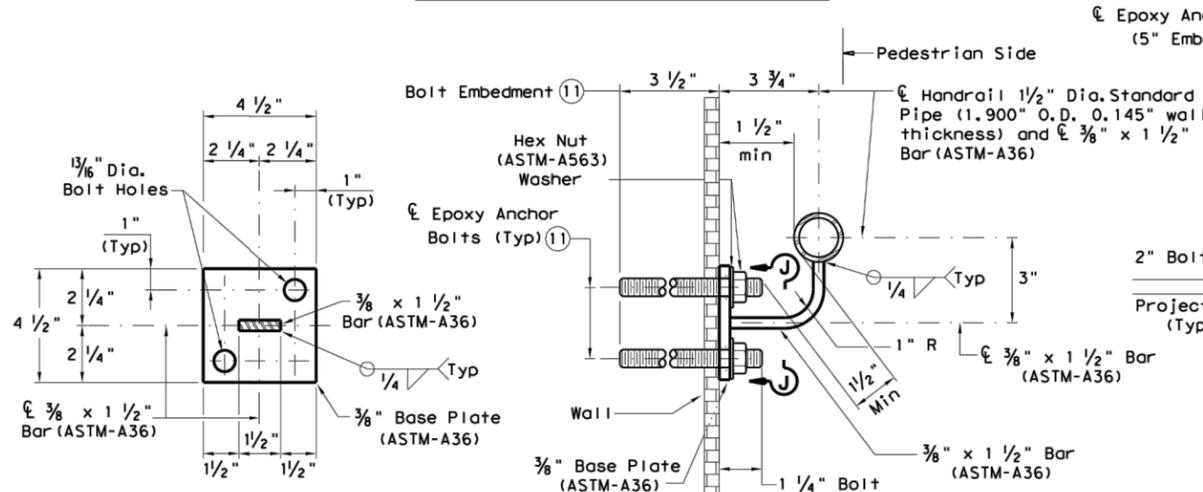
Date: Oct 06, 2015, 5:01pm, User: tp.gaharp, File: S:\Active Projects\15COS002 - Austin Court and North Sidewalks.dwg, 15COS002-CONSTR-DDETAILS-010.dwg



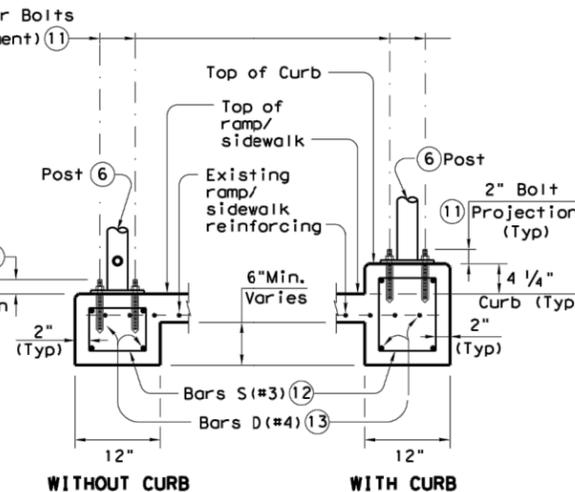
HANDRAIL FABRICATION DETAILS



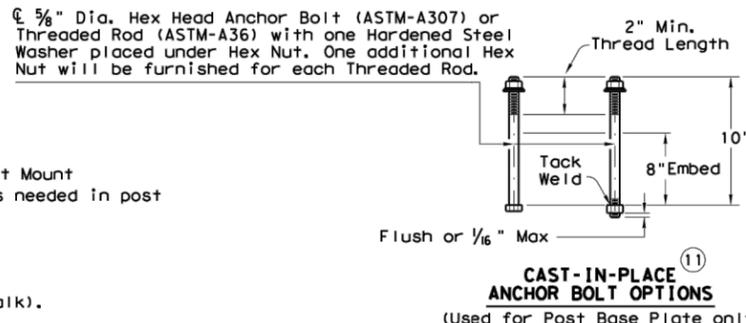
PLAN SHOWING RAIL AT RAMP CONDITIONS



TYPICAL WALL MOUNT DETAILS

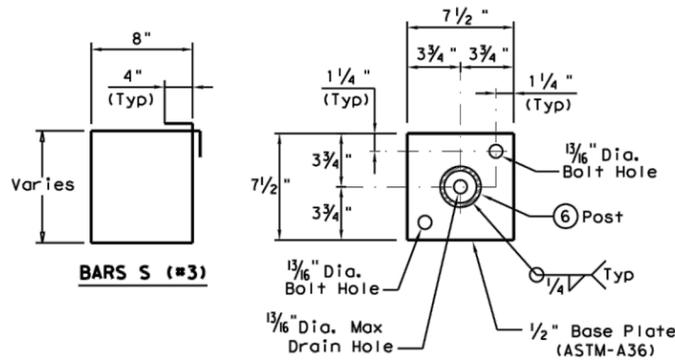


SECTION AT RAIL POST FOUNDATIONS

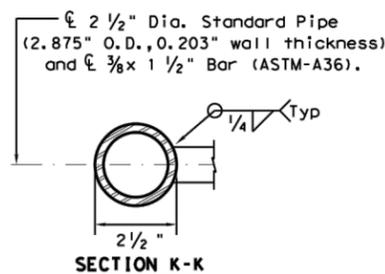


CAST-IN-PLACE ANCHOR BOLT OPTIONS
(Used for Post Base Plate only)

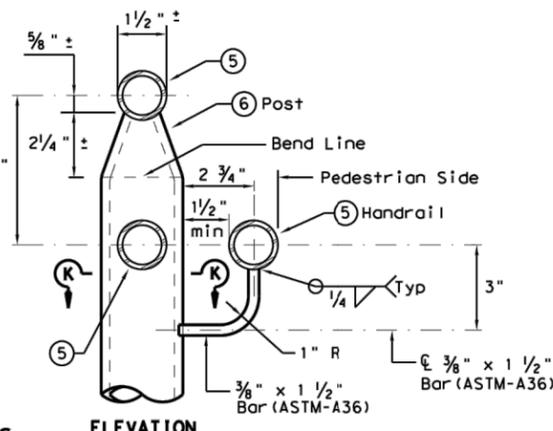
- ⑤ 1 1/2" Dia. Standard Pipe (1.900" O.D., 0.145" wall thickness). Parallel to ramp/sidewalk. Provide holes as needed in 1 1/2" Dia. pipe for galvanizing drainage and venting.
- ⑥ 2 1/2" Dia. Standard Pipe (2.875" O.D., 0.203" wall thickness). Plumb all posts. See "Post Mount Detail" for crimping and trimming post to fit the diameter of top rail. Provide holes as needed in post for galvanizing drainage and venting.
- ① See "General Notes" for anchor bolt information.
- ⑫ Bars S(#3) spaced at 12" Max (Spaced 3" from outside edge of overall length of Ramp/Sidewalk).
- ⑬ Provide 1 1/2" end cover to Bars D(#4) from outside edge of overall length of Ramp/Sidewalk.



TYPICAL POST BASE PLATE DETAIL



POST MOUNT DETAILS



ELEVATION

GENERAL NOTES

Designed according to ADAAG, Texas Accessibility Standards, Uniform Building Code, and AASHTO LRFD Specifications.

Handrail anchorage details shown on this standard may require modification for select structure types. See appropriate details elsewhere in plans for these modifications.

Pipe will conform to ASTM-A53 Grade B or A500 Grade B. Steel plates and steel bars will conform to ASTM-A36. Mechanical tubing (MT) will conform to ASTM A513 Grade 1015 or higher. Galvanize all steel components except reinforcing steel unless noted otherwise.

Concrete for foundations will be in accordance with Item 531 "Sidewalks". All reinforcing steel must be Grade 60. Bar laps, where required, will be as follows: Uncoated ~ #4 = 1'-5" Epoxy coated ~ #4 = 2'-1"

When the plans require painted steel, follow the requirements for painting galvanized steel in Item 446, "Cleaning and Painting Steel". Sleeve Members will receive galvanization and only get field painted after installation unless directed otherwise by Engineer.

Epoxy Anchor bolts for wall mount and post base plate will be 5/8" Dia. ASTM A36 threaded rods with one hex nut and one hardened steel washer at each bolt. 5/8" Dia. threaded rod embedment depth for wall mounts is 3 1/2" and embedment depth for post base plate is 5".

Embed threaded rods into concrete with a Type III (Class C) epoxy meeting the requirements of DMS-6100, "Epoxyes and Adhesives". Mix and dispense adhesive with the manufacturer's static mixing nozzle/dual cartridge system. Core drill holes (percussion drilling not permitted).

At the contractor's option the post base plate anchor bolts may be cast with the Ramp/Sidewalk (See Cast-in-Place Anchor Bolt Options).

Optional cast-in-place anchor bolts will be 5/8" Dia ASTM A307 Grade A bolts (or A36 threaded rods with one tack welded hex nut each) with one hex nut and one hardened steel washer at each bolt. Embedment depth of cast-in-place bolt will be 8" for post base plate.

Handrails and any wall or other surface adjacent to them will be free of any sharp or abrasive elements.

Submit shop drawings to the Engineer unless otherwise noted. For curved handrail applications, fabricate the handrail to the curve if radius is less than 600 ft. Shop drawings are required when rail is fabricated to the curve.

For all handrails, erection drawings will be submitted to the Engineer for approval to ensure proper installation.

Drawings will show handrail mount locations with bolts setting, spacing, ramp slope, and/or splice joint locations, and handrail lengths with identification showing where each handrail goes on the layout.

Payment for concrete sidewalks or curb ramps will be paid for in accordance with Item 531 "Sidewalks".

Payment for all items shown is to be included in unit price bid in accordance with Item 450 "Railing" of the type specified.

All exposed edges will be rounded or chamfered to approximately 1/8" by grinding.

CITY OF SEGUIN SIDEWALK IMPROVEMENTS PROJECT

PEDESTRIAN HANRAIL DETAILS (3 OF 3)

JOB:	15COS002
DATE:	SEPTEMBER 11, 2015
DRAWN:	PM:
DESIGN:	DM:
PEER:	OTHER:
REVISIONS:	
DELTA	DESCRIPTION

SHEET:

