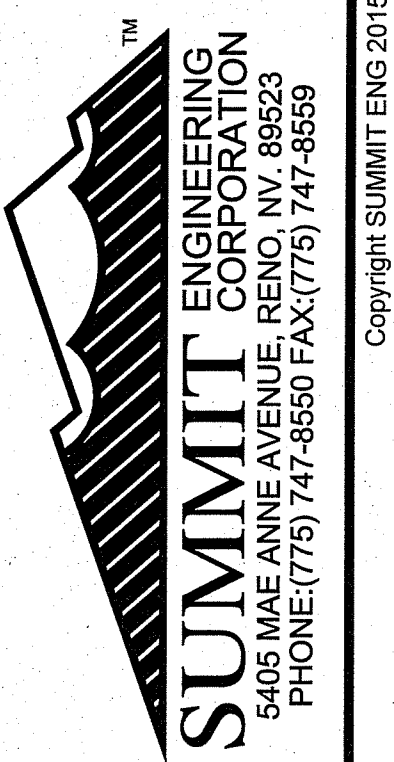


CIVIL IMPROVEMENT PLANS FOR MARIAN WAY & 6TH STREET IMPROVEMENT PROJECT-FEDERALLY FUNDED CITY OF SPARKS, WASHOE COUNTY, NEVADA BID NO. 14/15-012 NEVADA PWP-WA-2015-111



BID SET

APPROVALS

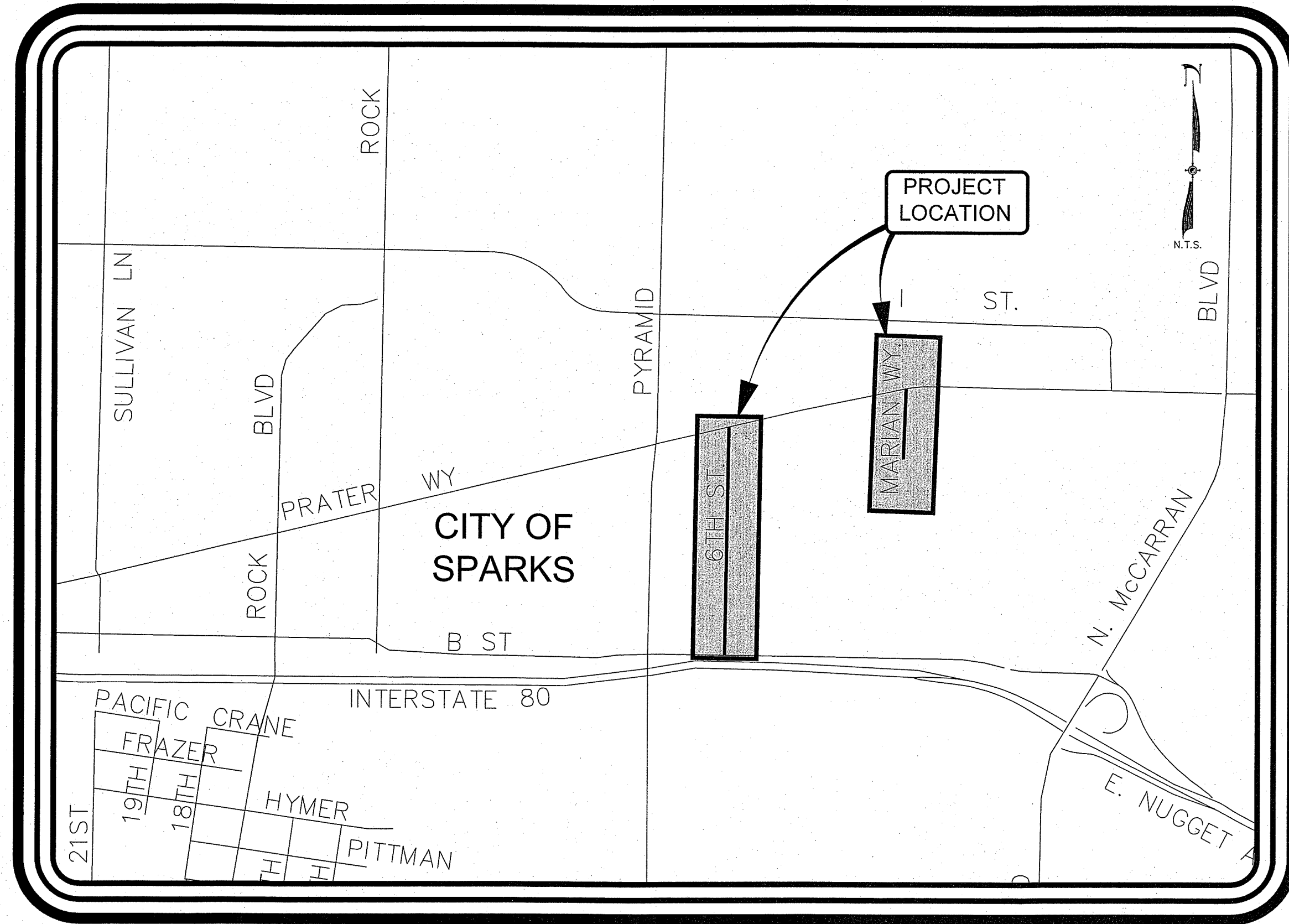


CITY OF SPARKS
 431 PRATER WAY
 SPARKS, NV 89431
 PHONE: (775) 353-2300

GENO MARTINI	MAYOR
STEVE DRISCOLL	CITY MANAGER
JULIA RATTI	CITY COUNCILMAN, WARD 1
ED LAWSON	CITY COUNCILMAN, WARD 2
RON SMITH	CITY COUNCILMAN, WARD 3
CHARLENE BYBEE	CITY COUNCILMAN, WARD 4
RON SCHMITT	CITY COUNCILMAN, WARD 5

Neil C. Krutz
 NEIL C. KRUTZ, PE
 DEPUTY CITY MANAGER FOR COMMUNITY SERVICES
 DATE: 2/24/15

GENO MARTINI
 MAYOR
 DATE: _____

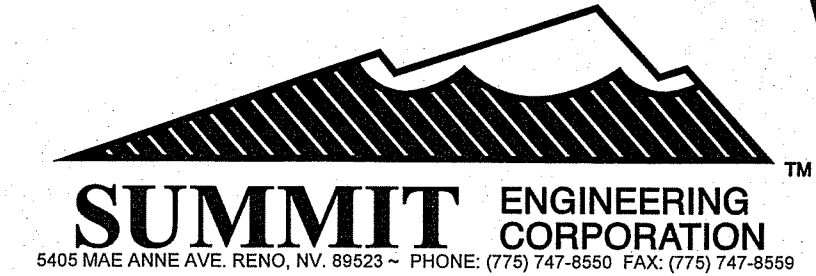


VICINITY MAP
 N.T.S.

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING ROADS, BUILDINGS, OR OTHER STRUCTURES RESULTING FROM OR THROUGH CONSTRUCTION ACTIVITIES. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE AGENCY AND AT NO COST TO THE OWNER. THE CONTRACTOR IS ALSO RESPONSIBLE FOR REPAIRS TO EXISTING LANDSCAPING OR SPECIAL HARDSCAPE FEATURES (I.E., STAMPED CONCRETE, BRICK, DURASTONE, ETC.) DAMAGED BY OR THROUGH CONSTRUCTION ACTIVITIES. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE DESIGN ENGINEER. THE CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO WITHIN THE LIMITS OF CONSTRUCTION. ALL AREAS DISTURBED BY THE CONTRACTOR OR THROUGH HIS/HER CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO THEIR NATURAL OR BETTER CONDITION. THE CONTRACTOR SHALL RECEIVE NO PAYMENT FOR SUCH RESTORATION.
2. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER OF DISCREPANCIES BETWEEN THE INFORMATION SHOWN ON THESE DRAWINGS AND THE CONDITIONS EXISTING IN THE FIELD. ANYTHING MENTIONED IN THE SPECIFICATIONS AND NOT SHOWN ON THESE DRAWINGS, OR SHOWN ON THE DRAWINGS AND NOT MENTIONED IN THE SPECIFICATIONS SHALL BE OF LIKE EFFECT AS IF SHOWN OR MENTIONED IN BOTH. IF THE CONTRACTOR FAILS TO NOTIFY THE DESIGN ENGINEER IN A TIMELY MANNER OF ANY APPARENT ERROR OR OMISSION ON THE PLANS OR IN THE SPECIFICATIONS, THE CONTRACTOR WILL BE RESPONSIBLE FOR CORRECTING WORK INCORRECTLY DONE AT THE CONTRACTOR'S EXPENSE.
3. ALL CONSTRUCTION MATERIALS AND PRACTICES SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION THROUGH 2012 UPDATES), STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, SPECIAL PROVISIONS AND THESE PLANS AND SPECIFICATIONS, AND ALL SAFETY REGULATIONS AND CODES PERTINENT TO THE PROJECT CONSTRUCTION.
4. PAYMENT FOR WORK SHOWN ON THESE PLANS EITHER SPECIFIED OR INFERRED, BUT NOT INCLUDED IN THE BID PROPOSAL SHALL BE CONSIDERED AS INCLUDED IN THE PRICE PAID FOR OTHER ITEMS OF WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL MANHOLE RIMS, UTILITY COVERS, AND SURVEY MONUMENTS WITHIN THE CONSTRUCTION LIMITS ARE SET IN ACCORDANCE WITH MANHOLE COLLAR, UTILITY VALVE, AND SURVEY MONUMENT DETAILS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WATER FOR HIS NEEDS, AS WELL AS STAGING AREA LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR JOB SITE SECURITY FOR MATERIALS, SUPPLIES, EQUIPMENT, ETC., THROUGHOUT THE DURATION OF THE CONTRACT. ALL MATERIALS, WHETHER IN TRANSIT, STORED ON SITE OR INSTALLED AWAITING FINAL ACCEPTANCE ARE THE PROPERTY OF THE CONTRACTOR. ALL LOSS OR DAMAGE TO THE MATERIALS, UNTIL ACCEPTANCE, IS THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
7. THE LOCATION OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY AND INDICATE GENERALLY THEIR LOCATION ACCORDING TO THE BEST KNOWLEDGE OF THE DESIGN ENGINEER. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES NOT LESS THAN FIVE WORKING DAYS PRIOR TO THE START OF CONSTRUCTION TO VERIFY THE LOCATION AND DEPTHS OF UTILITIES. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICES ALERT AT 1-800-227-2600 PRIOR TO COMMENCING ANY EXCAVATION ACTIVITIES FOR UTILITY LOCATION. ANY DAMAGE TO UTILITIES CAUSED BY OPERATIONS OF THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER. THE CONTRACTOR SHALL SUBMIT TO THE DESIGN ENGINEER, A LIST OF UTILITY APPURTENANCES ENCOUNTERED DURING CONSTRUCTION INDICATING STATION AND OFFSET.
8. SUBSURFACE UTILITIES ARE DEPICTED BY THEIR QUALITY LEVELS IN ACCORDANCE AMERICAN SOCIETY OF CIVIL ENGINEERS STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATE (CIASCE 38-02). ALL UTILITY INFORMATION SHOWN HEREON IS DEPICTED TO QUALITY "C" UNLESS OTHERWISE NOTED.
9. DESIGN GRADES SHOWN FOR PEDESTRIAN RAMPS ARE BASED UPON THE BEST INFORMATION AVAILABLE TO THE ENGINEER, BUT MUST BE CONSIDERED APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT PEDESTRIAN RAMP SLOPES WITHIN THE LIMITS OF CONSTRUCTION OF THIS PROJECT ARE COMPLIANT WITH THE APPLICABLE DETAILS. AT ALL POINTS WHERE PEDESTRIAN RAMPS TIE-IN TO EXISTING FACILITIES, GRADES SHALL MATCH TO PROVIDE SMOOTH, CONTINUOUS TRANSITIONS FROM RECONSTRUCTED IMPROVEMENTS TO EXISTING IMPROVEMENTS. DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THESE PLANS WHICH MAY PREVENT COMPLIANT STRUCTURES FROM BEING CONSTRUCTED SHALL BE CALLED TO THE ATTENTION OF THE DESIGN ENGINEER IMMEDIATELY.
10. DURING THE ENTIRE DURATION OF THIS CONSTRUCTION CONTRACT, THE CONTRACTOR SHALL IMPLEMENT STRINGENT DUST CONTROL MEASURES IN ACCORDANCE WITH CITY OF SPARKS AND WASHOE COUNTY HEALTH DEPARTMENT RULES AND REGULATIONS. THE CONTRACTOR IS REQUIRED TO SUPPRESS DUST AT ALL TIMES, 24 HOURS A DAY, REGARDLESS OF WHEN CONSTRUCTION ACTIVITIES ARE OCCURRING. THE CONTRACTOR IS REQUIRED TO HAVE AN APPROVED SWPPP PRIOR TO START OF CONSTRUCTION.
11. PLANTMIX BITUMINOUS PAVEMENT IS TO BE LAID IN LIFTS NOT TO EXCEED THREE INCHES PER LIFT.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEWATERING OPERATIONS, IF REQUIRED, INCLUDING EXPLORATION, DESIGN, ENGINEERING, PERMITTING, INSTALLATION, OPERATION AND CLOSURE METHODS AND OPERATION SHALL BE SUBJECT TO THE ENGINEER'S APPROVAL AND ANY CONDITIONS OR REVIEWING AND PERMITTING AGENCIES.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY EXCAVATION SUPPORT SYSTEMS INCLUDING SHORING. SHORING DESIGN SHALL BE PREPARED BY A NEVADA P.E. AND SHALL BE SUBJECT TO REVIEW AND APPROVAL BY THE ENGINEER.
14. SHOULD ANY PREHISTORIC OR HISTORIC REMAINS/ARTIFACTS BE DISCOVERED DURING SITE DEVELOPMENT, WORK SHALL TEMPORARILY BE HALTED AT THE SPECIFIC SITE AND THE STATE HISTORIC PRESERVATION OFFICE OF THE DEPARTMENT OF MUSEUMS, LIBRARY, AND ARTS, SHALL BE NOTIFIED TO RECORD AND PHOTOGRAPH THE SITE. THE PERIOD OF TEMPORARY DELAY SHALL BE LIMITED TO A MAXIMUM OF TWO (2) WORKING DAYS FROM THE DATE OF NOTIFICATION.
15. CONTRACTOR SHALL PROVIDE A "MANHOLE PROTECTION PLAN" PRIOR TO START OF PROJECT. PLAN SHALL INCLUDE DESCRIPTION AND METHOD OF SYSTEM AND/OR DEVICES TO BE INSTALLED IN ALL SEWER / STORM DRAIN / UTILITY MANHOLES AT ANY TIME THEY ARE EXPOSED (RAISING, LOWERING, ETC.) TO PREVENT ANY DEBRIS FROM ENTERING THE PIPING SYSTEM. CONTAINMENT DEVICE SHALL PROVIDE FOR COMPLETELY CAPTURING, AND RETRIEVING ALL DEBRIS, PRIOR TO REPLACING TEMPORARY OR PERMANENT MANHOLE COVERS. UPON PROJECT COMPLETION, ALL MANHOLES AND CATCH BASINS SHALL BE INSPECTED, AND VERIFIED BY INSPECTOR FOR APPROVAL.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A SUITABLE SEWER VACTOR (VACUUM) TRUCK TO REMOVE CONSTRUCTION MATERIALS FROM MANHOLES, CATCH BASINS AND PIPES. EMERGENCY PHONE CONTACT NUMBER SHALL BE PROVIDED WITH EMERGENCY CONTACTS.
17. ALL SURVEY MONUMENTS TO BE REPLACED. ANY SURVEY WELL MONUMENTS WITHIN PROJECT LIMITS SHALL BE REPLACED BY P.L.S., PER 334.0 ORANGE BOOK, NRS AND STANDARD DETAIL R-124. "ADJUST OR PROTECT IN PLACE" WILL NOT BE ALLOWED.

ENGINEER:



SHEET INDEX

C0.1	TITLE SHEET
C1.0	KEY SHEET - MARIAN WAY
C1.1	DEMOLITION PLAN - MARIAN WAY - STA: "MW" 1+00 TO "MW" 6+00
C1.2	DEMOLITION PLAN - MARIAN WAY - STA: "MW" 6+00 TO END
C1.3	SITE/GRADING PLAN - MARIAN WAY - STA: "MW" 1+00 TO "MW" 6+00
C1.4	SITE/GRADING PLAN - MARIAN WAY - STA: "MW" 6+00 TO END
C2.0	KEY SHEET - 6TH STREET
C2.1	DEMOLITION PLAN - 6TH STREET - STA: "6TH" 1+50 TO 12+90
C2.2	DEMOLITION PLAN - 6TH STREET - STA: "6TH" 12+90 TO END
C2.3	SITE/GRADING PLAN - 6TH STREET - STA: "6TH" 1+50 TO 12+90
C2.4	SITE/GRADING PLAN - 6TH STREET - STA: "6TH" 12+90 TO END
C3.1	DETAIL SHEET
C3.2	DETAIL SHEET
C3.3	DETAIL SHEET
C3.4	DETAIL SHEET
C3.5	DETAIL SHEET
C3.6	DETAIL SHEET
C3.7	DETAIL SHEET

BASIS OF BEARINGS

NORTH AMERICAN DATUM OF 1983 AS BASED ON FEDERAL BASE NETWORK/COOPERATIVE BASE NETWORK OBSERVATIONS IN 1994 (AKA NAD83/94), NEVADA STATE PLANE WEST ZONE AS DETERMINED WITH REAL TIME KINEMATIC (RTK) GPS OBSERVATIONS WITH CORRECTIONS TRANSMITTED BY WASHOE COUNTY CONTINUOUSLY OPERATING REFERENCE STATION (CORS) STATION "NWRENO". GROUND COORDINATES HEREON REFLECT GRID COORDINATES MULTIPLIED BY A COMBINED GRID TO GROUND FACTOR OF 1.000197939.

BASIS OF ELEVATION

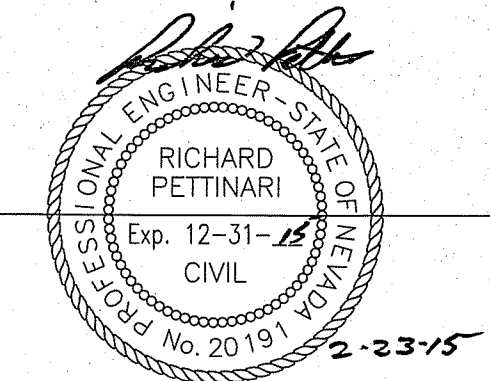
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) PER CITY OF SPARKS BENCHMARK NUMBER 77 TAKEN AS THE PUBLISHED ELEVATION OF 4407.58 BEING A 1.5" DIAMETER STEEL CAP SET IN THE TOP OF CURB AT THE NORTHEAST CORNER OF THE INTERSECTION OF EAST PRATER WAY AND STANDARD WAY BEING 2' EASTERLY OF THE SOUTH RETURN ON EAST PRATER WAY

SPECIFICATIONS

ALL CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (AND ANY APPURTENANT SUPPLEMENTS), SPONSORED AND DISTRIBUTED BY RENO, SPARKS, AND WASHOE COUNTY, AND THE SPECIAL PROVISIONS, GENERAL CONDITIONS, TECHNICAL SPECIFICATIONS, AND OTHER CONTRACT DOCUMENTS.

ENGINEER'S STATEMENT

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH ACCEPTED ENGINEERING PROCEDURES AND GUIDELINES, AND ARE IN SUBSTANTIAL COMPLIANCE WITH APPLICABLE STATUTES, CITY ORDINANCES, AND CODES. IN THE EVENT OF CONFLICT BETWEEN ANY PORTION OF THESE PLANS AND CITY CODES, THE CITY CODES SHALL PREVAIL.



RICHARD PETTINARI P.E. [20191]

BY	APP'D	DESCRIPTION	DATE	REV.

CITY OF SPARKS
 MARIAN WAY & 6TH STREET IMPROVEMENT PROJECT-FEDERALLY FUNDED
 TITLE SHEET
 WASHOE COUNTY
 NEVADA
 SPARKS

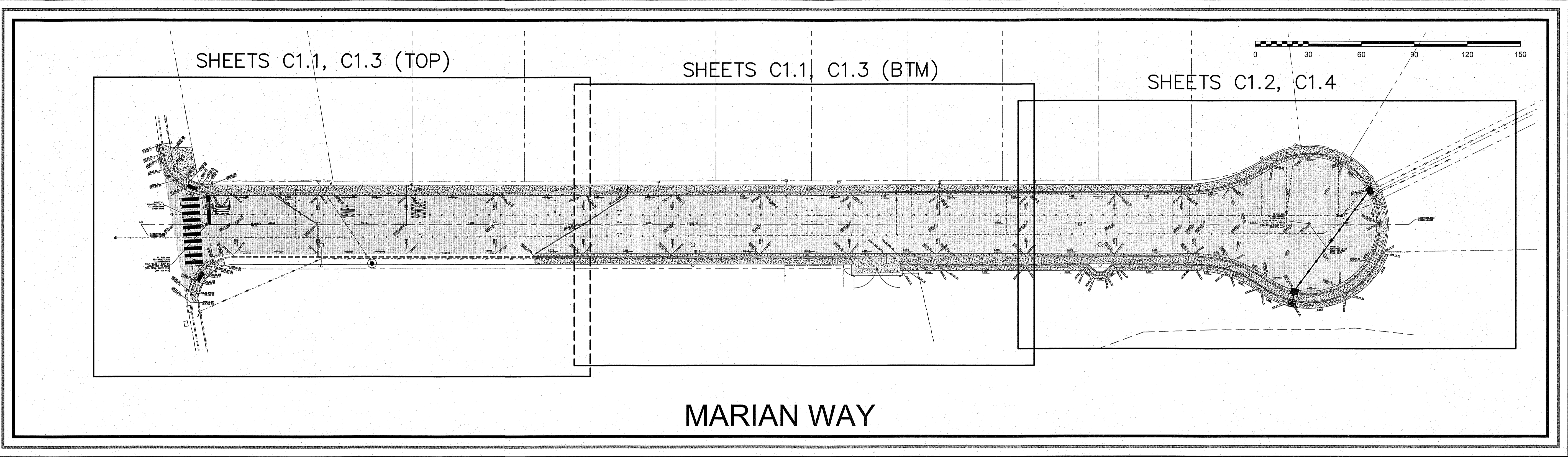
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 JOB NO: 30058

SHEET C0.1 OF 18

CIVIL IMPROVEMENT PLANS FOR CITY OF SPARKS MARIAN WAY & 6TH STREET IMPROVEMENT PROJECT- FEDERALLY FUNDED



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MARIAN WAY

ABBREVIATIONS

#	APPROXIMATE	LT	LEFT
AC	ASPHALTIC CONCRETE	M.D.D.	MINIMUM DRY DENSITY
ACP	.....	ASBESTOS CEMENT PIPE	MISC.	.....	MISCELLANEOUS
AP	.....	ANGLE POINT	MH	.....	MANHOLE
ASTM	.....	AMERICAN SOCIETY PER	NOS.	.....	NUMBERS
		TESTING & MATERIALS	N.T.S.	.....	NOT TO SCALE
BC	.....	BEGIN CURVE	O.D.	.....	OUTSIDE DIAMETER
BS	.....	BACK OF SIDEWALK	PROP.	.....	PROPOSED
BVC	.....	BEGIN VERTICAL CURVE	P	.....	PAD ELEVATION
BW	.....	BACK OF SIDEWALK	PB	.....	PULL BOX
CAP	.....	CAPACITY	P.C.C.	.....	PORTLAND CEMENT CONCRETE
CB	.....	CATCH BASIN	PED.	.....	PEDESTRIAN
CH	.....	CHORD	PI	.....	POINT OF INTERSECTION
CI	.....	CAST IRON	PL	.....	PROPERTY LINE
CL	.....	CENTERLINE	P.L.C.	.....	PROFESSIONAL LAND SURVEYOR
CMP	.....	CORRUGATED METAL PIPE	PM	.....	PARCEL MAP
CONC	.....	CONCRETE	POT	.....	POINT OF TANGENT
CONC	.....	CONSTRUCT	PRC	.....	POINT OF REVERSE CURVATURE
C.O.S.	.....	CITY OF SPARKS	PROP.	.....	PROPOSED
CR	.....	CONCRETE PIPE	PS	.....	PARKING SPACE
CP	.....	CURB RETURN	PUE	.....	PUBLIC UTILITY EASEMENT
DET	.....	DETAIL	PVC	.....	POLYVINYL CHLORIDE PIPE
Ø	.....	INSIDE DIAMETER	Q	.....	VOLUMETRIC FLOW RATE
DI	.....	DROP INLET	R	.....	RADIAL
DIA	.....	DIAMETER	R	.....	RADIUS
DIM.	.....	DIMENSION	RCP	.....	REINFORCED CONCRETE PIPE
DWG	.....	DRAWING	REF.	.....	REFERENCE
DWY	.....	DRIVEWAY	RET	.....	CURB/SIDEWALK/WALL RETURN
E	.....	ELECTRICAL	REQ	.....	REQUIRED
EC	.....	END OF CURVE	RP	.....	REFERENCE POINT
EG	.....	EXISTING GRADE	RT	.....	RIGHT
ELEV	.....	ELEVATION	RW	.....	RIGHT-OF-WAY
EVC	.....	END OF VERTICAL CURVE	S	.....	SLOPE
(E)	.....	EXISTING	SD	.....	STORM DRAIN
EX	.....	EXISTING	SDMH	.....	STORM DRAIN MANHOLE
EXIST.	.....	EXISTING	SHT	.....	SHEET
FES	.....	FLARED END SECTION	S/O	.....	STATION AND OFFSET LINE
FF	.....	FINISHED FLOOR	SS	.....	SANITARY SEWER
FFC	.....	FRONT FACE OF CURB	STA	.....	STATION
FG	.....	FINISHED GRADE	STD	.....	STANDARD
FH	.....	FIRE HYDRANT	SUB	.....	SUB-BASIN
FL	.....	FLOW LINE	SW	.....	SIDEWALK
FW	.....	FRONT OF SIDEWALK	T	.....	TANGENT
G	.....	GAS	TEL	.....	TELEPHONE
GB	.....	GRADE BREAK	TBC	.....	TOP BACK OF CURB
GV	.....	GAS VALVE	TC	.....	TOP OF CURB
HORIZ	.....	HORIZONTAL	TDC	.....	TOP OF DEPRESSED CURB
HPS	.....	HANDICAP SPACE	THRU	.....	THROUGH
HS	.....	HOUSE SERVICE	TP	.....	TEST PIT
ID	.....	INVERT ELEVATION	TW	.....	TOP OF WALL
ID	.....	INSIDE DIAMETER	TYP	.....	TYPICAL
INT	.....	INTERSECTION	VC	.....	VERTICAL CURVE
L	.....	LENGTH	VG	.....	VALLEY GUTTER
LF	.....	LINEAL FEET	VERT	.....	VERTICAL
LIP	.....	LIP OF GUTTER	VPI	.....	VERTICAL POINT OF INTERSECTION
LOC	.....	LIMITS OF CONSTRUCTION	W	.....	WATER
			WW	.....	WATER VALVE
			WV	.....	WITH

LEGEND

---	EX. FENCE LINE		EX. CATCH BASIN / DROP INLET
---	EX. WATERLINE		PROP. CATCH BASIN
---	EX. IRRIGATION LINE		EX. POWER POLE
---	EX. GAS LINE		MANHOLE (HOLLOW IF EXISTING)
---	EX. SANITARY SEWER LINE		SIGN
---	EX. STORM DRAIN LINE		CONCRETE REMOVAL / PLACEMENT
---	PROP. STORM DRAIN LINE		UTILITY VALVE (WATER AND GAS)
---	EX. OVER HEAD POWER LINE		SURVEY MONUMENT
---	EX. UNDER GROUND ELECTRIC		CITY OF SPARKS BENCHMARK
---	EX. FIBER OPTICS LINE		EX. UTILITY VAULT
---	EX. RAW AND PROPERTY LINE		EX. FIRE HYDRANT
---	CONSTRUCTION CENTERLINE		PROP. LIGHT POLE
---	FLOW LINE		EX. LIGHT POLE
---	SAW CUT / LIMITS		PROP. GRADE
---	EX. MINOR CONTOUR		EX. GRADE
---	EX. MAJOR CONTOUR		EX. SLOPE AND DIRECTION
---	EX. FRONT/BACK CURB FACE		PROP. SLOPE AND DIRECTION
---	EX. EDGE OF PAVEMENT		
---	EX. BACK OF WALK		
---	EX. LANDSCAPING		

SWPPP NOTES

STANDARD NOTE No. 1
THE CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAYS AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.

STANDARD NOTE No. 2
ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE CONTRACTOR AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE TRUCKEE MEADOWS CONSTRUCTION SITE BEST MANAGEMENT PRACTICES HANDBOOK.

STANDARD NOTE No. 3
TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO STORM WATER GENERAL PERMIT NVR100000, SECTION 1.B.1.b.(2).

STANDARD NOTE No. 4
AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS AND ALL BMPs WEEKLY, PRIOR TO A FORECASTED RAIN EVENT AND WITHIN 24 HOURS AFTER ANY ACTUAL RAIN EVENT. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORM WATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS FROZEN GROUND CONDITIONS OR SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO STORM WATER GENERAL PERMIT NVR100000, SECTION 1.B.1.g.

STANDARD NOTE No. 5
ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

ADDITIONAL NOTE No. 6
PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL HAVE IN PLACE ALL NECESSARY BEST MANAGEMENT PRACTICES THAT SHALL BE USED TO MINIMIZE DUST, PREVENT EROSION, AND PREVENT POLLUTION LADEN RUNOFF FROM ENTERING THE ADJACENT STORM DRAIN FACILITIES. BMPs MAY INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING BMPs: (1) SILT FENCING OR STRAW WADDLES AT THE DOWNHILL LIMITS OF GRADING, (2) STABILIZED CONSTRUCTION SITE ENTRY/EXIT, (3) PERMANENT SLOPE REVEGETATION ON ALL DISTURBED AREAS, (4) INLET PROTECTION AT EXISTING CATCH BASINS, (5) STOCKPILE MANAGEMENT BMPs, (6) DUST CONTROL BMPs, (7) AND A CONCRETE WASHOUT AREA. THE CONTRACTOR SHALL MAINTAIN, REPAIR, REPLACE, SUBSTITUTE, OR SUPPLEMENT BMPs AT THE CONSTRUCTION SITE AS CONDITIONS WARRANT DURING CONSTRUCTION.

ADDITIONAL NOTE No. 7
ALL BEST MANAGEMENT PRACTICES (BMPs) SHALL BE IN ACCORDANCE WITH THE "THE TRUCKEE MEADOWS CONSTRUCTION SITE BEST MANAGEMENT PRACTICES HANDBOOK, DATED JUNE 2008".



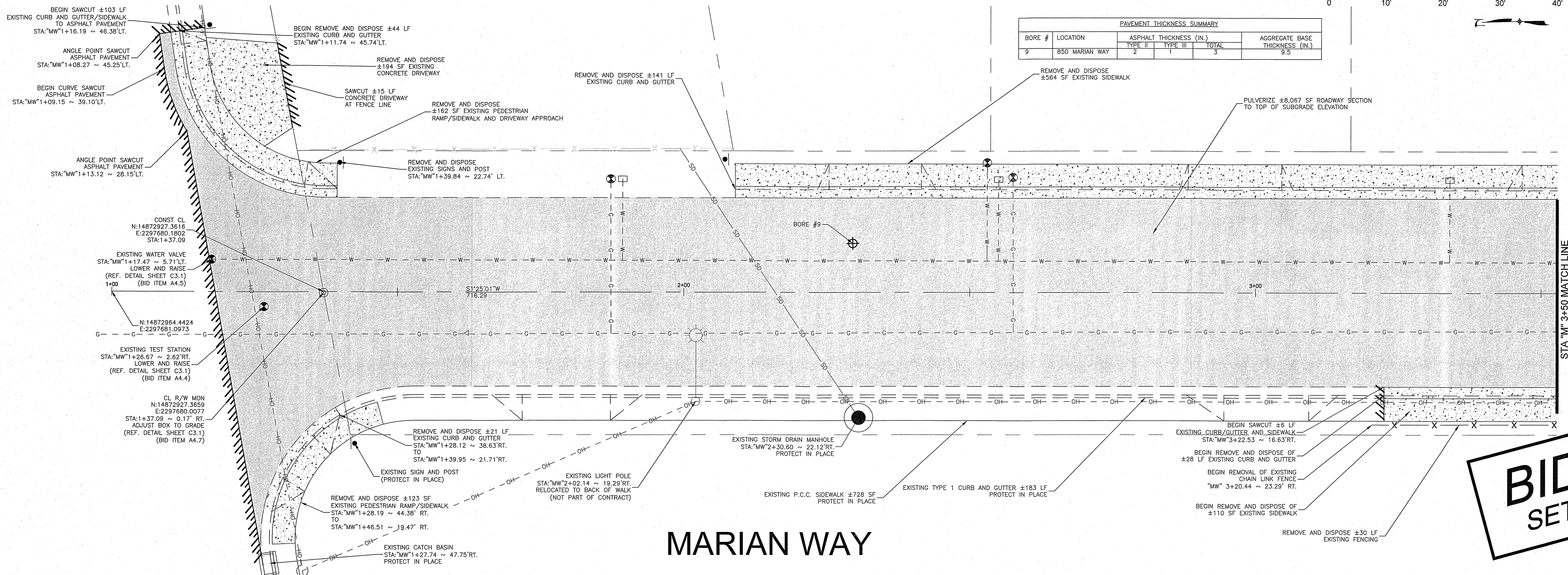
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UNDERGROUND SERVICE (USA)

REV.	DATE	DESCRIPTION	BY	APPD

CITY OF SPARKS
MARIAN WAY & 6TH STREET IMPROVEMENT PROJECT-FEDERALLY FUNDED
KEY MAP - MARIAN WAY
SPARKS WASHOE COUNTY NEVADA

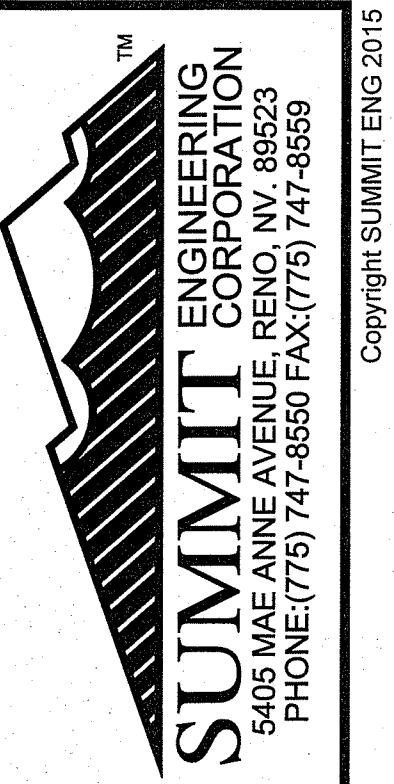
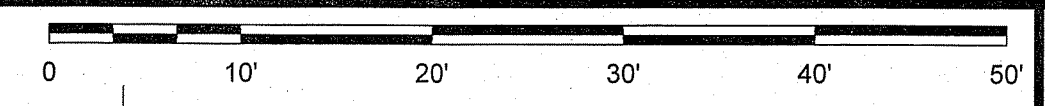
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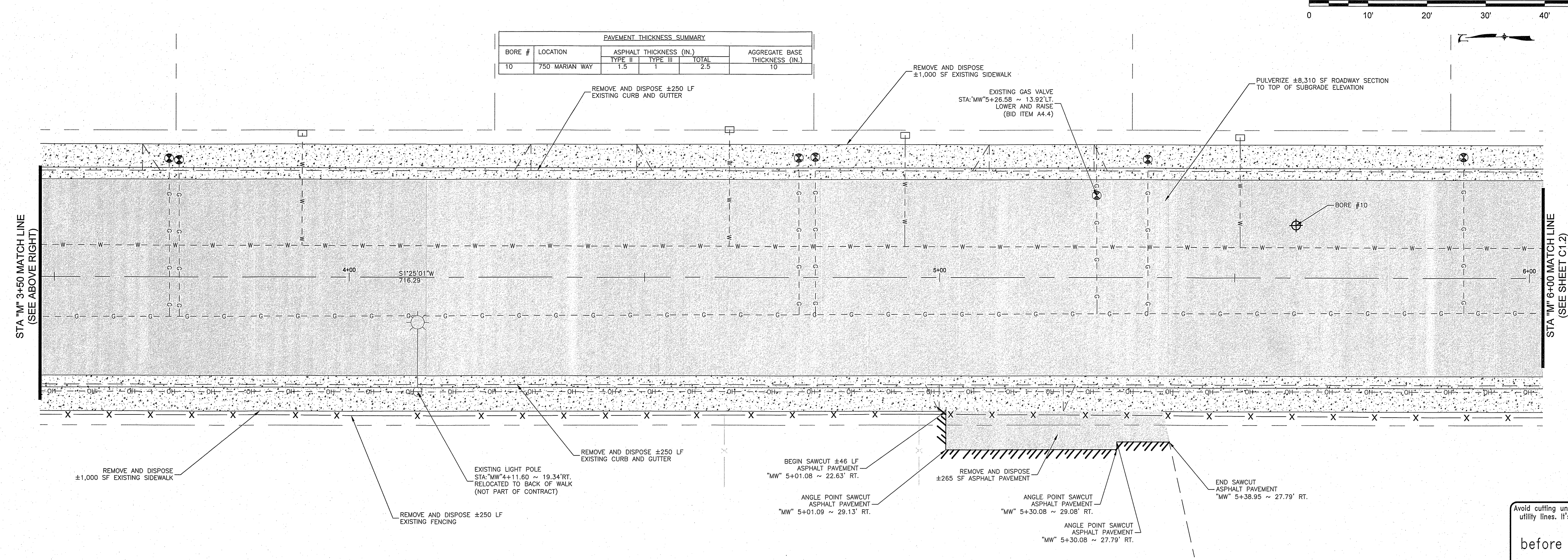


MARIAN WAY

PAVEMENT THICKNESS SUMMARY					
BORE #	LOCATION	ASPHALT THICKNESS (IN.)			AGGREGATE BASE THICKNESS (IN.)
		TYPE II	TYPE III	TOTAL	
9	850 MARIAN WAY	2	1	3	9.5



REV	DATE	DESCRIPTION	BY	APPD



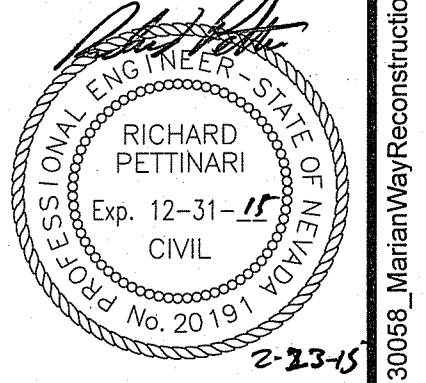
MARIAN WAY

PAVEMENT THICKNESS SUMMARY					
BORE #	LOCATION	ASPHALT THICKNESS (IN.)			AGGREGATE BASE THICKNESS (IN.)
		TYPE II	TYPE III	TOTAL	
10	750 MARIAN WAY	1.5	1	2.5	10



CITY OF SPARKS
 MARIAN WAY & 6TH STREET IMPROVEMENT PROJECT-FEDERALLY FUNDED
 DEMO PLAN - MARIAN WAY ~ STA "MW" 1+00 TO STA "MW" 6+00
 SPARKS WASHOE COUNTY NEVADA

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 CHECKED BY: RP
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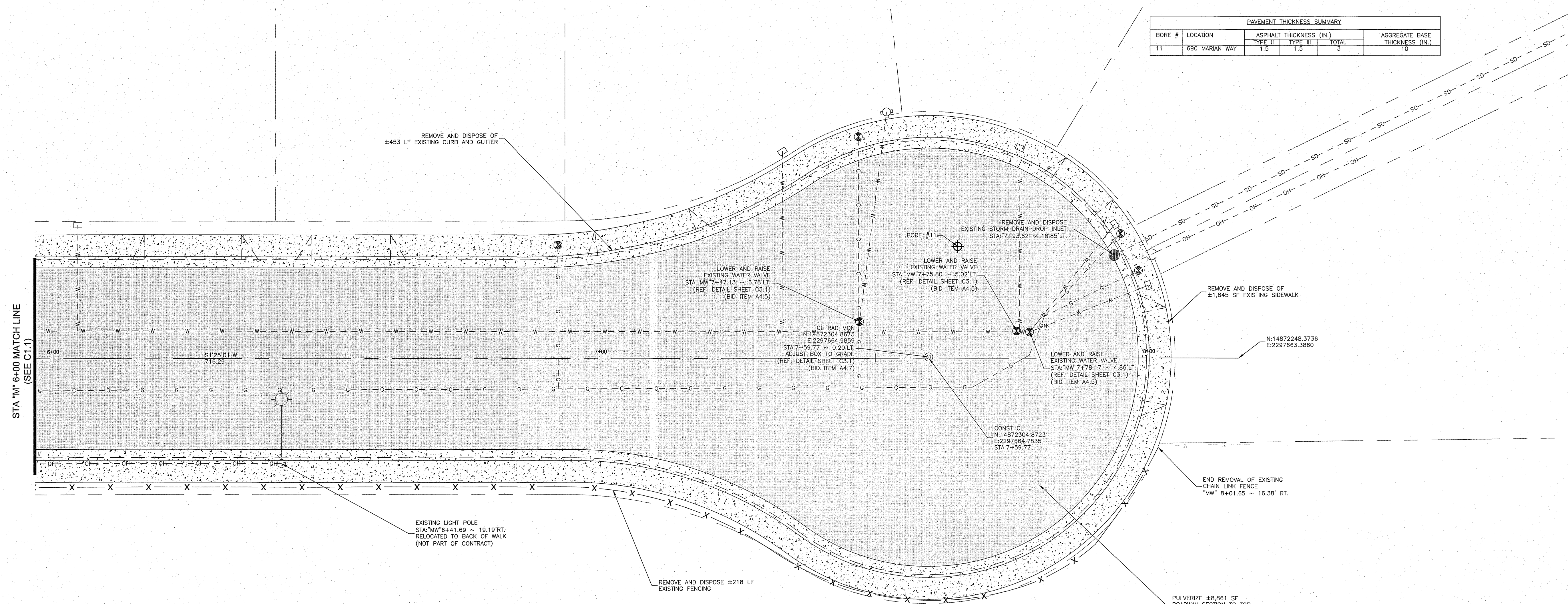


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PAVEMENT THICKNESS SUMMARY					
BORE #	LOCATION	ASPHALT THICKNESS (IN.)			AGGREGATE BASE THICKNESS (IN.)
		TYPE II	TYPE III	TOTAL	
11	690 MARIAN WAY	1.5	1.5	3	10

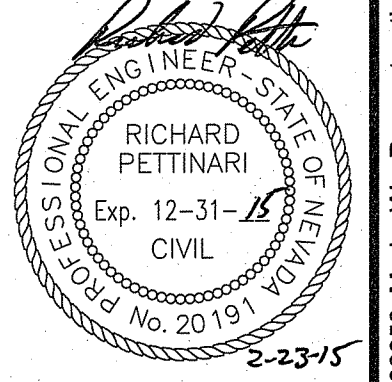


STA "M" 6+00 MATCH LINE
(SEE C1.1)

REV	DATE	DESCRIPTION	BY	APP'D
2				

CITY OF SPARKS
 MARIAN WAY & 6TH STREET IMPROVEMENT PROJECT-FEDERALLY FUNDED
 DEMO PLAN - MARIAN WAY ~ STA "MW" 6+00 TO END
 SPARKS WASHOE COUNTY NEVADA

DESIGNED BY: EM
 CHECKED BY: RP
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 HORIZ: 1"=10'
 VERT: N/A
 JOB NO: 30058

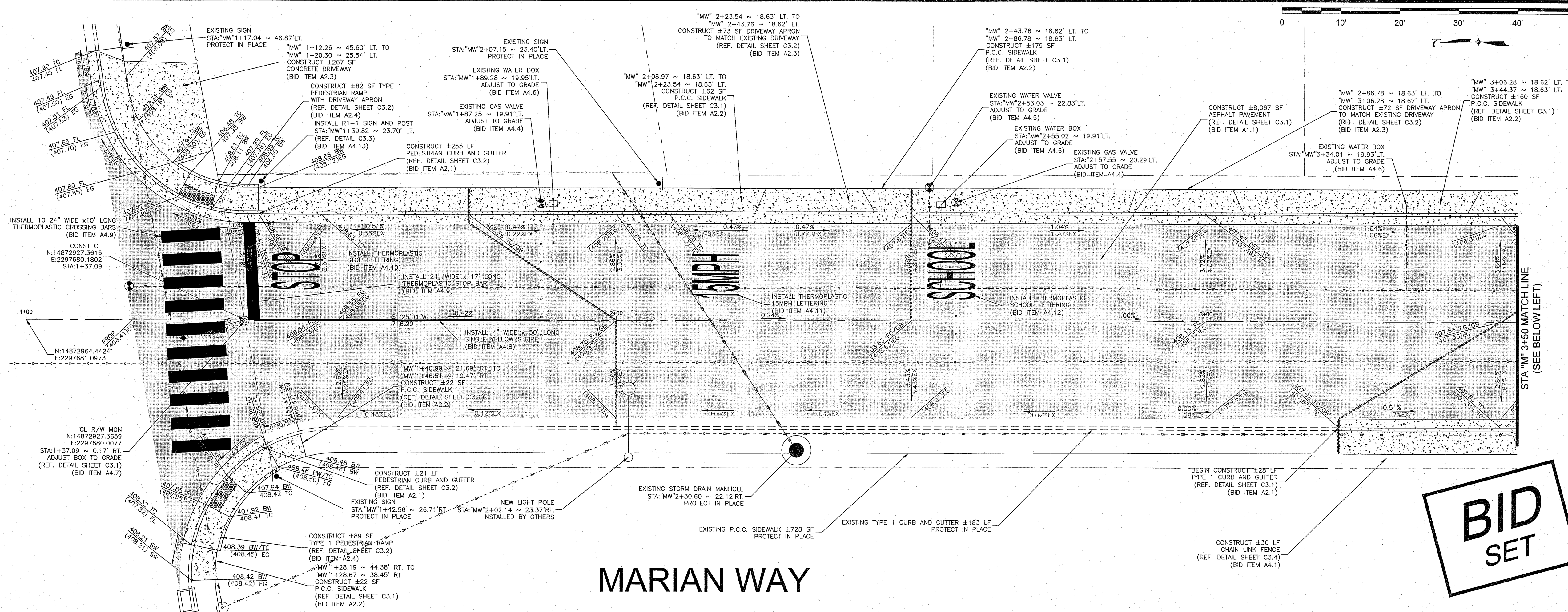


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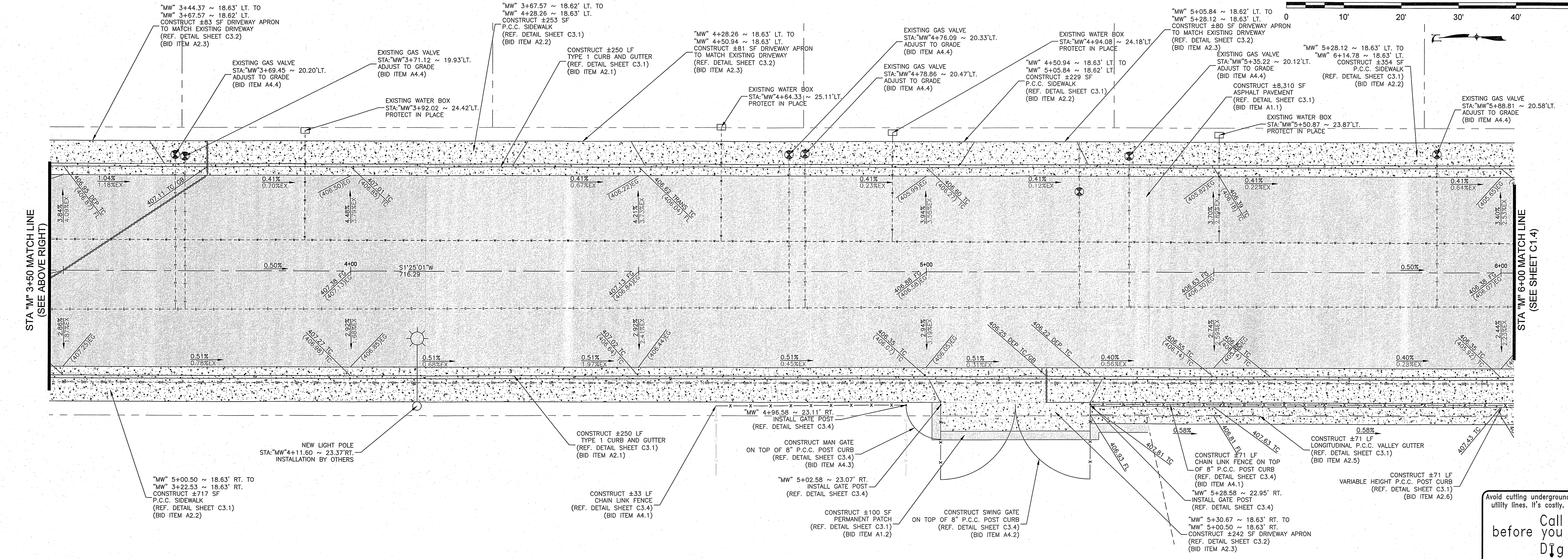
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MARIAN WAY

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MARIAN WAY



MARIAN WAY

SUMMIT ENGINEERING CORPORATION
 5405 WAE ANNE AVENUE, RENO, NV. 89523
 PHONE: (775) 747-8550 FAX: (775) 747-8559

REV.	DATE	DESCRIPTION	BY	APPD.

CITY OF SPARKS
 MARIAN WAY & 6TH STREET IMPROVEMENT PROJECT-FEDERALLY FUNDED
 SITE/GRADING PLAN - MARIAN WAY ~ STA "MW" 1+00 TO STA "MW" 6+00
 SPARKS WASHOE COUNTY NEVADA

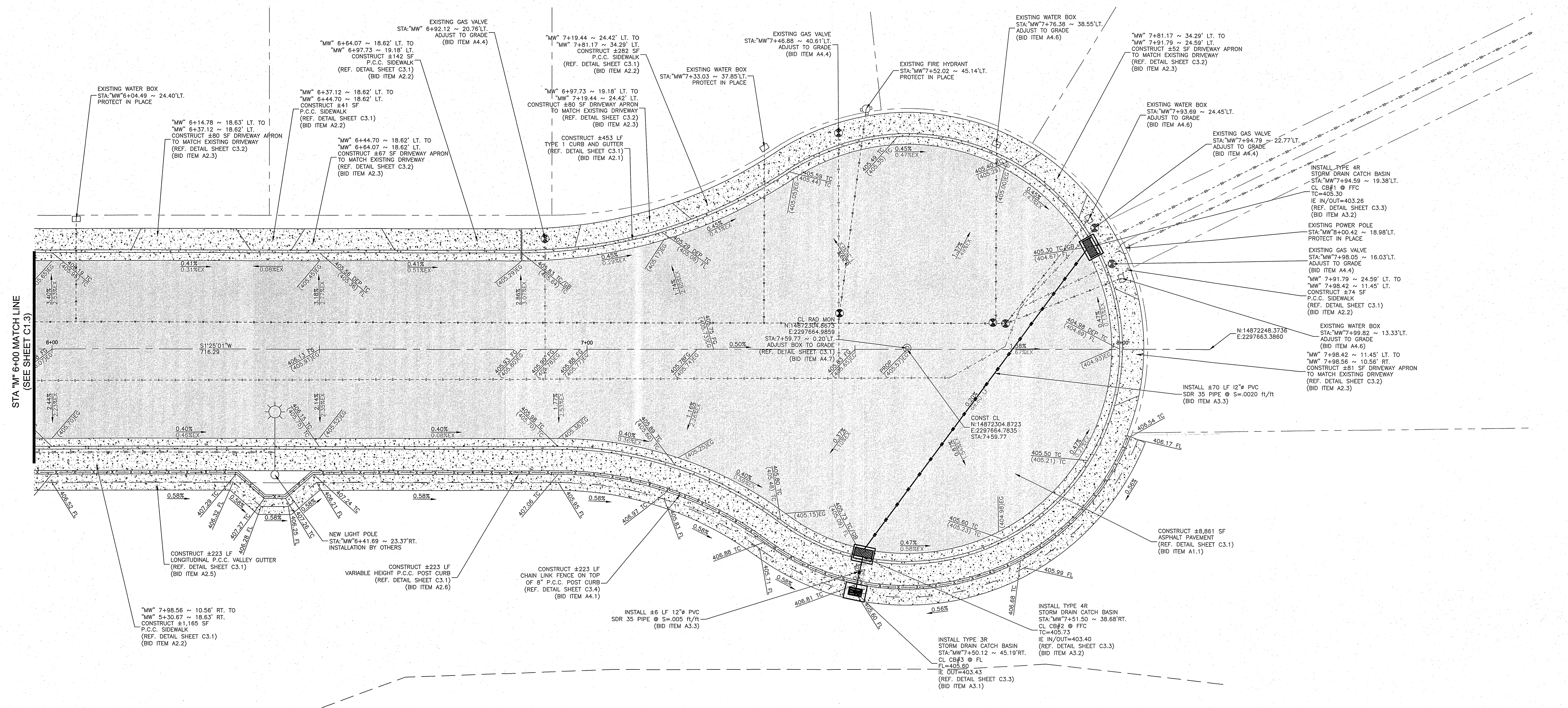
DESIGNED BY: EM
 CHECKED BY: RP
 SCALE
 HORIZ: 1"=10'
 VERT: N/A
 JOB NO: 30058

RICHARD PETTINARI
 PROFESSIONAL ENGINEER - STATE OF NEVADA
 Exp. 12-31-2019
 No. 20191

Avoid cutting underground utility lines. It's costly.
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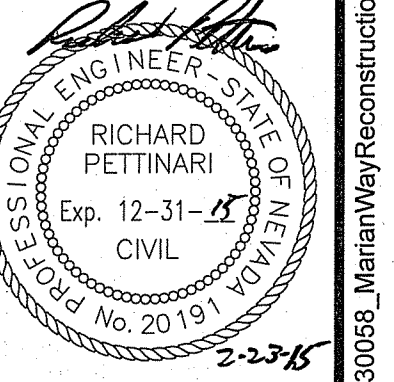


STA "M" 6+00 MATCH LINE
(SEE SHEET C1.3)

REV	DATE	DESCRIPTION	BY	APPD

CITY OF SPARKS
 MARIAN WAY & 6TH STREET IMPROVEMENT PROJECT-FEDERALLY FUNDED
 SITE/GRADING PLAN - MARIAN WAY ~ STA "MW" 6+00 TO END
 SPARKS WASHOE COUNTY NEVADA

DESIGNED BY: EM
 CHECKED BY: RP
 SCALE
 HORIZ: 1"=10'
 VERT: N/A
 JOB NO: 30058



BID SET

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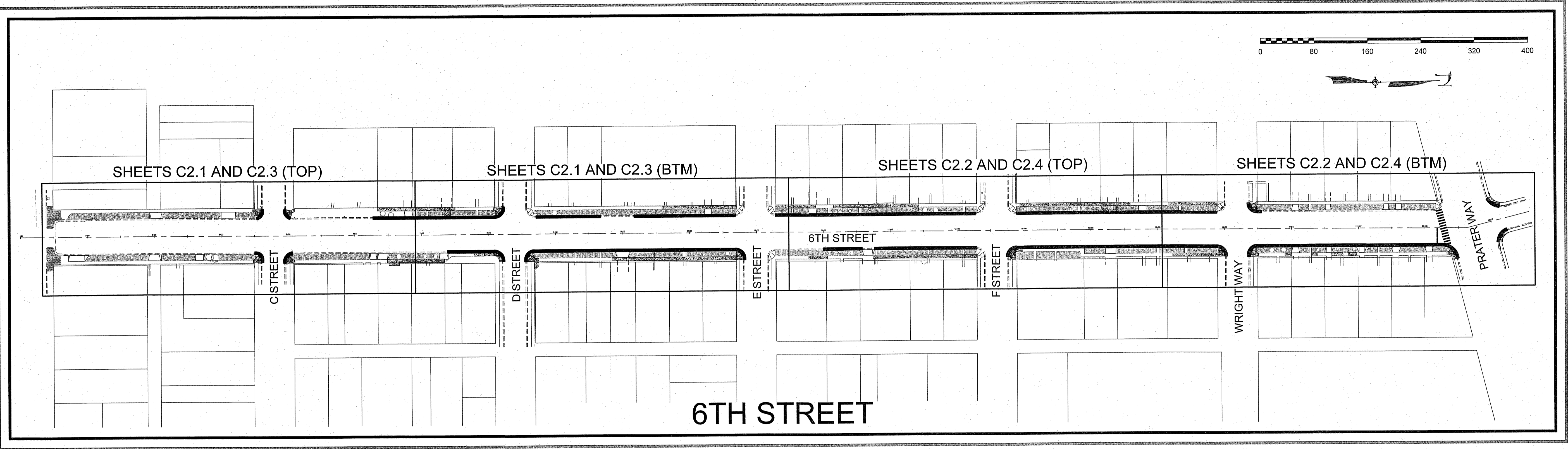
MARIAN WAY

N:\DWGS\30058_MarianWay\Reconstruction\Civil\MW_SITE.DWG - 11:03 AM - 23-FEB-2015

CIVIL IMPROVEMENT PLANS FOR CITY OF SPARKS MARIAN WAY & 6TH STREET IMPROVEMENT PROJECT- FEDERALLY FUNDED



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ABBREVIATIONS

±	APPROXIMATE	LT	LEFT
AC	ASPHALTIC CONCRETE	M.D.D.	MAXIMUM DRY DENSITY
ACP	ASBESTOS CEMENT PIPE	MISC.	MISCELLANEOUS
AP	ANGLE POINT	MH	MANHOLE
ASTM	AMERICAN SOCIETY PER TESTING & MATERIALS	NOS.	NUMBERS
BC	BEGIN CURVE	N.T.S.	NOT TO SCALE
BS	BACK OF SIDEWALK	O.D.	OUTSIDE DIAMETER
BVC	BEGIN VERTICAL CURVE	PROP.	PROPOSED
BW	BACK OF SIDEWALK	P	PAD ELEVATION
CAP	CAPACITY	PB	PULL BOX
CB	CATCH BASIN	P.C.C.	PORTLAND CEMENT CONCRETE
CH	CHORD	PED.	PEDESTRIAN
CI	CAST IRON	PI	POINT OF INTERSECTION
CL	CENTERLINE	PL	PROPERTY LINE
CMP	CORRUGATED METAL PIPE	P.L.C.	PROFESSIONAL LAND SURVEYOR
CONC.	CONCRETE	PM	PARCEL MAP
CONST.	CONSTRUCT	POT	POINT OF TANGENT
C.O.S.	CITY OF SPARKS	PRC	POINT OF REVERSE CURVATURE
CP	CONCRETE PIPE	PROP.	PROPOSED
CR	CURB RETURN	PS	PARKING SPACE
DET	DETAIL	PUE	PUBLIC UTILITY EASEMENT
Ø	INSIDE DIAMETER	PVC	POLYVINYL CHLORIDE PIPE
DI	DROP INLET	Q	VOLUMETRIC FLOW RATE
DIA	DIAMETER	(P)	RADIAL
DM	DIMENSION	R	RADIUS
DWG	DRAWING	RCP	REINFORCED CONCRETE PIPE
DWY	DRIVEWAY	REF.	REFERENCE
E	ELECTRICAL	RET	CURB/SIDEWALK/WALL RETURN
EC	END OF CURVE	REQ	REQUIRED
EG	EXISTING GRADE	RP	REFERENCE POINT
ELEV	ELEVATION	RT	RIGHT
EVC	END OF VERTICAL CURVE	RW	RIGHT-OF-WAY
(E)	EXISTING	S	SLOPE
EX.	EXISTING	SD	STORM DRAIN
EXIST.	EXISTING	SDMH	STORM DRAIN MANHOLE
FES	FLARED END SECTION	SHT	SHEET
FF	FINISHED FLOOR	S/O	STATION AND OFFSET LINE
FFC	FRONT FACE OF CURB	SS	SANITARY SEWER
FG	FINISHED GRADE	STA	STATION
FH	FIRE HYDRANT	STD	STANDARD
FL	FLOW LINE	SUB	SUB-BASIN
FW	FRONT OF SIDEWALK	SW	SIDEWALK
G	GAS	T	TANGENT
GB	GRADE BREAK	TEL	TELEPHONE
GV	GAS VALVE	TBC	TOP BACK OF CURB
HORIZ	HORIZONTAL	TC	TOP OF CURB
HPS	HANDICAP SPACE	TDC	TOP OF DEPRESSION CURB
HS	HOUSE SERVICE	THRU	THROUGH
IE	INVERT ELEVATION	TP	TEST PIT
ID	INSIDE DIAMETER	TW	TOP OF WALL
INT	INTERSECTION	TYP	TYPICAL
L	LENGTH	VC	VERTICAL CURVE
LF	LINAL FEET	VG	VALLEY GUTTER
LIP	LIP OF GUTTER	VERT	VERTICAL
LOC	LIMITS OF CONSTRUCTION	VPI	VERTICAL POINT OF INTERSECTION
		W	WATER
		WV	WATER VALVE
		WV	WITH

LEGEND

---	EX. FENCE LINE		EX. CATCH BASIN / DROP INLET
---	EX. WATERLINE		PROP. CATCH BASIN
---	EX. IRRIGATION LINE		EX. POWER POLE
---	EX. GAS LINE		MANHOLE (HOLLOW IF EXISTING)
---	EX. SANITARY SEWER LINE		EX. SIGN
---	EX. STORM DRAIN LINE		PROP. SIGN
---	PROP. STORM DRAIN LINE		CONCRETE REMOVAL / PLACEMENT
---	EX. OVER HEAD POWER LINE		PROP. TRUNCATED DOME PAD
---	EX. UNDER GROUND ELECTRIC		WATER MONITORING WELL
---	EX. FIBER OPTICS LINE		UTILITY VALVE (WATER AND GAS)
---	EX. FENCE/GATE		SURVEY MONUMENT
---	EX. RAW AND PROPERTY LINE		CITY OF SPARKS BENCHMARK
---	CONSTRUCTION CENTERLINE		EX. UTILITY VAULT
---	FLOW LINE		EX. FIRE HYDRANT
---	SAW CUT / LIMITS		EX. LIGHT POLE
---	EX. JERSEY BARRIER		TOP OF CURB GRADE
---	EX. MINOR CONTOUR		FLOW LINE GRADE
---	EX. MAJOR CONTOUR		EX. SLOPE AND DIRECTION
---	EX. FRONT/BACK CURB FACE		PROP. SLOPE AND DIRECTION
---	EX. EDGE OF PAVEMENT		

SWPPP NOTES

STANDARD NOTE No. 1
THE CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAYS AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.

STANDARD NOTE No. 2
ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE CONTRACTOR AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE TRUCKEE MEADOWS CONSTRUCTION SITE BEST MANAGEMENT PRACTICES HANDBOOK.

STANDARD NOTE No. 3
TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO STORM WATER GENERAL PERMIT NVR100000, SECTION 1.B.1.(2).

STANDARD NOTE No. 4
AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS. AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT AREA EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS AND ALL BMP'S WEEKLY, PRIOR TO A FORECASTED RAIN EVENT AND WITHIN 24 HOURS AFTER ANY ACTUAL RAIN EVENT. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORM WATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY. SUCH AS FROZEN GROUND CONDITIONS OR SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO STORM WATER GENERAL PERMIT NVR100000, SECTION 1.B.1.g.

STANDARD NOTE No. 5
ACCUMULATED SEDIMENT IN BMP'S SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

ADDITIONAL NOTE No. 6
PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL HAVE IN PLACE ALL NECESSARY BEST MANAGEMENT PRACTICES THAT SHALL BE USED TO MINIMIZE DUST, PREVENT EROSION, AND PREVENT POLLUTION LADEN RUNOFF FROM ENTERING THE ADJACENT STORM DRAIN FACILITIES. BMP'S MAY INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING BMP'S: (1) SILT FENCING OR STRAW WADDLERS AT THE DOWNHILL LIMITS OF GRADING, (2) STABILIZED CONSTRUCTION SITE ENTRY/EXIT, (3) PERMANENT SLOPE REVEGETATION ON ALL DISTURBED AREAS, (4) INLET PROTECTION AT EXISTING CATCH BASINS, (5) STOCKPILE MANAGEMENT BMP'S, (6) DUST CONTROL BMP'S, (7) AND A CONCRETE WASHOUT AREA. THE CONTRACTOR SHALL MAINTAIN, REPAIR, REPLACE, SUBSTITUTE, OR SUPPLEMENT BMP'S AT THE CONSTRUCTION SITE AS CONDITIONS WARRANT DURING CONSTRUCTION.

ADDITIONAL NOTE No. 7
ALL BEST MANAGEMENT PRACTICES (BMP'S) SHALL BE IN ACCORDANCE WITH THE "THE TRUCKEE MEADOWS CONSTRUCTION SITE BEST MANAGEMENT PRACTICES HANDBOOK, DATED JUNE 2008".

BID
SET

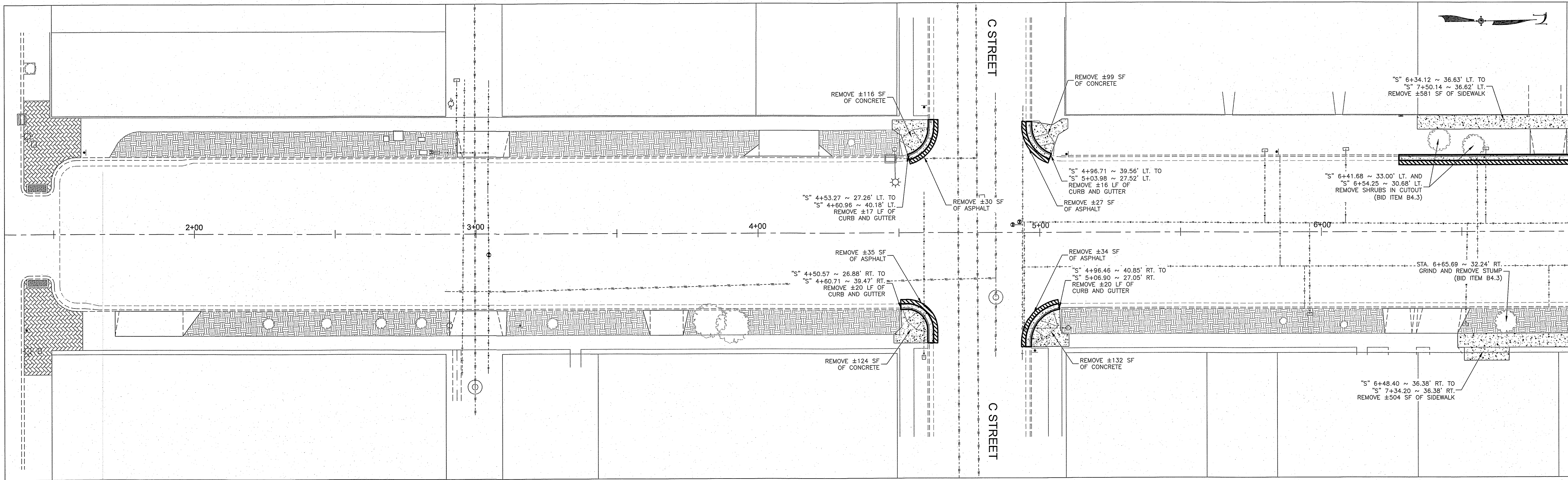
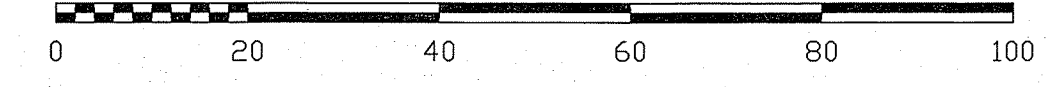
Avoid cutting underground utility lines. It's costly.
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REV.	DATE	DESCRIPTION	BY	APP'D

CITY OF SPARKS
MARIAN WAY & 6TH STREET IMPROVEMENT PROJECT-FEDERALLY FUNDED
KEY MAP
WASHOE COUNTY
SPARKS
NEVADA

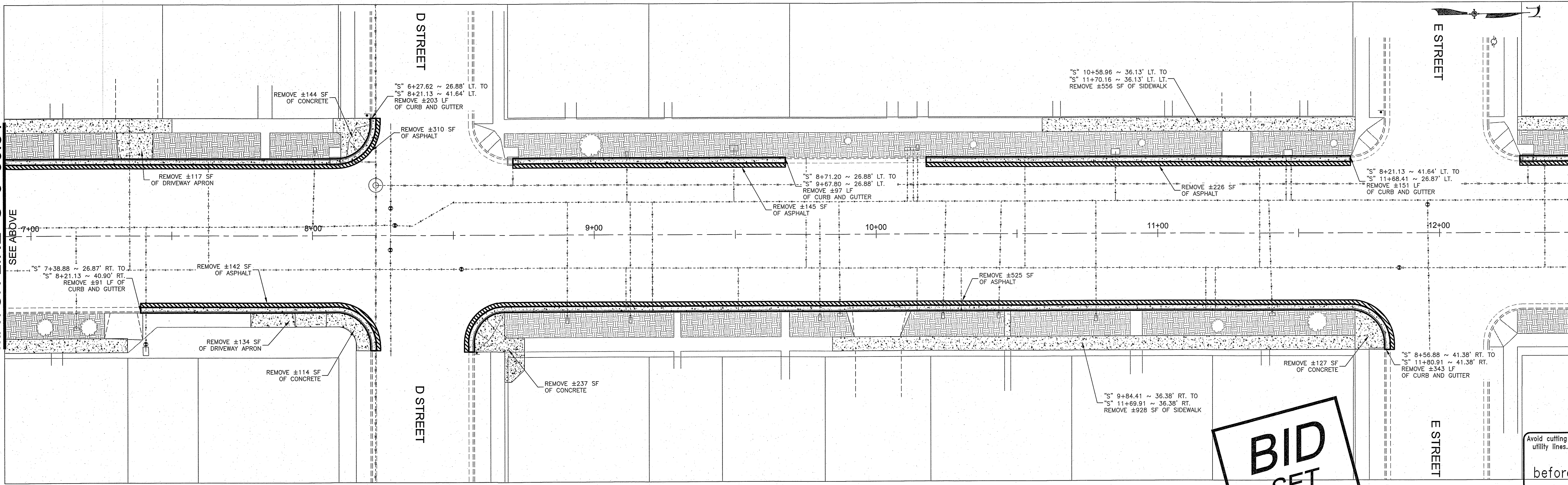
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JOB NO: 30058
SHEET C2.0 OF 18

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MATCH LINE "S" 6+90.54
SEE BELOW

6TH STREET



MATCH LINE "S" 6+90.54
SEE ABOVE

MATCH LINE "S" 12+48.51
SEE SHEET C1.4

BID SET

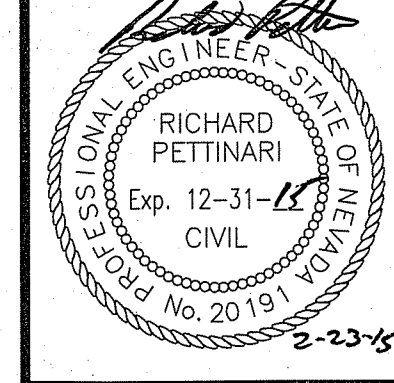
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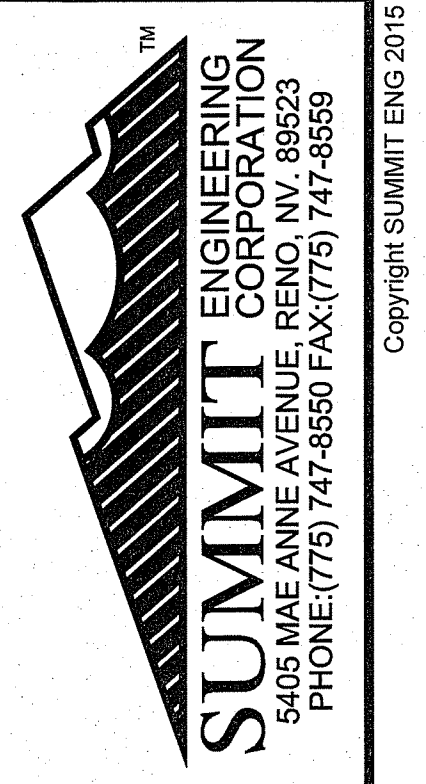
REV.	DATE	DESCRIPTION	BY	APP'D

CITY OF SPARKS
 MARIAN WAY & 6TH STREET IMPROVEMENT PROJECT-FEDERALLY FUNDED
DEMOLITION PLAN SHEET
 SPARKS WASHOE COUNTY NEVADA

DESIGNED BY: GR
 CHECKED BY:
 SCALE
 HORIZ: 1"=20'
 VERT:
 JOB NO: 30058

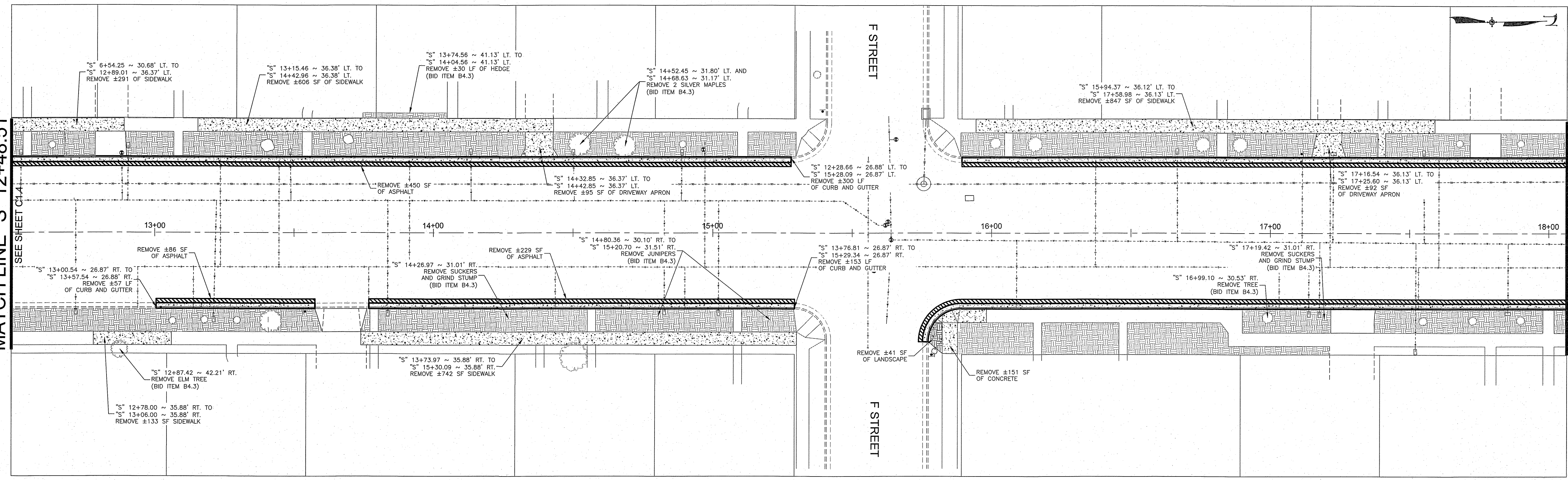


SHEET C2.1 OF 18



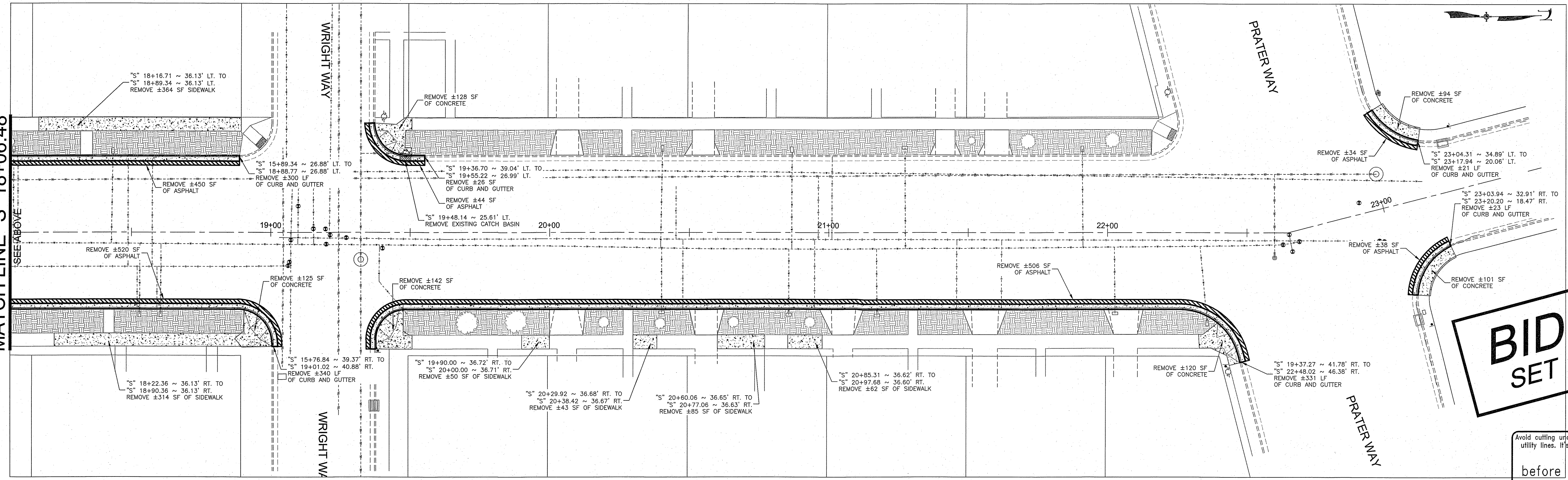
MATCH LINE "S" 12+48.51

MATCH LINE "S" 18+06.48



6TH STREET

MATCH LINE "S" 18+06.48



BID SET

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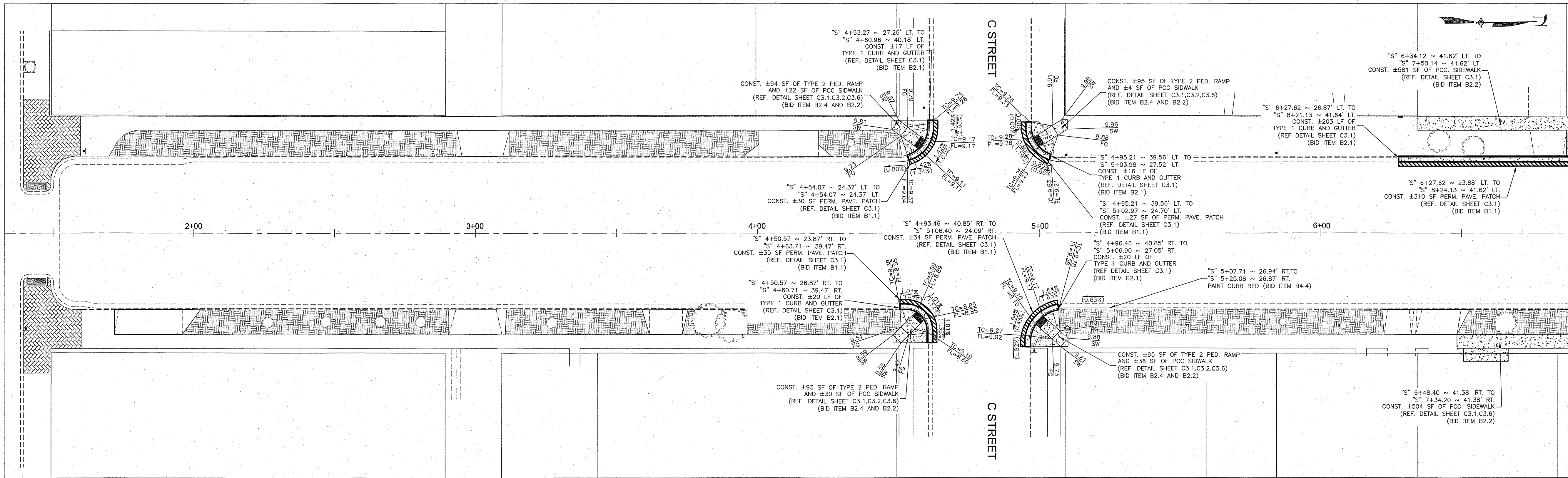
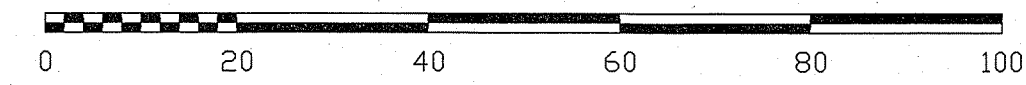
REV.	DATE	DESCRIPTION	BY	APPD

CITY OF SPARKS
 MARIAN WAY & 6TH STREET IMPROVEMENT PROJECT-FEDERALLY FUNDED
DEMOLITION PLAN SHEET
 SPARKS WASHOE COUNTY NEVADA

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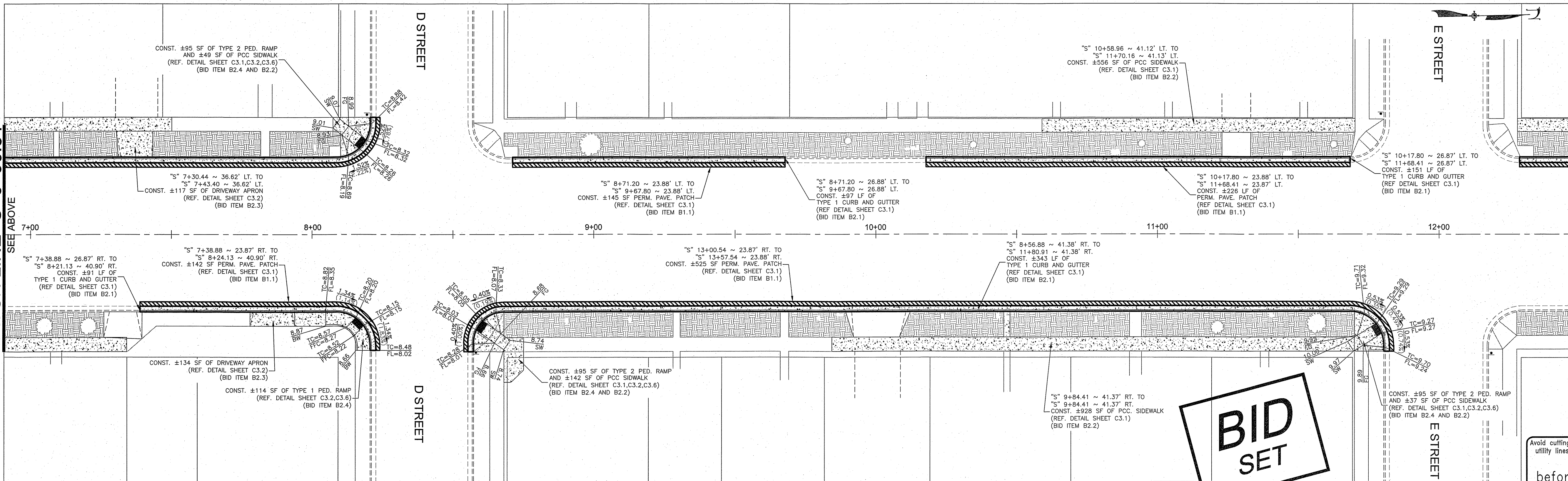
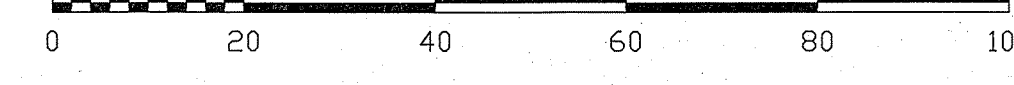
PROFESSIONAL ENGINEER - STATE OF NEVADA
 RICHARD PETTINARI
 Exp. 12-31-16
 CIVIL
 No. 20191

SHEET **C2.2** OF **18**



6TH STREET

MATCH LINE "S" 6+90.54
SEE BELOW



MATCH LINE "S" 6+90.54
SEE ABOVE

MATCH LINE "S" 12+48.51
SEE SHEET C2.4

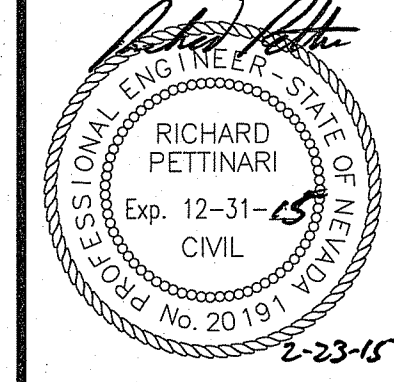
BID SET

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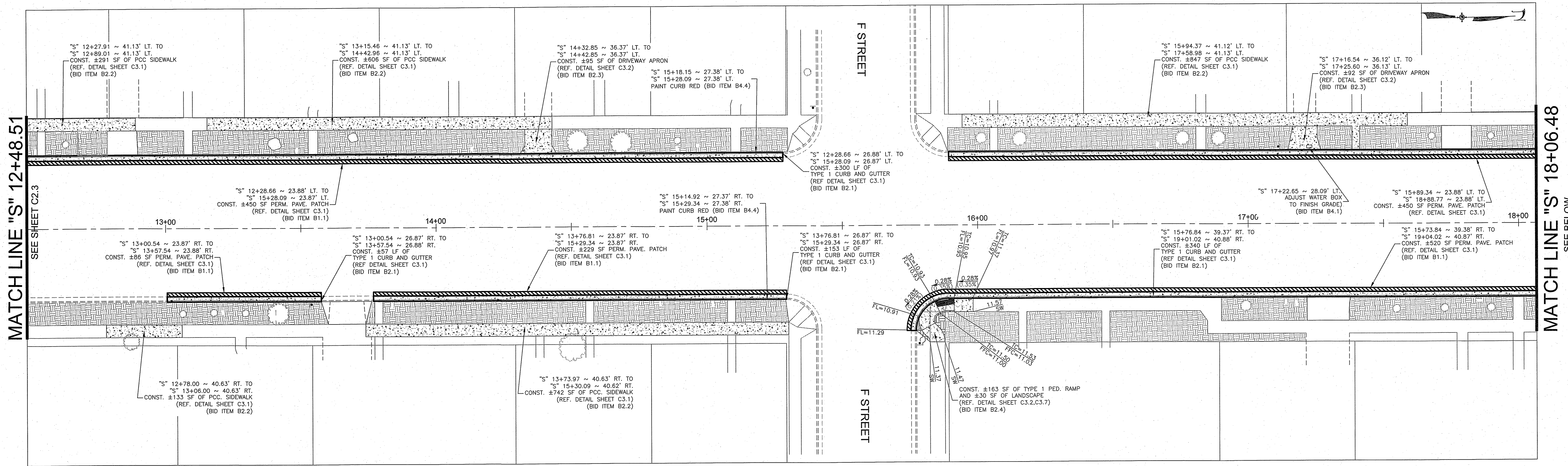
REV.	DATE	DESCRIPTION	BY	APP'D

CITY OF SPARKS
MARIAN WAY & 6TH STREET IMPROVEMENT PROJECT-FEDERALLY FUNDED
SITE AND GRADING PLAN SHEET
SPARKS WASHOE COUNTY NEVADA

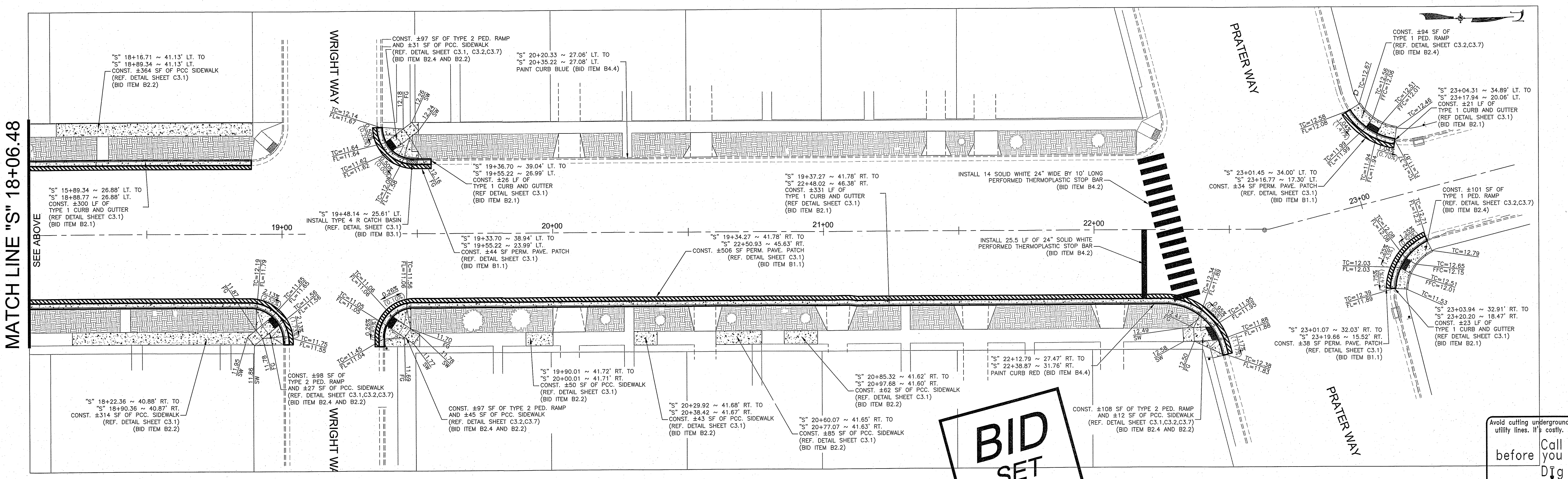
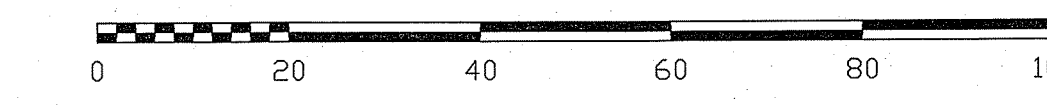
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HORIZ: 1"=20'
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JOB NO: 30058



SHEET C2.3 OF 18



6TH STREET



BID SET

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REV.	DATE	DESCRIPTION	BY	APPD

CITY OF SPARKS
MARIAN WAY & 6TH STREET IMPROVEMENT PROJECT-FEDERALLY FUNDED
SITE AND GRADING PLAN SHEET
SPARKS WASHOE COUNTY NEVADA

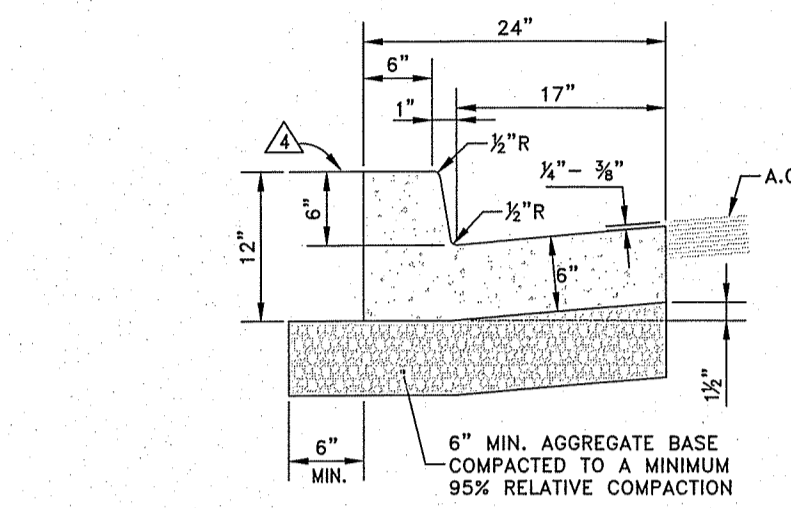
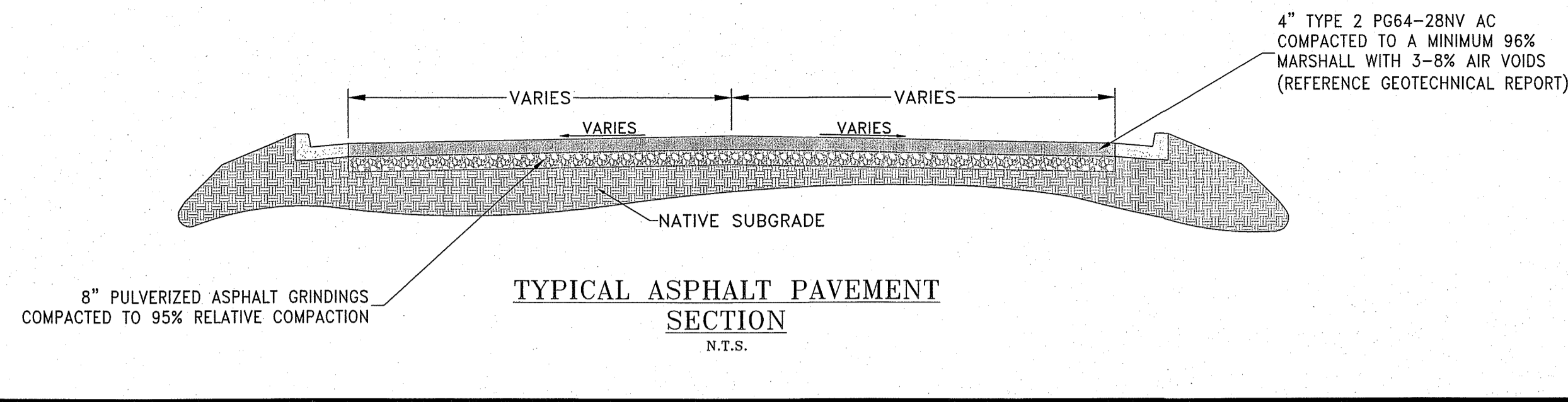
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JOB NO: 30058

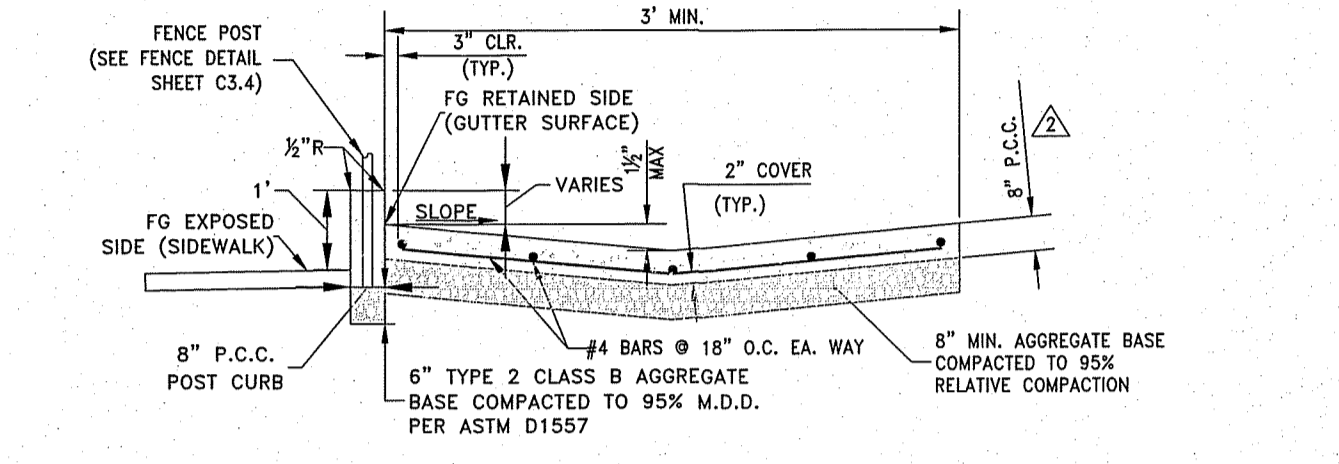
RICHARD PATTINARI
PROFESSIONAL ENGINEER - STATE OF NEVADA
Exp. 12-31-22
CIVIL
No. 20191

SHEET **C2.4** OF **18**



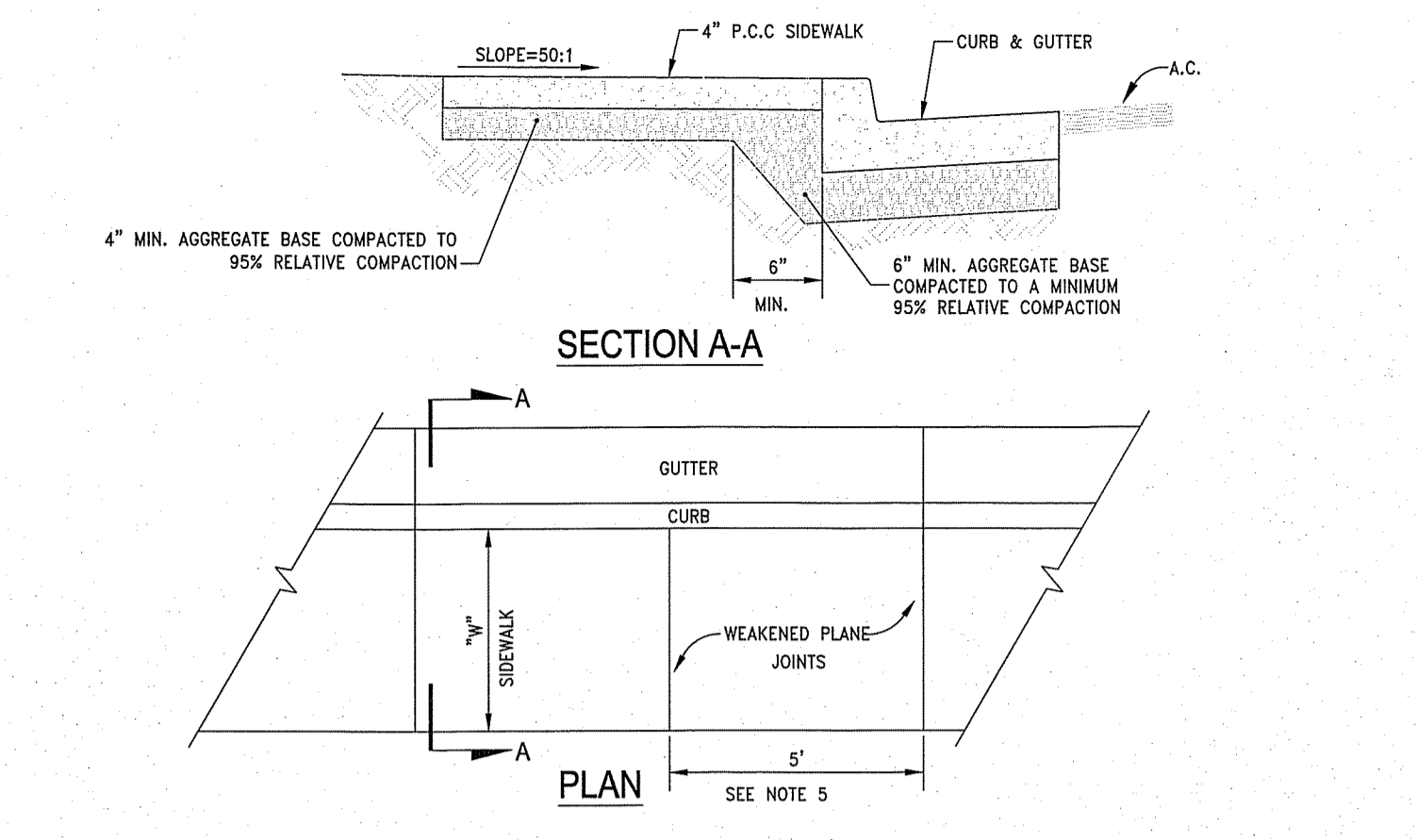
- NOTES:**
- FIBER-REINFORCED PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX. WATER-CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. MIX DESIGN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 337 OF STANDARD SPECIFICATIONS OF PUBLIC WORKS CONSTRUCTION (SSPWC). CEMENT SHALL BE TYPE II. ALL CEMENT CONCRETE SHALL HAVE A COARSE AGGREGATE GRADATION CONFORMING TO SIZE NO. 67. POLYPROPYLENE OR CELLULOSE FIBERS SHALL BE ADDED TO THE P.C.C. AT 1.5 LBS. PER CUBIC YARD. ALL MATERIALS SHALL CONFORM SSPWC.
 - AGGREGATE BASE MATERIAL UNDER AND BEHIND CURB AND GUTTER SHALL BE TYPE 2, CLASS B CRUSHED AGGREGATE BASE. MATERIALS SHALL CONFORM TO SSPWC SECTION 200.
 - WEAKENED PLANE JOINTS SHALL BE EVERY 10 FEET AND LOCATED ON THE BACK, TOP AND FACE OF THE CURB AND THE TOP OF THE GUTTER PAN.
 - CURB & GUTTER SECTIONS SHALL BE SEPARATELY FROM SIDEWALK SECTIONS. WHEN SIDEWALK IS NOT REQUIRED DIRECTLY BEHIND THE CURB, BACKFILL TO TOP OF CURB FOR A HORIZONTAL DISTANCE OF 12" FROM BACK FACE OF CURB AND COMPACT TO 95% RELATIVE COMPACTION.
 - FOR REPLACEMENT OF EXISTING CURB AND GUTTER, MATCH EXISTING TYPE.

TYPICAL TYPE 1 P.C.C. CURB AND GUTTER SECTION
N.T.S. DATE: 1/2013



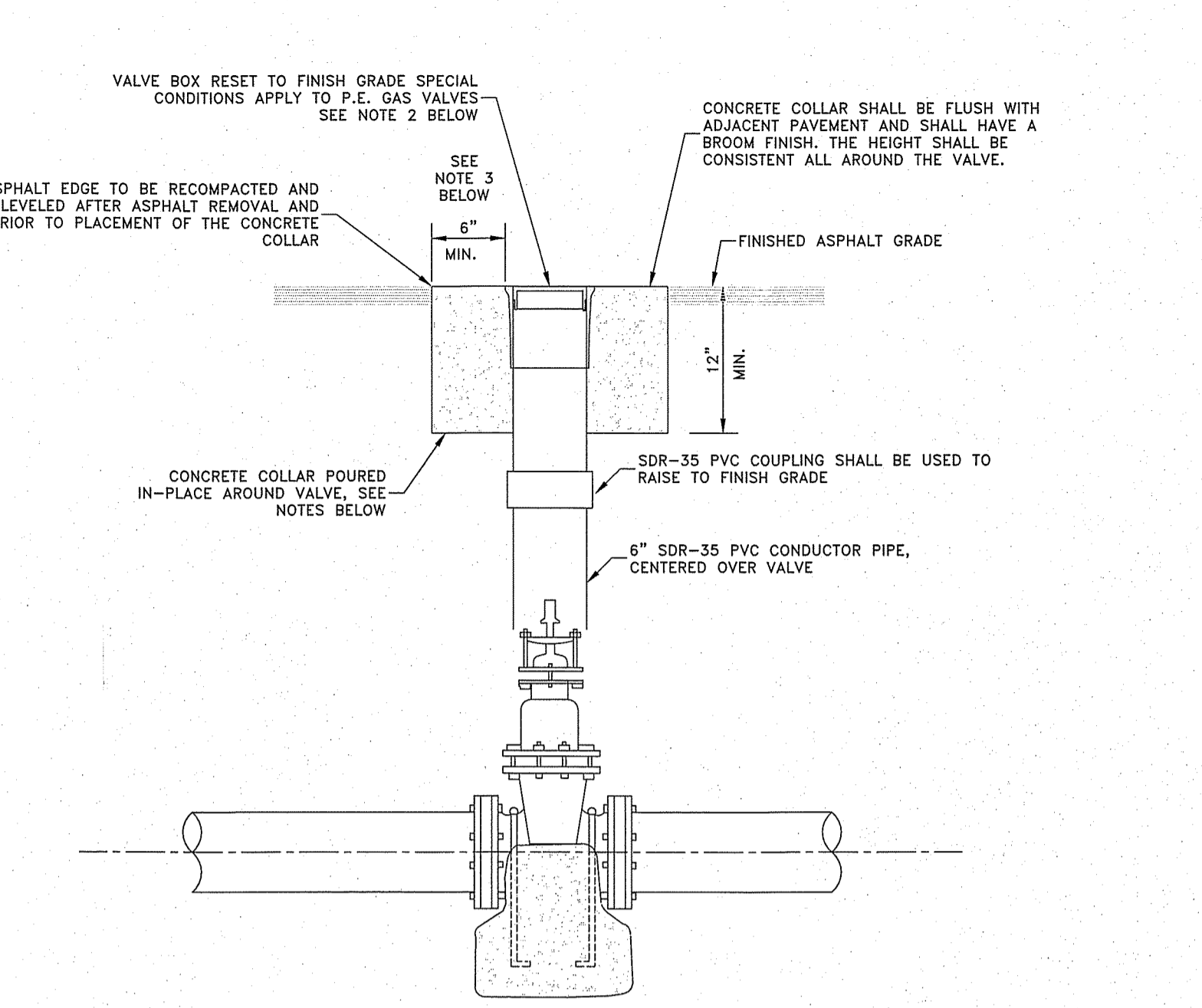
- VALLEY GUTTER NOTES:**
- THIS GUTTER DESIGN IS FOR USE ON CITY STREETS.
 - FIBER-REINFORCED PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX. WATER-CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. MIX DESIGN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 337 OF STANDARD SPECIFICATIONS OF PUBLIC WORKS CONSTRUCTION (SSPWC). CEMENT SHALL BE TYPE II. ALL CEMENT CONCRETE SHALL HAVE A COARSE AGGREGATE GRADATION CONFORMING TO SIZE NO. 67. POLYPROPYLENE OR CELLULOSE FIBERS SHALL BE ADDED TO THE P.C.C. AT 1.5 LBS. PER CUBIC YARD. ALL MATERIALS SHALL CONFORM TO SSPWC.
 - AGGREGATE BASE MATERIAL UNDER SIDEWALKS SHALL BE TYPE 2, CLASS B CRUSHED AGGREGATE BASE. MATERIALS SHALL CONFORM TO SSPWC SECTION 200.
- P.C.C. POST CURB NOTES:**
- FIBER-REINFORCED PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MINIMUM COMPRESSIVE STRENGTH @ 28 DAYS, MINIMUM 6 SACKS OF CEMENT PER CUBIC YARD WITH A MAXIMUM WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5% SLUMP AT 1 TO 4 INCHES. ALL MATERIALS SHALL CONFORM TO SSPWC SECTION 202. POLYPROPYLENE FIBERS SHALL BE ADDED TO THE P.C.C. PER THE MANUFACTURER'S RECOMMENDATIONS.
 - ALL CONCRETE CURB, GUTTER AND SIDEWALK SHALL HAVE 1/2" EXPANSION JOINTS EVERY 30' (UNLESS APPROVED OTHERWISE BY THE ENGINEER) AND AT ALL CURB RETURNS AND SHALL HAVE WEAKENED PLANE JOINTS EVERY 10 FEET.
 - AGGREGATE BASE MATERIAL SHALL CONFORM TO THE SPECIFICATIONS FOR TYPE 2 AGGREGATE BASE AND BE COMPARABLE TO A MIN. 95% MAX. DRY DENSITY.
 - LANDSCAPE CURB SHALL BE TYPE 1 P.C.C. POST CURB EXCEPT IT SHALL HAVE 0" REVEAL (6" BURY ONLY).

VARIABLE HEIGHT P.C.C. POST CURB & LONGITUDINAL P.C.C. VALLEY GUTTER SECTION
N.T.S. DATE: 1/2013



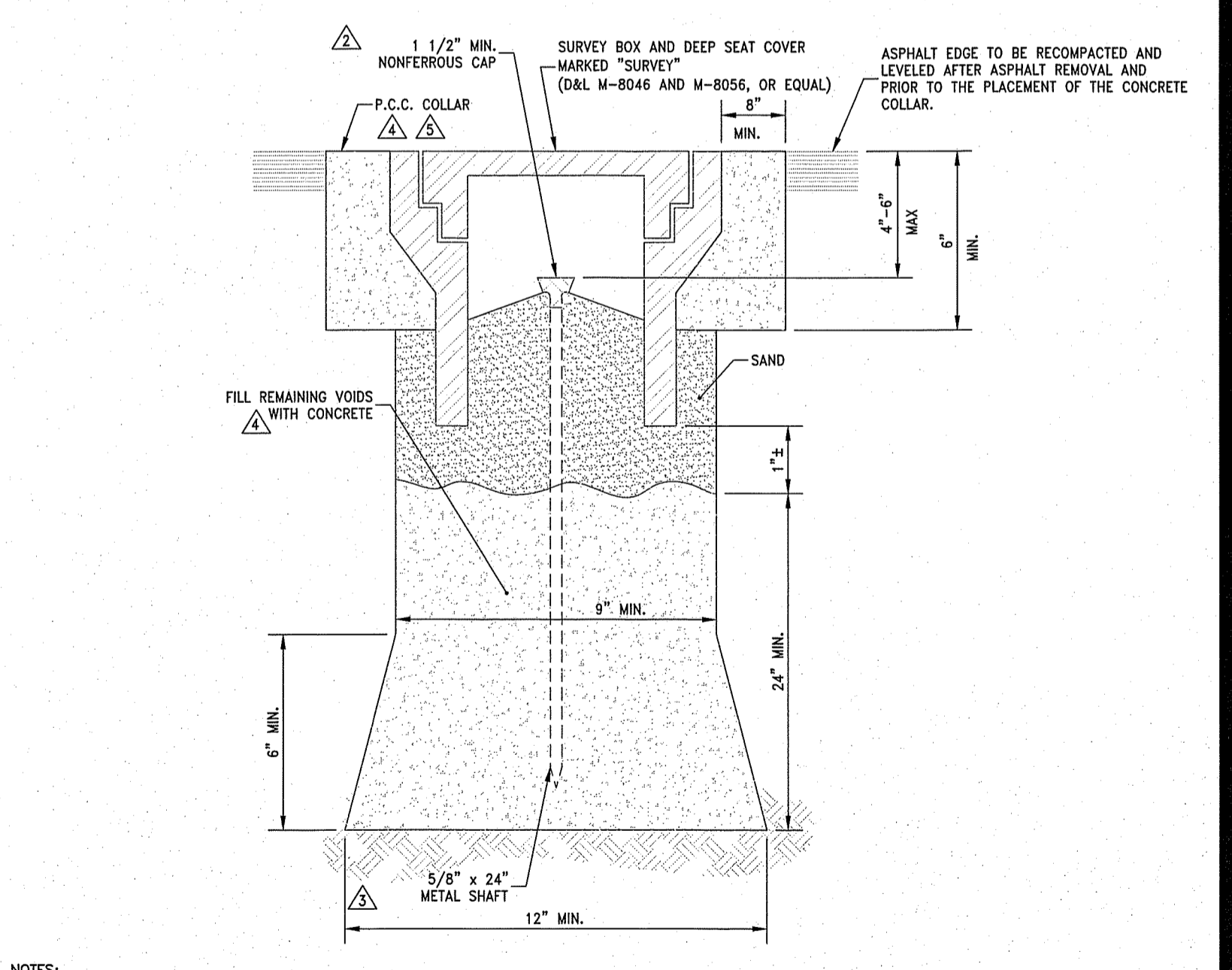
- NOTES:**
- FIBER-REINFORCED PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX. WATER-CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. MIX DESIGN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 337 OF STANDARD SPECIFICATIONS OF PUBLIC WORKS CONSTRUCTION (SSPWC). CEMENT SHALL BE TYPE II. ALL CEMENT CONCRETE SHALL HAVE A COARSE AGGREGATE GRADATION CONFORMING TO SIZE NO. 67. POLYPROPYLENE OR CELLULOSE FIBERS SHALL BE ADDED TO THE P.C.C. AT 1.5 LBS. PER CUBIC YARD. ALL MATERIALS SHALL CONFORM TO SSPWC.
 - AGGREGATE BASE MATERIAL UNDER SIDEWALKS SHALL BE TYPE 2, CLASS B CRUSHED AGGREGATE BASE. MATERIALS SHALL CONFORM TO SSPWC SECTION 200.
 - SIDEWALK WIDTH "W" SHALL BE 4 FT MIN. ON RESIDENTIAL STREETS AND 6 FT MIN. ON COLLECTOR AND ARTERIAL STREETS.
 - WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT 5 FT INTERVALS AND ACCORDANCE WITH SECTION 312 OF THE SSPWC.
 - ALL ADJACENT CONCRETE REMOVAL SHALL BE TO NEAT SAW CUT LINES AT RIGHT ANGLES TO NEW SIDEWALK, DOWEL INTO EXISTING ADJACENT CONCRETE SIDEWALK WITH A MINIMUM OF TWO (2) NO. 4 REINFORCEMENT BARS EQUALLY SPACED ACROSS WIDTH "W". DOWELS SHALL PENETRATE A MINIMUM OF 4" INTO EXISTING CONCRETE.
 - SIDEWALKS SHALL NOT BE POURED MONOLITHICALLY WITH CURBS.
 - COLOR CONCRETE AND PAVERS ARE NOT ALLOWED.
 - TUNNELING AND/OR BORING IS NOT ALLOWED.

TYPICAL P.C.C. SIDEWALK SECTION
N.T.S. DATE: 1/2013



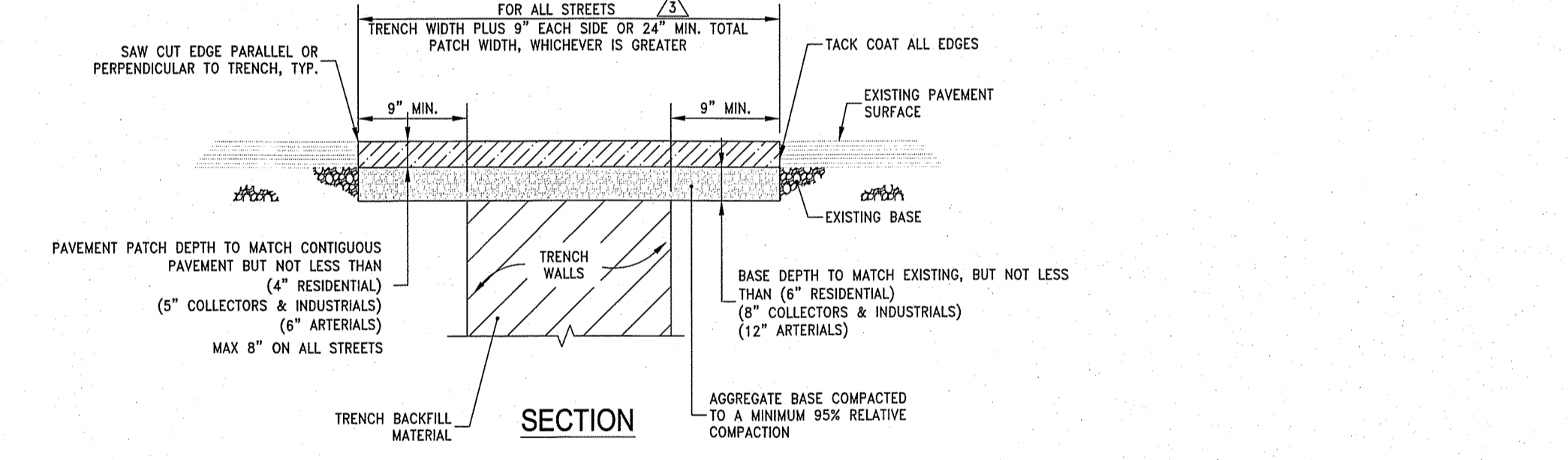
- NOTES:**
- FIBER-REINFORCED PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX. WATER-CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. MIX DESIGN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 337 OF STANDARD SPECIFICATIONS OF PUBLIC WORKS CONSTRUCTION (SSPWC). CEMENT SHALL BE TYPE II. ALL CEMENT CONCRETE SHALL HAVE A COARSE AGGREGATE GRADATION CONFORMING TO SIZE NO. 67. POLYPROPYLENE OR CELLULOSE FIBERS SHALL BE ADDED TO THE P.C.C. AT 1.5 LBS. PER CUBIC YARD. ALL MATERIALS SHALL CONFORM SSPWC.
 - SPECIAL CONDITIONS APPLY TO P.E. GAS VALVES WITH TELESCOPING RISERS. CONTRACTORS SHALL NOT RAISE TO GRADE RISERS THAT HAVE BEEN CUT-OFF DURING LOWERING. RISERS CUT-OFF DURING LOWERING SHALL BE REMOVED COMPLETELY TO MAIN AND TAKEN TO HV ENERGY FOR EXACT MATERIAL REPLACEMENT PRIOR TO RAISING TO GRADE.
 - FOR VALVES LOCATED IN PULVERIZED MATERIAL SHOULDER, THE MINIMUM COLLAR WIDTH SHALL BE 12 INCHES.
 - FOR VALVES LOCATED IN SIDEWALK, A CONSTRUCTION JOINT SHALL BE PLACED A MAXIMUM OF INCHES FROM THE VALVE BOX. VALVE BOX SHALL BE CENTERED WITHIN CONSTRUCTION JOINT.

VALVE BOX COLLAR
N.T.S.

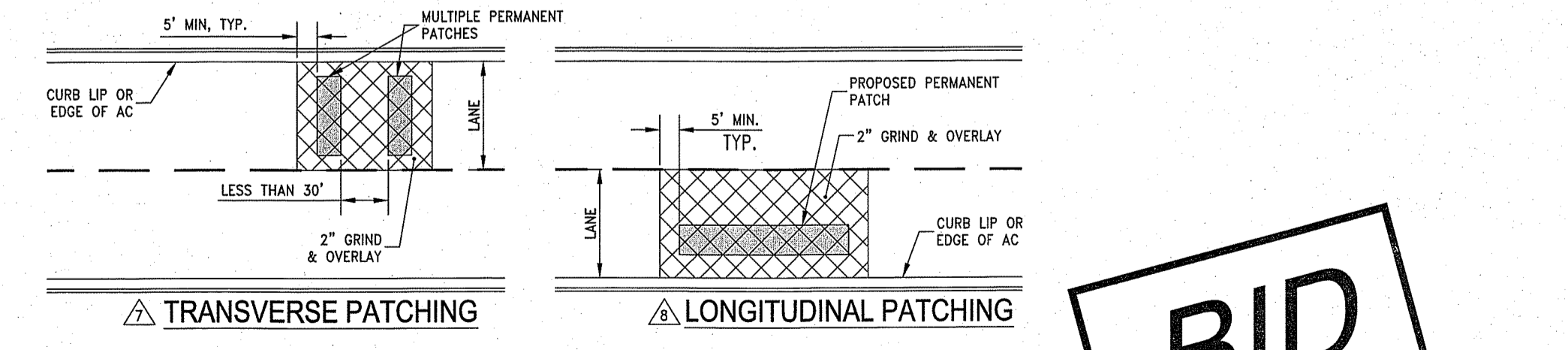


- NOTES:**
- FERROUS METAL OVER MONUMENT FOR RECOVERY BY DIP NEEDLE OR MAGNETIC INSERT IN CAP.
 - 1 1/2" MIN. NONFERROUS CAP WITH PROFESSIONAL LAND SURVEYOR NO. PERMANENTLY ATTACHED PRIOR TO PLACEMENT. PRE-PUNCHED CAPS SHALL NOT BE PERMITTED.
 - 5/8" METALLIC SHAFT (SMOOTH SHAFTS TO BE DEFORMED).
 - FIBER-REINFORCED PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX. WATER-CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. MIX DESIGN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 337 OF STANDARD SPECIFICATIONS OF PUBLIC WORKS CONSTRUCTION (SSPWC). CEMENT SHALL BE TYPE II. ALL CEMENT CONCRETE SHALL HAVE A COARSE AGGREGATE GRADATION CONFORMING TO SIZE NO. 67. POLYPROPYLENE OR CELLULOSE FIBERS SHALL BE ADDED TO THE P.C.C. AT 1.5 LBS. PER CUBIC YARD. ALL MATERIALS SHALL CONFORM TO SSPWC.
 - P.C.C. COLLARS IN ALL ROADWAYS SHALL BE PROTECTED FROM TRAFFIC LOADS UNTIL MINIMUM 3000 PSI IS ATTAINED.

CITY SURVEY MONUMENT
N.T.S. DATE: 1/2013

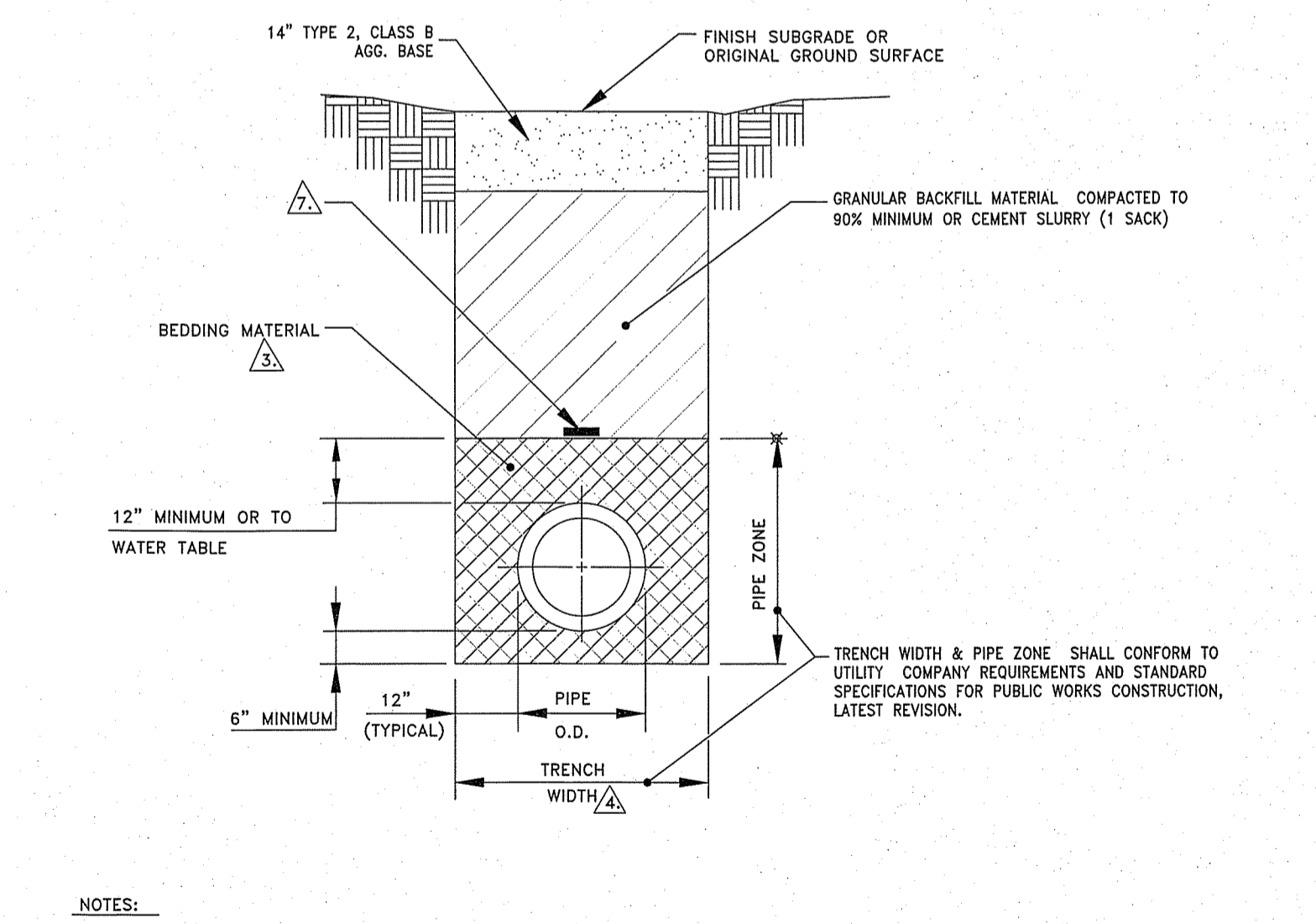


- NOTES:**
- AN EXCAVATION/ENCROACHMENT PERMIT MUST BE OBTAINED FROM CITY OF RENO PRIOR TO CUTTING ANY PUBLIC RIGHT-OF-WAY.
 - IF SAW CUT IS WITHIN 2 FEET OF AN EXISTING PAVEMENT EDGE OR EXISTING PAVEMENT PATCH, REMOVE EXISTING PAVEMENT TO THAT EDGE AND REPLACE ENTIRE SECTION.
 - ALL PERMANENT PATCH REPLACEMENT REQUIREMENTS ARE MINIMUM WIDTHS ONLY AND INCLUDES ALL AREAS WHERE THE ASPHALT PAVEMENT HAS BEEN UNDERMINED. THE CITY ENGINEER MAY REQUIRE WIDER PATCH SECTIONS OR OTHERWISE ALTER THESE REQUIREMENTS.
 - AGGREGATE BASE MATERIAL UNDER BITUMINOUS PAVEMENT PATCH SHALL BE TYPE 2, CLASS B CRUSHED AGGREGATE BASE. MATERIALS SHALL CONFORM TO SSPWC SECTION 200.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF LOOP DETECTORS, ADJUSTMENT OF UTILITIES AND SURVEY MONUMENTS TO GRADE AND INSTALLATION OF PERMANENT PAVEMENT MARKINGS.
 - FOR P.C.C. CURB REPLACEMENT, SAW CUT EXISTING PAVEMENT 18 INCHES MIN. FROM GUTTER LIP LINE, REMOVE AND REPLACE PAVEMENT TO SAW CUT EDGES. CONCRETE MAY BE POURED NEAT AGAINST EXISTING EDGE OF ASPHALT IF APPROVED BY CITY ENGINEER.



- ALL STREETS WITH PAVEMENT CONDITION INDEX (PCI) GREATER THAN 55:
- TRANSVERSE PATCHES SHALL INCLUDE A 2" GRIND AND OVERLAY WHEREVER THERE ARE MULTIPLE PATCHES WITHIN 30 FEET OF EACH OTHER.
 - LONGITUDINAL PATCHES SHALL INCLUDE 2" GRIND AND OVERLAY TO THE LANE LINES (BIKE, PARKING, OR TRAVEL).

TYPICAL PERMANENT PAVEMENT PATCH
N.T.S. DATE: 1/2013



- NOTES:**
- A PERMIT MUST BE OBTAINED FROM THE CITY ENGINEER PRIOR TO CUTTING ANY PUBLIC RIGHT-OF-WAY. 24 HOURS PRIOR TO TRENCH EXCAVATION, THE PERMITTEE MUST NOTIFY THE CITY EXCAVATION PERMIT INSPECTOR OR DESIGN ENGINEER. SEE RELATED STANDARD DETAIL DRAWING NOS. R-103 (141), R-204 (306), R-119 (312), R-120 (305,320) AND R-121 (305,320).
 - ALL MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST REVISION.
 - BEDDING MATERIAL SHALL CONFORM TO OWNING-UTILITY COMPANY REQUIREMENTS AS APPROVED BY THE CITY OF SPARKS. FOR CITY-OWNED UTILITIES, BEDDING MATERIAL SHALL BE CLASS "A", "B", OR "C", COMPACTED TO 90% MINIMUM. FOR TRAFFIC/ELECTRIC CONDUIT TRENCHES, BEDDING SHALL BE CLASS "A" MATERIAL. BACKFILL SHALL BE CEMENT SLURRY (ONE SACK), CEMENT SLURRY BEDDING/BACKFILL MAY BE USED AS AN ALTERNATE TO CLASS "A", "B" OR "C" MATERIAL WITH WRITTEN APPROVAL FROM THE CITY ENGINEER FOR EACH SPECIFIC APPLICATION.
 - ALL EXCAVATIONS SHALL CONFORM TO THE LATEST O.S.H.A. REQUIREMENTS. SHORING OR SLOPED CUT MAY BE NECESSARY, BUT THERE WILL BE NO PAYMENT FOR ADDITIONAL EXCAVATION, BEDDING, BACKFILL, OR SHORING.
 - SEE STANDARD DETAIL DRAWING NOS. R-123A (305), R-123B (305) AND R-123C (305) FOR TRENCH SLURRY BACKFILL SPECIFICATIONS.
 - EDGE OF 4" ROCK WHEEL TRENCHES FOR CONDUIT SHALL BE LOCATED A MINIMUM OF 9" FROM GUTTER LIP.
 - PIPE TAPE IDENTIFICATION OF UTILITY SHALL BE INSTALLED.
 - ALL CROSSING UTILITIES MUST MAINTAIN A MINIMUM OF 1' CLEARANCE.

TRENCH EXCAVATION/BACKFILL
N.T.S.

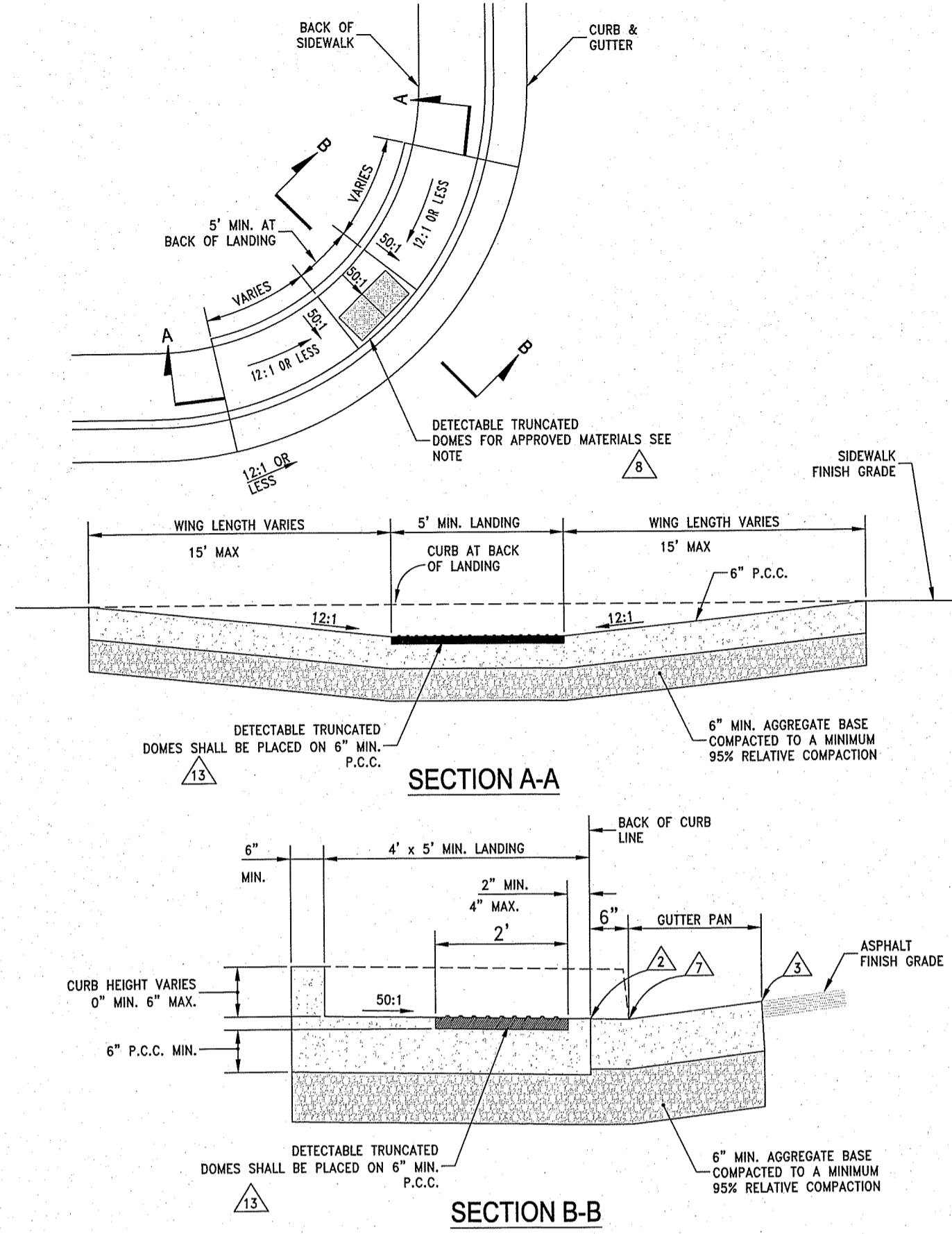
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REV.	DATE	DESCRIPTION	BY	APP'D

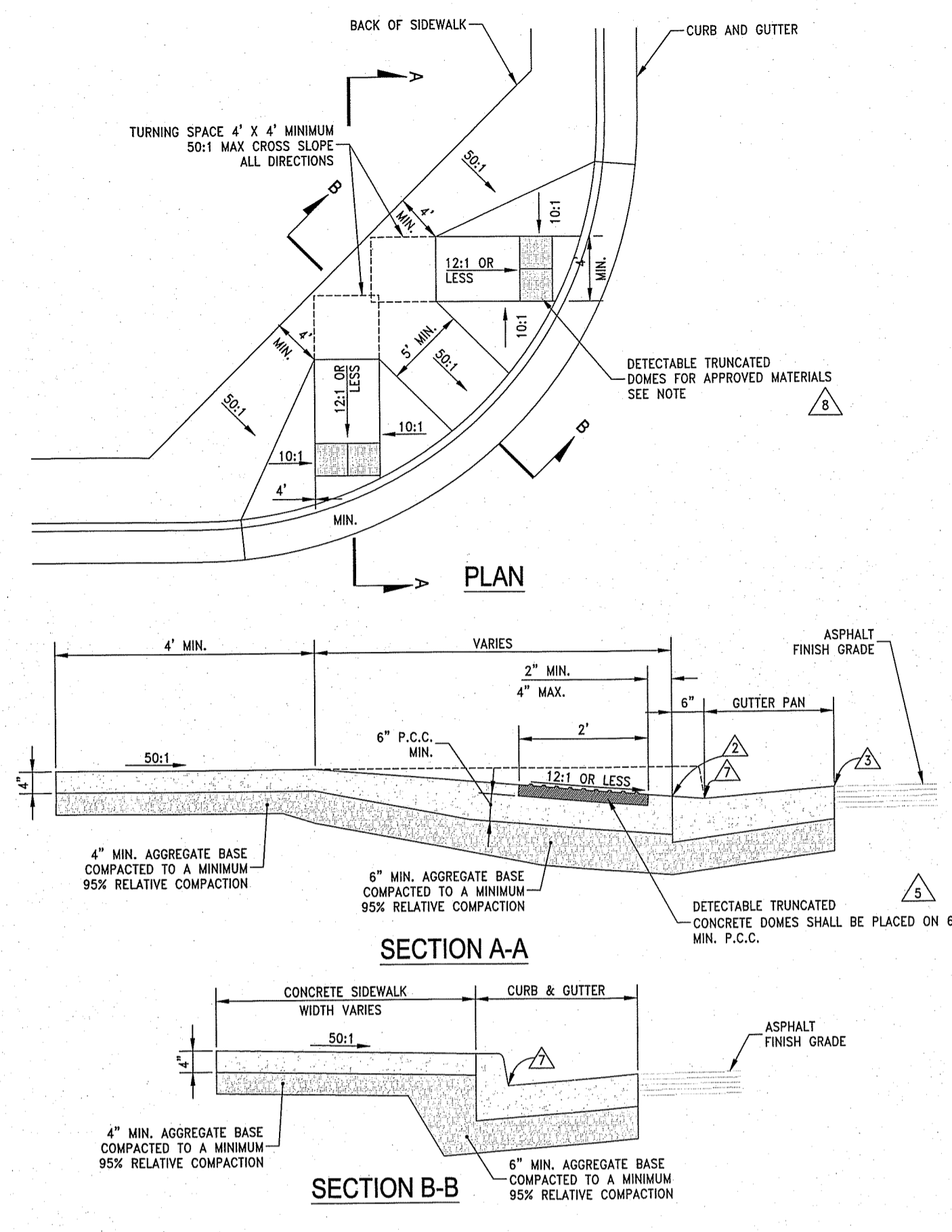
CITY OF SPARKS
MARIAN WAY & 6TH STREET IMPROVEMENT PROJECT-FEDERALLY FUNDED
DETAIL SHEET
SPARKS WASHOE COUNTY NEVADA

DESIGNED BY: EM
CHECKED BY: RP
SCALE
HORIZ: N/A
VERT:
JOB NO: 30058
SHEET OF 18



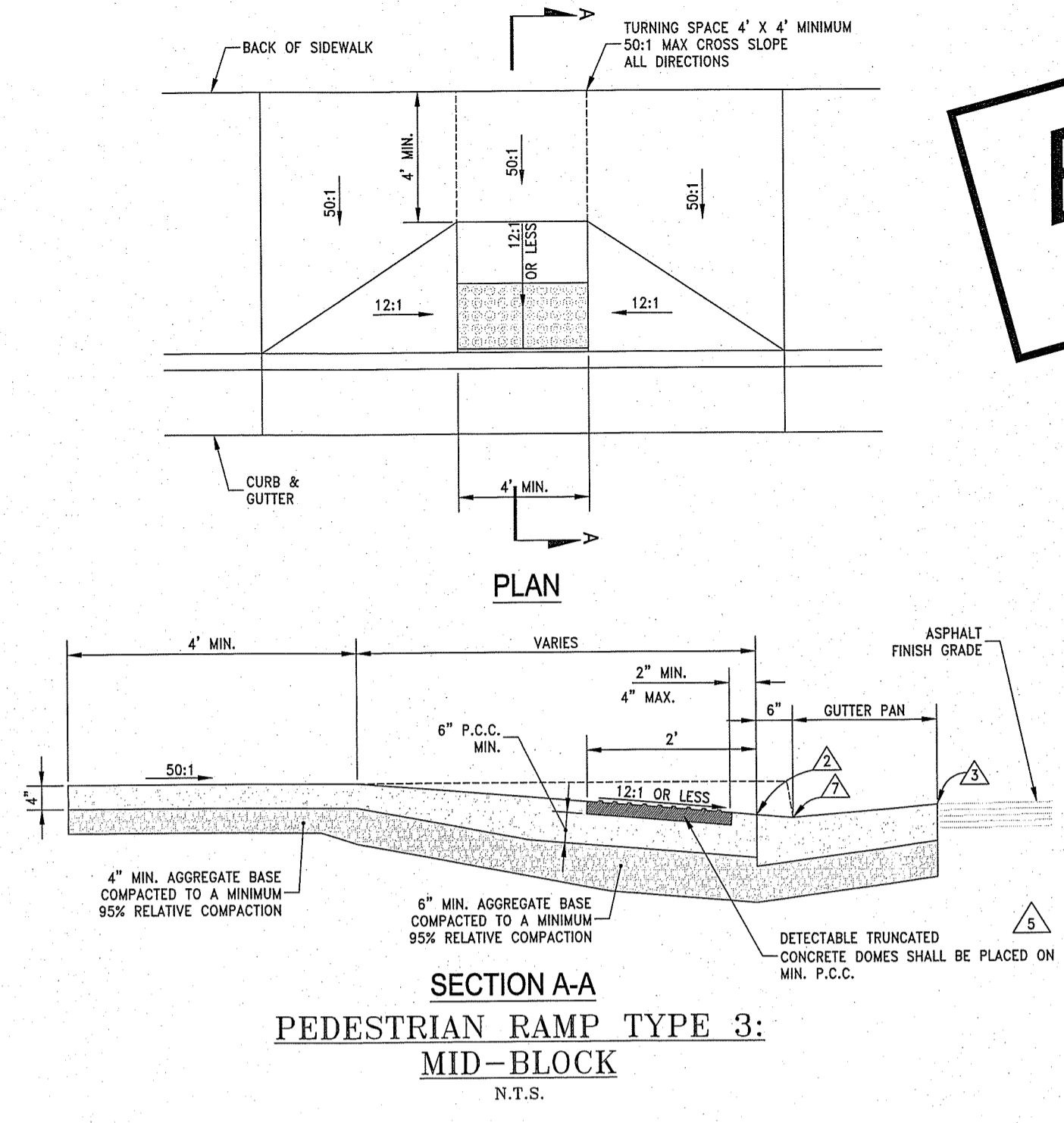
**PEDESTRIAN RAMPS TYPE 1:
EXISTING SIDEWALKS**
N.T.S.

DATE: 1/2013



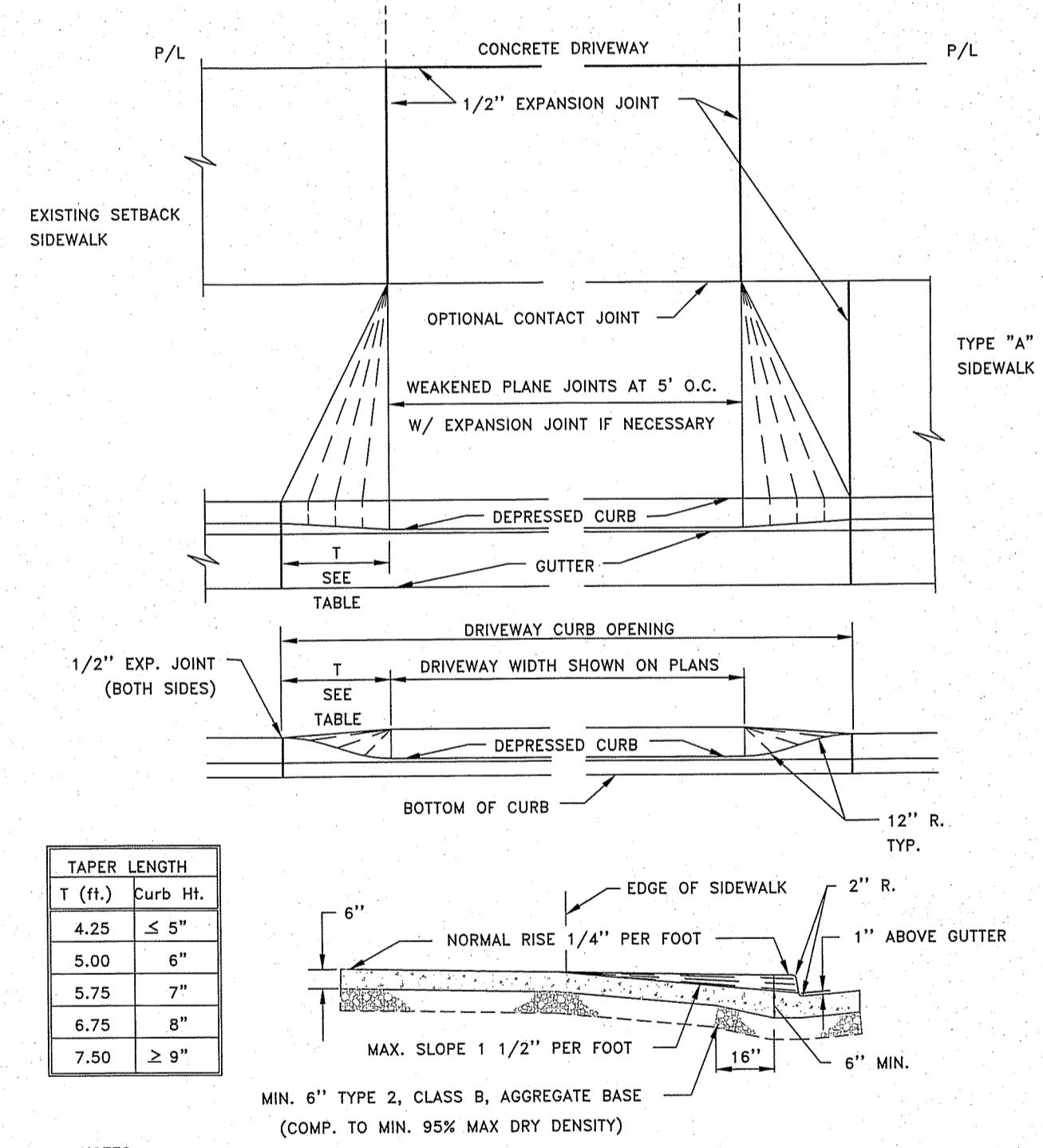
**PEDESTRIAN RAMP TYPE 2:
NARROW AND
OFFSET SIDEWALKS**
N.T.S.

DATE: 1/2013



**PEDESTRIAN RAMP TYPE 3:
MID-BLOCK**
N.T.S.

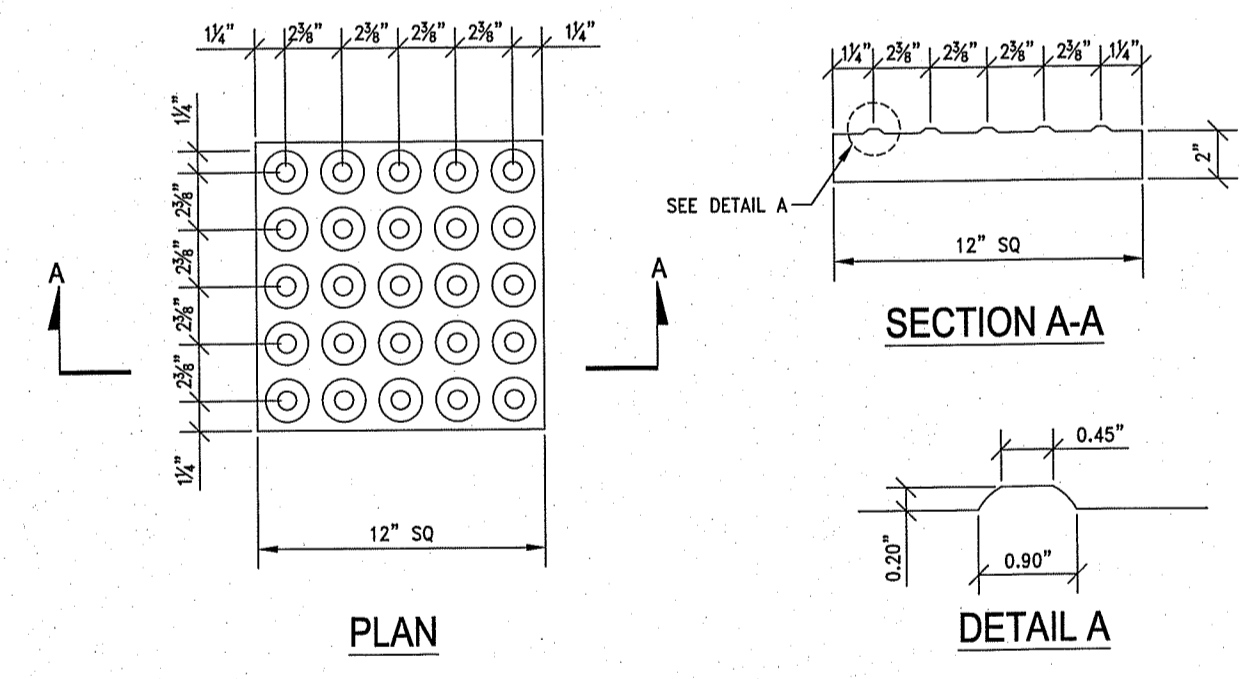
DATE: 1/2013



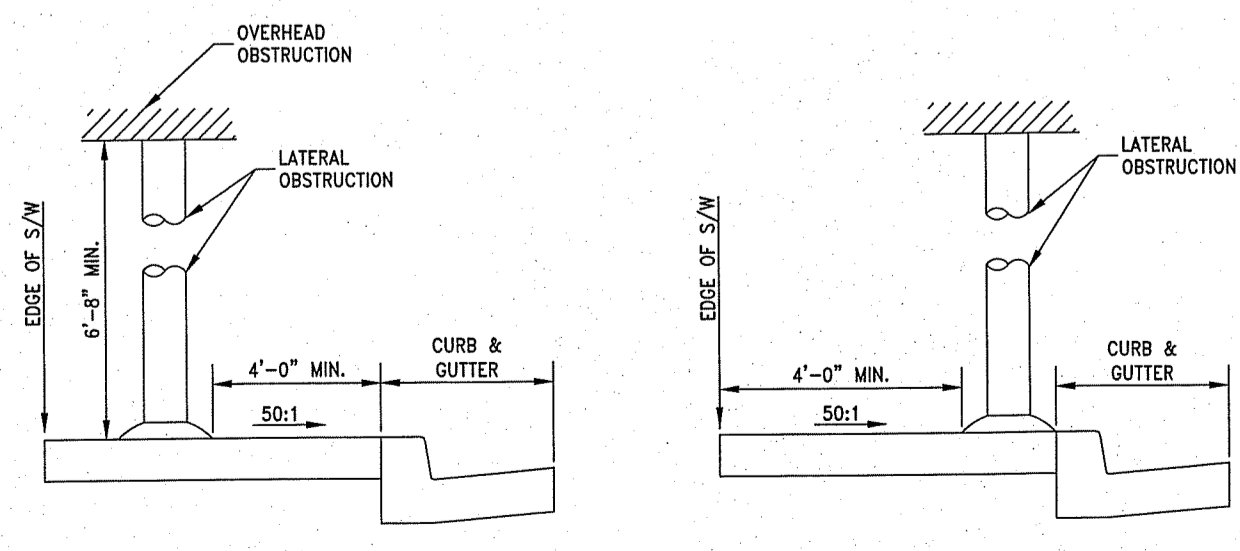
TAPER LENGTH	T (ft.)	Curb Ht.
4.25	≤ 5"	
5.00	6"	
5.75	7"	
6.75	8"	
7.50	≥ 9"	

- NOTES:
- NO CONCRETE SHALL BE PLACED UNTIL FORMS AND SUBGRADE ARE INSPECTED BY THE AGENCY.
 - PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH @ 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH A MAX. WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6.5% ± 1.5%, SLUMP AT 1 TO 4 INCHES. ALL MATERIALS SHALL CONFORM TO SSPWC SECTION 202.
 - COMMERCIAL DRIVEWAYS TO HAVE #4 BARS AT 18" ON CENTER LONGITUDINAL & TRANSVERSE EXTENDING INTO GUTTER PAN. MINIMUM 2" CONCRETE COVER FOR ALL REINFORCING BARS.
 - IF EXPANSION JOINT EXISTS WITHIN 4 FEET OF DRIVEWAY, REMOVE SIDEWALK AND CURB AND GUTTER TO THAT JOINT.
 - CONCRETE REMOVAL SHALL BE TO NEAT SAWCUT LINES.
 - REMOVE CONCRETE WHEN CONSTRUCTING DRIVEWAY WHERE CURB AND GUTTER EXIST.
 - COMMERCIAL DRIVEWAY APRON AND GUTTER PAN MAY BE A MONOLITHIC POUR.

TYPICAL P.C.C. DRIVEWAY APRON
N.T.S.



**TYPICAL TRUNCATED
DOMES DETAIL**
N.T.S.



**TYPICAL SIDEWALK vs
OBSTRUCTION CLEARANCE DETAIL**
N.T.S.

DATE: 1/2013

- STORM DRAIN INLETS OR SIMILAR ACCESSORIES SHALL NOT BE LOCATED IN THE AREA AT THE BASE OF THE CURB RAMP OR LANDING AREA. IF OBSTRUCTIONS SUCH AS INLETS, UTILITY POLES, PULL BOXES, FIRE HYDRANTS, ETC. ARE ENCOUNTERED, THE LOCATION AND DIMENSIONS MAY BE ADJUSTED UPON APPROVAL OF THE ENGINEER.
- NO LIP SHALL BE PERMITTED AT THE CURB RAMP SLOPE TO GUTTER PAN.
- PLANTING BITUMINOUS SURFACE SHALL BE FLUSH WITH THE EDGE OF THE GUTTER PAN IN THE AREA OF THE CURB RAMP.
- ROUGH BROOM TEXTURE ON CURB RAMPS AND WINGS.
- DETECTABLE WARNING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SHALL BE PLACED ON MIN. SIX (6") INCHES OF P.C.C.
- ALL SLOPE RATES ARE RELATIVE TO LEVEL AND SHALL COMPLY WITH THE PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG) STANDARDS, CURRENT VERSION.
- GUTTER SHALL MAINTAIN POSITIVE DRAINAGE TO PREVENT PONDING.
- DETECTABLE WARNING SHALL CONSIST OF PRECAST WETSET TILES WITH MIN. SIZE OF 2' X 2', COLOR DARK RED. APPROVED PRODUCTS INCLUDE: "CASTHATCH", "TERRAZZ DOME-TILES", "ARMOR CAST WET SET TILES", AND "ARCS WET SET TILES". DETECTABLE WARNING SHALL BE CONSTRUCTED PER MANUFACTURER'S INSTALLATION GUIDELINES AND CONFORM TO ADAAG.
- CONCRETE REMOVAL SHALL BE TO NEAT SAW CUT LINES.
- AGGREGATE BASE MATERIAL UNDER PEDESTRIAN RAMPS SHALL BE TYPE 2, CLASS B CRUSHED AGGREGATE BASE. MATERIALS SHALL CONFORM TO SSPWC SECTION 200.
- FIBER-REINFORCED PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX. WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ± 1.5%, SLUMP AT 1 TO 4 INCHES. MIX DESIGN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 337 OF STANDARD SPECIFICATIONS OF PUBLIC WORKS CONSTRUCTION (SSPWC). CEMENT SHALL BE TYPE II. ALL CEMENT CONCRETE SHALL HAVE A COARSE AGGREGATE GRADATION CONFORMING TO SIZE No. 67. POLYPROPYLENE OR CELLULOSE FIBERS SHALL BE ADDED TO THE P.C.C. AT 1.5 LBS. PER CUBIC YARD. ALL MATERIALS SHALL CONFORM TO SSPWC.
- CONTRACTORS SHALL CORRECT ANY GRADE CONFLICT WITH EXISTING BOXES. THE ENGINEER SHALL MAKE THE FINAL DETERMINATION REGARDING THE DEGREE OF MODIFICATIONS REQUIRED BY THE CONTRACTOR FOR GRADE CONFLICTS BETWEEN EXISTING BOXES AND NEW PEDESTRIAN RAMPS.
- SIDEWALK AT BOTH SIDES OF RAMP MAY BE RECONSTRUCTED TO MINIMIZE THE GRADE AT A HORIZONTAL DISTANCE TO BE DETERMINED IN THE FIELD. UPON APPROVAL OF THE ENGINEER, SUBJECT TO PROWAG REQUIREMENTS, CURB AT THE BACK OF WALK MAY BE NEEDED. A TRANSITION SECTION OF SIDEWALK MAY BE NECESSARY TO MATCH CROSS SLOPE OF EXISTING SIDEWALK TO PEDESTRIAN RAMP IMPROVEMENTS. TRANSITION SECTIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- CONTRACTOR SHALL CONSTRUCT ROUNDED CURBS WHERE THEY INTERSECT. RADIUS SHALL BE 1 FT MINIMUM MEASURED FROM FACE OF CURB. CURBS THAT INTERSECT AT A POINT SHALL NOT BE ALLOWED.

PEDESTRIAN RAMP NOTES

DATE: 1/2013

**BID
SET**

SUMMIT ENGINEERING CORPORATION
5405 MAE ANNE AVENUE, RENO, NV, 89523
PHONE: (775) 747-8550 FAX: (775) 747-8559

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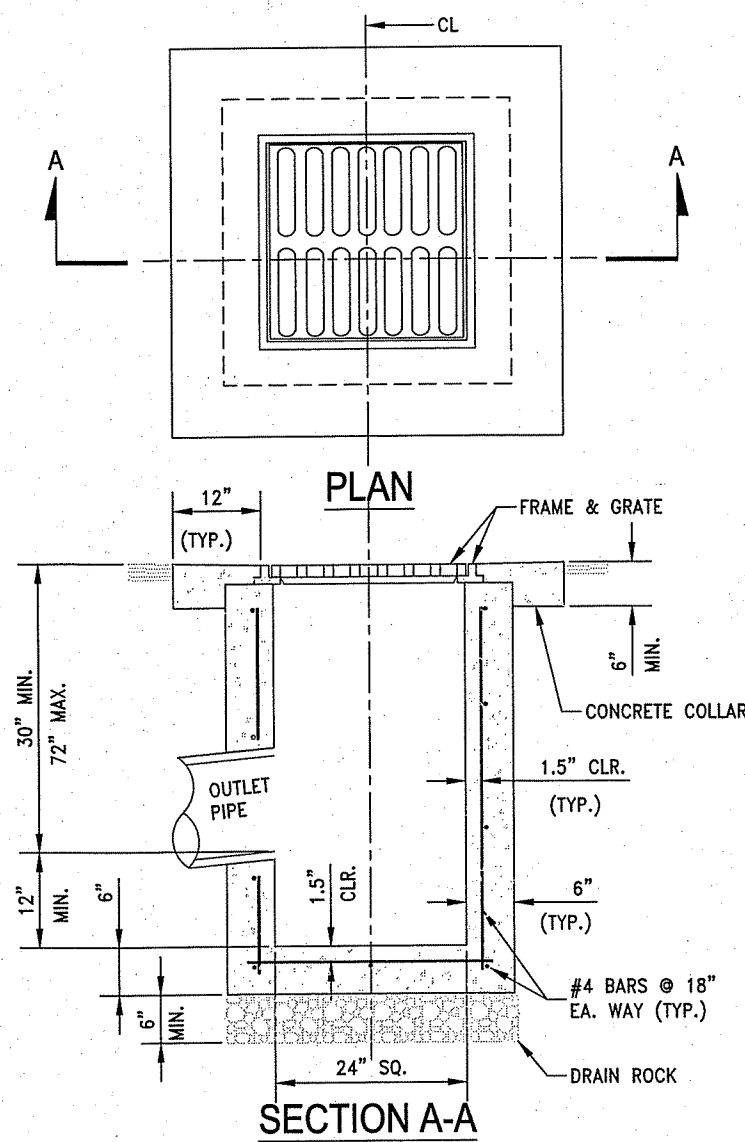
CITY OF SPARKS
MARIAN WAY & 6TH STREET IMPROVEMENT PROJECT-FEDERALLY FUNDED
DETAIL SHEET
WASHOE COUNTY
SPARKS
NEVADA

DESIGNED BY: EM
CHECKED BY: RP
SCALE
HORIZ: N/A
VERT: N/A
JOB NO: 30058

RICHARD PETTINARI
PROFESSIONAL ENGINEER - STATE OF NEVADA
Exp. 12-31-25
CIVIL
2-23-15

SHEET OF 18
C3.2

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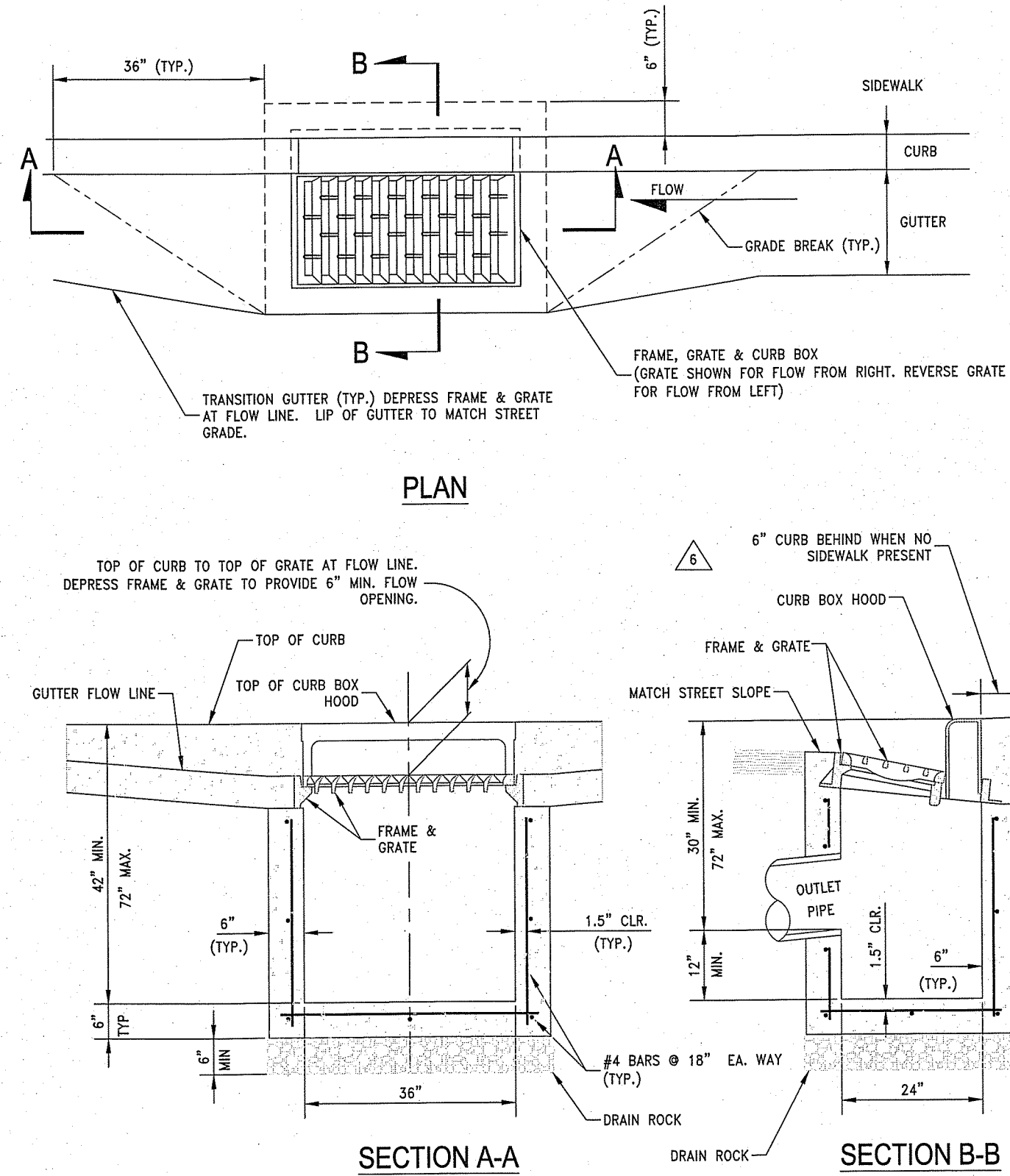
NOTES:

1. FIBER-REINFORCED PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX. WATER-CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. MIX DESIGN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 337 OF STANDARD SPECIFICATIONS OF PUBLIC WORKS CONSTRUCTION (SSPWC). CEMENT SHALL BE TYPE II. ALL CEMENT CONCRETE SHALL HAVE A COARSE AGGREGATE GRADATION CONFORMING TO SIZE No. 67. POLYPROPYLENE OR CELLULOSE FIBERS SHALL BE ADDED TO THE P.C.C. AT 1.5 LBS. PER CUBIC YARD. ALL MATERIALS SHALL CONFORM TO SSPWC.
2. REINFORCING STEEL SHALL BE GRADE 40 AND HAVE 1.5" CLEAR COVER.
3. CONCRETE STRUCTURE MAY BE A PRE-CAST CONCRETE UNIT. BASE OF PRE-CAST CONCRETE UNIT SHALL BE PLACED ON 6" COMPACTED DRAIN ROCK.
4. FRAME & GRATE SHALL BE D&L I-9226 OR APPROVED EQUAL.
5. CATCH BASIN SHALL BE TRAFFIC-RATED AND USED ONLY AT LOW POINTS IN ALLEYS OR PARKING AREAS.
6. ALL CATCH BASINS, PUBLIC OR PRIVATE, SHALL BE PROVIDED WITH A "SUR-TRAP" OIL/WATER SEPARATOR OR APPROVED EQUAL.

TYPE 3R CATCH BASIN
N.T.S.

DATE: 1/2013

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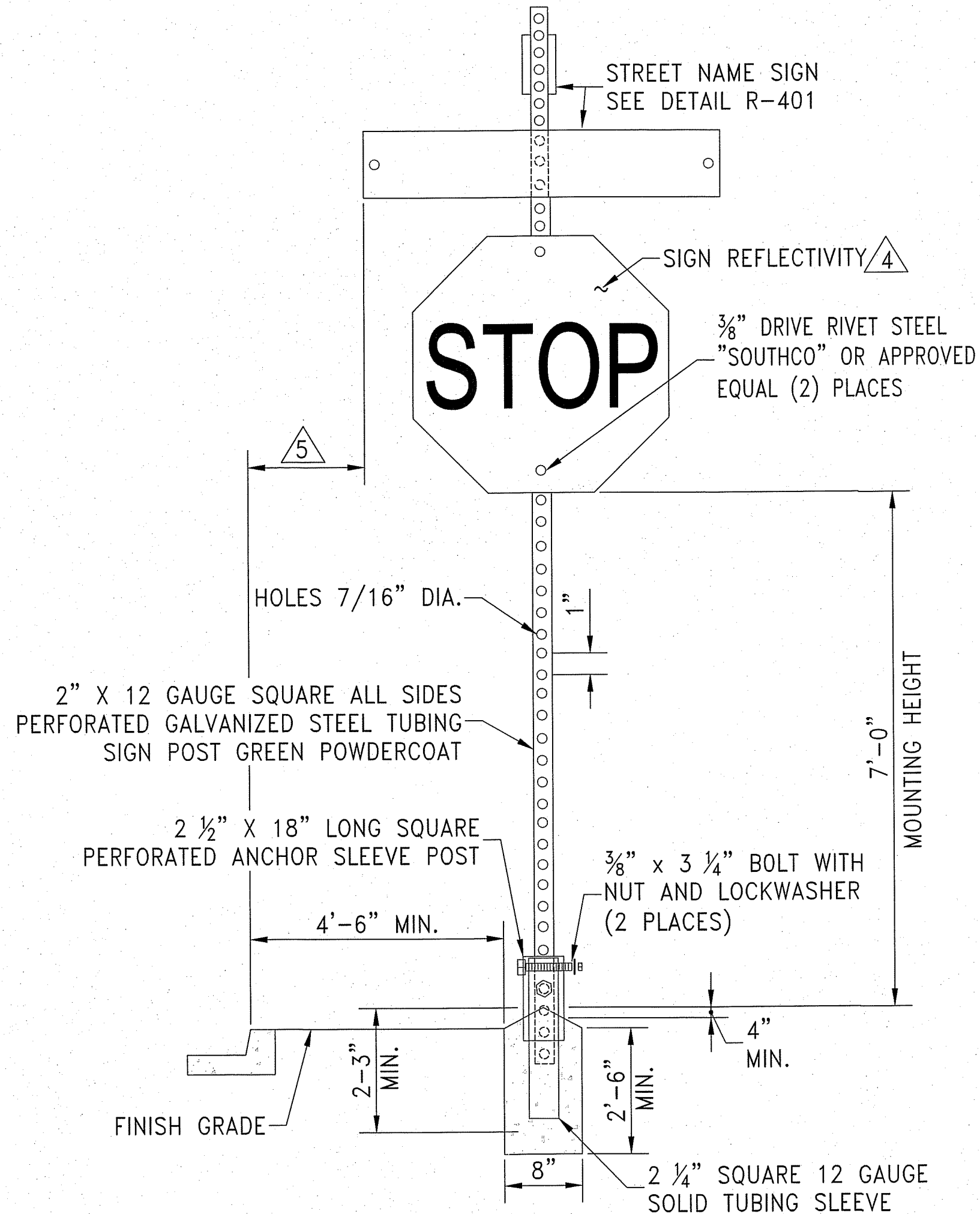


NOTES:

1. P.C.C. CURB AND GUTTER TRANSITION SHALL BE FIBER-REINFORCED PORTLAND CEMENT CONCRETE (P.C.C.) AND SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX. WATER-CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. MIX DESIGN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 337 OF STANDARD SPECIFICATIONS OF PUBLIC WORKS CONSTRUCTION (SSPWC). CEMENT SHALL BE TYPE II. ALL CEMENT CONCRETE SHALL HAVE A COARSE AGGREGATE GRADATION CONFORMING TO SIZE No. 67. POLYPROPYLENE OR CELLULOSE FIBERS SHALL BE ADDED TO THE P.C.C. AT 1.5 LBS. PER CUBIC YARD. ALL MATERIALS SHALL CONFORM TO SSPWC.
2. REINFORCING STEEL SHALL BE GRADE 40 AND HAVE 1.5" MINIMUM CLEAR COVER.
3. CONCRETE STRUCTURE MAY BE A PRE-CAST CONCRETE UNIT UPON APPROVAL OF THE CITY ENGINEER. BASE OF PRE-CAST CONCRETE UNIT SHALL BE PLACED ON 6" COMPACTED DRAIN ROCK.
4. FRAME, GRATE AND CURB BOX HOOD ASSEMBLY SHALL BE D&L I-3519 WITH TYPE L "VANE GRATE" OR APPROVED EQUAL. GRATE SHALL BE INSTALLED WITH PROPER FLOW DIRECTION. EACH CATCH BASIN SHALL BE CAST WITH A FISH IMAGE AND THE WORDS "NO DUMPING DRAINS TO WATERWAYS" IN THE TOP OF EACH CURB HOOD.
5. TILT FRAME & GRATE AS REQUIRED TO ATTAIN 6" MIN. FLOW OPENING & INSTALL DURABLE SHIMS BETWEEN THE CURB BOX & FRAME AS REQUIRED TO MATCH CURB BOX TO TOP OF CURB AND FACE OF CURB (SEE SECTION B-B).
6. WHEN SIDEWALK IS PRESENT CONCRETE BEHIND CURB BOX SHALL BE THICKENED TO THE FULL DEPTH OF THE CURB BOX. IF NO SIDEWALK IS PRESENT, POUR 6" CONCRETE CURB STRUCTURE BEHIND GRATE AND THE BEAM INTO BOX.
7. ALL CATCH BASINS, PUBLIC OR PRIVATE, SHALL BE PROVIDED WITH A "SUR-TRAP" OIL/WATER SEPARATOR OR APPROVED EQUAL.
8. FRAMES AND GRATES SHALL BE MATCHED TO ACHIEVE A CLOSE TOLERANCE FIT WITH MINIMAL GAPS.
9. CATCH BASIN SHALL NOT BE PLACED WITHIN THE RADIUS OF THE CURB.

TYPE 4R CATCH BASIN
N.T.S.

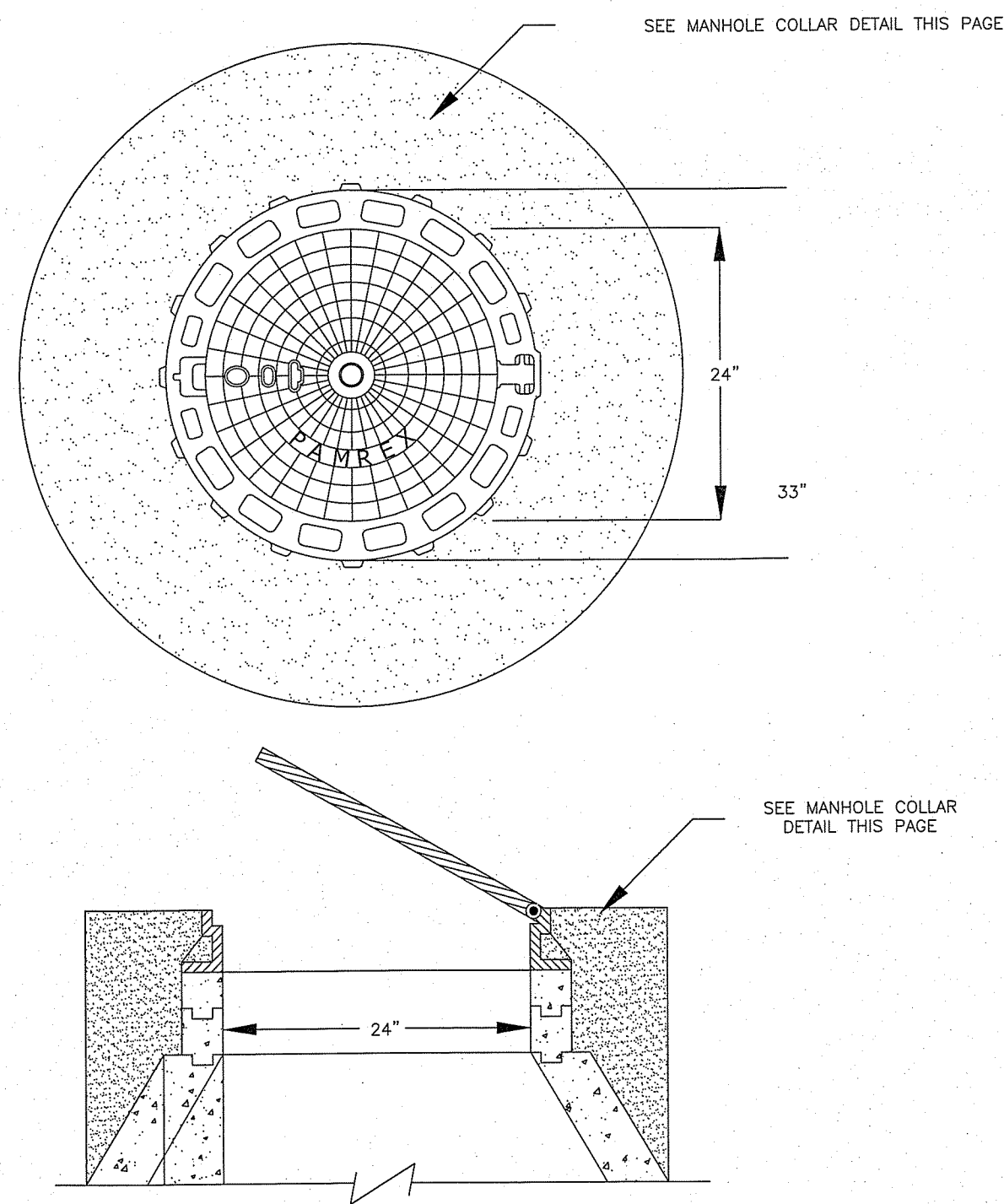
DATE: 1/2013



NOTES:

1. SIGN MATERIALS, CONSTRUCTION AND PLACEMENT SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. ON STREETS WHERE CURBING DOES NOT EXIST, SET SIGN 6' MINIMUM FROM PAVEMENT EDGE.
3. CONCRETE BASE SHALL BE LOCATED AT BACK OF SIDEWALK, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.
4. ALL REGULATORY SIGNS SHALL BE 3M DIAMOND GRADE (DG3) WITH A 3M CLEAR TRANSPARENT OVERLAY #1170 OR APPROVED EQUAL.
5. 2 FOOT MINIMUM FROM EDGE OF SIGN TO FACE OF CURB IN RESIDENTIAL, COMMERCIAL OR BUSINESS AREAS.

R1-1 SIGN AND POST
N.T.S.

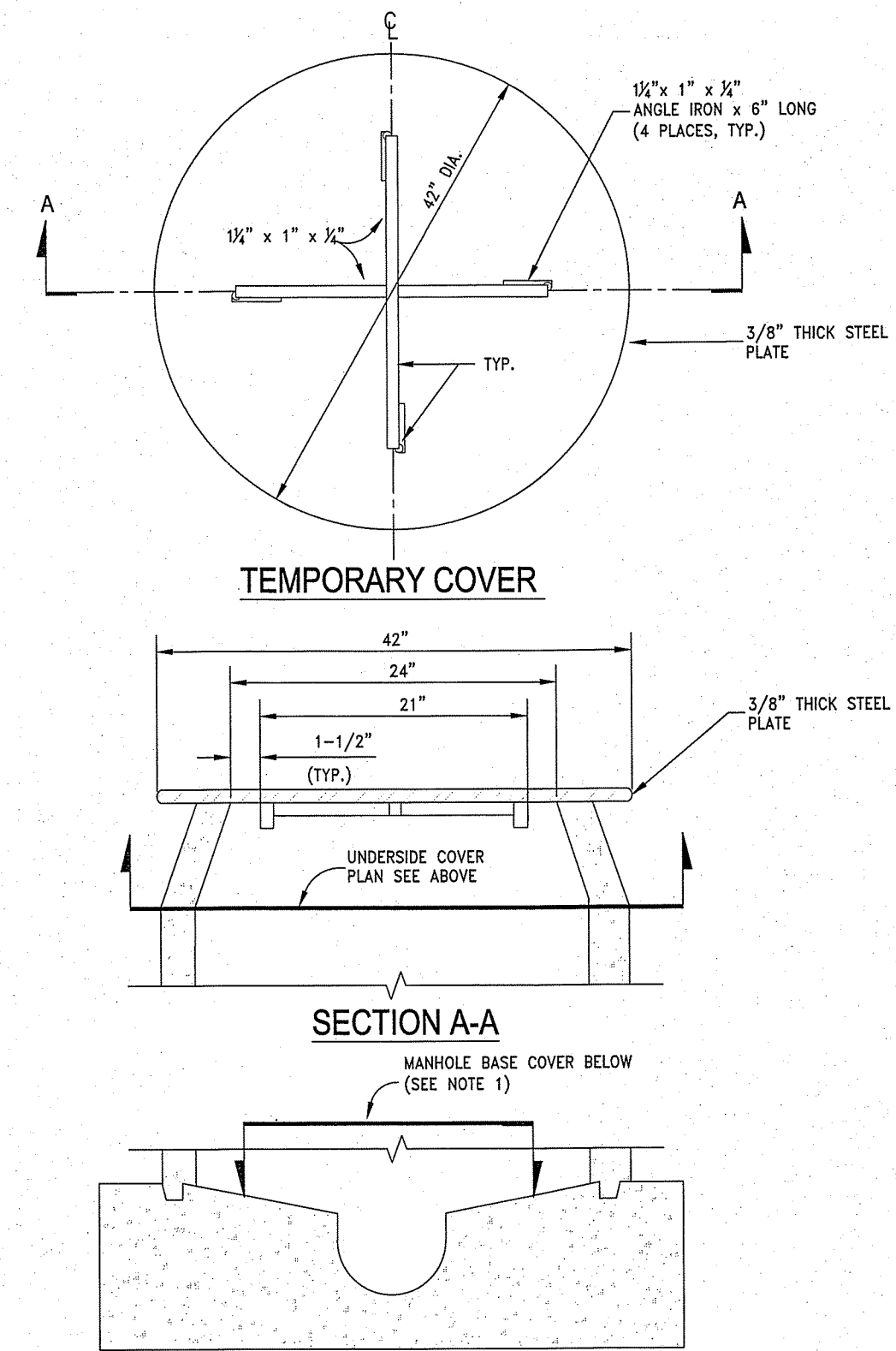


NOTES:

1. HINGED MANHOLE COVER SHALL BE PAMREX 24-INCH MODEL OR APPROVED EQUAL.
2. COVER TO BE HINGED AND INCORPORATE A 90 DEGREE BLOCKING SYSTEM TO PREVENT ACCIDENTAL CLOSURE.
3. FRAME AND COVER SHALL BE ELASTOMER GASKETED.
4. ALL COMPONENTS SHALL BE BLACK COATED.

SPARKS MANHOLE FRAME AND COVER
N.T.S.

DATE: 1/2013

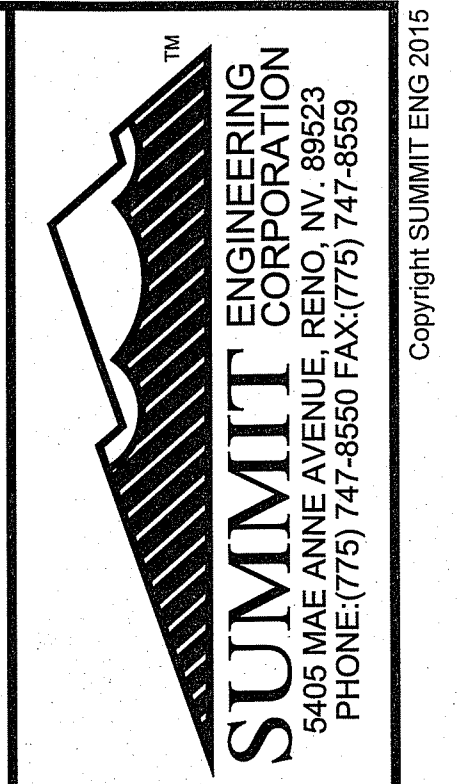


NOTES:

1. INSTALL TEMPORARY COVER WITH CONE INSTALLATION WHEN INSTALLING NEW MANHOLE OR PRIOR TO REMOVING EXISTING FRAME & COVER AND GRADE RINGS TO ADJUST TO FINISH GRADE. INSTALL COVER OVER MANHOLE BASE TO PREVENT DEBRIS FROM ENTERING SEWER SYSTEM. THE MANHOLE BASE COVER SHALL BE IN PLACE PRIOR TO PERFORMING ANY ADJUSTMENTS OR GROUTING AND SHALL REMAIN IN PLACE WHILE ADJUSTMENTS OR GROUTING ARE BEING PERFORMED. REMOVE BASE COVER UPON ADJUSTMENT APPROVAL BY CITY OF RENO.

TEMPORARY MANHOLE COVER
N.T.S.

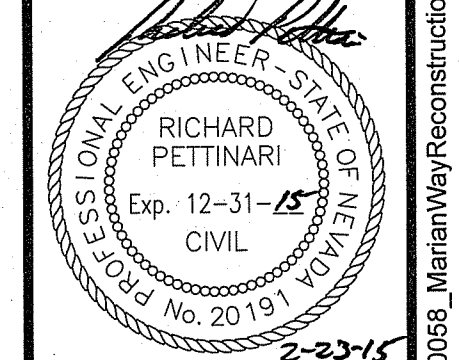
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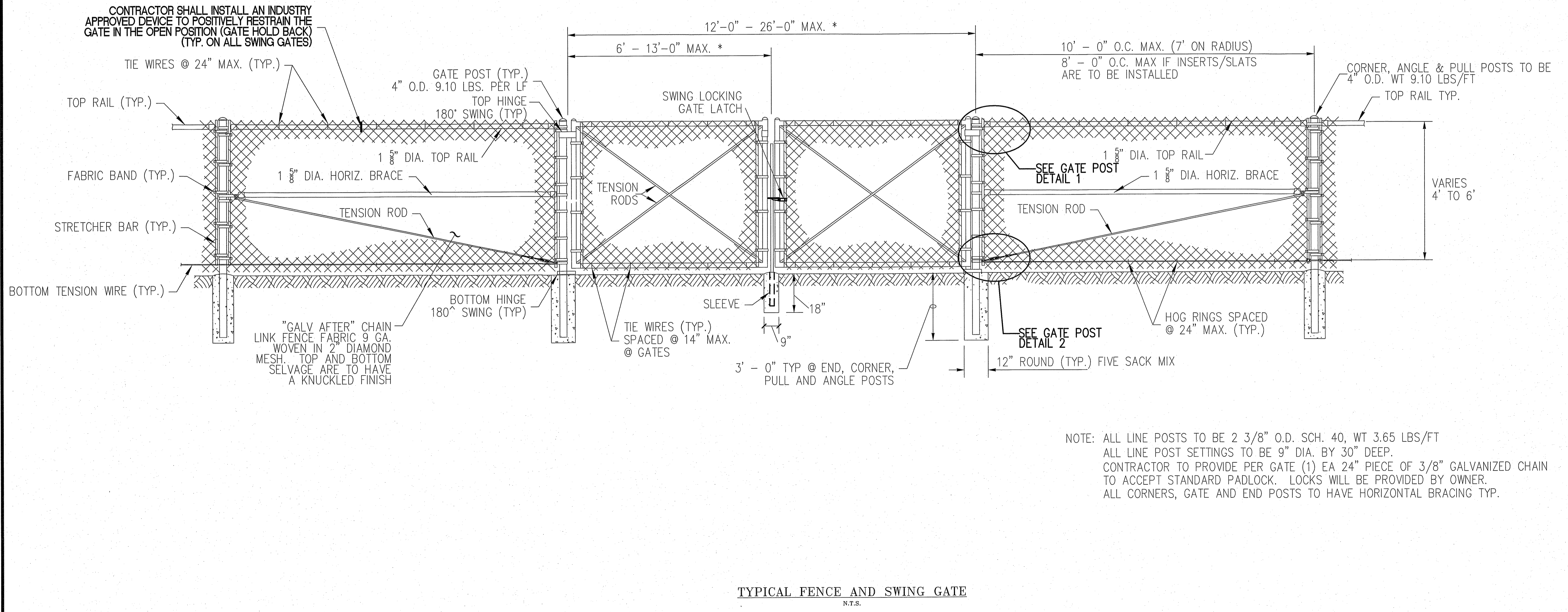
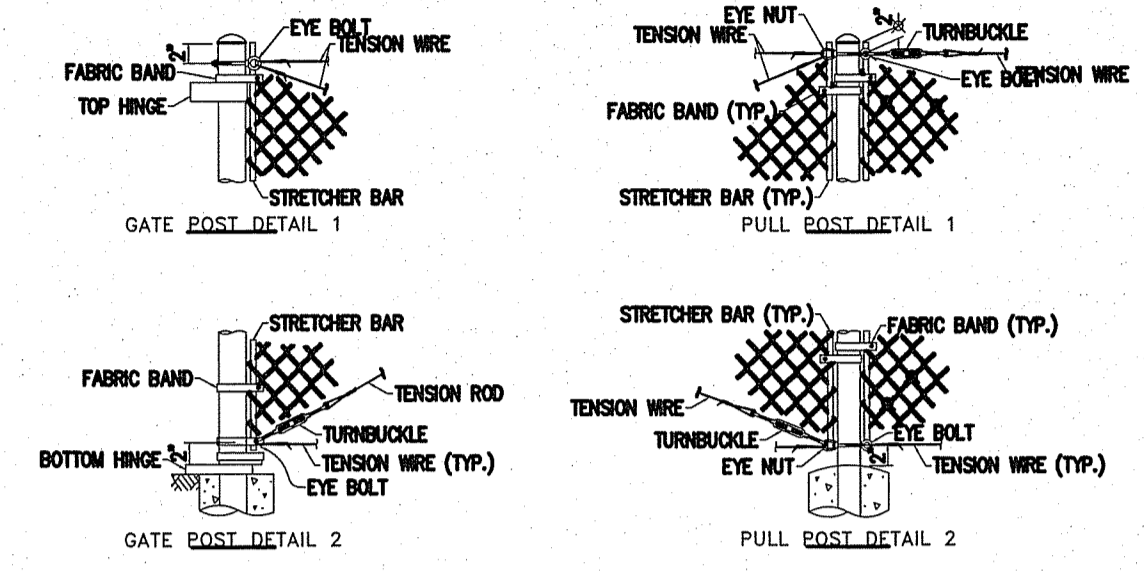
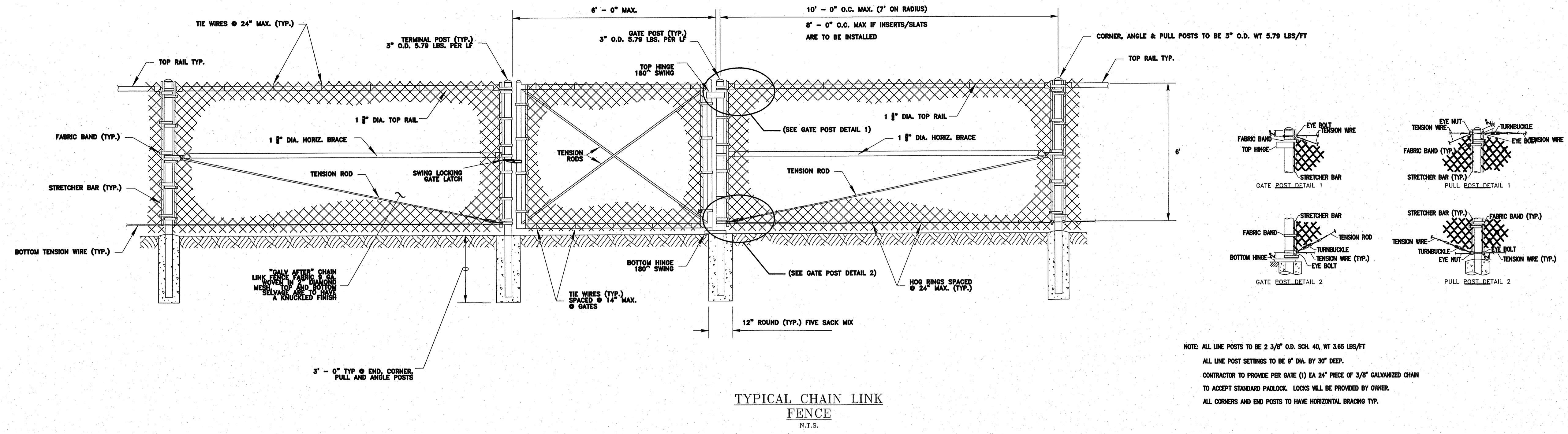
REV.	DATE	DESCRIPTION	BY	APPD

CITY OF SPARKS
MARIAN WAY & 6TH STREET IMPROVEMENT PROJECT-FEDERALLY FUNDED
DETAIL SHEET
SPARKS WASHOE COUNTY NEVADA

DESIGNED BY: EM
CHECKED BY: RP
SCALE
HORIZ: N/A
VERT: N/A
JOB NO: 30058



SHEET C3.3 OF 18



REV.	DATE	DESCRIPTION	BY	APP'D

CITY OF SPARKS
 MARIAN WAY & 6TH STREET IMPROVEMENT PROJECT-FEDERALLY FUNDED
DETAIL SHEET
 SPARKS WASHOE COUNTY NEVADA

DESIGNED BY: EM
 CHECKED BY: RP
 SCALE
 HORIZ: N/A
 VERT: N/A
 JOB NO: 30058
 PROFESSIONAL ENGINEER - STATE OF NEVADA
 RICHARD PETTINARI
 Exp. 12-31-25
 CIVIL
 No. 20191
 2-23-15

Date: 3/11/10, Rev. E

52.0 SPECIFICATIONS FORM

52.1 HEIGHT:

Fence is to stand four (4) or six (6) feet high (as specified per job) above ground when erected.

52.2 FABRIC:

"Galv-After" chain link, heavily zinc coated (hot galvanized) by hot-dip process AFTER weaving, no. 6 gauge chain or no. 9 gauge chain (as specified per job) woven in a 2" chain link diamond mesh. The top and bottom selvage are to have a knuckled finish.

52.3 TENSILE STRENGTH:

Wire pickets of which fabric is made is to withstand a tensile strength of 90,000 pounds per square inch based on the cross sectional area of the galvanized wire.

52.4 GALVANIZING TEST:

Wire fabric to withstand six (6) one-minute immersions under the Preece Cooper Sphate Method of testing for uniformity and weight of coating. Test to be made on a section of wire picket at least 4" in length to include at least one (1) bend and at least one (1) straight side of the formed link in the test.

52.5 LINE POSTS - HOT-DIP GALVANIZED:

2 - 3/8" O.D., Sch. 40, weight 3.65 lbs. per foot. Line posts spaced on maximum 10' centers - 7' on radius.

52.6 TERMINAL POSTS:

- Six (6) foot end; Corner, angle and pull posts to be 3" O.D., weight 5.79lbs per foot
Four (4) foot end; Corner, angle and pull posts to be 2" inches O.D., weight 3.65 lbs. per foot

52.7 GATE POSTS:

- 3" O.D., weight 5.79 lbs. per linear foot to be used for single swing gates up to and including six (6) foot opening and for double swing gates up to and including twelve (12) foot opening

52.8 SWING GATE POSTS:

4" O.D., weight 9.10 lbs. per linear foot to be used for single swing gates wider than six (6) foot and up to and including thirteen (13) foot opening and for double swing gates wider than twelve (12) foot opening and up to and including twenty-six (26) foot opening.

6-5/8" O.D., weight 18.97 lbs. per linear ft. to be used for single swing gates wider than 13 ft. and up to and including 18 ft. openings; also, for double gates wider than 26 ft. opening and up to and including 36 ft. opening.

8-5/8" O.D., weight 24.7 lbs. per lineal ft. to be used for single swing gates wider than 18ft. and for all double swing gates wider than 36ft. opening.

52.9 ROLLING GATE POSTS:

3" O.D., weight 5.79lbs. per lineal foot to be used for slide gates up to 26' opening.

52.10 USED LIGHT WALL, RE-ROLLED, REGALVANIZED OR OPEN BEAM POST OR RAIL:

Not Acceptable. All pipe to be full weight.

52.11 POST SETTINGS:

Line post to be set 9" Diameter 30" Depth. End corner, angle, or pull posts to be set 12" Diameter 36" Depth. Gate Posts to be set 12" Diameter 36" Depth. Solid rock to be cored and grouted 2-1/2" Diameter 8" Depth.

52.12 TOPS:

All line posts to have loop caps to carry top rail or tension wire. All terminal posts to have dome caps. All bases to fit over posts.

52.13 TOP RAIL:

Hot-Dip Galvanized. Tubular 1-5/8" O.D., weight 2.27 lbs. per lineal ft. To be provided with couplings approximately every 20 ft. Top rail is to pass through loop of post tops and form a continuous brace from end to end to each stretch of fence. Top rail to be securely fastened to end. Gate and corner posts to be by means of suitable steel connections.

52.14 BRACES:

Hot-Dip Galvanized. Horizontal braces to be furnished only for end, gate and corner posts when fence is 6' and higher in height. Made of 1-5/8" tubular, weight 2.27 lbs. per lineal ft. Braces are omitted on 4" fences. Braces are to be spaced midway between top rail and ground and extended to the first line post Braces securely fastened to posts by means of steel connections, then trussed from line post back to end, gate or corner post, with 3/8" round rod.

52.15 TENSION WIRE:

To be No. 7 gauge coil spring galvanized, installed at fabric base and fastened to terminal post with bands and tighteners, hog ringed to fabric every 24". If top rail omitted, tension wire to be installed same as above and to be fed through base of loop cap.

52.0 SPECIFICATIONS FORM (CONTINUED)

52.16 FITTINGS:

Hot-Dip Galvanized. All fittings used to be malleable, case iron or pressed steel, aluminum.

52.17 FABRIC TIES:

Fasten the fabric to line posts with galvanized steel wire ties spaced approximately 14" apart. Attach fabric to top rail and braces with wire ties spaced approximately 24" apart.

52.18 GATES:

Frames made of 2" O.D., Hot-dip galvanized steel tubular, weight 2.72 lbs. per lineal ft. Fabric same as in fence. Complete with heavy industrial hinges, catch, stops and center rest. Cross members, 3/8" round rod with take-up.

52.19 FINISH:

All materials entering into the construction of this fence heavily hot-galvanized.

52.20 ERECTING:

Contractor to erect fence complete in every respect as per specifications, setting all posts in concrete, furnishing all labor, concrete materials and equipment.

52.21 CONCRETE:

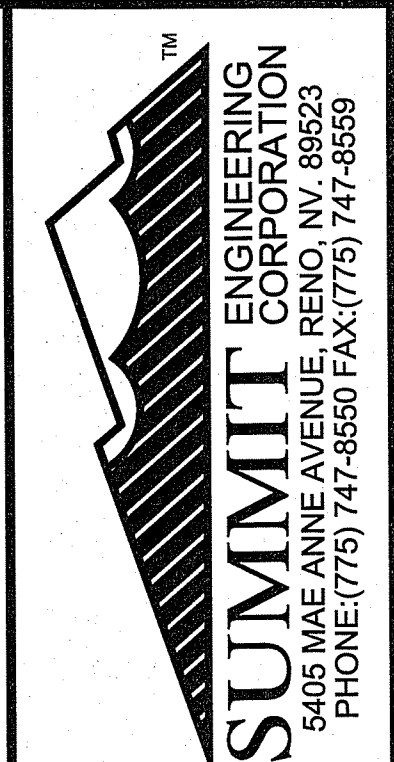
Five (5) sack mix.

52.22 LAYOUT:

All property line stakes and grade stakes are to be established by owner. All underground lines to be marked. Fence to follow ground line unless otherwise provided for in inspection.

52.23 OBSTRUCTIONS:

Obstructions of every nature, which in any manner interfere with erection of fence, will be removed by owner prior to commencing erection work on fence.

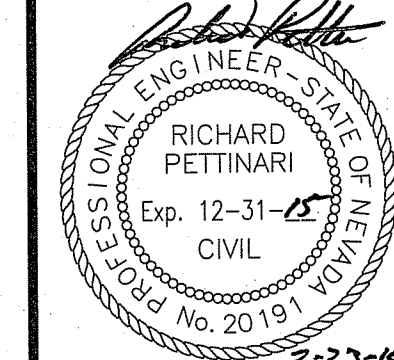


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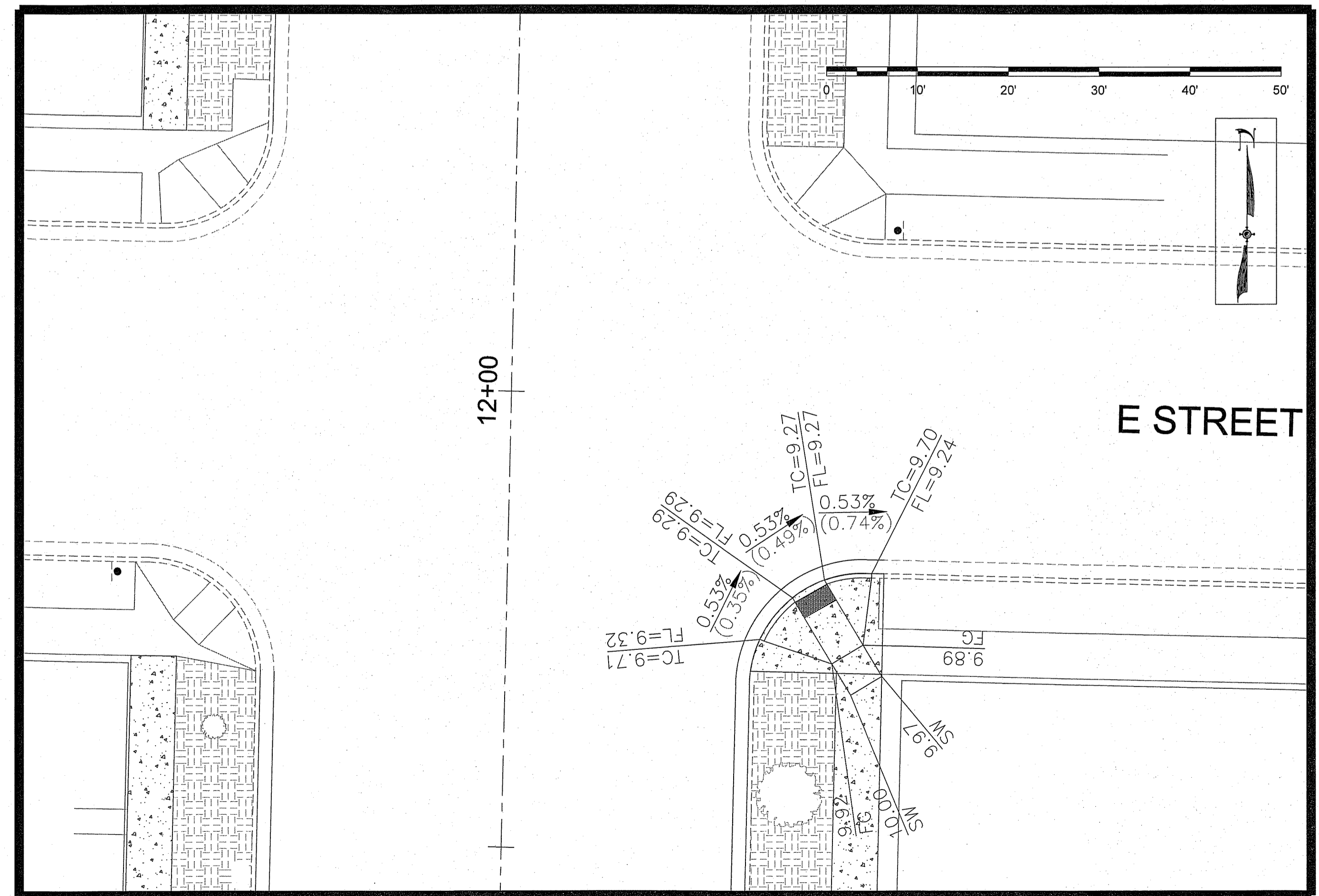
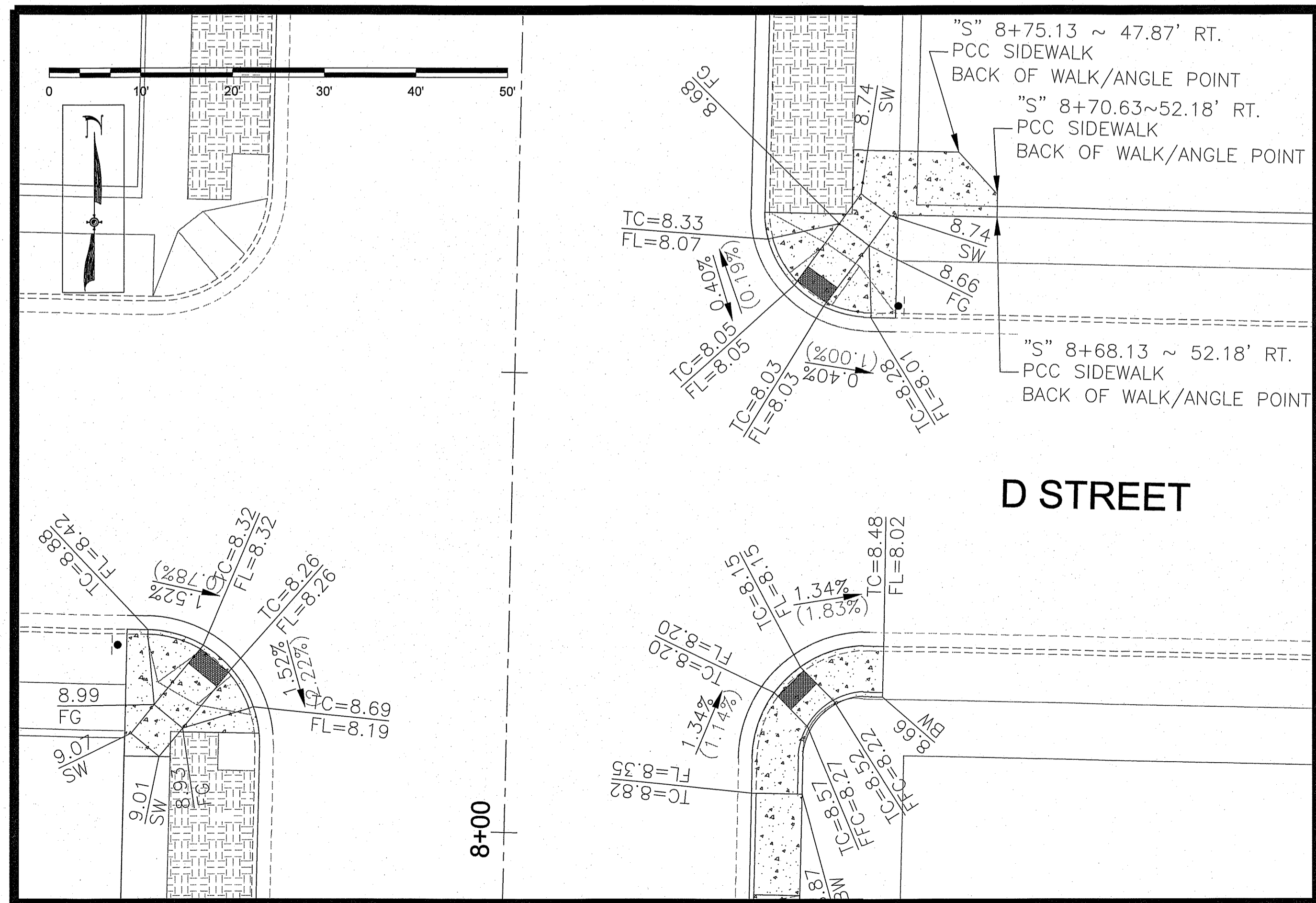
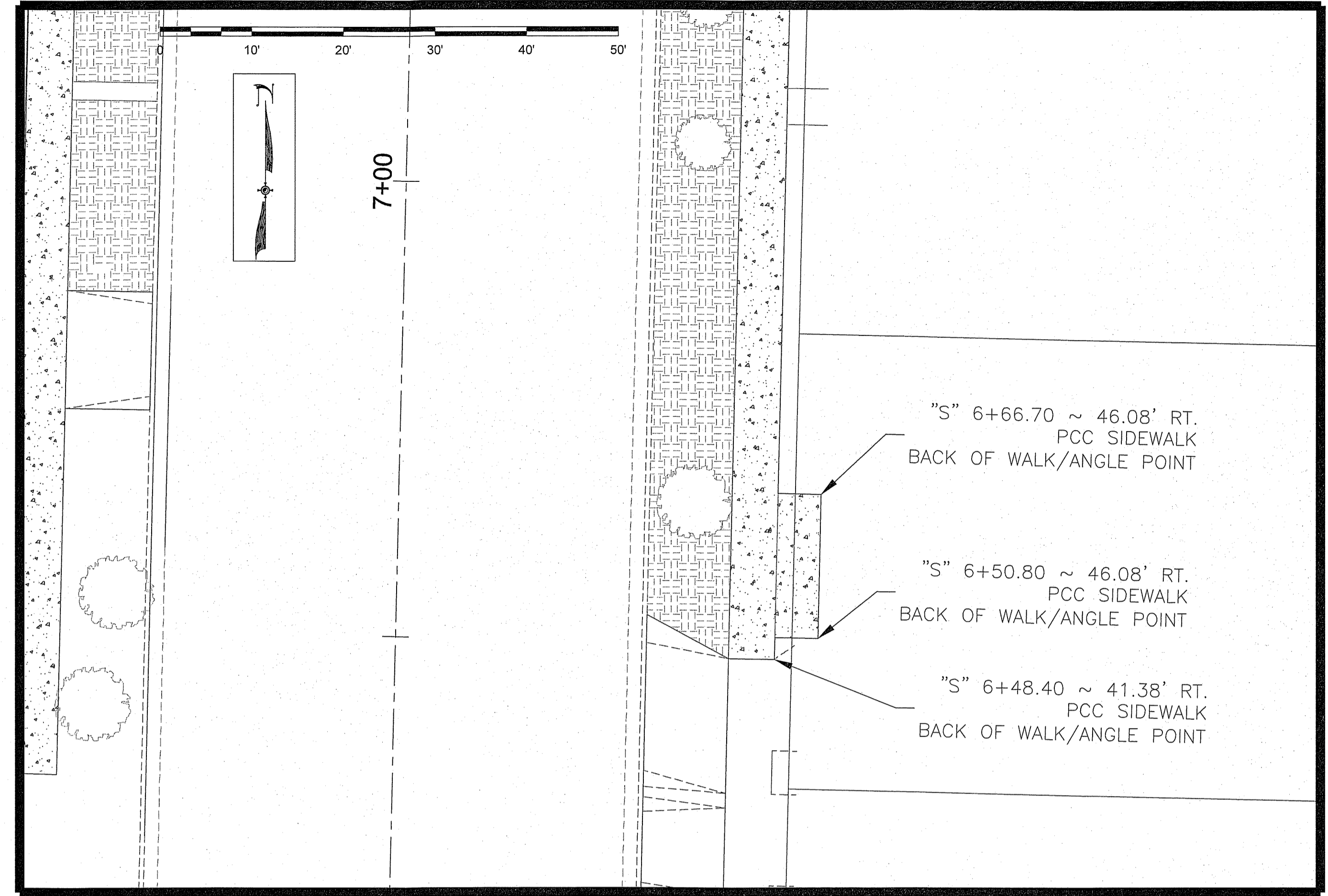
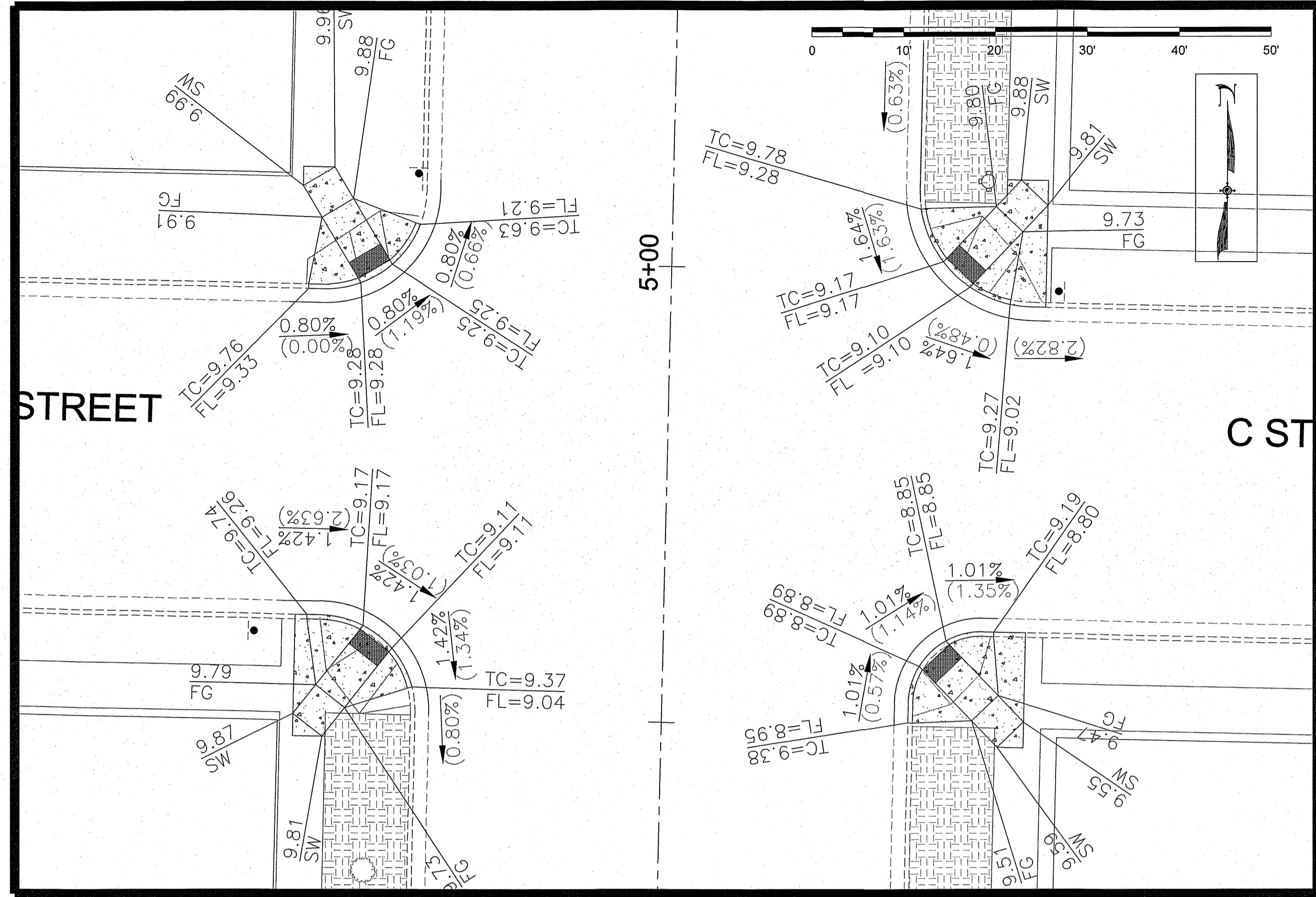
CITY OF SPARKS
MARIAN WAY & 6TH STREET IMPROVEMENT PROJECT-FEDERALLY FUNDED
DETAIL SHEET
SPARKS WASHOE COUNTY NEVADA

DESIGNED BY: EM
CHECKED BY: RP
SCALE
HORIZ: N/A
VERT: N/A
JOB NO: 30058



SHEET C3.5 OF 18

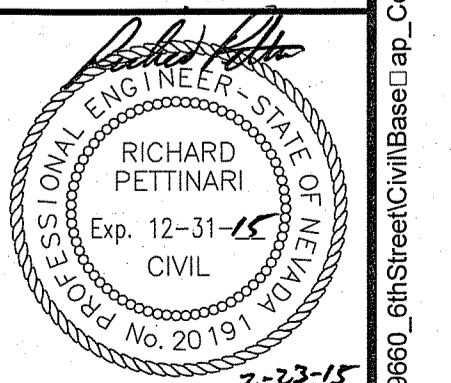
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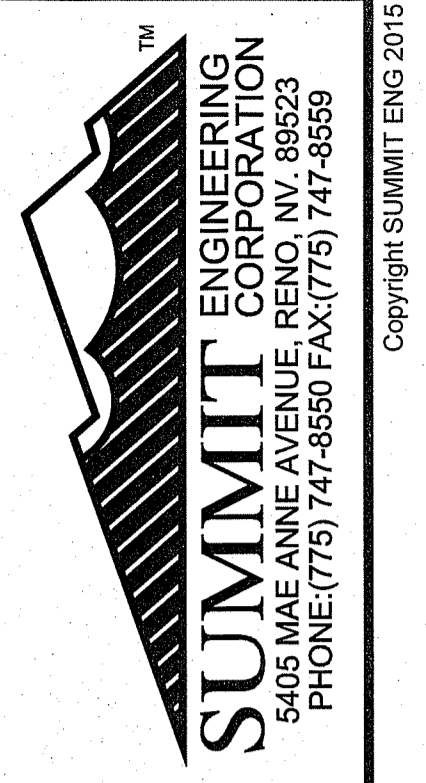
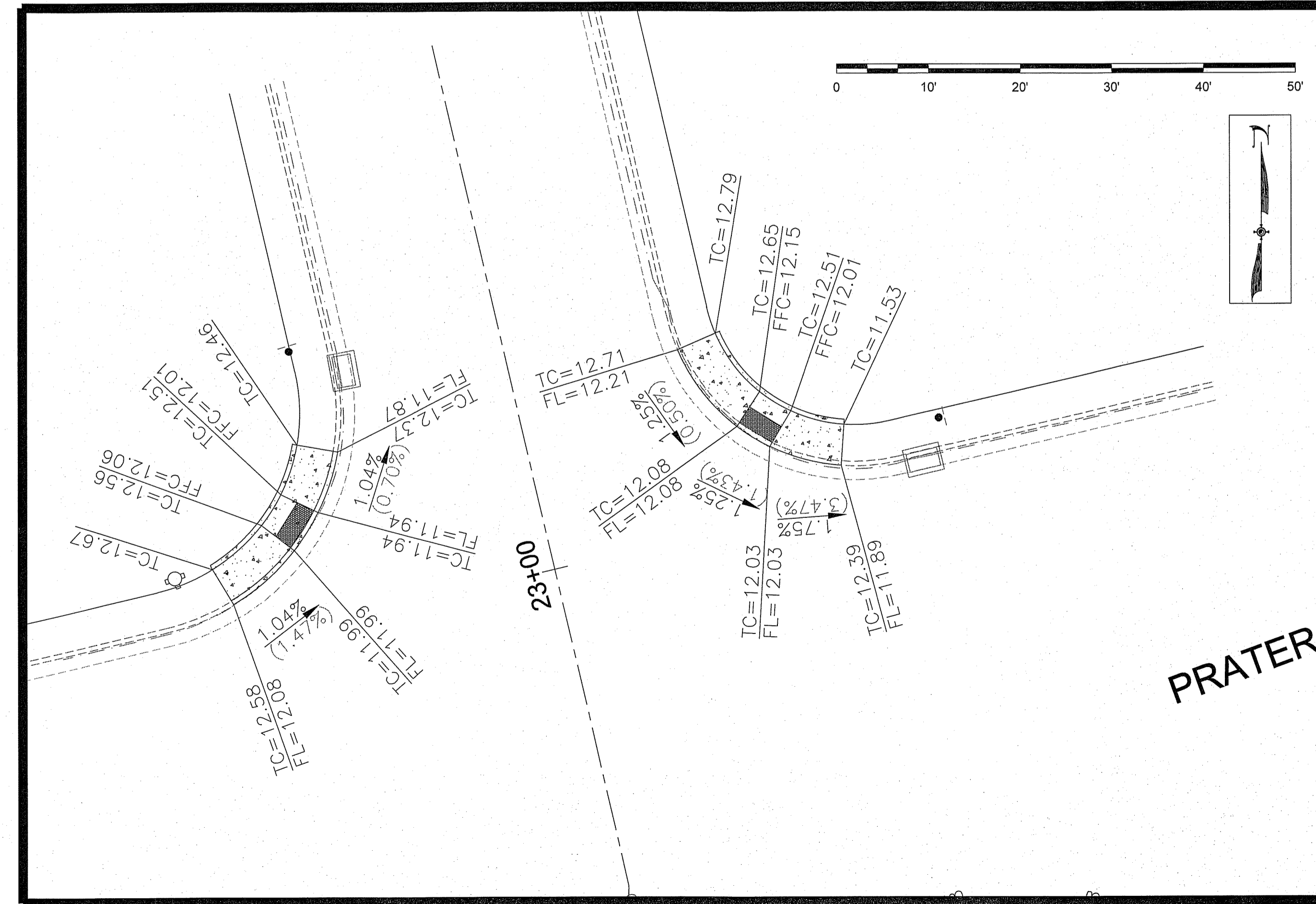
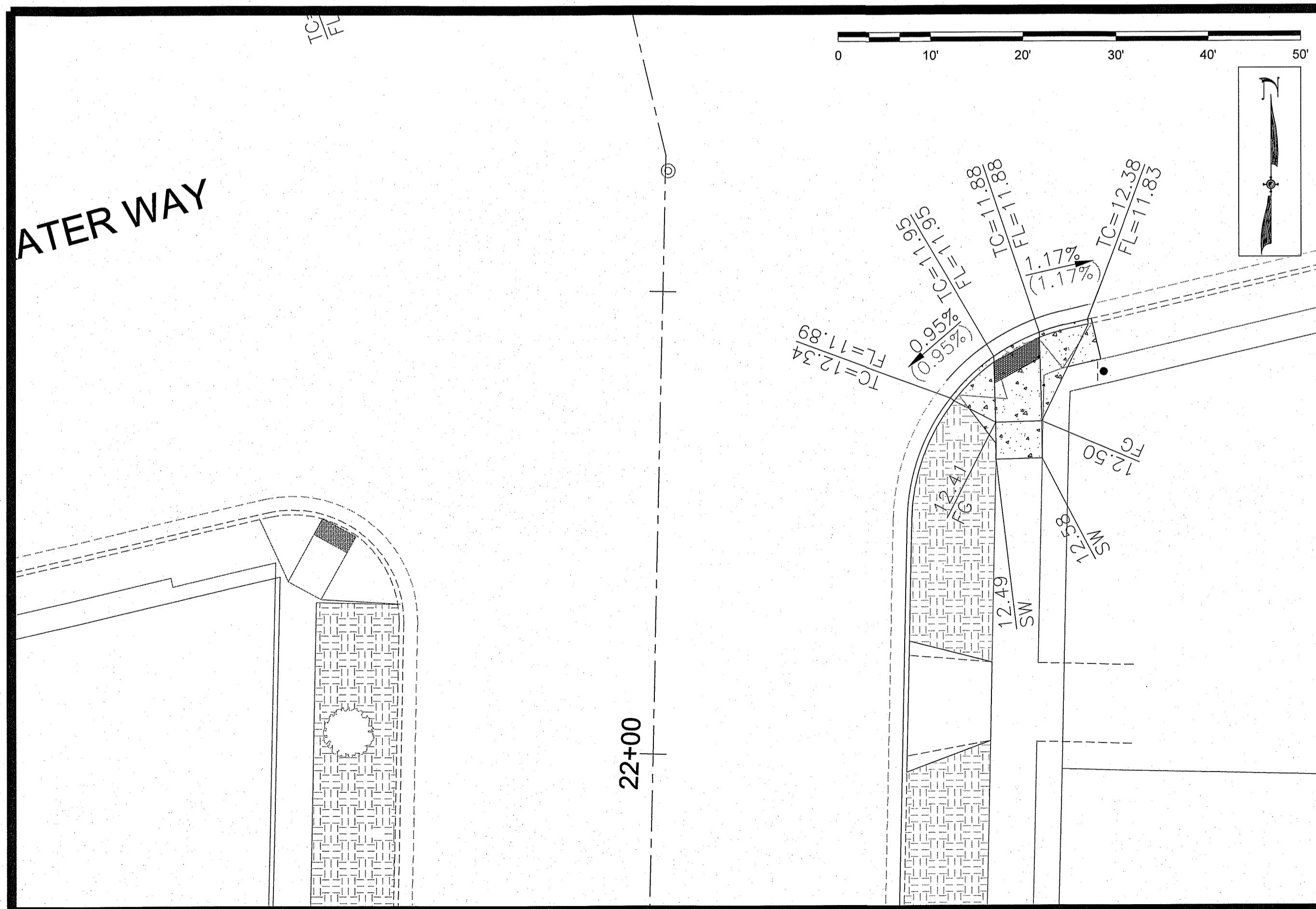
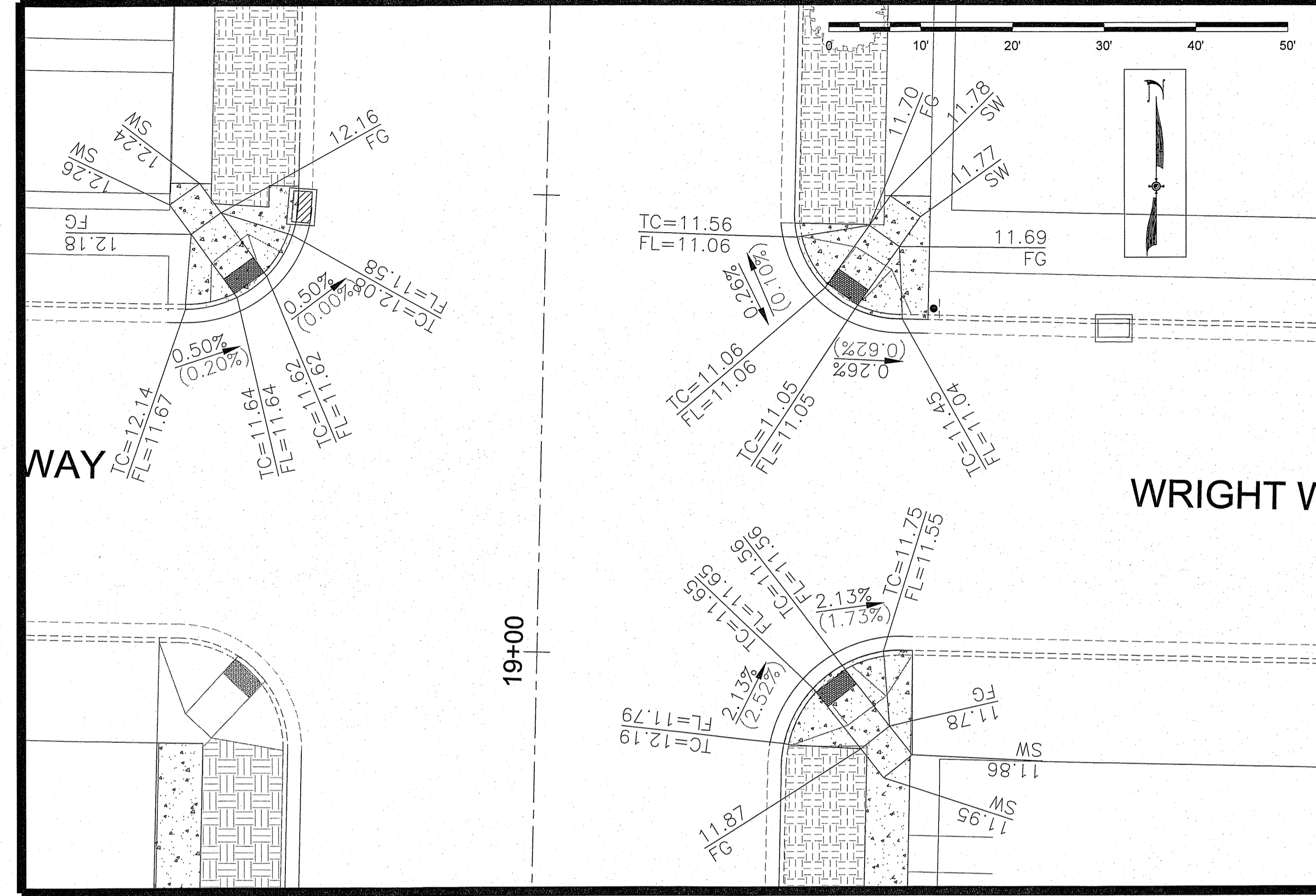
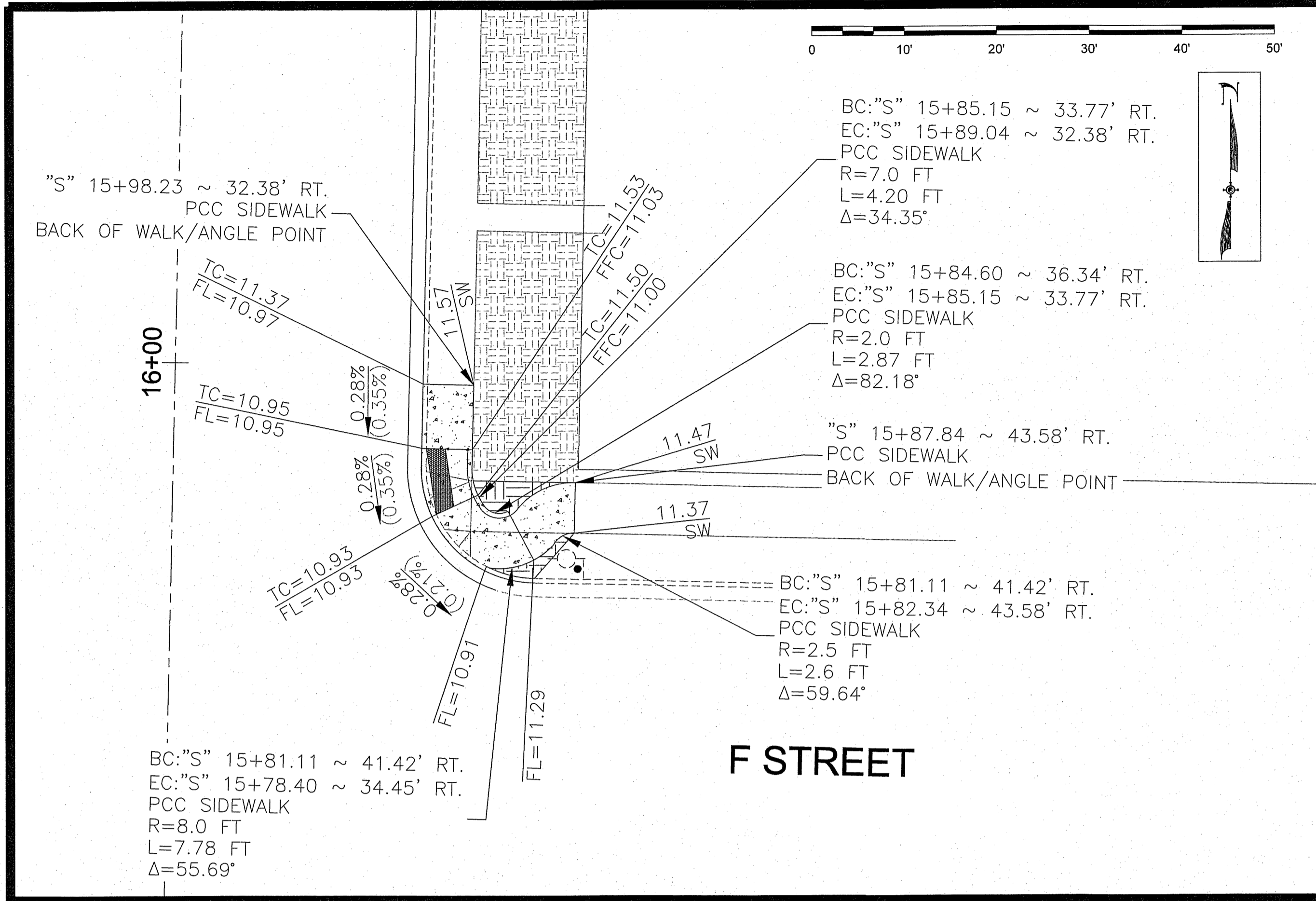


REV	DATE	DESCRIPTION	BY	APPD

CITY OF SPARKS
 MARIAN WAY & 6TH STREET IMPROVEMENT PROJECT-FEDERALLY FUNDED
DETAIL SHEET
 SPARKS WASHOE COUNTY NEVADA

DESIGNED BY:
 CHECKED BY:
 SCALE
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 VERT: N.T.S
 JOB NO: 30058





REV.	DATE	DESCRIPTION	BY	APP'D

CITY OF SPARKS
MARIAN WAY & 6TH STREET IMPROVEMENT PROJECT-FEDERALLY FUNDED
DETAIL SHEET
SPARKS WASHOE COUNTY NEVADA

DESIGNED BY:
CHECKED BY:
SCALE
HORIZ: 1"=10'
VERT: N.T.S.
JOB NO., 30058

